superior conj minimum elong	8600 May 09 14:25 8600 May 09 19:21 8600 May 13 23:29	22° 8 25'39 22° 8 46'44 0° II 12° II 46'45		morning set max. Earth dist.	8601 Apr 03 22:29 8601 Apr 14 19:50 8601 Apr 18 14:16	6° Y 54'57 23° Y 57'27 0° と	1.44249 AU
evening rise asc. node	8600 May 21 03:45 8600 May 27 05:23 8600 May 31 01:41	12°∏46'45 23°∏34'48 0°€		superior conj minimum elong	8601 Apr 20 02:41 8601 Apr 20 02:45	2° 8 27'34 2° 8 27'51	
evening max el retrograde	8600 Jun 06 16:47 8600 Jun 13 09:14	8°5946'16 12°5911'02	18°06'15	evening rise	8601 May 03 08:51 8601 May 06 12:14	24° ႘ 37'35 0°Ⅱ	
evening set inferior conj	8600 Jun 15 21:58 8600 Jun 22 15:04	11° © 41'50 6° © 45'39	2°12'41	asc. node evening max el	8601 May 14 02:27 8601 May 21 06:13	12° Д 35'32 22° Д 03'58	18°09'20
minimum elong	8600 Jun 22 18:05	6° © 38'27	2°11'40	retrograde	8601 May 27 15:29	25° Ⅲ 25′03	
min. Earth dist.	8600 Jun 25 20:36	3°542'15	0.60708 AU	evening set	8601 May 30 11:42	24° I I43'18	2055125
morning rise desc. node	8600 Jun 29 11:35 8600 Jun 30 20:09	0°\$50'40 0°\$03'00		inferior conj minimum elong	8601 Jun 05 15:09 8601 Jun 05 17:31	19° Ⅲ 28'23 19° Ⅲ 22'00	2°55'37 2°55'00
desc. node	8600 Jun 30 22:29	0 3 03 00		min. Earth dist.	8601 Jun 08 09:14	16° I I30'54	0.62914 AU
direct	8600 Jul 06 01:50	28° ∏ 41'24		morning rise	8601 Jun 11 21:43	13° Ⅱ 18'36	
	8600 Jul 11 11:48	0°9		desc. node	8601 Jun 17 17:11	10° Ⅱ 48'36	
morning max el	8600 Jul 20 09:10	6° © 39'45	27°51'17	direct	8601 Jun 18 16:02	10° Ⅱ 45'42	
	8600 Aug 06 23:47	0°Ω		morning max el	8601 Jul 02 16:25	18° Ⅱ 48'43	27°51'04
morning set asc. node	8600 Aug 22 01:51 8600 Aug 23 04:48	27° Ω 48'58 0° m 09'39			8601 Jul 12 03:03 8601 Jul 30 21:29	0 ಂ ${f U}$	
ase. Hode	8600 Aug 23 02:58	o°my o°my		morning set	8601 Aug 06 00:05	11° Ω 48'32	
max. Earth dist.	8600 Aug 28 01:52	10° Mp 40'18	1.31763 AU	asc. node	8601 Aug 10 01:46	20° £ 13′17	
				max. Earth dist.	8601 Aug 11 06:21	22° Ω 45'11	1.32371 AU
superior conj	8600 Aug 29 08:21	13° m 28'10	0°58'58				
minimum elong	8600 Aug 29 06:11	13° Mp 16'15	0°58'30	superior conj	8601 Aug 13 16:39	27° Ω 59'31	0°36'02
evening rise	8600 Sep 05 02:24 8600 Sep 05 21:44	28° Mp 16′52 0° <u>₽</u>		minimum elong	8601 Aug 13 15:04 8601 Aug 14 14:47	27° Ω 50'53 0° m)	0°35'35
	8600 Sep 03 21:44 8600 Sep 22 14:10	0°M		evening rise	8601 Aug 20 13:59	12° m 58'06	
desc. node	8600 Sep 26 18:54	5° ™ 34'12		<i>y</i> 21	8601 Aug 29 02:39	0∘ ⊽	
evening max el	8600 Oct 01 22:33	11° M 11'29	25°18'31	evening max el	8601 Sep 13 10:21	21° ≏ 33'39	23°43'17
retrograde	8600 Oct 15 20:08	18°M12'25		desc. node	8601 Sep 13 16:01	21° ≏ 47'15	
evening set	8600 Oct 21 16:41	16°M53'45	0.57462.411	retrograde	8601 Sep 27 00:48	28° £ 21'50	
min. Earth dist.	8600 Oct 26 10:26 8600 Oct 29 09:00	14°M14'16 12°M14'47	0.57463 AU -5°10'33	evening set min. Earth dist.	8601 Oct 01 12:30 8601 Oct 07 20:39	27° △ 37'48 24° △ 35'29	0.55810 AU
minimum elong	8600 Oct 29 14:18	12°M05'47		inferior conj	8601 Oct 09 22:17	23° £ 21'06	
morning rise	8600 Nov 06 14:14	8°M01'08		minimum elong	8601 Oct 09 21:11		5°36'02
direct	8600 Nov 08 23:51	7°M44'00		morning rise	8601 Oct 18 07:55	19° ≏ 26'09	
morning max el	8600 Nov 17 22:12	12°M00'20	19°01'19	direct	8601 Oct 21 03:28	19° ≏ 06'20	
asc. node	8600 Nov 19 04:29	13°M17'43		morning max el	8601 Oct 31 12:54	23° Ω 59'37	20°08'37
morning set	8600 Nov 30 01:09 8600 Dec 04 13:33	0° ҂ 8° ҂ 44'30		asc. node	8601 Nov 05 16:44 8601 Nov 06 01:28	0°M₁ 0°M₃30'25	
morning set	8000 Dec 04 15.55	0 × 44 30		morning set	8601 Nov 18 18:59	23°M20'55	
superior conj	8600 Dec 12 21:50	25° ₹ 07'21	1°15'10	<i>5 5 1 1 1 1 1 1 1 1 1 1</i>	8601 Nov 22 00:47	0° ∡ ¹	
minimum elong	8600 Dec 13 01:01	25° ∡ ¹22'35	1°14'59				
	8600 Dec 15 11:37	0°రె		superior conj	8601 Nov 26 10:45	8° ₹ 59'38	1°31'17
max. Earth dist.	8600 Dec 19 19:05	7°る53'49	1.38897 AU	minimum elong	8601 Nov 26 12:57	9° х 10'41	1°31'17
evening rise desc. node	8600 Dec 23 15:06 8600 Dec 23 17:48	14°る37'28 14°る49'03		max. Earth dist. evening rise	8601 Dec 02 01:30 8601 Dec 05 20:48	19° ₹ 58'41 27° ₹ 02'15	1.36776 AU
dese. Hode	8601 Jan 02 00:22	0°≈		evening rise	8601 Dec 07 12:24	0°පි	
	8601 Jan 23 18:08	0°) €		desc. node	8601 Dec 10 14:48	5° ರ 24'17	
evening max el	8601 Jan 27 22:24	4°) €29'05	24°34'11		8601 Dec 26 10:48	0° ≈	
retrograde	8601 Feb 08 11:09	11°) 13′33		evening max el	8602 Jan 10 11:36	18° ≈ 17'00	25°46'29
evening set	8601 Feb 13 22:58	8° \ 56'10 7° \ 48'53		retrograde	8602 Jan 22 21:55	25°≈23'44	
asc. node min. Earth dist.	8601 Feb 15 03:38 8601 Feb 18 13:16	3°) (42'39	0.67993 AU	evening set min. Earth dist.	8602 Jan 28 22:20 8602 Feb 02 05:48	22°≈55'37 18°≈16'43	0.67203 AU
inferior conj	8601 Feb 19 11:51	2° H 27'16	1°22'59	asc. node	8602 Feb 02 00:43	18°≈32'35	0.07203710
minimum elong	8601 Feb 19 10:05	2°) 33′12	1°22'27	inferior conj	8602 Feb 03 15:48	16° ≈ 29'08	0°32'12
	8601 Feb 21 09:10	30° R ≈		minimum elong	8602 Feb 03 15:00	16° ≈ 31'42	0°32'02
morning rise	8601 Feb 24 21:21	26° ≈ 27'36		morning rise	8602 Feb 09 08:09	10°≈38'04	
direct	8601 Feb 28 16:04	25°≈05'43	10055145	direct	8602 Feb 12 15:15	9°≈35'47	10050142
morning max el	8601 Mar 08 04:24 8601 Mar 08 20:36	29°≈18'50 0°) €	19°55'45	morning max el	8602 Feb 19 11:22 8602 Mar 03 22:50	13°≈20'23 0°¥	18°58'42
desc. node	8601 Mar 21 17:31	16° ¥ 58'29		greatest brilliancy	8602 Mar 05 22:30 8602 Mar 05 14:31	2° 升 30'44	-0.8m
	8601 Mar 30 10:08	0° Υ		desc. node	8602 Mar 08 14:24	7° ∺ 06'45	v - v - **

morning set	8602 Mar 14 03:35	15° ¥ 42'56		morning rise	8603 Jan 24 15:53	24° ♂ 44'55	
	8602 Mar 23 07:39	0°Υ		direct	8603 Jan 27 12:59	23° る 59'01	
max. Earth dist.	8602 Mar 28 11:58	8° Y 06'32	1.45258 AU	morning max el	8603 Feb 03 00:33	27° る 27'01	18°17'57
					8603 Feb 05 08:07	0° ≈	
superior conj	8602 Mar 30 16:49	11° Y 34'25	-2°02'10	morning set	8603 Feb 22 10:32	25° ≈ 51'17	
minimum elong	8602 Mar 30 09:51	11° Y 06'59	2°01'48	desc. node	8603 Feb 23 11:20	27° ≈ 30'45	
	8602 Apr 11 05:58	$_{0\circ}$ 8			8603 Feb 25 00:37	0° ∀	
evening rise	8602 Apr 14 15:11	5° 8 29'32					
	8602 Apr 30 04:38	$\Pi^{\circ}0$		superior conj	8603 Mar 09 21:43	20° ¥ 23′05	
asc. node	8602 Apr 30 23:32	1° Ⅱ 04'07		minimum elong	8603 Mar 09 12:11	19°) 45′42	
evening max el	8602 May 04 18:47	5° Ⅱ 33'46	18°30'47	max. Earth dist.	8603 Mar 11 07:31	22°) 35'26	1.45540 AU
retrograde	8602 May 11 06:24	9° Ⅱ 05'00			8603 Mar 16 01:15	0°Υ 1.50 00 2.5140	
evening set	8602 May 14 10:02	8° Ⅱ 09'18	201504	evening rise	8603 Mar 25 22:23	15° Y 26'49	
inferior conj	8602 May 20 03:47	2° II 36'56	3°17'24	4 41 711	8603 Apr 04 06:11	0°8	0.0
minimum elong	8602 May 20 04:53 8602 May 22 08:33	2°∏33'39 30°R ႘	3°17'08	greatest brilliancy asc. node	8603 Apr 05 20:50 8603 Apr 17 20:38	2° と 28'36 18° と 50'37	-0.8m
min. Earth dist.	8602 May 22 06:59	0° ∏ 04'33	0.64863 AU	evening max el	8603 Apr 18 04:05	19° 8 09'44	19°09'38
morning rise	8602 May 25 22:53	26° 8 20'22	0.04803 AU	retrograde	8603 Apr 25 02:29	23° 8 03'40	19 09 36
direct	8602 Jun 01 14:08	23° 8 35'24		evening set	8603 Apr 28 13:54	23 8 53'18	
desc. node	8602 Jun 04 14:11	24° 8 04'49		inferior conj	8603 May 04 01:24	16° 8 05'04	3°22'32
dese. Hode	8602 Jun 13 12:49	0°II		minimum elong	8603 May 04 01:12	16° 8 05'41	3°22'23
morning max el	8602 Jun 15 02:22	1° I I31'30	27°15'56	min. Earth dist.	8603 May 05 13:14	14° 8 09'51	0.66420 AU
	8602 Jul 06 06:45	0°95	_,	morning rise	8603 May 09 12:06	9° 8 46'36	***************************************
morning set	8602 Jul 20 13:20	25°519'18		direct	8603 May 15 18:53	7° 8 01'35	
	8602 Jul 22 22:14	$0^{\circ}\Omega$		desc. node	8603 May 22 11:10	9° 8 26'39	
max. Earth dist.	8602 Jul 25 02:35	4° Ω 25'17	1.33467 AU	morning max el	8603 May 28 12:47	14° 8 37'30	26°13'06
asc. node	8602 Jul 27 22:46	10° Ω 19'30			8603 Jun 10 01:51	$\Pi^{\circ}0$	
					8603 Jun 29 01:39	0 \circ \odot	
superior conj	8602 Jul 28 20:15	12° Ω 12'51	0°09'02	morning set	8603 Jul 03 14:05	8° © 11'45	
minimum elong	8602 Jul 28 19:47	12° Ω 10′27	0°08'47	max. Earth dist.	8603 Jul 07 12:25	15° 5 40'50	1.35045 AU
behind sun begin	8602 Jul 28 15:07	11° Ω 45'43					
behind sun end	8602 Jul 29 00:28	12° Ω 35'13		superior conj	8603 Jul 12 16:40	26° © 01'16	
evening rise	8602 Aug 05 01:01	27° Ω 34'27		minimum elong	8603 Jul 12 17:53	26° © 07'32	0°21'07
	8602 Aug 06 04:44	0° m p		asc. node	8603 Jul 14 19:46	0° Ω 24'11	
	8602 Aug 24 06:32	0∘ ⊽			8603 Jul 14 15:05	0°N	
evening max el	8602 Aug 25 23:50	1° £ 47'34	22°04'32	evening rise	8603 Jul 20 09:30	11° Ω 59'39	
desc. node	8602 Aug 31 13:08	6° £ 06'01			8603 Jul 29 18:46	0° m/y	2002/152
retrograde	8602 Sep 07 17:26	8° £ 07'31		evening max el	8603 Aug 07 23:13	12° Mp 26'27	20°36'53
evening set	8602 Sep 10 17:56	7° Ω 47'15	0.54833 AU	desc. node	8603 Aug 18 10:15 8603 Aug 19 05:36	17° Mp 59'32	
min. Earth dist. inferior conj	8602 Sep 19 04:49 8602 Sep 19 19:34	3° £ 46'18		retrograde evening set	8603 Aug 21 07:28	18° Mp 01'11 17° Mp 50'36	
minimum elong	8602 Sep 19 11:26	3° ⊆ 4018		inferior conj	8603 Aug 30 12:13	17 my 50 30 13° my 53'38	_3°32'57
morning rise	8602 Sep 28 06:27	29° m 58'21	4 37 17	minimum elong	8603 Aug 30 03:08	14° Mp 06'41	
morning rise	8602 Sep 28 03:47	30°R, M)		min. Earth dist.	8603 Aug 31 13:57	13° Mp 16'37	0.54759 AU
direct	8602 Oct 01 16:02	29° m/32'44		morning rise	8603 Sep 07 22:32	9° m 52'23	0.0 1707 110
	8602 Oct 05 01:48	0∘ ⊽		direct	8603 Sep 12 00:27	9° m 16'45	
morning max el	8602 Oct 13 14:31	5° £ 09'51	21°37'17	morning max el	8603 Sep 25 06:07	15° m/39'25	23°20'48
asc. node	8602 Oct 23 22:28	18° ≏ 35'44			8603 Oct 06 12:27	0 o $\overline{\mathbf{v}}$	
	8602 Oct 30 04:46	0° M ₊		asc. node	8603 Oct 10 19:27	7° ≏ 20'19	
morning set	8602 Nov 03 04:28	8°ML07'32		morning set	8603 Oct 18 15:55	22° ≏ 57'21	
					8603 Oct 21 22:39	0° M	
superior conj	8602 Nov 10 09:30	23°M19'43					
minimum elong	8602 Nov 10 10:24	23°M24'25	1°39'41	superior conj	8603 Oct 25 14:51		
	8602 Nov 13 15:10	0° ∡		minimum elong	8603 Oct 25 14:30	7° M 55'14	
max. Earth dist.	8602 Nov 14 13:34	1° ≯ 53′08	1.34902 AU	max. Earth dist.	8603 Oct 28 09:36	13°M53'03	1.33404 AU
evening rise	8602 Nov 18 19:29	10° 🖈 12'16		evening rise	8603 Nov 02 07:12	23°M56'22	
desc. node	8602 Nov 27 11:52	25° ⊀ '48'18			8603 Nov 05 09:55	0° ⊀ ⁷	
	8602 Nov 30 00:33	5°00		desc. node	8603 Nov 14 08:57	15°矛54'26 0°る	
evening max el	8602 Dec 22 01:07 8602 Dec 24 01:01	0°≈ 2°≈00'22	26°44'14	evening max el	8603 Nov 23 14:46 8603 Dec 06 13:46	0°る 15° る 28'00	27°20'23
retrograde	8603 Jan 06 03:10	2°≈00°22 9°≈18'12	40 44 14	retrograde	8603 Dec 20 02:20	13° る 28'00 22° る 48'25	21 20 23
evening set	8603 Jan 12 15:23	9 ≈1812 6°≈43'25		evening set	8603 Dec 26 23:51	22 3 48 23 20° る 13'12	
min. Earth dist.	8603 Jan 16 16:45	2°≈39'10	0.66048 AU	min. Earth dist.	8603 Dec 30 19:53	20 ප 1312 16° පි 42'20	0.64539 AU
inferior conj	8603 Jan 18 14:25	0°≈24'58		inferior conj	8604 Jan 02 05:14	14°る08'40	
minimum elong	8603 Jan 18 15:09	0°≈22'48	0°25'47	minimum elong	8604 Jan 02 08:03		
3	8603 Jan 18 22:54	30°Ŗ₹		asc. node	8604 Jan 06 18:52	9° る 50'34	
asc. node	8603 Jan 19 21:47	28° る 54'06		morning rise	8604 Jan 08 17:49	8° ප 42'29	
				=			

direct	8604 Jan 11 06:49	8° る 09'15		morning rise	8604 Dec 22 10:30	22° ×7 24'05	
morning max el	8604 Jan 17 17:20	11° る 31'30	17°54'10	asc. node	8604 Dec 23 15:55	22°×2'05'06	
	8604 Jan 30 12:17	0° ≈	-, -, -, -, -, -, -, -, -, -, -, -, -, -	direct	8604 Dec 24 17:44	21° × 759'43	
morning set	8604 Feb 03 22:42	7°≈25'44		morning max el	8604 Dec 31 10:37	25° ₹ 25'41	17°47'54
desc. node	8604 Feb 10 08:18	18° ≈ 05'27		Ü	8605 Jan 04 06:25	0°ಕ	
				morning set	8605 Jan 16 10:51	20° ろ 09'05	
superior conj	8604 Feb 17 12:43	29° ≈ 46'14	-0°50'36		8605 Jan 22 01:50	0° ≈	
minimum elong	8604 Feb 17 06:56	29° ≈ 23'03	0°49'41	desc. node	8605 Jan 27 05:14	8° ≈ 46'48	
	8604 Feb 17 16:09	0°) €					
max. Earth dist.	8604 Feb 22 03:09	7° ₩ 05'09	1.45072 AU	superior conj	8605 Jan 28 02:49	10° ≈ 17'18	-0°06'38
evening rise	8604 Mar 04 13:05	24°) 49′58		minimum elong	8605 Jan 28 02:10	10° ≈ 14'34	0°06'22
	8604 Mar 07 22:04	0 ° $\mathbf{\Upsilon}$		behind sun begin	8605 Jan 27 17:44	9° ≈ 39'18	
greatest brilliancy	8604 Mar 19 09:12	17° Y 12'33	-0.6m	behind sun end	8605 Jan 28 10:35	10° ≈ 49'46	
	8604 Mar 28 19:38	9° 8		max. Earth dist.	8605 Feb 03 19:55	21° ≈ 17'52	1.43920 AU
evening max el	8604 Mar 31 08:22	2° 8 48'07	20°04'19		8605 Feb 09 07:36	0° ∀	
asc. node	8604 Apr 03 17:44	5° 8 42'37		evening rise	8605 Feb 12 01:04	4°) 14'32	
retrograde	8604 Apr 08 00:54	7° 8 15'12			8605 Mar 01 08:27	0° Υ	
evening set	8604 Apr 11 20:51	5° 8 49'50		evening max el	8605 Mar 14 07:05	16° Y 27′25	21°12'06
inferior conj	8604 Apr 17 05:01	29° Y 47'37	3°14'23	asc. node	8605 Mar 21 14:50	21° Y ′24'58	
minimum elong	8604 Apr 17 03:46	29° Y 51'49	3°14'09	retrograde	8605 Mar 22 23:18	21° Y '34'16	
	8604 Apr 17 01:21	30°RƳ		evening set	8605 Mar 27 04:58	19° Y 53'46	
min. Earth dist.	8604 Apr 18 02:22	28° Υ 35'21	0.67537 AU	inferior conj	8605 Apr 01 12:11	13° Y 39'57	2°55'09
morning rise	8604 Apr 22 10:27	23°Υ30'18		minimum elong	8605 Apr 01 10:15	13° Y 46'42	2°54'44
direct	8604 Apr 28 05:29	20°Υ55'12		min. Earth dist.	8605 Apr 01 20:16	13° Y 11'56	0.68213 AU
desc. node	8604 May 08 08:09	26°Υ23'06	24051150	morning rise	8605 Apr 06 15:18	7° Υ 25'42	
morning max el	8604 May 09 22:23	27° Y 56′14	24°51'58	direct	8605 Apr 11 20:54	5° Υ 07'41	22022122
	8604 May 11 21:15	0°B 8°0		morning max el	8605 Apr 22 07:43	11° Υ 21'02 14° Υ 27'47	23°22'33
marning got	8604 Jun 02 18:38 8604 Jun 14 21:48	0°Ⅲ 20°Ⅲ14'05		desc. node	8605 Apr 25 05:05 8605 May 07 04:06	0° 8	
morning set max. Earth dist.	8604 Jun 18 12:36	26° I I45'46	1.37029 AU			0°U	
max. Earm dist.	8604 Jun 20 06:29	20 п 43 40	1.57029 AU	morning set	8605 May 26 13:58 8605 May 27 06:50	0 П 1°П10'43	
	3004 Juli 20 00.29	0 3		max. Earth dist.	8605 May 31 08:20	8° Д 08'00	1.39258 AU
superior conj	8604 Jun 25 02:52	9° © 17'03	-0°53'08	max. Earth dist.	6003 Way 31 06.20	о доооо	1.39238 AU
minimum elong	8604 Jun 25 06:09	9° © 33'08	0°52'45	superior conj	8605 Jun 07 22:57	21° I I50'06	-1°24'31
asc. node	8604 Jun 30 16:47	20° © 23'33	0 32 43	minimum elong	8605 Jun 08 04:10	22° I 14'22	
evening rise	8604 Jul 03 13:03	26°907'09		minimum crong	8605 Jun 12 06:45	0°95	1 23 37
	8604 Jul 05 11:46	0°N		evening rise	8605 Jun 17 08:41	9° 5 48'08	
evening max el	8604 Jul 20 12:02	23° Ω 49'23	19°28'12	asc. node	8605 Jun 17 13:47	10°9512'47	
retrograde	8604 Jul 30 01:32	28° Ω 32'55			8605 Jun 28 17:31	$0^{\circ}\Omega$	
evening set	8604 Jul 31 21:54	28° Ω 23'05		evening max el	8605 Jul 03 12:30	5° Ω 55'38	18°40'28
desc. node	8604 Aug 04 07:21	27° Ω 18'46		retrograde	8605 Jul 11 14:17	9° Ω 56'16	
inferior conj	8604 Aug 09 14:58	24° Ω 17′00	-1°37'55	evening set	8605 Jul 13 15:18	9° Ω 41'46	
minimum elong	8604 Aug 09 10:33	24° Ω 24'06	1°36'21	inferior conj	8605 Jul 21 13:18	5° Ω 17'49	0°11'24
min. Earth dist.	8604 Aug 12 02:23	22° Ω 41'44	0.55636 AU	minimum elong	8605 Jul 21 13:44	5° Ω 17'01	0°11'04
morning rise	8604 Aug 17 20:38	19° Ω 43'52		transit middle	8605 Jul 21 13:44	5° Ω 17'01	0°11'04
direct	8604 Aug 22 17:50	18° Ω 50'07		transit begin	8605 Jul 21 11:04	5° Ω 21'59	
morning max el	8604 Sep 05 18:31	25° Ω 52'53	25°05'33	transit end	8605 Jul 21 16:23	5° Ω 12'01	
	8604 Sep 09 16:14	0° m		desc. node	8605 Jul 22 04:26	4° Ω 49'20	
asc. node	8604 Sep 26 16:26	26° Mp 34'24		min. Earth dist.	8605 Jul 24 19:17	2° Ω 52'43	0.57292 AU
	8604 Sep 28 09:57	0∘ ⊽		morning rise	8605 Jul 29 08:39	0° Ω 07'37	
morning set	8604 Oct 02 03:36	7° ≏ 45'21			8605 Jul 29 15:22	30°ષ્દ્	
			100 (10 (direct	8605 Aug 04 01:50	28°5546'39	
superior conj	8604 Oct 09 00:19		1°36'06		8605 Aug 09 14:20	0°N	2 < 22 41 42
minimum elong	8604 Oct 08 22:57	22° Ω 36'48	1°36'05	morning max el	8605 Aug 18 09:58		26°34'42
max. Earth dist.	8604 Oct 10 13:05		1.32352 AU	1	8605 Sep 04 22:06	0° Mp	
	8604 Oct 12 08:22	0°M		asc. node	8605 Sep 13 13:23	16° Mp 09'53	
evening rise	8604 Oct 16 04:34	8°M.05'50 0°⊀		morning set	8605 Sep. 20, 01:38	22°Mp26'41 0° ⊆	
desc. node	8604 Oct 27 20:21 8604 Oct 31 06:02	0°×' 5° <i>×</i> 735'01			8605 Sep 20 01:38	0 ==	
evening max el	8604 Nov 18 00:07	28° × 27'47	27°28'27	superior conj	8605 Sep 23 11:49	7° £ 34'37	1°25'42
evening max ei	8604 Nov 19 16:52	28° x ·2/4/	41 40 41	minimum elong	8605 Sep 23 11:49 8605 Sep 23 09:47	7° £ 34'37 7° £ 23'25	1°25'42 1°25'29
retrograde	8604 Dec 01 18:48	5° る 44'58		max. Earth dist.	8605 Sep 23 21:36	7 = 23 23 8° £ 28'57	1.31760 AU
evening set	8604 Dec 08 20:51	3°ප18'14		evening rise	8605 Sep 30 08:46	22° £ 32'57	1.51700 AU
min. Earth dist.	8604 Dec 12 13:27	0° ප 16'31	0.62718 AU	2. J	8605 Oct 03 23:50	0°M	
Zurur dist.	8604 Dec 12 13:27	30°R. ✓	3.02/10/10	desc. node	8605 Oct 18 03:08	24°M40'00	
inferior conj	8604 Dec 15 09:27	27° ₹ 33'23	-2°41'26		8605 Oct 21 21:19	0° ₹	
minimum elong	8604 Dec 15 14:36	27° ₹ 20'59		evening max el	8605 Oct 31 05:50	10° х 48′06	27°03'42
			-	<i>5</i> 4 -			

evening rise	8609 Jul 29 02:16	21° Ω 03'38			8610 Jul 10 18:10	$0^{\circ}\Omega$	
evening rise	8609 Aug 02 11:19	0°m		evening rise	8610 Jul 13 08:55	5° Ω 22'00	
ovening may al	8609 Aug 02 11:19 8609 Aug 17 22:39	~	21°25'13	evening rise	8610 Jul 13 08:33 8610 Jul 27 06:32	0°Mp	
evening max el desc. node	8609 Aug 25 15:34	23° m 33'39 28° m 47'24	21 23 13	avaning may al	8610 Jul 31 03:51		20°05'10
	8609 Aug 30 03:05	-		evening max el	8610 Aug 10 16:32	9° Mg 43'09	20 03 10
retrograde	8609 Sep 01 15:24	29° Mp 36'05		retrograde	-	9°My33'38	
evening set		29° Mp 21'36	4920150	evening set	8610 Aug 12 14:24		
inferior conj	8609 Sep 10 20:23	25° m 24'07		desc. node	8610 Aug 12 12:38	9° Mp 34'20	2045110
minimum elong	8609 Sep 10 10:55	25° m 37'24	4°26'38	inferior conj	8610 Aug 21 15:42	5° mp 34'41 -	
min. Earth dist.	8609 Sep 10 23:06	25° m/20'19	0.54681 AU	minimum elong	8610 Aug 21 08:14	~	2°42'44
morning rise	8609 Sep 19 07:14	21° m 32'42		min. Earth dist.	8610 Aug 23 09:30	•	0.55025 AU
direct	8609 Sep 22 23:16	21° m 03'33		morning rise	8610 Aug 30 00:42	1° m/21'33	
morning max el	8609 Oct 05 12:39	27° mp 01'06	22°20'13	direct	8610 Sep 03 10:51	0° т 39'05	
	8609 Oct 08 10:02	0∘ ⊽		morning max el	8610 Sep 17 01:48	~	24°06'11
asc. node	8609 Oct 18 00:56	13° ≏ 48'49			8610 Oct 03 09:36	0∘ ত	
	8609 Oct 26 10:17	0°M₊		asc. node	8610 Oct 04 21:54	2° ≏ 47'25	
morning set	8609 Oct 27 06:23	1° M 45'17		morning set	8610 Oct 11 18:07	16° ≏ 35'07	
					8610 Oct 17 22:31	0°M	
superior conj	8609 Nov 03 08:20	16°M50'57	1°40'56				
minimum elong	8609 Nov 03 08:41	16° ™ 52'48	1°41'04	superior conj	8610 Oct 18 15:42	1°M33'34	1°39'36
max. Earth dist.	8609 Nov 06 21:35	24°M16'12	1.34207 AU	minimum elong	8610 Oct 18 14:53	1°M29'07	1°39'39
	8609 Nov 09 17:37	0° ∡ ¹		max. Earth dist.	8610 Oct 20 21:07	6°M22'06	1.32901 AU
evening rise	8609 Nov 11 10:02	3° ∡ 18'35		evening rise	8610 Oct 26 02:16	17° M 15'08	
desc. node	8609 Nov 21 14:18	21° ∡ ¹42'48			8610 Nov 01 17:15	0° ∡ ¹	
	8609 Nov 26 17:43	0°ප		desc. node	8610 Nov 08 11:23	11° ∡ ³39'28	
evening max el	8609 Dec 16 07:13	25° පි 05'46	27°02'49		8610 Nov 21 04:55	0°ප	
-	8609 Dec 22 09:40	0° ≈		evening max el	8610 Nov 28 19:29	8° る 24'25	27°27'45
retrograde	8609 Dec 29 14:50	2° ≈ 26'19		retrograde	8610 Dec 12 11:09	15° る 43'25	
evening set	8610 Jan 05 07:14	29° る 50'35		evening set	8610 Dec 19 11:11	13° る 11'00	
	8610 Jan 05 02:21	30°Rる		min. Earth dist.	8610 Dec 23 05:34		0.63795 AU
min. Earth dist.	8610 Jan 09 06:11	26° පි 00'36	0.65437 AU	inferior conj	8610 Dec 25 19:32	7°る14'13 -	
inferior conj	8610 Jan 11 08:50	23° ප 37'01		minimum elong	8610 Dec 25 23:20		1°59'03
minimum elong	8610 Jan 11 10:23	23° る 32'36	0°52'22	asc. node	8610 Dec 31 21:21	7 3 0420 2° 3 12'11	1 37 03
asc. node	8610 Jan 14 00:18	20° ප් 45'55	0 32 22	morning rise	8611 Jan 01 13:16	1°る54'29	
morning rise	8610 Jan 17 14:49	18°る02'22		direct	8611 Jan 03 23:32	1°る25'23	
direct	8610 Jan 20 08:06	18 302 22 17° 3 22'25			8611 Jan 10 11:48		17°49'18
			10005142	morning max el		4° ≈ 03'45	1/4916
morning max el	8610 Jan 26 18:29	20°₹47'09	18°05'42	morning set	8611 Jan 27 02:11		
	8610 Feb 02 21:56	0°≈		1 1	8611 Jan 27 01:18	0° ≈	
morning set	8610 Feb 14 02:55	17°≈56'41		desc. node	8611 Feb 04 10:42	14° ≈ 12′26	
desc. node	8610 Feb 17 13:43	23°≈34'05			0611 7 1 00 10 76	210 25116	0021120
	8610 Feb 21 13:13	0°)		superior conj	8611 Feb 08 19:56	21°≈25'46 -	
				minimum elong	8611 Feb 08 16:27	21°≈11'33	0°31'00
superior conj	8610 Feb 28 20:03	11° ∺ 35'57			8611 Feb 14 03:43	0° ∀	
minimum elong	8610 Feb 28 11:34	11° ∺ 02′29		max. Earth dist.	8611 Feb 14 11:26		1.44667 AU
max. Earth dist.	8610 Mar 03 16:23		1.45430 AU	evening rise	8611 Feb 24 11:47	16° ∺ 08'04	
	8610 Mar 12 14:43	0° Υ			8611 Mar 05 15:26	0° Υ	
evening rise	8610 Mar 17 00:05	6° Ƴ 48'18		evening max el	8611 Mar 24 19:35		20°31'44
greatest brilliancy	8610 Mar 29 22:18	26° Ƴ 37′05	-0.7m	asc. node	8611 Mar 29 20:13	29° Ƴ 52'43	
	8610 Apr 01 05:12	0°8			8611 Mar 30 02:22	0°8	
evening max el	8610 Apr 10 17:33	12° 8 17'25	19°31'08	retrograde	8611 Apr 01 21:24	0° 8 39'43	
asc. node	8610 Apr 11 23:08	13° 8 28'06			8611 Apr 04 12:49	30° ₹Ƴ	
retrograde	8610 Apr 17 22:52	16° 8 24'11		evening set	8611 Apr 05 21:26	29° Y 07'49	
evening set	8610 Apr 21 13:47	15° 8 07'34		inferior conj	8611 Apr 11 04:57	23° Y 00′29	3°07'25
inferior conj	8610 Apr 26 23:34	9° 8 13'26	3°20'29	minimum elong	8611 Apr 11 03:22	23° Y 05′55	3°07'07
minimum elong	8610 Apr 26 22:54	9° 8 15'39	3°20'20	min. Earth dist.	8611 Apr 11 20:30	22° Ƴ 07'10	0.67890 AU
min. Earth dist.	8610 Apr 28 05:12	7° 8 35'49	0.66957 AU	morning rise	8611 Apr 16 09:05	16° Ƴ 44'31	
morning rise	8610 May 02 07:40	2° 8 55'12		direct	8611 Apr 21 22:37	14° Y 16'00	
direct	8610 May 08 09:53	0° 8 13'01		morning max el	8611 May 03 02:49	20° Ƴ 57′00	24°14'14
desc. node	8610 May 16 13:32	3° 8 48'23		desc. node	8611 May 03 10:30	21° Y 16'37	
morning max el	8610 May 20 17:42	7° 8 35'48	25°40'03		8611 May 10 21:51	0°8	
-	8610 Jun 07 04:38	$\Pi^{\circ}0$			8611 May 31 10:06	$\Pi^{\circ}0$	
	8610 Jun 25 10:28	0ಂತಾ		morning set	8611 Jun 07 19:11	12° Ⅲ 21′22	
				max. Earth dist.	8611 Jun 11 11:26		1.37969 AU
morning set	8610 Jun 25 20:29	0°9545'34		max. Laith dist.	0011 Juli 11 11.20	10 1130 40	1.57707 AU
morning set max. Earth dist.		0° © 45'34 7° © 41'19	1.35848 AU	max. Larur dist.	8611 Jun 17 12:21	0°95	1.57707 AO
•	8610 Jun 25 20:29		1.35848 AU	max. Latin dist.			1.57707 AO
•	8610 Jun 25 20:29			superior conj			
max. Earth dist.	8610 Jun 25 20:29 8610 Jun 29 13:48	7° 5 41'19	-0°34'39		8611 Jun 17 12:21	0°9	-1°06'43
max. Earth dist.	8610 Jun 25 20:29 8610 Jun 29 13:48 8610 Jul 05 09:24	7°541'19 19°503'47	-0°34'39	superior conj	8611 Jun 17 12:21 8611 Jun 18 14:07	0°© 2°©02'52 -	-1°06'43

evening rise	8611 Jun 27 09:29	19° © 19'25			8612 Jun 08 13:27	0° ©	
e vennig 1150	8611 Jul 02 22:27	0°N		evening rise	8612 Jun 10 00:48	2° 5 47'49	
evening max el	8611 Jul 13 21:59	16° Ω 13'06	19°05'17	asc. node	8612 Jun 11 16:14	5°\$54'25	
retrograde	8611 Jul 22 18:56	20° Ω 36'44		evening max el	8612 Jun 26 02:16	28° © 35'39	18°26'17
evening set	8611 Jul 24 16:45	20° Ω 25'22		Ü	8612 Jun 27 16:13	$0^{\circ}\Omega$	
desc. node	8611 Jul 30 09:44	17° Ω 57'45		retrograde	8612 Jul 03 16:16	2° Ω 23'02	
inferior conj	8611 Aug 02 02:02	16° Ω 12'01	-0°49'16	evening set	8612 Jul 05 20:14	2° Ω 05'21	
minimum elong	8611 Aug 01 23:54	16° Ω 15'39	0°48'35	C	8612 Jul 10 03:11	30° ℝ	
min. Earth dist.	8611 Aug 04 23:15	14° Ω 14'10	0.56263 AU	inferior conj	8612 Jul 13 09:46	27° © 32'22	0°50'53
morning rise	8611 Aug 10 04:01	11° Ω 23'22		minimum elong	8612 Jul 13 11:31	27°528'52	0°50'04
direct	8611 Aug 15 10:00	10° Ω 19'10		desc. node	8612 Jul 16 06:48	25°514'03	
morning max el	8611 Aug 29 14:44	17° Ω 34'50	25°46'29	min. Earth dist.	8612 Jul 16 18:33	24° © 51'26	0.58155 AU
	8611 Sep 08 21:13	0° m p		morning rise	8612 Jul 20 23:20	22° 5 07'31	
asc. node	8611 Sep 21 18:51	22° Mp 11'43		direct	8612 Jul 26 23:36	20°533'40	
	8611 Sep 25 14:07	0∘ ত		morning max el	8612 Aug 10 09:01	28° © 14'45	27°04'17
morning set	8611 Sep 26 05:23	1° ≏ 21'03			8612 Aug 12 02:26	$0^{\circ}\Omega$	
					8612 Sep 01 13:27	0° mp	
superior conj	8611 Oct 03 02:13	16° £ 22'42	1°32'21	asc. node	8612 Sep 07 15:49	11° m 54'39	
minimum elong	8611 Oct 03 00:32	16° ≙ 13′22	1°32'15	morning set	8612 Sep 09 14:34	15° m 58'30	
max. Earth dist.	8611 Oct 04 03:21	18° ≏ 41'21	1.32046 AU		8612 Sep 16 00:55	0∘ ত	
	8611 Oct 09 09:03	0° M					
evening rise	8611 Oct 10 02:50	1°M33'03		superior conj	8612 Sep 16 13:59	1° ≏ 12'34	1°19'42
	8611 Oct 25 15:25	0° ∡ ¹		minimum elong	8612 Sep 16 11:49	1° ≏ 00'30	1°19'24
desc. node	8611 Oct 26 08:26	1° ₰ 06'27		max. Earth dist.	8612 Sep 16 13:03	1° ≏ 07'23	1.31649 AU
evening max el	8611 Nov 11 04:13	21° ₰ 08'54	27°22'06	evening rise	8612 Sep 23 09:11	16° ≏ 05'19	
retrograde	8611 Nov 25 00:03	28° ₰ 22'41			8612 Sep 30 07:00	0° M	
evening set	8611 Dec 02 02:09	26° ₰ 02'46		desc. node	8612 Oct 12 05:31	19°M52'09	
min. Earth dist.	8611 Dec 05 18:32		0.61876 AU		8612 Oct 20 05:15	0° ∡ ¹	
inferior conj	8611 Dec 08 18:13	20° ≯ 28'16		evening max el	8612 Oct 23 06:47	3° ∡ 07'39	26°42'37
minimum elong	8611 Dec 09 00:18	20° ≯ 14′24	3°09'11	retrograde	8612 Nov 06 04:45	10° ∡ 15'48	
morning rise	8611 Dec 16 00:41	15° ₹ 27'00		evening set	8612 Nov 13 00:01	8° ∡ 19'07	
direct	8611 Dec 18 06:32	15° ₹ 05'10		min. Earth dist.	8612 Nov 16 20:43	5° ∡ 142'58	0.59793 AU
asc. node	8611 Dec 18 18:23	15° ∡ 06'15		inferior conj	8612 Nov 20 01:28	3° ∡ 10′20	
morning max el	8611 Dec 25 04:12		17°50'52	minimum elong	8612 Nov 20 08:51	2° ∡ 755'35	4°17'19
	8612 Jan 02 10:39	0°る			8612 Nov 24 10:55	30°RM₁	
morning set	8612 Jan 09 22:30	13° る 10'23		morning rise	8612 Nov 27 20:09	28°M30'35	
	8612 Jan 19 10:27	0° ≈		direct	8612 Nov 30 01:00	28°M12'45	
	0.612 1 20 21 00	2020121	0010142	asc. node	8612 Dec 04 15:24	29°M34'58	
superior conj	8612 Jan 20 21:00	2°≈28'21			8612 Dec 05 07:03	0° 🗖 10. ₹50140	10011125
minimum elong behind sun begin	8612 Jan 20 21:59 8612 Jan 20 15:32	2°≈32'35 2°≈04'57	0-10-42	morning max el morning set	8612 Dec 07 16:20 8612 Dec 23 09:50	1° ₹ 58'48 26° ₹ 58'32	18°11'35
behind sun end	8612 Jan 21 04:27	2 ≈04 37 3°≈00'09		morning set	8612 Dec 25 00:19	20 x 38 32 0°る	
desc. node	8612 Jan 22 07:39	3 ≈00 09 4°≈55'42			8012 Dec 23 00.19	0.0	
max. Earth dist.	8612 Jan 28 03:03	14°≈34'12	1.43255 AU	superior conj	8613 Jan 01 22:13	14° る 39'40	0°45'48
evening rise	8612 Feb 04 03:24	25°≈45'10	1.43233 AO	minimum elong	8613 Jan 02 01:18	14° る 53'37	0°45'33
e vennig rise	8612 Feb 06 21:09	0° ∀		desc. node	8613 Jan 08 04:35	25° る 40'23	0 13 33
	8612 Feb 27 14:14	0° Υ		max. Earth dist.	8613 Jan 09 13:25	27° る 59'55	1.41363 AU
evening max el	8612 Mar 06 16:05	9° Υ 37'22	21°43'51	man. Bartin digt.	8613 Jan 10 17:59	0°≈	1.11505110
retrograde	8612 Mar 15 19:17	15° Y 01'47		evening rise	8613 Jan 14 11:30	6°≈08'44	
asc. node	8612 Mar 15 17:17	15° Ƴ 01'45		C	8613 Jan 30 01:48	0° ∀	
evening set	8612 Mar 20 05:35	13° Ƴ 14'34		evening max el	8613 Feb 17 08:11	23° ∺ 19'44	23°02'50
inferior conj	8612 Mar 25 13:00	6° Y 56'32	2°44'02	retrograde	8613 Feb 27 14:57	29° ∺ 25'16	
minimum elong	8612 Mar 25 10:52	7° Ƴ 03'55	2°43'31	asc. node	8613 Mar 02 14:23	28°) 41′21	
min. Earth dist.	8612 Mar 25 15:38	6° Ƴ 47'21	0.68372 AU	evening set	8613 Mar 04 12:36	27°) €23'21	
morning rise	8612 Mar 30 16:01	0° Ƴ 44'17		inferior conj	8613 Mar 09 21:43	20°) 57′52	2°11'21
	8612 Mar 31 14:18	30° ₹ ₩		minimum elong	8613 Mar 09 19:29	21°) €05'36	2°10'43
direct	8612 Apr 04 15:39	28° ∺ 35′12		min. Earth dist.	8613 Mar 09 12:22	21° ¥ 30′15	0.68427 AU
	8612 Apr 09 03:12	$0^{\circ}\mathbf{\Upsilon}$		morning rise	8613 Mar 15 02:17	14° ¥ 50′36	
morning max el	8612 Apr 14 13:09	4° Y 26'02	22°44'32	direct	8613 Mar 19 12:02	13° ∺ 03'31	
desc. node	8612 Apr 19 07:28	9° Ƴ 45′00		morning max el	8613 Mar 28 03:55	18° ∺ 04'10	21°19'31
	8612 May 04 02:51	9° 8		desc. node	8613 Apr 06 04:24	28° ¥ 56′24	
morning set	8612 May 18 17:09	22° 8 47'24			8613 Apr 06 23:11	0° Υ	
	8612 May 23 00:29	$\Pi^{\circ}0$			8613 Apr 27 05:41	9° 8	
max. Earth dist.	8612 May 23 08:26	0°耳33'54	1.40223 AU	morning set	8613 Apr 28 11:44	1° 8 58'08	
				max. Earth dist.	8613 May 05 10:14	13° 8 07'44	1.42335 AU
superior conj	8612 May 31 02:56	14° Ⅱ 15'32					
minimum elong	8612 May 31 08:41	14° Ⅱ 41'39	1°36'17	superior conj	8613 May 12 19:08	25° 8 30'43	-2°00'29

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minimum elong	8613 May 13 00:26	25° 8 53'33	2°00'17	minimum elong	8614 Apr 23 12:10	5° 8 46'28	2°11'58
	8613 May 15 09:14	Π°		evening rise	8614 May 06 10:58	27° 8 35'20	
evening rise	8613 May 24 02:50	15° Ⅱ 36′28		•	8614 May 07 20:33	$\Pi^{\circ}0$	
asc. node	8613 May 29 13:15	25° Ⅲ 21'50		asc. node	8614 May 16 10:18	14° Ⅱ 26′32	
	8613 Jun 01 05:58	0°99		evening max el	8614 May 24 02:12	24° Ⅱ 44'25	18°07'41
evening max el	8613 Jun 09 12:51	11° 5 29'08	18°07'24	retrograde	8614 May 30 11:48	28° Ⅱ 04'59	
retrograde	8613 Jun 16 07:12	14° 9 55'29		evening set	8614 Jun 02 06:59	27° Ⅲ 25′08	
evening set	8613 Jun 18 18:50	14° 5 27'58		inferior conj	8614 Jun 08 12:12	22° Ⅲ 12'50	2°50'35
inferior conj	8613 Jun 25 14:20	9° 5 34'51	2°03'59	minimum elong	8614 Jun 08 14:43	22° Ⅱ 06'09	2°49'52
minimum elong	8613 Jun 25 17:20	9° 5 27'49	2°02'55	min. Earth dist.	8614 Jun 11 08:16	19° Ⅱ 13'15	0.62603 AU
min. Earth dist.	8613 Jun 28 21:07	6° 5 32'29	0.60375 AU	morning rise	8614 Jun 14 20:44	16° Ⅱ 04'50	
morning rise	8613 Jul 02 13:06	3°5643'01		desc. node	8614 Jun 20 00:56	13° ∏ 42'49	
desc. node	8613 Jul 03 03:53	3°520'42		direct	8614 Jun 21 14:58	13° Ⅱ 34'51	
direct	8613 Jul 09 02:12	1° 9 37'54		morning max el	8614 Jul 05 16:32	21° II 37'21	27°53'25
morning max el	8613 Jul 23 10:00	9° 5 34'40	27°47'58	Č	8614 Jul 12 23:42	0°ಅ	
. 8	8613 Aug 08 04:06	0°N			8614 Aug 01 07:13	$0^{\circ}\Omega$	
morning set	8613 Aug 24 19:53	0° m/21'50		morning set	8614 Aug 08 19:14	14° £ 25′02	
	8613 Aug 24 15:40	0° m)		asc. node	8614 Aug 12 09:43	21°Ω52'48	
asc. node	8613 Aug 25 12:45	1° m) 49'57		max. Earth dist.	8614 Aug 14 04:01		1.32251 AU
max. Earth dist.	8613 Aug 30 22:32	-	1.31711 AU				
max. Darur dist.	0013 11 ug 30 22 .32	13 112 30 00	1.51711110	superior conj	8614 Aug 16 10:04	0° mp 30'53	0°39'47
superior conj	8613 Sep 01 01:13	15° m 57'13	1°02'03	minimum elong	8614 Aug 16 08:22	0° my 21'33	
minimum elong	8613 Aug 31 23:01	15° m/ 45'03	1°01'37	minimum ciong	8614 Aug 16 04:24	0°Mp	0 37 20
minimum clong	8613 Sep 07 10:39	0∘ ⊽	1 0137	evening rise	8614 Aug 23 06:39	15° Mp 27'09	
evening rise	8613 Sep 07 19:06	0° 0° 45'21		evening rise	8614 Aug 30 10:56	ე∘ <u>ი</u>	
evening rise	8613 Sep 23 13:58	0° ™		desc. node	8614 Sep 15 23:44	0 = 24° £ 08'06	
desc. node	8613 Sep 29 02:37	7°ML40'20		evening max el	8614 Sep 16 13:55	24° £ 42'56	22050100
	8613 Oct 05 01:34	14°ML16'14	25921120	evening max er	•	0°M	23 38 08
evening max el			25-31-28		8614 Sep 23 19:56		
retrograde	8613 Oct 18 23:36	21°M.18'08		retrograde ·	8614 Sep 30 05:56	1°M33'26	
evening set	8613 Oct 24 23:59	19°M54'18	0.57745 ATT	evening set	8614 Oct 04 23:11	0°M44'39	
min. Earth dist.	8613 Oct 29 13:47	17°M16'33	0.57745 AU	: E 4 E 4	8614 Oct 06 20:44	30°R <u>Ω</u>	0.56020 ATT
inferior conj	8613 Nov 01 14:01	15°M11'39		min. Earth dist.	8614 Oct 11 00:31		0.56020 AU
minimum elong	8613 Nov 01 19:55	15°M01'26	5°12'37	inferior conj	8614 Oct 13 06:14	26° £ 25'14	
morning rise	8613 Nov 09 18:10	10°M.54'31		minimum elong	8614 Oct 13 06:17	26° £ 25'08	5°36'37
direct	8613 Nov 12 02:43	10°M37'32	10053113	morning rise	8614 Oct 21 15:27	22° £ 28'01	
morning max el	8613 Nov 20 20:28	14°M49'26	18°53'12	direct	8614 Oct 24 09:20	22° Ω 08'43	10055111
asc. node	8613 Nov 21 12:26	15°M29'08		morning max el	8614 Nov 03 13:05		19°57'11
	8613 Dec 01 09:51	0° ∡ ¹			8614 Nov 06 09:46	0°M	
morning set	8613 Dec 07 07:37	11° × 15'21		asc. node	8614 Nov 08 09:27	2°M32'49	
				morning set	8614 Nov 21 12:18	25°M50'09	
superior conj	8613 Dec 15 18:56				8614 Nov 23 13:19	0°⊀	
minimum elong	8613 Dec 15 22:12		1°11'46				
	8613 Dec 16 23:08	0° ਰ		superior conj	8614 Nov 29 06:07	11° ≯ 34'03	1°29'20
max. Earth dist.	8613 Dec 22 19:45	10° る 43'28	1.39223 AU	minimum elong	8614 Nov 29 08:30	11° ∡ °45'55	1°29'20
desc. node	8613 Dec 26 01:34	16° る 23'15		max. Earth dist.	8614 Dec 05 01:59	22° ≯ 52'54	1.37083 AU
evening rise	8613 Dec 26 17:29	17° る 31'21		evening rise	8614 Dec 08 20:22	29° ∡ ⁴48'48	
	8614 Jan 03 07:54	0° ≈			8614 Dec 08 22:52	0° る	
	8614 Jan 24 12:53	0° ∀		desc. node	8614 Dec 12 22:35	6° る 59'50	
evening max el	8614 Jan 30 22:01	7° ∺ 06'11	24°22'39		8614 Dec 27 14:09	0° ≈	
retrograde	8614 Feb 11 07:05	13°) 46′06		evening max el	8615 Jan 13 11:15	20° ≈ 54'23	25°36'25
evening set	8614 Feb 16 17:01	11° ∺ 30′39		retrograde	8615 Jan 25 18:33	27° ≈ 58'09	
asc. node	8614 Feb 17 11:29	10°) 48′39		evening set	8615 Jan 31 17:11	25° ≈ 31'25	
min. Earth dist.	8614 Feb 21 08:29	6° ₩ 11'57	0.68081 AU	asc. node	8615 Feb 04 08:37	21° ≈ 40′26	
inferior conj	8614 Feb 22 05:20	5° 米 01′56	1°30'03	min. Earth dist.	8615 Feb 05 01:37	20° ≈ 47′26	0.67350 AU
minimum elong	8614 Feb 22 03:27	5° ₩ 08'15	1°29'27	inferior conj	8615 Feb 06 09:55	19° ≈ 04'20	0°40'27
	8614 Feb 26 10:03	30° R ≈		minimum elong	8615 Feb 06 08:56	19° ≈ 07'30	0°40'11
morning rise	8614 Feb 27 13:59	29° ≈ 01'07		morning rise	8615 Feb 12 01:06	13° ≈ 11'55	
direct	8614 Mar 03 10:37	27° ≈ 35'58		direct	8615 Feb 15 09:53	12° ≈ 06'51	
	8614 Mar 08 23:04	0° ∀		morning max el	8615 Feb 22 07:49	15° ≈ 54'38	19°06'09
morning max el	8614 Mar 11 01:56	1° ¥ 54'16	20°05'32		8615 Mar 05 03:22	0° ∀	
desc. node	8614 Mar 24 01:20	18° ¥ 39′21		greatest brilliancy	8615 Mar 07 19:40	4°) €00'42	-0.7m
	8614 Mar 31 16:38	0° Υ		desc. node	8615 Mar 10 22:15	8°)(44'47	
morning set	8614 Apr 07 11:09	10° Y ′20′28		morning set	8615 Mar 17 13:44	19°) 00′06	
max. Earth dist.	8614 Apr 17 19:20	26° Ƴ 33'30	1.44048 AU	-	8615 Mar 24 15:36	$0^{\circ}\mathbf{\Upsilon}$	
	8614 Apr 19 22:49	0°8		max. Earth dist.	8615 Mar 31 10:56	10° Ƴ 38'59	1.45153 AU
	<u>*</u>						
superior conj	8614 Apr 23 11:06	5° 8 42'07	-2°11'52	superior conj	8615 Apr 03 03:58	14° Y 55'19	-2°04'59
-	=			-	-		

8616 Feb 25 19:09

8616 Feb 26 08:32

desc. node

29°≈06'38

8617 Feb 19 21:28

superior conj

2°**)** 59'06 -0°57'19

0°**)**€

minimum elong	8617 Feb 19 14:54	2°) 32'53	0°56'20		8618 Jan 23 11:26	0° ≈	
max. Earth dist.	8617 Feb 19 14.34 8617 Feb 24 01:44	2 ★3233 9°¥36'19	0 36 20 1.45185 AU	desc. node	8618 Jan 29 13:01	0 ≈ 10°≈21'01	
evening rise		28° ₩ 07'14	1.43183 AU	desc. node	8018 Jan 29 15.01	10 ≈2101	
evening rise	8617 Mar 07 23:40 8617 Mar 09 05:01	28 χ 0/14 0° Υ		superior conj	8618 Jan 31 07:46	13° ≈ 19'27	0012104
arrantant brillianas	8617 Mar 22 11:52	20° Υ 04'28	-0.6m		8618 Jan 31 06:26	13 ≈1927 13°≈13'54	
greatest brilliancy	8617 Mar 29 14:31	0° 8	-0.0111	minimum elong	8618 Jan 31 00:42	13 ≈13 34 12°≈50'05	0 1242
		5° 8 26'22	19°55'17	behind sun begin behind sun end			
evening max el	8617 Apr 03 05:59	7° 8 55'50	19 33 17		8618 Jan 31 12:10	13°≈37'42	1 44122 ATT
asc. node	8617 Apr 06 01:36	9° 8 48'05		max. Earth dist.	8618 Feb 06 19:03	23°≈52'45 0°) €	1.44132 AU
retrograde	8617 Apr 10 19:30				8618 Feb 10 15:34		
evening set	8617 Apr 14 14:05	8° 8 25'04	2017/10	evening rise	8618 Feb 15 11:06	7°) 29'41 0° Υ	
inferior conj	8617 Apr 19 22:35	2° 8 24'52			8618 Mar 02 12:01		21001110
minimum elong	8617 Apr 19 21:28	2° 8 28'34	3°16'08	evening max el	8618 Mar 17 05:35	19° ℃ 06'03	21°01'18
min. Earth dist.	8617 Apr 20 22:04	1° 8 05'51	0.67399 AU	asc. node	8618 Mar 23 22:42	23° Y 50'00	
	8617 Apr 21 18:01	30° ₹ Υ		retrograde	8618 Mar 25 17:56	24° Y 06′29	
morning rise	8617 Apr 25 04:35	26° Y 07′08		evening set	8618 Mar 29 22:06	22° Y 28'17	
direct	8617 May 01 01:32	23° Y ′29'53		inferior conj	8618 Apr 04 05:21	16° Y 16′09	2°58'41
desc. node	8617 May 10 15:55	28° Y 26′30		minimum elong	8618 Apr 04 03:29	16° Y 22'36	2°58'18
	8617 May 12 07:37	$_{0\circ}$ 8		min. Earth dist.	8618 Apr 04 15:21	15° Ƴ 41'29	0.68147 AU
morning max el	8617 May 12 22:33	0° 8 37'18	25°04'44	morning rise	8618 Apr 09 08:38	10° Ƴ 01'22	
	8617 Jun 04 00:59	Π $^{\circ}0$		direct	8618 Apr 14 16:21	7° Ƴ 40'21	
morning set	8617 Jun 17 23:26	23° Ⅱ 10'36		morning max el	8618 Apr 25 07:40	14° Y 01'04	23°35'54
max. Earth dist.	8617 Jun 21 14:22	29° ∏ 46′06	1.36711 AU	desc. node	8618 Apr 27 12:53	16° Ƴ 22'22	
	8617 Jun 21 17:22	0 \circ \odot			8618 May 08 06:41	$8^{\circ 0}$	
					8618 May 27 22:40	$\Pi^{\circ}0$	
superior conj	8617 Jun 28 00:03	12° © 01'11	-0°48'16	morning set	8618 May 30 12:09	4° Ⅱ 17'47	
minimum elong	8617 Jun 28 03:01	12° © 15'48	0°47'56	max. Earth dist.	8618 Jun 03 10:12	11° Ⅱ 03′20	1.38922 AU
asc. node	8617 Jul 03 00:38	22° 5 04'34					
evening rise	8617 Jul 06 07:17	28°542'37		superior conj	8618 Jun 10 22:30	24° ∏ 41′23	-1°19'57
	8617 Jul 06 22:40	$0^{\circ}\Omega$		minimum elong	8618 Jun 11 03:28	25° Ⅱ 04'41	1°19'25
evening max el	8617 Jul 23 10:49	26° Ω 45'13	19°37'10	C	8618 Jun 13 17:49	0°ಅ	
<i>8</i>	8617 Jul 27 14:26	0° m)		asc. node	8618 Jun 19 21:38	11° © 55'44	
retrograde	8617 Aug 02 06:17	1° m) 35'57		evening rise	8618 Jun 20 04:17	12° © 28'01	
evening set	8617 Aug 04 02:36	1° m) 26'25		, and the second	8618 Jun 29 18:23	$\Omega^{\circ}\Omega$	
desc. node	8617 Aug 06 15:04	0° mp 44'55		evening max el	8618 Jul 06 09:46	8° Ω 45'37	18°46'18
	8617 Aug 08 08:51	30°R Ω		retrograde	8618 Jul 14 16:06	12°Ω51'38	
inferior conj	8617 Aug 12 22:07	27° Ω 22'37	-1°55'39	evening set	8618 Jul 16 16:14	12°Ω38'03	
minimum elong	8617 Aug 12 16:52	27° Ω 30'54		inferior conj	8618 Jul 24 17:12	8° Ω 17'04	-0°03'50
min. Earth dist.	8617 Aug 15 05:29	25° Ω 55'38	0.55450 AU	minimum elong	8618 Jul 24 17:02	8° Ω 17'21	0°03'56
morning rise	8617 Aug 13 03:29 8617 Aug 21 04:48	$23^{\circ} \Omega 53^{\circ} 53^{\circ}$	0.55450 AC	transit middle	8618 Jul 24 17:02	8° Ω 17'21	0°03'56
direct	8617 Aug 25 23:05	22° Ω 04'16		transit begin	8618 Jul 24 13:27	8° Ω 23'54	0 03 30
morning max el	8617 Sep 08 21:41	29°Ω01'56	24°50'30	transit end	8618 Jul 24 20:37	8° Ω 10'48	
morning max cr	8617 Sep 09 21:30	0° m)	24 30 30	desc. node	8618 Jul 24 12:08	8° Ω 26'19	
asc. node	8617 Sep	28° Mp 20'28		min. Earth dist.	8618 Jul 27 21:28	5° Ω 58'30	0.57004 AU
asc. Houe	8617 Sep 29 20:46	0° ⊽		morning rise	8618 Aug 01 14:24	3° Ω 12'27	0.37004 AU
morning set	8617 Oct 04 20:16	0 == 10° £ 13'51		direct	8618 Aug 07 04:53	1° Ω 55'59	
morning set	801/OCt 04 20.10	10 = 13 31		morning max el	=	9° Ω 24'00	26922109
	0617.0-+ 11 17.07	259 0 12127	1927112	morning max er	8618 Aug 21 12:16		20 23 08
superior conj	8617 Oct 11 17:07	25° ♀ 12'27 25° ♀ 05'43		4-	8618 Sep 06 03:14	0° Mp	
minimum elong	8617 Oct 11 15:53		1°37'13	asc. node	8618 Sep 15 21:16	17° m 53'34	
max. Earth dist.	8617 Oct 13 10:01	28° £ 55'40	1.32479 AU	morning set	8618 Sep 19 06:52	24° m 57'02	
	8617 Oct 13 21:53	0°M			8618 Sep 21 15:06	0∘ ⊽	
evening rise	8617 Oct 18 22:50	10°M38'36			0610.0 26.04.25	100 0 02110	1007120
	8617 Oct 29 04:07	0° ∡		superior conj	8618 Sep 26 04:25	10° Ω 03'10	
desc. node	8617 Nov 02 13:46	7° ∡ 120'14		minimum elong	8618 Sep 26 02:29	9° £ 52'23	
	8617 Nov 19 17:47	0°₹		max. Earth dist.	8618 Sep 26 18:08		1.31819 AU
evening max el	8617 Nov 21 00:20	1° る 14'32	27°29'19	evening rise	8618 Oct 03 02:12	25° Ω 04'14	
retrograde	8617 Dec 04 18:30	8° 云 32'30			8618 Oct 05 11:26	0° M	
evening set	8617 Dec 11 20:08	6° る 04'02		desc. node	8618 Oct 20 10:50	26°M31'49	
min. Earth dist.	8617 Dec 15 13:05	2° ろ 58'15			8618 Oct 22 19:42	0° ∡	
inferior conj	8617 Dec 18 07:35	0° る 15'48		evening max el	8618 Nov 03 07:02	13° ∡ ⁴42'20	27°09'35
minimum elong	8617 Dec 18 12:23	0° る 04'03	2°28'39	retrograde	8618 Nov 17 04:14	20° х 53′30	
	8617 Dec 18 14:03	30°₽ ⋌		evening set	8618 Nov 24 04:28	18° ≯ 42'31	
morning rise	8617 Dec 25 06:43	25° ∡ 03'40		min. Earth dist.	8618 Nov 27 21:46	15° ₹ 58'54	0.61000 AU
asc. node	8617 Dec 25 23:50	24° ≯ 50'33		inferior conj	8618 Dec 01 00:14	13° ∡ 18′29	-3°41'11
direct	8617 Dec 27 14:35	24° ₹ 38'14		minimum elong	8618 Dec 01 07:05	13° ∡ °03'42	3°38'47
morning max el	8618 Jan 03 06:07	28° ∡ 03'17	17°47'41	morning rise	8618 Dec 08 12:03	8° ∡ 125'43	
	8618 Jan 05 00:56	0°ರ		direct	8618 Dec 10 16:55	8° ₹ 05'59	
morning set	8618 Jan 19 09:20	22° る 52'39		asc. node	8618 Dec 12 20:52	8° ∡ ¹25'47	

morning max el	8618 Dec 17 21:09	11° ∡ 741'58	17°57'08	asc. node	8619 Nov 29 17:54	23°M32'19	
morning max or	8618 Dec 30 01:33	0°ਰ	17 57 00	morning max el	8619 Dec 01 06:17	24°M52'31	18°26'33
morning set	8619 Jan 02 12:48	6° ප 19'42		Č	8619 Dec 05 13:09	0° ∡ ¹	
				morning set	8619 Dec 17 05:07	20° х 21′43	
superior conj	8619 Jan 12 19:36	24° る 52'53	0°26'36		8619 Dec 22 05:51	0°ರ	
minimum elong	8619 Jan 12 21:47	25° る 02'23	0°26'28				
	8619 Jan 15 18:38	0° ≈		superior conj	8619 Dec 26 05:46	7° る 29'33	0°57'59
desc. node	8619 Jan 16 09:59	1° ≈ 05'31		minimum elong	8619 Dec 26 09:07	7° る 45'00	0°57'44
max. Earth dist.	8619 Jan 20 08:34	7° ≈ 42'01	1.42505 AU	max. Earth dist.	8620 Jan 02 17:29	20° る 51'44	1.40480 AU
evening rise	8619 Jan 26 08:46	17°≈25'01		desc. node	8620 Jan 03 06:58	21° る 49'42	
	8619 Feb 03 12:25	0°) €		evening rise	8620 Jan 07 02:00	28°る13'18	
	8619 Feb 25 09:45	0°Υ	22016156		8620 Jan 08 03:54	0° ≈	
evening max el	8619 Feb 28 00:11	2° Υ 47'51	22°16'56		8620 Jan 28 02:05	0°) (22110	22027100
retrograde	8619 Mar 09 14:57	8° Y 29'35 8° Y 22'18		evening max el	8620 Feb 10 15:10	16°) 32′10 22°) 52′46	23°37'00
asc. node evening set	8619 Mar 10 19:48 8619 Mar 14 05:57	6° Υ 36'10		retrograde asc. node	8620 Feb 21 09:09 8620 Feb 25 16:55	21° H 22'14	
inferior conj	8619 Mar 19 13:55		2°31'15	evening set	8620 Feb 26 12:05	21 \(22 14 \) 20° \(44'44	
minimum elong	8619 Mar 19 11:42	0° Υ 22'31	2°30'40	inferior conj	8620 Mar 02 22:25	14° H 17'31	1°54'51
min. Earth dist.	8619 Mar 19 11:42	0° Υ 23'26	0.68456 AU	minimum elong	8620 Mar 02 20:17	14° X 17'51	1°54'12
mm. Earth dist.	8619 Mar 19 18:10	30° ₹	0.00 130 710	min. Earth dist.	8620 Mar 02 08:06	15° X 06'30	0.68337 AU
morning rise	8619 Mar 24 17:17	24°) (04'30		morning rise	8620 Mar 08 04:27	8° ¥ 13′02	0.00557110
direct	8619 Mar 29 11:05	22°) 04'23		direct	8620 Mar 12 08:32	6°) 35′26	
morning max el	8619 Apr 07 19:18	27°) 32′50	22°07'13	morning max el	8620 Mar 20 13:01	11° ℋ 16'12	20°46'25
C	8619 Apr 10 02:35	$0^{\circ}\mathbf{\Upsilon}$		desc. node	8620 Mar 31 06:46	24°) 36′28	
desc. node	8619 Apr 14 09:50	5° Ƴ 10'31			8620 Apr 04 01:46	$0^{\circ}\Upsilon$	
	8619 May 01 21:22	9° 8		morning set	8620 Apr 19 06:52	22° Y 54'53	
morning set	8619 May 10 22:16	14° 8 10'12			8620 Apr 23 18:57	9° 8	
max. Earth dist.	8619 May 16 08:44	23° 8 06'50	1.41162 AU	max. Earth dist.	8620 Apr 27 14:18	6° 8 06'31	1.43131 AU
	8619 May 20 09:52	$\Pi^{\circ}0$					
				superior conj	8620 May 04 09:20	17° 8 19'18	
superior conj	8619 May 24 03:07	6° Ⅱ 30'42		minimum elong	8620 May 04 13:22	17° 8 36'17	2°07'10
minimum elong	8619 May 24 09:02	6° Ⅱ 56'59	1°47'33		8620 May 11 18:31	0°II	
evening rise	8619 Jun 03 14:27	25° Ⅱ 40'13		evening rise	8620 May 16 09:31	8° Ⅱ 09'27	
1	8619 Jun 05 22:26	0.ಪ		asc. node	8620 May 23 15:44	20° I I52'02	
asc. node	8619 Jun 06 18:40	1°933'13	10015152		8620 May 29 12:16	0°©	10005110
evening max el retrograde	8619 Jun 19 17:14 8619 Jun 26 21:14	21°©22'11 24°©58'25	18°15'53	evening max el retrograde	8620 Jun 02 05:23 8620 Jun 08 18:46	4° © 25'55 7° © 48'15	18°05'10
evening set	8619 Jun 29 04:36	24 \$38 23 24°\$36'46		evening set	8620 Jun 11 09:38	7°9915'41	
inferior conj	8619 Jul 06 10:01	19° 9 54'58	1°25'24	inferior conj	8620 Jun 17 09:38	2°913'53	2°26'45
minimum elong	8619 Jul 06 12:35	19° 5 49'27	1°24'20	minimum elong	8620 Jun 18 01:28	2°506'35	
min. Earth dist.	8619 Jul 09 19:18	17°902'12	0.59080 AU		8620 Jun 20 04:31	30°R∏	
desc. node	8619 Jul 11 09:14	15°9548'55		min. Earth dist.	8620 Jun 21 01:19	29° Ⅱ 10′07	0.61334 AU
morning rise	8619 Jul 13 17:25	14°917'41		morning rise	8620 Jun 24 15:00	26° Ⅱ 13'50	
direct	8619 Jul 20 00:11	12°530'20		desc. node	8620 Jun 27 06:19	24° ∏ 46′58	
morning max el	8619 Aug 03 09:09	20°518'22	27°27'37	direct	8620 Jul 01 07:03	23° II 57'23	
	8619 Aug 11 17:03	$0^{\circ}\Omega$			8620 Jul 13 11:16	0 \circ \odot	
	8619 Aug 29 22:38	0° ™		morning max el	8620 Jul 15 12:57	1° 9 57'28	27°55'07
asc. node	8619 Sep 02 18:12	7° m/42'01			8620 Aug 05 01:22	0°N	
morning set	8619 Sep 03 14:37	9° ™ 28'41		morning set	8620 Aug 17 17:41	23° Ω 44'05	
max. Earth dist.	8619 Sep 10 04:18	23° m 45'20	1.31617 AU	asc. node	8620 Aug 19 15:10	27° Ω 40'58	
	0610.0 10.16.00	2.40 m. #110.6	1010140	E d E c	8620 Aug 20 17:24	0° m	1 21002 411
superior conj	8619 Sep 10 16:09	24° Mp 51'06		max. Earth dist.	8620 Aug 23 12:46	6~11 0 03'49	1.31882 AU
minimum elong	8619 Sep 10 13:55 8619 Sep 12 23:50	24° Mp38′38 0° <u> </u>	1°12'27	aumorior comi	9620 Aug 25 02:26	9° m 31'16	0952100
evening rise	8619 Sep 17 10:18	0 == 9° £ 40'29		superior conj minimum elong	8620 Aug 25 02:36 8620 Aug 25 00:32	9° My 19'56	0°52'42
evening rise	8619 Sep 27 19:17	9 == 40 29 0° M		evening rise	8620 Aug 31 21:09	24° m) 21'39	0 32 42
desc. node	8619 Oct 07 07:56	14°M55'21		evening rise	8620 Sep 03 13:21	0° ഫ	
evening max el	8619 Oct 16 06:35	25°M20'22	26°15'58		8620 Sep 21 09:19	0° m	
,	8619 Oct 22 06:56	0°×7		desc. node	8620 Sep 23 05:03	2°M12'06	
retrograde	8619 Oct 30 04:35	2° ₹ 25'07		evening max el	8620 Sep 26 21:58	6° ™ 07'41	24°53'34
evening set	8619 Nov 05 17:35	0° ∡ 741'39		retrograde	8620 Oct 10 18:10	13°M06'00	
-	8619 Nov 06 23:41	30°RML		evening set	8620 Oct 16 06:57	11°M57'04	
min. Earth dist.	8619 Nov 09 19:43	28°ML07'10	0.58909 AU	min. Earth dist.	8620 Oct 21 09:15	9° ™ 13'18	0.56955 AU
inferior conj	8619 Nov 12 23:56	25°M44'30	-4°45'00	inferior conj	8620 Oct 24 03:44	7°M24'57	
minimum elong	8619 Nov 13 07:09	25°M30'55	4°43'13	minimum elong	8620 Oct 24 07:41	7°M18'30	5°27'57
morning rise	8619 Nov 20 23:05	21°M14'06		morning rise	8620 Nov 01 10:40	3°M17'23	
direct	8619 Nov 23 05:01	20°M56'53		direct	8620 Nov 03 22:39	2°M59'46	

8621 Oct 12 21:59

8621 Oct 15 20:55

14°**£**26'41

14°**♀**05'43

8622 Sep 11 16:08

8622 Sep 14 06:18

inferior conj

28° m/34'43 -4°41'24

morning rise

direct

minimum elong min. Earth dist.	8622 Sep 13 21:08 8622 Sep 14 02:55	28° m/47'32 28° m/39'26	4°39'19 0.54712 AU	inferior conj minimum elong	8623 Aug 25 00:25 8623 Aug 24 16:16	8° m 43'36 8° m 55'34	2°59'57
morning rise	8622 Sep 22 17:09	24° Mp 44'54		min. Earth dist.	8623 Aug 26 12:45	7° Mp 50'10	0.54915 AU
direct morning max el	8622 Sep 26 06:57 8622 Oct 08 15:18	24° Mp 17'02 0° ⊆ 07'37	22°05'00	morning rise direct	8623 Sep 02 09:58 8623 Sep 06 17:15	4° m/35'04 3° m/55'08	
morning max ci	8622 Oct 08 13:18 8622 Oct 08 12:01	0° ⊡	22 03 00	morning max el	8623 Sep 20 05:06	10° m) 29'34	23°50'19
asc. node	8622 Oct 20 08:51	0 — 15° Ω 42'15		morning max cr	8623 Oct 04 16:23	0° <u>Ω</u>	25 50 17
use. Houe	8622 Oct 27 22:12	0°M		asc. node	8623 Oct 07 05:48	o — 4° Ω 35'56	
morning set	8622 Oct 29 23:06	4°M13'52		morning set	8623 Oct 14 10:45	19° Ω 03'35	
				C	8623 Oct 19 12:09	0°M	
superior conj	8622 Nov 06 02:02	19°M21'36	1°40'34				
minimum elong	8622 Nov 06 02:35	19°M24'29	1°40'42	superior conj	8623 Oct 21 08:43	4°M02'13	1°40'10
max. Earth dist.	8622 Nov 09 20:22	27°M10'38	1.34439 AU	minimum elong	8623 Oct 21 08:03	3°M58'39	1°40'16
	8622 Nov 11 05:51	0° ∡ 7		max. Earth dist.	8623 Oct 23 18:45	9°M14'23	1.33070 AU
evening rise	8622 Nov 14 06:31	5° ₹ 57'42		evening rise	8623 Oct 28 21:12	19° M 49'45	
desc. node	8622 Nov 23 22:00	23° ∡ °22'04			8623 Nov 03 03:21	0°⊀	
	8622 Nov 27 23:34	0° ろ		desc. node	8623 Nov 10 19:04	13° ∡ 22'01	
evening max el	8622 Dec 19 06:54	27° る 46'23	26°56'50		8623 Nov 22 01:32	0° ろ	
	8622 Dec 21 18:08	0° ≈		evening max el	8623 Dec 01 19:22	11° る 08'01	27°25'48
retrograde	8623 Jan 01 12:45	5°≈06'04		retrograde	8623 Dec 15 09:56	18°る27'25	
evening set	8623 Jan 08 03:42	2°≈30'38		evening set	8623 Dec 22 09:14	15° る 53'53	0.64061.411
: E 4 E 4	8623 Jan 10 20:33	30°Rる	0.65650 ATT	min. Earth dist.	8623 Dec 26 04:11	12°る31'29 9°る54'20	0.64061 AU
min. Earth dist.	8623 Jan 12 03:30 8623 Jan 14 04:23	28°る35'38 26°る15'12	0.65658 AU	inferior conj	8623 Dec 28 16:33 8623 Dec 28 19:59	9°る45'21	
inferior conj minimum elong	8623 Jan 14 04:23 8623 Jan 14 05:38	26°る13'12 26°る11'37		minimum elong asc. node	8624 Jan 03 05:15	5° る 05'46	1-48-39
asc. node	8623 Jan 16 08:12	20 3 1137 23° る 51'31	0 42 42	morning rise	8624 Jan 04 08:27	5 30546 4° 3 32'16	
morning rise	8623 Jan 20 08:44	23 3 3131 20° る 38'32		direct	8624 Jan 06 19:38	4°る01'46	
direct	8623 Jan 23 03:21	19°る56'32		morning max el	8624 Jan 13 07:06	7° る 24'06	17°50'39
morning max el	8623 Jan 29 13:57	23° る 22'12	18°09'38	morning max or	8624 Jan 28 09:53	0°≈	17 3037
morning man vi	8623 Feb 03 23:25	0°≈	10 0, 50	morning set	8624 Jan 30 02:16	2°≈51'46	
morning set	8623 Feb 17 06:50	20°≈56'05		desc. node	8624 Feb 06 18:24	15° ≈ 46'44	
desc. node	8623 Feb 19 21:30	25° ≈ 09'59					
	8623 Feb 22 21:27	0° ∀		superior conj	8624 Feb 12 03:03	24° ≈ 33'57	-0°38'23
				minimum elong	8624 Feb 11 22:45	24° ≈ 16′31	0°37'38
superior conj	8623 Mar 04 06:33	14°) 54′26	-1°21'55		8624 Feb 15 12:10	0°) €	
minimum elong	8623 Mar 03 21:35	14° ¥ 19′07	1°20'50	max. Earth dist.	8624 Feb 17 10:28	3°) €04'06	1.44822 AU
max. Earth dist.	8623 Mar 06 15:04	18°) ₹36′15	1.45487 AU	evening rise	8624 Feb 27 22:22	19° ∺ 25′06	
	8623 Mar 13 22:17	0° Υ			8624 Mar 05 21:19	0° Υ	
evening rise	8623 Mar 20 09:59	10° Y ′05′08		evening max el	8624 Mar 26 17:34	28° Y 35′28	20°21'52
greatest brilliancy	8623 Apr 01 16:06	28°Y′58'09	-0.7m		8624 Mar 28 04:53	0°8	
	8623 Apr 02 08:35	0° 8	10000110	asc. node	8624 Mar 31 04:05	2° 8 11'01	
evening max el	8623 Apr 13 14:46	14° 8 56'30	19°23'18	retrograde	8624 Apr 03 15:58	3° 8 12'37 1° 8 42'55	
asc. node	8623 Apr 14 07:00	15° 8 36'20 18° 8 58'24		evening set	8624 Apr 07 14:36	1° O 42′55 30° ₹ Υ	
retrograde evening set	8623 Apr 20 17:28 8623 Apr 24 07:10	17° 8 43'58		inferior conj	8624 Apr 09 11:04 8624 Apr 12 22:17	30 K I 25° Υ 37'18	3°10'08
inferior conj	8623 Apr 29 17:30		3°21'27	minimum elong	8624 Apr 12 20:49	25° Υ 42'19	3°09'51
minimum elong	8623 Apr 29 16:59	11° 8 53'32	3°21'18	min. Earth dist.	8624 Apr 13 15:49	24° Y 37'26	0.67777 AU
min. Earth dist.	8623 May 01 01:17	10° 8 08'02	0.66780 AU	morning rise	8624 Apr 18 02:49	19° Υ 20'51	
morning rise	8623 May 05 02:27	5° 8 33'35		direct	8624 Apr 23 18:17	16° Ƴ 49'58	
direct	8623 May 11 06:22	2° 8 50'14		desc. node	8624 May 04 18:19	23° Y 16'16	
desc. node	8623 May 18 21:22	5° 8 58'59		morning max el	8624 May 05 03:00	23° Y 38'05	24°27'33
morning max el	8623 May 23 17:46	10° 8 17'47	25°51'56		8624 May 10 18:40	0°8	
	8623 Jun 08 08:13	Π °0			8624 May 31 17:33	Π °0	
	8623 Jun 26 20:32	0		morning set	8624 Jun 09 22:20	15° Ⅱ 22'34	
morning set	8623 Jun 28 20:25	3° © 37'32		max. Earth dist.	8624 Jun 13 13:42	21° Ⅱ 51′03	1.37638 AU
max. Earth dist.	8623 Jul 02 15:16	10° © 43'51	1.35559 AU		8624 Jun 17 23:27	0	
	0/22 1 1 00 07 07	0100/====	0020147		0.04 1 20 12 1	40-5	1001154
superior conj	8623 Jul 08 05:35	21°5645'28		superior conj	8624 Jun 20 12:15	4°950'13	
minimum elong	8623 Jul 08 07:21	21°954'22	0*29'38	minimum elong	8624 Jun 20 16:07	5°908'52	1°01′26
asc. node	8623 Jul 11 06:05 8623 Jul 12 06:18	27° © 55'17 0° Ω		asc. node evening rise	8624 Jun 27 03:04 8624 Jun 29 04:17	17° © 52'11 21° © 57'12	
evening rise	8623 Jul 12 00:18 8623 Jul 16 02:38	7° Ω 56'20		evening rise	8624 Jul 03 07:05	21° 3 3/12 0° Ω	
evening rise	8623 Jul 28 02:56	0° Mp		evening max el	8624 Jul 15 20:03	19° Ω 06'21	19°12'51
evening max el	8623 Aug 03 03:47	7° Mo 31′25	20°15'51	retrograde	8624 Jul 24 22:40	23° Ω 36'52	1, 12,11
retrograde	8623 Aug 13 22:37	12° mp 51'22		evening set	8624 Jul 26 19:47	23° Ω 26'08	
desc. node	8623 Aug 14 20:25	12° m) 49'14		desc. node	8624 Jul 31 17:32	21° Ω 31'03	
evening set	8623 Aug 15 21:37	12° m 41'35		inferior conj	8624 Aug 04 07:54	19° Ω 15′22	-1°06'19
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minimum elong	8624 Aug 04 04:59	19° Ω 20'15	1°05'19	inferior conj	8625 Jul 16 12:20	0°Ω28'43	0°37'23
min. Earth dist.	8624 Aug 07 01:58	17° Ω 25'16	0.56029 AU	minimum elong	8625 Jul 16 13:40	0° Ω 26′06	0°36'42
morning rise	8624 Aug 12 11:17	14° Ω 32'14			8625 Jul 17 02:55	30° ₹ 5	
direct	8624 Aug 17 14:09	13° Ω 31'55		desc. node	8625 Jul 18 14:37	28°5949'46	
morning max el	8624 Aug 31 17:44	20° Ω 43'11	25°32'34	min. Earth dist.	8625 Jul 19 20:28	27° © 52'48	0.57846 AU
	8624 Sep 08 18:08	0° mp		morning rise	8625 Jul 24 03:58	25° © 08'43	
asc. node	8624 Sep 23 02:44	23° M 56'30		direct	8625 Jul 30 01:51	23° © 39'24	
	8624 Sep 26 02:28	0∘ ऌ			8625 Aug 12 01:52	$0^{\circ}\Omega$	
morning set	8624 Sep 27 22:11	3° ≙ 50'13		morning max el	8625 Aug 13 11:02	1° Ω 17'41	26°54'38
					8625 Sep 02 21:55	o° mp	
superior conj	8624 Oct 04 18:54	18° ♀ 50'37	1°33'48	asc. node	8625 Sep 09 23:41	13° Mp 36'40	
minimum elong	8624 Oct 04 17:19	18° £ 41'54	1°33'44	morning set	8625 Sep 12 07:48	18° m) 29'04	
max. Earth dist.	8624 Oct 06 00:06		1.32144 AU		8625 Sep 17 14:51	0∘ ⊽	
max. Earth dist.	8624 Oct 09 22:07	0°M	1.52111110		0023 Бер 17 11.51	v –	
evening rise	8624 Oct 11 20:42	4°ML04'37		superior conj	8625 Sep 19 06:38	3° ≏ 40'44	1°21'57
evening rise	8624 Oct 25 20:29	4 11G0437 0° √		minimum elong		3° £ 28'55	1°21'42
1 1				_	8625 Sep 19 04:30		
desc. node	8624 Oct 27 16:10	2° х 54'04	27025101	max. Earth dist.	8625 Sep 19 09:26	3° Ω 56'19	1.31676 AU
evening max el	8624 Nov 13 04:42	23° ∡ 57′50	27°25'01	evening rise	8625 Sep 26 02:21	18° ≙ 35'07	
	8624 Nov 21 16:29	0°₹			8625 Oct 01 17:13	0° M	
retrograde	8624 Nov 27 00:08	1°る12'55		desc. node	8625 Oct 14 13:17	21°M47'00	
	8624 Dec 02 01:47	30°₹ ⋌ 7			8625 Oct 20 17:20	0° ∡ ¹	
evening set	8624 Dec 04 02:24	28° 渘 ′50′19		evening max el	8625 Oct 26 08:23	6° ≯ °04′08	26°50'42
min. Earth dist.	8624 Dec 07 18:43	25° ₹ 55'32	0.62172 AU	retrograde	8625 Nov 09 06:21	13° ∡ 13′22	
inferior conj	8624 Dec 10 17:14	23° ∡ 12'08	-3°00'50	evening set	8625 Nov 16 03:11	11° ∡ 12'37	
minimum elong	8624 Dec 10 23:00	22° ҂ 758'44	2°58'33	min. Earth dist.	8625 Nov 19 22:38	8° ∡ ³34'59	0.60102 AU
morning rise	8624 Dec 17 21:49	18° ₹ '08'06		inferior conj	8625 Nov 23 03:03	5° √ 59'45	-4°09'50
direct	8624 Dec 20 04:05	17° х 45'26		minimum elong	8625 Nov 23 10:23	5° х 44'48	
asc. node	8624 Dec 20 02:17	17° × 45'28		morning rise	8625 Nov 30 20:02	1°×716'35	4 07 55
morning max el	8624 Dec 26 23:55	21°×13'44	17°49'29	direct	8625 Dec 03 00:40	0° ₹ 1033	
morning max er			1/4929				
	8625 Jan 02 15:26	0°る		asc. node	8625 Dec 06 23:20	2°×700'13	10007112
morning set	8625 Jan 11 19:53	15° る 50'38		morning max el	8625 Dec 10 12:57	4° ₹ 41'43	18°07'12
	8625 Jan 19 20:18	0° ≈		morning set	8625 Dec 26 05:22	29° ∡ ³33'36	
					8625 Dec 26 11:01	0°る	
superior conj	8625 Jan 23 00:19	5° ≈ 25'44	0°04'39				
minimum elong	8625 Jan 23 00:47	5° ≈ 27'40	0°04'46	superior conj	8626 Jan 04 22:14	17° る 27'32	0°41'01
behind sun begin	8625 Jan 22 16:21	4° ≈ 51'52		minimum elong	8626 Jan 05 01:10	17° る 40'35	0°40'47
behind sun end	8625 Jan 23 09:12	6° ≈ 03'23		desc. node	8626 Jan 10 12:19	27° る 13'55	
desc. node	8625 Jan 23 15:21	6° ≈ 29'21			8626 Jan 12 03:28	0° ≈	
max. Earth dist.	8625 Jan 30 02:32	17° ≈ 11'14	1.43494 AU	max. Earth dist.	8626 Jan 12 13:34	0° ≈ 42'32	1.41666 AU
evening rise	8625 Feb 06 12:28	28° ≈ 57'14		evening rise	8626 Jan 17 17:40	9° ≈ 12'52	
	8625 Feb 07 04:38	0° ∀			8626 Jan 31 06:44	0° ∀	
	8625 Feb 27 14:35	$_0$ ° $\boldsymbol{\gamma}$		evening max el	8626 Feb 20 07:32	25° ¥ 57'35	22°50'54
evening max el	8625 Mar 09 14:49		21°32'32		8626 Feb 25 01:19	0°Υ	
asc. node	8625 Mar 18 01:12	17° Y 32′28	21 3232	retrograde	8626 Mar 02 10:15	1° Υ 57'16	
retrograde	8625 Mar 18 14:09	17° Y 33'57		asc. node	8626 Mar 04 22:20	1° Υ 26'01	
evening set		17 γ 33 3 7 15° γ 49'04				29°) 57'35	
-	8625 Mar 22 22:47	9° Υ 32'21	2040112	evening set	8626 Mar 07 06:06		
inferior conj	8625 Mar 28 06:05	9° Υ 32'21	2°48'13		8626 Mar 07 04:57	30° ₹	2017/52
minimum elong	8625 Mar 28 04:01	9° Y 16'40	2°47'44	inferior conj	8626 Mar 12 14:52	23°) (33'03	
min. Earth dist.	8625 Mar 28 10:36		0.68325 AU	minimum elong	8626 Mar 12 12:37	23°) (40′50	
morning rise	8625 Apr 02 09:05	3° Y 19′20		min. Earth dist.	8626 Mar 12 07:18	23° ¥ 59'18	0.68445 AU
direct	8625 Apr 07 10:46	1° Ƴ 07'06		morning rise	8626 Mar 17 19:02	17° ∺ 24'50	
morning max el	8625 Apr 17 13:00	7° Ƴ 05'58	22°57'46	direct	8626 Mar 22 06:50	15°) 34′17	
desc. node	8625 Apr 21 15:15	11° Y 36'38		morning max el	8626 Mar 31 02:51	20°) (42′07	21°31'33
	8625 May 05 07:38	$_{0\circ}$ 8			8626 Apr 07 23:26	0 ° Υ	
morning set	8625 May 22 00:18	25° 8 59'44		desc. node	8626 Apr 08 12:10	0° Y 42'05	
-	8625 May 24 09:42	$\Pi^{\circ}0$			8626 Apr 28 13:10	0°B	
max. Earth dist.	8625 May 26 10:11	3° Ⅱ 26'41	1.39890 AU	morning set	8626 May 01 22:49	5° 8 20'47	
				max. Earth dist.	8626 May 08 10:51	15° 8 51'39	1.42042 AU
superior conj	8625 Jun 03 03:44	17° I I10'14	-1°32'32	Durin dist.	5525 May 55 10.51	00107	120 .2 /10
minimum elong	8625 Jun 03 09:20	17 II 10 14 17° II 35'52		superior conj	8626 May 15 23:20	28° 8 34'37	_1°57'32
mmmum elong		17° ய 35°52	1 34 00		•	28° 8 58'50	
	8625 Jun 10 00:04			minimum elong	8626 May 16 04:55		1 3/1/
evening rise	8625 Jun 12 21:13	5°930'15			8626 May 16 18:59	0°II	
asc. node	8625 Jun 14 00:06	7° © 38'24		evening rise	8626 May 27 01:32	18° Ⅲ 25'15	
	8625 Jun 27 15:39	0 $^{\circ}$ Ω		asc. node	8626 May 31 21:10	27° Ⅱ 08'44	
evening max el	8625 Jun 28 23:04	1° Ω 23'12	18°30'48		8626 Jun 02 12:05	0 \circ \odot	
retrograde	8625 Jul 06 17:00	5° Ω 14'56		evening max el	8626 Jun 12 09:01	14° © 12'52	18°09'00
evening set	8625 Jul 08 19:51	4° £ 58′29		retrograde	8626 Jun 19 05:28	17° 5 341'10	

	0/2/ 1 21 1/01	150615114			0.607 1 11 00 22	2.40 T 50100	2044150
evening set	8626 Jun 21 16:01	17°5015'14	1074140	inferior conj	8627 Jun 11 09:33	24° I I58'09	2°44'59
inferior conj	8626 Jun 28 14:00	12°525'08	1°54'40	minimum elong	8627 Jun 11 12:13	24° Ⅲ 51'12	2°44'13
minimum elong	8626 Jun 28 16:57	12°5518'22	1°53'35	min. Earth dist.	8627 Jun 14 07:30	21° Ⅱ 56'54	0.62278 AU
min. Earth dist.	8626 Jul 01 21:47	9° © 24'26	0.60038 AU	morning rise	8627 Jun 17 20:06	18° Ⅲ 52'02	
desc. node	8626 Jul 05 11:41	6°5541'54		desc. node	8627 Jun 22 08:44	16° Ⅱ 40'49	
morning rise	8626 Jul 05 15:00	6°536'46		direct	8627 Jun 24 14:02	16° Ⅱ 25'18	
direct	8626 Jul 12 02:48	4° © 36'00		morning max el	8627 Jul 08 16:45	24° Ⅱ 27'10	27°55'06
morning max el	8626 Jul 26 10:57	12° © 30'50	27°43'54		8627 Jul 13 17:13	0°9	
	8626 Aug 09 06:47	$0 {\circ} \Omega$			8627 Aug 02 16:15	0 \circ Ω	
	8626 Aug 26 03:58	0° m)		morning set	8627 Aug 11 14:14	17° Ω 01′26	
morning set	8626 Aug 27 13:52	2° Mp 55'01		asc. node	8627 Aug 14 17:37	23° Ω 32′27	
asc. node	8626 Aug 27 20:40	3° Mp 30'33		max. Earth dist.	8627 Aug 17 01:38	28° Ω 31'46	1.32140 AU
max. Earth dist.	8626 Sep 02 19:14	16° Mp 20'20	1.31670 AU		8627 Aug 17 17:57	0° m)	
superior conj	8626 Sep 03 18:07	18° m 26'51	1°05'04	superior conj	8627 Aug 19 03:25	3°m/02'16	0°43'29
minimum elong	8626 Sep 03 15:53	18° m 14'30	1°04'38	minimum elong	8627 Aug 19 01:36	2° m 52'18	0°43'00
	8626 Sep 08 23:50	0∘ ⊽		evening rise	8627 Aug 25 23:20	17° m 56'36	
evening rise	8626 Sep 10 11:55	3° ₽ 14'45		-	8627 Aug 31 20:18	0∘ ত	
C	8626 Sep 24 16:12	0° M .		desc. node	8627 Sep 18 07:32	26° ₽ 26'52	
desc. node	8626 Oct 01 10:24	9° M 45′23		evening max el	8627 Sep 19 17:31	27° ≏ 52'10	24°12'51
evening max el	8626 Oct 08 04:30	17° M 20'51	25°43'53	<i>8</i>	8627 Sep 22 03:06	0° M ,	
retrograde	8626 Oct 22 02:42	24°M23'26		retrograde	8627 Oct 03 10:50	4°M44'49	
evening set	8626 Oct 28 06:45	22°M54'28		evening set	8627 Oct 08 09:30	3°M51'00	
min. Earth dist.	8626 Nov 01 17:03	20°M18'05	0.58039 AU	min. Earth dist.	8627 Oct 14 04:17	0°M57'29	0.56247 AU
inferior conj	8626 Nov 04 18:39	18°ML08'09		mm. Earth dist.	8627 Oct 15 17:38	30°R Ω	0.30217110
minimum elong	8626 Nov 05 01:02		5°05'47	inferior conj	8627 Oct 16 13:49	29° ₽ 28'36	-5°36'02
morning rise	8626 Nov 12 21:38	17 ML3030	3 0347	minimum elong	8627 Oct 16 15:49 8627 Oct 16 15:00	29° £ 26'45	
direct	8626 Nov 15 05:19	13°M30'33		Č		29 ⊆ 20 43 25° ⊆ 28'57	3 33 33
asc. node	8626 Nov 23 20:21	13 1163033 17°M42'26		morning rise direct	8627 Oct 24 22:35 8627 Oct 27 14:52	25° £ 10'07	
			10045122				19°46'12
morning max el	8626 Nov 23 18:32	17° ™ .38'03 0° <i>≯</i> ′	18°45'32	morning max el	8627 Nov 06 13:00	29° £ 51'12 0° I L	19-46-12
	8626 Dec 02 17:04			1	8627 Nov 06 16:42		
morning set	8626 Dec 10 01:53	13° ∡ ′47′05		asc. node	8627 Nov 10 17:21	4°M36'12	
	8626 Dec 18 10:42	0°₹		morning set	8627 Nov 24 05:44	28° ™ 19'38	
					9/27 N 25 01-22	00.7	
aumorior coni	9626 Day 19 16:24	00=226150	1909122		8627 Nov 25 01:33	0° ∡ ¹	
superior conj	8626 Dec 18 16:24	0° る 26'59	1°08'33	gunorior goni			1027114
minimum elong	8626 Dec 18 19:44	0° る 42'41	1°08'20	superior conj	8627 Dec 02 01:43	14° √ 09'07	1°27'14
minimum elong max. Earth dist.	8626 Dec 18 19:44 8626 Dec 25 20:30	0°ත්42'41 13°ත්32'43		minimum elong	8627 Dec 02 01:43 8627 Dec 02 04:16	14° ₰ 09'07 14° ₰ 21'46	1°27'11
minimum elong max. Earth dist. desc. node	8626 Dec 18 19:44 8626 Dec 25 20:30 8626 Dec 28 09:19	0°ප්42'41 13°ප්32'43 17°ප්57'14	1°08'20		8627 Dec 02 01:43 8627 Dec 02 04:16 8627 Dec 08 02:37	14° ₹ 09'07 14° ₹ 21'46 25° ₹ 46'52	
minimum elong max. Earth dist.	8626 Dec 18 19:44 8626 Dec 25 20:30 8626 Dec 28 09:19 8626 Dec 29 20:24	0°ත්42'41 13°ත්32'43 17°ත්57'14 20°ත්26'44	1°08'20	minimum elong max. Earth dist.	8627 Dec 02 01:43 8627 Dec 02 04:16 8627 Dec 08 02:37 8627 Dec 10 09:38	14°×109'07 14°×121'46 25°×146'52 0°る	1°27'11
minimum elong max. Earth dist. desc. node	8626 Dec 18 19:44 8626 Dec 25 20:30 8626 Dec 28 09:19 8626 Dec 29 20:24 8627 Jan 04 15:49	0°ත්42'41 13°ත්32'43 17°ත්57'14 20°ත්26'44 0°≈	1°08'20	minimum elong max. Earth dist.	8627 Dec 02 01:43 8627 Dec 02 04:16 8627 Dec 08 02:37 8627 Dec 10 09:38 8627 Dec 11 20:20	14° 🖈 09'07 14° 🖈 21'46 25° 🖈 46'52 0° 궁 2° 궁 36'12	1°27'11
minimum elong max. Earth dist. desc. node evening rise	8626 Dec 18 19:44 8626 Dec 25 20:30 8626 Dec 28 09:19 8626 Dec 29 20:24 8627 Jan 04 15:49 8627 Jan 25 10:19	0°ත්42'41 13°ත්32'43 17°ත්57'14 20°ත්26'44 0°≈ 0°)੯	1°08'20 1.39555 AU	minimum elong max. Earth dist.	8627 Dec 02 01:43 8627 Dec 02 04:16 8627 Dec 08 02:37 8627 Dec 10 09:38 8627 Dec 11 20:20 8627 Dec 15 06:20	14° 🗷 09'07 14° 🗷 21'46 25° 🗷 46'52 0° उ 2° उ 36'12 8° る 34'54	1°27'11
minimum elong max. Earth dist. desc. node evening rise	8626 Dec 18 19:44 8626 Dec 25 20:30 8626 Dec 28 09:19 8626 Dec 29 20:24 8627 Jan 04 15:49 8627 Jan 25 10:19 8627 Feb 02 21:39	0°♂42'41 13°♂32'43 17°♂57'14 20°♂26'44 0°≈ 0°升 9°升43'25	1°08'20	minimum elong max. Earth dist. evening rise desc. node	8627 Dec 02 01:43 8627 Dec 02 04:16 8627 Dec 08 02:37 8627 Dec 10 09:38 8627 Dec 11 20:20 8627 Dec 15 06:20 8627 Dec 28 18:27	14° ₹09'07 14° ₹21'46 25° ₹46'52 0° ₹ 2° ₹36'12 8° ₹34'54 0° ≈	1°27'11 1.37397 AU
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde	8626 Dec 18 19:44 8626 Dec 25 20:30 8626 Dec 28 09:19 8626 Dec 29 20:24 8627 Jan 04 15:49 8627 Feb 02 21:39 8627 Feb 14 02:54	0°♂42'41 13°♂32'43 17°♂57'14 20°♂26'44 0°≈ 0°¥ 9°¥43'25 16°¥18'23	1°08'20 1.39555 AU	minimum elong max. Earth dist.	8627 Dec 02 01:43 8627 Dec 02 04:16 8627 Dec 08 02:37 8627 Dec 10 09:38 8627 Dec 11 20:20 8627 Dec 15 06:20 8627 Dec 28 18:27 8628 Jan 16 10:54	14° 🗷 09'07 14° 🗷 21'46 25° 🗷 46'52 0° 号 2° 弓 36'12 8° 弓 34'54 0° 無 23° ≈ 31'27	1°27'11 1.37397 AU
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set	8626 Dec 18 19:44 8626 Dec 25 20:30 8626 Dec 28 09:19 8626 Dec 29 20:24 8627 Jan 04 15:49 8627 Feb 02 21:39 8627 Feb 14 02:54 8627 Feb 19 11:00	0°₹42'41 13°₹32'43 17°₹57'14 20°₹26'44 0°≈ 0°¥ 9°¥43'25 16°¥18'23 14°¥04'53	1°08'20 1.39555 AU	minimum elong max. Earth dist. evening rise desc. node evening max el	8627 Dec 02 01:43 8627 Dec 02 04:16 8627 Dec 08 02:37 8627 Dec 10 09:38 8627 Dec 11 20:20 8627 Dec 15 06:20 8627 Dec 28 18:27 8628 Jan 16 10:54 8628 Jan 25 15:10	14° 🗷 09'07 14° 🗷 21'46 25° 🗷 46'52 0° 云 2° 云 36'12 8° 云 34'54 0° 窓 23° 窓 31'27 0°)	1°27'11 1.37397 AU
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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	8626 Dec 18 19:44 8626 Dec 25 20:30 8626 Dec 28 09:19 8626 Dec 29 20:24 8627 Jan 04 15:49 8627 Feb 02 21:39 8627 Feb 14 02:54 8627 Feb 19 11:00 8627 Feb 19 19:27 8627 Feb 24 03:39 8627 Feb 24 22:47 8627 Feb 24 20:49 8627 Mar 02 06:40 8627 Mar 06 05:14 8627 Mar 13 23:39 8627 Mar 26 09:05 8627 Apr 01 22:43	0°♂42'41 13°♂32'43 17°♂57'14 20°♂26'44 0°≈ 0°ℋ 9°ℋ43'25 16°ℋ18'23 14°ℋ04'53 13°ℋ46'21 8°ℋ41'05 7°ℋ36'29 7°ℋ43'08 1°ℋ34'38 0°ℋ06'13 4°ℋ29'49 20°ℋ20'24	1°08'20 1.39555 AU 24°10'58 0.68163 AU 1°36'50 1°36'14	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct	8627 Dec 02 01:43 8627 Dec 02 04:16 8627 Dec 08 02:37 8627 Dec 10 09:38 8627 Dec 11 20:20 8627 Dec 15 06:20 8627 Dec 28 18:27 8628 Jan 16 10:54 8628 Jan 25 15:10 8628 Jan 28 15:04 8628 Feb 03 11:54 8628 Feb 04 16:32 8628 Feb 07 21:18 8628 Feb 09 03:56 8628 Feb 09 02:46 8628 Feb 14 18:00 8628 Feb 18 04:28	14° 🛪 09'07 14° 🛪 21'46 25° 🛪 46'52 0° 🛪 2° 🛪 36'12 8° 🛪 34'54 0° ≈ 23° ≈ 31'27 0° 升 0° 升 32'11 30° R≈ 28° ≈ 06'48 24° ≈ 47'18 23° ≈ 17'48 21° ≈ 39'12 21° ≈ 42'57 15° ≈ 45'33 14° ≈ 37'42	1°27'11 1.37397 AU 25°26'03 0.67487 AU 0°48'29 0°48'10
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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 morning set max. Earth dist. superior conj minimum elong	8626 Dec 18 19:44 8626 Dec 25 20:30 8626 Dec 28 09:19 8626 Dec 29 20:24 8627 Jan 04 15:49 8627 Feb 02 21:39 8627 Feb 14 02:54 8627 Feb 19 11:00 8627 Feb 19 19:27 8627 Feb 24 20:49 8627 Feb 24 20:49 8627 Mar 02 06:40 8627 Mar 02 06:40 8627 Mar 02 06:40 8627 Apr 10 23:54 8627 Apr 10 23:54 8627 Apr 20 19:02 8627 Apr 20 19:02 8627 Apr 20 19:02 8627 Apr 26 18:59 8627 Apr 26 20:57 8627 May 09 05:16 8627 May 09 12:36 8627 May 18 18:15 8627 May 26 22:10	0°♂42'41 13°♂32'43 17°♂57'14 20°♂26'44 0°≈ 0°¥ 9°¥43'25 16°¥18'23 14°¥04'53 13°¥46'21 8°¥41'05 7°¥36'29 7°¥43'08 1°¥34'38 0°¥06'13 4°¥29'49 20°¥20'24 0°° 13°°¥46'14 29°°¥10'34 0°° 8°¥55'12 9°¥03'19 0°Ⅱ 0°Ⅲ31'48 16°Ⅲ17'11 27°Ⅲ25'18	1°08'20 1.39555 AU 24°10'58 0.68163 AU 1°36'50 1°36'14 20°15'37 1.43828 AU -2°11'12 2°11'18	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj	8627 Dec 02 01:43 8627 Dec 02 04:16 8627 Dec 08 02:37 8627 Dec 10 09:38 8627 Dec 11 20:20 8627 Dec 15 06:20 8627 Dec 28 18:27 8628 Jan 16 10:54 8628 Jan 25 15:10 8628 Jan 28 15:04 8628 Feb 03 11:54 8628 Feb 04 16:32 8628 Feb 07 21:18 8628 Feb 09 03:56 8628 Feb 09 02:46 8628 Feb 14 18:00 8628 Feb 14 18:00 8628 Feb 15 04:27 8628 Mar 05 06:46 8628 Mar 09 07:46 8628 Mar 12 06:00 8628 Mar 24 23:25 8628 Apr 05 14:48 8628 Apr 05 19:49 8628 Apr 05 09:49 8628 Apr 05 09:49 8628 Apr 05 09:49	14° 🛪 09'07 14° 🛪 21'46 25° 🛪 46'52 0° 🛪 2° 🛪 36'12 8° 🛪 34'54 0° ≈ 23° ≈ 31'27 0° 升 0° 升 32'11 30° R≈ 28° ≈ 06'48 24° ≈ 47'18 23° ≈ 17'48 21° ≈ 39'12 21° ≈ 42'57 15° ≈ 45'33 14° ≈ 37'42 18° ≈ 29'03 0° 升 5° 升 57'14 10° 升 22'45 22° 升 18'56 0° ϒ 13° ϒ 12'11 18° ϒ 15'28 17° ϒ 55'40 0° ႘	1°27'11 1.37397 AU 25°26'03 0.67487 AU 0°48'29 0°48'10 19°13'58 -0.7m 1.45031 AU -2°07'22
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 morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde	8626 Dec 18 19:44 8626 Dec 25 20:30 8626 Dec 28 09:19 8626 Dec 29 20:24 8627 Jan 04 15:49 8627 Feb 02 21:39 8627 Feb 14 02:54 8627 Feb 19 11:00 8627 Feb 19 19:27 8627 Feb 24 20:49 8627 Feb 24 22:47 8627 Feb 24 20:49 8627 Mar 02 06:40 8627 Mar 02 06:40 8627 Mar 02 06:40 8627 Apr 10 23:54 8627 Apr 10 23:54 8627 Apr 20 19:02	0°♂42'41 13°♂32'43 17°♂57'14 20°♂26'44 0°≈ 0°¥ 9°¥43'25 16°¥18'23 14°¥04'53 13°¥46'21 8°¥41'05 7°¥36'29 7°¥43'08 1°¥34'38 0°¥06'13 4°¥29'49 20°¥20'24 0°° 13°°¥46'14 29°°¥10'34 0°° 8°¥55'12 9°¥03'19 0°Ⅱ 0°Ⅲ31'48 16°Ⅲ17'11 27°Ⅲ25'18	1°08'20 1.39555 AU 24°10'58 0.68163 AU 1°36'50 1°36'14 20°15'37 1.43828 AU -2°11'12 2°11'18	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj minimum elong	8627 Dec 02 01:43 8627 Dec 02 04:16 8627 Dec 08 02:37 8627 Dec 10 09:38 8627 Dec 11 20:20 8627 Dec 15 06:20 8627 Dec 28 18:27 8628 Jan 16 10:54 8628 Jan 25 15:10 8628 Jan 28 15:04 8628 Feb 03 11:54 8628 Feb 04 16:32 8628 Feb 09 03:56 8628 Feb 09 02:46 8628 Feb 09 02:46 8628 Feb 14 18:00 8628 Feb 14 18:00 8628 Feb 15 04:27 8628 Mar 05 06:46 8628 Mar 09 07:46 8628 Mar 12 06:00 8628 Mar 20 00:26 8628 Apr 05 14:48 8628 Apr 05 14:48 8628 Apr 05 09:49	14° ₹09'07 14° ₹21'46 25° ₹46'52 0° ₹ 2° ₹36'12 8° ₹34'54 0° ≈ 23° ≈31'27 0° ₹ 0° ₹32'11 30° ₹≈ 28° ≈06'48 24° ≈47'18 23° ≈17'48 21° ≈42'57 15° ≈45'33 14° ≈37'42 18° ≈29'03 0° ₹ 5° ₹57'14 10° ₹22'45 22° ₹18'56 0° ₹ 13° ₹12'11	1°27'11 1.37397 AU 25°26'03 0.67487 AU 0°48'29 0°48'10 19°13'58 -0.7m 1.45031 AU -2°07'22
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 morning set max. Earth dist. superior conj minimum elong	8626 Dec 18 19:44 8626 Dec 25 20:30 8626 Dec 28 09:19 8626 Dec 29 20:24 8627 Jan 04 15:49 8627 Feb 02 21:39 8627 Feb 14 02:54 8627 Feb 19 11:00 8627 Feb 19 19:27 8627 Feb 24 20:49 8627 Feb 24 22:47 8627 Feb 24 20:49 8627 Mar 02 06:40 8627 Mar 02 06:40 8627 Mar 02 06:40 8627 Apr 10 23:54 8627 Apr 10 23:54 8627 Apr 20 19:02	0°♂42'41 13°♂32'43 17°♂57'14 20°♂26'44 0°≈ 0°¥ 9°¥43'25 16°¥18'23 14°¥04'53 13°¥46'21 8°¥41'05 7°¥36'29 7°¥43'08 1°¥34'38 0°¥06'13 4°¥29'49 20°¥20'24 0°° 13°°¥46'14 29°°¥10'34 0°³ 8°\$55'12 9°\$03'19 0°¶ 0°¶31'48 16°¶17'11 27°¶25'18 0°©	1°08'20 1.39555 AU 24°10'58 0.68163 AU 1°36'50 1°36'14 20°15'37 1.43828 AU -2°11'12 2°11'18	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj minimum elong	8627 Dec 02 01:43 8627 Dec 02 04:16 8627 Dec 08 02:37 8627 Dec 10 09:38 8627 Dec 11 20:20 8627 Dec 15 06:20 8627 Dec 28 18:27 8628 Jan 16 10:54 8628 Jan 25 15:10 8628 Jan 28 15:04 8628 Feb 03 11:54 8628 Feb 04 16:32 8628 Feb 07 21:18 8628 Feb 09 03:56 8628 Feb 09 02:46 8628 Feb 14 18:00 8628 Feb 14 18:00 8628 Feb 15 04:27 8628 Mar 05 06:46 8628 Mar 09 07:46 8628 Mar 12 06:00 8628 Mar 24 23:25 8628 Apr 05 14:48 8628 Apr 05 19:49 8628 Apr 05 09:49 8628 Apr 05 09:49 8628 Apr 05 09:49	14° 🛪 09'07 14° 🛪 21'46 25° 🛪 46'52 0° 🛪 2° 🛪 36'12 8° 🛪 34'54 0° ≈ 23° ≈ 31'27 0° 升 0° 升 32'11 30° R≈ 28° ≈ 06'48 24° ≈ 47'18 23° ≈ 17'48 21° ≈ 39'12 21° ≈ 42'57 15° ≈ 45'33 14° ≈ 37'42 18° ≈ 29'03 0° 升 5° 升 57'14 10° 升 22'45 22° 升 18'56 0° ϒ 13° ϒ 12'11 18° ϒ 15'28 17° ϒ 55'40 0° ႘	1°27'11 1.37397 AU 25°26'03 0.67487 AU 0°48'29 0°48'10 19°13'58 -0.7m

evening max el	8628 May 09 11:16	10° I I52'08	18°22'31		8629 Mar 17 17:27	0° Υ	
retrograde	8628 May 15 21:16	14° I I19'09	10 22 31	evening rise	8629 Mar 31 15:46	21°Υ53'54	
evening set	8628 May 18 22:40	13° Ⅱ 27'40		evening rise	8629 Apr 05 18:39	0°8	
inferior conj	8628 May 24 18:53		3°12'40	greatest brilliancy	8629 Apr 10 01:58	6° 8 45'48	-0.8m
minimum elong	8628 May 24 20:23	7° Ⅱ 55'43	3°12'18	asc. node	8629 Apr 21 12:24	22° 8 56'51	
min. Earth dist.	8628 May 27 02:33	5° Ⅱ 18'50	0.64312 AU	evening max el	8629 Apr 22 21:38	24° 8 26'08	18°56'19
morning rise	8628 May 30 17:04	1° Ⅱ 44'46		retrograde	8629 Apr 29 16:10	28° 8 12'29	
. 8	8628 Jun 02 09:14	30° ₹ 8		evening set	8629 May 03 01:06	27° 8 06'39	
direct	8628 Jun 06 09:42	29° 8 02'28		inferior conj	8629 May 08 14:07	21° 8 22'55	3°22'27
desc. node	8628 Jun 08 05:44	29° 8 13'25		minimum elong	8629 May 08 14:18	21° 8 22'20	3°22'18
	8628 Jun 10 17:08	$\Pi^{\circ}0$		min. Earth dist.	8629 May 10 06:30	19° 8 15'37	0.65995 AU
morning max el	8628 Jun 20 02:22	7° Ⅲ 01'53	27°29'48	morning rise	8629 May 14 02:58	15° 8 04'23	
	8628 Jul 07 17:29	0°€		direct	8629 May 20 12:37	12° 8 18'11	
	8628 Jul 24 21:58	$0^{\circ}\Omega$		desc. node	8629 May 26 02:43	14° 8 00'11	
morning set	8628 Jul 25 06:29	0° Ω 41'50		morning max el	8629 Jun 02 12:58	20° 8 02'29	26°34'12
max. Earth dist.	8628 Jul 30 00:56	10° Ω 21'14	1.33093 AU		8629 Jun 11 01:28	Π $^{\circ}0$	
asc. node	8628 Jul 31 14:35	13° Ω 38′22			8629 Jun 30 19:56	0 \circ \odot	
				morning set	8629 Jul 08 11:20	13° 5 46'44	
superior conj	8628 Aug 02 08:38	17° Ω 21'35	0°17'38	max. Earth dist.	8629 Jul 12 13:49	21°5642'40	1.34524 AU
minimum elong	8628 Aug 02 07:46	17° Ω 16′59	0°17'18		8629 Jul 16 16:20	$0^{\circ}\Omega$	
	8628 Aug 08 05:39	0° m					
evening rise	8628 Aug 09 10:45	2° M 35'09		superior conj	8629 Jul 17 07:24	1° Ω 17'42	
	8628 Aug 24 12:01	0∘ ত		minimum elong	8629 Jul 17 08:04	1° Ω 21′08	0°11'48
evening max el	8628 Aug 31 05:18	8° ഫ 03'40	22°33'11	behind sun begin	8629 Jul 17 04:04	1° Ω 00′29	
desc. node	8628 Sep 04 04:38	11° ≏ 23'21		behind sun end	8629 Jul 17 12:04	1° Ω 41'48	
retrograde	8628 Sep 13 06:43	14° ≏ 34'27		asc. node	8629 Jul 18 11:33	3° Ω 43'44	
evening set	8628 Sep 16 17:09	14° ഫ 08'30		evening rise	8629 Jul 24 20:09	17° Ω 03'52	
min. Earth dist.	8628 Sep 24 12:23		0.55039 AU		8629 Jul 31 07:49	0°Щ	
inferior conj	8628 Sep 25 14:50	10° ≏ 03'30		evening max el	8629 Aug 13 00:59	18° m 31'58	21°01'12
minimum elong	8628 Sep 25 08:26	10° £ 12'35	5°16'41	desc. node	8629 Aug 22 01:44	24° Mp 03'15	
morning rise	8628 Oct 04 01:35	6° ≏ 15'37		retrograde	8629 Aug 24 19:21	24° m 21'47	
direct	8628 Oct 07 06:39	5° £ 52'10		evening set	8629 Aug 27 01:47	24° Mp 09'38	
morning max el	8628 Oct 18 18:23		21°09'00	inferior conj	8629 Sep 05 07:19	20° m 12'52	
asc. node	8628 Oct 27 14:18	22° Ω 26'28		minimum elong	8629 Sep 04 21:43	20° m/26'26	4°01'16
	8628 Oct 31 23:53	0°M		min. Earth dist.	8629 Sep 05 21:13	19° m 53'11	0.54677 AU
morning set	8628 Nov 07 14:11	13°M03'29		morning rise	8629 Sep 13 18:00	16° Mp 17'31	
	0.620 N 14 21 52	200 m 21146	1027147	direct	8629 Sep 17 14:33	15° Mp 45'36	22040100
superior conj	8628 Nov 14 21:52	28°M21'46	1°37'47	morning max el	8629 Sep 30 12:27	21° m 55'32	22°49'09
minimum elong	8628 Nov 14 23:11	28°M28'30	1°37'54	asc. node	8629 Oct 07 11:56	0∘ ⊽	
max. Earth dist.	8628 Nov 15 16:57 8628 Nov 19 12:27	0° ₰ 7° ₰ 41'28	1.35422 AU	morning set	8629 Oct 14 11:15 8629 Oct 23 01:11	11° ♀ 00'12 27° ♀ 52'44	
evening rise	8628 Nov 23 14:18	15° х 33'10	1.33422 AU	morning set	8629 Oct 24 01:10	0°M	
desc. node	8628 Dec 01 03:22	29° × 02'32			8029 OCt 24 01.10	U IIG	
desc. Hode	8628 Dec 01 03:22	29 メ ・02 32		superior conj	8629 Oct 30 01:31	12°M55'01	1°41'10
	8628 Dec 22 08:24	0°≈		minimum elong	8629 Oct 30 01:31	12°M55'05	1°41'19
evening max el	8628 Dec 29 00:03	7°≈16'16	26°28'55	max. Earth dist.	8629 Nov 02 05:42	19°M37'05	1.33800 AU
retrograde	8629 Jan 10 22:04	14°≈32'17	20 20 33	evening rise	8629 Nov 06 22:28	29°M08'11	1.55000 710
evening set	8629 Jan 17 07:02	11°≈58'39		evening rise	8629 Nov 07 09:03	0° √	
min. Earth dist.	8629 Jan 21 10:02	7°≈44'22	0.66431 AU	desc. node	8629 Nov 18 00:25	19° х 14'48	
inferior conj	8629 Jan 23 04:19	5° ≈ 37'07			8629 Nov 24 20:05	0°ਰ	
minimum elong	8629 Jan 23 04:31	5°≈36'30	0°07'29	evening max el	8629 Dec 11 13:02	20° る 49'49	27°12'21
transit middle	8629 Jan 23 04:31	5°≈36'30	0°07'29	retrograde	8629 Dec 24 23:21	28° ට 11'03	
transit begin	8629 Jan 23 01:57	5° ≈ 44'14		evening set	8629 Dec 31 18:20	25° る 35'09	
transit end	8629 Jan 23 07:05	5°≈28'46		min. Earth dist.	8630 Jan 04 15:46	21° る 54'34	0.65015 AU
asc. node	8629 Jan 23 13:37	5°≈09'11		inferior conj	8630 Jan 06 21:44	19° る 25'33	-1°11'06
	8629 Jan 28 22:31	30°Ŗる		minimum elong	8630 Jan 06 23:51	19° る 19'39	1°10'01
morning rise	8629 Jan 29 02:53	29° ප් 53'46		asc. node	8630 Jan 10 10:39	15° ⋜ 49'46	
direct	8629 Feb 01 02:43	29° る 03'28		morning rise	8630 Jan 13 06:50	13° る 54'58	
	8629 Feb 04 09:01	0° ≈		direct	8630 Jan 15 21:54	13° る 18'29	
morning max el	8629 Feb 07 16:06	2° ≈ 35'13	18°28'19	morning max el	8630 Jan 22 08:08	16° ප් 41'43	17°59'27
-	8629 Feb 26 16:13	0°) €		-	8630 Feb 01 01:29	0° ≈	
desc. node	8629 Feb 27 02:54	0°) 42′23		morning set	8630 Feb 09 02:29	13° ≈ 11'17	
morning set	8629 Feb 27 22:38	2°) €00'40		desc. node	8630 Feb 13 23:50	21° ≈ 14'35	
					8630 Feb 19 09:21	0°) €	
superior conj	8629 Mar 15 20:30	27°) 04′07	-1°43'18				
minimum elong	8629 Mar 15 10:58	26° ∺ 26'48	1°42'25	superior conj	8630 Feb 23 06:47	6° ℋ 13'16	
max. Earth dist.	8629 Mar 16 04:48	27°) € 36'35	1.45531 AU	minimum elong	8630 Feb 22 23:28	5°) 44'12	1°02'57

max. Earth dist.	8630 Feb 27 00:16 8630 Mar 10 12:21	12°) €06'42 0° °	1.45288 AU	desc. node	8631 Jan 31 20:46	11° ≈ 54′23	
evening rise	8630 Mar 11 10:11	1° Υ 24'12		superior conj	8631 Feb 03 13:18	16° ≈ 22'29	-0°19'38
greatest brilliancy	8630 Mar 25 10:44	22° Y 42'31	-0.6m	minimum elong	8631 Feb 03 11:14	16° ≈ 13'57	
· ·	8630 Mar 30 13:07	0°8		max. Earth dist.	8631 Feb 09 18:10	26° ≈ 26'31	1.44334 AU
evening max el	8630 Apr 06 03:31	8° 8 04'12	19°46'29		8631 Feb 11 23:54	0°) €	
asc. node	8630 Apr 08 09:29	10° 8 06'58		evening rise	8631 Feb 18 21:22	10°) 44′50	
retrograde	8630 Apr 13 14:02	12° 8 20'29			8631 Mar 03 16:36	0° Y	
evening set	8630 Apr 17 07:18	10° 8 59'47		evening max el	8631 Mar 20 04:00	21° Y ′44'09	20°50'44
inferior conj	8630 Apr 22 16:13	5° 8 01'42	3°18'03	asc. node	8631 Mar 26 06:36	26° Y 12'36	
minimum elong	8630 Apr 22 15:15	5° 8 04'54	3°17'51	retrograde	8631 Mar 28 12:35	26° Ƴ 38'15	
min. Earth dist.	8630 Apr 23 17:52	3° 8 36'01	0.67258 AU	evening set	8631 Apr 01 15:17	25° Y ′02'16	
	8630 Apr 26 16:15	30° ₹Ƴ		inferior conj	8631 Apr 06 22:34	18° Y 51'50	3°02'02
morning rise	8630 Apr 27 22:54	28° Y 43'40		minimum elong	8631 Apr 06 20:48	18° Y 57'56	3°01'39
direct	8630 May 03 21:43	26° Y ′04′28		min. Earth dist.	8631 Apr 07 10:31	18° Y 10'36	0.68069 AU
	8630 May 12 09:03	9° 8		morning rise	8631 Apr 12 02:06	12° Y 36'39	
desc. node	8630 May 12 23:42	0° 8 30'48		direct	8631 Apr 17 11:55	10° Y 12'49	
morning max el	8630 May 15 22:40	3° 8 17'41	25°17'15	morning max el	8631 Apr 28 07:43	16° Ƴ 40'43	23°49'19
	8630 Jun 05 06:57	Π $^{\circ}0$		desc. node	8631 Apr 29 20:40	18° Ƴ 17'26	
morning set	8630 Jun 21 00:34	26° Ⅱ 04'54			8631 May 09 08:18	0°8	
	8630 Jun 23 04:15	0 \circ \odot			8631 May 29 07:15	Π °0	
max. Earth dist.	8630 Jun 24 15:58	2° © 45'41	1.36401 AU	morning set	8631 Jun 02 16:57	7° Ⅱ 22'46	
				max. Earth dist.	8631 Jun 06 12:19	13° Ⅱ 59'54	1.38589 AU
superior conj	8630 Jun 30 20:56	14°5643'40					
minimum elong	8630 Jun 30 23:35	14° © 56'48	0°43'06	superior conj	8631 Jun 13 21:44	27° Ⅲ 31'12	
asc. node	8630 Jul 05 08:32	23°5644'53		minimum elong	8631 Jun 14 02:26	27° Ⅱ 53'25	1°14'46
	8630 Jul 08 10:14	0°Ω			8631 Jun 15 05:06	0°®	
evening rise	8630 Jul 09 01:21	1° Ω 16'39	10046125	asc. node	8631 Jun 22 05:34	13°538'02	
evening max el	8630 Jul 26 09:52	29° Ω 41′20	19°46'35	evening rise	8631 Jun 22 23:43	15°506'51	
	8630 Jul 26 17:32	0° Mp		·	8631 Jun 30 22:41	0°N	10052121
retrograde	8630 Aug 05 11:21	4° m 39'22		evening max el	8631 Jul 09 07:17	11° Ω 35'47	18°52'31
evening set desc. node	8630 Aug 07 07:54	4° Mp 29'58		retrograde	8631 Jul 17 18:27 8631 Jul 19 17:43	15° Ω 47'36 15° Ω 34'51	
	8630 Aug 08 22:51	4°Mp07'16	2012125	evening set desc. node		$13^{\circ} \Omega 01'58$	
inferior conj minimum elong	8630 Aug 16 05:41 8630 Aug 15 23:36	0° mp 28'14 0° mp 37'38		inferior conj	8631 Jul 26 19:57 8631 Jul 27 21:38	12 δ (01 38 11° Ω 16'36	0°10'34
minimum clong	8630 Aug 16 23:55	0 iių3738 30°RΩ	2 11 13	minimum elong	8631 Jul 27 20:49	11° Ω 18'03	0°19'25
min. Earth dist.	8630 Aug 18 08:37	29° Ω 09'44	0.55279 AU	min. Earth dist.	8631 Jul 30 23:47	9° Ω 05'02	0.56733 AU
morning rise	8630 Aug 24 13:15	26°Ω05'50	0.33217 AU	morning rise	8631 Aug 04 20:37	6° Ω 17'38	0.50755 AC
direct	8630 Aug 29 04:43	25° Ω 18'11		direct	8631 Aug 10 08:15	5° Ω 05'34	
ancet	8630 Sep 09 13:05	0° m)		morning max el	8631 Aug 24 14:46	12° Ω 29'17	26°10'53
morning max el	8630 Sep 12 00:53	2° mp 10'23	24°35'14	morning max or	8631 Sep 07 06:58	0° m)	20 10 33
asc. node	8630 Oct 01 08:13	0° £ 06'26	2. 551.	asc. node	8631 Sep 18 05:11	19° m 36'31	
ase. noue	8630 Oct 01 06:52	0∘ ⊽		morning set	8631 Sep 21 23:49	27° m) 25'58	
morning set	8630 Oct 07 12:56	12° Ω 41'45		<i>5 5 1 1 1 1 1 1 1 1 1 1</i>	8631 Sep 23 04:33	0∘ <u>⊽</u>	
C					1		
superior conj	8630 Oct 14 09:57	27° £ 40′09	1°38'10	superior conj	8631 Sep 28 21:03	12° ≏ 30'24	1°29'26
minimum elong	8630 Oct 14 08:52	27° ≏ 34'12	1°38'13	minimum elong	8631 Sep 28 19:11	12° ≏ 20'05	1°29'17
-	8630 Oct 15 11:36	0° M		max. Earth dist.	8631 Sep 29 14:42	14° ≙ 08'05	1.31889 AU
max. Earth dist.	8630 Oct 16 07:09	1°M45'59	1.32615 AU	evening rise	8631 Oct 05 19:44	27° ≏ 34'30	
evening rise	8630 Oct 21 17:16	13°M11'22			8631 Oct 06 23:44	0° M	
	8630 Oct 30 12:45	0°⊀		desc. node	8631 Oct 22 18:37	28° M21'40	
desc. node	8630 Nov 04 21:30	9° ₰ 04'17			8631 Oct 23 20:46	0° ∡ ¹	
	8630 Nov 20 03:28	0°ರ		evening max el	8631 Nov 06 08:02	16° ∡ ³34′06	27°14'41
evening max el	8630 Nov 24 00:30	4° る 00'07	27°29'28	retrograde	8631 Nov 20 04:44	23° ∡ ¹45'58	
retrograde	8630 Dec 07 17:57	11° る 18'33		evening set	8631 Nov 27 05:50	21° ₹ 31'43	
evening set	8630 Dec 14 19:05	8° る 48'35		min. Earth dist.	8631 Nov 30 22:42	18° ∡ ⁴45'34	0.61311 AU
min. Earth dist.	8630 Dec 18 12:31		0.63284 AU	inferior conj	8631 Dec 04 00:17	16° ∡ °03'59	
inferior conj	8630 Dec 21 05:26	2° る 57'10		minimum elong	8631 Dec 04 06:54	15° ∡ ¹49'26	3°28'20
minimum elong	8630 Dec 21 09:53	2°る46'06	2°18'01	morning rise	8631 Dec 11 10:15	11° ∡ 08'06	
	8630 Dec 24 09:26	30°₹ ⋌		direct	8631 Dec 13 15:24	10° ∡ 747'41	
morning rise	8630 Dec 28 02:39	27° х 42'14		asc. node	8631 Dec 15 04:46	10° ₹ 58'07	
asc. node	8630 Dec 28 07:43	27° 🗷 37'44		morning max el	8631 Dec 20 17:07	14° ∡ ⁷ 21'17	17°54'29
direct	8630 Dec 30 11:17	27° ₹ 15'36			8631 Dec 31 10:11	0°る	
	8631 Jan 05 08:39	0°る	17047151	morning set	8632 Jan 05 09:18	8° る 56'49	
morning max el	8631 Jan 06 01:33	0°る39'47	1/~4/'51		9/22 L 15 21 22	27071457	0021105
morning set	8631 Jan 22 08:14	25° පි 36'43 0°≈		superior conj	8632 Jan 15 21:23 8632 Jan 15 23:11	27°る44'57 27°る52'45	
	8631 Jan 24 21:00	U ~~		minimum elong	0032 Jan 13 23:11	21 03243	0 21 00

	8632 Jan 17 04:40	0° ≈		superior conj	8632 Dec 28 04:36	10°る13'38	0°53'48
desc. node	8632 Jan 18 17:44	0 ∞ 2°≈38'18		minimum elong	8632 Dec 28 04:50	10 3 13 38	0°53'32
max. Earth dist.	8632 Jan 23 08:31	2 ≈38 18 10°≈21'08	1.42779 AU	desc. node	8633 Jan 04 14:43	10 32841 23° る 23'06	0 33 32
evening rise	8632 Jan 29 16:40	10 ≈21 08 20°≈33'01	1.42/19 AU	max. Earth dist.	8633 Jan 04 14.43	23° る 23'06	1.40792 AU
evening rise				max. Earm dist.			1.40/92 AU
	8632 Feb 04 19:16	0° ∀			8633 Jan 08 13:00	0° ≈	
	8632 Feb 26 03:40	0° Υ	22005115	evening rise	8633 Jan 09 06:42	1°≈13'02	
evening max el	8632 Mar 01 23:16	5°Υ25'25	22°05'17		8633 Jan 28 04:57	0°) (°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°	
retrograde	8632 Mar 11 09:55	11° Υ 01'01		evening max el	8633 Feb 12 14:37	19°) €09'20	23°25'03
asc. node	8632 Mar 12 03:44	10° Y 58'13		retrograde	8633 Feb 23 04:41	25° ∺ 24'51	
evening set	8632 Mar 15 23:17	9° Y 09'42		asc. node	8633 Feb 27 00:50	24° € 12'46	
inferior conj	8632 Mar 21 07:01	2° Y 49'27	2°35'59	evening set	8633 Feb 28 05:47	23° ∺ 18′50	
minimum elong	8632 Mar 21 04:50	2° Y 57'07	2°35'26	min. Earth dist.	8633 Mar 05 03:02	17° ∺ 35′27	0.68378 AU
min. Earth dist.	8632 Mar 21 06:18	2° Y 51′59	0.68436 AU	inferior conj	8633 Mar 05 15:39	16° ¥ 52′05	2°00'55
	8632 Mar 23 08:53	30° ₹ ₩		minimum elong	8633 Mar 05 13:28	16° ⊁ 59'36	2°00'17
morning rise	8632 Mar 26 10:13	26°) 38′32		morning rise	8633 Mar 10 21:07	10° ∺ 46'39	
direct	8632 Mar 31 06:03	24°) 35′16		direct	8633 Mar 15 03:09	9° ₩ 05'47	
	8632 Apr 09 14:17	0 ° $\mathbf{\gamma}$		morning max el	8633 Mar 23 11:32	13°) 53′19	20°57'44
morning max el	8632 Apr 09 18:49	0° Ƴ 11'19	22°20'07	desc. node	8633 Apr 02 14:30	26° ₩ 19'41	
desc. node	8632 Apr 15 17:36	6° Ƴ 58'39			8633 Apr 05 05:28	$0^{\circ}\Upsilon$	
	8632 May 02 03:41	9° 8		morning set	8633 Apr 22 19:08	26° Y 20′19	
morning set	8632 May 13 07:14	17° 8 26'58			8633 Apr 25 03:01	0°8	
max. Earth dist.	8632 May 18 10:23	25° 8 56'44	1.40840 AU	max. Earth dist.	8633 Apr 30 14:41	8° 8 47'54	1.42863 AU
	8632 May 20 19:33	$\Pi^{\circ}0$			•		
	,			superior conj	8633 May 07 15:06	20° 8 27'04	-2°05'06
superior conj	8632 May 26 05:20	9° Ⅱ 28'59	-1°44'07	minimum elong	8633 May 07 19:41	20° 8 46'29	2°05'01
minimum elong	8632 May 26 11:15	9° Ⅱ 55'28	1°43'42	Č	8633 May 13 04:07	0°II	
evening rise	8632 Jun 05 11:49	28° II 25'05		evening rise	8633 May 19 09:26	11° Ⅱ 01'35	
e vennig 1150	8632 Jun 06 08:05	0ಂತಿ		asc. node	8633 May 25 23:41	22° I I40'29	
asc. node	8632 Jun 08 02:37	3°9518'14		use. noue	8633 May 30 11:32	0°9	
evening max el	8632 Jun 21 13:43	24°907'35	18°19'04	evening max el	8633 Jun 05 01:23	7° © 07'58	18°05'31
retrograde	8632 Jun 28 20:57	27°947'26	10 1704	retrograde	8633 Jun 11 16:19	10°931'30	10 03 31
evening set	8632 Jul 01 03:07	27° 9 27'15		evening set	8633 Jun 14 06:01	10° © 31'30	
inferior conj	8632 Jul 01 03:07	27° 5 27′13	1°13'39	inferior conj	8633 Jun 20 21:09	5°901'57	2°10'04
	8632 Jul 08 11:19	22° © 43'32	1°12'39		8633 Jun 21 00:08	4°954'41	2°18'05
minimum elong min. Earth dist.	8632 Jul 11 20:39	19° © 59'22	0.58754 AU	minimum elong min. Earth dist.	8633 Jun 24 01:28	1°958'10	0.61001 AU
			0.38/34 AU	min. Earm dist.	8633 Jun 26 08:52		0.61001 AU
desc. node	8632 Jul 12 17:03	19°519'51			8633 Jun 26 08:52 8633 Jun 27 15:47	30°ŖⅡ 29°Ⅱ04'28	
morning rise	8632 Jul 15 20:55	17°515'16		morning rise			
direct	8632 Jul 22 01:30	15°532'43	2502011.5	desc. node	8633 Jun 29 14:05	27° II 58'26	
morning max el	8632 Aug 05 10:45	23°518'20	27°20'15	direct	8633 Jul 04 06:55	26° ∏ 51'50	
	8632 Aug 11 10:48	0°N			8633 Jul 12 20:09	0°©	
	8632 Aug 30 09:13	0° m		morning max el	8633 Jul 18 13:41	4° 9 51'07	27°53'25
asc. node	8632 Sep 04 02:08	9° m ,23′05			8633 Aug 06 07:33	0 \circ Ω	
morning set	8632 Sep 05 08:08	11° m 59'44		morning set	8633 Aug 20 12:02	26° Ω 18'07	
				asc. node	8633 Aug 21 23:06	29° Ω 20'58	
superior conj	8632 Sep 12 08:52	27° mg 19'02	1°15'24		8633 Aug 22 06:31	0° ™	
minimum elong	8632 Sep 12 06:38	27° Mp 06'39	1°15'03	max. Earth dist.	8633 Aug 26 09:44	8° Mp 54'42	1.31812 AU
max. Earth dist.	8632 Sep 12 00:52	26° Mp 34′36	1.31619 AU				
	8632 Sep 13 13:51	0∘ ⊽		superior conj	8633 Aug 27 19:36	12° Mp 00'54	0°56'27
evening rise	8632 Sep 19 03:17	12° ≏ 09'24		minimum elong	8633 Aug 27 17:29	11°Mp49'12	0°55'59
	8632 Sep 28 03:17	0° M		evening rise	8633 Sep 03 13:51	26° Mp 50'15	
desc. node	8632 Oct 08 15:44	16°M53'28			8633 Sep 05 01:34	0∘ ⊽	
evening max el	8632 Oct 18 08:42	28°M19'26	26°25'56		8633 Sep 22 03:10	0° M	
	8632 Oct 20 05:37	0° ∡ 7		desc. node	8633 Sep 25 12:51	4°M21'57	
retrograde	8632 Nov 01 06:39	5° ∡ ¹25'18		evening max el	8633 Sep 30 01:07	9° ™ 13'39	25°07'12
evening set	8632 Nov 07 22:08	3° ∡ ³37′00		retrograde	8633 Oct 13 22:09	16°M13′33	
min. Earth dist.	8632 Nov 11 22:03	1° ∡ ¹02'23	0.59214 AU	evening set	8633 Oct 19 15:14	14°M59'20	
	8632 Nov 13 07:08	30°RM		min. Earth dist.	8633 Oct 24 12:43	12°M18'05	0.57220 AU
inferior conj	8632 Nov 15 02:42	28°M35'53	-4°36'21	inferior conj	8633 Oct 27 09:33	10°M23'38	-5°23'59
minimum elong	8632 Nov 15 10:03	28°M21'46		minimum elong	8633 Oct 27 14:17	10°M15'44	
morning rise	8632 Nov 23 00:22	24°ML02'16		morning rise	8633 Nov 04 15:38	6°M12'53	
direct	8632 Nov 25 05:51	23°M44'52		direct	8633 Nov 07 02:13	5°M55'36	
asc. node	8632 Dec 01 01:47	25°M51'31		morning max el	8633 Nov 16 04:40	10°M15'59	19°08'43
morning max el	8632 Dec 03 03:24	27°M36'54	18°20'55	asc. node	8633 Nov 17 22:47	12°M05'51	
	8632 Dec 05 07:50	0° ⊼			8633 Nov 29 06:28	0° ∡ 7	
morning set	8632 Dec 19 00:01	22° х 54'42		morning set	8633 Dec 02 23:59	7° × 17'07	
	8632 Dec 22 17:14	0°る		0 ~			
	1/.17	. •		superior conj	8633 Dec 11 05:47	23° х 33'09	1°17'31
							/

asc. node

8635 Oct 22 16:44

17°**2**36'15

	8635 Oct 29 09:31	0° M .		asc. node	8636 Oct 08 13:43	6° £ 25'01	
mamina aat	8635 Nov 01 15:51	6°M42'13			8636 Oct 16 03:23	0 = 2301 21° = 31'56	
morning set	8033 NOV 01 13.31	0 11642 13		morning set	8636 Oct 20 01:44	0°M	
gunariar aani	8635 Nov 08 19:52	21°M52'13	1°40'02		8030 OCI 20 01.44	U IIL	
superior conj minimum elong	8635 Nov 08 19.32 8635 Nov 08 20:37	21°M56'07	1°40'11	aumariar aani	8636 Oct 23 01:50	6°M31'01	1°40'38
minimum elong		21 IIC3007 0° √ 7	1 40 11	superior conj	8636 Oct 23 01:30 8636 Oct 23 01:21	6°M28'23	1°40'44
may Earth dist	8635 Nov 12 18:23	0° x ′ 0° x ′05'15	1.34686 AU	minimum elong max. Earth dist.		12°M06'43	1.33246 AU
max. Earth dist.	8635 Nov 12 19:25	8° × ⁷ 37'06	1.34080 AU		8636 Oct 25 16:32 8636 Oct 30 16:21	22°M24'46	1.33240 AU
evening rise	8635 Nov 17 03:16			evening rise		22 11624 40 0° 🗷	
desc. node	8635 Nov 26 05:48	25° ₹ 00'58		1 1	8636 Nov 03 14:00		
	8635 Nov 29 06:18	8°0		desc. node	8636 Nov 12 02:52	15° ∡ 04'20	
	8635 Dec 21 19:53	0°≈ 0°≈ -25!54	26050116		8636 Nov 22 00:32	0°る	27022111
evening max el	8635 Dec 22 06:33	0°≈25'54	26°50'16	evening max el	8636 Dec 03 19:10	13°る50'50	2/23/11
retrograde	8636 Jan 04 10:26	7°≈44'36		retrograde	8636 Dec 17 08:40	21°る10'51	
evening set	8636 Jan 10 23:56	5°≈09'31	0.65051.444	evening set	8636 Dec 24 07:04	18°る36'21	0.64210.477
min. Earth dist.	8636 Jan 15 00:35	1°≈09'32	0.65871 AU	min. Earth dist.	8636 Dec 28 02:35	15°る09'29	0.64318 AU
	8636 Jan 16 00:37	30°₹₹		inferior conj	8636 Dec 30 13:21	12°₹34'05	
inferior conj	8636 Jan 16 23:44	28° る 52'25		minimum elong	8636 Dec 30 16:26	12° る 25'54	1°38'20
minimum elong	8636 Jan 17 00:41	28° る 49'37	0°33'11	asc. node	8637 Jan 04 13:07	8° る 01'40	
asc. node	8636 Jan 18 16:02	26° る 57'49		morning rise	8637 Jan 06 03:27	7° る 09'49	
morning rise	8636 Jan 23 02:30	23° る 13'53		direct	8637 Jan 08 15:36	6° る 37'52	
direct	8636 Jan 25 22:27	22° る 29'48		morning max el	8637 Jan 15 02:28	10°る00'02	17°52'25
morning max el	8636 Feb 01 09:29	25° る 56'36	18°13'57		8637 Jan 28 17:59	0° ≈	
	8636 Feb 04 21:48	0° ≈		morning set	8637 Feb 01 02:55	5° ≈ 41'25	
morning set	8636 Feb 20 11:20	23° ≈ 56′50		desc. node	8637 Feb 08 02:13	17° ≈ 21'35	
desc. node	8636 Feb 22 05:16	26° ≈ 45'48					
	8636 Feb 24 05:36	0° ℋ		superior conj	8637 Feb 14 10:49	27° ≈ 44'12	-0°45'10
				minimum elong	8637 Feb 14 05:42	27° ≈ 23'34	0°44'19
superior conj	8636 Mar 06 17:22	18° ∺ 13'35			8637 Feb 15 20:39	0° ∀	
minimum elong	8636 Mar 06 08:02	17°) €36'54	1°26'52	max. Earth dist.	8637 Feb 19 09:24	5°) €37'02	1.44962 AU
max. Earth dist.	8636 Mar 08 13:48	21°) (07′44	1.45523 AU	evening rise	8637 Mar 02 09:05	22°) (42′44	
	8636 Mar 14 06:03	0 ° Υ			8637 Mar 07 03:37	0 ° Υ	
evening rise	8636 Mar 22 19:35	13° Y 21'13		greatest brilliancy	8637 Mar 17 04:06	14° Y 58'32	-0.6m
	8636 Apr 02 13:05	0°8			8637 Mar 28 11:27	9° 8	
greatest brilliancy	8636 Apr 03 08:52	1° 8 15'20	-0.7m	evening max el	8637 Mar 29 15:27	1° 8 14'13	20°12'15
evening max el	8636 Apr 15 11:50	17° 8 35'26	19°15'46	asc. node	8637 Apr 02 11:58	4° 8 27'44	
asc. node	8636 Apr 15 14:52	17° 8 43'03		retrograde	8637 Apr 06 10:37	5° 8 45'53	
retrograde	8636 Apr 22 12:08	21° 8 32'52		evening set	8637 Apr 10 07:49	4° 8 18'29	
evening set	8636 Apr 26 00:36	20° 8 20'35			8637 Apr 14 08:18	30° ŖƳ	
inferior conj	8636 May 01 11:31	14° 8 30'34	3°22'07	inferior conj	8637 Apr 15 15:44	28° Ƴ 14'39	3°12'33
minimum elong	8636 May 01 11:12	14° 8 31'38	3°21'58	minimum elong	8637 Apr 15 14:23	28° Ƴ 19'13	3°12'18
min. Earth dist.	8636 May 02 21:29	12° 8 40'34	0.66592 AU	min. Earth dist.	8637 Apr 16 11:18	27° Y ′08'06	0.67655 AU
morning rise	8636 May 06 21:25	8° 8 12'10		morning rise	8637 Apr 20 20:43	21° Y 57'41	
direct	8636 May 13 02:55	5° 8 27'52		direct	8637 Apr 26 14:06	19° Ƴ 24'31	
desc. node	8636 May 20 05:04	8° 8 11'21		desc. node	8637 May 07 02:03	25° Ƴ 17'24	
morning max el	8636 May 25 17:50	12° 8 59'59	26°03'29	morning max el	8637 May 08 03:17	26° Ƴ 19'39	24°40'43
	8636 Jun 08 10:48	$\Pi^{\circ}0$			8637 May 11 12:32	9° 8	
	8636 Jun 27 06:20	0 \circ \mathfrak{S}			8637 Jun 02 00:35	$\Pi^{\circ}0$	
morning set	8636 Jun 30 19:55	6°\$28'02		morning set	8637 Jun 13 00:59	18° Ⅲ 22'26	
max. Earth dist.	8636 Jul 04 16:33	13° 5 346'11	1.35280 AU	max. Earth dist.	8637 Jun 16 15:54	24° Ⅲ 51'56	1.37312 AU
					8637 Jun 19 10:29	0 \circ \mathfrak{S}	
superior conj	8636 Jul 10 01:29	24°526'00	-0°24'59				
minimum elong	8636 Jul 10 02:57	24° © 33'26	0°24'53	superior conj	8637 Jun 23 10:05	7° 5 36'38	-0°57'03
asc. node	8636 Jul 12 14:01	29° 5 36'11		minimum elong	8637 Jun 23 13:38	7° 9 53'53	0°56'38
	8636 Jul 12 18:38	$0^{\circ}\Omega$		asc. node	8637 Jun 29 11:01	19° © 34'25	
evening rise	8636 Jul 17 20:13	10° Ω 29'59		evening rise	8637 Jul 01 22:54	24° © 34'22	
•	8636 Jul 28 03:56	0° m)			8637 Jul 04 16:44	$0^{\circ}\Omega$	
evening max el	8636 Aug 05 03:57	10° mp 32'19	20°26'57	evening max el	8637 Jul 18 18:20	22° Ω 00'31	19°20'53
retrograde	8636 Aug 16 05:01	16° Mp 00'14		retrograde	8637 Jul 28 02:47	26° Ω 38'03	
desc. node	8636 Aug 16 04:09	16° Mp 00'14		evening set	8637 Jul 29 23:24	26° Ω 27'51	
evening set	8636 Aug 18 05:25	15° m 50'05		desc. node	8637 Aug 03 01:16	25° Ω 02'15	
inferior conj	8636 Aug 27 09:24	11° m 52'43	-3°19'37	inferior conj	8637 Aug 07 14:14	22° Ω 19'40	-1°23'41
minimum elong	8636 Aug 27 00:41	12° Mp 05'22		minimum elong	8637 Aug 07 10:29	22° Ω 25'47	
min. Earth dist.	8636 Aug 28 16:06	11° m 08'09	0.54825 AU	min. Earth dist.	8637 Aug 10 04:52	20° Ω 37'25	0.55809 AU
morning rise	8636 Sep 04 19:23	7° mp 48'19	-	morning rise	8637 Aug 15 18:51	17° Ω 41'56	-
direct	8636 Sep 08 23:47	7° mp 10'45		direct	8637 Aug 20 18:40	16° Ω 45'15	
morning max el	8636 Sep 22 08:24	13° mp 38'47	23°34'28	morning max el	8637 Sep 03 20:52	23° Ω 52'07	25°18'19
<i>3</i> -2	8636 Oct 04 21:32	0∘ ⊽	-	<i>5</i> 2-	8637 Sep 09 10:52	0° m)	
	=- 				-r	4	

asa mada	9627 Can 25 10:42	250m 42!17		direct	9629 Aug 02 04:29	26° © 46'46	
asc. node	8637 Sep 25 10:42	25° Mp42'17 0° <u> </u>		direct	8638 Aug 02 04:28	20 940 40 0°Ω	
morning set	8637 Sep 27 14:16 8637 Sep 30 15:00	0 ≗ 6° £ 19'42		morning max el	8638 Aug 11 06:33 8638 Aug 16 13:09	4° Ω 21'53	26944'10
morning set	803 / Sep 30 13.00	0 == 1942		morning max er	8638 Sep 04 05:14	0° m)	20 44 19
gumariar agni	9627 Oat 07 11:40	21° ≏ 19'10	1025100	asc. node	=	پرانا ک 15° m) 20'00	
superior conj	8637 Oct 07 11:40 8637 Oct 07 10:13	21° ⊆ 1910	1°35'06		8638 Sep 12 07:39 8638 Sep 15 00:59	21° My 00'02	
minimum elong max. Earth dist.	8637 Oct 07 10.13 8637 Oct 08 20:57	21 ≗ 11 08 24° £ 21'46	1.32246 AU	morning set		0° ⊡	
max. Earm dist.	8637 Oct 108 20.37 8637 Oct 11 11:21	0°M	1.32240 AU		8638 Sep 19 04:34	0 ==	
ovanina rica	8637 Oct 11 11:21 8637 Oct 14 14:44	6°ML37'08		superior conj	8638 Sep 21 23:18	6° ≏ 09'35	1024107
evening rise		0 11€3708 0° ⊼ 1			*		
desc. node	8637 Oct 27 02:36	0° × ° 4° × ⁷ 41'33		minimum elong	8638 Sep 21 21:13	5° Ω 58'05	
	8637 Oct 29 23:57		27927115	max. Earth dist.	8638 Sep 22 05:51	6° £ 45'58 21° £ 05'56	1.31711 AU
evening max el	8637 Nov 16 05:06	26° ⊀ 46'40	27°27'15	evening rise	8638 Sep 28 19:38		
	8637 Nov 20 00:03	0°る			8638 Oct 03 03:59	0°M	
retrograde	8637 Nov 30 00:11	4°る03'01		desc. node	8638 Oct 16 21:03	23°M41'21	
evening set	8637 Dec 07 02:24	1°る38'04			8638 Oct 21 10:12	0° ∡ 7	
	8637 Dec 09 06:08	30°R. ✓		evening max el	8638 Oct 29 09:53	9° × ⁷ 00'35	26°58'05
min. Earth dist.	8637 Dec 10 18:47	28° ∡ ³39'41 −	0.62466 AU	retrograde	8638 Nov 12 07:45	16° ∤ 10'41	
inferior conj	8637 Dec 13 16:01	25° ₹ 56'14		evening set	8638 Nov 19 05:56	14° ≯ 06'11	
minimum elong	8637 Dec 13 21:28	25° ҂ 43'22	2°47'52	min. Earth dist.	8638 Nov 23 00:25	11° ≯ ¹26'43	0.60414 AU
morning rise	8637 Dec 20 18:42	20° ҂ 49′23		inferior conj	8638 Nov 26 04:18	8° ₹ 149'17	
asc. node	8637 Dec 22 10:12	20° ҂ 27'42		minimum elong	8638 Nov 26 11:30	8° ₰ 34'17	3°57'30
direct	8637 Dec 23 01:27	20° ∡ ¹25'51		morning rise	8638 Dec 03 19:32	4° ⋌ ¹02'42	
morning max el	8637 Dec 29 19:37	23° ₹ 52'49	17°48'28	direct	8638 Dec 06 00:06	3° ≯ 44'06	
	8638 Jan 03 17:30	0°ರ		asc. node	8638 Dec 09 07:16	4° ∡ °28′18	
morning set	8638 Jan 14 17:41	18° る 32'32		morning max el	8638 Dec 13 09:27	7° ∡¹ 24'45	18°03'14
	8638 Jan 21 06:02	0° ≈			8638 Dec 27 21:08	0°₹	
desc. node	8638 Jan 25 23:10	8° ≈ 03'48		morning set	8638 Dec 29 01:10	2°る10'09	
superior conj	8638 Jan 26 04:17	8° ≈ 25'21	-0°01'35	superior conj	8639 Jan 07 22:44	20° る 17'18	0°36'02
minimum elong	8638 Jan 26 04:08	8° ≈ 24'45	0°01'24	minimum elong	8639 Jan 08 01:25	20° පි 29'16	0°35'49
behind sun begin	8638 Jan 25 19:13	7° ≈ 47'09		desc. node	8639 Jan 12 20:08	28°る48'22	
behind sun end	8638 Jan 26 13:03	9° ≈ 02'15			8639 Jan 13 12:58	0° ≈	
max. Earth dist.	8638 Feb 02 01:55	19° ≈ 47'49	1.43729 AU	max. Earth dist.	8639 Jan 15 13:40	3° ≈ 24'57	1.41968 AU
	8638 Feb 08 12:18	0° ∀		evening rise	8639 Jan 21 00:21	12°≈18'59	
evening rise	8638 Feb 09 21:58	2° 升 10'54		C	8639 Feb 01 12:08	0° ∀	
S	8638 Feb 28 16:19	$_0$ ° $\boldsymbol{\gamma}$		evening max el	8639 Feb 23 06:51	28°) €36'03	22°38'58
evening max el	8638 Mar 12 13:31	14° Ƴ 54'13	21°21'24	C	8639 Feb 24 17:40	$_{0}$ $^{\circ}$ Υ	
asc. node	8638 Mar 20 09:05	20° Ƴ 01'21		retrograde	8639 Mar 05 05:26	4° Y 29'34	
retrograde	8638 Mar 21 09:00	20°Υ06'24		asc. node	8639 Mar 07 06:13	4°Υ08'52	
evening set	8638 Mar 25 16:01	18° Y 23'53		evening set	8639 Mar 09 23:33	2° Υ 32'07	
inferior conj	8638 Mar 30 23:15	12° Υ 08'39	2°52'09	evening sec	8639 Mar 12 10:23	30°R) €	
minimum elong	8638 Mar 30 21:15	12° Υ 15'37	2°51'42	inferior conj	8639 Mar 15 08:00	26°) €08'38	2°22'12
min. Earth dist.	8638 Mar 31 05:40	11° Υ 46'21	0.68273 AU	minimum elong	8639 Mar 15 05:45	26°) 16′27	
morning rise	8638 Apr 05 02:17	5°Υ'54'55	0.00275710	min. Earth dist.	8639 Mar 15 02:14	26° H 28'42	0.68459 AU
direct	8638 Apr 10 06:05	3° Υ 39'33		morning rise	8639 Mar 20 11:49	19°) 59'38	0.00437710
morning max el	8638 Apr 20 12:57	9° Υ 46'18	23°11'01	direct	8639 Mar 25 01:43	18° \ 05'39	
desc. node	8638 Apr 23 23:01	13° Υ 29'30	25 1101	morning max el	8639 Apr 03 01:54	23° H 20'36	21°43'48
desc. flode	8638 May 06 11:39	0° 8		morning max cr	8639 Apr 08 21:32	23 γ (2030	21 43 40
morning set	8638 May 25 06:51	29° 8 10'32		desc. node	8639 Apr 10 19:56	2° Υ 28'55	
morning set	8638 May 25 18:40	0° Ⅱ		desc. Hode	8639 Apr 29 20:15	0° と	
may Earth dist	•		1.39554 AU	marning sat	-	8° 8 42'31	
max. Earth dist.	8638 May 29 11:55	0 Щ2018	1.39334 AU	morning set	8639 May 05 09:22		1 41740 ATT
	0620 I 06 04:07	20°T04102	1020100	max. Earth dist.	8639 May 11 11:41	18° ႘ 37'26 0° Ⅱ	1.41740 AU
superior conj	8638 Jun 06 04:07	20° I I04'02			8639 May 18 04:34	0-Щ	
minimum elong	8638 Jun 06 09:31	20° Ⅱ 28'59	1°2/3/		0/20 1/ 10 02 00	101127142	1054120
	8638 Jun 11 10:53	0°95		superior conj	8639 May 19 03:00	1° Ⅱ 37'42	
evening rise	8638 Jun 15 17:23	8°512'05		minimum elong	8639 May 19 08:46	2° I I02'57	1°54'02
asc. node	8638 Jun 16 08:02	9° 5 22'29		evening rise	8639 May 29 23:51	21° I I13'37	
	8638 Jun 28 06:31	0° Ω	10025146	asc. node	8639 Jun 03 05:05	28° I 55'41	
evening max el	8638 Jul 01 20:03	4°Ω12'00	18°35'46		8639 Jun 03 19:25	0°95	10011100
retrograde	8638 Jul 09 18:07	8° Ω 08'22		evening max el	8639 Jun 15 05:16	16°957'53	18°11'00
evening set	8638 Jul 11 19:56	7° Ω 53'01		retrograde	8639 Jun 22 04:05	20°528'33	
inferior conj	8638 Jul 19 15:23	3° Ω 26′26	0°23'12	evening set	8639 Jun 24 13:32	20°504'09	
minimum elong	8638 Jul 19 16:15	3° Ω 24'47	0°22'42	inferior conj	8639 Jul 01 14:03	15° © 16'57	1°44'43
desc. node	8638 Jul 20 22:21	2° Ω 26'50		minimum elong	8639 Jul 01 16:55	15° © 10'33	1°43'37
min. Earth dist.	8638 Jul 22 22:31	0° Ω 56′06	0.57542 AU	min. Earth dist.	8639 Jul 04 22:36	12° © 18'34	0.59702 AU
	8638 Jul 24 06:29	30° ₹ 5		desc. node	8639 Jul 07 19:25	10° © 06'58	
morning rise	8638 Jul 27 09:02	28° © 11'37		morning rise	8639 Jul 08 17:19	9° 5 32'20	

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Mathematical Math	direct	8639 Jul 15 03:33	7° 9 36'08		morning max el	8640 Jul 10 17:05	27° Ⅱ 18'45	27°55'54
Seal Aug. 10 07.27 Prof. Prof. Seal Aug. 10 07.29 Prof. Pr				27°38'57				
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ase node 869 Agg \$0 61550 Phyll 129 by Jack 4AU max. Earth dist 860 Aug 18 20735 Phyl 129 by Jack 200 by </td <td>morning set</td> <td>•</td> <td></td> <td></td> <td>•</td> <td>•</td> <td></td> <td></td>	morning set	•			•	•		
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Seb Sep 10 1309		*						
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66 Sec odd 863 (Sp. 25 20:18) 0°III. 482 (Sp. 20) 282 (May 1) 28	ovanina rias	-			evening rise	=	•	
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separation on the properties of the proper			0° ∡ ¹		morning max el	8640 Nov 08 12:31	2°M45'32	19°35'49
superior conj	morning set	8639 Dec 12 20:16			asc. node	8640 Nov 12 01:14	6°M41'16	
superior conj 8639 Dec 21 14:10 3°B0845 1°0456 minimum dong 8639 Dec 21 17:31 3°B2428 1°9443 superior conj 8640 Dec 03 21:00 16°A*528 1°2455 max. Earth dist 8639 Dec 32 21:10 16°E3155 1,9882 AU minimum elong 8640 Dec 01 00:10 16°A*5844 1°2451 devening rise 8640 Jan 10 23:43 23°E32343 evening rise 8640 Dec 10 20:27 0°B 1°2707 AU 8640 Jan 26 09:34 0°H evening rise 8640 Dec 10 20:37 5°B2508 1°B evening max el 8640 Feb 22:115 12°H2119 23°5911 6861 Jan 18 10:20 20°B 1°C*10*11 retrograde 8640 Feb 22:245 16°H3219 16°H3219 1°C*10*11		8639 Dec 19 22:09	0° ප		morning set	8640 Nov 25 23:11	0° √ 49'45	
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max. Earth dist. 8639 Dec 28 21:15 16°Z1'55 1.3982 AU minimum elong 8640 Dec 04 00:12 16°Z5'844 124'13 desc. node 8639 Dec 30 17:07 19°Z31'54 max. Earth dist. 8640 Dec 10 03:16 28°Z4'052 1.37707 AU evening rise 8640 Jan 01 23:43 23°E3'2343 8640 Dec 10 03:16 20:37 5°E2'508 1.28	superior conj	8639 Dec 21 14:10	3° る 08'45	1°04'56				
desc. node 8639 Dec 30 17.07 19°B3154 max. Earth dist. 8640 Dec 10 03:16 28° 40′52 1.37707 AU evening rise 8640 an 01 23:35 0°% evening rise 8640 Dec 10 20:27 0°B3 0°% evening rise 8640 Dec 10 20:27 0°B3 0°% evening rise 8640 Pec 12 20:37 5°E32508 1°B104 1°B10	minimum elong	8639 Dec 21 17:31	3° る 24'28	1°04'43	superior conj	8640 Dec 03 21:30	16° ∡ ¹45′23	1°24'55
evening rise 8640 Jan 0 2 3:543 23°E23'43 cevening rise 8640 Dac 10 20:27 0°E Corporation 640 Jan 26 09:34 0°H evening rise 8640 Dec 16 14:07 10°E010'41 evening max el 8640 Feb 05 21:15 12°H21'19 23°59'11 8640 Dec 28 23:20 0°A evening max el 8640 Feb 16 22:34 18°H51'15 evening max el 8641 Dan 18 10:26 26°80'90'9 25°15'26'0 asc, node 8640 Feb 22 0:32:1 16°H39'35' retrograde 8641 Feb 20 6:02:8 0°H 6°H0'80'90'9 25°15'26'0 asc, node 8640 Feb 22 0:32:1 16°H39'35' retrograde 8641 Feb 06 0:33 3°H06'56 0°H1'37' 143'28' 8641 Feb 06 0:33 3°H06'56 0°H2'13' 143'28' 8641 Feb 06 0:33 3°M6'8* 0°H2'13' 142'50' min. Earth dist. 8641 Feb 06 0:33 30°R8* 0°H2'13' 142'50' min. Earth dist. 8641 Feb 06 0:33 30°R8* 0°H2'13' 48'25' min. Earth dist. 8641 Feb 10 0:03 30°R8* 0°E3'** 0°E3'** 0°E3'** 0°H2'14' 0°E3'**	max. Earth dist.	8639 Dec 28 21:15	16° පි 21'55	1.39882 AU	minimum elong	8640 Dec 04 00:12	16° ₹ 58'44	1°24'51
Sequence Sequenc	desc. node	8639 Dec 30 17:07	19° る 31'54		max. Earth dist.	8640 Dec 10 03:16	28° ₰ ¹40'52	1.37707 AU
evening max el 8640 lan 26 09:34 0°\tau 26 11:5 12°\tau 275'911 desc. node 8640 Dec 16 14:07 0°\tau 10'\tau 1	evening rise	8640 Jan 01 23:43	23° る 23'43			8640 Dec 10 20:27	5°0	
evening max el		8640 Jan 05 23:56	0° ≈		evening rise	8640 Dec 13 20:37	5°₹25'08	
retrograde 8640 Feb 16 22:34 18° ★5115 evening max el 8641 Jan 18 10:26 26°≈0909 25°15'26 evening set 8640 Feb 22 04:52 16° ★39'39 retrograde 8641 Jan 20 11:28 3° ★06'56 asc. node 8640 Feb 22 03:19 16° ★42'55 retrograde 8641 Jan 30 11:28 3° ★06'56 min. Earth dist. 8640 Feb 26 22:40 11° ¥10'49 0.68234 AU evening set 8641 Feb 0 05:28 0° ¥42'58 inferior conj 8640 Feb 27 14:05 10° ¥11'37 1°43'28 asc. node 8641 Feb 0 01:33 30° ₹≈ minimum elong 8640 Mar 0 23:348 4° ¥08'51 minimum elong 8641 Feb 0 01:649 25°≈84'54 0.67612 AU direct 8640 Mar 0 23:348 4° ¥08'51 11° ¥10'52 minimum elong 8641 Feb 10 21:47 24°≈14'53 0°56'23 desc. node 8640 Mar 12 21:53 7° ¥06'25 20°26'05 minimum elong 8641 Feb 10 20:28 24°≈19'10 0°55'59 desc. node 8640 Apr 13 12:38 17° ¥10'40 morning max el 8641 Feb 10 20:25 17°≈00'19 18°≈10'43		8640 Jan 26 09:34	0° ∀		desc. node	8640 Dec 16 14:07	10° ට 10'41	
evening set asc. node 8640 Feb 22 04:52 16° ¥39'39 retrograde 8641 Jan 22 20:52 0° ¥ sasc. node 8640 Feb 22 03:19 16° ¥42'55 retrograde 8641 Jan 30 11:28 3° ¥06'56 retrograde 8640 Feb 22 03:19 16° ¥42'58 retrograde 8641 Jan 30 11:28 3° ¥06'56 retrograde 8640 Feb 27 16:07 10° ¥11'37 1° 43'28 retrograde 8641 Jan 30 11:28 30° ¥42'58 retrograde 8640 Feb 27 16:07 10° ¥11'37 1° 43'28 retrograde 8641 Feb 06 01:33 30° ₹ retrograde 8640 Jan 13 23:18 4° ¥108'51 retrograde 8641 Feb 08 00:23 27° ₹56'23 retrograde 8640 Mar 07 23:49 2° ₹37'11 retrograde 8640 Jan 15 21:32 7° ¥06'25 20° 26'05 minimum clong 8641 Feb 10 21:47 24° ₹ 14'05 30° 56'23 retrograde 8640 Apr 02 04:05 0° ₹ 12' ₹ 13' 12' 12' 12' 12' 12' 12' 12' 12' 12' 12	evening max el	8640 Feb 05 21:15	12°) €21'19	23°59'11		8640 Dec 28 23:20	0° ≈	
Second Sequence	retrograde	8640 Feb 16 22:34	18° ¥ 51'15		evening max el	8641 Jan 18 10:26	26° ≈ 09'09	25°15'26
min. Earth dist. inferior conj 8640 Feb 2 of 2:40 11° ★10′49 0.68234 AU evening set 8641 Feb 05 06:28 0° ★2′58 Inferior conj 8640 Feb 2 7 16:07 10° ★11′37 1°43′28 8641 Feb 06 01:33 30° ₹≈ Inferior conj 8640 Feb 2 7 14:05 10° ★11′33 1°42′50 asc. node 8641 Feb 08 00:23 22° ≈48′54 0.67612 AU direct 8640 Mar 03 23:18 4° ★08′51 min. Earth dist. 8641 Feb 10 20:28 22° ≈41′53 0°5623 morning max el 8640 Mar 15 21:32 7° ★06′25 20°26'05 minimum elong 8641 Feb 10 20:28 24° ≈41′53 0°562'3 desc. node 8640 Apr 27 16:51 22° ₹002′46 morning max el 8641 Feb 10 20:28 24° ≈41′53 0°55'59 morning set 8640 Apr 21 15:36 0° ₹ morning max el 8641 Feb 10 20:28 12° ≈40′40 19° 22'12 max. Earth dist. 8640 Apr 13 12:38 17° ₹0′13'04 morning max el 8641 Feb 10 20:28 24° ≈40′40 19° 22'12 superior conj 8640 Apr 22 19:03 1.43596 AU greatest brilliancy 8641 Mar 11 20:54 8° ¥00′	evening set	8640 Feb 22 04:52	16°) 39′39			8641 Jan 22 20:52	0° ∀	
inferior conj 8640 Feb 27 16:07 10° H11'37 1°43'28 sedu Feb 60 601:33 30° № 1 minimum clong 8640 Feb 27 14:05 10° H18'33 1°42'50 asc. node 8641 Feb 08 00:23 27° ≈848'18 0.67612 AU direct 8640 Mar 03 23:18 4° ₩08'51 inferior conj 8641 Feb 10 21:47 24° ≈418'53 0°56'23 morning max el 8640 Mar 15 21:32 7° ₩06'25 20°26'05 minimum clong 8641 Feb 10 21:47 24° ≈419'10 0°55'59 desc. node 8640 Mar 21 16:51 22° ₩02'46 morning rise 8641 Feb 10 21:47 24° ≈419'10 0°55'59 morning set 8640 Apr 20 40:55 0° № direct 8641 Feb 10 21:47 24° ≈419'10 0°55'59 max. Earth dist. 8640 Apr 21 15:36 0° № morning max el 8641 Feb 27 01:15 21° ≈04'04 19° 22'12 superior conj 8640 Apr 22 19:03 1° №50'03 1.43596 AU greatest brilliancy 8641 Mar 11 12:54 8° ₩06'14 -0.7m superior conj 8640 Apr 29 02:18 12° №07'34 2° 10'18 8641 Mar 26 06:50 <td>asc. node</td> <td>8640 Feb 22 03:19</td> <td>16°) 42′55</td> <td></td> <td>retrograde</td> <td>8641 Jan 30 11:28</td> <td>3°)€06'56</td> <td></td>	asc. node	8640 Feb 22 03:19	16°) 42′55		retrograde	8641 Jan 30 11:28	3°) €06'56	
minimum elong 8640 Feb 27 14:05 10° X18'33 1°42'50 asc. node 8641 Feb 09 16:49 25° x848'54 0.67612 AU direct 8640 Mar 07 23:49 4° X408'51 inferior conj 8641 Feb 10 20:24 24° x848'54 0.67612 AU morning max el 8640 Mar 15 21:32 2° X3711 inferior conj 8641 Feb 10 20:28 24° x819'10 0°55'23 desc. node 8640 Mar 27 16:51 22° X02'46 minimum elong 8641 Feb 10 20:28 24° x819'10 0°55'59 morning set 8640 Apr 02 04:05 0° Y direct 8641 Feb 10 20:25 17° x09'19 10° x21'12 morning set 8640 Apr 13 12:38 17° Y13'04 morning max el 8641 Feb 10 20:25 11° x09'19 19° 22'12 max. Earth dist. 8640 Apr 21 15:36 0° Y morning max el 8641 Mar 06 08:20 0° X superior conj 8640 Apr 22 00:31 12° 50'03 1.43596 AU greatest brilliancy 8641 Mar 11 12:54 8° 40'014 -0.7m superior conj 8640 Apr 29 05:06 12° Y19'19 20'10'11 morning set 8641 Mar 12	min. Earth dist.	8640 Feb 26 22:40	11°)(10'49	0.68234 AU	evening set	8641 Feb 05 06:28	0°) 42′58	
morning rise 8640 Mar 03 23:18 4°H08'51 min. Earth dist. 8641 Feb 09 16:49 25°≈48'54 0.67612 AU direct 8640 Mar 07 23:49 2°H37'11 inferior conj 8641 Feb 10 21:47 24°≈414'53 0°56'23 morning max el 8640 Mar 15 21:32 7°H06'25 20°26'05 minimum elong 8641 Feb 10 20:28 24°≈419'10 0°55'59 desc. node 8640 Mar 27 16:51 22°H02'46 morning rise 8641 Feb 10 20:28 24°≈919'10 0°55'59 direct 8641 Feb 10 20:25 17°≈09'19 morning set 8640 Apr 02 04:05 0°P morning max el 8641 Feb 10 20:25 17°≈09'19 17°≈09'19 17°° 17°×09'19 17°° 17°×09'19 17°° 17°×09'19 17°° 17°×09'19 17°° 17°×09'19 17°° 17°×09'19 17°° 17°×09'19 17°° 17°×09'19 18°40'14 18°22'12 18°40'14 18°22'12 18°40'14 18°22'12 18°40'14 18°22'12 18°40'14 18°22'12 18°40'14 18°22'12 18°40'14 18°22'12 18°40'14 18°22'12 18°40'14 18°22'12 18°40'14 18°40'	inferior conj	8640 Feb 27 16:07	10°) (11′37	1°43'28		8641 Feb 06 01:33	30°R≈	
direct 8640 Mar 07 23:49 2°H37'11 inferior conj 8641 Feb 10 21:47 24°≈14'53 0°56'23 morning max el 8640 Mar 15 21:32 7°H06'25 20°26'05 minimum elong 8641 Feb 10 20:28 24°≈19'10 0°55'59 desc. node 8640 Mar 27 16:51 22°H02'46 morning rise 8641 Feb 10 10:48 18°≈19'59 10°×01'10 morning set 8640 Apr 21 15:36 0°V direct 8641 Feb 19 22:57 11°8∞09'19 10°×21'12 max. Earth dist. 8640 Apr 21 15:36 0°V morning max el 8641 Mar 10 08:20 0°H 10°×21'12 superior conj 8640 Apr 29 10:31 12°80'03 1.43596 AU greatest brilliancy desc. node 8641 Mar 11 22:54 8°H06'14 -0.7m superior conj 8640 Apr 29 02:18 12°80'03 1.43596 AU morning set 8641 Mar 14 13:47 12°H02'07 2°H02'07 superior conj 8640 Apr 29 05:06 12°80'19'19 2°10'11 max. Earth dist. 8641 Mar 26 06:50 0°V evening rise 8640 May 20 14:07 0°E 10°E 10°E 11°E	minimum elong	8640 Feb 27 14:05	10° ¥ 18'33	1°42'50	asc. node	8641 Feb 08 00:23		
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desc. node 8640 Mar 27 16:51 8640 or 02 04:05 8640 or 02 04:05 8640 or 02 04:05 8640 or 02 04:05 8640 or 03 0°°° 8640 or 03 12:38 17°°° 13'04 8640 or 03 12:38 17°° 13'04 8640 or 03 12'34 15:36 10°° 13'05'	direct	8640 Mar 07 23:49	2° ₩ 37'11		inferior conj	8641 Feb 10 21:47	24°≈14'53	0°56'23
desc. node 8640 Mar 27 16:51 8640 or 02 04:05 8640 or 02 04:05 8640 or 02 04:05 8640 or 02 04:05 8640 or 03 0°°° 8640 or 03 12:38 17°°° 13'04 8640 or 03 12:38 17°° 13'04 8640 or 03 12'34 15:36 10°° 13'05'	morning max el	8640 Mar 15 21:32	7° ₩ 06'25	20°26'05	minimum elong	8641 Feb 10 20:28	24°≈19'10	0°55'59
Morning set 8640 Apr 02 04:05 0°°° direct 8641 Feb 19 22:57 17°≈09'19 18°∞09'19 18°∞09°19 18°∞	desc. node	8640 Mar 27 16:51			•		18° ≈ 19'59	
morning set 8640 Apr 13 12:38 8640 Apr 13 12:38 12:38 17°Y13'04 morning max el 8641 Feb 27 01:15 21°≈04'40 19°22'12 19°22'12 max. Earth dist. 8640 Apr 22 19:03 15:36 0°8 1°850'03 1.43596 AU greatest brilliancy desc. node (asc. node) 8641 Mar 14 13:47 12°54 8° H06'14 -0.7m 4°°40'20'7 superior conj minimum elong morning extension morning morning extension morning ex		8640 Apr 02 04:05			-	8641 Feb 19 22:57	17° ≈ 09'19	
Max. Earth dist. 8640 Apr 21 15:36 0° 1° 850'03 1.43596 AU greatest brilliancy desc. node 8641 Mar 14 13:47 12° 40'20'7 40'20'7	morning set	-	17° Ƴ 13'04		morning max el	8641 Feb 27 01:15	21° ≈ 04'40	19°22'12
max. Earth dist. 8640 Apr 22 19:03 1°850′03 1.43596 AU greatest brilliancy desc. node 8641 Mar 11 22:54 8° H06′14 -0.7m superior conj 8640 Apr 29 02:18 12°80′143 -2°10′08 morning set 8641 Mar 14 13:47 25° H40′25 - minimum elong 8640 Apr 29 05:06 12°80′19′19 2°10′11 8641 Mar 26 06:50 0°° 0°° 1.44896 AU evening rise 8640 May 09 14:07 0° II max. Earth dist. 8641 Apr 05 09:14 15°°Y46′30 1.44896 AU evening rise 8640 May 20 02:07 18° II0′143 superior conj 8641 Apr 09 01:20 21°°Y35′46 -2°09′15 evening max el 8640 May 28 15:14 0° © 18° II0′143 superior conj 8641 Apr 09 01:20 21°°Y35′46 -2°09′15 evening max el 8640 May 28 18:07 0° © 18° II0′143 evening rise 8641 Apr 09 01:20 21°°Y20′14 2°09′12 evening set 8640 Jun 04 05:11 3° © 2° ©51′58 evening rise 8641 Apr 09 01:20 0° II 0° II inferior conj 864	C	•			Ü		0° ∀	
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superior conj 8640 Apr 29 02:18 12°80743 -2°10′08 morning set 8641 Mar 23 11:40 25°¥40′25 Imax Evening rise 8640 May 09 14:07 0°Π max. Earth dist. 8641 Mar 26 06:50 0°Υ 1.44896 AU evening rise 8640 May 09 14:07 0°Π max. Earth dist. 8641 Apr 05 09:14 15°Υ46′30 1.44896 AU evening rise 8640 May 11 13:45 3°Π27′54 superior conj 8641 Apr 09 01:20 21°Υ35′46 -2°09′15 asc. node 8640 May 28 15:14 0°Θ superior conj 8641 Apr 09 01:20 21°Υ20′14 2°09′12 evening max el 8640 May 28 18:07 0°Θ 18°05′38 evening rise 8641 Apr 08 21:26 21°Υ20′14 2°09′12 evening set 8640 Jun 04 05:11 3°Θ27′58 evening rise 8641 Apr 14 06:50 0°Ε 14°В46′42		r	•		2			
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asc. node 8640 May 20 02:07 18°Π07'43 superior conj 8641 Apr 09 01:20 21°Υ35'46 -2°09'15 evening max el 8640 May 28 15:14 0°Φ minimum elong 8641 Apr 08 21:26 21°Υ20'14 2°09'12 evening max el 8640 May 28 18:07 0°Φ07'09 18°05'38 8641 Apr 14 06:50 0°Β 0°Β retrograde 8640 Jun 04 05:11 3°Φ27'58 evening rise 8641 Apr 23 06:37 14°Β46'42 4 evening set 8640 Jun 06 22:11 2°Φ51'54 8641 May 02 11:53 0°Π 0°Π inferior conj 8640 Jun 13 00:08 30°RΠ asc. node 8641 May 06 23:11 6°Π51'51 6°П51'51 inferior conj 8640 Jun 13 09:58 27°Π44'53 2°38'05 retrograde 8641 May 12 07:20 13°Π31'49 18°18'57 min. Earth dist. 8640 Jun 16 06:54 24°Π42'24 0.61951 AU evening set 8641 May 21 17:08 16°Π57'12 morning rise 8640 Jun 19 19:47 21°Π40'45 inferior conj 8641 May 27 14:43 10°Π42'50 3°09'42 desc. node 8640 Jun 23 16:27 19°Π43'05 minimum elong 8641 May 27 16:25	evening rise	•			max. Larm dist.	00+171pt 05 07.1+	15 1 4050	1.44070710
Reference	•	•			superior coni	8641 Apr 09 01:20	21° V 35'46	-2°09'15
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evening set 8640 Jun 10 6 22:11 2°©51'54 8640 Jun 11 00:08 30°RII asc. node 8641 May 02 11:53 0°II 6°II51'51 inferior conj 8640 Jun 13 07:12 27°II44'53 2°38'55 evening max el 8641 May 12 07:20 13°II31'49 18°18'57 minimum elong 8640 Jun 13 09:58 27°II37'45 2°38'05 retrograde 8641 May 12 07:20 13°II31'49 18°18'57 minimum elong 8640 Jun 16 06:54 24°II42'24 0.61951 AU evening set 8641 May 21 17:08 16°II57'12 morning rise 8640 Jun 19 19:47 21°II40'45 inferior conj 8641 May 27 14:43 10°II42'50 3°09'42 desc. node 8640 Jun 23 16:27 19°II43'05 minimum elong 8641 May 27 16:25 10°II37'57 3°09'17	•	•		10 03 30	evening rice	-		
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morning rise 8640 Jun 19 19:47 21° II 40'45 inferior conj 8641 May 27 14:43 10° II 42'50 3°09'42 desc. node 8640 Jun 23 16:27 19° II 43'05 minimum elong 8641 May 27 16:25 10° II 37'57 3°09'17	•				•	•		
desc. node 8640 Jun 23 16:27 19°II43'05 minimum elong 8641 May 27 16:25 10°II37'57 3°09'17				0.01931 AU	•	•		2000142
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uirect 8640 Jun 26 15:12 19°Щ1751 min. Earth dist. 8641 May 30 00:38 7°Щ57'27 0.64029 AU					•	· · · · · · · · · · · · · · · · · · ·		
	direct	8640 Jun 26 13:12	19°Щ1/31		min. Earth dist.	8641 May 30 00:38	/°Щ57/27	u.64029 AU

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morning rise	8641 Jun 02 14:34	4° Ⅱ 28'16		inferior conj	8642 May 11 08:43	24° 8 02'56	
direct	8641 Jun 09 07:44	1° Ⅱ 47'31		minimum elong	8642 May 11 09:06	24° 8 01'45	3°21'44
desc. node	8641 Jun 10 13:28	1° Ⅱ 52'30		min. Earth dist.	8642 May 13 03:26	21° 8 49'44	0.65774 AU
morning max el	8641 Jun 23 02:24	9° Ⅱ 48′26	27°35'39	morning rise	8642 May 16 22:46	17° 8 44'31	
	8641 Jul 08 21:18	0°©		direct	8642 May 23 09:46	14° 8 58'00	
	8641 Jul 26 09:17	0 $^{\circ}\Omega$		desc. node	8642 May 28 10:29	16° 8 20'46	
morning set	8641 Jul 28 02:37	3° Ω 22'12		morning max el	8642 Jun 05 12:59	22° 8 45'46	26°43'58
max. Earth dist.	8641 Aug 01 23:36	13° Ω 18′04	1.32918 AU		8642 Jun 11 22:06	Π °0	
asc. node	8641 Aug 02 22:29	15° Ω 18'16			8642 Jul 02 04:22	0 \circ \odot	
				morning set	8642 Jul 11 09:26	16° © 33'04	
superior conj	8641 Aug 05 02:32	19° Ω 55'19	0°21'48	max. Earth dist.	8642 Jul 15 14:02	24° © 42'49	1.34275 AU
minimum elong	8641 Aug 05 01:30	19° Ω 49'44	0°21'26		8642 Jul 18 04:49	0 $^{\circ}$ Ω	
	8641 Aug 09 18:33	0° m					
evening rise	8641 Aug 12 03:29	5° m 05′18		superior conj	8642 Jul 20 02:28	3° Ω 55'25	-0°07'08
	8641 Aug 25 10:41	0∘ ⊽		minimum elong	8642 Jul 20 02:52	3° Ω 57′29	0°07'13
evening max el	8641 Sep 03 08:15	11° ≏ 12'42	22°47'54	behind sun begin	8642 Jul 19 21:40	3° Ω 30′30	
desc. node	8641 Sep 06 12:21	13° ≏ 57'35		behind sun end	8642 Jul 20 08:03	4° Ω 24'29	
retrograde	8641 Sep 16 13:11	17° ≏ 48'19		asc. node	8642 Jul 20 19:28	5° Ω 23'59	
evening set	8641 Sep 20 04:49	17° ≏ 19'04		evening rise	8642 Jul 27 13:19	19° Ω 35'47	
min. Earth dist.	8641 Sep 27 16:15	13° ≙ 57'25	0.55166 AU		8642 Aug 01 16:37	0° ™	
inferior conj	8641 Sep 29 00:09	13° ≙ 11'47	-5°24'04	evening max el	8642 Aug 16 02:25	21° Mp 37'04	21°14'05
minimum elong	8641 Sep 28 18:48	13° ≏ 19'28	5°23'25	desc. node	8642 Aug 24 09:27	27° Mp 00'19	
morning rise	8641 Oct 07 10:46	9° ₽ 23'10		retrograde	8642 Aug 28 02:22	27° mp 33'57	
direct	8641 Oct 10 13:36	9° ≏ 00'42		evening set	8642 Aug 30 11:48	27° m 20'39	
morning max el	8641 Oct 21 19:56	14° £ 17'20	20°55'26	inferior conj	8642 Sep 08 17:10	23° m 23'40	-4°18'17
asc. node	8641 Oct 29 22:13	24° £ 23'57		minimum elong	8642 Sep 08 07:34	23° m/37'10	
	8641 Nov 02 07:19	0°M		min. Earth dist.	8642 Sep 09 01:02	23° m) 12'35	0.54666 AU
morning set	8641 Nov 10 07:05	15°M32'10		morning rise	8642 Sep 17 03:55	19° m) 30'39	
	8641 Nov 17 05:44	0° ∡ 7		direct	8642 Sep 20 22:02	19° m) 00'17	
	0011110111100011	• • •		morning max el	8642 Oct 03 15:29	25° m 03'41	22°33'28
superior conj	8641 Nov 17 16:16	0° √ 54'09	1°36'39	morning max or	8642 Oct 08 04:48	ე° Ω	22 33 20
minimum elong	8641 Nov 17 17:46	1°×701'52	1°36'45	asc. node	8642 Oct 16 19:12	0 — 12° Ω 52'12	
max. Earth dist.	8641 Nov 22 12:01	10°×735'55	1.35692 AU	morning set	8642 Oct 25 17:51	0°M21'08	
evening rise	8641 Nov 26 12:07	18° 🖈 15'33	1.55072 AO	morning set	8642 Oct 25 17:51 8642 Oct 25 13:51	0°M	
desc. node	8641 Dec 03 11:08	0°る40'00			8042 Oct 23 13.31	O IIG	
desc. Hode	8641 Dec 03 01:46	0°34000		superior conj	8642 Nov 01 19:01	15°M25'08	1°41'05
	8641 Dec 03 01:46 8641 Dec 23 04:39	0°≈				15°M26'12	1°41'13
avanina may al			26020120	minimum elong	8642 Nov 01 19:13 8642 Nov 05 04:05		
evening max el	8641 Dec 31 23:31	9°≈54'37	26°20'38	max. Earth dist.	8642 Nov 08 04:05 8642 Nov 08 20:56	22°M30'33 0°⊀	1.34016 AU
retrograde	8642 Jan 13 19:25	17°≈09'32					
evening set	8642 Jan 20 02:36	14°≈36'48	0.66607.411	evening rise	8642 Nov 09 18:29	1° 🖈 45'56	
min. Earth dist.	8642 Jan 24 06:27	10°≈17'20	0.66607 AU	desc. node	8642 Nov 20 08:12	20° ₹ 55'00	
inferior conj	8642 Jan 25 23:01	8°≈13'49	0°01'18		8642 Nov 26 00:29	0°る	25005124
minimum elong	8642 Jan 25 22:59	8°≈13'56	0°01'27	evening max el	8642 Dec 14 12:41	23° る 30'42	2/0/24
transit middle	8642 Jan 25 22:59	8°≈13'56	0°01'27	. 1	8642 Dec 23 17:24	0°≈	
transit begin	8642 Jan 25 20:07	8°≈22'42		retrograde	8642 Dec 27 21:37	0°≈51'39	
transit end	8642 Jan 26 01:51	8°≈05'11			8642 Dec 31 19:30	30°Rる	
asc. node	8642 Jan 25 21:28	8°≈18'33		evening set	8643 Jan 03 15:13	28°る15'47	
morning rise	8642 Jan 31 20:11	2°≈28'48		min. Earth dist.	8643 Jan 07 13:29	24°る30'07	
direct	8642 Feb 03 21:27	1°≈36'11		inferior conj	8643 Jan 09 17:39	22° る 03'55	
morning max el	8642 Feb 10 12:01	5°≈10'17	18°34'06	minimum elong	8643 Jan 09 19:28	21°る58'51	1°00'08
	8642 Feb 27 23:20	0°) (asc. node	8643 Jan 12 18:33	18° る 52'20	
desc. node	8642 Mar 01 10:42	2° 		morning rise	8643 Jan 16 01:03	16° る 31'05	
morning set	8642 Mar 03 05:45	5° ∺ 09'27		direct	8643 Jan 18 17:18	15° る 52'47	
				morning max el	8643 Jan 25 03:33	19° る 16'46	18°02'37
superior conj	8642 Mar 19 08:09	0° Υ 26'35			8643 Feb 02 06:14	0° ≈	
minimum elong	8642 Mar 18 22:52	29° ∺ 50'16		morning set	8643 Feb 12 05:14	16° ≈ 06'49	
max. Earth dist.	8642 Mar 19 03:19	0° Y 07'40	1.45505 AU	desc. node	8643 Feb 16 07:40	22° ≈ 49'53	
	8642 Mar 19 01:22	$0^{\circ}\mathbf{\Upsilon}$			8643 Feb 20 17:50	0° ∀	
evening rise	8642 Apr 03 23:50	25° Y 06′55					
	8642 Apr 07 01:29	0°8		superior conj	8643 Feb 26 16:31	9° ∺ 29′05	
greatest brilliancy	8642 Apr 12 14:32	8° 8 47'20	-0.8m	minimum elong	8643 Feb 26 08:31	8°) 57′28	1°09'26
asc. node	8642 Apr 23 20:16	24° 8 58'47		max. Earth dist.	8643 Mar 01 22:47	14°) 37′27	1.45373 AU
evening max el	8642 Apr 25 18:15	27° 8 05'06	18°50'11		8643 Mar 11 19:44	0° Y	
	8642 Apr 29 11:49	$\Pi^{\circ}0$		evening rise	8643 Mar 14 20:31	4° Y 41'20	
retrograde	8642 May 02 11:04	0° Ⅱ 47'50		greatest brilliancy	8643 Mar 28 07:32	25° Y 13'51	-0.7m
	8642 May 05 08:11	30° ₹ 8			8643 Mar 31 13:57	0°8	
evening set	8642 May 05 18:49	29° 8 44'15		evening max el	8643 Apr 09 00:58	10° 8 43'00	19°38'05

aga mada	9642 Apr. 10 17:22	120 17127		avanina rica	9644 Eab 22 07:49	1.40¥00157	
asc. node	8643 Apr 10 17:22	12° 8 17'27		evening rise	8644 Feb 22 07:48	14°) €00'57 0° °	
retrograde	8643 Apr 16 08:38	14° 8 54'02			8644 Mar 03 21:44		20040126
evening set	8643 Apr 20 00:38	13° 8 35'33	2010125	evening max el	8644 Mar 22 02:19	24° Y °22'50	20°40'26
inferior conj	8643 Apr 25 09:59	7° 8 39'36		asc. node	8644 Mar 27 14:28	28° Ƴ 33'58	
minimum elong	8643 Apr 25 09:11	7° 8 42'15		retrograde	8644 Mar 30 07:12	29° Y 10'47	
min. Earth dist.	8643 Apr 26 13:47	6° 8 07'24	0.67102 AU	evening set	8644 Apr 03 08:28	27° Y ′36′57	
morning rise	8643 Apr 30 17:24	1° 8 21'24		inferior conj	8644 Apr 08 15:52	21° Y 28'13	3°05'06
	8643 May 02 11:34	30° ₹Ƴ		minimum elong	8644 Apr 08 14:11	21° Y 33'58	3°04'47
direct	8643 May 06 18:06	28° Ƴ 40′29		min. Earth dist.	8644 Apr 09 05:45	20° Ƴ 40′28	0.67976 AU
	8643 May 11 11:09	$_{0\circ}$ 8		morning rise	8644 Apr 13 19:41	15° Ƴ 12'37	
desc. node	8643 May 15 07:29	2° 8 37'39		direct	8644 Apr 19 07:31	12° Ƴ 46'12	
morning max el	8643 May 18 22:47	5° 8 59'03	25°29'36	morning max el	8644 Apr 30 07:50	19° Ƴ 21'10	24°02'46
	8643 Jun 06 11:59	$\Pi^{\circ}0$		desc. node	8644 May 01 04:28	20° Ƴ 14'23	
morning set	8643 Jun 24 01:20	28° Ⅱ 58'57			8644 May 09 08:21	0°8	
8	8643 Jun 24 14:45	0°ಅ			8644 May 29 15:23	0°П	
max. Earth dist.	8643 Jun 27 17:34	5°946'52	1.36099 AU	morning set	8644 Jun 04 21:11	10° Ⅱ 26'46	
max. Lattii dist.	0015 3411 27 17.51	3 - 1032	1.500)) 110	max. Earth dist.	8644 Jun 08 14:37	16° Ⅱ 58'34	1.38257 AU
superior conj	8643 Jul 03 17:38	17° © 26'32	0020121	max. Lartii dist.	0044 Juli 00 14.57	10 11 30 34	1.36237 AO
		17 \$320 32 17°\$38'10			0644 I 15 20-27	0°\$20'32	1010122
minimum elong	8643 Jul 03 19:58		0-38-17	superior conj	8644 Jun 15 20:37		
asc. node	8643 Jul 07 16:28	25° © 25'55		minimum elong	8644 Jun 16 01:02	0°5641'33	1°10'03
	8643 Jul 09 22:03	0 \circ Ω			8644 Jun 15 16:18	0° ©	
evening rise	8643 Jul 11 19:21	3° Ω 51′24		asc. node	8644 Jun 23 13:29	15° © 20'32	
	8643 Jul 26 23:18	0° m)		evening rise	8644 Jun 24 18:58	17° © 45'41	
evening max el	8643 Jul 29 09:18	2° m 39'31	19°56'24		8644 Jul 01 05:04	0 \circ Ω	
retrograde	8643 Aug 08 16:49	7° m 45'02		evening max el	8644 Jul 11 04:59	14° Ω 27'07	18°59'07
evening set	8643 Aug 10 13:56	7° m 35'39		retrograde	8644 Jul 19 21:17	18° Ω 45'07	
desc. node	8643 Aug 11 06:35	7° m 27'37		evening set	8644 Jul 21 19:43	18° Ω 33'09	
inferior conj	8643 Aug 19 13:43	3° Mp 35'34	-2°31'08	desc. node	8644 Jul 28 03:40	15° Ω 37'18	
minimum elong	8643 Aug 19 06:50	3°Mp45'59	2°28'43	inferior conj	8644 Jul 30 02:33	14° Ω 17'31	-0°35'51
min. Earth dist.	8643 Aug 21 11:51	2° m 25'44	0.55132 AU	minimum elong	8644 Jul 30 01:02	14° Ω 20′10	0°35'25
	8643 Aug 26 02:00	30°R Ω		min. Earth dist.	8644 Aug 02 02:13	12°Ω13'12	0.56478 AU
morning rise	8643 Aug 27 22:04	29° Ω 18'21		morning rise	8644 Aug 07 03:11	9° Ω 24'08	0.501,0110
direct	8643 Sep 01 10:43	28° Ω 33'30		direct	8644 Aug 12 11:50	8° Ω 16'19	
uncci	•	0°m			•	15° Ω 35'39	25050102
	8643 Sep 07 15:43	5° Mp 19'43	24910142	morning max el	8644 Aug 26 17:26		23 38 02
morning max el	8643 Sep 15 04:09	~	24-1942		8644 Sep 07 08:38	0° m)	
	8643 Oct 02 15:51	0° ⊽		asc. node	8644 Sep 19 13:09	21° m/20'27	
asc. node	8643 Oct 03 16:11	1° £ 53'53		morning set	8644 Sep 23 16:44	29° m 55'01	
morning set	8643 Oct 10 05:38	15° ≏ 10'18			8644 Sep 23 17:41	0∘ ಹ	
superior conj	8643 Oct 17 02:54	0°ML08'36	1°39'01	superior conj	8644 Sep 30 13:43	14° ≏ 57'50	1°31'06
minimum elong	8643 Oct 17 01:58	0°M03'29	1°39'04	minimum elong	8644 Sep 30 11:56	14° ≏ 48'03	1°30'59
	8643 Oct 17 01:20	0° M ₊		max. Earth dist.	8644 Oct 01 11:22	16° ≙ 57'27	1.31968 AU
max. Earth dist.	8643 Oct 19 04:30	4°M37'25	1.32765 AU	evening rise	8644 Oct 07 13:23	0°M05'11	
evening rise	8643 Oct 24 11:56	15°M45'18			8644 Oct 07 12:24	0° M	
	8643 Oct 31 21:58	0° ∡ ¹			8644 Oct 23 23:36	0° ∡ ¹	
desc. node	8643 Nov 07 05:16	10° ∡ ¹48'10		desc. node	8644 Oct 24 02:21	0° ∡ 10'35	
	8643 Nov 20 18:28	0°ರ		evening max el	8644 Nov 08 08:52	19° ∡ ¹24'58	27°19'02
evening max el	8643 Nov 27 00:38	6° る 45'23	27°28'49	retrograde	8644 Nov 22 05:06	26° ∡ ³37'48	
retrograde	8643 Dec 10 17:10	14°る04'05		evening set	8644 Nov 29 06:48	24° ∡ ¹20'26	
evening set	8643 Dec 17 17:44	11° ට 32'48		min. Earth dist.	8644 Dec 02 23:21	21° × 731'33	0.61615 AU
min. Earth dist.	8643 Dec 21 11:42	8° ਰ 18'28	0.63564 AU	inferior conj	8644 Dec 05 23:59	18° × 749'04	
inferior conj	8643 Dec 24 03:02	5° る 38'23		minimum elong	8644 Dec 06 06:19	18° × ⁷ 34'51	
minimum elong	8643 Dec 24 07:07	5° る 28'01		morning rise	8644 Dec 13 08:05	13° x 54 51	3 1/4/
•			2 07 28	•			
morning rise	8643 Dec 30 22:22	0°る20'47		direct	8644 Dec 15 13:34	13° × ⁷ 29'05	
asc. node	8643 Dec 30 15:38	0°る27'35		asc. node	8644 Dec 16 12:42	13° 🗷 33'10	
	8644 Jan 01 02:57	30°Ŗ ⋌ 7		morning max el	8644 Dec 22 13:01	17° ∡ 00'35	17°52'20
direct					8644 Dec 31 17:39	0°₹	
	8644 Jan 02 07:50	29° ₹ 52'52		_		—	
	8644 Jan 02 07:50 8644 Jan 03 12:38	ರ∘ರ		morning set	8645 Jan 07 06:08	11° る 35'20	
morning max el	8644 Jan 02 07:50 8644 Jan 03 12:38 8644 Jan 08 20:56	0°ප 3°ප16'12	17°48'25		8645 Jan 07 06:08		
morning max el morning set	8644 Jan 02 07:50 8644 Jan 03 12:38	ರ∘ರ	17°48'25	morning set superior conj	8645 Jan 07 06:08 8645 Jan 17 23:43	11° ප 35'20 0°≈39'12	0°15'23
•	8644 Jan 02 07:50 8644 Jan 03 12:38 8644 Jan 08 20:56	0°ප 3°ප16'12	17°48'25				0°15'23 0°15'21
•	8644 Jan 02 07:50 8644 Jan 03 12:38 8644 Jan 08 20:56 8644 Jan 25 07:32	0°る 3°る16'12 28°る22'18	17°48'25	superior conj	8645 Jan 17 23:43	0° ≈ 39'12	
morning set	8644 Jan 02 07:50 8644 Jan 03 12:38 8644 Jan 08 20:56 8644 Jan 25 07:32 8644 Jan 26 06:13	0°る 3°る16'12 28°る22'18 0°≈	17°48'25	superior conj minimum elong	8645 Jan 17 23:43 8645 Jan 18 01:05	0°≈39'12 0°≈45'06	
morning set	8644 Jan 02 07:50 8644 Jan 03 12:38 8644 Jan 08 20:56 8644 Jan 25 07:32 8644 Jan 26 06:13	0°る 3°る16'12 28°る22'18 0°≈		superior conj minimum elong behind sun begin	8645 Jan 17 23:43 8645 Jan 18 01:05 8645 Jan 17 22:40	0°≈39'12 0°≈45'06 0°≈34'39	
morning set desc. node	8644 Jan 02 07:50 8644 Jan 03 12:38 8644 Jan 08 20:56 8644 Jan 25 07:32 8644 Jan 26 06:13 8644 Feb 03 04:36	0°ට 3°ට16'12 28°ට22'18 0°≈ 13°≈28'37	-0°26'15	superior conj minimum elong behind sun begin	8645 Jan 17 23:43 8645 Jan 18 01:05 8645 Jan 17 22:40 8645 Jan 18 03:31	0°≈39'12 0°≈45'06 0°≈34'39 0°≈55'32	
morning set desc. node superior conj minimum elong	8644 Jan 02 07:50 8644 Jan 03 12:38 8644 Jan 08 20:56 8644 Jan 25 07:32 8644 Jan 26 06:13 8644 Feb 03 04:36 8644 Feb 06 19:23 8644 Feb 06 16:32	0°ට 3°ට16'12 28°ට22'18 0°≈ 13°≈28'37 19°≈27'24 19°≈15'46	-0°26'15 0°25'41	superior conj minimum elong behind sun begin behind sun end desc. node	8645 Jan 17 23:43 8645 Jan 18 01:05 8645 Jan 17 22:40 8645 Jan 18 03:31 8645 Jan 17 14:37 8645 Jan 20 01:32	0°≈39'12 0°≈45'06 0°≈34'39 0°≈55'32 0°≈ 4°≈11'59	0°15'21
morning set desc. node superior conj	8644 Jan 02 07:50 8644 Jan 03 12:38 8644 Jan 08 20:56 8644 Jan 25 07:32 8644 Jan 26 06:13 8644 Feb 03 04:36	0°ට 3°ට16'12 28°ට22'18 0°≈ 13°≈28'37	-0°26'15	superior conj minimum elong behind sun begin behind sun end	8645 Jan 17 23:43 8645 Jan 18 01:05 8645 Jan 17 22:40 8645 Jan 18 03:31 8645 Jan 17 14:37	0°≈39'12 0°≈45'06 0°≈34'39 0°≈55'32	

	8645 Feb 05 02:21	0° ∀		desc. node	8646 Jan 06 22:29	24° る 56'50	
	8645 Feb 26 00:42	0 ° $\mathbf{\gamma}$		max. Earth dist.	8646 Jan 07 18:33	26° る 22'23	1.41103 AU
evening max el	8645 Mar 04 22:14	8° Y 03'24	21°53'42		8646 Jan 09 22:14	0° ≈	
retrograde	8645 Mar 14 04:50	13° Y 32'56		evening rise	8646 Jan 12 11:55	4° ≈ 14'24	
asc. node	8645 Mar 14 11:35	13° Y 32'32			8646 Jan 29 08:42	0°) €	
evening set	8645 Mar 18 16:34	11° Y 43'46		evening max el	8646 Feb 15 13:57	21°) 46′31	23°13'01
inferior conj	8645 Mar 24 00:06	5° Y 24'41	2°40'33	retrograde	8646 Feb 26 00:07	27° ¥ 56'45	
minimum elong	8645 Mar 23 21:56	5° Y 32'12	2°40'01	asc. node	8646 Mar 01 08:41	27° ₭ 01'13	
min. Earth dist.	8645 Mar 24 01:10	5° Y 20′58	0.68407 AU	evening set	8646 Mar 02 23:21	25°) €52'53	
	8645 Mar 28 07:12	30° ₹		inferior conj	8646 Mar 08 08:49	19°) €26'44	
morning rise	8645 Mar 29 03:10	29°) 13′04		minimum elong	8646 Mar 08 06:36	19°) (34′23	2°06'11
direct	8645 Apr 03 01:03	27°) €06'40		min. Earth dist.	8646 Mar 07 21:56	20°) €04'16	0.68414 AU
	8645 Apr 09 14:59	0° Υ	22022110	morning rise	8646 Mar 13 13:46	13° ¥ 20'17	
morning max el desc. node	8645 Apr 12 18:29	2° Υ 50'36 8° Υ 48'14	22°33'10	direct	8646 Mar 17 21:47 8646 Mar 26 10:09	11°) 36′06 16°) 30′35	21°09'15
desc. node	8645 Apr 18 01:24 8645 May 03 09:26	0° 8		morning max el desc. node	8646 Apr 04 22:19	28° ¥ 03'54	21 09 13
morning set	8645 May 16 15:35	20° 8 42'20		desc. node	8646 Apr 06 08:07	28 γ (03 34 0° γ	
max. Earth dist.	8645 May 21 12:08	28° 8 48'01	1.40512 AU	morning set	8646 Apr 26 06:56	29° Y '44'25	
max. Earth dist.	8645 May 22 05:03	0°II	1.40312710	morning set	8646 Apr 26 10:54	0°8	
	00 15 May 22 05.05	٠ <u>ــ</u>		max. Earth dist.	8646 May 03 14:57	11° 8 29'10	1.42586 AU
superior conj	8645 May 29 07:01	12° Ⅱ 26′01	-1°40'08			0	
minimum elong	8645 May 29 12:52	12° Ⅱ 52'24		superior conj	8646 May 10 20:13	23° 8 32'53	-2°02'42
	8645 Jun 07 18:09	0ಂತಾ		minimum elong	8646 May 11 01:14	23° 8 54'21	
evening rise	8645 Jun 08 08:48	1° 5 09'09		Č	8646 May 14 13:49	0°II	
asc. node	8645 Jun 10 10:30	5° © 02'49		evening rise	8646 May 22 08:48	13° Ⅱ 51'56	
evening max el	8645 Jun 24 10:16	26°953'41	18°22'43	asc. node	8646 May 28 07:31	24° Ⅱ 27'45	
	8645 Jun 28 20:00	$0^{\circ}\Omega$			8646 May 31 14:19	0 \circ \odot	
retrograde	8645 Jul 01 21:01	0° £ 37′28		evening max el	8646 Jun 07 21:22	9° © 50'09	18°06'21
evening set	8645 Jul 04 02:00	0° Ω 18'39		retrograde	8646 Jun 14 14:04	13° © 15'05	
	8645 Jul 05 00:23	30° ₹ 🥯		evening set	8646 Jun 17 02:37	12° 5 346'09	
inferior conj	8645 Jul 11 13:02	25° © 42'55	1°01'15	inferior conj	8646 Jun 23 20:04	7° © 50'22	2°10'54
minimum elong	8645 Jul 11 15:04	25° © 38'45	1°00'21	minimum elong	8646 Jun 23 23:04	7° 5 43'12	2°09'50
min. Earth dist.	8645 Jul 14 22:10	22° © 58'01	0.58431 AU	min. Earth dist.	8646 Jun 27 01:46	4° 5 947'06	0.60663 AU
desc. node	8645 Jul 15 00:45	22° © 53'01		morning rise	8646 Jun 30 16:54	1° © 55'47	
morning rise	8645 Jul 19 00:47	20°514'05		desc. node	8646 Jul 01 21:49	1°5513'06	
direct	8645 Jul 25 03:06	18°936'14	27012104		8646 Jul 05 04:36	30°RⅡ	
morning max el	8645 Aug 08 12:31	26°519'28	27°12'04	direct	8646 Jul 07 07:01	29° ∏ 47'05	
	8645 Aug 11 23:51	0° N			8646 Jul 09 10:34	0°95	27050154
aga mada	8645 Aug 31 19:04	0° ዀ 11 ° ዀ 04'48		morning max el	8646 Jul 21 14:24	7° © 45′13 0° Ω	27°50′54
asc. node morning set	8645 Sep 06 10:05 8645 Sep 08 01:32	14° Mp 30'37		morning set	8646 Aug 07 12:38 8646 Aug 23 06:11	28° Ω 51'36	
morning set	8043 Sep 08 01.32	14 IIJ 50 57		morning set	8646 Aug 23 19:20	0° m)	
superior conj	8645 Sep 15 01:31	29° m 46'59	1°17'51	asc. node	8646 Aug 24 07:00	1° m)01'08	
minimum elong	8645 Sep 14 23:19	29° m/34'45		max. Earth dist.	8646 Aug 29 06:31	11° m) 45'00	1.31750 AU
max. Earth dist.	8645 Sep 14 21:19		1.31626 AU			'4' ' '-	
	8645 Sep 15 03:51	0∘ ⊽		superior conj	8646 Aug 30 12:31	14° m) 30'17	0°59'38
evening rise	8645 Sep 21 20:18	14° ≏ 38'33		minimum elong	8646 Aug 30 10:20	14° m) 18'18	0°59'11
_	8645 Sep 29 12:15	0°M₊		evening rise	8646 Sep 06 06:31	29° m 18'51	
desc. node	8645 Oct 10 23:26	18°ML50'13			8646 Sep 06 14:13	0∘ ত	
	8645 Oct 20 02:51	0° ∡ ¹			8646 Sep 23 00:58	0° M	
evening max el	8645 Oct 21 10:35	1° ∡ 17'39	26°35'18	desc. node	8646 Sep 27 20:32	6° ™ 29'41	
retrograde	8645 Nov 04 08:32	8° ≯ 24'50		evening max el	8646 Oct 03 04:11	12°M19'06	25°20'30
evening set	8645 Nov 11 02:12	6° ≯ 31'54		retrograde	8646 Oct 17 01:51	19° M 20'14	
min. Earth dist.	8645 Nov 15 00:14	3° ≯ 56'41	0.59521 AU	evening set	8646 Oct 22 23:00	18° ™ 00'49	
inferior conj	8645 Nov 18 05:03	1° ≯ 26'42		min. Earth dist.	8646 Oct 27 16:08	15°M21'36	0.57496 AU
minimum elong	8645 Nov 18 12:28	1° ≯ 12'10	4°25'08	inferior conj	8646 Oct 30 14:56	13°M21'24	
	8645 Nov 20 02:23	30°RM		minimum elong	8646 Oct 30 20:21	13°M12'09	5°17'51
morning rise	8645 Nov 26 01:09	26°M49'50		morning rise	8646 Nov 07 20:03	9°M07'17	
direct asc. node	8645 Nov 28 06:14 8645 Dec 03 09:44	26°M32'15 28°M13'09		direct morning max el	8646 Nov 10 05:27 8646 Nov 19 03:11	8°M50'13 13°M06'01	19°00'10
asc. nout	8645 Dec 05 15:33	28°11⊾13'09 0° √ 7		asc. node	8646 Nov 20 06:43	13°11606'01 14°116'02	17 00 10
morning max el	8645 Dec 06 00:21	0° ₹ ¹20'57	18°15'43	ase. Houc	8646 Nov 30 15:53	0° √	
morning set	8645 Dec 21 19:07	25° ₹ 28'28	10 13 73	morning set	8646 Dec 05 17:55	9° × ⁷ 47'36	
	8645 Dec 24 04:23	0°る			30.0 200 03 17.33	, , , , , , ,	
		. —		superior conj	8646 Dec 14 02:37	26° ∡ 11'38	1°14'27
superior conj	8645 Dec 31 03:49	12° る 59'09	0°49'23	minimum elong	8646 Dec 14 05:49	26° ₹ 126'56	1°14'18
minimum elong	8645 Dec 31 07:01	13° る 13'39	0°49'09	3	8646 Dec 16 02:45	0°ප	
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D d F	064675 21 00 26	00750151	1 20044 444		0647.0	200 707120	
max. Earth dist.	8646 Dec 21 00:26	8°る59'51	1.38944 AU	evening rise	8647 Dec 07 01:58	28° ₹ 07'39	
evening rise	8646 Dec 24 20:39	15° る 43'52			8647 Dec 08 02:56	0°る	
desc. node	8646 Dec 24 19:28	15° පි 38'50		desc. node	8647 Dec 11 16:29	6° ට 14'12	
	8647 Jan 02 13:11	0° ≈			8647 Dec 26 21:49	0° ≈	
	8647 Jan 24 01:21	0° ∀		evening max el	8648 Jan 11 16:45	19° ≈ 20'52	25°45'02
evening max el	8647 Jan 29 03:30	5°) 32'45	24°32'29	retrograde	8648 Jan 24 02:39	26° ≈ 27'09	
retrograde	8647 Feb 09 15:44	12° 升 16′35		evening set	8648 Jan 30 02:48	23° ≈ 59'14	
evening set	8647 Feb 15 03:18	9° ∺ 59'27		asc. node	8648 Feb 03 02:54	19° ≈ 42'59	
asc. node	8647 Feb 16 05:48	8°) 57'41		min. Earth dist.	8648 Feb 03 10:24	19° ≈ 19'38	0.67229 AU
min. Earth dist.	8647 Feb 19 17:46	4°) (45′12	0.68014 AU	inferior conj	8648 Feb 04 20:11	17° ≈ 32'37	0°33'58
inferior conj	8647 Feb 20 16:07	3°) €30'32	1°24'31	minimum elong	8648 Feb 04 19:20	17° ≈ 35′19	0°33'47
minimum elong	8647 Feb 20 14:19	3°) €36'33	1°23'57	morning rise	8648 Feb 10 12:21	11° ≈ 41′22	
	8647 Feb 23 10:34	30°R ≈		direct	8648 Feb 13 19:42	10° ≈ 38'40	
morning rise	8647 Feb 26 01:29	27° ≈ 30'42		morning max el	8648 Feb 20 16:02	14° ≈ 23'37	18°59'40
direct	8647 Mar 01 20:29	26° ≈ 08′21			8648 Mar 03 10:56	0° ∀	
	8647 Mar 09 00:08	0° ∀		greatest brilliancy	8648 Mar 05 15:54	3° ∺ 20′28	-0.8m
morning max el	8647 Mar 09 09:12	0° ℋ 22'05	19°56'59	desc. node	8648 Mar 08 16:09	7° ∺ 57'30	
desc. node	8647 Mar 22 19:14	17°) (49'42		morning set	8648 Mar 14 10:08	16°) 51′53	
	8647 Mar 30 22:37	$_0$ ° γ		Č	8648 Mar 22 20:35	$_{0}$ $^{\circ}$ Υ	
morning set	8647 Apr 05 05:20	8° ℃ 04'46		max. Earth dist.	8648 Mar 28 16:58	9° Y 09'13	1.45248 AU
max. Earth dist.	8647 Apr 16 00:47	25° Y ′00′04	1.44226 AU				
man. Darun dibu.	8647 Apr 19 03:40	0°8	1220110	superior conj	8648 Mar 30 23:30	12° Y 43'48	-2°02'45
	0047 Прт 15 05.40	ů O		minimum elong	8648 Mar 30 16:42	12°Υ16'59	
superior conj	8647 Apr 21 08:57	3° 8 35'46	-2°12'07	minimum clong	8648 Apr 10 19:19	0° 8	2 02 23
minimum elong	8647 Apr 21 09:12	3° 8 36'50		evening rise	8648 Apr 14 21:08	6° 8 37'01	
	•	25° 8 43'35	2 12 14	evening rise	1	0° Ⅱ	
evening rise	8647 May 04 14:17	23 O 43 33		aca mada	8648 Apr 29 15:10	0 H 1°H59'09	
1	8647 May 07 02:10			asc. node	8648 May 01 01:39		10020100
asc. node	8647 May 15 04:34	13° Ⅱ 29'15	10000107	evening max el	8648 May 04 23:25	6° Ⅱ 37'17	18-30-09
evening max el	8647 May 22 10:46	23° I 107'28	18°09'06	retrograde	8648 May 11 10:53	10° Ⅱ 08'08	
retrograde	8647 May 28 20:05	26° Ⅱ 28'29		evening set	8648 May 14 14:22	9° Ⅱ 12'44	201 (152
evening set	8647 May 31 16:08	25° Ⅱ 47'01		inferior conj	8648 May 20 08:16		3°16'52
inferior conj	8647 Jun 06 19:51	20° ∐ 32′27	2°54'31	minimum elong	8648 May 20 09:24	3° ∏ 37'19	3°16'35
minimum elong	8647 Jun 06 22:14	20° Ⅱ 26′01	2°53'52	min. Earth dist.	8648 May 22 11:47	1° Ⅱ 07'39	0.64824 AU
min. Earth dist.	8647 Jun 09 14:13	17° Ⅱ 34'39	0.62868 AU		8648 May 23 11:43	30° ₹ 8	
morning rise	8647 Jun 13 02:41	14° Ⅱ 22'55		morning rise	8648 May 26 03:36	27° 8 24'11	
desc. node	8647 Jun 18 18:51	11° Ⅲ 54'14		direct	8648 Jun 01 18:56	24° 8 39'27	
direct	8647 Jun 19 20:58	11° Ⅱ 50′27		desc. node	8648 Jun 04 15:54	25° 8 06'26	
morning max el	8647 Jul 03 21:32	19° Ⅱ 53'26	27°51'30		8648 Jun 12 13:36	Π $^{\circ}0$	
	8647 Jul 12 12:41	0		morning max el	8648 Jun 15 07:29	2° Ⅱ 35'52	27°17'00
	8647 Jul 31 12:19	$0 {\circ} \Omega$			8648 Jul 05 19:41	0°€	
morning set	8647 Aug 07 04:36	12° Ω 52'01		morning set	8648 Jul 20 18:02	26°523'20	
asc. node	8647 Aug 11 03:57	21° Ω 04'49			8648 Jul 22 14:03	$0^{\circ}\Omega$	
max. Earth dist.	8647 Aug 12 11:11	23° Ω 50′56	1.32350 AU	max. Earth dist.	8648 Jul 25 07:39	5° Ω 31'42	1.33439 AU
				asc. node	8648 Jul 28 00:54	11° Ω 10′52	
superior conj	8647 Aug 14 20:55	29° Ω 02'21	0°36'50				
minimum elong	8647 Aug 14 19:18	28° Ω 53'33	0°36'24	superior conj	8648 Jul 29 00:36	13° Ω 16′00	0°09'58
	8647 Aug 15 07:31	o° mp		minimum elong	8648 Jul 29 00:06	13° Ω 13′21	0°09'41
evening rise	8647 Aug 21 18:07	14° Mp 00'34		behind sun begin	8648 Jul 28 19:39	12° Ω 49'48	
C	8647 Aug 29 17:06	0∘ <u>⊽</u>		behind sun end	8648 Jul 29 04:33	13° Ω 36'56	
evening max el	8647 Sep 14 16:04	22° Ω 42'07	23°45'27	evening rise	8648 Aug 05 05:10	28° Ω 36'57	
desc. node	8647 Sep 14 17:39	22° Ω 45'56		<i>8</i> 21	8648 Aug 05 20:57	0° m	
retrograde	8647 Sep 28 06:44	29° Ω 30'34			8648 Aug 23 12:11	0∘ ⊽	
evening set	8647 Oct 02 19:19	28° Ω 45'50		evening max el	8648 Aug 26 05:21	2° £ 55'21	22°06'30
min. Earth dist.	8647 Oct 09 02:25		0.55837 AU	desc. node	8648 Aug 31 14:48	7° £ 08'24	0000
inferior conj	8647 Oct 11 04:37	24° £ 28′50		retrograde	8648 Sep 07 23:30	9° £ 16′02	
minimum elong	8647 Oct 11 04:37	24° ⊆ 30'10		evening set	8648 Sep 11 00:45	8° £ 55'21	
morning rise	8647 Oct 11 03:44 8647 Oct 19 14:12	20° △ 33'34	3 3027	min. Earth dist.	8648 Sep 19 10:29	5° ⊆ 16'00	0.54847 AU
direct	8647 Oct 19 14:12 8647 Oct 22 09:31	20° £ 33'34 20° £ 13'49		inferior conj	8648 Sep 20 02:04	4° £ 54'10	
			20007100	-	*		
morning max el	8647 Nov 01 18:10	25° Ω 06'19	20°07'00	minimum elong	8648 Sep 19 18:04	5° Ω 05'23	2 01 10
1	8647 Nov 06 02:05	0°M		morning rise	8648 Sep 28 12:55	1° Ω 06'16	
asc. node	8647 Nov 07 03:42	1°M26'53		direct	8648 Oct 01 22:15	0° Ω 40'47	01005110
morning set	8647 Nov 19 23:16	24°M23'49		morning max el	8648 Oct 13 19:58	6° £ 16'54	21°35'18
	8647 Nov 22 16:53	0° ∡ ¹		asc. node	8648 Oct 24 00:41	19° £ 30′22	
	0.4.				8648 Oct 29 20:13	0°M	
superior conj	8647 Nov 27 15:18	10° ₹ 03'14	1°30'50	morning set	8648 Nov 03 08:39	9° ™ 09'47	
minimum elong	8647 Nov 27 17:33	10° √ 14′27	1°30'51				
max. Earth dist.	8647 Dec 03 06:48	21° ₹ 05'13	1.36821 AU	superior conj	8648 Nov 10 13:50	24°M22'18	1°39'22

	0640 N 10 14 47	2.40 M 27112	1020120		0640.0 + 25.10.02	00 m 50107	1040157
minimum elong	8648 Nov 10 14:47	24°M27'13	1°39'30	superior conj	8649 Oct 25 19:03	8°M59'27	1°40'57
may Forth dist	8648 Nov 13 07:15 8648 Nov 14 18:39	0° ᡘ 2° ᡘ 59'04	1 24026 AII	minimum elong	8649 Oct 25 18:44	8°M57'46 14°M58'37	1°41'04
max. Earth dist.			1.34936 AU	max. Earth dist.	8649 Oct 28 14:28		1.33428 AU
evening rise	8648 Nov 19 00:16	11° 🖈 16'13		evening rise	8649 Nov 02 11:42	24°M59'40	
desc. node	8648 Nov 27 13:32	26° ₹ 38'18		44-	8649 Nov 05 01:14	0°×7	
	8648 Nov 29 13:55	5°0		desc. node	8649 Nov 14 10:36	16° ⊀ ¹45'04	
·	8648 Dec 21 06:14	0°≈	26042117		8649 Nov 23 01:35	0°る	27020100
evening max el	8648 Dec 24 06:09	3°≈04'19	26°43'17	evening max el	8649 Dec 06 18:54	16°る32'26	2/*20.00
retrograde	8649 Jan 06 08:02	10°≈22'08		retrograde	8649 Dec 20 07:22	23°る53'05	
evening set	8649 Jan 12 20:01	7°≈47'27	0.66072.411	evening set	8649 Dec 27 04:41	21°る17'50	0.64560.444
min. Earth dist.	8649 Jan 16 21:29	3°≈42'33	0.66073 AU	min. Earth dist.	8649 Dec 31 00:48	17°る46'20	0.64568 AU
inferior conj	8649 Jan 18 18:56	1°≈28'45		inferior conj	8650 Jan 02 09:57	15° る 12'53	
minimum elong	8649 Jan 18 19:37	1°≈26'45	0°23'51	minimum elong	8650 Jan 02 12:41	15°る05'30	1°28'07
asc. node	8649 Jan 20 00:00	0°≈04'16		asc. node	8650 Jan 06 21:06	10°る58'48	
	8649 Jan 20 01:31	30°Rる		morning rise	8650 Jan 08 22:17	9° ප් 46'26	
morning rise	8649 Jan 24 20:11	25° ⋜ 48'30		direct	8650 Jan 11 11:24	9° る 12'59	
direct	8649 Jan 27 17:29	25° る 02'17		morning max el	8650 Jan 17 21:53	12° る 35'17	17°54'30
morning max el	8649 Feb 03 05:08	28° る 30'29	18°18'40		8650 Jan 30 01:39	0° ≈	
	8649 Feb 04 14:58	0° ≈		morning set	8650 Feb 04 04:05	8° ≈ 31'48	
morning set	8649 Feb 22 16:32	26° ≈ 58'58		desc. node	8650 Feb 10 09:59	18° ≈ 55'41	
desc. node	8649 Feb 23 13:04	28° ≈ 21'16			8650 Feb 17 05:21	0° ∀	
	8649 Feb 24 13:44	0° ℋ					
				superior conj	8650 Feb 17 19:09	0° ¥ 55′21	-0°51'55
superior conj	8649 Mar 10 04:32	21° ∺ 33′09	-1°33'42	minimum elong	8650 Feb 17 13:13	0° ∺ 31'35	0°51'00
minimum elong	8649 Mar 09 18:58	20° ¥ 55'40	1°32'40	max. Earth dist.	8650 Feb 22 08:12	8° ∺ 08'34	1.45089 AU
max. Earth dist.	8649 Mar 11 12:36	23°) € 38'43	1.45542 AU	evening rise	8650 Mar 05 19:47	25°)(59'41	
	8649 Mar 15 14:07	0 ° Υ			8650 Mar 08 10:30	0° Y	
evening rise	8649 Mar 26 04:52	16° Ƴ 36′04		greatest brilliancy	8650 Mar 20 15:14	18° Ƴ 20′16	-0.6m
	8649 Apr 03 18:37	$6^{\circ}B$			8650 Mar 29 03:21	0°8	
greatest brilliancy	8649 Apr 06 00:46	3° 8 28'44	-0.8m	evening max el	8650 Apr 01 13:14	3° 8 52'09	20°02'56
asc. node	8649 Apr 17 22:46	19° 8 47'44		asc. node	8650 Apr 04 19:54	6° 8 41'56	
evening max el	8649 Apr 18 08:49	20° 8 13'39	19°08'35	retrograde	8650 Apr 09 05:18	8° 8 18'23	
retrograde	8649 Apr 25 06:55	24° 8 06'59		evening set	8650 Apr 13 01:04	6° 8 53'20	
evening set	8649 Apr 28 18:09	22° 8 56'55		inferior conj	8650 Apr 18 09:16	0° 8 51'24	3°14'43
inferior conj	8649 May 04 05:45	17° 8 09'00	3°22'27	minimum elong	8650 Apr 18 08:04	0° 8 55'30	3°14'29
minimum elong	8649 May 04 05:36	17° 8 09'29	3°22'18	· ·	8650 Apr 19 00:27	30° ₽ Υ	
min. Earth dist.	8649 May 05 17:55	15° 8 12'53	0.66395 AU	min. Earth dist.	8650 Apr 19 06:56	29° Y ′38′08	0.67525 AU
morning rise	8649 May 09 16:37	10° 8 50'28		morning rise	8650 Apr 23 14:48	24° Y 33'58	
direct	8649 May 15 23:35	8° 8 05'24		direct	8650 Apr 29 10:05	21° Y ′58'34	
desc. node	8649 May 22 12:54	10° 8 25'21		desc. node	8650 May 09 09:52	27° Y 19'18	
morning max el	8649 May 28 17:58	15° 8 41'56	26°14'35	morning max el	8650 May 11 03:34	29° Y ′00'30	24°53'40
	8649 Jun 09 12:25	0°П		<i>S</i>	8650 May 12 02:34	0°8	
	8649 Jun 28 15:58	0°9			8650 Jun 03 07:21	0°II	
morning set	8649 Jul 03 19:03	9°516'39		morning set	8650 Jun 16 03:09	21° I I20'08	
max. Earth dist.	8649 Jul 07 17:39	16°5947'29	1.35010 AU	max. Earth dist.	8650 Jun 19 17:55	27° I 52'06	1.36987 AU
max. Darm dist.	0017 341 07 17.57	10 (172)	1.55010110	max. Earth dist.	8650 Jun 20 21:33	0°95	1.50707 110
superior conj	8649 Jul 12 21:11	27° © 04'55	-0°20'12		0030 Jun 20 21.33	0 3	
minimum elong	8649 Jul 12 22:21	27°910'53		superior conj	8650 Jun 26 07:37	10° © 21'27	-0°52'10
minimum ciong	8649 Jul 14 07:16	0°Ω	0 20 10	minimum elong	8650 Jun 26 10:51	10° © 37'15	
asc. node	8649 Jul 14 21:54	1° Ω 15'39		asc. node	8650 Jul 01 18:55	21°5015'21	0 31 40
evening rise	8649 Jul 20 13:43	13° Ω 02'22		evening rise	8650 Jul 04 17:23	27° © 10'18	
evening rise	8649 Jul 29 08:11	0° m)		evening rise	8650 Jul 06 03:20	0°Ω	
avaning may al	8649 Aug 08 04:26	13° m) 33'16	20038130	evening max el	8650 Jul 21 16:57	24° Ω 55'20	10°20'26
evening max el	•		20 36 30	•	8650 Jul 31 07:19	24 δ <i>l</i> 33 20 29° Ω 39'58	19 29 20
desc. node	8649 Aug 18 11:55	19° Mp 06'38		retrograde		29° Ω 30'11	
retrograde	8649 Aug 19 11:41	19° Mp 09'08		evening set	8650 Aug 02 03:38		
evening set	8649 Aug 21 13:50	18° Mp 58'27	2026100	desc. node	8650 Aug 05 09:01	28° Ω 30'35	10/11/01
inferior conj	8649 Aug 30 18:39	15° Mp 01'30		inferior conj	8650 Aug 10 21:04	25° Ω 24'29	
minimum elong	8649 Aug 30 09:29	15° Mp 14'39		minimum elong	8650 Aug 10 16:29	25° Ω 31'50	
min. Earth dist.	8649 Aug 31 19:35	14° m) 25'42	0.54752 AU	min. Earth dist.	8650 Aug 13 07:56		0.55604 AU
morning rise	8649 Sep 08 04:57	11° Mp 00'45		morning rise	8650 Aug 19 02:48	20° Ω 52'12	
direct	8649 Sep 12 06:31	10° m/ 25'22	22010:	direct	8650 Aug 23 23:39	19° Ω 58'52	2.500.000
morning max el	8649 Sep 25 11:42	16° Mp 47'07	23°18'37	morning max el	8650 Sep 07 00:05	27° Ω 01'01	25°03'34
_	8649 Oct 06 00:43	0∘ ⊽		_	8650 Sep 09 21:42	0° m/y	
asc. node	8649 Oct 10 21:39	8° ≏ 13'56		asc. node	8650 Sep 27 18:36	27° m/27'39	
morning set	8649 Oct 18 20:03	23° £ 59'36			8650 Sep 29 01:33	0∘ ⊽	
	8649 Oct 21 15:18	0° M ₊		morning set	8650 Oct 03 07:46	8° ≏ 48'22	

gunariar agni	9650 Oat 10 04:29	23° ≙ 47'12	1°36'20		9651 Aug 06 17:42	0°N	
superior conj	8650 Oct 10 04:28	23° £ 47 12 23° £ 39'53	1°36'20	mamina may al	8651 Aug 06 17:43 8651 Aug 19 15:23		26°33'13
minimum elong max. Earth dist.	8650 Oct 10 03:08	23 ≅ 3933 27° £ 11'50	1.32364 AU	morning max el	8651 Sep 05 11:24	0° m	20 33 13
max. Earth dist.	8650 Oct 11 17:52 8650 Oct 13 00:52	0°M	1.32304 AU	asc. node	8651 Sep 14 15:32	ابات 17° m 02'39	
avanina riaa		9° M .09'27			=	23° m 29'59	
evening rise	8650 Oct 17 08:55 8650 Oct 28 09:55	9 1160927 0° √ 1		morning set	8651 Sep 17 18:04	0° ت 23 اللا29 ع	
daga mada					8651 Sep 20 18:16	0-22	
desc. node	8650 Nov 01 07:40	6° ₹27'07	27920141		0651 0 24 15-56	8° ≏ 37'37	1926107
evening max el	8650 Nov 19 05:22	29° メ 33'41 0°る	27°28'41	superior conj	8651 Sep 24 15:56		
	8650 Nov 19 16:38			minimum elong	8651 Sep 24 13:55	8° £ 26'30	1°25'55
retrograde	8650 Dec 03 00:01	6° る 51'01		max. Earth dist.	8651 Sep 25 02:17	9° £ 35'03	1.31764 AU
evening set	8650 Dec 10 01:58	4°る24'04	0.60750.444	evening rise	8651 Oct 01 12:59	23° Ω 36'19	
min. Earth dist.	8650 Dec 13 18:38	1°る21'46	0.62758 AU		8651 Oct 04 15:26	0°M	
	8650 Dec 15 04:57	30°₹ ৴		desc. node	8651 Oct 19 04:45	25°M33'21	
inferior conj	8650 Dec 16 14:26	28° ∡ ³38'40			8651 Oct 22 07:00	0° ∡	
minimum elong	8650 Dec 16 19:32	28° ∡ ¹26′24	2°37'11	evening max el	8651 Nov 01 11:10	11° ₹ 54'52	27°04'36
morning rise	8650 Dec 23 15:13	23° ∡ ¹28'57		retrograde	8651 Nov 15 08:46	19° ₹ 05'34	
asc. node	8650 Dec 24 18:08	23° ҂ 10′59		evening set	8651 Nov 22 08:05	16° ≯ 57'33	
direct	8650 Dec 25 22:30	23° ₹ 04'28		min. Earth dist.	8651 Nov 26 01:53	14° ≯ 15'56	0.60730 AU
morning max el	8651 Jan 01 15:12	26° ₰ 30'17	17°47'49	inferior conj	8651 Nov 29 05:03	11° ∡ ³36'44	
	8651 Jan 04 15:47	0°ಕ		minimum elong	8651 Nov 29 12:05	11° × ⁷ 21'49	3°47'15
morning set	8651 Jan 17 15:48	21° る 14'13		morning rise	8651 Dec 06 18:29	6° ∡ 746'47	
	8651 Jan 22 15:54	0° ≈		direct	8651 Dec 08 23:09	6° ҂ 27'37	
desc. node	8651 Jan 28 06:56	9° ≈ 37'07		asc. node	8651 Dec 11 15:09	6° ₰ 757'08	
				morning max el	8651 Dec 16 05:40	10° ∡ ¹05'44	17°59'44
superior conj	8651 Jan 29 08:42	11° ≈ 25′08	-0°07'55		8651 Dec 29 06:54	8°0	
minimum elong	8651 Jan 29 07:55	11° ≈ 21'53	0°07'38	morning set	8651 Dec 31 21:10	4° る 46'15	
behind sun begin	8651 Jan 28 23:49	10° ≈ 47'59					
behind sun end	8651 Jan 29 16:01	11° ≈ 55'42		superior conj	8652 Jan 10 23:36	23° る 07'08	0°30'51
max. Earth dist.	8651 Feb 05 01:00	22° ≈ 21'54	1.43954 AU	minimum elong	8652 Jan 11 02:02	23° る 17'48	0°30'41
	8651 Feb 09 20:24	0°) €			8652 Jan 14 22:49	0° ≈	
evening rise	8651 Feb 13 07:41	5°) €24'07		desc. node	8652 Jan 15 03:53	0°≈21'36	
3	8651 Mar 01 19:31	$_0$ ° γ		max. Earth dist.	8652 Jan 18 13:38	6°≈05'25	1.42261 AU
evening max el	8651 Mar 15 12:05	17° Ƴ 31'47	21°10'30	evening rise	8652 Jan 24 07:25	15° ≈ 25'09	
asc. node	8651 Mar 22 17:01	22° Y 27'03			8652 Feb 02 18:15	0°) €	
retrograde	8651 Mar 24 03:44	22° Y 37'41			8652 Feb 25 01:41	0°Υ	
evening set	8651 Mar 28 09:12	20° Υ 57'29		evening max el	8652 Feb 26 06:04	1° Υ 13'44	22°27'08
inferior conj	8651 Apr 02 16:24	14° Υ 43'54	2°55'53	retrograde	8652 Mar 07 00:27	7° Υ 00'55	22 27 00
minimum elong	8651 Apr 02 14:29	14° Υ 50'35	2°55'27	asc. node	8652 Mar 08 14:06	6°Υ48'33	
min. Earth dist.	8651 Apr 03 00:45	14 γ 30 33	0.68209 AU		8652 Mar 11 16:53	5° Υ 05'38	
morning rise	8651 Apr 07 19:33	8° Υ 29'33	0.08209 AU	evening set	8652 Mar 16 02:55	30° ₹	
direct	-	6° Υ 11'05		inferior conj		28°) 43'18	2°27'21
	8651 Apr 13 01:26	12° Y 25'30	22024122	,	8652 Mar 17 01:04	28° H 51'04	
morning max el	8651 Apr 23 12:54		23°24'23	minimum elong	8652 Mar 16 22:50	28° H 51'04	
desc. node	8651 Apr 26 06:49	15° Y 22'28		min. Earth dist.	8652 Mar 16 21:04	28° X 37'12 22° X 33'35	0.68460 AU
	8651 May 07 15:03	8°0		morning rise	8652 Mar 22 04:36		
	8651 May 27 03:35	0°II		direct	8652 Mar 26 20:37	20°) (36'15	21056110
morning set	8651 May 28 12:46	2° Ⅱ 18'51	1 20212 177	morning max el	8652 Apr 05 01:04	25°) € 58′24	21°56'19
max. Earth dist.	8651 Jun 01 13:43	9° Ⅱ 14'12	1.39213 AU		8652 Apr 08 17:05	0°Υ 4° Ω (1.5140	
				desc. node	8652 Apr 12 03:45	4° Y 15'49	
superior conj	8651 Jun 09 04:05	22° I I56'03			8652 Apr 30 03:11	0° 8	
minimum elong	8651 Jun 09 09:16	23° Ⅱ 20'10	1°23'06	morning set	8652 May 07 19:21	12° 8 01'56	
	8651 Jun 12 21:59	0ංම		max. Earth dist.	8652 May 13 12:49		1.41430 AU
evening rise	8651 Jun 18 13:16	10°952'28			8652 May 18 14:17	Π $^{\circ}0$	
asc. node	8651 Jun 18 15:56	11° © 05'22					
	8651 Jun 29 04:43	$0 {\circ} \Omega$		superior conj	8652 May 21 06:05	4° Ⅱ 38'28	-1°50'54
evening max el	8651 Jul 04 17:14	7° Ω 01'09	18°41'13	minimum elong	8652 May 21 11:58	5° Ⅱ 04'26	1°50'32
retrograde	8651 Jul 12 19:39	11° Ω 02'31		evening rise	8652 May 31 21:45	24° Ⅱ 00'02	
evening set	8651 Jul 14 20:29	10° Ω 48'11			8652 Jun 04 03:54	0	
inferior conj	8651 Jul 22 18:56	6° Ω 24'40	0°08'26	asc. node	8652 Jun 04 12:57	0°5541'17	
minimum elong	8651 Jul 22 19:15	6° Ω 24'04	0°08'08	evening max el	8652 Jun 17 01:34	19° 5 42'27	18°13'27
transit middle	8651 Jul 22 19:15	6° Ω 24'04	0°08'08	retrograde	8652 Jun 24 03:02	23° © 15'57	
transit begin	8651 Jul 22 16:06	6° Ω 29'58		evening set	8652 Jun 26 11:22	22° © 53'04	
transit end	8651 Jul 22 22:25	6° Ω 18′09		inferior conj	8652 Jul 03 14:31	18° © 08'44	1°34'10
desc. node	8651 Jul 23 06:06	6° Ω 03'43		minimum elong	8652 Jul 03 17:14	18° © 02'48	1°33'04
min. Earth dist.	8651 Jul 26 00:42	4° Ω 00′29	0.57249 AU	min. Earth dist.	8652 Jul 06 23:33	15° © 13'13	0.59367 AU
morning rise	8651 Jul 30 14:31	1° Ω 15'18		desc. node	8652 Jul 09 03:10	13° © 33'43	
	8651 Aug 03 21:12	30° ₹ ©		morning rise	8652 Jul 10 20:01	12° © 28'01	
direct	8651 Aug 05 07:22	29° © 54'56		direct	8652 Jul 17 04:27	10° © 36'34	
	-						

	0650 1 1 21 12 10	100607104	27022110	Ti v	0652 1 20 12 24	220 T 00156	
morning max el	8652 Jul 31 13:10		27°33'10	direct	8653 Jun 29 12:34	22° Ⅱ 09'56	
	8652 Aug 10 06:07	0 \circ Ω		morning max el	8653 Jul 13 17:34	0° © 10'36	27°55'52
	8652 Aug 28 03:08	0° m)			8653 Jul 13 13:18	0°€	
asc. node	8652 Aug 31 12:28	6° Mp 52′56			8653 Aug 04 08:00	$0^{\circ}\Omega$	
morning set	8652 Sep 01 01:19	8° Mg 00'06		morning set	8653 Aug 16 03:36	22° Ω 12'53	
max. Earth dist.	8652 Sep 07 12:26	22° Mp 00'59	1.31628 AU	asc. node	8653 Aug 18 09:25	26° Ω 52'51	
					8653 Aug 19 20:38	0° m y	
superior conj	8652 Sep 08 03:37	23° m 25'12	1°10'43	max. Earth dist.	8653 Aug 21 20:22	4° m ∤17'50	1.31950 AU
minimum elong	8652 Sep 08 01:22	23° M y 12'43	1°10'20				
	8652 Sep 11 02:51	0∘ ত		superior conj	8653 Aug 23 13:44	8° Mp 04'06	0°50'30
evening rise	8652 Sep 14 21:34	8° ≏ 13'52		minimum elong	8653 Aug 23 11:43	7° m 53'06	0°50'03
	8652 Sep 26 02:11	0° M .		evening rise	8653 Aug 30 08:37	22° m 55'27	
desc. node	8652 Oct 05 01:51	13°ML49'51			8653 Sep 02 17:35	0∘ ত	
evening max el	8652 Oct 13 09:45	23°M26'29	26°06'49		8653 Sep 21 03:06	0°M	
S	8652 Oct 23 18:19	0° ∡ ¹		desc. node	8653 Sep 21 22:59	0° ጤ 57'18	
retrograde	8652 Oct 27 07:50	0° ∡ ³30′20		evening max el	8653 Sep 25 00:21	4°M08'59	24°41'36
	8652 Oct 30 20:37	30°RML		retrograde	8653 Oct 08 19:44	11°M05'41	
evening set	8652 Nov 02 18:22	28°M51'11		evening set	8653 Oct 14 04:35	10°ML01'18	
min. Earth dist.	8652 Nov 06 22:42	26°M16'27	0.58643 AU	min. Earth dist.	8653 Oct 19 11:27	7°M14'59	0.56733 AU
inferior conj	8652 Nov 10 02:18	23°M57'26		inferior conj	8653 Oct 22 03:32	5°M32'18	
		23°M44'22				5°M27'07	
minimum elong	8652 Nov 10 09:22		4 30 10	minimum elong	8653 Oct 22 06:45		3 31 14
morning rise	8652 Nov 18 02:42	19°M29'53		morning rise	8653 Oct 30 11:08	1°M27'17	
direct	8652 Nov 20 09:03	19°M12'48		direct	8653 Nov 02 00:19	1°M09'22	10005150
asc. node	8652 Nov 27 12:09	22°M13'50		morning max el	8653 Nov 11 11:52	5°M39'05	19°25'52
morning max el	8652 Nov 28 13:44	23°M11'54	18°31'51	asc. node	8653 Nov 14 09:09	8°M47'44	
	8652 Dec 04 00:39	0° ∡ ¹			8653 Nov 27 00:34	0°⊀	
morning set	8652 Dec 14 14:48	18° ₹ '51'59		morning set	8653 Nov 28 16:47	3° ≯ 20'05	
	8652 Dec 20 09:39	0°ಕ					
				superior conj	8653 Dec 06 17:35	19° ∡ 22′23	1°22'26
superior conj	8652 Dec 23 12:15	5° る 50'56	1°01'08	minimum elong	8653 Dec 06 20:26	19° ∡ ³36′22	1°22'20
minimum elong	8652 Dec 23 15:36	6° ප 06'33	1°00'54		8653 Dec 12 07:31	o°ප	
max. Earth dist.	8652 Dec 30 22:03	19° ප 10'01	1.40204 AU	max. Earth dist.	8653 Dec 13 03:57	1° る 33'59	1.38025 AU
desc. node	8653 Jan 01 00:50	21° る 05'36		evening rise	8653 Dec 16 21:23	8° る 15'11	
evening rise	8653 Jan 04 03:30	26° පි 21'20		desc. node	8653 Dec 18 21:51	11° る 45'39	
	8653 Jan 06 08:31	0° ≈			8653 Dec 30 05:02	0° ≈	
	8653 Jan 26 10:31	0° ₩		evening max el	8654 Jan 21 09:59	28° ≈ 46'25	25°04'31
evening max el	8653 Feb 07 20:46	14° ¥ 58'41	23°47'17	C	8654 Jan 22 16:51	0° ∀	
retrograde	8653 Feb 18 18:08	21° ¥ 23'35		retrograde	8654 Feb 02 07:50	5°) (41′05	
asc. node	8653 Feb 23 11:12	19°) 37′02		evening set	8654 Feb 08 00:56	3°) 18'41	
evening set	8653 Feb 23 22:38	19°) 13′52		asc. node	8654 Feb 10 08:18	0° ¥ 59'49	
min. Earth dist.	8653 Feb 28 17:37	13°) (40'01	0.68296 AU	use. Hour	8654 Feb 11 04:29	30°R≈	
inferior conj	8653 Mar 01 09:23	12°) 46'15	1°49'55	min. Earth dist.	8654 Feb 12 12:16	28°≈19'27	0.67731 AU
minimum elong	8653 Mar 01 07:17	12°\(\frac{1}{3}\)	1°49'16	inferior conj	8654 Feb 13 15:34	26°≈50'09	1°04'04
morning rise	8653 Mar 06 15:56	6°\(\frac{12}{42}\)'35	1 47 10	minimum elong	8654 Feb 13 14:06	26°≈54'58	1°03'38
direct	8653 Mar 10 18:22	5° \ 07'43		morning rise	8654 Feb 19 03:34	20°≈54'00	1 03 30
	8653 Mar 18 19:38	9° ¥ 42'57	20°36'52	direct	8654 Feb 22 17:26		
morning max el			20 30 32			19° ≈ 40′27	10920142
desc. node	8653 Mar 30 00:39	23°) 45′18 0° °		morning max el	8654 Mar 01 22:13	23° ≈ 40'11	19°30'43
	8653 Apr 03 08:59			1 . '11'	8654 Mar 07 07:49	0°) (22150	0.7
morning set	8653 Apr 17 01:15	20° Y 39'16		greatest brilliancy	8654 Mar 14 16:29	10°) €23'50	-0./m
	8653 Apr 22 23:53	0°8		desc. node	8654 Mar 16 21:35	13°) (41'33	
max. Earth dist.	8653 Apr 25 19:13	4° 8 30'00	1.43352 AU	morning set	8654 Mar 26 23:20	29°) (02'49	
		4.			8654 Mar 27 14:10	0° Υ	
superior conj	8653 May 02 09:02	15° 8 18'04		max. Earth dist.	8654 Apr 08 08:19	18° Y '20'19	1.44748 AU
minimum elong	8653 May 02 12:34	15° 8 32'48	2°08'42				
	8653 May 10 23:20	Π $^{\circ}0$		superior conj	8654 Apr 12 11:28	24° Ƴ 54'42	-2°10'39
evening rise	8653 May 14 14:25	6° Ⅲ 22'04		minimum elong	8654 Apr 12 08:41	24° Ƴ 43'32	2°10'41
asc. node	8653 May 22 10:00	19° Ⅱ 57'00			8654 Apr 15 15:19	0° 8	
	8653 May 29 02:26	0ංම		evening rise	8654 Apr 26 10:42	17° 8 49'46	
evening max el	8653 May 31 14:02	2°5548'29	18°05'14		8654 May 03 17:39	$\Pi^{\circ}0$	
retrograde	8653 Jun 07 02:15	6°910'00		asc. node	8654 May 09 07:05	8° ∏ 46′01	
evening set	8653 Jun 09 18:06	5° © 35'49		evening max el	8654 May 15 03:22	16° Ⅱ 11'13	18°15'47
inferior conj	8653 Jun 16 05:09		2°32'17	retrograde	8654 May 21 12:37	19° Ⅲ 35'11	
minimum elong	8653 Jun 16 08:02	0°9524'19		evening set	8654 May 24 11:44	18° ∏ 47'59	
	8653 Jun 16 17:39	30°RⅡ		inferior conj	8654 May 30 10:48	13° ∏ 25'35	3°06'17
min. Earth dist.	8653 Jun 19 06:33	27° II 28'15	0.61619 AU	minimum elong	8654 May 30 12:41	13° Ⅱ 20'14	3°05'49
morning rise	8653 Jun 22 19:50	24° II 29'31		min. Earth dist.	8654 Jun 01 22:59	10° ∏ 36′20	0.63739 AU
desc. node	8653 Jun 26 00:14	22° II 47'59		morning rise	8654 Jun 05 12:21	7° П 11'58	, 5 , 110
2000. 11000	2002 7411 20 00.14	1137			505	,	

direct	8654 Jun 12 05:58	4° ∏ 32'56		minimum elong	8655 May 14 04:04	26° 8 41'35	3°20'50
desc. node	8654 Jun 12 21:18	4° ∏ 34'16		min. Earth dist.	8655 May 16 00:31	24° 8 24'34	0.65542 AU
morning max el	8654 Jun 26 02:28	12° I I35'05	27°40'49	morning rise	8655 May 19 18:48	20° 8 25'15	0.03342 AC
morning max er	8654 Jul 10 00:01	0°95	21 4049	direct	8655 May 26 07:06	17° 8 38'43	
	8654 Jul 27 20:20	$0^{\circ}\Omega$		desc. node	8655 May 30 18:19	18° 8 44'05	
morning set	8654 Jul 30 22:35	6° Ω 01'44		morning max el	8655 Jun 08 12:58	25° 8 29'25	26°53'18
max. Earth dist.	8654 Aug 04 22:03	16°Ω13'51	1.32749 AU		8655 Jun 12 15:49	0°II	
asc. node	8654 Aug 05 06:23	16° Ω 57'48			8655 Jul 03 12:16	0° ©	
	S			morning set	8655 Jul 14 07:16	19° © 18'38	
superior conj	8654 Aug 07 20:22	22° Ω 28'30	0°25'53	max. Earth dist.	8655 Jul 18 14:01	27° 5 42'32	1.34042 AU
minimum elong	8654 Aug 07 19:10	22° Ω 21′58	0°25'30		8655 Jul 19 17:13	$0^{\circ}\Omega$	
	8654 Aug 11 07:46	0° m y					
evening rise	8654 Aug 14 20:13	7° m 35'07		superior conj	8655 Jul 22 21:23	6° Ω 32'44	-0°02'31
	8654 Aug 26 12:41	0∘ ⊽		minimum elong	8655 Jul 22 21:32	6° £ 33'31	0°02'41
evening max el	8654 Sep 06 11:27	14° ≏ 22'21	23°02'50	behind sun begin	8655 Jul 22 15:54	6° Ω 04'04	
desc. node	8654 Sep 08 20:07	16° ≙ 29'00		behind sun end	8655 Jul 23 03:11	7° Ω 03'00	
retrograde	8654 Sep 19 19:35	21° ≏ 02'15		asc. node	8655 Jul 23 03:23	7° Ω 04'03	
evening set	8654 Sep 23 16:31	20° ჲ 29'26		evening rise	8655 Jul 30 06:28	22° Ω 07'33	
min. Earth dist.	8654 Sep 30 20:16	17° £ 13′24	0.55309 AU		8655 Aug 03 02:34	0° ™	
inferior conj	8654 Oct 02 09:21	16° ≙ 19'46		evening max el	8655 Aug 19 04:09	24° m 43'01	21°27'13
minimum elong	8654 Oct 02 05:07	16° ≏ 25'55	5°28'49	desc. node	8655 Aug 26 17:16	29° m 53'38	
morning rise	8654 Oct 10 19:47	12° Ω 29'59			8655 Aug 27 00:11	0∘ ⊽	
direct	8654 Oct 13 20:28	12° Ω 08'22		retrograde	8655 Aug 31 09:20	0° Ω 46'26	
morning max el	8654 Oct 24 21:19	17° £ 18'43	20°42'15	evening set	8655 Sep 02 22:14	0° ჲ 31'42	
asc. node	8654 Nov 01 06:09	26° £ 22'40			8655 Sep 04 23:09	30°₹ ™	4021124
. ,	8654 Nov 03 12:52	0°M		inferior conj	8655 Sep 12 03:03	26° Mp 34'10	
morning set	8654 Nov 13 00:07	18° M .01'17 0° ∡ 7		minimum elong	8655 Sep 11 17:37	26° Mp 47'23	4°29'15
	8654 Nov 18 18:33	0.8.		min. Earth dist.	8655 Sep 12 04:52	26° Mp 31'38	0.54680 AU
aumorior comi	9654 Nov. 20 10:55	3° ₹ 27'23	1°35'21	morning rise direct	8655 Sep 20 13:51	22° Mp 43'05	
superior conj minimum elong	8654 Nov 20 10:55 8654 Nov 20 12:37		1°35'26	morning max el	8655 Sep 24 05:37 8655 Oct 06 18:18	22° Mp 14'05 28° Mp 10'41	22°18'01
max. Earth dist.	8654 Nov 25 11:50	13° ∡ 30'44	1.35974 AU	morning max er	8655 Oct 08 14:12	0° ⊽	22 1601
evening rise	8654 Nov 29 10:24	20° 7 59'17	1.33974 AU	asc. node	8655 Oct 19 03:08	0 = 14° £ 44'40	
evening rise	8654 Dec 04 11:02	0°る		use. Houe	8655 Oct 27 02:08	0°M	
desc. node	8654 Dec 05 18:52	⁰ ර 2°ති16'52		morning set	8655 Oct 28 10:35	2°M49'25	
dese. Hode	8654 Dec 24 03:12	0°≈		morning sec	0033 000 20 10.33	2 110 17 23	
evening max el	8655 Jan 03 23:05	12° ≈ 32'51	26°11'53	superior conj	8655 Nov 04 12:39	17° M 55'18	1°40'49
retrograde	8655 Jan 16 16:40	19° ≈ 46'07		minimum elong	8655 Nov 04 13:02	17°M57'23	1°40'58
evening set	8655 Jan 22 22:01	17° ≈ 14'29		max. Earth dist.	8655 Nov 08 02:41	25°M24'15	1.34242 AU
min. Earth dist.	8655 Jan 27 02:49	12° ≈ 49'46	0.66782 AU		8655 Nov 10 09:07	0° ∡ ″	
asc. node	8655 Jan 28 05:25	11° ≈ 28′02		evening rise	8655 Nov 12 14:46	4° ∡ °24'11	
inferior conj	8655 Jan 28 17:38	10° ≈ 50′15	0°10'09	desc. node	8655 Nov 22 15:55	22° ₹ ³34'22	
minimum elong	8655 Jan 28 17:21	10° ≈ 51′05	0°10'13		8655 Nov 27 05:55	ರ°0	
transit middle	8655 Jan 28 17:21	10° ≈ 51′05	0°10'13	evening max el	8655 Dec 17 12:22	26° る 11'14	27°01'55
transit begin	8655 Jan 28 15:09	10° ≈ 57'55			8655 Dec 22 00:10	0° ≈	
transit end	8655 Jan 28 19:34	10° ≈ 44'16		retrograde	8655 Dec 30 19:43	3° ≈ 31'36	
morning rise	8655 Feb 03 13:25	5° ≈ 03'30		evening set	8656 Jan 06 11:54	0° ≈ 55'56	
direct	8655 Feb 06 16:11	4°≈08'26			8656 Jan 07 14:26	30°₹⋜	
morning max el	8655 Feb 13 08:03	7°≈45'06	18°40'09	min. Earth dist.	8656 Jan 10 11:00	27°る05'13	0.65474 AU
	8655 Mar 01 06:05	0° ∀		inferior conj	8656 Jan 12 13:25	24°₹42'03	
desc. node	8655 Mar 03 18:30	3° ¥ 56'38		minimum elong	8656 Jan 12 14:54	24°る37'48	0°50'22
morning set	8655 Mar 06 13:31	8°) 19′52 0° Υ		asc. node	8656 Jan 15 02:30	21° る 56'29	
F 41 11 4	8655 Mar 20 09:20		1 45462 ATT	morning rise	8656 Jan 18 19:09	19° ろ 07'05	
max. Earth dist.	8655 Mar 22 01:48	2° Y 38'25	1.45463 AU	direct	8656 Jan 21 12:37	18° る 26'51	10007100
gunarier cor:	9655 Mar 22 10:50	3° Ƴ 49'01	1052125	morning max el	8656 Jan 27 23:00	21°る51'38 0°≈	18°06'09
superior conj	8655 Mar 22 19:50 8655 Mar 22 10:59	3° Υ 14'22		morning sot	8656 Feb 03 09:11	0 ≈ 19°≈04'12	
minimum elong evening rise	8655 Apr 07 07:27	3 γ 14 22 28° Υ 18'38	1 3133	morning set desc. node	8656 Feb 15 08:34 8656 Feb 18 15:23	19 ≈04 12 24°≈25'09	
evening 1150	8655 Apr 08 08:47	0° 8		desc. Houc	8656 Feb 22 02:13	24 ≈ 23 09 0° ∺	
greatest brilliancy	8655 Apr 15 01:02	10° 8 40'26	-0.9m		0000100 22 02.13	υ Λ	
asc. node	8655 Apr 26 04:10	26° 8 59'49	0.7111	superior conj	8656 Mar 01 02:38	12°) 46′11	-1°16'53
evening max el	8655 Apr 28 14:51	29° 8 44'20	18°44'27	minimum elong	8656 Feb 29 18:04	12° X 12'21	1°15'48
	8655 Apr 28 21:10	0°II		max. Earth dist.	8656 Mar 03 21:20	17°) (1221	1.45442 AU
retrograde	8655 May 05 06:02	3°П23'35			8656 Mar 12 03:15	0°Υ	
evening set	8655 May 08 12:38	2° ∏ 22'12		evening rise	8656 Mar 17 06:36	7° Υ 58'18	
S	8655 May 11 07:52	30°₽ 8		greatest brilliancy	8656 Mar 30 02:41	27° Y ′39'40	-0.7m
inferior conj	8655 May 14 03:29	26° 8 43'22	3°21'02	, , , , , , , , , , , , , , , , , , ,	8656 Mar 31 16:28	0°8	
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	0656 4 10 22 10	120 422106	10020150		0.657 4 00 01 47	10 4 2140	
evening max el	8656 Apr 10 22:18	13° 8 22'06	19°29'59	retrograde	8657 Apr 02 01:47	1° 8 43'48	
asc. node	8656 Apr 12 01:17	14° 8 26'54		evening set	8657 Apr 06 01:38	0° 8 12'10	
retrograde	8656 Apr 18 03:14	17° 8 28'06			8657 Apr 06 07:47	30° ₹ Υ	
evening set	8656 Apr 21 17:59	16° 8 11'47		inferior conj	8657 Apr 11 09:10	24° Y 05'06	3°07'58
inferior conj	8656 Apr 27 03:50	10° 8 17'56	3°20'38	minimum elong	8657 Apr 11 07:36	24° Ƴ 10′27	3°07'39
minimum elong	8656 Apr 27 03:12	10° 8 20'02	3°20'28	min. Earth dist.	8657 Apr 12 01:00	23° Y 10′50	0.67877 AU
min. Earth dist.	8656 Apr 28 09:47	8° 8 39'24	0.66934 AU	morning rise	8657 Apr 16 13:21	17° Y '49'02	
morning rise	8656 May 02 12:04	3° 8 59'41		direct	8657 Apr 22 03:08	15° Ƴ 20'12	
direct	8656 May 08 14:31	1° 8 17'20		morning max el	8657 May 03 07:59	22° Y 02'13	24°16'05
desc. node	8656 May 16 15:18	4° 8 46'45		desc. node	8657 May 03 12:13	22° Y 12'57	
morning max el	8656 May 20 22:51	8° 8 40'50	25°41'44		8657 May 10 06:29	0°B	
<i>S</i>	8656 Jun 06 16:05	0°П			8657 May 30 23:01	0°II	
	8656 Jun 25 00:57	0°9		morning set	8657 Jun 08 00:46	13° Ⅱ 29'12	
morning set	8656 Jun 26 01:37	1° © 51'59		max. Earth dist.	8657 Jun 11 16:54	19° Ⅱ 58'25	1.37928 AU
max. Earth dist.	8656 Jun 29 19:06	8°9548'59	1.35807 AU	max. Earth dist.	8657 Jun 17 03:22	0°95	1.37928 AU
max. Earth dist.	8030 Juli 29 19.00	8 34839	1.55607 AU		603 / Juli 1 / 03.22	0 3	
aumarian aani	9656 Jul 05 14:02	20°508'52	0022120	aumanian aani	8657 Jun 18 19:01	3°508'48	1905146
superior conj	8656 Jul 05 14:02			superior conj			
minimum elong	8656 Jul 05 16:03	20°518'59	0°33′28	minimum elong	8657 Jun 18 23:08	3°528'32	1°05'17
asc. node	8656 Jul 09 00:21	27° © 06'58		asc. node	8657 Jun 25 21:21	17° © 03'05	
	8656 Jul 10 10:03	0 $^{\circ}\Omega$		evening rise	8657 Jun 27 13:55	20° © 23'58	
evening rise	8656 Jul 13 13:11	6° Ω 25'59			8657 Jul 02 12:55	0 \circ Ω	
	8656 Jul 26 15:45	0° m p		evening max el	8657 Jul 14 02:49	17° Ω 19'29	19°06'15
evening max el	8656 Jul 31 08:58	5° Mp 38′44	20°06'38	retrograde	8657 Jul 23 00:33	21° Ω 44′06	
retrograde	8656 Aug 10 22:32	10° m 51'56		evening set	8657 Jul 24 22:14	21° Ω 32'51	
evening set	8656 Aug 12 20:32	10° Mp 42'23		desc. node	8657 Jul 30 11:28	19° Ω 11'35	
desc. node	8656 Aug 12 14:23	10° m 44'44		inferior conj	8657 Aug 02 07:56	17° Ω 19'48	-0°52'30
inferior conj	8656 Aug 21 22:03	6° Mp 43′35	-2°48'40	minimum elong	8657 Aug 02 05:39	17° Ω 23'42	0°51'47
minimum elong	8656 Aug 21 14:27	6° Mp 54'55	2°46'03	min. Earth dist.	8657 Aug 05 04:43	15° Ω 23'01	0.56232 AU
min. Earth dist.	8656 Aug 23 15:05	5° m 42'30	0.55007 AU	morning rise	8657 Aug 10 10:03	12° Ω 31'57	
morning rise	8656 Aug 30 07:04	2°m/31'12		direct	8657 Aug 15 15:40	11° Ω 28'14	
direct	8656 Sep 03 16:53	1° m) 49'02		morning max el	8657 Aug 29 20:15	18° Ω 43'15	25°44'40
morning max el	8656 Sep 17 07:24	8° Mp 28'56	24°04'01	morning max cr	8657 Sep 08 07:32	0° m)	23 4440
morning max ci	8656 Oct 02 23:34	0° ∩	24 0401	asc. node	8657 Sep 21 21:00	23° m/04'55	
		0 == 3° £ 41'41		asc. node	•	23 1100433	
asc. node	8656 Oct 05 00:05				8657 Sep 25 06:15		
morning set	8656 Oct 11 22:17	17° Ω 38'40		morning set	8657 Sep 26 09:34	2° ≏ 24'26	
	8656 Oct 17 15:03	0°M₊			0657.0 + 02.06.21	170 0 25150	1022120
	0.500 10 10 10			superior conj	8657 Oct 03 06:21	17° ≏ 25'50	1°32'39
superior conj	8656 Oct 18 19:53	2°M37'02		minimum elong	8657 Oct 03 04:41	17° ≏ 16'38	1°32'34
minimum elong	8656 Oct 18 19:06	2°M32'47		max. Earth dist.	8657 Oct 04 08:03	19° ≏ 47'34	1.32053 AU
max. Earth dist.	8656 Oct 21 01:58		1.32921 AU		8657 Oct 09 01:15	0° M	
evening rise	8656 Oct 26 06:43	18° ™ 19'29		evening rise	8657 Oct 10 07:08	2°M36'43	
	8656 Nov 01 07:46	0° ∡ ¹			8657 Oct 25 03:46	0° ∡ ¹	
desc. node	8656 Nov 08 13:00	12° ∡ ³31'30		desc. node	8657 Oct 26 10:06	1° ∡ 59′28	
	8656 Nov 20 13:12	0°る		evening max el	8657 Nov 11 09:30	22° ∡ 15′26	27°22'39
evening max el	8656 Nov 29 00:39	9° ප 30'10	27°27'34	retrograde	8657 Nov 25 05:18	29° ₹ ′29'28	
retrograde	8656 Dec 12 16:11	16° る 49'16		evening set	8657 Dec 02 07:24	27° ∡ ¹09'10	
evening set	8656 Dec 19 16:06	14° る 16'45		min. Earth dist.	8657 Dec 05 23:45	24° ∡ 17'17	0.61913 AU
min. Earth dist.	8656 Dec 23 10:35	10°る58'09	0.63831 AU	inferior conj	8657 Dec 08 23:19	21° х 34'10	-3°09'30
inferior conj	8656 Dec 26 00:20	8° ප 19'31	-1°58'40	minimum elong	8657 Dec 09 05:21	21° × 20'22	3°07'09
minimum elong	8656 Dec 26 04:04	8° る 09'55	1°56'58	morning rise	8657 Dec 16 05:32	16° ∡ ³32'30	
asc. node	8656 Dec 31 23:33	3° ප 20'10		direct	8657 Dec 18 11:24	16° ∡ 10'35	
morning rise	8657 Jan 01 17:48	2° る 59'29		asc. node	8657 Dec 18 20:35	16° 🗷 11'14	
direct	8657 Jan 04 04:12	2° ප 30'11		morning max el	8657 Dec 25 08:48	19° × ⁷ 40'14	17°50'38
morning max el	8657 Jan 10 16:18	5° る 52'53	17940'25	morning max cr	8658 Jan 01 23:28	0° ठ	17 30 30
morning max er		0°≈	17 49 23	mamina aat	8658 Jan 10 03:17	14°る15'34	
	8657 Jan 26 14:58			morning set			
morning set	8657 Jan 27 07:18	1°≈09'51			8658 Jan 19 00:23	0° ≈	
desc. node	8657 Feb 04 12:18	15° ≈ 03'04					
_				superior conj	8658 Jan 21 02:38	3° ≈ 36′00	0°09'27
superior conj	8657 Feb 09 02:04	22° ≈ 34'45		minimum elong	8658 Jan 21 03:31	3° ≈ 39'46	0°09'31
minimum elong	8657 Feb 08 22:25	22° ≈ 19'55	0°32'18	behind sun begin	8658 Jan 20 20:30	3° ≈ 09'51	
	8657 Feb 13 16:36	0° ∀		behind sun end	8658 Jan 21 10:31	4° ≈ 09'38	
max. Earth dist.	8657 Feb 14 16:27	1°) 34′53	1.44690 AU	desc. node	8658 Jan 22 09:14	5° ≈ 46'07	
evening rise	8657 Feb 24 18:24	17°) 18′16		max. Earth dist.	8658 Jan 28 08:13	15° ≈ 39'17	1.43291 AU
	8657 Mar 05 03:15	$0^{\circ}\Upsilon$		evening rise	8658 Feb 04 09:49	26° ≈ 54'44	
evening max el	8657 Mar 25 00:28	27° Ƴ 01'49	20°30'18	-	8658 Feb 06 09:33	0° ∀	
-	8657 Mar 28 10:35	0°8			8658 Feb 26 23:49	0° Ƴ	
asc. node	8657 Mar 29 22:24	0° 8 54'00		evening max el	8658 Mar 07 21:04	10° Ƴ 42′03	21°42'11

	0(50 M 1(22.42	16° Ƴ 05'33			9650 I 15 17:27	7° ≈ 17'42	
retrograde	8658 Mar 16 23:43	16° Υ 05'33		evening rise	8659 Jan 15 17:37	0°) €	
asc. node	8658 Mar 16 19:30				8659 Jan 30 13:05		22001102
evening set	8658 Mar 21 09:47	14°Υ18'38	201452	evening max el	8659 Feb 18 13:16	24°) (24'28	23°01'03
inferior conj	8658 Mar 26 17:11	8° Y 00'46	2°44'53	_	8659 Feb 26 05:25	0°Υ	
minimum elong	8658 Mar 26 15:04	8° Y 08'06	2°44'23	retrograde	8659 Feb 28 19:28	0° Υ 29'08	
min. Earth dist.	8658 Mar 26 20:04	7° Y 50'41	0.68372 AU		8659 Mar 03 05:51	30° ₹	
morning rise	8658 Mar 31 20:11	1° Y 48'23		asc. node	8659 Mar 03 16:36	29° ∺ 47'59	
	8658 Apr 03 18:43	30°Ŗ ℋ		evening set	8659 Mar 05 16:53	28° ∺ 27'30	
direct	8658 Apr 05 20:07	29°) 38′51		min. Earth dist.	8659 Mar 10 16:51	22°) €33'38	0.68439 AU
	8658 Apr 08 00:05	0 ° Υ		inferior conj	8659 Mar 11 01:57	22° ℋ 02'08	2°12'31
morning max el	8658 Apr 15 18:16	5° Ƴ 30'48	22°46'16	minimum elong	8659 Mar 10 23:42	22° ₩ 09'53	2°11'53
desc. node	8658 Apr 20 09:08	10° Ƴ 39'17		morning rise	8659 Mar 16 06:27	15°)(54'41	
	8658 May 04 14:30	0°8		direct	8659 Mar 20 16:29	14° ¥ 07'06	
morning set	8658 May 19 23:14	23° 8 56'20		morning max el	8659 Mar 29 08:56	19°) 08'41	21°21'04
3 - 11	8658 May 23 14:15	0°П		desc. node	8659 Apr 07 06:04	29°) 49'21	
max. Earth dist.	8658 May 24 13:46	1° Ⅱ 40'01	1.40180 AU		8659 Apr 07 09:14	0°Υ	
max. Earth dist.	0000 May 21 15.10	1 1 1001	1.10100710		8659 Apr 27 18:23	0°8	
superior conj	8658 Jun 01 08:10	15° Ⅲ 22'02	1°36'00	morning set	8659 Apr 29 18:23	3° 8 08'28	
		15° I I48'07		•	1	_	1 42200 ATT
minimum elong	8658 Jun 01 13:54		1-35/29	max. Earth dist.	8659 May 06 15:21	14° 8 12'18	1.42298 AU
	8658 Jun 09 04:28	0.22 0.22			065036 14 00 50	0.00 40.00	1050150
evening rise	8658 Jun 11 05:27	3° © 52'40		superior conj	8659 May 14 00:50	26° 8 38'21	
asc. node	8658 Jun 12 18:24	6°5947'44		minimum elong	8659 May 14 06:13	27° 8 01'31	1°59'47
evening max el	8658 Jun 27 06:54	29° © 41'03	18°26'52		8659 May 15 23:24	Π °0	
	8658 Jun 27 14:46	$0^{\circ}\Omega$		evening rise	8659 May 25 07:49	16° Ⅱ 42'07	
retrograde	8658 Jul 04 21:27	3° Ω 29'02		asc. node	8659 May 30 15:26	26° Ⅱ 15'42	
evening set	8658 Jul 07 01:14	3° Ω 11'34			8659 Jun 01 19:12	0 \circ \odot	
	8658 Jul 12 21:43	30° ₹ ∽		evening max el	8659 Jun 10 17:26	12° © 33'55	18°07'36
inferior conj	8658 Jul 14 15:12	28°539'02	0°48'14	retrograde	8659 Jun 17 12:04	16°9500'34	
minimum elong	8658 Jul 14 16:52	28° © 35'41	0°47'26	evening set	8659 Jun 19 23:31	15° © 33'17	
desc. node	8658 Jul 17 08:31	26°\$28'22		inferior conj	8659 Jun 26 19:23	10° © 40'35	2°02'03
min. Earth dist.	8658 Jul 17 23:53	25° © 58'47	0.58110 AU	minimum elong	8659 Jun 26 22:23	10°533'37	2°00'59
morning rise	8658 Jul 22 05:02	23°5014'51	0.00110110	min. Earth dist.	8659 Jun 30 02:19	7° © 38'26	0.60325 AU
direct	8658 Jul 28 05:00	21°9541'37		morning rise	8659 Jul 03 18:27	4°9349'15	0.00323710
		29°\$22'22	27902107	desc. node	8659 Jul 04 05:36	4°932'18	
morning max el	8658 Aug 11 14:24		27 03 07		8659 Jul 10 07:23		
	8658 Aug 12 05:36	$\Omega^{\circ}\Omega$		direct		2°544'44	25045122
	8658 Sep 02 03:53	0° Т р		morning max el	8659 Jul 24 15:14	10° © 41'15	27°47'32
asc. node	8658 Sep 08 17:56	12° m 47'22			8659 Aug 08 16:06	$0^{\circ}\Omega$	
morning set	8658 Sep 10 18:49	17° Mp 02'14			8659 Aug 25 07:40	0° m)	
	8658 Sep 16 17:39	0∘ ত		morning set	8659 Aug 26 00:13	1°Mp25'41	
				asc. node	8659 Aug 26 14:53	2°Mp42'18	
superior conj	8658 Sep 17 18:08	2° £ 15'56	1°20'12	max. Earth dist.	8659 Sep 01 03:14	14° Mp 36'12	1.31701 AU
minimum elong	8658 Sep 17 15:59	2° ഫ 03'55	1°19'55				
max. Earth dist.	8658 Sep 17 17:44	2° £ 13'38	1.31644 AU	superior conj	8659 Sep 02 05:23	17° m 00'34	1°02'44
evening rise	8658 Sep 24 13:23	17° ≙ 08'55		minimum elong	8659 Sep 02 03:11	16° ₩ 48′22	1°02'17
	8658 Sep 30 21:52	0°M			8659 Sep 08 03:04	0∘ ত	
desc. node	8658 Oct 13 07:12	20°M46'51		evening rise	8659 Sep 08 23:14	1° ≏ 48'37	
	8658 Oct 20 10:23	0° √		Ç	8659 Sep 24 01:32	0°M	
evening max el	8658 Oct 24 12:15	4° ₹ 15'34	26°43'56	desc. node	8659 Sep 30 04:20	8°M36'46	
retrograde	8658 Nov 07 10:15	11° ₹ 23'57	20 .500	evening max el	8659 Oct 06 07:11	15°M24'46	25°33'18
evening set	8658 Nov 14 05:44	9° × ⁷ 26'42		retrograde	8659 Oct 20 05:14	22°M26'43	25 55 10
•		6° × 50'21	0.50022 ATT	-	8659 Oct 26 06:11	21°M02'08	
min. Earth dist.	8658 Nov 18 02:15			evening set			0.57704.411
inferior conj	8658 Nov 21 06:57	4° ₹ 17'20		min. Earth dist.	8659 Oct 30 19:28	18°M24'36	
minimum elong	8658 Nov 21 14:21	4° ₹ 02'31	4°15'35	inferior conj	8659 Nov 02 19:53	16°M19'01	
	8658 Nov 27 21:41	30°RM₊		minimum elong	8659 Nov 03 01:53	16° ™ 08'34	5°11'34
morning rise	8658 Nov 29 01:26	29°M37'07		morning rise	8659 Nov 10 23:55	12°M01'22	
direct	8658 Dec 01 06:12	29°M19'16		direct	8659 Nov 13 08:18	11° M 44'25	
	8658 Dec 04 11:56	0°⊀		morning max el	8659 Nov 22 01:26	15°M55'46	18°52'06
asc. node	8658 Dec 05 17:35	0° ∡ ³37'16		asc. node	8659 Nov 22 14:36	16°M28'19	
morning max el	8658 Dec 08 21:07	3° ∡ 104'57	18°10'57		8659 Dec 01 23:55	0° ∡	
morning set	8658 Dec 24 14:26	28° ₹ 03'25		morning set	8659 Dec 08 12:00	12° √ 19'10	
-	8658 Dec 25 15:11	ರ°0		-			
				superior conj	8659 Dec 16 23:47	28° х 51'36	1°11'14
superior conj	8659 Jan 03 03:28	15° る 46'25	0°44'47	minimum elong	8659 Dec 17 03:03	29° × 07'09	1°11'02
minimum elong	8659 Jan 03 06:31	16°පි00'10	0°44'33	Ciong	8659 Dec 17 14:13	0°る	
desc. node	8659 Jan 09 06:14	16 පිරිර 10 26°පි30'59	J 77 JJ	max. Earth dist.	8659 Dec 24 01:03	11° 石 49'43	1.39272 AU
	8659 Jan 10 18:43	20 33039 29° ろ 06'00	1 /11/11 ATT				1.37212 AU
max. Earth dist.			1.41411 AU	desc. node	8659 Dec 27 03:15	17° る 13'34	
	8659 Jan 11 07:32	0° ≈		evening rise	8659 Dec 27 23:06	18° る 38'30	

	8660 Jan 03 20:45	0° ≈		ovenina riae	9660 Dec 00 01:22	0° る 54'27	
		0° ₩		evening rise	8660 Dec 09 01:32	0° 3 3427 7° る 50'06	
avanina may al	8660 Jan 24 21:03 8660 Feb 01 03:09		24°21'00	desc. node	8660 Dec 13 00:16	0°≈	
evening max el retrograde	8660 Feb 12 11:42	14° H 49'52	24 21 00	ovanina may al	8660 Dec 27 01:27 8661 Jan 13 16:24	0 ≈ 21°≈58'42	25°25'00
•	8660 Feb 17 21:23	14 X 4932 12° X 34'41		evening max el	8661 Jan 25 23:16	21 ≈3842 29°≈02'06	23 33 00
evening set	8660 Feb 17 21.23 8660 Feb 18 13:42	12 X 34 41 11° X 57'51		retrograde	8661 Jan 31 21:39	29 ≈02 06 26°≈35'33	
asc. node	8660 Feb 22 13:00	7° H 15'17	0.68096 AU	evening set			
min. Earth dist.	8660 Feb 23 09:37	6° ₩ 05'59	1°31'30	asc. node min. Earth dist.	8661 Feb 04 10:49 8661 Feb 05 06:13	22°≈51'19 21°≈50'54	0.67369 AU
inferior conj		6° X 12'23	1°30'55			21 ≈30 34 20°≈08'22	0.07309 AU 0°42'10
minimum elong	8660 Feb 23 07:43		1 30 33	inferior conj	8661 Feb 06 14:18		
morning rise	8660 Feb 28 18:09	0°) €05'02		minimum elong	8661 Feb 06 13:16	20°≈11'40	0°41'54
Γ	8660 Feb 28 20:55	30°R≈		morning rise	8661 Feb 12 05:18	14°≈15'48	
direct	8660 Mar 03 15:05	28°≈39'24		direct	8661 Feb 15 14:20	13°≈10'19	10007112
	8660 Mar 07 16:05	0° ∀	20006152	morning max el	8661 Feb 22 12:32	16°≈58'33	19°07'13
morning max el	8660 Mar 11 06:47	2° € 58′22	20°06'53	1 . 1111	8661 Mar 04 14:54	0°) (57141	0.7
desc. node	8660 Mar 24 03:00	19°) 31'16		greatest brilliancy	8661 Mar 07 22:46	4°) 57'41	-0.7m
	8660 Mar 31 04:46	0°Υ		desc. node	8661 Mar 10 23:54	9° ₩ 35'57	
morning set	8660 Apr 07 18:07	11° Y 31'31		morning set	8661 Mar 17 20:25	20°) 10′14	
max. Earth dist.	8660 Apr 18 00:27	27° Y 37'37	1.44019 AU		8661 Mar 24 04:19	0° Υ	
	8660 Apr 19 11:59	0° 8		max. Earth dist.	8661 Mar 31 16:04	11°'Y'42'52	1.45140 AU
superior conj	8660 Apr 23 17:22	6° 8 51'18	-2°11'48	superior conj	8661 Apr 03 10:41	16° Ƴ 05'33	-2°05'30
minimum elong	8660 Apr 23 18:37	6° 8 56'22		minimum elong	8661 Apr 03 04:50	15° Ƴ 42'28	2°05'17
evening rise	8660 May 06 16:24	28° 8 42'17		Č	8661 Apr 12 03:24	0°8	
***************************************	8660 May 07 10:25	0°II		evening rise	8661 Apr 18 02:49	9° 8 44'33	
asc. node	8660 May 16 12:31	15° Ⅱ 21'21		0.00000	8661 Apr 30 16:17	0°II	
evening max el	8660 May 24 06:48	25° I I49'01	18°07'30	asc. node	8661 May 03 09:36	3°П56'29	
retrograde	8660 May 30 16:28	29° I 109'33	10 07 50	evening max el	8661 May 07 19:43	9° ∏ 17'08	18°25'49
evening set	8660 Jun 02 11:29	28° II 29'58		retrograde	8661 May 14 06:16	12° ∏ 45'44	10 23 47
inferior conj	8660 Jun 08 16:58	23° I 18'03	2°49'19	evening set	8661 May 17 08:38	11° I I52'26	
minimum elong	8660 Jun 08 19:31	23° I I1'19	2°48'36	inferior conj	8661 May 23 03:45	6° ∏ 22'45	3°14'36
min. Earth dist.	8660 Jun 11 13:18	20° I 18'13	0.62555 AU	minimum elong	8661 May 23 05:06	6° П 18'48	3°14'16
		17° I I10'17	0.02333 AU	min. Earth dist.	•	3° П 45'11	0.64557 AU
morning rise	8660 Jun 15 01:48	1/° П 101/ 14° П 50'13			8661 May 25 09:30	0° П 06'49	0.04337 AU
desc. node	8660 Jun 20 02:39	14 H 30 13		morning rise	8661 May 29 00:37	0 Д0649 30°R ठ	
direct	8660 Jun 21 19:59	22° Ⅱ 43'14	27°53'44	direct	8661 May 29 03:58	27° 8 23'19	
morning max el	8660 Jul 05 21:42		27°53'44	direct	8661 Jun 04 16:42	_	
	8660 Jul 12 08:01	0° ©		desc. node	8661 Jun 06 23:40	27° 8 40'26	
	8660 Jul 31 21:37	0°N			8661 Jun 11 23:53	0°П	
morning set	8660 Aug 08 23:43	15° Ω 29'11		morning max el	8661 Jun 18 07:28	5° Ⅱ 21'18	27°24'06
asc. node	8660 Aug 12 11:52	22° Ω 45'01			8661 Jul 07 01:04	0.22 0.22	
max. Earth dist.	8660 Aug 14 08:51	26° Ω 44'49	1.32234 AU	morning set	8661 Jul 23 14:42	29° © 05'08	
	8660 Aug 15 20:58	0° m			8661 Jul 24 01:52	0 \circ Ω	
				max. Earth dist.	8661 Jul 28 06:51		1.33249 AU
superior conj	8660 Aug 16 14:19	1° m 34'21	0°40'35	asc. node	8661 Jul 30 08:51	12° Ω 50′50	
minimum elong	8660 Aug 16 12:34	1° Mp 24'52	0°40'08			_	
evening rise	8660 Aug 23 10:46	16°₩30'16		superior conj	8661 Jul 31 18:51	15° Ω 50′50	0°14'16
	8660 Aug 30 01:44	0∘ ⊽		minimum elong	8661 Jul 31 18:09	15° Ω 47'04	0°13'58
desc. node	8660 Sep 16 01:27	25° ≏ 06'58		behind sun begin	8661 Jul 31 15:26	15° Ω 32'39	
evening max el	8660 Sep 16 19:38	25° ≏ 51'48	24°00'14	behind sun end	8661 Jul 31 20:51	16° Ω 01'29	
	8660 Sep 21 23:58	0° M			8661 Aug 07 09:18	0°Щ	
retrograde	8660 Sep 30 11:48	2°M42'29		evening rise	8661 Aug 07 22:03	1° m 07'39	
evening set	8660 Oct 05 05:53	1°M52'55			8661 Aug 24 02:19	0∘ ⊽	
	8660 Oct 09 09:39	30° ₹ Ω		evening max el	8661 Aug 29 08:01	6° ჲ 03'33	22°20'46
min. Earth dist.	8660 Oct 11 06:15	28° ≏ 55'48	0.56053 AU	desc. node	8661 Sep 02 22:34	9° ≏ 48'28	
inferior conj	8660 Oct 13 12:28	27° ≏ 33'09	-5°36'50	retrograde	8661 Sep 11 06:10	12° ≏ 29'54	
minimum elong	8660 Oct 13 12:45	27° ≏ 32'44	5°36'45	evening set	8661 Sep 14 12:20	12° ഫ 06'30	
morning rise	8660 Oct 21 21:40	23° ≏ 35'33		min. Earth dist.	8661 Sep 22 14:16	8° ≏ 33'42	0.54938 AU
direct	8660 Oct 24 15:18	23° ≏ 16'19		inferior conj	8661 Sep 23 11:46	8° ഫ 03'26	-5°11'34
morning max el	8660 Nov 03 18:16	28° ≏ 02'38	19°55'37	minimum elong	8661 Sep 23 04:35	8° ≏ 13'33	5°10'24
	8660 Nov 05 15:49	0° M ₊		morning rise	8661 Oct 01 22:34	4° ≙ 15'49	
asc. node	8660 Nov 08 11:36	3°M29'34		direct	8661 Oct 05 05:36	3° ≏ 51′28	
morning set	8660 Nov 21 16:33	26°M53'15		morning max el	8661 Oct 16 22:00	9° ≙ 20'36	21°21'02
	8660 Nov 23 05:14	0°⊀		asc. node	8661 Oct 26 08:35	21° ≏ 26′00	
					8661 Oct 31 05:47	0° M	
superior conj	8660 Nov 29 10:39	12° ∡ ³37'54	1°28'52	morning set	8661 Nov 06 01:29	11°M38'26	
minimum elong	8660 Nov 29 13:04	12° ∡ ¹49'56	1°28'52				
max. Earth dist.	8660 Dec 05 07:15	23° ₹ 59'32	1.37127 AU	superior conj	8661 Nov 13 07:58	26°M53'51	1°38'31
	8660 Dec 08 13:28	8°0		minimum elong	8661 Nov 13 09:07	26°M59'48	1°38'39
				_			

	8661 Nov 14 20:02	0° ∡ 7		asc. node	8662 Oct 13 05:33	10° ≏ 04'06	
max. Earth dist.	8661 Nov 17 18:05	5° ∡ 754'09	1.35192 AU	morning set	8662 Oct 21 12:42	26° £ 27'53	
evening rise	8661 Nov 21 21:34	13° × 757'06	1.55172 AO	morning sec	8662 Oct 23 04:30	0°M	
desc. node	8661 Nov 29 21:18	28° × 16'18			0002 001 25 04.50	0 110	
dese. node	8661 Nov 30 21:56	0°중		superior conj	8662 Oct 28 12:21	11°M28'52	1°41'06
	8661 Dec 21 21:25	0° ≈		minimum elong	8662 Oct 28 12:13	11°M28'09	1°41'15
evening max el	8661 Dec 27 05:42	5°≈43'06	26°35'45	max. Earth dist.	8662 Oct 31 12:31	17° M 51'25	1.33621 AU
retrograde	8662 Jan 09 05:31	13° ≈ 00'01		evening rise	8662 Nov 05 07:16	27°M35'54	
evening set	8662 Jan 15 15:55	10°≈25'50			8662 Nov 06 12:41	0° ∡ 7	
min. Earth dist.	8662 Jan 19 18:11	6°≈15'56	0.66270 AU	desc. node	8662 Nov 16 18:21	18° ∡ ¹25'59	
inferior conj	8662 Jan 21 13:57	4°≈05'32			8662 Nov 24 04:00	0°ಕ	
minimum elong	8662 Jan 21 14:22	4° ≈ 04'19	0°14'38	evening max el	8662 Dec 09 18:31	19° る 13'48	27°16'07
transit middle	8662 Jan 21 14:22	4° ≈ 04'19	0°14'38	retrograde	8662 Dec 23 05:53	26° ♂ 34'54	
transit begin	8662 Jan 21 13:10	4° ≈ 07'55		evening set	8662 Dec 30 01:59	23° る 59'12	
transit end	8662 Jan 21 15:34	4°≈00'44		min. Earth dist.	8663 Jan 02 22:48	20° පි 22'51	0.64814 AU
asc. node	8662 Jan 22 07:54	3° ≈ 12'23		inferior conj	8663 Jan 05 06:16	17° ප් 51'38	-1°19'11
	8662 Jan 25 08:40	30°₹₹		minimum elong	8663 Jan 05 08:39	17° る 45'06	1°17'59
morning rise	8662 Jan 27 13:44	28° る 23'38		asc. node	8663 Jan 09 04:57	13°る58'09	
direct	8662 Jan 30 12:24	27° る 35'14		morning rise	8663 Jan 11 16:50	12° る 22'59	
	8662 Feb 04 20:30	0° ≈		direct	8663 Jan 14 06:59	11° る 47'57	
morning max el	8662 Feb 06 00:53	1° ≈ 05'10	18°23'42	morning max el	8663 Jan 20 17:15	15° る 10'37	17°56'57
morning set	8662 Feb 25 22:21	0°) €03'30			8663 Jan 31 08:23	0° ≈	
desc. node	8662 Feb 25 20:49	29° ≈ 57'24		morning set	8663 Feb 07 05:43	11° ≈ 23'52	
	8662 Feb 25 21:29	0°) €		desc. node	8663 Feb 12 17:44	20° ≈ 30'11	
					8663 Feb 18 13:56	0°) €	
superior conj	8662 Mar 13 15:52	24°) 53′56	-1°39'08				
minimum elong	8662 Mar 13 06:15	24° ∺ 16′17	1°38'12	superior conj	8663 Feb 21 03:56	4°) €08'08	-0°58'37
max. Earth dist.	8662 Mar 14 11:17	26° ∺ 09'52	1.45545 AU	minimum elong	8663 Feb 20 21:13	3°) 41′23	0°57'37
	8662 Mar 16 22:07	$0^{\circ}\mathbf{\Upsilon}$		max. Earth dist.	8663 Feb 25 06:42	10°) 39′13	1.45203 AU
evening rise	8662 Mar 29 13:45	19° Ƴ 50′26		evening rise	8663 Mar 09 06:18	29° 升 16′36	
	8662 Apr 05 00:41	9° 8			8663 Mar 09 17:35	0 ° Υ	
greatest brilliancy	8662 Apr 08 15:50	5° 8 39'34	-0.8m	greatest brilliancy	8663 Mar 23 17:09	21° Y 09'23	-0.6m
asc. node	8662 Apr 20 06:42	21° 8 51'38			8663 Mar 29 23:53	9° 8	
evening max el	8662 Apr 21 05:39	22° 8 52'14	19°01'46	evening max el	8663 Apr 04 10:50	6° 8 30'15	19°54'00
retrograde	8662 Apr 28 01:45	26° 8 41'40		asc. node	8663 Apr 07 03:47	8° 8 54'40	
evening set	8662 May 01 11:44	25° 8 33'52		retrograde	8663 Apr 11 23:54	10° 8 51'09	
inferior conj	8662 May 07 00:04	19° 8 48'09	3°22'32	evening set	8663 Apr 15 18:18	9° 8 28'27	
minimum elong	8662 May 07 00:06	19° 8 48'02	3°22'21	inferior conj	8663 Apr 21 02:50	3° 8 28'34	3°16'39
min. Earth dist.	8662 May 08 14:30	17° 8 45'56	0.66187 AU	minimum elong	8663 Apr 21 01:46	3° 8 32'10	3°16'26
morning rise	8662 May 12 11:59	13° 8 29'31		min. Earth dist.	8663 Apr 22 02:39	2° 8 08'33	0.67381 AU
direct	8662 May 18 20:23	10° 8 43'48			8663 Apr 23 18:25	30° ₹Ƴ	
desc. node	8662 May 24 20:40	12° 8 41'44		morning rise	8663 Apr 26 08:57	27° Ƴ 10'44	
morning max el	8662 May 31 18:05	18° 8 24'39	26°25'18	direct	8663 May 02 06:09	24° Ƴ 33'14	
	8662 Jun 10 12:23	$\Pi^{\circ}0$		desc. node	8663 May 11 17:37	29° Y 22'52	
	8662 Jun 30 01:05	0ංම			8663 May 12 09:58	0° 8	
morning set	8662 Jul 06 17:50	12° © 04'52		morning max el	8663 May 14 03:45	1° 8 41'34	25°06'30
max. Earth dist.	8662 Jul 10 18:29	19° © 48'57	1.34744 AU		8663 Jun 04 13:28	$\Pi^{\circ 0}$	
				morning set	8663 Jun 19 04:47	24° Ⅱ 16'49	
superior conj	8662 Jul 15 16:39	29°543'44			8663 Jun 22 08:20	0.ee	10000
minimum elong	8662 Jul 15 17:32	29°548'17	0°15'29	max. Earth dist.	8663 Jun 22 19:45	0° © 52'49	1.36667 AU
behind sun begin	8662 Jul 15 15:56	29°540'03			0.662 X 20 04 40	120005110	0045115
behind sun end	8662 Jul 15 19:09	29°956'31		superior conj	8663 Jun 29 04:49	13°905'48	
	8662 Jul 15 19:49	0° Ω		minimum elong	8663 Jun 29 07:44	13°920'07	0°46'5/
asc. node	8662 Jul 17 05:50	2° £ 55'57		asc. node	8663 Jul 04 02:50	22°556'39	
evening rise	8662 Jul 23 07:06	15° Ω 34'58		evening rise	8663 Jul 07 11:39	29° © 45'58	
	8662 Jul 30 14:30	0° M)	20050121		8663 Jul 07 14:26	0° Ω 27° Ω 51125	10020126
evening max el	8662 Aug 20 10:41	16° M 35'59	20 3031	evening max el	8663 Jul 24 15:49		19°38'26
desc. node	8662 Aug 22 19:41	22°Mp09'58		ratrograda	8663 Jul 27 03:02	0°Mp 2°Mn 43′21	
retrograde	8662 Aug 24 22:48	22°Mp19'31		retrograde	8663 Aug 05 08:28	2° Mp 43'21	
evening set	8662 Aug 24 22:48	22°Mp08'08	3051140	evening set	8663 Aug 07 16:47	2° Mp 33'51	
inferior conj	8662 Sep 03 04:08	18° Mp 11'25		desc. node	8663 Aug 11 17:20	1°Mp56'18 30°R Ω	
minimum elong min. Earth dist.	8662 Sep 02 18:40 8662 Sep 03 23:10	18° Mp 24'54 17° Mp 44'19		inferior conj	8663 Aug 11 17:29 8663 Aug 14 04:20	30°R37 28° Ω 30'22	1050104
morning rise	8662 Sep 11 14:38	17° mp 13'50	0.54/00 AU	minimum elong	8663 Aug 13 22:55	28° € 30′22 28° € 38′53	
direct	8662 Sep 15 13:30	13° Mp 40'23		min. Earth dist.	8663 Aug 16 11:04		0.55423 AU
morning max el	8662 Sep 28 14:56	13 m/4023 19°m/55'53	23°02'47	morning rise	8663 Aug 22 11:04	24° Ω 03'27	0.33723 AU
morning max ci	8662 Oct 07 00:52	0₀ ʊ	23 02 71	direct	8663 Aug 27 05:02	24 δ 03 27 23° Ω 13'12	
	3002 300 07 00.32	· –		anoot	5005 Tug 27 05.02	20 0610 12	

	8663 Sep 09 23:00	0° m		transit end	8664 Jul 25 02:01	9° Ω 18'12	
morning max el	8663 Sep 10 03:18	ريان 10′07 (10°07	24°48'25	desc. node	8664 Jul 24 13:53	9° Ω 40'17	
asc. node	8663 Sep 30 02:30	29° m 13'34	24 40 23	min. Earth dist.	8664 Jul 28 02:56	7°Ω06'13	0.56968 AU
use. Hode	8663 Sep 30 12:06	ე∘ <u>ი</u>		morning rise	8664 Aug 01 20:24	4°Ω19'58	0.50700710
morning set	8663 Oct 06 00:26	ა — 11° ჲ 16'37		direct	8664 Aug 07 10:31	3°Ω04'04	
morning sec	0003 001 00 00.20	11 —1037		morning max el	8664 Aug 21 17:44	10°Ω31'20	26°21'27
superior conj	8663 Oct 12 21:16	26° £ 15'06	1°37'24	morning man or	8664 Sep 05 16:07	0° m)	20 21 27
minimum elong	8663 Oct 12 20:04	26° ₽ 08'31	1°37'25	asc. node	8664 Sep 15 23:26	18° m) 45'36	
max. Earth dist.	8663 Oct 14 14:49	0°M01'41	1.32495 AU	morning set	8664 Sep 19 11:03	25° m 59'19	
	8663 Oct 14 14:30	0°M			8664 Sep 21 07:50	0∘ ⊽	
evening rise	8663 Oct 20 03:13	11° M 41'59			**************************************		
<i>8</i>	8663 Oct 29 18:06	0° ∡ 7		superior conj	8664 Sep 26 08:33	11° ≏ 05'10	1°28'01
desc. node	8663 Nov 03 15:26	8° √ 11'56		minimum elong	8664 Sep 26 06:37	10° ≏ 54'28	1°27'50
	8663 Nov 19 21:37	0°ප		max. Earth dist.	8664 Sep 26 22:47	12° ≏ 24'01	1.31828 AU
evening max el	8663 Nov 22 05:31	2°る19'41	27°29'23	evening rise	8664 Oct 03 06:26	26° ഫ 06'38	
retrograde	8663 Dec 05 23:37	9° ප 37'43		8	8664 Oct 05 03:27	0°M₊	
evening set	8663 Dec 13 01:09	7° る 09'05		desc. node	8664 Oct 20 12:33	27° M 24'13	
min. Earth dist.	8663 Dec 16 18:12	4° る 02'40	0.63044 AU		8664 Oct 22 06:39	0° ∡ 7	
inferior conj	8663 Dec 19 12:29	1°る20'20	-2°28'36	evening max el	8664 Nov 03 12:21	14° ∡ ¹47'52	27°10'23
minimum elong	8663 Dec 19 17:13	1°る08'42	2°26'33	retrograde	8664 Nov 17 09:30	21° × 759'08	
	8663 Dec 20 21:47	30°R. ✓		evening set	8664 Nov 24 09:49	19° ∡ ¹47'44	
morning rise	8663 Dec 26 11:21	26° ₹ 07'47		min. Earth dist.	8664 Nov 28 03:04	17° х 03′46	0.61040 AU
asc. node	8663 Dec 27 01:59	25° ₹ 56'15		inferior conj	8664 Dec 01 05:25	14°×7'23'12	
direct	8663 Dec 28 19:19	25° ₹ '42'12		minimum elong	8664 Dec 01 12:14	14° х 08′26	
morning max el	8664 Jan 04 10:38	29° х 07′03	17°47'36	morning rise	8664 Dec 08 17:00	9° х ⁷ 30′00	
5 5	8664 Jan 05 07:03	0°ප		direct	8664 Dec 10 21:52	9° х 10′12	
morning set	8664 Jan 20 14:16	23° る 57'01		asc. node	8664 Dec 12 23:01	9° × 127'58	
3	8664 Jan 24 01:36	0° ≈		morning max el	8664 Dec 18 01:45	12° х 45′53	17°56'45
desc. node	8664 Jan 30 14:39	11°≈10'28			8664 Dec 29 15:59	0°ප	
				morning set	8665 Jan 02 17:27	7° ට 23'13	
superior conj	8664 Feb 01 13:38	14° ≈ 26′28	-0°14'21	<i>5 5 1 1 1 1 1 1 1 1 1 1</i>			
minimum elong	8664 Feb 01 12:10	14° ≈ 20′21	0°13'58	superior conj	8665 Jan 13 01:00	25° る 58'32	0°25'29
behind sun begin	8664 Feb 01 07:31	14° ≈ 01'04		minimum elong	8665 Jan 13 03:06	26° පි 07'41	0°25'21
behind sun end	8664 Feb 01 16:48	14° ≈ 39'36			8665 Jan 15 08:46	0° ≈	
max. Earth dist.	8664 Feb 07 23:59	24°≈55'28	1.44165 AU	desc. node	8665 Jan 16 11:38	1° ≈ 54'52	
	8664 Feb 11 04:37	0°) €		max. Earth dist.	8665 Jan 20 13:45	8° ≈ 46'00	1.42543 AU
evening rise	8664 Feb 16 17:36	8°) €38'13		evening rise	8665 Jan 26 15:00	18° ≈ 32'49	
<i>8</i>	8664 Mar 01 23:35	0°Υ		8	8665 Feb 03 00:46	0° ∀	
evening max el	8664 Mar 17 10:31		20°59'50		8665 Feb 24 16:44	0° Υ	
asc. node	8664 Mar 24 00:52	24° Ƴ 50'57		evening max el	8665 Feb 28 05:14	3° Y 51'35	22°15'18
retrograde	8664 Mar 25 22:20	25° Y ′09′10		retrograde	8665 Mar 09 19:25	9° Y ′32'25	
evening set	8664 Mar 30 02:19	23° Y 31'14		asc. node	8665 Mar 10 21:58	9° Y 26'14	
inferior conj	8664 Apr 04 09:33	17° Υ 19'22	2°59'22	evening set	8665 Mar 14 10:12	7° Y ′39'16	
minimum elong	8664 Apr 04 07:42	17° Y 25'44	2°58'59	inferior conj	8665 Mar 19 18:07	1° Y 18′02	2°32'14
min. Earth dist.	8664 Apr 04 19:51	16° Ƴ 43'44	0.68136 AU	minimum elong	8665 Mar 19 15:54	1° Y 25'45	2°31'40
morning rise	8664 Apr 09 12:52	11° Y ′04'31		min. Earth dist.	8665 Mar 19 15:53	1° Y 25'50	0.68455 AU
direct	8664 Apr 14 20:52	8° Y 43'06			8665 Mar 20 16:39	30° ₽ ₩	
morning max el	8664 Apr 25 12:50		23°37'47	morning rise	8665 Mar 24 21:27	25° ¥ 07'40	
desc. node	8664 Apr 27 14:33	17° Y 16'31		direct	8665 Mar 29 15:33	23°) €07'06	
	8664 May 07 17:21	0°8		morning max el	8665 Apr 08 00:24	28°) 36'37	22°09'01
	8664 May 27 12:15	0°II			8665 Apr 09 08:28	0° Υ	
morning set	8664 May 30 18:01	5° Ⅱ 25'22		desc. node	8665 Apr 14 11:29	6° Y 03'14	
max. Earth dist.	8664 Jun 03 15:40	12° Ⅱ 09'41	1.38875 AU		8665 May 01 09:45	0°8	
				morning set	8665 May 11 04:43	15° 8 19'30	
superior conj	8664 Jun 11 03:36	25° ∏ 46'55	-1°19'02	max. Earth dist.	8665 May 16 14:12	24° 8 12'27	1.41117 AU
minimum elong	8664 Jun 11 08:32	26° Ⅲ 10′02		man. Bartir digt.	8665 May 20 00:00	0°II	1.11117110
	8664 Jun 13 09:08	0.20				-	
asc. node	8664 Jun 19 23:50	12°5548'07		superior conj	8665 May 24 08:38	7° Ⅱ 37'25	-1°47'14
evening rise	8664 Jun 20 08:51	13°932'01		minimum elong	8665 May 24 14:34	7 Д 3723 8° Д 03'47	1°46'50
	8664 Jun 29 07:07	0° Ω		evening rise	8665 Jun 03 19:18	26° II 45'07	
evening max el	8664 Jul 06 14:35	9° Ω 51'02	18°47'07		8665 Jun 05 13:13	0°95	
retrograde	8664 Jul 14 21:35	13°Ω57'52	-0 ., 0,	asc. node	8665 Jun 06 20:52	2°\$26'16	
evening set	8664 Jul 16 21:33	$13^{\circ} \Omega 44'25$		evening max el	8665 Jun 19 21:55	22°\$27'01	18°16'18
inferior conj	8664 Jul 24 22:58	9° Ω 23'46	-0°06'54	retrograde	8665 Jun 27 02:22	26°503'47	10 10 10
minimum elong	8664 Jul 24 22:41	9° Ω 24'17	0°06'58	evening set	8665 Jun 29 09:33	20 3 03 47 25° 5 42'22	
transit middle	8664 Jul 24 22:41	9° Ω 24'17	0°06'58	inferior conj	8665 Jul 06 15:23	23 34 2 22 21° 5 00'56	1°22'57
transit begin	8664 Jul 24 19:21	9° Ω 30'21	0 00 20	minimum elong	8665 Jul 06 17:54	21 900 30 20°955'33	1°21'55
transit ocgili	550 T Jul 27 17.21	> 0 CJU 41		mmmum clong	5005 Jul 00 17.54	20 33333	1 21 33

min. Earth dist.	8665 Jul 10 00:39	18°908'45	0.59034 AU	min. Earth dist.	8666 Jun 22 06:28	0°9314'43	0.61284 AU
desc. node	8665 Jul 11 10:56	17°902'20	0.57054710	mm. Larm dist.	8666 Jun 22 12:47	30°RII	0.01204710
morning rise	8665 Jul 13 23:05	15°524'14		morning rise	8666 Jun 25 20:14	27° Ⅱ 18'49	
direct	8665 Jul 20 05:33	13°937'34		desc. node	8666 Jun 28 07:59	25° I 56'00	
morning max el	8665 Aug 03 14:33	21° © 25'11	27°26'37	direct	8666 Jul 02 12:08	25° I 02'55	
morning man er	8665 Aug 11 02:08	0°Ω	2, 203,	unior	8666 Jul 13 10:04	0.00 0.00	
	8665 Aug 29 14:05	0° m/y		morning max el	8666 Jul 16 18:12	3°503'00	27°55'02
asc. node	8665 Sep 02 20:24	8° m/33'52		morning must be	8666 Aug 05 14:49	0° Ω	2, 22 02
morning set	8665 Sep 03 18:55	10° mp 31'25		morning set	8666 Aug 18 22:07	24° Ω 47'27	
				asc. node	8666 Aug 20 17:23	28° £ 32′50	
superior conj	8665 Sep 10 20:20	25° m 53'21	1°13'24		8666 Aug 21 09:53	0° m)	
minimum elong	8665 Sep 10 18:05	25° mp 40'54	1°13'01	max. Earth dist.	8666 Aug 24 17:32	7° m 09'31	1.31864 AU
max. Earth dist.	8665 Sep 10 09:01	24° m/50'33	1.31618 AU				
	8665 Sep 12 16:46	0∘ <u>v</u>		superior conj	8666 Aug 26 06:49	10° m/34'02	0°53'53
evening rise	8665 Sep 17 14:30	10° - 42'51		minimum elong	8666 Aug 26 04:45	10° m) 22'37	0°53'25
<i>8</i>	8665 Sep 27 09:27	0° M .		evening rise	8666 Sep 02 01:19	25° m) 24'14	
desc. node	8665 Oct 07 09:40	15°M49'23		Z .	8666 Sep 04 05:26	0∘ <u>v</u>	
evening max el	8665 Oct 16 12:05	26°M27'01	26°17'25		8666 Sep 21 17:33	0° M ,	
<i>8</i>	8665 Oct 20 19:11	0° ∡ ¹		desc. node	8666 Sep 24 06:46	3°M08'59	
retrograde	8665 Oct 30 10:03	3° ∡ ³31'51		evening max el	8666 Sep 28 03:40	7°ML16'03	24°55'38
evening set	8665 Nov 05 23:24	1° ∡ ¹47'41		retrograde	8666 Oct 11 24:00	14° M L14'37	
8	8665 Nov 08 22:39	30°RML		evening set	8666 Oct 17 13:28	13°ML04'53	
min. Earth dist.	8665 Nov 10 01:15	29°M13'11	0.58948 AU	min. Earth dist.	8666 Oct 22 15:00	10°M21'31	0.56990 AU
inferior conj	8665 Nov 13 05:30	26°M50'03		inferior conj	8666 Oct 25 09:50	8°ML32'18	
minimum elong	8665 Nov 13 12:46	26°M36'20	4°41'44	minimum elong	8666 Oct 25 13:57	8°M25'34	5°27'20
morning rise	8665 Nov 21 04:28	22°M19'12		morning rise	8666 Nov 02 16:42	4° M ₊24'17	
direct	8665 Nov 23 10:19	22°ML01'58		direct	8666 Nov 05 04:25	4°ML06'45	
asc. node	8665 Nov 29 20:03	24°M31'45		morning max el	8666 Nov 14 10:58	8°M31'19	19°16'22
morning max el	8665 Dec 01 11:04	25°M57'09	18°25'47	asc. node	8666 Nov 16 17:04	10°M55'12	
Ü	8665 Dec 04 23:01	0° ∡ ¹			8666 Nov 28 11:24	0° ∡ ¹	
morning set	8665 Dec 17 09:34	21° х 24'47		morning set	8666 Dec 01 10:30	5° ∡ 750'04	
3	8665 Dec 21 21:08	0°ප		8			
				superior conj	8666 Dec 09 13:56	21° ₹ ′59'32	1°19'43
superior conj	8665 Dec 26 10:47	8° ට 34'15	0°57'07	minimum elong	8666 Dec 09 16:56	22° ∡ 14′04	1°19'36
minimum elong	8665 Dec 26 14:07	8° る 49'37	0°56'51		8666 Dec 13 18:54	0°ප	
max. Earth dist.	8666 Jan 02 22:49	21° ප 57'01	1.40522 AU	max. Earth dist.	8666 Dec 16 04:35	4° ට 25'24	1.38347 AU
desc. node	8666 Jan 03 08:38	22° ට 39'14		evening rise	8666 Dec 19 22:34	11° る 05'39	
evening rise	8666 Jan 07 07:50	29° ට 20'14		desc. node	8666 Dec 21 05:40	13° る 20'09	
	8666 Jan 07 17:29	0° ≈			8666 Dec 31 11:34	0° ≈	
	8666 Jan 27 12:46	0°) €			8667 Jan 23 00:53	0°)	
evening max el	8666 Feb 10 20:15	17°) € 35'53	23°35'16	evening max el	8667 Jan 24 09:31	1° ¥ 22'51	24°53'27
retrograde	8666 Feb 21 13:41	23°) 55'46		retrograde	8667 Feb 05 04:09	8°) 14'06	
asc. node	8666 Feb 25 19:05	22°) 29'14		evening set	8667 Feb 10 19:18	5°¥53'26	
evening set	8666 Feb 26 16:23	21°) 47′59		asc. node	8667 Feb 12 16:11	4°) €03'26	
min. Earth dist.	8666 Mar 03 12:33	16° ¥ 09'03	0.68349 AU	min. Earth dist.	8667 Feb 15 07:41	0°) 48′57	0.67840 AU
inferior conj	8666 Mar 04 02:39	15°) € 20'49	1°56'08		8667 Feb 15 22:33	30°R≈	
minimum elong	8666 Mar 04 00:29	15° ¥ 28'12		inferior conj	8667 Feb 16 09:16	29° ≈ 24'34	1°11'34
morning rise	8666 Mar 09 08:35	9°) 16′12		minimum elong	8667 Feb 16 07:41	29° ≈ 29'51	1°11'05
direct	8666 Mar 13 12:58	7°) 38′07		morning rise	8667 Feb 21 20:18	23° ≈ 27'08	
morning max el	8666 Mar 21 17:58	12° ₩ 19'47	20°47'56	direct	8667 Feb 25 11:55	22° ≈ 10'36	
desc. node	8666 Apr 01 08:25	25° ¥ 28′02		morning max el	8667 Mar 04 19:21	26°≈15'01	19°39'33
	8666 Apr 04 13:16	0°Υ			8667 Mar 08 04:19	0°) €	
morning set	8666 Apr 20 13:43	24° Y ′04'55		greatest brilliancy	8667 Mar 17 12:40	12° ¥ 50′12	-0.7m
	8666 Apr 24 08:06	0°8		desc. node	8667 Mar 19 05:21	15° ¥ 20'34	
max. Earth dist.	8666 Apr 28 19:28		1.43099 AU	dese. node	8667 Mar 28 21:28	0°Υ	
max. Darm dist.	0000 rpr 20 19.20	, 01011	1.15077110	morning set	8667 Mar 30 11:22	2° Υ 25'42	
superior conj	8666 May 05 15:16	18° 8 26'41	-2°06'52	max. Earth dist.	8667 Apr 11 07:26	20° Υ '53'55	1.44579 AU
minimum elong	8666 May 05 19:25	18° 8 44'09		Zartii dist.	500,12p1 11 07.20	_0 10000	15/2/10
mmmum ciong	8666 May 12 08:51	0°Ⅱ	2 00 17	superior conj	8667 Apr 15 21:13	28° Y ′12'11	-2°11'37
evening rise	8666 May 17 14:40	0 Ⅱ 9°Ⅱ14'45		minimum elong	8667 Apr 15 19:32	28° Υ 05'27	
asc. node	8666 May 24 17:56	9 П 14 43 21° П 45'25		minimum ciong	8667 Apr 16 23:57	0° 8	∠ 11 1 U
asc. Hour	•	21° Щ 45°25		avaning rise	-	20° 8 51'02	
avaning may al	8666 May 29 22:41 8666 Jun 03 09:58	5°929'38	18°05'13	evening rise	8667 Apr 29 14:16	20° ⊠ 51′02	
evening max el			10 03 13	aca node	8667 May 05 00:29	0°Щ 10°Щ39'06	
retrograde	8666 Jun 09 23:34	8°952'10		asc. node	8667 May 11 14:59		10012102
evening set	8666 Jun 12 14:14	8°919'54	2025107	evening max el	8667 May 17 23:23	18° Ⅱ 50'40	18°13'03
inferior conj	8666 Jun 19 03:27	3°918'31	2°25'07	retrograde	8667 May 24 08:30	22° Ⅱ 13'21	
minimum elong	8666 Jun 19 06:24	3° © 11'13	2°24'10	evening set	8667 May 27 06:31	21° Ⅱ 28'14	

	0667 1 02 07 07	1.0011.0012.0	2002127		0660 M 15 22 24	200	2010140
inferior conj	8667 Jun 02 07:07	16° Ⅱ 08'36		inferior conj	8668 May 15 22:24	_	3°19'49
minimum elong	8667 Jun 02 09:12	16° Ⅱ 02'49	3°01'55	minimum elong	8668 May 15 23:10	29° 8 21'03	3°19'35
min. Earth dist.	8667 Jun 04 21:33	13° Ⅱ 15'52	0.63440 AU	min. Earth dist.	8668 May 17 21:44	26° 8 59'22	0.65302 AU
morning rise	8667 Jun 08 10:28	9° Ⅱ 56'10		morning rise	8668 May 21 15:04	23° 8 05'47	
direct	8667 Jun 15 04:26	7° Ⅱ 19'09		direct	8668 May 28 04:33	20° 8 19'33	
desc. node	8667 Jun 15 05:01	7° Ⅱ 19'09		desc. node	8668 Jun 01 02:01	21° 8 09'15	
morning max el	8667 Jun 29 02:33	15° Ⅲ 22'06	27°45'16	morning max el	8668 Jun 10 12:50	28° 8 12'32	27°02'03
	8667 Jul 11 01:20	0 \circ \odot			8668 Jun 12 05:51	$\Pi^{\circ}0$	
	8667 Jul 29 07:04	$0^{\circ}\Omega$			8668 Jul 03 19:44	0 \circ \odot	
morning set	8667 Aug 02 18:19	8° Ω 40′12		morning set	8668 Jul 16 04:41	22° © 02'13	
asc. node	8667 Aug 07 14:20	18° Ω 37'15			8668 Jul 20 05:37	$0^{\circ}\Omega$	
max. Earth dist.	8667 Aug 07 20:15	19° Ω 08'32	1.32595 AU	max. Earth dist.	8668 Jul 20 13:43	0° Ω 40'54	1.33824 AU
				asc. node	8668 Jul 24 11:18	8° Ω 43'32	
superior conj	8667 Aug 10 14:05	25° Ω 00'55	0°29'54		2. 11.10	0 00 .5 52	
minimum elong	8667 Aug 10 12:43	24° £ 53'31	0°29'29	superior conj	8668 Jul 24 16:05	9° Ω 08'34	0°02'01
minimum ciong	8667 Aug 12 21:13	0°m	0 2)2)	minimum elong	8668 Jul 24 15:59	9° Ω 08'03	0°01'50
avanina risa	•	10° MD 04'18		Č	8668 Jul 24 10:22	8° Ω 38'36	0 01 30
evening rise	8667 Aug 17 12:55			behind sun begin			
	8667 Aug 27 17:18	0° ʊ	22015140	behind sun end	8668 Jul 24 21:35	9° Ω 37'33	
evening max el	8667 Sep 09 14:49	17° ≏ 31'38	23°17'48	evening rise	8668 Jul 31 23:28	24° Ω 38'06	
desc. node	8667 Sep 11 03:54	18° ≏ 56'55			8668 Aug 03 13:32	0° ™	
retrograde	8667 Sep 23 01:41	24° £ 15′04		evening max el	8668 Aug 21 06:06	27° Mp 48'40	21°40'38
evening set	8667 Sep 27 04:02	23° ≏ 38'22			8668 Aug 23 17:08	0∘ ⊽	
min. Earth dist.	8667 Oct 04 00:18	20° ≏ 27'40	0.55475 AU	desc. node	8668 Aug 28 00:59	2° ₽ 42'21	
inferior conj	8667 Oct 05 18:15	19° ≙ 26'15	-5°33'05	retrograde	8668 Sep 02 16:06	3° ≏ 58'18	
minimum elong	8667 Oct 05 15:12	19° ≙ 30'45	5°32'50	evening set	8668 Sep 05 08:58	3° ≏ 41'48	
morning rise	8667 Oct 14 04:27	15° ≏ 34'50		-	8668 Sep 14 00:58	30°R, Mp	
direct	8667 Oct 17 03:06	15° ≏ 13'59		inferior conj	8668 Sep 14 12:53	29° m 43'21	-4°43'45
morning max el	8667 Oct 27 22:22	20° £ 18'06	20°29'28	minimum elong	8668 Sep 14 03:47	29° m 56'04	4°41'42
asc. node	8667 Nov 03 14:04	28° £ 21'41	20 29 20	min. Earth dist.	8668 Sep 14 08:38	29° mp 49'17	0.54719 AU
use. Houe	8667 Nov 04 16:06	0°M		morning rise	8668 Sep 22 23:42	25° m 53'46	0.5 17 17 110
morning sot	8667 Nov 15 17:11	20°M29'31		direct	8668 Sep 26 13:13	25° m/26'03	
morning set		20 IIG2931 0° √ 7		direct	•	0° ⊽	
	8667 Nov 20 07:30	0. ×.			8668 Oct 07 10:33		22002151
				morning max el	8668 Oct 08 20:50	1° 2 15'36	22°02′51
superior conj	8667 Nov 23 05:43	6° ₰ 00'01	1°33'52	asc. node	8668 Oct 20 11:02	16° △ 37'02	
minimum elong	8667 Nov 23 07:37	6° ∡ 09'39	1°33'56		8668 Oct 27 14:02	0°M	
max. Earth dist.	8667 Nov 28 11:45	16° ≯ 24'23	1.36264 AU	morning set	8668 Oct 30 03:16	5° ™ 16'41	
evening rise	8667 Dec 02 08:57	23° ҂ ⁴42'52					
	8667 Dec 05 20:53	0°る		superior conj	8668 Nov 06 06:20	20°M24'38	1°40'25
desc. node	8667 Dec 08 02:41	3°₹53'02		minimum elong	8668 Nov 06 06:56	20° M 27'44	1°40'34
	8667 Dec 25 03:48	0° ≈		max. Earth dist.	8668 Nov 10 01:26	28° M ₊17'14	1.34474 AU
evening max el	8668 Jan 06 22:39	15°≈10'05	26°02'49		8668 Nov 10 21:43	0° ∡ ¹	
retrograde	8668 Jan 19 13:45	22° ≈ 21'18		evening rise	8668 Nov 14 11:14	7° ∡ °02′03	
evening set	8668 Jan 25 17:17	19° ≈ 50'54		desc. node	8668 Nov 23 23:43	24° ∡ 12'54	
min. Earth dist.	8668 Jan 29 23:03	15° ≈ 20'55	0.66946 AU		8668 Nov 27 12:23	5°0	
asc. node	8668 Jan 30 13:17	14° ≈ 36'52		evening max el	8668 Dec 19 12:02	28° ろ 50'38	26°55'56
inferior conj	8668 Jan 31 12:05	13°≈25'38	0°18'53	evening max er	8668 Dec 20 17:48	0° ≈	20 33 30
minimum elong	8668 Jan 31 11:36	13°≈27'10	0°18'50	retrograde	8669 Jan 01 17:37	0 ~ 6° ≈ 10'11	
morning rise	8668 Feb 06 06:33	7°≈37'11	0 10 50	evening set	8669 Jan 08 08:21	3°≈34'51	
•				evening set			
direct	8668 Feb 09 10:51	6°≈39'33	1004612.5	1 m 1 m	8669 Jan 12 00:50	30°₹ ⋜	0.65600.433
morning max el	8668 Feb 16 04:10	10°≈18'57	18°46'35	min. Earth dist.	8669 Jan 12 08:17	29°₹39'09	0.65690 AU
	8668 Mar 01 12:27	0° ∀		inferior conj	8669 Jan 14 08:56	27° る 19'07	
desc. node	8668 Mar 05 02:16	5° ∺ 33'18		minimum elong	8669 Jan 14 10:08	27° る 15'42	0°40'43
morning set	8668 Mar 08 21:55	11°) 31'27		asc. node	8669 Jan 16 10:21	25° る 01'28	
	8668 Mar 20 17:27	0 ° $\mathbf{\Upsilon}$		morning rise	8669 Jan 20 13:03	21° る 42'12	
max. Earth dist.	8668 Mar 24 00:22	5° Ƴ 08'51	1.45402 AU	direct	8669 Jan 23 07:51	20°る59'54	
				morning max el	8669 Jan 29 18:29	24° る 25'38	18°10'09
superior conj	8668 Mar 25 07:26	7° Υ 10'41	-1°56'36		8669 Feb 03 09:48	0° ≈	
minimum elong	8668 Mar 24 23:11	6° Ƴ 38'18	1°56'04	morning set	8669 Feb 17 12:33	22° ≈ 02'56	
	8668 Apr 08 16:31	0°8	-	desc. node	8669 Feb 19 23:11	26°≈00'18	
evening rise	8668 Apr 09 14:32	1° 8 28'31			8669 Feb 22 10:39	0° ₩	
greatest brilliancy	8668 Apr 16 06:28	12° 8 12'23	-0.9m		0007100 22 10.39	ν <i>Λ</i> (
	•		0.7111	aunariar aari	9660 Mar 04 12:11	160¥02157	1022105
asc. node	8668 Apr 27 12:04	28° ႘ 59'06		superior conj	8669 Mar 04 13:11	16° ¥ 03'55	
	8668 Apr 28 07:46	0° П	10020107	minimum elong	8669 Mar 04 04:07	15°) €28'18	
evening max el	8668 Apr 30 11:20	2° Ⅱ 23'05	18°39'05	max. Earth dist.	8669 Mar 06 20:01	19° ¥ 39'07	1.45494 AU
retrograde	8668 May 07 01:03	5° Ⅱ 59'06			8669 Mar 13 11:04	0° Υ	
evening set	8668 May 10 06:33	4° ∏ 59'50		evening rise	8669 Mar 20 16:28	11° Y 14'17	
	8668 May 15 10:21	30° ₹8			8669 Apr 01 20:30	0° 8	

araataat brillianav	9660 Amr 01 20:27	29° Ƴ 59'48	-0.7m	aca mada	9670 Apr 01 06:14	3° 8 11'12	
greatest brilliancy	8669 Apr 01 20:27			asc. node	8670 Apr 01 06:14		
evening max el	8669 Apr 13 19:30	16° 8 00'24	19°22'11	retrograde	8670 Apr 04 20:23	4°816'04	
asc. node	8669 Apr 14 09:09	16° 8 34'02		evening set	8670 Apr 08 18:49	2° 8 46'40	
retrograde	8669 Apr 20 21:51	20° 8 01'38			8670 Apr 11 13:40	30° Ŗ ♈	
evening set	8669 Apr 24 11:23	18° 8 47'28		inferior conj	8670 Apr 14 02:31	26° Ƴ 41'18	3°10'34
inferior conj	8669 Apr 29 21:47	12° 8 55'41	3°21'30	minimum elong	8670 Apr 14 01:05	26° Y 46'12	3°10'17
minimum elong	8669 Apr 29 21:18	12° 8 57'13	3°21'21	min. Earth dist.	8670 Apr 14 20:21	25° Ƴ 40′27	0.67767 AU
min. Earth dist.	8669 May 01 05:53	11° 8 10'56	0.66758 AU	morning rise	8670 Apr 19 07:08	20° Ƴ 24'43	
morning rise	8669 May 05 06:53	6° ႘ 37′20		direct	8670 Apr 24 22:51	17° Y 53'33	
direct	8669 May 11 10:59	3° 8 53'53		desc. node	8670 May 05 19:59	24° Ƴ 12'04	
desc. node	8669 May 18 22:59	6° 8 56'47		morning max el	8670 May 06 08:13	24° Y '42'39	24°29'19
morning max el	8669 May 23 22:53	11° 8 22'02	25°53'31		8670 May 11 02:31	0°8	
morning max or	8669 Jun 07 19:29	0°II	20 00 01		8670 Jun 01 06:30	0°II	
		0° ©				16° Ⅱ 29'19	
	8669 Jun 26 11:04			morning set	8670 Jun 11 03:49		1 27506 444
morning set	8669 Jun 29 01:27	4°542'45		max. Earth dist.	8670 Jun 14 19:07	22° Ⅱ 57'52	1.37596 AU
max. Earth dist.	8669 Jul 02 20:31	11° © 50'32	1.35523 AU		8670 Jun 18 14:34	0ං ව	
superior conj	8669 Jul 08 10:09	22° © 49'22	0020140	superior conj	8670 Jun 21 17:06	5° © 55'11	1000'56
minimum elong	8669 Jul 08 11:51	22°558'00	0°28'41	minimum elong	8670 Jun 21 20:54	6°5013'35	1°00'30
asc. node	8669 Jul 11 08:16	28°5647'17		asc. node	8670 Jun 28 05:16	18° 5 544'40	
	8669 Jul 11 22:23	$0 {\circ} \Omega$		evening rise	8670 Jun 30 08:40	23°500'51	
evening rise	8669 Jul 16 06:52	8° Ω 59'13			8670 Jul 03 22:07	0 \circ Ω	
	8669 Jul 27 14:25	0° m)		evening max el	8670 Jul 17 00:53	20° Ω 12'13	19°13'55
evening max el	8669 Aug 03 08:52	8° Mp 37'57	20°17'19	retrograde	8670 Jul 26 04:19	24° Ω 43'44	
retrograde	8669 Aug 14 04:34	13° m 59'03		evening set	8670 Jul 28 01:20	24° £ 33′06	
desc. node	8669 Aug 14 22:04	13° m 57'41		desc. node	8670 Aug 01 19:10	22° Ω 43'57	
evening set	8669 Aug 16 03:45	13° m) 49'14		inferior conj	8670 Aug 05 13:51	20° Ω 22'41	-1°09'38
inferior conj	8669 Aug 25 06:43	9° m 51'21	-3°05'54	minimum elong	8670 Aug 05 10:47	20° Ω 27'49	1°08'35
minimum elong	8669 Aug 24 22:27	10° m 03'29	3°03'08	min. Earth dist.	8670 Aug 08 07:27	18° Ω 33'40	0.55996 AU
min. Earth dist.	8669 Aug 26 18:19	8° m 59'07	0.54899 AU	morning rise	8670 Aug 13 17:20	15° Ω 40'21	0.000000110
morning rise	8669 Sep 02 16:15	5° Mp 43'29	0.54677 AC	direct	8670 Aug 18 19:51	14°Ω40'29	
•	•				•	21°Ω51'12	25020146
direct	8669 Sep 06 23:11	5° Mp 03'51	22040117	morning max el	8670 Sep 01 23:16		25-30-46
morning max el	8669 Sep 20 10:39	11° mp 37'27	23°48'16		8670 Sep 09 03:12	0° m)	
	8669 Oct 04 05:54	0∘ ⊽		asc. node	8670 Sep 24 04:57	24° m 49'50	
asc. node	8669 Oct 07 08:00	5° Ω 29'43			8670 Sep 26 18:27	0∘ ত	
morning set	8669 Oct 14 14:55	20° ≏ 06'27		morning set	8670 Sep 29 02:22	4° ≏ 53'23	
	8669 Oct 19 04:47	0°M₊					
				superior conj	8670 Oct 05 23:03	19° ≏ 53'35	1°34'06
superior conj	8669 Oct 21 12:55	5°M05'06	1°40'16	minimum elong	8670 Oct 05 21:29	19° ≏ 45'01	1°34'02
minimum elong	8669 Oct 21 12:18	5° ™ 01'45	1°40'22	max. Earth dist.	8670 Oct 07 04:50	22° ≏ 37'28	1.32150 AU
max. Earth dist.	8669 Oct 23 23:38	10°M20'45	1.33086 AU		8670 Oct 10 14:28	0° M	
evening rise	8669 Oct 29 01:41	20°M53'35		evening rise	8670 Oct 13 01:01	5° M ₊08'12	
-	8669 Nov 02 18:13	0° ∡ ¹		_	8670 Oct 26 09:21	0° ∡ ″	
desc. node	8669 Nov 10 20:46	14° ∡ 13'45		desc. node	8670 Oct 28 17:51	3° ∡ ¹46'53	
	8669 Nov 21 10:57	0°る		evening max el	8670 Nov 14 09:58	25° ₹ '04'12	27°25'28
evening max el	8669 Dec 02 00:34	12° る 13'27	27°25'33	evening man er	8670 Nov 20 18:14	0°중	27 20 20
retrograde	8669 Dec 15 15:01	19° ට 33'02	27 23 33	retrograde	8670 Nov 28 05:23	2°る19'34	
evening set	8669 Dec 22 14:10	16°る59'23		evening set	8670 Dec 05 07:38	29° х 56'41	
•			0.64005.411	evening set			
min. Earth dist.	8669 Dec 26 09:11	13° る 36'25			8670 Dec 05 05:37	30°₹ ⋌ ¹	
inferior conj	8669 Dec 28 21:21	10° ろ 59'25		min. Earth dist.	8670 Dec 08 23:57	27° ∡ ¹01'24	0.62211 AU
minimum elong	8669 Dec 29 00:43	10° る 50'36	1°46'33	inferior conj	8670 Dec 11 22:19	24° ∡ 17'57	
asc. node	8670 Jan 03 07:25	6° る 14'12		minimum elong	8670 Dec 12 04:02	24° ₮ 04'38	2°56'29
morning rise	8670 Jan 04 12:59	5° る 37'04		morning rise	8670 Dec 19 02:38	19° ∡ 13'31	
direct	8670 Jan 07 00:19	5° る 06'22		direct	8670 Dec 21 08:57	18° ∡ ′50'47	
morning max el	8670 Jan 13 11:40	8° る 28'38	17°50'52	asc. node	8670 Dec 21 04:28	18° ∡ ¹50'56	
	8670 Jan 27 23:30	0° ≈		morning max el	8670 Dec 28 04:32	22° ∡ 18'51	17°49'18
morning set	8670 Jan 30 07:33	3°≈58'01			8671 Jan 03 03:22	0°ჳ	
desc. node	8670 Feb 06 20:07	16° ≈ 37'25		morning set	8671 Jan 13 00:46	16° る 55'54	
					8671 Jan 20 10:19	0° ≈	
superior conj	8670 Feb 12 09:22	25°≈43'08	-0°39'44				
minimum elong	8670 Feb 12 04:54	25°≈25'06		superior conj	8671 Jan 24 06:06	6° ≈ 33'33	0°03'24
	8670 Feb 15 01:13	0° ∀	3 3001	minimum elong	8671 Jan 24 06:26	6°≈34'59	0°03'32
max. Earth dist.		0 X 4° ¥ 08'11	1.44848 AU	Č	8671 Jan 23 21:48	5°≈58'24	0 03 32
	8670 Feb 17 15:35		1.44040 AU	behind sun begin			
evening rise	8670 Feb 28 05:05	20°) (35′11		behind sun end	8671 Jan 24 15:03	7°≈11'28	
	8670 Mar 06 09:27	0° Υ	2002012.5	desc. node	8671 Jan 24 17:05	7°≈20'02	1 42524 : **
evening max el	8670 Mar 27 22:27	29° Ƴ 39'47	20°20'25	max. Earth dist.	8671 Jan 31 07:41	18°≈15'50	1.43534 AU
	8670 Mar 28 06:31	0°8		evening rise	8671 Feb 07 19:00	0° ∺ 06'48	

	8671 Feb 07 17:15	0°){			8672 Jan 31 18:19	0° }{	
	8671 Feb 28 00:52	0° Υ		evening max el	8672 Feb 21 12:37	27°) 02'14	22°49'10
evening max el	8671 Mar 10 19:49	13° Y 19'56	21°30'55	Ü	8672 Feb 24 19:07	$0^{\circ}\Upsilon$	
asc. node	8671 Mar 19 03:21	18° Ƴ 35'21		retrograde	8672 Mar 02 14:45	3° Y 01'00	
retrograde	8671 Mar 19 18:36	18° Ƴ 37'24		asc. node	8672 Mar 05 00:29	2° Y 32'10	
evening set	8671 Mar 24 03:02	16° Ƴ 52'49		evening set	8672 Mar 07 10:23	1° Y 01'38	
inferior conj	8671 Mar 29 10:18	10° Ƴ 36'19	2°49'01		8672 Mar 08 12:49	30° ₹ ₩	
minimum elong	8671 Mar 29 08:15	10° Ƴ 43'27	2°48'33	inferior conj	8672 Mar 12 19:06	24°)(37'14	2°18'02
min. Earth dist.	8671 Mar 29 15:05	10° Ƴ 19'39	0.68324 AU	minimum elong	8672 Mar 12 16:51	24°) 45′02	2°17'24
morning rise	8671 Apr 03 13:19	4° Ƴ 23'10		min. Earth dist.	8672 Mar 12 11:47	25° ₭ 02'37	0.68453 AU
direct	8671 Apr 08 15:18	2° Y 10'29		morning rise	8672 Mar 17 23:12	18° ∺ 28'54	
morning max el	8671 Apr 18 18:10	8° Ƴ 10′28	22°59'32	direct	8672 Mar 22 11:19	16°) 37′51	
desc. node	8671 Apr 22 16:56	12° Ƴ 30'51		morning max el	8672 Mar 31 07:53	21°) 46'37	21°33'11
	8671 May 05 19:07	9° 8			8672 Apr 07 08:45	0 ° Υ	
morning set	8671 May 23 06:21	27° 8 08'19		desc. node	8672 Apr 08 13:53	1° Y 35′22	
	8671 May 24 23:26	0°II			8672 Apr 28 01:45	0°8	
max. Earth dist.	8671 May 27 15:29	4° Ⅱ 32'33	1.39843 AU	morning set	8672 May 02 05:27	6° 8 31'10	
		_		max. Earth dist.	8672 May 08 16:05	16° 8 56'51	1.42003 AU
superior conj	8671 Jun 04 08:57	18° Ⅱ 16'30					
minimum elong	8671 Jun 04 14:31	18° Ⅱ 42'04	1°31'11	superior conj	8672 May 16 05:00	29° 8 42'22	
	8671 Jun 10 15:12	0°©		minimum elong	8672 May 16 10:38	0° Ⅱ 06'50	1°56'43
evening rise	8671 Jun 14 01:51	6° © 34'57			8672 May 16 09:04	0° Π	
asc. node	8671 Jun 15 02:17	8° © 31'33		evening rise	8672 May 27 06:29	19° Ⅲ 31'03	
. ,	8671 Jun 27 22:09	0°N	10021120	asc. node	8672 May 31 23:20	28° Ⅱ 02'32	
evening max el	8671 Jun 30 03:47	2° Ω 28'54	18°31'30		8672 Jun 02 01:51	0°©	10000114
retrograde	8671 Jul 07 22:19	6° Ω 21'21		evening max el	8672 Jun 12 13:39	15°5518'01	18°09'14
evening set	8671 Jul 10 00:59	6° Ω 05'05	0024122	retrograde	8672 Jun 19 10:24	18°546'39	
inferior conj	8671 Jul 17 17:54 8671 Jul 17 19:09	1° Ω 35'46	0°34'32 0°33'54	evening set	8672 Jun 21 20:47	18°920'57	1052120
minimum elong		1° Ω 33'20 0° Ω 04'47	0-33-34	inferior conj	8672 Jun 28 19:08	13°931'15	1°52'38
desc. node	8671 Jul 19 16:16 8671 Jul 19 18:43	0°870447 30°R©		minimum elong min. Earth dist.	8672 Jun 28 22:04 8672 Jul 02 03:01	13°524'34 10°530'52	1°51'31 0.59990 AU
min. Earth dist.	8671 Jul 21 01:53	29°900'40	0.57799 AU	morning rise	8672 Jul 02 03:01 8672 Jul 05 20:27	7°943'25	0.39990 AU
morning rise	8671 Jul 25 09:47	29 \$300 40 26° \$516'33	0.37799 AU	desc. node	8672 Jul 05 13:21	7°954'28	
direct	8671 Jul 31 07:21	20 3 10 33 24° 9 47'49		direct	8672 Jul 12 08:01	5° 9 43'18	
direct	8671 Aug 11 23:52	0°Ω		morning max el	8672 Jul 26 16:12	13° © 37'46	27°43'17
morning max el	8671 Aug 14 16:27	2° Ω 25'41	26°53'19	morning max cr	8672 Aug 08 18:06	0°Ω	27 43 17
morning max or	8671 Sep 03 11:56	0° mp	20 33 17		8672 Aug 25 19:46	0° m)	
asc. node	8671 Sep 11 01:54	14° m) 29'57		morning set	8672 Aug 27 18:09	3° m 58'42	
morning set	8671 Sep 13 12:03	19° m 32'49		asc. node	8672 Aug 27 22:51	4° m) 23'18	
morning sec	8671 Sep 18 07:32	0∘ ⊽		max. Earth dist.	8672 Sep 02 23:54	17° Mp 26'27	1.31665 AU
	00/1 5 c p 10 0/.52	~		man. Bartin digt.	00/2 Sep 02 23.5 .	17 192027	1.51000110
superior conj	8671 Sep 20 10:47	4° £ 44'09	1°22'26	superior conj	8672 Sep 03 22:14	19° m 30'02	1°05'41
minimum elong	8671 Sep 20 08:40	4° £ 32'25	1°22'10	minimum elong	8672 Sep 03 20:00	19° m) 17'40	1°05'16
max. Earth dist.	8671 Sep 20 14:07	5° ഫ 02'43	1.31676 AU	Č	8672 Sep 08 16:21	0∘ <u>v</u>	
evening rise	8671 Sep 27 06:35	19° ≏ 38'48		evening rise	8672 Sep 10 16:02	4° ≏ 17'55	
	8671 Oct 02 08:24	o° m			8672 Sep 24 04:37	o° m	
desc. node	8671 Oct 15 14:57	22°M41'15		desc. node	8672 Oct 01 12:04	10°M41'06	
	8671 Oct 21 00:40	0° ∡ ¹		evening max el	8672 Oct 08 10:04	18°M28'54	25°45'35
evening max el	8671 Oct 27 13:49	7° √ 11'41	26°51'50	retrograde	8672 Oct 22 08:15	25°M31'29	
retrograde	8671 Nov 10 11:47	14° ≯ 21'02		evening set	8672 Oct 28 12:47	24°M01'48	
evening set	8671 Nov 17 08:48	12° ∡ 19'47		min. Earth dist.	8672 Nov 01 22:38	21°M25'33	0.58078 AU
min. Earth dist.	8671 Nov 21 04:07	9° ∡ 11'54	0.60146 AU	inferior conj	8672 Nov 05 00:22	19°M15'01	-5°05'54
inferior conj	8671 Nov 24 08:27	7° ∡ 06'19	-4°08'02	minimum elong	8672 Nov 05 06:50	19°M03'31	5°04'36
minimum elong	8671 Nov 24 15:47	6° ₰ 51'21	4°05'44	morning rise	8672 Nov 13 03:13	14°M53'51	
morning rise	8671 Dec 02 01:14	2° ҂ 22'40		direct	8672 Nov 15 10:45	14°M36'56	
direct	8671 Dec 04 05:49	2° ҂ 04′28		asc. node	8672 Nov 23 22:32	18°M41'53	
asc. node	8671 Dec 08 01:31	3° 尽 02'40		morning max el	8672 Nov 23 23:23	18°M43'55	18°44'33
morning max el	8671 Dec 11 17:41	5° ∡ '47'25	18°06'36		8672 Dec 02 06:22	0° ∡ °	
morning set	8671 Dec 27 09:57	0°₹38'11		morning set	8672 Dec 10 06:15	14° ₹ 50'53	
	8671 Dec 27 01:47	0°る			8672 Dec 18 01:46	0°ප	
		—					
superior conj	8672 Jan 06 03:30	18°る34'01	0°39'59	superior conj	8672 Dec 18 21:14	1°る32'08	1°07'47
minimum elong	8672 Jan 06 06:23	18°る46'51	0°39'46	minimum elong	8672 Dec 19 00:34	1° 3 47'49	1°07'35
desc. node	8672 Jan 11 14:03	28° る 04'40		max. Earth dist.	8672 Dec 26 01:47	14° る 39'07	1.39598 AU
P 4 "	8672 Jan 12 17:10	0°≈	1 41515 : **	desc. node	8672 Dec 28 11:02	18°る48'00	
max. Earth dist.	8672 Jan 13 18:46	1°≈47'52	1.41712 AU	evening rise	8672 Dec 30 02:01	21° る 34'06	
evening rise	8672 Jan 18 23:48	10° ≈ 21'35			8673 Jan 04 04:45	0° ≈	

	8673 Jan 24 19:13	0°) €		desc. node	8673 Dec 15 08:01	9° る 25'49	
evening max el	8673 Feb 03 02:47	10°) 48′25	24°09'20	dese. Hode	8673 Dec 28 05:55	0°≈	
retrograde	8673 Feb 14 07:30	17°) 22'45	24 07 20	evening max el	8674 Jan 16 15:59	24°≈36'22	25°24'36
evening set	8673 Feb 19 15:20	17 X2243 15°¥09'29		evening max er	8674 Jan 23 11:23	0° \	23 24 30
asc. node	8673 Feb 19 21:35	13 X 09 29 14° X 55'53		retrograde	8674 Jan 28 19:45	1° ∺ 36'48	
min. Earth dist.	8673 Feb 24 08:08	9°) (45'01	0.68175 AU	retrograde	8674 Feb 02 15:03	1 7(3048 30°R≈	
inferior conj	8673 Feb 24 08:08 8673 Feb 25 03:02	8°) (4301	1°38'18	evening set	8674 Feb 02 15:05 8674 Feb 03 16:19	30 k∞ 29°≈11'38	
,	8673 Feb 25 01:03	8°) (47'51	1°37'41	asc. node	8674 Feb 03 18:19 8674 Feb 06 18:42	29 ≈11 38 25°≈58'44	
minimum elong		2° H 39'11	1 3/41	min. Earth dist.			0.67505 AU
morning rise	8673 Mar 02 10:49 8673 Mar 06 09:41	1° H 10'16			8674 Feb 08 01:50 8674 Feb 09 08:15	24°≈21'57 22°≈43'55	0.67303 AU 0°50'12
direct		5° H 34'39	20°17'06	inferior conj minimum elong		22 ≈ 43 33 22° ≈ 47'47	0°49'51
morning max el	8673 Mar 14 04:33 8673 Mar 26 10:49	21°¥13'15	20 1/00	_	8674 Feb 09 07:03 8674 Feb 14 22:09	22 ≈ 4747 16° ≈ 50'07	0 49 31
desc. node		21 χ1313 0° Υ		morning rise direct		16 ≈3007 15°≈41'51	
. ,	8673 Apr 01 10:30	0 γ 14° Υ 58'17			8674 Feb 18 08:52		10015107
morning set	8673 Apr 11 06:57	0° 8		morning max el	8674 Feb 25 09:10	19° ≈ 33'42	19°15'07
Earth diet	8673 Apr 20 20:19		1 42001 ATT		8674 Mar 05 17:32	0° ∺ 6° ∺ 56'46	0.7
max. Earth dist.	8673 Apr 21 00:18	0° 8 15'58	1.43801 AU	greatest brilliancy	8674 Mar 10 11:20	11° H 14'54	-0.7m
	0672 4 27 01 15	100	2011102	desc. node	8674 Mar 13 07:42		
superior conj	8673 Apr 27 01:15	10° 8 05'05		morning set	8674 Mar 21 07:12	23°) € 30'06	
minimum elong	8673 Apr 27 03:23	10° 8 13'54	2°11'09	n d ti	8674 Mar 25 11:53	0°Υ 140 0 01 (142	1 45010 411
	8673 May 08 19:08	0° П		max. Earth dist.	8674 Apr 03 15:10	14° γ 16'42	1.45018 AU
evening rise	8673 May 09 18:02	1° Ⅱ 39′22					
asc. node	8673 May 18 20:24	17° Ⅱ 12'04		superior conj	8674 Apr 06 21:29	19° Y 26′21	
evening max el	8673 May 27 02:46	28° Ⅲ 30′21	18°06'15	minimum elong	8674 Apr 06 16:41	19° Y 07'19	2°07'39
	8673 May 28 19:40	0.20			8674 Apr 13 11:37	0° 8	
retrograde	8673 Jun 02 13:04	1° © 50'49		evening rise	8674 Apr 21 07:54	12° 8 50'32	
evening set	8673 Jun 05 07:00	1° © 13'08			8674 May 01 19:38	0°Щ	
	8673 Jun 07 08:03	30° Ŗ Ⅱ		asc. node	8674 May 05 17:27	5° Ⅲ 52'27	
inferior conj	8673 Jun 11 14:21	26° Ⅲ 03'48	2°43'40	evening max el	8674 May 10 15:52	11° Ⅱ 56'49	18°21'55
minimum elong	8673 Jun 11 17:02	25° ∏ 56'49	2°42'52	retrograde	8674 May 17 01:46	15° Ⅱ 23'34	
min. Earth dist.	8673 Jun 14 12:32	23° I I02'22	0.62237 AU	evening set	8674 May 20 03:00	14° Ⅲ 32'23	
morning rise	8673 Jun 18 01:12	19° ∏ 57'55		inferior conj	8674 May 25 23:25	9° Ⅱ 05'10	3°11'57
desc. node	8673 Jun 22 10:24	17° ∏ 49'13		minimum elong	8674 May 26 00:57	9° Ⅱ 00'41	3°11'34
direct	8673 Jun 24 19:04	17° Ⅲ 31'42		min. Earth dist.	8674 May 28 07:25	6° Ⅲ 23'15	0.64277 AU
morning max el	8673 Jul 08 21:56	25° Ⅲ 33'26	27°55'14	morning rise	8674 May 31 21:52	2° Ⅱ 49'52	
	8673 Jul 13 00:03	0° ©		direct	8674 Jun 07 14:32	0° Ⅱ 07'49	
. ,	8673 Aug 02 06:21	0° N		desc. node	8674 Jun 09 07:25	0° Ⅱ 17'15	27020120
morning set	8673 Aug 11 18:39	18° Ω 05'30 24° Ω 25'01		morning max el	8674 Jun 21 07:30	8°∏07'27 0° ©	27°30'38
asc. node	8673 Aug 14 19:48 8673 Aug 17 10:27	0° m			8674 Jul 08 05:28 8674 Jul 25 13:20	0°€	
max. Earth dist.	8673 Aug 17 10:27 8673 Aug 17 06:23	-	1.32125 AU	morning set	8674 Jul 26 11:07	1° Ω 46'35	
max. Latur dist.	0075 Aug 17 00.25	27 6638 02	1.52125 AO	max. Earth dist.	8674 Jul 31 05:52	11° Ω 28'03	1.33063 AU
superior conj	8673 Aug 19 07:37	4° m 05'40	0°44'14	asc. node	8674 Aug 01 16:46	14°Ω30'53	1.55005 710
minimum elong	8673 Aug 19 07:37	3° m 55'35	0°43'46	use. Houe	007471 ug 01 10.40	14 0050 55	
evening rise	8673 Aug 26 03:26	18° m 59'41	0 15 10	superior conj	8674 Aug 03 12:56	18° Ω 25'28	0°18'31
e vennig rise	8673 Aug 31 11:28	0∘ ʊ		minimum elong	8674 Aug 03 12:02	18° Ω 20'39	0°18'11
desc. node	8673 Sep 18 09:10	27° £ 25'10			8674 Aug 08 21:58	0° m)	
evening max el	8673 Sep 19 23:09	29° ♀ 00'55	24°14'55	evening rise	8674 Aug 10 14:52	3° m/38'29	
evening man er	8673 Sep 21 00:35	0°M	2. 1.00	o ronning rise	8674 Aug 24 22:15	0∘ ⊽	
retrograde	8673 Oct 03 16:35	5°M53'47		evening max el	8674 Sep 01 10:53	ა — 9° ჲ 12'49	22°35'20
evening set	8673 Oct 08 16:04	4°M59'11		desc. node	8674 Sep 05 06:17	12° £ 25'40	22 35 20
min. Earth dist.	8673 Oct 14 09:57	2°M06'14	0.56277 AU	retrograde	8674 Sep 14 12:51	15° ≏ 44'24	
inferior conj	8673 Oct 14 09:56	0°M36'26		evening set	8674 Sep 18 00:04	15° ⊆ 17'59	
minimum elong	8673 Oct 16 21:19	0°M34'16		min. Earth dist.	8674 Sep 25 18:07		0.55050 AU
minimum ciong	8673 Oct 17 19:31	30° R Ω	5 55 5 1	inferior conj	8674 Sep 26 21:20	11° ⊆ 12'44	
morning rise	8673 Oct 25 04:39	26° £ 36'26		minimum elong	8674 Sep 26 15:07	11° ⊆ 21'35	
direct	8673 Oct 27 20:41	26° ⊆ 17'41		morning rise	8674 Oct 05 08:04	7° ≏ 24'51	5 10 11
direct	8673 Nov 05 16:13	0°M		direct	8674 Oct 08 12:49	7° ユ 2+31	
morning max el	8673 Nov 06 18:05	0°M58'00	19°44'45	morning max el	8674 Oct 19 23:50	12° £ 23'55	21°07'05
asc. node	8673 Nov 10 19:33	5°M33'46	17 7773	asc. node	8674 Oct 19 23:30 8674 Oct 28 16:31	23° £ 23'02	21 0/03
morning set	8673 Nov 24 09:56	29°M23'08		450. HOUC	8674 Nov 01 14:02	23 = 23 02 0° ™	
morning set	8673 Nov 24 09.36 8673 Nov 24 17:14	29 11623 08 0° x 7		morning set	8674 Nov 08 18:22	บาน 14° M L07'24	
	30/3 1107 27 1/.14	~ ^		morning sot	30/11/07/00 10:22	11 HUU/27	
superior conj	8673 Dec 02 06:14	15° ∡ 13'27	1°26'43	superior conj	8674 Nov 16 02:14	29°M26'08	1°37'32
minimum elong	8673 Dec 02 08:49	15° ₹ 1527	1°26'41	minimum elong	8674 Nov 16 03:35	29°M33'05	1°37'38
max. Earth dist.	8673 Dec 08 07:51	26° 🖈 53'56	1.37437 AU	viong	8674 Nov 16 08:48	0° ⊼	
Landin Gibt.						- **	
		0°중		max. Earth dist	8674 Nov 20 17:37	8° √ 49'18	1.35459 ATI
evening rise	8673 Dec 10 00:12 8673 Dec 12 01:29	0°る 3°る42'24		max. Earth dist.	8674 Nov 20 17:37 8674 Nov 24 19:10	8° х' 49'18 16° х' 39'00	1.35459 AU

desc. node	8674 Dec 02 05:02	29° ₹ 54'03		minimum elong	8675 Oct 31 05:49	13°M59'08	10/11/16
desc. node	8674 Dec 02 06:26	29 x 3403		max. Earth dist.	8675 Nov 03 10:41	20°M44'25	1.33829 AU
	8674 Dec 22 16:04	0°≈		evening rise	8675 Nov 08 03:05	0° ₹ 13'08	1.33629 AU
evening max el	8674 Dec 30 05:09		26°27'45	evening rise	8675 Nov 08 00:24	0° ⊼ 1308	
retrograde	8675 Jan 12 02:54	15°≈37'23	20 27 43	desc. node	8675 Nov 19 02:06	20°× 7 06'33	
evening set	8675 Jan 18 11:35	13°≈03'52		dese. Hode	8675 Nov 25 07:41	0°중	
min. Earth dist.	8675 Jan 22 14:42	8°≈48'53	0.66460 AU	evening max el	8675 Dec 12 18:08	21° පි 55'01	27°11'40
inferior conj	8675 Jan 24 08:46	6°≈42'04		retrograde	8675 Dec 26 04:17	29° ප 16'15	27 11 40
minimum elong	8675 Jan 24 08:55	6°≈41'36	0°05'36	evening set	8676 Jan 01 23:04	26° ප් 40'24	
transit middle	8675 Jan 24 08:55	6°≈41'36	0°05'36	min. Earth dist.	8676 Jan 05 20:37	22°る59'04	0.65050 AU
transit begin	8675 Jan 24 06:12	6°≈49'49	0 00 00	inferior conj	8676 Jan 08 02:21	20°る30'24	
transit end	8675 Jan 24 11:38	6°≈33'24		minimum elong	8676 Jan 08 04:25	20° පි 24'40	1°08'00
asc. node	8675 Jan 24 15:46	6°≈20'57		asc. node	8676 Jan 11 12:50	16°る59'29	1 00 00
morning rise	8675 Jan 30 07:07	0°≈58'29		morning rise	8676 Jan 14 11:12	14° ප 59'30	
direct	8675 Feb 02 07:10	0°≈07'52		direct	8676 Jan 17 02:26	14°る22'46	
morning max el	8675 Feb 08 20:41	3°≈39'52	18°29'04	morning max el	8676 Jan 23 12:38	17°る46'02	17°59'48
morning max ci	8675 Feb 27 04:53	0° ∺	10 2704	morning max ci	8676 Feb 01 13:55	0°≈	17 37 40
desc. node	8675 Feb 28 04:36	1° ¥ 34'03		morning set	8676 Feb 10 07:57	0 ∞ 14°≈18'08	
		3° ¥ 09'48		desc. node	8676 Feb 15 01:33	14 ≈18 08 22°≈05'37	
morning set	8675 Mar 01 04:45	3 X 0948		desc. node	8676 Feb 19 22:24	22 ≈ 03 37 0° ∺	
superior conj	8675 Mar 17 03:17	28° ¥ 15'12	1044'15		80/0 Feb 19 22.24	0 X	
minimum elong	8675 Mar 16 17:47	28 X 13 12 27° X 38'01	1°43'23	superior conj	8676 Feb 24 13:14	7°) €23'00	1005'14
max. Earth dist.	8675 Mar 17 09:45	28°\(\frac{1}{40}\)'32		minimum elong	8676 Feb 24 05:48	6° ¥ 53′27	
max. Earm dist.	8675 Mar 18 06:04	28 Λ 4032	1.43331 AU	max. Earth dist.	8676 Feb 28 05:09		1.45300 AU
avanina riaa		23° Y 03'44		max. Earth dist.		0° Υ	1.43300 AU
evening rise	8675 Apr 01 22:05	0° 8			8676 Mar 10 00:46	0 γ 2° Υ 34'08	
	8675 Apr 06 07:14	7° 8 46'13	0.0	evening rise	8676 Mar 11 16:44	23° Y 47'30	0.7
greatest brilliancy	8675 Apr 11 05:42	_	-0.8m	greatest brilliancy	8676 Mar 25 15:46		-0.7m
asc. node	8675 Apr 22 14:32	23° 8 54'25	10055124		8676 Mar 29 23:15	0° 8	10045100
evening max el	8675 Apr 24 02:20	25° 8 31'01	18°55'24	evening max el	8676 Apr 06 08:20	9° 8 09'06	19°45'20
retrograde	8675 Apr 30 20:36	29° 8 16'47		asc. node	8676 Apr 08 11:38	11° 8 06'28	
evening set	8675 May 04 05:22	28° 8 11'17		retrograde	8676 Apr 13 18:27	13° 8 24'39	
inferior conj	8675 May 09 18:30	_		evening set	8676 Apr 17 11:33	12° 8 04'14	
minimum elong	8675 May 09 18:44	22° 8 27'11	3°22'04	inferior conj	8676 Apr 22 20:30	6° 8 06'29	
min. Earth dist.	8675 May 11 11:14	20° 8 19'42	0.65966 AU	minimum elong	8676 Apr 22 19:34	6° 8 09'34	3°18'05
morning rise	8675 May 15 07:33	16° 8 09'18		min. Earth dist.	8676 Apr 23 22:27	4° 8 39'49	0.67233 AU
direct	8675 May 21 17:22	13° 8 23'06			8676 Apr 27 22:15	30° ₹Ƴ	
desc. node	8675 May 27 04:24	15° 8 00'38		morning rise	8676 Apr 28 03:17	29° Ƴ 48'24	
morning max el	8675 Jun 03 18:08	21° 8 07'59	26°35'35	direct	8676 May 04 02:22	27° Ƴ 08'58	
	8675 Jun 11 10:19	$\Pi^{\circ}0$			8676 May 11 04:35	$8^{\circ 0}$	
	8675 Jul 01 09:39	0°€		desc. node	8676 May 13 01:23	1° 8 28'38	
morning set	8675 Jul 09 16:15	14° © 52'35		morning max el	8676 May 16 03:52	4° 8 23'03	25°19'03
max. Earth dist.	8675 Jul 13 19:00	22° © 50'19	1.34488 AU		8676 Jun 04 18:50	Π $^{\circ}0$	
	8675 Jul 17 08:14	0 \circ Ω		morning set	8676 Jun 21 05:53	27° Ⅲ 12'17	
					8676 Jun 22 18:50	0 \circ \odot	
superior conj	8675 Jul 18 11:54	2° Ω 22'26	-0°10'47	max. Earth dist.	8676 Jun 24 21:24	3°\$54'02	1.36359 AU
minimum elong	8675 Jul 18 12:31	2° Ω 25'35	0°10'51				
behind sun begin	8675 Jul 18 08:10	2° Ω 03′10		superior conj	8676 Jul 01 01:42	15° © 49'34	-0°42'24
behind sun end	8675 Jul 18 16:51	2° Ω 48′02		minimum elong	8676 Jul 01 04:17	16°502'24	0°42'07
asc. node	8675 Jul 19 13:43	4° Ω 36′25		asc. node	8676 Jul 05 10:42	24° © 38'00	
evening rise	8675 Jul 26 00:22	18° Ω 07'43			8676 Jul 08 01:55	$0^{\circ}\Omega$	
	8675 Jul 31 22:23	0° m		evening rise	8676 Jul 09 05:44	2° Ω 21'21	
evening max el	8675 Aug 14 06:21	19° m 40'31	21°03'00		8676 Jul 25 19:49	O° Mp	
desc. node	8675 Aug 23 03:24	25° Mp 10'13		evening max el	8676 Jul 26 14:58	0° m ,49′09	19°47'54
retrograde	8675 Aug 26 01:32	25° m 31'22		retrograde	8676 Aug 05 17:17	5° Mp48'14	
evening set	8675 Aug 28 08:23	25° m 19'03		evening set	8676 Aug 07 13:55	5° m 38'50	
inferior conj	8675 Sep 06 13:51	21°m/22'18	-4°06'47	desc. node	8676 Aug 09 00:30	5° m 19'19	
minimum elong	8675 Sep 06 04:15	21° m/35'53		inferior conj	8676 Aug 16 11:59	1° m/37'18	-2°16'52
min. Earth dist.	8675 Sep 07 02:55	21° m 03'49		minimum elong	8676 Aug 16 05:45	1° Mp 46'54	
morning rise	8675 Sep 15 00:29	17° m) 27'21	-	min. Earth dist.	8676 Aug 18 14:16	0° m/20'02	0.55262 AU
direct	8675 Sep 18 20:46	16° Mp 55'36			8676 Aug 19 03:37	30°R Ω	
morning max el	8675 Oct 01 18:04	23° m) 04'40	22°46'58	morning rise	8676 Aug 24 19:36	27° Ω 15'39	
	8675 Oct 07 10:04 8675 Oct 07 20:58	ე∘ <u>ი</u>	000	direct	8676 Aug 29 10:45	26° Ω 28'20	
asc. node	8675 Oct 15 13:28	0 — 11° ≏ 55'27			8676 Sep 08 05:42	0° m)	
morning set	8675 Oct 24 05:21	28° £ 56'25		morning max el	8676 Sep 12 06:31	3°Mp19'34	24°33'03
morning sot	8675 Oct 24 03:21 8675 Oct 24 17:21	0°M		morning max or	8676 Sep 30 21:39	0∘ ʊ	2. 33.03
	50/5 OCL 27 1/.21	O IIO		asc. node	8676 Oct 01 10:26	0 == 1° ⊆ 00'37	
superior conj	8675 Oct 31 05:46	13° M .58'51	1°41'08	morning set	8676 Oct 07 17:07	1 2 200 3 / 13° 2 45'15	
superior conj	3073 300 31 03.40	ונטנטוו נו	1 71 00	morning set	30/0 001 0/ 1/.0/	15 — 7515	

superior conj	8676 Oct 14 14:09	28° ≏ 43'33	1°38'21	superior conj	8677 Sep 29 01:13	13° ≏ 33'33	1°29'47
minimum elong	8676 Oct 14 13:06	28° ≏ 37'47	1°38'23	minimum elong	8677 Sep 28 23:22	13° ≏ 23′21	1°29'39
	8676 Oct 15 04:10	0° M		max. Earth dist.	8677 Sep 29 19:26	15° ≏ 14'22	1.31897 AU
max. Earth dist.	8676 Oct 16 11:56	2°M52'30	1.32637 AU	evening rise	8677 Oct 06 00:01	28° ≏ 38′08	
evening rise	8676 Oct 21 21:42	14°ML15'34			8677 Oct 06 15:44	0° M	
	8676 Oct 30 02:55	0° ∡ ¹		desc. node	8677 Oct 22 20:15	29° M .14'44	
desc. node	8676 Nov 04 23:10	9° ⊀ 756'26			8677 Oct 23 08:11	0° ∡ ¹	
	8676 Nov 19 09:26	ರ°0		evening max el	8677 Nov 06 13:24	17° ∡ ¹40'53	27°15'24
evening max el	8676 Nov 24 05:42	5°₹05'51	27°29'25	retrograde	8677 Nov 20 10:02	24° ∡ 52'53	
retrograde	8676 Dec 07 23:03	12° る 24'19		evening set	8677 Nov 27 11:12	22° х 38′14	
evening set	8676 Dec 15 00:04	9° ප 54'14		min. Earth dist.	8677 Dec 01 04:02		0.61349 AU
min. Earth dist.	8676 Dec 18 17:35	6°₹43'36	0.63322 AU	inferior conj	8677 Dec 04 05:29	17°×710'00	
inferior conj	8676 Dec 21 10:18	4° る 02'21		minimum elong	8677 Dec 04 03:23	16° × 755'31	
•	8676 Dec 21 14:41	3°る51'25		•	8677 Dec 04 12:03 8677 Dec 11 15:12	10 x 33 31 12° x 13'42	3 2021
minimum elong		30°R <i>x</i> ⁷	2 13 37	morning rise direct		11° x 53'13	
	8676 Dec 26 00:28	-			8677 Dec 13 20:22		
morning rise	8676 Dec 28 07:15	28° 🖈 47'02		asc. node	8677 Dec 15 06:59	12° × ⁷ 02'12	17054110
asc. node	8676 Dec 28 09:55	28° ∡ ¹44'37		morning max el	8677 Dec 20 21:46		17°54'12
direct	8676 Dec 30 16:00	28° ∡ 20'14			8677 Dec 30 23:58	0° ろ	
	8677 Jan 04 05:15	0° ठ		morning set	8678 Jan 05 14:04	10° る 01'56	
morning max el	8677 Jan 06 06:04	1° る 44'16	17°47'53				
morning set	8677 Jan 22 13:15	26° る 42'15		superior conj	8678 Jan 16 02:56	28° る 52'22	0°19'55
	8677 Jan 24 10:55	0° ≈		minimum elong	8678 Jan 16 04:39	28° る 59'47	0°19'50
desc. node	8677 Jan 31 22:29	12° ≈ 45′06			8678 Jan 16 18:35	0° ≈	
				desc. node	8678 Jan 18 19:26	3° ≈ 29'06	
superior conj	8677 Feb 03 19:17	17° ≈ 30'45	-0°20'55	max. Earth dist.	8678 Jan 23 13:49	11° ≈ 26'44	1.42817 AU
minimum elong	8677 Feb 03 17:04	17° ≈ 21'37	0°20'26	evening rise	8678 Jan 29 23:04	21° ≈ 42'34	
max. Earth dist.	8677 Feb 09 23:11	27°≈30'27	1.44361 AU	•	8678 Feb 04 07:28	0° ₩	
	8677 Feb 11 12:47	0° ∀			8678 Feb 25 11:45	0° Y	
evening rise	8677 Feb 19 03:56	11°) 54'32		evening max el	8678 Mar 03 04:19	6° Ƴ 30'15	22°03'33
8 21	8677 Mar 03 04:10	$0^{\circ}\Upsilon$		retrograde	8678 Mar 12 14:21	12° Ƴ 04'55	
evening max el	8677 Mar 20 08:56	22° Υ 48'46	20°49'17	asc. node	8678 Mar 13 05:52	12° Υ '02'48	
asc. node	8677 Mar 26 08:45	27°Υ14'08	20 47 17	evening set	8678 Mar 17 03:31	10° Υ 13'52	
retrograde	8677 Mar 28 16:58	27° Υ 41'56		inferior conj	8678 Mar 22 11:13		2°36'58
evening set	8677 Apr 01 19:29	26°Υ06'12		minimum elong	8678 Mar 22 09:02	4° Υ 01'23	2°36'25
inferior conj		19° Υ 56'02	3°02'38	min. Earth dist.	8678 Mar 22 10:45	3°Υ55'25	0.68440 AU
3	8677 Apr 07 02:47	19° 7 36 02 20° Y 02'04	3°02'38 3°02'17	min. Earth dist.			0.08440 AU
minimum elong	8677 Apr 07 01:02	20°° Y 02′04 19° Y 13′51			8678 Mar 25 09:40	30° ₹ ₩	
min. Earth dist.	8677 Apr 07 15:00		0.68057 AU	morning rise	8678 Mar 27 14:24	27°){ 42'44	
morning rise	8677 Apr 12 06:21	13° Y 40'46		direct	8678 Apr 01 10:32	25°) (39′00	
direct	8677 Apr 17 16:27	11° Y 16'35			8678 Apr 09 16:22	0° Υ	
morning max el	8677 Apr 28 12:53	17° Y 45′29	23°51'11	morning max el	8678 Apr 10 23:57	1° Y 16'06	22°21'53
desc. node	8677 Apr 29 22:22	19° Ƴ 12'54		desc. node	8678 Apr 16 19:20	7° Y ′52'43	
	8677 May 08 18:11	$0^{\circ}S$			8678 May 02 15:42	0° 8	
	8677 May 28 20:29	$\Pi^{\circ}0$		morning set	8678 May 14 13:32	18° 8 36'23	
morning set	8677 Jun 02 22:41	8° Ⅲ 30'51		max. Earth dist.	8678 May 19 15:44	27° 8 02'37	1.40798 AU
max. Earth dist.	8677 Jun 06 17:48	15° Ⅱ 07'18	1.38543 AU		8678 May 21 09:29	Π $\circ 0$	
superior conj	8677 Jun 14 02:45	28° Ⅲ 37'18	-1°14'22	superior conj	8678 May 27 10:43	10° Ⅲ 35'47	-1°43'24
minimum elong	8677 Jun 14 07:24	28° Ⅲ 59'19	1°13'51	minimum elong	8678 May 27 16:37	11° Ⅱ 02'17	1°42'57
	8677 Jun 14 20:12	0° ©		evening rise	8678 Jun 06 16:32	29° Ⅲ 30′06	
asc. node	8677 Jun 22 07:43	14° © 31'03		-	8678 Jun 06 22:55	0°©	
evening rise	8677 Jun 23 04:13	16°911'29		asc. node	8678 Jun 09 04:44	4° © 11'22	
8 21	8677 Jun 30 12:09	$0^{\circ}\Omega$		evening max el	8678 Jun 22 18:21		18°19'34
evening max el	8677 Jul 09 12:06	12° Ω 42'05	18°53'24	retrograde	8678 Jun 30 02:06	28° © 53'12	
retrograde	8677 Jul 17 23:59	16° Ω 54'48	10 03 2 .	evening set	8678 Jul 02 08:04	28° © 33'14	
evening set	8677 Jul 19 23:07	16° Ω 42'10		inferior conj	8678 Jul 09 16:40		1°11'10
desc. node	8677 Jul 26 21:36	13° Ω 16'43		minimum elong	8678 Jul 09 18:57		1°10'11
			0022146	•			0.58704 AU
inferior conj	8677 Jul 28 03:28 8677 Jul 28 02:31	12° Ω 24'16		min. Earth dist.	8678 Jul 13 01:58		0.56704 AU
		12° Ω 25'57		desc. node	8678 Jul 13 18:43	20°533'52	
minimum elong		100 0 12147	0.56697 AU	morning rise	8678 Jul 17 02:33	18° © 22'18	
min. Earth dist.	8677 Jul 31 05:15	10° Ω 13'45	0.50077710	-	0.070 1 1 22 25 5		
min. Earth dist. morning rise	8677 Jul 31 05:15 8677 Aug 05 02:38	7° £ 26′07	0.500) / 110	direct	8678 Jul 23 06:51	16° 5 40'23	0.501.011.5
min. Earth dist. morning rise direct	8677 Jul 31 05:15 8677 Aug 05 02:38 8677 Aug 10 13:54	7° Ω 26'07 6° Ω 14'37		-	8678 Aug 06 16:07	16°5940'23 24°5925'41	27°19'15
min. Earth dist. morning rise	8677 Jul 31 05:15 8677 Aug 05 02:38 8677 Aug 10 13:54 8677 Aug 24 20:17	7° Ω 26'07 6° Ω 14'37 13° Ω 37'39		direct	8678 Aug 06 16:07 8678 Aug 11 18:10	16°540′23 24°525′41 0°Ω	27°19'15
min. Earth dist. morning rise direct morning max el	8677 Jul 31 05:15 8677 Aug 05 02:38 8677 Aug 10 13:54 8677 Aug 24 20:17 8677 Sep 06 18:53	7° N 26'07 6° N 14'37 13° N 37'39 0° M		direct morning max el	8678 Aug 06 16:07 8678 Aug 11 18:10 8678 Aug 31 00:12	16°\$40'23 24°\$25'41 0°\$ 0°\$\$	27°19'15
min. Earth dist. morning rise direct morning max el asc. node	8677 Jul 31 05:15 8677 Aug 05 02:38 8677 Aug 10 13:54 8677 Aug 24 20:17 8677 Sep 06 18:53 8677 Sep 18 07:24	7° N 26'07 6° N 14'37 13° N 37'39 0° M 20° M 29'53		direct morning max el asc. node	8678 Aug 06 16:07 8678 Aug 11 18:10 8678 Aug 31 00:12 8678 Sep 05 04:20	16°\$40'23 24°\$25'41 0°\$\Omega\$ 0°\$\text{m}\$ 10°\$\text{m}\$15'54	27°19'15
min. Earth dist. morning rise direct morning max el	8677 Jul 31 05:15 8677 Aug 05 02:38 8677 Aug 10 13:54 8677 Aug 24 20:17 8677 Sep 06 18:53	7° N 26'07 6° N 14'37 13° N 37'39 0° M		direct morning max el	8678 Aug 06 16:07 8678 Aug 11 18:10 8678 Aug 31 00:12 8678 Sep 05 04:20 8678 Sep 06 12:24	16°\$40'23 24°\$25'41 0°\$ 0°\$\$	27°19'15
min. Earth dist. morning rise direct morning max el asc. node	8677 Jul 31 05:15 8677 Aug 05 02:38 8677 Aug 10 13:54 8677 Aug 24 20:17 8677 Sep 06 18:53 8677 Sep 18 07:24	7° N 26'07 6° N 14'37 13° N 37'39 0° M 20° M 29'53		direct morning max el asc. node	8678 Aug 06 16:07 8678 Aug 11 18:10 8678 Aug 31 00:12 8678 Sep 05 04:20	16°\$40'23 24°\$25'41 0°\$\mathcal{L}\$ 0°\$\mathcal{m}\$ 10°\$\mathcal{m}\$15'54 13°\$\mathcal{m}\$03'20	27°19'15 1.31614 AU

superior conj	8678 Sep 13 13:00	28° m/22'12	1°15'55	max. Earth dist.	8679 Aug 27 14:29	10° mp 01'06	1.31796 AU
minimum elong	8678 Sep 13 10:47	28° m 09'51	1°15'36				
	8678 Sep 14 06:36	0∘ ⊽		superior conj	8679 Aug 28 23:47	13°Mp04'15	0°57'09
evening rise	8678 Sep 20 07:28	13° ≏ 12'44		minimum elong	8679 Aug 28 21:39	12°M 52'30	0°56'42
	8678 Sep 28 17:38	0°M		evening rise	8679 Sep 04 17:58	27° m 53′28	
desc. node	8678 Oct 09 17:22	17°M48'06			8679 Sep 05 17:42	0∘ ⊽	
evening max el	8678 Oct 19 14:12	29°M27'14	26°27'22		8679 Sep 22 12:51	0°M₊	
	8678 Oct 20 04:17	0°⊀		desc. node	8679 Sep 26 14:28	5°M18'47	
retrograde	8678 Nov 02 12:08	6° ∡ ³33'18		evening max el	8679 Oct 01 06:48	10° ™ 22'32	25°09'12
evening set	8678 Nov 09 03:58	4° ₹ 44'19		retrograde	8679 Oct 15 03:56	17° M 22'34	
min. Earth dist.	8678 Nov 13 03:36	2° √ 09'38	0.59257 AU	evening set	8679 Oct 20 21:39	16° ™ 07'34	
	8678 Nov 15 23:18	30°RM		min. Earth dist.	8679 Oct 25 18:26	13°M26'39	0.57260 AU
inferior conj	8678 Nov 16 08:17	29°M42'37	-4°34'45	inferior conj	8679 Oct 28 15:34	11° M 31'21	-5°23'16
minimum elong	8678 Nov 16 15:40	29°M28'24	4°32'46	minimum elong	8679 Oct 28 20:27	11°M23'10	5°22'32
morning rise	8678 Nov 24 05:46	25°M08'32		morning rise	8679 Nov 05 21:34	7° ™ 20'05	
direct	8678 Nov 26 11:09	24°M51'09		direct	8679 Nov 08 07:56	7°M02'52	
asc. node	8678 Dec 02 04:01	26°M52'42		morning max el	8679 Nov 17 09:43	11°M22'38	19°07'24
morning max el	8678 Dec 04 08:13	28°M42'42	18°20'06	asc. node	8679 Nov 19 01:01	13°M04'36	
	8678 Dec 05 13:55	0°⊀			8679 Nov 29 21:20	0°⊀	
morning set	8678 Dec 20 04:30	23° ₹ 58'45		morning set	8679 Dec 04 04:18	8° ≯ 20'34	
	8678 Dec 23 08:18	0°ಕ					
				superior conj	8679 Dec 12 10:31	24° ₹ 37'42	1°16'50
superior conj	8678 Dec 29 09:40	11° る 19'21		minimum elong	8679 Dec 12 13:37	24° ≯ 52'41	1°16'42
minimum elong	8678 Dec 29 12:56	11° る 34'17	0°52'38		8679 Dec 15 06:16	0° る	
desc. node	8679 Jan 05 16:24	24° る 13'24		max. Earth dist.	8679 Dec 19 05:08	7° る 16'12	1.38670 AU
max. Earth dist.	8679 Jan 05 23:22	24° る 43'15	1.40840 AU	evening rise	8679 Dec 23 00:07	13° る 57'37	
	8679 Jan 09 02:31	0° ≈		desc. node	8679 Dec 23 13:22	14° る 54'42	
evening rise	8679 Jan 10 12:37	2° ≈ 20'55			8680 Jan 01 18:29	0° ≈	
	8679 Jan 28 15:51	0° ∀			8680 Jan 23 14:52	0° ∀	
evening max el	8679 Feb 13 19:41	20°) 13′33	23°23'17	evening max el	8680 Jan 27 09:03	3° ¥ 59'53	24°42'15
retrograde	8679 Feb 24 09:12	26° ∺ 28′20		retrograde	8680 Feb 08 00:19	10°) 47′20	
asc. node	8679 Feb 28 03:00	25° ∺ 19'50		evening set	8680 Feb 13 13:32	8° ∺ 28'32	
evening set	8679 Mar 01 10:03	24°) €22'35		asc. node	8680 Feb 15 00:07	7° ∺ 05'59	
inferior conj	8679 Mar 06 19:52	17° ¥ 55'54	2°02'12	min. Earth dist.	8680 Feb 18 03:00	3°) 18'47	0.67938 AU
minimum elong	8679 Mar 06 17:40	18° ∺ 03′27	2°01'33	inferior conj	8680 Feb 19 02:52	1° ¥ 59'32	1°18'52
min. Earth dist.	8679 Mar 06 07:29	18°) 38′27	0.68390 AU	minimum elong	8680 Feb 19 01:09	2° ₩ 05'15	1°18'21
morning rise	8679 Mar 12 01:15	11° 米 50'19			8680 Feb 20 15:31	30°R ≈	
direct	8679 Mar 16 07:34	10° ∺ 08'58		morning rise	8680 Feb 24 12:58	26° ≈ 00'48	
morning max el	8679 Mar 24 16:28	14° ¥ 57′25	20°59'15	direct	8680 Feb 28 06:23	24° ≈ 41′09	
desc. node	8679 Apr 03 16:15	27°) 12'21		morning max el	8680 Mar 06 16:36	28° ≈ 50'31	19°48'45
	8679 Apr 05 16:26	0° Υ			8680 Mar 07 19:29	0° ∀	
morning set	8679 Apr 24 01:55	27° Y 30'47		greatest brilliancy	8680 Mar 19 13:50	15°) ₹35′23	-0.6m
	8679 Apr 25 15:55	0°8		desc. node	8680 Mar 20 13:08	17°) €00'57	
max. Earth dist.	8679 May 01 19:47	9° 8 52'03	1.42827 AU		8680 Mar 29 04:17	0° Υ	
				morning set	8680 Apr 01 23:41	5° Y 50′23	
superior conj	8679 May 08 20:57	21° 8 34'52		max. Earth dist.	8680 Apr 13 06:35	23° Y 28'45	1.44394 AU
minimum elong	8679 May 09 01:38	21° 8 54'44	2°04'37		8680 Apr 17 08:22	0° 8	
	8679 May 13 18:18	0°II			0.000 4 10 0.000	101 400104	2012105
evening rise	8679 May 20 14:30	12° Ⅲ 07'19		superior conj	8680 Apr 18 06:29	1° 8 29'24	
asc. node	8679 May 27 01:47	23° Ⅲ 34'03		minimum elong	8680 Apr 18 05:54	1° 8 27'01	2°12'12
	8679 May 30 23:21	0°©	10005125	evening rise	8680 May 01 17:17	23° 8 51'46	
evening max el	8679 Jun 06 05:56	8°512'23	18°05'37	1	8680 May 05 07:52	0° П	
retrograde	8679 Jun 12 21:07	11°536'08		asc. node	8680 May 12 22:51	12° ∏ 32'07	10010144
evening set	8679 Jun 15 10:37	11°505'42	2015122	evening max el	8680 May 19 19:23	21° II 31'22	18°10'44
inferior conj	8679 Jun 22 02:05	6°907'19	2°17'23	retrograde	8680 May 26 04:31	24° I I53'00	
minimum elong	8679 Jun 22 05:05	6°500'03	2°16'22	evening set	8680 May 29 01:28	24° I 109'53	2050100
min. Earth dist.	8679 Jun 25 06:37	3°503'32	0.60948 AU	inferior conj	8680 Jun 04 03:42	18° Ⅱ 53'00	
morning rise	8679 Jun 28 21:02	0°©10'13		minimum elong	8680 Jun 04 05:57	18° Ⅱ 46'50 15° Ⅱ 57'20	
daga == -1-	8679 Jun 29 03:20	30°R∏ 20°∏08/42		min. Earth dist.	8680 Jun 06 20:17		0.63136 AU
desc. node	8679 Jun 30 15:46	29° Ⅱ 08'42		morning rise	8680 Jun 10 08:55	12° П 42'00 10° П 08'26	
direct	8679 Jul 05 12:00	27° ∏ 58′08		desc. node	8680 Jun 16 12:49		
	8679 Jul 12 07:00	0°9	2705211.4	direct	8680 Jun 17 03:07	10° ∏ 07'18	27040156
morning max el	8679 Jul 19 18:53	5°957'21	27°53'14	morning max el	8680 Jul 01 02:36	18° Ⅱ 10′28	27°48'56
	8679 Aug 06 20:25	0°Ω 27°Ω22'04			8680 Jul 11 00:36	ია ი 0ა ⊙	
morning set	8679 Aug 21 16:24	27° Ω 22'04			8680 Jul 29 17:12	0°N	
1	8679 Aug 22 22:43	0° Mp		morning set	8680 Aug 04 13:47	11° Ω 18'32	
asc. node	8679 Aug 23 01:15	0° mp 13′20		asc. node	8680 Aug 08 22:11	20° Ω 17'01	

max. Earth dist.	8680 Aug 09 18:11	22° Ω 03'01	1.32458 AU	asc. node	8681 Jul 26 19:09	10° Ω 23'01	
superior conj	8680 Aug 12 07:40	27° Ω 33'32	0°33'49	superior conj	8681 Jul 27 10:35	11° Ω 44'13	0°06'29
minimum elong	8680 Aug 12 06:09	27° Ω 25′20	0°33'23	minimum elong	8681 Jul 27 10:15	11° Ω 42'30	0°06'14
	8680 Aug 13 10:37	O° m y		behind sun begin	8681 Jul 27 05:05	11° Ω 15'11	
evening rise	8680 Aug 19 05:34	12° m 33'56		behind sun end	8681 Jul 27 15:26	12° Ω 09'51	
	8680 Aug 27 23:42	0∘ ⊽		evening rise	8681 Aug 03 16:24	27° Ω 08'56	
evening max el	8680 Sep 11 18:12	20° ≏ 41'09	23°32'40	•	8681 Aug 05 01:04	o°mp	
desc. node	8680 Sep 12 11:35	21° ≏ 22'13			8681 Aug 23 10:25	0∘ <u>ଫ</u>	
retrograde	8680 Sep 25 07:16	27° Ω 27'26		evening max el	8681 Aug 24 08:20	0° £ 55'37	21°54'24
evening set	8680 Sep 29 15:08	26° £ 46'32		desc. node	8681 Aug 30 08:43	5° Ω 28'19	
min. Earth dist.	8680 Oct 06 04:15	23° Ω 40'49	0.55660 AU	retrograde	8681 Sep 05 22:49	7° Ω 11'18	
inferior conj	8680 Oct 08 02:42	22° £ 31'55		evening set	8681 Sep 08 20:05	6° £ 52'40	
minimum elong	8680 Oct 08 00:50	22° ₽ 34'42		inferior conj	8681 Sep 17 22:43	2° £ 52'57	1051116
morning rise	8680 Oct 16 12:35	18° Ω 38'31	3 33 20	minimum elong	8681 Sep 17 22:43	3° Ω 04'56	
direct	8680 Oct 10 12:33 8680 Oct 19 09:23	18° £ 18'18		min. Earth dist.	8681 Sep 17 14:09 8681 Sep 17 12:23	3° ⊆ 04'30	
	8680 Oct 19 09.23 8680 Oct 29 23:00	23° £ 16'14	20°17'14	IIIII. Eartii tist.	•	30°R, M)	0.54777 AU
morning max el			20 1/14		8681 Sep 23 14:49		
asc. node	8680 Nov 04 21:58	0°M22'07		morning rise	8681 Sep 26 09:32	29° Mp 04'30	
	8680 Nov 04 15:45	0°M		direct	8681 Sep 29 20:51	28° Tp 37'58	
morning set	8680 Nov 17 10:17	22°M58'14			8681 Oct 05 18:46	0∘ ⊽	
	8680 Nov 20 20:13	0°⊀		morning max el	8681 Oct 11 23:11	4° Ω 20'23	21°47′58
				asc. node	8681 Oct 22 18:55	18° ≏ 30'47	
superior conj	8680 Nov 25 00:39	8° ∡ ³33'24	1°32'14		8681 Oct 29 01:07	0° M	
minimum elong	8680 Nov 25 02:44	8° ≯ 43'56	1°32'15	morning set	8681 Nov 01 20:00	7° ጤ 44'40	
max. Earth dist.	8680 Nov 30 11:47	19° ∡ 18'15	1.36559 AU				
evening rise	8680 Dec 04 07:49	26° ₹ 27'45		superior conj	8681 Nov 09 00:10	22°M54'56	1°39'53
	8680 Dec 06 06:57	0°ප		minimum elong	8681 Nov 09 00:57	22°M59'04	1°40'01
desc. node	8680 Dec 09 10:23	5° る 29'00			8681 Nov 12 10:23	0° ∡ 7	
	8680 Dec 25 05:40	0° ≈		max. Earth dist.	8681 Nov 13 00:29	1° ∡ 11'31	1.34716 AU
evening max el	8681 Jan 08 22:14	17° ≈ 47'55	25°53'25	evening rise	8681 Nov 17 07:59	9° ∡ ′41'11	
retrograde	8681 Jan 21 10:39	24° ≈ 56'40		desc. node	8681 Nov 26 07:25	25° ∡ 51′09	
evening set	8681 Jan 27 12:21	22° ≈ 27'37			8681 Nov 28 19:27	8°0	
asc. node	8681 Jan 31 21:12	17° ≈ 45'53			8681 Dec 20 23:24	0° ≈	
min. Earth dist.	8681 Jan 31 19:06	17° ≈ 52′26	0.67102 AU	evening max el	8681 Dec 22 11:41	1° ≈ 30′09	26°49'21
inferior conj	8681 Feb 02 06:23	16°≈01'31	0°27'23	retrograde	8682 Jan 04 15:19	8° ≈ 48'46	
minimum elong	8681 Feb 02 05:41	16° ≈ 03'43	0°27'16	evening set	8682 Jan 11 04:34	6°≈13'47	
morning rise	8681 Feb 07 23:35	10°≈11'31		min. Earth dist.	8682 Jan 15 05:20	2°≈13'09	0.65901 AU
direct	8681 Feb 11 05:31	9° ≈ 11'10		inferior conj	8682 Jan 17 04:17	29° る 56'23	-0°31'49
morning max el	8681 Feb 18 00:22	12°≈53'25	18°53'26	minimum elong	8682 Jan 17 05:10	29° る 53'46	0°31'14
	8681 Mar 02 17:58	0°) €			8682 Jan 17 03:02	30°Rる	
desc. node	8681 Mar 07 10:02	7°) 10′58		asc. node	8682 Jan 18 18:17	28° る 07'55	
morning set	8681 Mar 12 07:00	14°) (45'47		morning rise	8682 Jan 23 06:49	24° る 17'38	
morning sec	8681 Mar 22 01:23	0°Υ		direct	8682 Jan 26 02:58	23° る 33'14	
max. Earth dist.	8681 Mar 26 23:04	7° Υ 40'29	1.45329 AU	morning max el	8682 Feb 01 14:03	27°る00'09	18°14'33
max. Darm dist.	0001 Mai 20 25.01	, 1 1025	1.13327110	morning max or	8682 Feb 04 06:21	0° ≈	10 1133
superior conj	8681 Mar 28 18:55	10° Ƴ 32'42	-2°00'12	morning set	8682 Feb 20 17:12	25°≈04'03	
minimum elong	8681 Mar 28 11:25	10° γ '03'11	1°59'46	desc. node	8682 Feb 22 06:57	27°≈35'59	
minimum ciong	8681 Apr 10 00:22	0°8	1 37 40	dese. Hode	8682 Feb 23 18:47	0° ∺	
evening rise	8681 Apr 12 21:05	4° 8 37'38			0002100 23 10.47	0 /	
evening rise	8681 Apr 29 02:36	4 O 37 38		superior conj	8682 Mar 08 00:05	19° ¥ 23'09	1020102
asa nada	-	0° П 57'42				18°) (2309	
asc. node	8681 Apr 29 19:57	5° П 02'19	10024107	minimum elong	8682 Mar 07 14:41		
evening max el	8681 May 03 07:44		18°34'06	max. Earth dist.	8682 Mar 09 18:50	22° Υ 10'42 0° Υ	1.45532 AU
retrograde	8681 May 09 20:08	8°П35'23			8682 Mar 14 18:57		
evening set	8681 May 13 00:33	7° Ⅱ 38'11	2010112	evening rise	8682 Mar 24 02:02	14° Ƴ 30'04	
inferior conj	8681 May 18 17:29	2° ∏ 04'09	3°18'13		8682 Apr 03 01:25	0°8	
minimum elong	8681 May 18 18:28	2° Ⅱ 01'11	3°17'58	greatest brilliancy	8682 Apr 04 12:56	2° 8 15'40	-0.7m
	8681 May 20 10:40	30° ₹ 8		evening max el	8682 Apr 16 16:35	18° 8 38'57	19°14'43
min. Earth dist.	8681 May 20 19:05	29° 8 35'07	0.65051 AU	asc. node	8682 Apr 16 17:03	18° 8 40'08	
morning rise	8681 May 24 11:34	25° 8 47'04		retrograde	8682 Apr 23 16:32	22° 8 35'44	
direct	8681 May 31 02:06	23° 8 01'31		evening set	8682 Apr 27 04:51	21° 8 23'45	
desc. node	8681 Jun 03 09:49	23° 8 37'39		inferior conj	8682 May 02 15:52	15° 8 34'01	3°22'05
	8681 Jun 12 13:55	Π °0		minimum elong	8682 May 02 15:35	15° 8 34'57	3°21'56
morning max el	8681 Jun 13 12:41	0°Ⅲ56′21	27°10'18	min. Earth dist.	8682 May 04 02:09	13° 8 43'06	0.66569 AU
	8681 Jul 05 02:25	0 \circ \odot		morning rise	8682 May 08 01:54	9° 8 15'32	
morning set	8681 Jul 19 01:49	24°5945'19		direct	8682 May 14 07:35	6° 8 31'11	
	8681 Jul 21 17:46	$0^{\circ}\Omega$		desc. node	8682 May 21 06:49	9° 8 09'17	
max. Earth dist.	8681 Jul 23 13:15	3° Ω 39'34	1.33613 AU	morning max el	8682 May 26 23:00	14° 8 03'56	26°05'00

	8682 Jun 08 21:46	0° I I			9692 May 11 10:12	0° ႘	
	8682 Jun 27 20:48	0°9			8683 May 11 19:13 8683 Jun 02 13:30	0°II	
morning set	8682 Jul 02 00:56	0 € 7°©32'51		morning set	8683 Jun 14 06:25	19° Ⅱ 28'25	
max. Earth dist.	8682 Jul 05 21:49		1.35240 AU	max. Earth dist.	8683 Jun 17 21:16	25° I I58'01	1.37265 AU
max. Latin dist.	0002 Jul 03 21.47	14 33237	1.55240 AO	max. Lattii dist.	8683 Jun 20 01:40	0° 9	1.57205 AC
superior conj	8682 Jul 11 06:03	25° © 29'36	-0°24'00		8083 Juli 20 01.40	0 3	
minimum elong	8682 Jul 11 07:28	25°936'45		superior conj	8683 Jun 24 14:55	8° © 40'58	-0°56'05
minimum ciong	8682 Jul 13 10:49	0°Ω	0 23 33	minimum elong	8683 Jun 24 18:24	8° 9 57'57	0°55'40
asc. node	8682 Jul 13 16:09	0° Ω 27'32		asc. node	8683 Jun 30 13:10	20°526'03	0 22 10
evening rise	8682 Jul 19 00:27	11° Ω 32'37		evening rise	8683 Jul 03 03:18	25° © 37'30	
	8682 Jul 28 16:46	0° m		0.00000	8683 Jul 05 08:12	0°N	
evening max el	8682 Aug 06 09:10	11°m 39'06	20°28'35	evening max el	8683 Jul 19 23:17	23° Ω 06′22	19°22'05
retrograde	8682 Aug 17 11:07	17° m 08'13		retrograde	8683 Jul 29 08:35	27° Ω 44'57	
desc. node	8682 Aug 17 05:50	17° Mp 08'06		evening set	8683 Jul 31 05:07	27° Ω 34'50	
evening set	8682 Aug 19 11:45	16° m 58'00		desc. node	8683 Aug 04 02:58	26° Ω 14'33	
inferior conj	8682 Aug 28 15:50	13° m 00'43	-3°22'50	inferior conj	8683 Aug 08 20:20	23° Ω 27'00	-1°27'06
minimum elong	8682 Aug 28 07:01	13° m 13'29	3°19'59	minimum elong	8683 Aug 08 16:26	23° Ω 33′22	1°25'44
min. Earth dist.	8682 Aug 29 21:43	12° m 17'24	0.54808 AU	min. Earth dist.	8683 Aug 11 10:26	21° Ω 45′56	0.55776 AU
morning rise	8682 Sep 06 01:47	8° m 56'57		morning rise	8683 Aug 17 01:02	18° Ω 50′06	
direct	8682 Sep 10 05:52	8° m 19'38		direct	8683 Aug 22 00:29	17° Ω 53'50	
morning max el	8682 Sep 23 14:01	14°Mp46'51	23°32'21	morning max el	8683 Sep 05 02:27	25° Ω 00′02	25°16'20
	8682 Oct 05 10:17	0∘ ত			8683 Sep 09 18:07	0° m	
asc. node	8682 Oct 09 15:53	7° ≏ 18'37		asc. node	8683 Sep 26 12:51	26° Mp 34'54	
morning set	8682 Oct 17 07:34	22° ≙ 34'46			8683 Sep 28 06:07	0∘ ⊽	
	8682 Oct 20 18:21	0° M		morning set	8683 Oct 01 19:11	7° ≏ 22'18	
superior conj	8682 Oct 24 06:04	7°M33'53	1°40'41	superior conj	8683 Oct 08 15:50	22° £ 21'36	1°35'23
minimum elong	8682 Oct 24 05:37	7°M31'28	1°40'48	minimum elong	8683 Oct 08 14:24		1°35'22
max. Earth dist.	8682 Oct 26 21:30	13°M13'17	1.33266 AU	max. Earth dist.	8683 Oct 10 01:42	25° ≏ 27'24	1.32260 AU
evening rise	8682 Oct 31 20:54	23°M28'39			8683 Oct 12 03:55	0°M	
	8682 Nov 04 05:08	0° ∡		evening rise	8683 Oct 15 19:06	7°M40'11	
desc. node	8682 Nov 13 04:30	15° ₹ 55'25			8683 Oct 27 16:06	0° ∡ 7	
	8682 Nov 22 10:50	0°る		desc. node	8683 Oct 31 01:36	5° ₹ 33'11	
evening max el	8682 Dec 05 00:21	14°₹55'50	27°22'47	evening max el	8683 Nov 17 10:19	27° ₹ 51'46	27°27'29
retrograde	8682 Dec 18 13:44	22°る15'59			8683 Nov 19 20:10	0°る	
evening set	8682 Dec 25 11:57	19° る 41'24	0.64256 ATT	retrograde	8683 Dec 01 05:21	5° る 08'19	
min. Earth dist.	8682 Dec 29 07:33	16° පි 13'53 13° පි 38'42	0.64356 AU	evening set	8683 Dec 08 07:30	2°る43'08	
inferior conj	8682 Dec 31 18:07	13°る38'42 13°る30'41		i. Dandla diad	8683 Dec 11 16:59	30°₹ ҂ 29° ҂ 44'10	0.62507.411
minimum elong asc. node	8682 Dec 31 21:08 8683 Jan 05 15:20	9° ろ 10'00	1 30 13	min. Earth dist. inferior conj	8683 Dec 11 23:57	29° x '44 10 27° x '00'43	
morning rise	8683 Jan 07 07:58	9 31000 8° 3 14'07		minimum elong	8683 Dec 14 21:00 8683 Dec 15 02:22	27 x ·00 43 26° x ·47'58	
direct	8683 Jan 09 20:15	7°る41'58		morning rise	8683 Dec 21 23:25	20 × 47 38 21° × 53'29	2 43 47
morning max el	8683 Jan 16 07:02	7 34138 11° 3 04'04	17°52'39	asc. node	8683 Dec 23 12:23	21° 🖈 33 29 21° 🖈 32'23	
morning max ci	8683 Jan 29 07:33	0°≈	17 3237	direct	8683 Dec 24 06:13	21° 🗷 29'50	
morning set	8683 Feb 02 08:16	6°≈47'13		morning max el	8683 Dec 31 00:10	24° х 56'37	17°48'21
desc. node	8683 Feb 09 03:53	18°≈11'32		monning man vi	8684 Jan 04 04:18	0°궁	1, 1021
dese. node	0005100 07 05.55	10 /0/11/02		morning set	8684 Jan 15 22:34	19° る 36'43	
superior conj	8683 Feb 15 17:12	28° ≈ 52'54	-0°46'29	. 8	8684 Jan 21 20:17	0° ≈	
minimum elong	8683 Feb 15 11:55	28° ≈ 31'41	0°45'38				
	8683 Feb 16 09:54	0° ∀		superior conj	8684 Jan 27 10:04	9° ≈ 32'08	-0°02'51
max. Earth dist.	8683 Feb 20 14:27	6°) 40'11	1.44988 AU	minimum elong	8684 Jan 27 09:48	9° ≈ 31'03	0°02'38
evening rise	8683 Mar 03 15:46	23° ℋ 52′02		behind sun begin	8684 Jan 27 00:55	8° ≈ 53'41	
	8683 Mar 07 16:04	$0^{\circ}\mathbf{\Upsilon}$		behind sun end	8684 Jan 27 18:41	10° ≈ 08′21	
greatest brilliancy	8683 Mar 18 11:52	16° Ƴ 12'05	-0.6m	desc. node	8684 Jan 27 00:50	8° ≈ 53′20	
	8683 Mar 28 17:52	0°8		max. Earth dist.	8684 Feb 03 06:56	20° ≈ 50'52	1.43763 AU
evening max el	8683 Mar 30 20:19	2° 8 17'43	20°10'53		8684 Feb 09 01:14	0° ∀	
asc. node	8683 Apr 03 14:10	5° 8 26'50		evening rise	8684 Feb 11 04:28	3° ¥ 19′28	
retrograde	8683 Apr 07 15:02	6° 8 48'33			8684 Feb 29 03:19	$0^{\circ}\Upsilon$	
evening set	8683 Apr 11 12:03	5° 8 21'27		evening max el	8684 Mar 12 18:29	15° Ƴ 57'48	21°19'50
	8683 Apr 16 07:33	30° ₹Ƴ		asc. node	8684 Mar 20 11:16	21° Y 03'02	
inferior conj	8683 Apr 16 19:59	29° Ƴ 17'52	3°12'57	retrograde	8684 Mar 21 13:25	21° Y 09'04	
minimum elong	8683 Apr 16 18:40	29° Y 22′20	3°12'42	evening set	8684 Mar 25 20:14	19° Y 26′50	
min. Earth dist.	8683 Apr 17 15:52	28° Y 10′20	0.67643 AU	inferior conj	8684 Mar 31 03:27	13° Y 11′52	2°52'57
morning rise	8683 Apr 22 01:04	23° Y ′00'48		minimum elong	8684 Mar 31 01:28	13° Y 18'46	2°52'29
direct	8683 Apr 27 18:42	20° Y 27′20		min. Earth dist.	8684 Mar 31 10:09	12° Y 48'34	0.68267 AU
desc. node	8683 May 08 03:48	26° Y 12'53	24042:27	morning rise	8684 Apr 05 06:30	6° Y 58′01	
morning max el	8683 May 09 08:30	27° Y 23′27	24~42'27	direct	8684 Apr 10 10:36	4° Ƴ 42'12	

	0604 4 20 10.07	1000050102	22012152	3:4	9695 Mar 25 06:10	100 100 100	
morning max el	8684 Apr 20 18:07	10°Υ50'03	23°12'52	direct	8685 Mar 25 06:10	19° ∺ 08′20	01045104
desc. node	8684 Apr 24 00:45	14° Υ 23'21		morning max el	8685 Apr 03 06:57	24°) €24'17	21°45'31
	8684 May 05 23:00	0° 8			8685 Apr 08 06:06	0° Υ	
	8684 May 25 08:27	$0^{\circ}\Pi$		desc. node	8685 Apr 10 21:40	3° Y 21'35	
morning set	8684 May 25 12:51	0° Ⅱ 18′23			8685 Apr 29 08:54	0°8	
max. Earth dist.	8684 May 29 17:18	7° Ⅱ 25'55	1.39507 AU	morning set	8685 May 05 15:56	9° 8 51'53	
				max. Earth dist.	8685 May 11 17:00	19° 8 42'16	1.41703 AU
superior conj	8684 Jun 06 09:18	21° Ⅱ 09'37			8685 May 17 18:48	Π °0	
minimum elong	8684 Jun 06 14:41	21° Ⅱ 34'27	1°26'45				
	8684 Jun 11 02:12	0		superior conj	8685 May 19 08:35	2° Ⅱ 44'20	-1°53'43
evening rise	8684 Jun 15 22:00	9° © 16'03		minimum elong	8685 May 19 14:24	3° Ⅱ 09'47	1°53'24
asc. node	8684 Jun 16 10:12	10° © 14'45		evening rise	8685 May 30 04:44	22° Ⅱ 18'15	
	8684 Jun 27 16:36	$0 {\circ} \Omega$		asc. node	8685 Jun 03 07:14	29° Ⅱ 48'22	
evening max el	8684 Jul 02 00:48	5° Ω 17'06	18°36'30		8685 Jun 03 09:49	0 \circ \odot	
retrograde	8684 Jul 09 23:29	9° Ω 14'12		evening max el	8685 Jun 15 09:52	18° © 01'54	18°11'16
evening set	8684 Jul 12 01:07	8° Ω 59'02		retrograde	8685 Jun 22 09:01	21° © 32'55	
inferior conj	8684 Jul 19 21:02	4° Ω 32'53	0°20'17	evening set	8685 Jun 24 18:18	21° 5 08'46	
minimum elong	8684 Jul 19 21:47	4° Ω 31′26	0°19'49	inferior conj	8685 Jul 01 19:13	16° 5 21'56	1°42'35
desc. node	8684 Jul 21 00:04	3° Ω 41′03		minimum elong	8685 Jul 01 22:02	16° © 15'38	1°41'29
min. Earth dist.	8684 Jul 23 03:59	2° Ω 03′26	0.57500 AU	min. Earth dist.	8685 Jul 05 03:49	13° © 23'56	0.59657 AU
	8684 Jul 26 07:24	30°Rூ		desc. node	8685 Jul 07 21:08	11°9518'37	
morning rise	8684 Jul 27 14:55	29° © 18'53		morning rise	8685 Jul 08 22:47	10° © 37'51	
direct	8684 Aug 02 10:01	27° © 54'38		direct	8685 Jul 15 08:47	8° © 42'19	
	8684 Aug 09 16:08	0°N		morning max el	8685 Jul 29 17:15	16°934'25	27°38'15
morning max el	8684 Aug 16 18:36	5° Ω 29'10	26°42'49		8685 Aug 09 18:20	0°N	_, _, _,
morning man or	8684 Sep 03 18:59	0°m/	20 .2 .>		8685 Aug 27 07:33	0° m)	
asc. node	8684 Sep 12 09:49	16° Mp 12'04		morning set	8685 Aug 30 11:56	6° Mp 30'43	
morning set	8684 Sep 15 05:12	22° m 02'39		asc. node	8685 Aug 30 06:45	6° M) 03'39	
morning set	8684 Sep 18 21:24	0° ت		max. Earth dist.	8685 Sep 05 20:29	20° m) 16'00	1.31636 AU
	0004 5ср 10 21.24	o –		max. Earth dist.	0003 Sep 03 20.27	20 11/1000	1.51030 AC
superior conj	8684 Sep 22 03:25	7° £ 11'52	1°24'32	superior conj	8685 Sep 06 15:01	21° m/58'40	1°08'33
minimum elong	8684 Sep 22 01:22	7° £ 00'27	1°24'19	minimum elong	8685 Sep 06 12:46	21° Mp 46'13	1°08'09
max. Earth dist.	8684 Sep 22 10:31	7° £ 51'15	1.31717 AU	8	8685 Sep 10 05:58	0∘ <u>⊽</u>	
evening rise	8684 Sep 28 23:51	22° ഫ 08'31	-10-17-17-11-0	evening rise	8685 Sep 13 08:51	6° ₽ 46'49	
e vennig rise	8684 Oct 02 19:37	0°M		evening rise	8685 Sep 25 09:36	0°M	
desc. node	8684 Oct 16 22:41	24°M34'02		desc. node	8685 Oct 03 19:48	12°ML43'28	
dese. Hode	8684 Oct 20 19:26	0°×7		evening max el	8685 Oct 11 12:48	21°M31'57	25°57'24
evening max el	8684 Oct 29 15:14	10° ∡ 706'35	26°59'04	retrograde	8685 Oct 25 10:58	28°M35'13	23 31 24
retrograde	8684 Nov 12 13:05	10 x 100 33	20 39 04	evening set	8685 Oct 31 18:53	27°ML00'24	
evening set	8684 Nov 19 11:24	15° × 11'43		min. Earth dist.	8685 Nov 05 01:36		0.58376 AU
•			0.60457 AU			22°M09'56	
min. Earth dist.	8684 Nov 23 05:49	12° 🗷 31'56		inferior conj	8685 Nov 08 04:27		
inferior conj	8684 Nov 26 09:35	9° 🖈 54'16		minimum elong	8685 Nov 08 11:18	21°M57'30	4°57'01
minimum elong	8684 Nov 26 16:46	9° х 39'16	3°55'39	morning rise	8685 Nov 16 06:01	17°M45'18	
morning rise	8684 Dec 04 00:35	5° ₹ 07'11		direct	8685 Nov 18 12:51	17°M28'20	
direct	8684 Dec 06 05:07	4° ₹ 48'32		asc. node	8685 Nov 26 06:26	20°M56'50	
asc. node	8684 Dec 09 09:26	5° 🗷 29'44		morning max el	8685 Nov 26 21:07	21°M31'02	18°37'29
morning max el	8684 Dec 13 14:05	8° ∡ 28'52	18°02'43		8685 Dec 03 10:38	0° ⊼	
	8684 Dec 27 11:59	0°ਰ ••ਤ		morning set	8685 Dec 13 00:39	17° ∡ ¹22'52	
morning set	8684 Dec 29 05:44	3° る 13'27			8685 Dec 19 13:23	0°ಕ	
superior conj	8685 Jan 08 03:59	21° る 22'36	0°34'58	superior conj	8685 Dec 21 19:03	4°る13'24	1°04'08
	8685 Jan 08 06:37	21 3 22 36 21° 3 34'18	0°34'47		8685 Dec 21 19.03	4 313 24 4° 3 29'05	1°03'54
minimum elong			0 3447	minimum elong			
desc. node	8685 Jan 12 21:46	29° る 37'43		max. Earth dist.	8685 Dec 29 02:35	17° る 27'43	1.39926 AU
en al en a	8685 Jan 13 03:00	0°≈	1 42000 177	desc. node	8685 Dec 30 18:44	20°る21'33	
max. Earth dist.	8685 Jan 15 18:49	4°≈29'02	1.42008 AU	evening rise	8686 Jan 02 05:25	24° る 30'38	
evening rise	8685 Jan 21 06:28	13°≈26'33			8686 Jan 05 13:13	0° ≈	
	8685 Feb 01 00:11	0° ∀			8686 Jan 25 19:22	0° ∀	
evening max el	8685 Feb 23 11:54	29°) 39'48	22°37'17	evening max el	8686 Feb 06 02:22	13° ¥ 25′29	23°57'28
	8685 Feb 23 20:00	0° Υ		retrograde	8686 Feb 17 03:07	19°) 54'44	
retrograde	8685 Mar 05 09:53	5° Y 32'25		evening set	8686 Feb 22 09:11	17°) 43′22	
asc. node	8685 Mar 07 08:23	5° Ƴ 13'36		asc. node	8686 Feb 22 05:29	17° ∺ 51'06	
evening set	8685 Mar 10 03:47	3° Y 35'14		min. Earth dist.	8686 Feb 27 03:08	12° ¥ 13'51	0.68248 AU
	8685 Mar 13 10:44	30° ₹ ₩		inferior conj	8686 Feb 27 20:21	11° 米 15′24	1°44'52
inferior conj	8685 Mar 15 12:11	27° ∺ 11'56		minimum elong	8686 Feb 27 18:18	11° ∺ 22'23	1°44'14
minimum elong	8685 Mar 15 09:56	27°) 19'44	2°22'43	morning rise	8686 Mar 05 03:26	5° ¥ 12'30	
min. Earth dist.	8685 Mar 15 06:39	27°) €31'09	0.68462 AU	direct	8686 Mar 09 04:14	3°) 40′21	
morning rise	8685 Mar 20 15:57	21°) €02'49		morning max el	8686 Mar 17 02:26	8° ¥ 10′22	20°27'33

		>/					
desc. node	8686 Mar 28 18:33	22°) 54'47		morning rise	8687 Feb 17 14:57	19° ≈ 23'27	
	8686 Apr 02 15:53	0° Υ		direct	8687 Feb 21 03:21	18° ≈ 12'21	
morning set	8686 Apr 14 19:36	18° Y ′23'56		morning max el	8687 Feb 28 05:58	22°≈08′15	19°23'19
	8686 Apr 22 04:45	0° 8			8687 Mar 06 18:38	0° ∀	
max. Earth dist.	8686 Apr 24 00:15	2° 8 54'16	1.43569 AU	greatest brilliancy	8687 Mar 13 02:43	9° ∺ 05'35	-0.7m
				desc. node	8687 Mar 15 15:27	12° ∺ 53'11	
superior conj	8686 Apr 30 08:26	13° 8 16'09		morning set	8687 Mar 24 18:26	26° ¥ 50′30	
minimum elong	8686 Apr 30 11:23	13° 8 28'22	2°09'58		8687 Mar 26 19:30	0° Y	
	8686 May 10 04:16	Π $^{\circ}0$		max. Earth dist.	8687 Apr 06 14:15	16° Ƴ 49'46	1.44877 AU
evening rise	8686 May 12 19:03	4° Ⅲ 34'04					
asc. node	8686 May 21 04:16	19° Ⅲ 01′26		superior conj	8687 Apr 10 07:55	22° Y 45'23	
	8686 May 28 19:45	0		minimum elong	8687 Apr 10 04:13	22° Ƴ 30'37	2°09'32
evening max el	8686 May 29 22:40	1° © 10'59	18°05'29		8687 Apr 14 20:08	0 \circ 8	
retrograde	8686 Jun 05 09:53	4° © 31'51		evening rise	8687 Apr 24 12:24	15° 8 54'15	
evening set	8686 Jun 08 02:41	3° © 56'04			8687 May 03 00:43	Π $^{\circ}0$	
	8686 Jun 13 07:56	30° Ŗ Ⅱ		asc. node	8687 May 08 01:21	7° Ⅱ 46'58	
inferior conj	8686 Jun 14 12:00	28° Ⅱ 49'25	2°37'28	evening max el	8687 May 13 11:56	14° Ⅲ 35'52	18°18'28
minimum elong	8686 Jun 14 14:48	28° Ⅱ 42'15	2°36'37	retrograde	8687 May 19 21:25	18° Ⅱ 01'01	
min. Earth dist.	8686 Jun 17 11:57	25° Ⅱ 46'47	0.61908 AU	evening set	8687 May 22 21:30	17° Ⅱ 12'00	
morning rise	8686 Jun 21 00:54	22° Ⅱ 45'31		inferior conj	8687 May 28 19:17	11° Ⅱ 47'21	3°08'53
desc. node	8686 Jun 24 18:11	20° Ⅱ 50′50		minimum elong	8687 May 28 21:02	11° Ⅱ 42'22	3°08'28
direct	8686 Jun 27 18:13	20° Ⅲ 22'49		min. Earth dist.	8687 May 31 05:33	9° Ⅱ 01'22	0.63987 AU
morning max el	8686 Jul 11 22:16	28° Ⅲ 23'55	27°55'57	morning rise	8687 Jun 03 19:24	5° Ⅲ 32'52	
	8686 Jul 13 11:28	0 \circ \odot		direct	8687 Jun 10 12:35	2° ∏ 52'24	
	8686 Aug 03 14:27	$0^{\circ}\Omega$		desc. node	8687 Jun 11 15:12	2° Ⅱ 56'24	
morning set	8686 Aug 14 13:24	20° Ω 40'47		morning max el	8687 Jun 24 07:34	10° Ⅲ 53'35	27°36'27
asc. node	8686 Aug 17 03:41	26° Ω 04'22			8687 Jul 09 08:57	0 \circ \odot	
	8686 Aug 18 23:55	0° m y			8687 Jul 27 00:36	$0^{\circ}\Omega$	
max. Earth dist.	8686 Aug 20 03:49	2° m/30'40	1.32024 AU	morning set	8687 Jul 29 07:15	4° £ 26'33	
				max. Earth dist.	8687 Aug 03 04:35	14° £ 24'38	1.32891 AU
superior conj	8686 Aug 22 00:48	6° Mp 36′05	0°47'47	asc. node	8687 Aug 04 00:38	16° Ω 10′03	
minimum elong	8686 Aug 21 22:52	6° Mp 25′28	0°47'19				
evening rise	8686 Aug 28 20:04	21° m 28'34		superior conj	8687 Aug 06 06:53	20° Ω 58'50	0°22'41
	8686 Sep 01 22:10	0∘ ⊽		minimum elong	8687 Aug 06 05:48	20° Ω 53′02	0°22'18
desc. node	8686 Sep 20 16:56	29° ≏ 40'40		•	8687 Aug 10 11:05	0° m)	
	8686 Sep 21 00:01	0° M .		evening rise	8687 Aug 13 07:38	6°M)08'16	
evening max el	8686 Sep 23 02:38	2°MJ09'11	24°29'26	-	8687 Aug 25 22:28	0∘ 亚	
retrograde	8686 Oct 06 21:11	9° ጤ 04'11		evening max el	8687 Sep 04 13:54	12° ≏ 21'29	22°50'01
evening set	8686 Oct 12 01:51	8°MJ04'21		desc. node	8687 Sep 07 14:03	14° ≙ 58'49	
min. Earth dist.	8686 Oct 17 13:34	5° M ₊15'13	0.56515 AU	retrograde	8687 Sep 17 19:20	18° ≏ 57'43	
inferior conj	8686 Oct 20 03:00	3°M38'22	-5°34'07	evening set	8687 Sep 21 11:45	18° ≏ 27'57	
minimum elong	8686 Oct 20 05:26	3°M34'31	5°33'52	min. Earth dist.	8687 Sep 28 22:02	15° ≏ 07'08	0.55184 AU
	8686 Oct 27 01:15	30° ₽ Ω		inferior conj	8687 Sep 30 06:40	14° ≏ 20'23	-5°25'18
morning rise	8686 Oct 28 11:11	29° ≏ 35'47		minimum elong	8687 Sep 30 01:30	14° ≏ 27'48	5°24'42
direct	8686 Oct 31 01:39	29° ₽ 17'30		morning rise	8687 Oct 08 17:15	10° ≏ 31'38	
	8686 Nov 03 21:44	0° M		direct	8687 Oct 11 19:46	10° ≏ 09'18	
morning max el	8686 Nov 09 17:40	3°M52'03	19°34'22	morning max el	8687 Oct 23 01:23	15° ≙ 25'07	20°53'34
asc. node	8686 Nov 13 03:25	7° IL 38'37		asc. node	8687 Oct 31 00:24	25° ≙ 19'50	
	8686 Nov 26 04:55	0° ∡ ¹			8687 Nov 02 20:58	0° M .	
morning set	8686 Nov 27 03:27	1° ∡ 752'53		morning set	8687 Nov 11 11:19	16°M35'24	
-				-	8687 Nov 17 21:49	0° ∡ ¹	
superior conj	8686 Dec 05 02:06	17° ∡ ¹49'25	1°24'22				
minimum elong	8686 Dec 05 04:51	18° ∡ 02'53	1°24'18	superior conj	8687 Nov 18 20:43	1° ∡ 757'55	1°36'21
	8686 Dec 11 11:18	0°ප		minimum elong	8687 Nov 18 22:16	2° ∡ ¹05'51	1°36'27
max. Earth dist.	8686 Dec 11 08:35	29° ∡ ¹47'27	1.37753 AU	max. Earth dist.	8687 Nov 23 17:15	11° ∡ ¹42'58	1.35733 AU
evening rise	8686 Dec 15 01:54	6° ප 31'02		evening rise	8687 Nov 27 17:06	19° ∡ ¹20'51	
desc. node	8686 Dec 17 15:44	11° る 00'29			8687 Dec 03 15:42	ರ°0	
	8686 Dec 29 11:20	0° ≈		desc. node	8687 Dec 04 12:47	1° る 30'19	
evening max el	8687 Jan 19 15:33	27° ≈ 13'06	25°13'52		8687 Dec 23 13:37	0° ≈	
-	8687 Jan 22 17:13	0°) €		evening max el	8688 Jan 02 04:38	10° ≈ 58'48	26°19'23
retrograde	8687 Jan 31 16:08	4°){ 10′27		retrograde	8688 Jan 15 00:13	18° ≈ 13'30	
evening set	8687 Feb 06 10:52	1°){ 46'41		evening set	8688 Jan 21 07:08	15° ≈ 40'56	
	8687 Feb 08 06:53	30° R ≈		min. Earth dist.	8688 Jan 25 11:08	11° ≈ 20'44	0.66637 AU
asc. node	8687 Feb 09 02:35	29° ≈ 04'19		asc. node	8688 Jan 26 23:41	9° ≈ 29'17	
min. Earth dist.	8687 Feb 10 21:20	26° ≈ 51'55	0.67634 AU	inferior conj	8688 Jan 27 03:28	9° ≈ 17'42	0°03'09
inferior conj	8687 Feb 12 02:05	25° ≈ 18'30	0°58'00	minimum elong	8688 Jan 27 03:23	9° ≈ 17'59	0°03'18
minimum elong	8687 Feb 12 00:44	25° ≈ 22'54	0°57'37	transit middle	8688 Jan 27 03:23	9° ≈ 17'59	0°03'18

	0.000 x 0.000 x	00 20126			0.000 1 00 00 00	200-7	
transit begin	8688 Jan 27 00:34	9°≈26'36			8689 Jan 02 22:20	30°₹₹	
transit end	8688 Jan 27 06:12	9°≈09'22		evening set	8689 Jan 03 19:58	29° 3 20'39	0.65070.441
morning rise	8688 Feb 02 00:25	3°≈32'26		min. Earth dist.	8689 Jan 07 18:20	25° 3 34'19	0.65278 AU
direct	8688 Feb 05 01:54	2°≈39'29	1002451	inferior conj	8689 Jan 09 22:17	23° る 08'27	
morning max el	8688 Feb 11 16:37	6°≈13'52	18°34'51	minimum elong	8689 Jan 10 00:02	23°る03'33	0°58'06
	8688 Feb 28 12:08	0°) (10102		asc. node	8689 Jan 12 20:46	20°る02'11	
desc. node	8688 Mar 01 12:21	3° ¥ 10′02		morning rise	8689 Jan 16 05:27	17° る 35'21	
morning set	8688 Mar 03 11:55	6° 升 17'40		direct	8689 Jan 18 21:51	16°る56'46	10002105
	8688 Mar 18 14:14	0 ° $\mathbf{\gamma}$		morning max el	8689 Jan 25 08:06	20° ට 20'49	18°03'05
	0.600 M 10 14.54	10000000	1040101		8689 Feb 01 18:07	0° ≈	
superior conj	8688 Mar 19 14:54	1° Υ 36'32		morning set	8689 Feb 12 10:51	17°≈13'54	
minimum elong	8688 Mar 19 05:41	1°Υ00'29		desc. node	8689 Feb 16 09:17	23°≈40'18	
max. Earth dist.	8688 Mar 19 08:12	1°Υ10'21	1.45500 AU		8689 Feb 20 06:59	0°) €	
evening rise	8688 Apr 04 06:03	26° Y 15'31			0600 F 1 26 22 06	100 1/20150	1011145
1 '11'	8688 Apr 06 14:25	0° 8	0.0	superior conj	8689 Feb 26 23:06	10°) 38'58	
greatest brilliancy	8688 Apr 12 18:09	9° 8 46'25	-0.8m	minimum elong	8689 Feb 26 15:00	10° ¥ 06'54	
asc. node	8688 Apr 23 22:27	25° 8 55'32		max. Earth dist.	8689 Mar 02 03:45	15°) 40′50	1.45384 AU
evening max el	8688 Apr 25 22:57	28° 8 09'17	18°49'23		8689 Mar 11 08:19	0°Υ	
_	8688 Apr 28 00:45	0°II		evening rise	8689 Mar 15 03:06	5° Υ 51'10	
retrograde	8688 May 02 15:32	1° ∏ 51′29		greatest brilliancy	8689 Mar 28 12:11	26° Y 17'04	-0.7m
evening set	8688 May 05 23:07	0° ∏ 48'14			8689 Mar 31 00:56	0° 8	
	8688 May 07 01:38	30° ₹ 8		evening max el	8689 Apr 09 05:47	11° 8 47'30	19°36'54
inferior conj	8688 May 11 13:07	25° 8 07'18	3°21'39	asc. node	8689 Apr 10 19:34	13° 8 16'19	
minimum elong	8688 May 11 13:33	25° 8 05'58	3°21'28	retrograde	8689 Apr 16 13:02	15° 8 57'45	
min. Earth dist.	8688 May 13 08:11	22° 8 53'15	0.65739 AU	evening set	8689 Apr 20 04:52	14° 8 39'32	
morning rise	8688 May 17 03:22	18° 8 48'52		inferior conj	8689 Apr 25 14:17	8° 8 43'56	3°19'40
direct	8688 May 23 14:32	16° 8 02'23		minimum elong	8689 Apr 25 13:31	8° 8 46'27	3°19'28
desc. node	8688 May 28 12:13	17° 8 21'10		min. Earth dist.	8689 Apr 26 18:24	7° 8 10'46	0.67080 AU
morning max el	8688 Jun 05 18:08	23° 8 50'40	26°45'20	morning rise	8689 Apr 30 21:49	2° 8 25'41	
	8688 Jun 11 06:06	Π $\circ 0$			8689 May 05 00:41	30° ŖƳ	
	8688 Jul 01 17:58	0°€		direct	8689 May 06 22:45	29° Ƴ 44'35	
morning set	8688 Jul 11 14:19	17° © 38'20			8689 May 08 22:53	9° 8	
max. Earth dist.	8688 Jul 15 19:12	25° © 50'01	1.34244 AU	desc. node	8689 May 15 09:11	3° 8 35'21	
	8688 Jul 17 20:46	$0 ^{\circ} \Omega$		morning max el	8689 May 19 03:57	7° 8 03'52	25°31'19
					8689 Jun 05 23:42	Π $^{\circ}0$	
superior conj	8688 Jul 20 06:57	4° Ω 59'34	-0°06'09	morning set	8689 Jun 24 06:32	0° © 05'19	
minimum elong	8688 Jul 20 07:18	5° Ω 01'22	0°06'16		8689 Jun 24 05:21	0 \circ \mathfrak{s}	
behind sun begin	8688 Jul 20 01:57	4° £ 33'36		max. Earth dist.	8689 Jun 27 22:57	6° ॐ 54'31	1.36058 AU
behind sun end	8688 Jul 20 12:38	5° Ω 29'09					
asc. node	8688 Jul 20 21:37	6° Ω 15'58		superior conj	8689 Jul 03 22:18	18° © 31'29	-0°37'32
evening rise	8688 Jul 27 17:32	20° Ω 39'05		minimum elong	8689 Jul 04 00:34	18° 5 42'49	0°37'18
	8688 Aug 01 07:47	O° Mp		asc. node	8689 Jul 07 18:37	26°9518'24	
evening max el	8688 Aug 16 07:48	22° Mp 45'00	21°15'51		8689 Jul 09 13:55	$0^{\circ}\Omega$	
desc. node	8688 Aug 24 11:12	28° Mp 05'47		evening rise	8689 Jul 11 23:39	4° Ω 55'11	
retrograde	8688 Aug 28 08:28	28° m 42'44			8689 Jul 26 06:49	0° m ∕	
evening set	8688 Aug 30 18:25	28° m 29'13		evening max el	8689 Jul 29 14:23	3° Mp 46'44	19°57'49
inferior conj	8688 Sep 08 23:41	24° Mp 32'11	-4°20'55	retrograde	8689 Aug 08 22:44	8° m 53'21	
minimum elong	8688 Sep 08 14:05	24° Mp 45'40	4°18'24	evening set	8689 Aug 10 19:59	8° m 43'55	
min. Earth dist.	8688 Sep 09 06:45	24° Mp 22'15	0.54671 AU	desc. node	8689 Aug 11 08:19	8° m 38'13	
morning rise	8688 Sep 17 10:24	20° m 39'27		inferior conj	8689 Aug 19 20:02	4° m 44′02	-2°34'32
direct	8688 Sep 21 04:14	20° Mp 09'14		minimum elong	8689 Aug 19 13:00	4° m 54′38	2°32'04
morning max el	8688 Oct 03 21:02	26° Mp 11'41	22°31'20	min. Earth dist.	8689 Aug 21 17:27	3°₩35′27	0.55115 AU
	8688 Oct 07 11:42	0∘ ⊽		morning rise	8689 Aug 28 04:24	0° Mp 27′32	
asc. node	8688 Oct 16 21:22	13° ≏ 46'27			8689 Aug 29 22:21	30° R Ω	
	8688 Oct 25 06:03	0°M		direct	8689 Sep 01 16:45	29° Ω 43′00	
morning set	8688 Oct 25 22:02	1°M23'55			8689 Sep 04 10:35	O°Mp	
				morning max el	8689 Sep 15 09:45	6°₩28'16	24°17'32
superior conj	8688 Nov 01 23:18	16°M28'07	1°41'00		8689 Oct 02 06:14	0∘ ⊽	
minimum elong	8688 Nov 01 23:33	16°M29'24	1°41'09	asc. node	8689 Oct 03 18:19	2° ₽ 47'26	
max. Earth dist.	8688 Nov 05 09:02	23°M36'43	1.34045 AU	morning set	8689 Oct 10 09:46	16° ≏ 13'16	
	8688 Nov 08 12:37	0° ∡ ¹			8689 Oct 16 17:58	0° M	
evening rise	8688 Nov 09 23:08	2° ∡ °50′07					
desc. node	8688 Nov 20 09:52	21° ₹ 45'49		superior conj	8689 Oct 17 07:05	1°M11'32	1°39'08
	8688 Nov 25 12:42	0°ರ		minimum elong	8689 Oct 17 06:10	1° M 06'36	1°39'13
evening max el	8688 Dec 14 17:50	24° る 35'25	27°06'43	max. Earth dist.	8689 Oct 19 09:18	5°M43'38	1.32785 AU
	8688 Dec 21 16:51	0° ≈		evening rise	8689 Oct 24 16:22	16°M49'06	
retrograde	8688 Dec 28 02:36	1° ≈ 56′26			8689 Oct 31 12:28	0° ∡ ¹	

11-	9.690 N 07.06.57	110.74000		J J.	9600 0-4 25 04.02	10.704!11	
desc. node	8689 Nov 07 06:57	11° х 40'00		desc. node	8690 Oct 25 04:03	1° ₹ 04'11	27010127
	8689 Nov 20 02:08	0°る	25020111	evening max el	8690 Nov 09 14:12	20° 🗷 32'01	27°19'37
evening max el	8689 Nov 27 05:51	7° 云 50'57	27°28'44	retrograde	8690 Nov 23 10:21	27° ∡ °45′01	
retrograde	8689 Dec 10 22:16	15° る 09'46		evening set	8690 Nov 30 12:07	25° ≯ 27'15	
evening set	8689 Dec 17 22:43	12° る 38'22		min. Earth dist.	8690 Dec 04 04:39	22° ≯ 37'56	0.61659 AU
min. Earth dist.	8689 Dec 21 16:45	9° る 23'27		inferior conj	8690 Dec 07 05:08	19° ₹ 55'19	
inferior conj	8689 Dec 24 07:53	6° る 43'32		minimum elong	8690 Dec 07 11:25	19° √ 41'11	3°15'44
minimum elong	8689 Dec 24 11:54	6° ප 33'19	2°05'22	morning rise	8690 Dec 14 12:59	14° ≯ 56′06	
asc. node	8689 Dec 30 17:50	1° る 35'02		direct	8690 Dec 16 18:31	14° ≯ ³34'51	
morning rise	8689 Dec 31 02:56	1°る25'37		asc. node	8690 Dec 17 14:51	14° ₹ 38'01	
direct	8690 Jan 02 12:32	0° る 57'31		morning max el	8690 Dec 23 17:38	18° ∡ ¹06'02	17°52'02
morning max el	8690 Jan 09 01:29	4° る 20'45	17°48'32		8691 Jan 01 06:52	0°ප	
morning set	8690 Jan 25 12:40	29° පි 28'17		morning set	8691 Jan 08 10:54	12° る 40'34	
	8690 Jan 25 20:03	0° ≈			8691 Jan 18 04:33	0° ≈	
desc. node	8690 Feb 03 06:13	14° ≈ 18'59					
				superior conj	8691 Jan 19 05:20	1° ≈ 46'52	0°14'10
superior conj	8690 Feb 07 01:31	20° ≈ 36′14	-0°27'35	minimum elong	8691 Jan 19 06:36	1°≈52'20	0°14'10
minimum elong	8690 Feb 06 22:31	20° ≈ 23'59	0°26'59	behind sun begin	8691 Jan 19 02:37	1° ≈ 35'11	
	8690 Feb 12 21:13	0° ∀		behind sun end	8691 Jan 19 10:36	2°≈09'27	
max. Earth dist.	8690 Feb 12 22:26	0° ₩ 04'50	1.44547 AU	desc. node	8691 Jan 21 03:11	5°≈02'34	
evening rise	8690 Feb 22 14:28	15° ¥ 11'05		max. Earth dist.	8691 Jan 26 13:37	14°≈05'23	1.43081 AU
C	8690 Mar 04 09:32	$_0$ ° $oldsymbol{\gamma}$		evening rise	8691 Feb 02 07:27	24°≈52'30	
evening max el	8690 Mar 23 07:14	25° Ƴ 27'21	20°38'54	Z .	8691 Feb 05 14:42	0° ∀	
asc. node	8690 Mar 28 16:41	29° Ƴ 35'04			8691 Feb 26 09:48	o°Υ	
	8690 Mar 29 19:46	0°8		evening max el	8691 Mar 06 03:14	9° Υ 08'06	21°51'58
retrograde	8690 Mar 31 11:35	0° 8 14'20		retrograde	8691 Mar 15 09:15	14° Ƴ 36'45	
renogrado	8690 Apr 02 02:02	30°RY		asc. node	8691 Mar 15 13:47	14° Υ 36'34	
evening set	8690 Apr 04 12:40	28° Y 40'47		evening set	8691 Mar 19 20:47	12° Υ 47'52	
inferior conj	8690 Apr 09 20:04	22° Υ 32'16	3°05'40	inferior conj	8691 Mar 25 04:17	6° Υ 28'57	2°41'26
minimum elong	8690 Apr 09 18:25	22° Y 37'55	3°05'20	minimum elong	8691 Mar 25 02:08	6°Υ36'25	2°40'55
min. Earth dist.	8690 Apr 10 10:14	21° Y 43'35	0.67971 AU	min. Earth dist.	8691 Mar 25 05:37	6° Υ 24'19	0.68410 AU
	8690 Apr 14 23:57	16° Υ 16'35	0.07971 AU	morning rise	8691 Mar 30 07:21	0° Υ 17'11	0.06410 AC
morning rise direct	8690 Apr 20 12:04	13° Y 49'50		morning rise	8691 Mar 30 15:31	30° ₹	
	8690 May 01 13:00	20° Υ 25'45	24°04'32	direct	8691 Apr 04 05:30	28°) 10′21	
morning max el	•	20 γ 23 43 21° γ 09'47	24 04 32	direct	-	28 π 1021 0° Υ	
desc. node	8690 May 02 06:08				8691 Apr 09 08:29	3° Υ 55'21	22924155
	8690 May 09 17:40	0° B		morning max el	8691 Apr 13 23:36	9° Υ 42'19	22-34-33
	8690 May 30 04:32	0°II		desc. node	8691 Apr 19 03:03		
morning set	8690 Jun 06 02:47	11° II 34'03	1 20211 177		8691 May 03 21:13	0° 8	
max. Earth dist.	8690 Jun 09 19:59	18° Ⅱ 05'12	1.38211 AU	morning set	8691 May 17 21:47	21° 8 51'32	1 10160 177
	8690 Jun 16 07:24	0ං ම		max. Earth dist.	8691 May 22 17:25		1.40468 AU
					8691 May 22 18:53	$\Pi^{\circ}0$	
superior conj	8690 Jun 17 01:31	1°525'59			0.001.34 .00.10.10	100 1100110	1020122
minimum elong	8690 Jun 17 05:53	1°546'47	1°09'07	superior conj	8691 May 30 12:19	13° Ⅲ 32'42	
asc. node	8690 Jun 24 15:39	16°513'23		minimum elong	8691 May 30 18:10	13° Ⅱ 59'06	1°38'54
evening rise	8690 Jun 25 23:23	18°549'45			8691 Jun 08 09:05	0°©	
	8690 Jul 01 19:16	0 \circ Ω		evening rise	8691 Jun 09 13:29	2°514'09	
evening max el	8690 Jul 12 09:47	15° Ω 33'19	19°00'09	asc. node	8691 Jun 11 12:40	5° © 56'17	
retrograde	8690 Jul 21 02:53	19° £ 52′21		evening max el	8691 Jun 25 14:53	27° 9 59'03	18°23'16
evening set	8690 Jul 23 01:11	19° Ω 40'30			8691 Jun 28 00:48	0 \circ Ω	
desc. node	8690 Jul 29 05:23	16° £ 51'34		retrograde	8691 Jul 03 02:11	1° Ω 43'29	
inferior conj	8690 Jul 31 08:26	15° Ω 25'15		evening set	8691 Jul 05 06:57	1° Ω 24'54	
minimum elong	8690 Jul 31 06:46	15° Ω 28'09	0°38'35		8691 Jul 08 10:43	30° ₹ 5	
min. Earth dist.	8690 Aug 03 07:40	13° Ω 22'04	0.56435 AU	inferior conj	8691 Jul 12 18:25	26° © 49'37	0°58'40
morning rise	8690 Aug 08 09:13	10° Ω 32'46		minimum elong	8691 Jul 12 20:23	26°5945'37	0°57'47
direct	8690 Aug 13 17:29	9° Ω 25'30		min. Earth dist.	8691 Jul 16 03:30	24° © 05'21	0.58380 AU
morning max el	8690 Aug 27 22:57	16° Ω 44'16	25°56'18	desc. node	8691 Jul 16 02:28	24° © 07'22	
	8690 Sep 07 19:33	0° mp		morning rise	8691 Jul 20 06:25	21° © 21'29	
asc. node	8690 Sep 20 15:17	22° Mp 13'53		direct	8691 Jul 26 08:25	19° 5 44'16	
	8690 Sep 24 09:51	0∘ ⊽		morning max el	8691 Aug 09 17:52	27° 5 27'13	27°11'00
morning set	8690 Sep 24 20:56	0° £ 58'51			8691 Aug 12 04:54	0 $^{\circ}$ Ω	
					8691 Sep 01 09:37	0° ™	
superior conj	8690 Oct 01 17:51	16° ≏ 01'25	1°31'26	asc. node	8691 Sep 07 12:13	11° m 57'50	
minimum elong	8690 Oct 01 16:06	15° ≙ 51'45	1°31'20	morning set	8691 Sep 09 05:46	15°M 34'38	
max. Earth dist.	8690 Oct 02 16:08	18° ≏ 04'27	1.31975 AU		8691 Sep 15 20:31	0∘ ত	
	8690 Oct 08 04:27	0°M₊					
evening rise	8690 Oct 08 17:41	1°M09'20		superior conj	8691 Sep 16 05:38	0° ≙ 50'34	1°18'22
	8690 Oct 24 11:32	0° ∡ ¹		minimum elong	8691 Sep 16 03:26	0° ჲ 38'23	1°18'03

may Earth dist	9601 San 16 02:00	00 0 20124	1 21622 AII	avanina risa	9602 San 06 10:29	0° £ 22'22	
max. Earth dist.	8691 Sep 16 02:00	0° £ 30'24 15° £ 42'19	1.31622 AU	evening rise	8692 Sep 06 10:38	0° 亞	
evening rise	8691 Sep 23 00:28 8691 Sep 30 02:51	0°M.			8692 Sep 06 06:28 8692 Sep 22 11:49	0°M	
desc. node	8691 Oct 12 01:08	19°M45'19		desc. node	8692 Sep 27 22:15	7°M26'40	
desc. Hode	8691 Oct 20 06:08	0° √		evening max el	8692 Oct 03 09:48	13°M27'57	25022122
evening max el	8691 Oct 20 00:08 8691 Oct 22 16:00	0 x ⁴ 2° x ⁴25'32	26°36'36	retrograde	8692 Oct 17 07:31	20°M29'08	23 22 23
retrograde	8691 Nov 05 13:58	2 x ·23 32 9° x 32'52	20 30 30	evening set	8692 Oct 17 07.31 8692 Oct 23 05:14	19°M08'57	
evening set	8691 Nov 12 07:54	7° × ⁷ 39'18		min. Earth dist.	8692 Oct 27 21:48		0.57534 AU
min. Earth dist.	8691 Nov 16 05:42	5°× 7 03'56	0.59567 AU	inferior conj	8692 Oct 30 20:49	14°M29'05	
inferior conj	8691 Nov 10 03.42 8691 Nov 19 10:31	2° ₹ ¹33'30		minimum elong	8692 Oct 31 02:22	14°M19'36	
minimum elong	8691 Nov 19 10:51 8691 Nov 19 17:57	2°×18'53		morning rise	8692 Nov 08 01:50	14 IIC1936 10°M14'26	3 10 33
minimum ciong	8691 Nov 19 17:57 8691 Nov 22 21:58	2 x 10 33	4 23 21	direct	8692 Nov 10 11:00	9°M57'26	
morning rise	8691 Nov 27 06:27	27°M56'08		morning max el	8692 Nov 19 08:08	14°M12'39	18°58'59
morning rise direct	8691 Nov 27 00:27 8691 Nov 29 11:26	27°M38'32		•		15°M15'10	10 30 39
asc. node	8691 Nov 29 11:20 8691 Dec 04 11:51	27 IIL3832 29°M14'47		asc. node	8692 Nov 20 08:51 8692 Nov 30 06:12	13 IIC13 10 0° ⊼ ¹	
asc. node	8691 Dec 04 11:31 8691 Dec 05 13:24	29 1161447 0° √ 7		marning sat		0 x. 10° x 51′28	
mamina may al	8691 Dec 03 13:24 8691 Dec 07 05:06	0 x . 1° x 26'49	18°14'57	morning set	8692 Dec 05 22:13	10 × 31 28	
morning max el			18 14 37		9(02 D 14 07-21	279.717.41	1012147
morning set	8691 Dec 22 23:35	26° ₹ 32'41		superior conj	8692 Dec 14 07:21	27° ₹ 16'41	1°13'47
	8691 Dec 24 19:21	0° ප		minimum elong	8692 Dec 14 10:34	27° ₹ 32'01	1°13'36
	0602 1 01 00 54	1.40=05106	0040127	To all II a	8692 Dec 15 17:43	0°る	1 20002 ATT
superior conj	8692 Jan 01 08:54	14° る 05'06	0°48'27	max. Earth dist.	8692 Dec 21 05:40	10°る06'23	1.38992 AU
minimum elong	8692 Jan 01 12:04	14°る19'26	0°48'11	desc. node	8692 Dec 24 21:08	16° る 29'33	
desc. node	8692 Jan 08 00:09	25° る 47'19	1 41150 411	evening rise	8692 Dec 25 02:07	16° る 50'57	
max. Earth dist.	8692 Jan 08 23:41	27° る 27'42	1.41150 AU		8693 Jan 02 01:50	0° ≈	
	8692 Jan 10 11:48	0°≈			8693 Jan 23 08:43	0°) (37120	24020154
evening rise	8692 Jan 13 17:51	5°≈22'30		evening max el	8693 Jan 29 08:36	6°) (37′29	24°30'54
	8692 Jan 29 19:51	0°) (51105	22211121	retrograde	8693 Feb 09 20:20	13°) €20'43	
evening max el	8692 Feb 16 19:01	22° H 51'05	23°11'21	evening set	8693 Feb 15 07:39	11° 米 03'51	
retrograde	8692 Feb 27 04:38	29° ₩ 00'35		asc. node	8693 Feb 16 07:58	10°) €07'33	
asc. node	8692 Mar 01 10:52	28° ₩ 08'12		min. Earth dist.	8693 Feb 19 22:17	5°) (48'54	0.68028 AU
evening set	8692 Mar 03 03:37	26°) 57'01		inferior conj	8693 Feb 20 20:24	4°) (34'57	1°26'00
min. Earth dist.	8692 Mar 08 02:23	21°) 07'40	0.68419 AU	minimum elong	8693 Feb 20 18:34	4°) €41'03	1°25'27
inferior conj	8692 Mar 08 13:01	20°) (30′58	2°08'02		8693 Feb 24 14:38	30°R≈	
minimum elong	8692 Mar 08 10:47	20°\(\)38'38	2°07'24	morning rise	8693 Feb 26 05:37	28°≈34'57	
morning rise	8692 Mar 13 17:54	14°) (24'23		direct	8693 Mar 02 00:54	27°≈12'07	
direct	8692 Mar 18 02:12	12°) (39'42	21010152		8693 Mar 08 00:30	0°) (2<122	10050110
morning max el	8692 Mar 26 15:08	17°) (35'13	21°10'53	morning max el	8693 Mar 09 14:01	1°) €26'32	19°58'19
desc. node	8692 Apr 04 23:58	28°) 56'57		desc. node	8693 Mar 22 20:52	18°) 41′55	
	8692 Apr 05 18:27	$^{\circ \gamma}$. ,	8693 Mar 30 10:43	0° Υ	
. ,	8692 Apr 25 23:33	0°8		morning set	8693 Apr 05 12:16	9° Υ 16'14	1 44201 ATT
morning set	8692 Apr 26 13:45	0° 8 55'44	1 40545 ATT	max. Earth dist.	8693 Apr 16 05:55	26° Y 04'44	1.44201 AU
max. Earth dist.	8692 May 03 20:12	12° 8 34'41	1.42547 AU		8693 Apr 18 16:42	0° 8	
superior conj	8692 May 11 02:04	24° 8 41'32	-2°02'13	superior conj	8693 Apr 21 15:17	4° 8 45'37	-2°12'08
minimum elong	8692 May 11 07:10	25° 8 03'23		minimum elong	8693 Apr 21 15:43	4° 8 47'26	
g	8692 May 14 03:51	0°II	2 02 00	evening rise	8693 May 04 19:47	26° 8 51'14	
evening rise	8692 May 22 13:53	14° ∏ 58'32		evening rise	8693 May 06 15:50	0° Ⅱ	
asc. node	8692 May 28 09:43	25° I I22'21		asc. node	8693 May 15 06:47	14° ∏ 24'39	
use. Houe	8692 May 31 02:58	0 ಲಾ		evening max el	8693 May 22 15:23	24° ∏ 12'25	18°08'49
evening max el	8692 Jun 08 01:58	10°955'32	18°06'28	retrograde	8693 May 29 00:43	27° II 33'18	
retrograde	8692 Jun 14 18:55	14°520'41	10 00 20	evening set	8693 May 31 20:37	26° I 52'07	
evening set	8692 Jun 17 07:17	13°952'01		inferior conj	8693 Jun 07 00:34	21° I 37'54	2°53'20
inferior conj	8692 Jun 24 01:05	8°956'41	2°09'00	minimum elong	8693 Jun 07 02:59	21° I I31'23	
minimum elong	8692 Jun 24 04:06	8° 5 49'33	2°07'58	min. Earth dist.	8693 Jun 09 19:13	18° Ⅲ 39'48	0.62829 AU
min. Earth dist.	8692 Jun 27 06:59	5° © 53'32	0.60615 AU	morning rise	8693 Jun 13 07:43	15° Ⅱ 28'33	0.02027 110
morning rise	8692 Jun 30 22:15	3°502'31	0.00013 110	desc. node	8693 Jun 18 20:33	13° Ⅱ 01'21	
desc. node	8692 Jul 01 23:31	2° © 24'55		direct	8693 Jun 20 01:59	12° Д 56'32	
direct	8692 Jul 07 12:12	0°954'25		morning max el	8693 Jul 04 02:41	20° II 59'23	27°51'48
morning max el	8692 Jul 21 19:39	8°952'21	27°50'31		8693 Jul 11 21:39	0°95	_, 51 10
mun vi	8692 Aug 07 00:52	0°Ω	5551		8693 Jul 31 02:50	0°N	
morning set	8692 Aug 23 10:31	29° £ 55'50		morning set	8693 Aug 07 09:04	13° Ω 56'10	
	8692 Aug 23 11:20	0° m		asc. node	8693 Aug 11 06:09	21° Ω 57'19	
asc. node	8692 Aug 24 09:10	1° Mp 54'00		max. Earth dist.	8693 Aug 12 15:56	$24^{\circ} \Omega 57'02$	1.32331 AU
max. Earth dist.	8692 Aug 29 11:12	12° Mp 51'34	1.31739 AU	max. Durin dist.	5075 Fing 12 15.50	2.063/02	1.52551 AU
Darui dist.	00/2.1ug 2/ 11.12	- 17.515T	1.51,57,110	superior conj	8693 Aug 15 01:09	0° m 05'50	0°37'38
superior conj	8692 Aug 30 16:40	15° m 33'58	1°00'19	minimum elong	8693 Aug 14 23:30	29° Ω 56'54	
minimum elong	8692 Aug 30 14:30	15° m/21'56			8693 Aug 15 00:04	0° my	
3					Č		

max. Earth dist.

8695 Jul 08 22:56

17°955'17 1.34969 AU

superior conj	8695 Jul 14 01:45	28° © 09'46	-0°19'14	superior conj	8696 Jun 26 12:22	11° 5 26'31	-0°51'12
minimum elong	8695 Jul 14 02:52	28° © 15'27	0°19'11	minimum elong	8696 Jun 26 15:32	11° © 42'03	0°50'50
	8695 Jul 14 23:13	$0^{\circ}\Omega$		asc. node	8696 Jul 01 21:05	22°508'00	
asc. node	8695 Jul 16 00:07	2° Ω 08'33		evening rise	8696 Jul 04 21:43	28°9514'08	
evening rise	8695 Jul 21 17:58	14° Ω 06'19		•	8696 Jul 05 18:50	$0^{\circ}\Omega$	
8 11	8695 Jul 29 21:41	0° m		evening max el	8696 Jul 21 21:54	26° Ω 02'00	19°30'40
evening max el	8695 Aug 09 09:43	14° m) 41'35	20°40'12	evening man er	8696 Jul 27 13:54	0° m)	1, 20.0
desc. node	8695 Aug 19 13:37	20° mg 15'04	20 40 12	ratragrada	8696 Jul 31 13:06	ريان 0° ال 047'40	
	•			retrograde			
retrograde	8695 Aug 20 17:52	20° m 18'35		evening set	8696 Aug 02 09:24	0° Tp 37'56	
evening set	8695 Aug 22 20:18	20° Mp 07'48			8696 Aug 04 17:12	30°RΩ	
inferior conj	8695 Sep 01 01:10	16° Mp 10'54	-3°39'08	desc. node	8696 Aug 05 10:43	29° Ω 42'52	
minimum elong	8695 Aug 31 15:56	16° Mp 24'08	3°36'17	inferior conj	8696 Aug 11 03:12	26° Ω 32'33	-1°44'42
min. Earth dist.	8695 Sep 02 01:15	15°M 36'21	0.54743 AU	minimum elong	8696 Aug 10 22:28	26° Ω 40'08	1°43'01
morning rise	8695 Sep 09 11:26	12° m/ 10'39		min. Earth dist.	8696 Aug 13 13:30	24° Ω 59'37	0.55579 AU
direct	8695 Sep 13 12:41	11° Mp 35'30		morning rise	8696 Aug 19 09:01	22° Ω 01′03	
morning max el	8695 Sep 26 17:20	17° m 56'21	23°16'24	direct	8696 Aug 24 05:31	21° Ω 08'06	
<i>S</i>	8695 Oct 06 12:12	0∘ <u>⊽</u>		morning max el	8696 Sep 07 05:39	28° Ω 09′29	25°01'30
asc. node	8695 Oct 11 23:50	∘ <u>~</u> 08'44		moning man vi	8696 Sep 09 01:52	0° m)	20 0130
morning set	8695 Oct 20 00:13	25° £ 03'16		asc. node	8696 Sep 27 20:47	28° Mp 21'07	
morning set				asc. noue	•		
	8695 Oct 22 07:41	0°M₊			8696 Sep 28 17:00	0∘ ⊽	
				morning set	8696 Oct 03 11:53	9° ≏ 51'15	
superior conj	8695 Oct 26 23:18	10°M03'11	1°40'57				
minimum elong	8695 Oct 26 23:01	10°M01'43	1°41'06	superior conj	8696 Oct 10 08:36	24° ≏ 49'59	1°36'34
max. Earth dist.	8695 Oct 29 19:24	16° ™ 05'49	1.33454 AU	minimum elong	8696 Oct 10 07:18	24° ≏ 42'49	1°36'34
evening rise	8695 Nov 03 16:16	26°M04'25		max. Earth dist.	8696 Oct 11 22:33	28° ≏ 17'37	1.32379 AU
	8695 Nov 05 16:23	0° ∡ ¹			8696 Oct 12 17:24	0° M	
desc. node	8695 Nov 15 12:17	17° ∡ ¹36'59		evening rise	8696 Oct 17 13:15	10°ML12'52	
	8695 Nov 23 12:21	6°0		C	8696 Oct 27 23:40	0° ∡ ¹	
evening max el	8695 Dec 08 00:01	17° る 37'45	27°19'27	desc. node	8696 Nov 01 09:22	7° х 19′20	
retrograde	8695 Dec 21 12:21	24° る 58'32	2, 1, 2,	dese. node	8696 Nov 18 18:15	0°ਰ	
•	8695 Dec 28 09:28	24 3 3632 22° る 23'15		avanina may al		0°る39'14	27°28'53
evening set			0.64604.411	evening max el	8696 Nov 19 10:34		21 28 33
min. Earth dist.	8696 Jan 01 05:41	18°る51'04		retrograde	8696 Dec 03 05:10	7°る56'44	
inferior conj	8696 Jan 03 14:37	16° る 17'52		evening set	8696 Dec 10 07:02	5° る 29'36	
minimum elong	8696 Jan 03 17:18	16° る 10'39	1°26'03	min. Earth dist.	8696 Dec 13 23:45	2° る 26'43	0.62793 AU
asc. node	8696 Jan 07 23:14	12° る 08'01		inferior conj	8696 Dec 16 19:21	29° ∡ ¹43'42	-2°37'17
morning rise	8696 Jan 10 02:42	10°る51'08		minimum elong	8696 Dec 17 00:23	29° х 31′32	2°35'08
direct	8696 Jan 12 15:58	10°る17'27			8696 Dec 16 12:38	30°₽ ⋌ ¹	
morning max el	8696 Jan 19 02:23	13° る 39'44	17°54'48	morning rise	8696 Dec 23 19:51	24° ∡ ³33'36	
•	8696 Jan 30 14:46	0° ≈		asc. node	8696 Dec 24 20:17	24° ∡ 16'45	
morning set	8696 Feb 05 09:26	9° ≈ 38'19		direct	8696 Dec 26 03:13	24° ₹ '08'58	
desc. node	8696 Feb 11 11:39	19° ≈ 46′26		morning max el	8697 Jan 01 19:43	27° ∡ ³34'41	17°47'47
dese. Hode	8696 Feb 17 18:24	0° ∀		morning max er	8697 Jan 04 00:01	0°る	17 17 17
	8090 FC0 17 18.24	0 /		mamina aat	8697 Jan 17 20:43	22°る19'26	
	0000 E 1 10 01 21	201/04/40	0052114	morning set			
superior conj	8696 Feb 19 01:31	2° H 04'48			8697 Jan 22 05:55	0°≈	
minimum elong	8696 Feb 18 19:27	1°) 40′28		desc. node	8697 Jan 28 08:36	10° ≈ 27'34	
max. Earth dist.	8696 Feb 23 13:07	9° ℋ 12'00	1.45108 AU				
evening rise	8696 Mar 06 02:23	27°) €09'34		superior conj	8697 Jan 29 14:34	12° ≈ 33'08	-0°09'12
	8696 Mar 07 22:49	0 ° $\mathbf{\Upsilon}$		minimum elong	8697 Jan 29 13:39	12° ≈ 29'18	0°08'53
greatest brilliancy	8696 Mar 20 20:54	19° Ƴ 27'11	-0.6m	behind sun begin	8697 Jan 29 05:57	11° ≈ 57′09	
	8696 Mar 28 11:38	9° 8		behind sun end	8697 Jan 29 21:20	13° ≈ 01'23	
evening max el	8696 Apr 01 18:01	4° 8 56'27	20°01'39	max. Earth dist.	8697 Feb 05 06:04	23° ≈ 26′07	1.43982 AU
asc. node	8696 Apr 04 22:02	7° 8 41'29			8697 Feb 09 09:09	0° ∀	
retrograde	8696 Apr 09 09:39	9° 8 21'54		evening rise	8697 Feb 13 14:14	6°) 33′52	
evening set	8696 Apr 13 05:15	7° 8 57'09		<i>5</i>	8697 Mar 01 06:35	0° Υ	
inferior conj	8696 Apr 18 13:29	1° 8 55'32	3°15'04	evening max el	8697 Mar 15 17:02	18° Υ 36'30	21°08'56
·	•			•		23° Y 29'23	21 06 30
minimum elong	8696 Apr 18 12:19	1° 8 59'30		asc. node	8697 Mar 22 19:08		
min. Earth dist.	8696 Apr 19 11:29	0° 8 41'14	0.67507 AU	retrograde	8697 Mar 24 08:07	23° Y 41'27	
_	8696 Apr 19 23:50	30° ₹ Υ		evening set	8697 Mar 28 13:23	22° Y 01'33	
morning rise	8696 Apr 23 19:06	25° Y 37'58		inferior conj	8697 Apr 02 20:35	15° Y 48'13	2°56'35
direct	8696 Apr 29 14:39	23° Y 02'18		minimum elong	8697 Apr 02 18:41	15° Y ′54'49	2°56'11
desc. node	8696 May 09 11:33	28° Y 15'54		min. Earth dist.	8697 Apr 03 05:13	15° Ƴ 18'15	0.68204 AU
	8696 May 11 06:41	0°8		morning rise	8697 Apr 07 23:45	9° Y 33'46	
morning max el	8696 May 11 08:43	0° 8 05'09	24°55'27	direct	8697 Apr 13 05:58	7° Y 14'51	
-	8696 Jun 02 19:48	0° I I		morning max el	8697 Apr 23 18:03	13° Ƴ 30'19	23°26'14
morning set	8696 Jun 16 08:29	22° Ⅱ 26'50		desc. node	8697 Apr 26 08:28	16° Ƴ 17'23	
max. Earth dist.	8696 Jun 19 23:16	28° I 59'17	1.36943 AU		8697 May 07 01:44	0°8	
	8696 Jun 20 12:25	0°95	1.505 15 110		8697 May 26 17:04	0°II	
	5070 Juli 20 12.23	· •			507, 11thy 20 17.04	v <u>н</u>	

morning set	8697 May 28 18:38	3° Ⅱ 27'06		desc. node	8698 Apr 13 05:23	5° Y 09′03	
max. Earth dist.	8697 Jun 01 19:07	10° Ⅲ 20′52	1.39172 AU		8698 Apr 30 15:32	0°B	
				morning set	8698 May 09 01:49	13° 8 11'35	
superior conj	8697 Jun 09 09:10	24° Ⅱ 02'04	-1°22'44	max. Earth dist.	8698 May 14 18:06	22° 8 29'34	1.41392 AU
minimum elong	8697 Jun 09 14:18	24° I I26'02		man. Darun dibu	8698 May 19 04:21	0°Ⅱ	1252110
minimum clong	8697 Jun 12 13:08	0°95	1 22 14		0090 May 19 04.21	υд	
					0.000 M 22 11 26	50T 45125	1050114
evening rise	8697 Jun 18 17:48	11°956'50		superior conj	8698 May 22 11:36	5° Ⅱ 45'25	
asc. node	8697 Jun 18 18:05	11° © 58'15		minimum elong	8698 May 22 17:30	6° Ⅱ 11'31	1°49'52
	8697 Jun 28 16:31	$0 ^{\circ} \Omega$		evening rise	8698 Jun 02 02:34	25° Ⅱ 05'02	
evening max el	8697 Jul 04 21:58	8° Ω 06'42	18°41'58		8698 Jun 04 18:28	0	
retrograde	8697 Jul 13 00:59	12° Ω 08'49		asc. node	8698 Jun 05 15:07	1° 5 34'28	
evening set	8697 Jul 15 01:42	11° Ω 54'37		evening max el	8698 Jun 18 06:09	20° © 47'02	18°13'46
inferior conj	8697 Jul 23 00:35	7° Ω 31'29	0°05'27	retrograde	8698 Jun 25 08:02	24°\$20'59	
minimum elong	8697 Jul 23 00:47	7° Ω 31'06	0°05'11	evening set	8698 Jun 27 16:10	23° © 58'20	
transit middle	8697 Jul 23 00:47	7° Ω 31'06	0°05'11	inferior conj	8698 Jul 04 19:42	19° © 14'22	1°31'53
transit begin	8697 Jul 22 21:19	7° Ω 37'33	0 00 11	minimum elong	8698 Jul 04 22:23	19°508'32	1°30'49
transit end	8697 Jul 23 04:15	7° Ω 24'38		min. Earth dist.	8698 Jul 08 04:46	16° © 19'18	0.59320 AU
							0.39320 AU
desc. node	8697 Jul 23 07:48	7° Ω 18'01	0.55011.477	desc. node	8698 Jul 10 04:50	14°5546'26	
min. Earth dist.	8697 Jul 26 06:06	5° Ω 08'13	0.57211 AU	morning rise	8698 Jul 12 01:30	13° © 34'13	
morning rise	8697 Jul 30 20:23	2° Ω 22'55		direct	8698 Jul 18 09:41	11° © 43'25	
direct	8697 Aug 05 12:56	1° Ω 03'08		morning max el	8698 Aug 01 18:26	19° © 33'04	27°32'25
morning max el	8697 Aug 19 20:48	8° Ω 33'53	26°31'40		8698 Aug 10 15:52	$0 { m ^o} \Omega$	
	8697 Sep 05 00:31	O° Mp			8698 Aug 28 18:37	0° m ⁄	
asc. node	8697 Sep 14 17:43	17° m 55′24		asc. node	8698 Sep 01 14:40	7° m 45'18	
morning set	8697 Sep 17 22:14	24° Mp 32'52		morning set	8698 Sep 02 05:37	9° ™ 03'23	
C	8697 Sep 20 10:56	0∘ ⊽		max. Earth dist.	8698 Sep 08 17:07	23° Mp 06'46	1.31619 AU
	0007 DVP = 0 0000						
superior conj	8697 Sep 24 20:02	9° £ 40'12	1°26'32	superior conj	8698 Sep 09 07:46	24° m 28'02	1°11'19
minimum elong	8697 Sep 24 18:03	9° ₽ 29'10	1°26'20	minimum elong	8698 Sep 09 05:31	24° m) 15'34	1°10'56
max. Earth dist.	•	10° £ 40'38	1.31769 AU	minimum ciong	-	ەد دا بارا تەت 0° ى	1 10 30
	8697 Sep 25 06:56		1.31/09 AU		8698 Sep 11 19:37		
evening rise	8697 Oct 01 17:11	24° £ 39'18		evening rise	8698 Sep 16 01:44	9° Ω 16'48	
	8697 Oct 04 07:12	0°M			8698 Sep 26 15:53	0°M	
desc. node	8697 Oct 19 06:28	26°M26'37		desc. node	8698 Oct 06 03:34	14° M 45'01	
	8697 Oct 21 17:12	0° ⊼		evening max el	8698 Oct 14 15:20	24°M34'26	26°08'29
evening max el	8697 Nov 01 16:32	13° ∡ *01′22	27°05'33		8698 Oct 22 01:48	0° ∡ 7	
retrograde	8697 Nov 15 14:04	20° ∡ 12'09		retrograde	8698 Oct 28 13:23	1° ∡ ³38′26	
evening set	8697 Nov 22 13:32	18° ∡ 03'41			8698 Nov 03 23:11	30°RM₊	
min. Earth dist.	8697 Nov 26 07:15	15° ∡ ¹21'44	0.60769 AU	evening set	8698 Nov 04 00:21	29°M58'33	
inferior conj	8697 Nov 29 10:19	12° ∡ ¹42'22	-3°47'48	min. Earth dist.	8698 Nov 08 04:18	27°M23'54	0.58683 AU
minimum elong	8697 Nov 29 17:19	12° ∡ 727′27	3°45'23	inferior conj	8698 Nov 11 08:01	25°M04'16	-4°50'31
morning rise	8697 Dec 06 23:29	7° ∡ 751'56		minimum elong	8698 Nov 11 15:09	24°M51'04	
direct	8697 Dec 09 04:09	7° ∡ ³32'43		morning rise	8698 Nov 19 08:15	20°M36'15	. 10 19
asc. node	8697 Dec 11 17:19	7° × 32 43		direct	8698 Nov 21 14:29	20°M19'10	
morning max el	8697 Dec 16 10:18	11° х 10'30	17°59'17	asc. node	8698 Nov 28 14:20	23°M14'02	
morning max er	8697 Dec 28 21:21	0°る	1/ 391/				10020156
				morning max el	8698 Nov 29 18:37	24°M17'44	18°30'56
morning set	8698 Jan 01 01:46	5° る 50'27			8698 Dec 04 11:31	0° ∡	
		_		morning set	8698 Dec 15 19:15	19° ∡ ′55'49	
superior conj	8698 Jan 11 04:57	24° る 13'28	0°29'46		8698 Dec 21 00:50	0°る	
minimum elong	8698 Jan 11 07:18	24° る 23'49	0°29'36				
	8698 Jan 14 12:45	0° ≈		superior conj	8698 Dec 24 17:14	6° る 56'14	1°00'17
desc. node	8698 Jan 15 05:33	1° ≈ 11'46		minimum elong	8698 Dec 24 20:35	7° る 11'47	1°00'02
max. Earth dist.	8698 Jan 18 18:52	7° ≈ 10'29	1.42301 AU	max. Earth dist.	8699 Jan 01 03:23	20° る 15'56	1.40253 AU
evening rise	8698 Jan 24 13:38	16° ≈ 33'46		desc. node	8699 Jan 02 02:33	21° る 55'50	
•	8698 Feb 02 06:18	0°) €		evening rise	8699 Jan 05 09:19	27° る 28'47	
	8698 Feb 24 07:08	0°Υ			8699 Jan 06 21:54	0° ≈	
evening max el	8698 Feb 26 11:08	2° Υ 18'12	22°25'24		8699 Jan 26 20:49	0° ∀	
retrograde	8698 Mar 08 04:54	8° Υ 04'29	22 23 24	evening max el	8699 Feb 09 01:53	16° ∺ 02'52	23045132
•		7° Υ 53'34		•		22°)(27'02	23 43 32
asc. node	8698 Mar 09 16:15			retrograde	8699 Feb 19 22:41		
evening set	8698 Mar 12 21:07	6°Υ09'27	2020/22	asc. node	8699 Feb 24 13:21	20°) (44'50	
inferior conj	8698 Mar 18 05:15	29°) (47'16	2°28'22	evening set	8699 Feb 25 02:57	20°) 17'33	
minimum elong	8698 Mar 18 03:01	29° ¥ 55′02	2°27'47	min. Earth dist.	8699 Mar 01 22:05	14°) (43′00	0.68309 AU
min. Earth dist.	8698 Mar 18 01:30	0° Y 00′19	0.68465 AU	inferior conj	8699 Mar 02 13:37	13°) 49′59	1°51'14
	8698 Mar 18 01:35	30° ₹ ₩		minimum elong	8699 Mar 02 11:31	13° ¥ 57'12	1°50'36
morning rise	8698 Mar 23 08:45	23°) ₹37′28		morning rise	8699 Mar 07 20:04	7°) 46′11	
direct	8698 Mar 28 01:04	21°) 39′39		direct	8699 Mar 11 22:48	6°) 10′50	
morning max el	8698 Apr 06 06:07	27°) €02'47	21°58'03	morning max el	8699 Mar 20 00:33	10°) 46′55	20°38'21
-	8698 Apr 08 24:00	$0^{\circ}\mathbf{\Upsilon}$		desc. node	8699 Mar 31 02:19	24°) 37'19	
	1						

	8699 Apr 03 20:33	0°Υ			8700 Mar 07 17:04	0°) {	
morning set	8699 Apr 18 08:11	21°Υ50'05		greatest brilliancy	8700 Mar 15 20:47	11°) 24'48	-0.7m
	8699 Apr 23 12:57	0°8		desc. node	8700 Mar 17 23:16	14°) (32'33	
max. Earth dist.	8699 Apr 27 00:25	_	1.43319 AU	morning set	8700 Mar 28 06:10	0° Υ 12'57	
	1	_		Ü	8700 Mar 28 02:49	$0^{\circ}\Upsilon$	
superior conj	8699 May 03 15:06	16° 8 26'25	-2°08'24	max. Earth dist.	8700 Apr 09 13:22	19° Y 23'38	1.44722 AU
minimum elong	8699 May 03 18:45	16° 8 41'42	2°08'24		•		
	8699 May 11 13:30	$\Pi^{\circ}0$		superior conj	8700 Apr 13 18:01	26° Y ′04'09	-2°10'54
evening rise	8699 May 15 19:40	7° Ⅱ 28'17		minimum elong	8700 Apr 13 15:26	25° Y 53'49	2°10'56
asc. node	8699 May 23 12:10	20° Ⅲ 50′55			8700 Apr 16 04:38	9° 8	
	8699 May 29 11:14	0 \circ \odot		evening rise	8700 Apr 27 16:25	18° 8 57'10	
evening max el	8699 Jun 01 18:36	3° © 52'47	18°05'11		8700 May 04 06:51	Π $^{\circ}0$	
retrograde	8699 Jun 08 07:00	7° © 14'26		asc. node	8700 May 10 09:15	9° Ⅱ 41′02	
evening set	8699 Jun 10 22:40	6° © 40'33		evening max el	8700 May 16 08:00	17° Ⅱ 15'32	18°15'24
inferior conj	8699 Jun 17 10:02	1° 5 36'40	2°30'46	retrograde	8700 May 22 17:14	20° ∏ 39′18	
minimum elong	8699 Jun 17 12:55	1° 5 29'25	2°29'51	evening set	8700 May 25 16:11	19° ∏ 52′25	
	8699 Jun 19 00:21	30°R Ⅱ		inferior conj	8700 May 31 15:27	14° Ⅱ 30′25	3°05'24
min. Earth dist.	8699 Jun 20 11:40	28° Ⅲ 33'15	0.61571 AU	minimum elong	8700 May 31 17:23	14° Ⅱ 24'59	3°04'54
morning rise	8699 Jun 24 01:00	25° Ⅱ 34'55		min. Earth dist.	8700 Jun 03 03:58	11° Ⅱ 40'40	0.63693 AU
desc. node	8699 Jun 27 01:54	23° Ⅱ 56′59		morning rise	8700 Jun 06 17:17	8° Ⅱ 16′56	
direct	8699 Jun 30 17:36	23° Ⅱ 15'52		direct	8700 Jun 13 10:55	5° Ⅱ 38'14	
	8699 Jul 13 15:07	0 \circ		desc. node	8700 Jun 13 22:56	5° Ⅱ 39′02	
morning max el	8699 Jul 14 22:48	1° © 16'28	27°55'51	morning max el	8700 Jun 27 07:40	13° Ⅱ 40′34	27°41'31
	8699 Aug 04 21:35	0 $^{\circ}\Omega$			8700 Jul 10 11:07	0ಂತಾ	
morning set	8699 Aug 17 08:01	23° Ω 16′30			8700 Jul 28 11:28	$0^{\circ}\Omega$	
asc. node	8699 Aug 19 11:37	27° Ω 44'52		morning set	8700 Aug 01 03:11	7° Ω 05'58	
	8699 Aug 20 13:06	0°Щ		max. Earth dist.	8700 Aug 06 03:00	17° Ω 20′21	1.32728 AU
max. Earth dist.	8699 Aug 23 01:09	5° TD 23'50	1.31935 AU	asc. node	8700 Aug 06 08:35	17° Ω 49'51	
superior conj	8699 Aug 24 17:56	9° m 07'02	0°51'15	superior conj	8700 Aug 09 00:41	23° Ω 31'53	0°26'45
minimum elong	8699 Aug 24 17:55	8° Mp 55'56	0°50'47	minimum elong	8700 Aug 09 00.41 8700 Aug 08 23:26	23° Ω 25'09	0°26'22
evening rise	8699 Aug 31 12:45	23° Mp 58'10	0 3047	minimum ciong	8700 Aug 08 23:20 8700 Aug 12 00:22	0°m	0 2022
evening rise	8699 Sep 03 09:29	0° ي 0° ي		evening rise	8700 Aug 12 00:22 8700 Aug 16 00:22	8°M)37'56	
	8699 Sep 21 09:56	0°M		evening rise	8700 Aug 27 01:34	0∘ ⊽	
desc. node	8699 Sep 23 00:41	1°M54'29		evening max el	8700 Sep 07 17:06	0 — 15° Ω 30'42	23°04'54
evening max el	8699 Sep 26 06:01	5°M17'19	24°43'38	desc. node	8700 Sep 07 17:00 8700 Sep 09 21:47	17° ⊆ 29'10	25 04 54
retrograde	8699 Oct 10 01:32	12°M14'14	21 1330	retrograde	8700 Sep 21 01:35	22° £ 11'00	
evening set	8699 Oct 15 11:06	11°M09'02		evening set	8700 Sep 24 23:22	21° £ 37'36	
min. Earth dist.	8699 Oct 20 17:09	8°M23'11	0.56768 AU	min. Earth dist.	8700 Oct 02 02:03	18° £ 22'17	0.55335 AU
inferior conj	8699 Oct 23 09:38	6°M39'36		inferior conj	8700 Oct 03 15:46	17° £ 27'37	
minimum elong	8699 Oct 23 13:02	6° ™ 34'07		minimum elong	8700 Oct 03 11:44	17° ≏ 33'29	
morning rise	8699 Oct 31 17:10	2°M34'10		morning rise	8700 Oct 12 02:10	13° ≏ 37'34	
direct	8699 Nov 03 06:06	2°M16'20		direct	8700 Oct 15 02:34	13° ≏ 16'04	
morning max el	8699 Nov 12 16:58	6°M45'23	19°24'29	morning max el	8700 Oct 26 02:40	18° ≏ 25'34	20°40'26
asc. node	8699 Nov 15 11:20	9°M45'16		asc. node	8700 Nov 02 08:20	27° ≏ 18'10	
	8699 Nov 27 16:04	0°⊀			8700 Nov 04 01:45	0°M	
morning set	8699 Nov 29 21:05	4° ₹ 23'04		morning set	8700 Nov 14 04:19	19°M03'43	
					8700 Nov 19 10:46	0° ∡ ″	
superior conj	8699 Dec 07 22:15	20° ₹ 26'21	1°21'50				
minimum elong	8699 Dec 08 01:08	20° х 40′26	1°21'44	superior conj	8700 Nov 21 15:21	4° ∡ °30′23	1°35'01
	8699 Dec 12 22:32	0°ප		minimum elong	8700 Nov 21 17:05	4° ∡ °39'17	1°35'06
max. Earth dist.	8699 Dec 14 09:15	2° る 40'04	1.38072 AU	max. Earth dist.	8700 Nov 26 16:58	14° ∡ ³36′39	1.36014 AU
evening rise	8699 Dec 18 02:43	9° る 20'58		evening rise	8700 Nov 30 15:22	22° ₹ 03'53	
desc. node	8699 Dec 19 23:34	12° る 35'41			8700 Dec 05 01:17	0° ප	
	8699 Dec 30 17:22	0° ≈		desc. node	8700 Dec 06 20:36	3° る 07'02	
evening max el	8700 Jan 22 15:05	29° ≈ 50'05	25°02'59		8700 Dec 24 13:04	0°≈	
	8700 Jan 22 19:08	0° ∀		evening max el	8701 Jan 05 04:11	13° ≈ 36'34	26°10'39
retrograde	8700 Feb 03 12:31	6°) 44′20		retrograde	8701 Jan 17 21:28	20° ≈ 49'39	
evening set	8700 Feb 09 05:20	4°) €22'09		evening set	8701 Jan 24 02:33	18° ≈ 18'13	
asc. node	8700 Feb 11 10:27	2°) (09'34		min. Earth dist.	8701 Jan 28 07:28	13° ≈ 52'47	0.66806 AU
	8700 Feb 13 05:06	30° R ≈		asc. node	8701 Jan 29 07:34	12° ≈ 38'40	
min. Earth dist.	8700 Feb 13 16:49	29° ≈ 22'12	0.67749 AU	inferior conj	8701 Jan 29 22:04	11° ≈ 53'46	0°12'02
inferior conj	8700 Feb 14 19:53	27°≈53'32	1°05'42	minimum elong	8701 Jan 29 21:44	11°≈54'46	0°12'03
minimum elong	8700 Feb 14 18:23	27°≈58'27	1°05'14	transit middle	8701 Jan 29 21:44	11°≈54'46	0°12'03
morning rise	8700 Feb 20 07:44	21°≈57'14		transit begin	8701 Jan 29 19:51	12°≈00'38	
direct	8700 Feb 23 21:51	20°≈43'14	10021152	transit end	8701 Jan 29 23:38	11°≈48'54	
morning max el	8700 Mar 03 03:00	24° ≈ 43'36	19°31'53	morning rise	8701 Feb 04 17:39	6° ≈ 06'48	

direct	8701 Feb 07 20:38	5°≈11'22			8702 Jan 09 22:07	30°Rる	
morning max el	8701 Feb 14 12:41	8°≈48'21	18°40'59	min. Earth dist.	8702 Jan 11 15:49	28°る09'01	0.65504 AU
morning max or	8701 Mar 01 18:47	0° ∀	10 1035	inferior conj	8702 Jan 13 18:00	25° ♂ 46'14	
desc. node	8701 Mar 04 20:12	4°) 47′05		minimum elong	8702 Jan 13 19:26	25° る 42'09	0°48'20
morning set	8701 Mar 07 19:49	9°) €28'10		asc. node	8702 Jan 16 04:38	23° る 06'30	
8	8701 Mar 20 22:17	$0^{\circ}\Upsilon$		morning rise	8702 Jan 19 23:29	20° ට 11'00	
max. Earth dist.	8701 Mar 23 06:44	3° Y 40'56	1.45457 AU	direct	8702 Jan 22 17:10	19° る 30'27	
				morning max el	8702 Jan 29 03:34	22° る 55'20	18°06'43
superior conj	8701 Mar 24 02:36	4° Υ 58'42	-1°53'23	Ü	8702 Feb 03 20:17	0° ≈	
minimum elong	8701 Mar 23 17:50	4° Ƴ 24'25	1°52'44	morning set	8702 Feb 16 14:19	20°≈11'18	
evening rise	8701 Apr 08 13:37	29° Y 26'45		desc. node	8702 Feb 19 17:08	25°≈15'37	
•	8701 Apr 08 21:55	9° 8			8702 Feb 22 15:28	0°) €	
greatest brilliancy	8701 Apr 16 04:07	11° 8 36'56	-0.9m				
asc. node	8701 Apr 27 06:20	27° 8 55'42		superior conj	8702 Mar 03 09:21	13° ¥ 55'58	-1°18'06
	8701 Apr 29 01:09	$\Pi^{\circ}0$		minimum elong	8702 Mar 03 00:41	13°) €21'46	1°17'01
evening max el	8701 Apr 29 19:31	0° Ⅱ 47'58	18°43'39	max. Earth dist.	8702 Mar 06 02:24	18° ∺ 11'37	1.45456 AU
retrograde	8701 May 06 10:28	4° Ⅱ 26'42			8702 Mar 13 16:02	$0^{\circ}\Upsilon$	
evening set	8701 May 09 16:56	3° Ⅱ 25'36		evening rise	8702 Mar 19 13:14	9° Ƴ 07'42	
	8701 May 13 11:30	30° ₹ 8		greatest brilliancy	8702 Apr 01 06:59	28° Y 40'52	-0.7m
inferior conj	8701 May 15 07:54	27° 8 47'08	3°20'41		8702 Apr 02 04:12	9° 8	
minimum elong	8701 May 15 08:32	27° 8 45'13	3°20'29	evening max el	8702 Apr 13 03:06	14° 8 25'44	19°28'46
min. Earth dist.	8701 May 17 05:17	25° 8 27'32	0.65510 AU	asc. node	8702 Apr 14 03:25	15° 8 24'26	
morning rise	8701 May 20 23:26	21° 8 29'02		retrograde	8702 Apr 20 07:37	18° 8 30'54	
direct	8701 May 27 11:52	18° 8 42'34		evening set	8702 Apr 23 22:12	17° 8 14'53	
desc. node	8701 May 31 19:57	19° 8 44'14		inferior conj	8702 Apr 29 08:07	11° 8 21'19	
morning max el	8701 Jun 09 18:04	26° 8 33'36	26°54'31	minimum elong	8702 Apr 29 07:31	11° 8 23'17	3°20'33
	8701 Jun 12 22:41	$\Pi^{\circ}0$		min. Earth dist.	8702 Apr 30 14:23	9° 8 41'51	0.66917 AU
	8701 Jul 04 01:48	0 \circ \odot		morning rise	8702 May 04 16:29	5° 8 02'59	
morning set	8701 Jul 15 12:02	20° © 22'53		direct	8702 May 10 19:11	2° 8 20'31	
max. Earth dist.	8701 Jul 19 19:05	28°5548'42	1.34010 AU	desc. node	8702 May 18 16:57	5° 8 43'47	
	8701 Jul 20 09:13	0 $^{\circ}$ Ω		morning max el	8702 May 23 04:00	9° 8 44'40	25°43'20
		0			8702 Jun 08 03:44	0°Щ	
superior conj	8701 Jul 24 01:48	7° Ω 36'02			8702 Jun 26 15:39	0°95	
minimum elong	8701 Jul 24 01:54	7° Ω 36'29	0°01'44	morning set	8702 Jun 28 06:43	2°956'57	1.055566.133
behind sun begin	8701 Jul 23 20:14	7° Ω 06'52		max. Earth dist.	8702 Jul 02 00:22	9° © 55'08	1.35766 AU
behind sun end	8701 Jul 24 07:34	8° Ω 06'09			0702 1 1 07 10 20	210€12122	0022140
asc. node	8701 Jul 24 05:35	7° £ 55'46		superior conj	8702 Jul 07 18:39	21°©12'32	
evening rise	8701 Jul 31 10:37	23° Ω 09'59		minimum elong	8702 Jul 07 20:36 8702 Jul 11 02:32	21°922'21	0°32'30
arranina marral	8701 Aug 03 18:13 8701 Aug 20 09:34	0° Т ұ 25° Т ұ 50'31	21920106	asc. node	8702 Jul 11 02:32 8702 Jul 12 02:10	27° © 58'35 0° Ω	
evening max el	8701 Aug 25 18:27	ე∘ ი	21 29 00	evening rise	8702 Jul 12 02:10 8702 Jul 15 17:26	7° Ω 28'34	
desc. node	8701 Aug 27 18:53	0° ⊆ 57'48		evening rise	8702 Jul 28 02:12	0° M)	
retrograde	8701 Sep 01 15:25	1° ⊆ 54'49		evening max el	8702 Aug 02 14:04	6° Mp 45'09	20°08'09
evening set	8701 Sep 04 04:55	1° ⊆ 39'49		retrograde	8702 Aug 13 04:31	11° m 59'32	20 00 0)
e venning see	8701 Sep 09 01:28	30°R, My		desc. node	8702 Aug 14 16:00	11° m 53'50	
inferior conj	8701 Sep 13 09:35	27° m 42'13	-4°34'03	evening set	8702 Aug 15 02:41	11° m 49'57	
minimum elong	8701 Sep 13 00:11	27° m 55'23	4°31'47	inferior conj	8702 Aug 24 04:24	7° m 51'19	-2°52'01
min. Earth dist.	8701 Sep 13 10:33	27° m/40'51	0.54683 AU	minimum elong	8702 Aug 23 20:39	8° m 02'49	
morning rise	8701 Sep 21 20:19	23° m 51'23		min. Earth dist.	8702 Aug 25 20:39	6° m 51'32	
direct	8701 Sep 25 11:51	23° m/22'32		morning rise	8702 Sep 01 13:24	3° m 39'42	
morning max el	8701 Oct 07 23:49	29° m) 18'12	22°15'55	direct	8702 Sep 05 22:53	2° m 57'51	
Ç	8701 Oct 08 17:15	0∘ ⊽		morning max el	8702 Sep 19 12:59	9° m 36'54	24°01'54
asc. node	8701 Oct 20 05:19	15° ≏ 38'57			8702 Oct 04 13:29	0∘ ⊽	
	8701 Oct 27 18:11	0° M		asc. node	8702 Oct 07 02:16	4° £ 35'15	
morning set	8701 Oct 29 14:44	3°M51'51		morning set	8702 Oct 14 02:25	18° ≙ 41'18	
					8702 Oct 19 07:44	0° M	
superior conj	8701 Nov 05 16:55	18°M58'00	1°40'43				
minimum elong	8701 Nov 05 17:21	19°ML00'18	1°40'53	superior conj	8702 Oct 21 00:03	3°M39'37	1°39'49
max. Earth dist.	8701 Nov 09 07:41	26° MJ $30'24$	1.34271 AU	minimum elong	8702 Oct 20 23:18	3°M35'34	1°39'54
	8701 Nov 11 00:59	0°⊀		max. Earth dist.	8702 Oct 23 06:51	8°M35'20	1.32941 AU
evening rise	8701 Nov 13 19:27	5° ≯ 28'11		evening rise	8702 Oct 28 11:10	19°M23'01	
desc. node	8701 Nov 23 17:38	23° ≯ 25′02			8702 Nov 02 22:35	0°⊀	
	8701 Nov 27 18:35	0°ರ		desc. node	8702 Nov 10 14:40	13° ≯ 22'44	
evening max el	8701 Dec 18 17:32	27° る 15'41	27°01'08		8702 Nov 21 22:13	0°రె	
	8701 Dec 21 19:45	0° ≈		evening max el	8702 Dec 01 05:50	10° る 34'59	27°27'18
retrograde	8702 Jan 01 00:40	4° ≈ 36′00		retrograde	8702 Dec 14 21:11	17° る 54'09	
evening set	8702 Jan 07 16:36	2°≈00′26		evening set	8702 Dec 21 21:00	15° る 21'32	

min. Earth dist.	8702 Dec 25 15:34 8702 Dec 28 05:07	9° පි 23'50		evening set min. Earth dist.	8703 Dec 04 12:37 8703 Dec 08 04:59	28° ⊀ 14'41 25° ⊀ 22'18	0.61959 AU
minimum elong	8702 Dec 28 08:47	9°る14'23 4°る27'18	1°54'52	inferior conj	8703 Dec 11 04:23	22° х 39'04	
asc. node	8703 Jan 03 01:43 8703 Jan 03 22:20	4°る2718 4°る3'28		minimum elong morning rise	8703 Dec 11 10:22 8703 Dec 18 10:21	22° х 25'22 17° х 37'01	3°05'06
morning rise direct	8703 Jan 06 08:50	4 003 28 3° る 33'59		direct	8703 Dec 18 10.21 8703 Dec 20 16:16	17 x 3701 17° x 15'00	
morning max el	8703 Jan 12 20:49	5 3 55539	17°49'34	asc. node	8703 Dec 20 10:10	17 × 15 00	
morning max ci	8703 Jan 28 04:53	0°≈	17 4754	morning max el	8703 Dec 27 13:23	20°×7'44'22	17°50'20
morning set	8703 Jan 29 12:28	2°≈14'57		morning mun vi	8704 Jan 03 12:13	0°る	1, 5020
desc. node	8703 Feb 06 14:02	15°≈53'02		morning set	8704 Jan 12 08:01	15° る 19'28	
				Ü	8704 Jan 20 14:37	0° ≈	
superior conj	8703 Feb 11 08:15	23° ≈ 42'43	-0°34'17				
minimum elong	8703 Feb 11 04:27	23° ≈ 27'17	0°33'36	superior conj	8704 Jan 23 08:13	4° ≈ 42'19	0°08'16
	8703 Feb 15 05:50	0° ∀		minimum elong	8704 Jan 23 09:00	4° ≈ 45'38	0°08'19
max. Earth dist.	8703 Feb 16 21:29	2°) € 37'54	1.44717 AU	behind sun begin	8704 Jan 23 01:33	4° ≈ 13'49	
evening rise	8703 Feb 27 01:02	18° ∺ 27'19		behind sun end	8704 Jan 23 16:28	5° ≈ 17'24	
	8703 Mar 06 15:28	0 ° Υ		desc. node	8704 Jan 24 10:57	6° ≈ 35'50	
evening max el	8703 Mar 27 05:21	28° Y 05′19	20°28'51	max. Earth dist.	8704 Jan 30 13:15	16° ≈ 42'32	1.43330 AU
	8703 Mar 29 06:31	0°8		evening rise	8704 Feb 06 16:12	28° ≈ 02'55	
asc. node	8703 Apr 01 00:31	1° 8 53'41			8704 Feb 07 22:19	0° ∀	
retrograde	8703 Apr 04 06:09	2° 8 46'28			8704 Feb 28 09:59	0° Υ	
evening set	8703 Apr 08 05:50	1° 8 15'06		evening max el	8704 Mar 09 02:02	11° Υ 45'32	21°40'36
	8703 Apr 09 15:26	30°RƳ	2000125	asc. node	8704 Mar 17 21:38	17° ℃ 07'49	
inferior conj	8703 Apr 13 13:22	25°Υ08'17 25°Υ13'32	3°08'27 3°08'10	retrograde	8704 Mar 18 04:09	17° Υ 08'11 15° Υ 21'34	
minimum elong	8703 Apr 13 11:50	25° \ \bigvert 13'32 \\ 24° \bigvert 13'03	0.67866 AU	evening set	8704 Mar 22 14:00	9° Υ 03'53	2°45'45
min. Earth dist.	8703 Apr 14 05:30 8703 Apr 18 17:37	18° Υ 52'07	0.07800 AU	inferior conj	8704 Mar 27 21:22 8704 Mar 27 19:16	9° Υ 11'11	2°45'45 2°45'15
morning rise direct	8703 Apr 24 07:41	16° Υ 22'58		minimum elong min. Earth dist.	8704 Mar 28 00:32	8° Υ 52'51	0.68368 AU
morning max el	8703 May 05 13:10	23°Υ05'59	24°17'55	morning rise	8704 Apr 02 00:22	2° Υ 51'23	0.06306 AU
desc. node	8703 May 05 13:55	23° Υ '07'54	24 17 33	direct	8704 Apr 07 00:34	0° Υ 41'25	
dese. Hode	8703 May 11 15:13	0°8		morning max el	8704 Apr 16 23:24	6° Υ 34'31	22°48'06
	8703 Jun 01 12:13	0°II		desc. node	8704 Apr 21 10:51	11° Y '32'46	22 .0 00
morning set	8703 Jun 10 06:21	14° ∏ 35'44			8704 May 05 02:18	0°8	
max. Earth dist.	8703 Jun 13 22:19	21° Ⅱ 04'32	1.37880 AU	morning set	8704 May 21 05:24	25° 8 04'39	
	8703 Jun 18 18:36	0 \circ \odot			8704 May 24 04:11	Π $^{\circ}0$	
				max. Earth dist.	8704 May 25 19:11	2° Ⅱ 45'40	1.40135 AU
superior conj	8703 Jun 20 23:56	4° © 13'30	-1°04'48				
minimum elong	8703 Jun 21 04:00	4° 5 33'00	1°04'21	superior conj	8704 Jun 02 13:27	16° Ⅱ 27'54	
asc. node	8703 Jun 27 23:31	17° © 54'59		minimum elong	8704 Jun 02 19:10	16° Ⅱ 53'56	1°34'41
evening rise	8703 Jun 29 18:21	21° 5 27'20			8704 Jun 09 19:40	ი _ა ფ	
	8703 Jul 04 03:47	$0^{\circ}\Omega$		evening rise	8704 Jun 12 10:08	4° © 56'53	
evening max el	8703 Jul 16 07:40	18° Ω 25'06	19°07'19	asc. node	8704 Jun 13 20:32	7° © 40'00	
retrograde	8703 Jul 25 06:15	22° Ω 50'48			8704 Jun 27 17:47	0°Ω	10027127
evening set	8703 Jul 27 03:47	22° Ω 39'39 20° Ω 24'57		evening max el	8704 Jun 28 11:36 8704 Jul 06 02:42	0°Ω45'46 4°Ω34'24	18°27'27
desc. node inferior conj	8703 Aug 01 13:06 8703 Aug 04 13:54	18° Ω 27'00	0°55!52	retrograde evening set	8704 Jul 08 06:17	4°Ω17'07	
minimum elong	8703 Aug 04 11:29	18° Ω 31'08	0°55'04	inferior conj	8704 Jul 15 20:41	29° © 45'01	0°45'32
min. Earth dist.	8703 Aug 07 10:15	16° Ω 31'20	0.56192 AU	minimum elong	8704 Jul 15 22:16	29°5541'52	0°44'45
morning rise	8703 Aug 12 16:10	13° Ω 40'01	******		8704 Jul 15 13:10	30°Rூ	
direct	8703 Aug 17 21:22	12° Ω 36′50		desc. node	8704 Jul 18 10:12	27° © 42'13	
morning max el	8703 Sep 01 01:49	19° Ω 51'15	25°42'49	min. Earth dist.	8704 Jul 19 05:17	27° © 05'29	0.58067 AU
C	8703 Sep 09 17:33	0° m		morning rise	8704 Jul 23 10:47	24° © 21'33	
asc. node	8703 Sep 23 23:13	23° m 58'01		direct	8704 Jul 29 10:27	22°5548'54	
	8703 Sep 26 22:25	0∘ ⊽			8704 Aug 12 07:38	$0^{\circ}\Omega$	
morning set	8703 Sep 28 13:45	3° ₽ 27'23		morning max el	8704 Aug 12 19:48	0° Ω 29'15	27°01'50
					8704 Sep 02 18:22	0° ™	
superior conj	8703 Oct 05 10:29	18° ≏ 28'31	1°32'58	asc. node	8704 Sep 09 20:09	13° m 39'29	
minimum elong	8703 Oct 05 08:51	18° ≏ 19'28	1°32'53	morning set	8704 Sep 11 23:03	18° m 04'48	
max. Earth dist.	8703 Oct 06 12:49	20° £ 53'39	1.32063 AU		8704 Sep 17 10:34	0∘ ⊽	
	8703 Oct 10 17:37	0°M			07040 10 221	20 6 1 202	1000111
evening rise		3°M39'56		superior conj	8704 Sep 18 22:16	3° △ 18′06	1°20'41
	8703 Oct 12 11:26				07040 10 20 05		
daga # - J -	8703 Oct 26 16:29	0° ₹		minimum elong	8704 Sep 18 20:07	3° Ω 06'09	1°20'24
desc. node	8703 Oct 26 16:29 8703 Oct 28 11:44	0° ҂ 2° ҂ 751'40	27022105	max. Earth dist.	8704 Sep 18 22:22	3° ≏ 18'43	1°20'24 1.31645 AU
desc. node evening max el	8703 Oct 26 16:29 8703 Oct 28 11:44 8703 Nov 13 14:46	0° ₹ 2° ₹ 51'40 23° ₹ 21'07	27°23'05	•	8704 Sep 18 22:22 8704 Sep 25 17:34	3° £ 18'43 18° £ 11'18	
evening max el	8703 Oct 26 16:29 8703 Oct 28 11:44 8703 Nov 13 14:46 8703 Nov 23 18:18	0°♂ 2°♂51'40 23°♂21'07 0°♂	27°23'05	max. Earth dist. evening rise	8704 Sep 18 22:22 8704 Sep 25 17:34 8704 Oct 01 13:06	3° £ 18'43 18° £ 11'18 0° ™	
	8703 Oct 26 16:29 8703 Oct 28 11:44 8703 Nov 13 14:46	0° ₹ 2° ₹ 51'40 23° ₹ 21'07	27°23'05	max. Earth dist.	8704 Sep 18 22:22 8704 Sep 25 17:34	3° £ 18'43 18° £ 11'18	

evening max el	8704 Oct 25 17:40		26°45'09	retrograde	8705 Oct 21 10:51	23°M34'17	
retrograde	8704 Nov 08 15:40	12° ≯ 30'30		evening set	8705 Oct 27 12:20	22°M09'01	
evening set	8704 Nov 15 11:22	10° ∡ ³32'42		min. Earth dist.	8705 Nov 01 01:07	19° M 31'40	0.57819 AU
min. Earth dist.	8704 Nov 19 07:43	7° ∡ ¹56′09	0.59872 AU	inferior conj	8705 Nov 04 01:41	17° M 25'28	-5°11'39
inferior conj	8704 Nov 22 12:22	5° ∡ ¹22'47	-4°16'04	minimum elong	8705 Nov 04 07:48	17° M 14'48	5°10'31
minimum elong	8704 Nov 22 19:46	5° ∡ 07'55	4°13'50	morning rise	8705 Nov 12 05:36	13° ™ 07'21	
morning rise	8704 Nov 30 06:38	0° ∡ ¹42'05		direct	8705 Nov 14 13:49	12°M50'26	
direct	8704 Dec 02 11:19	0° ∡ ¹24'14		morning max el	8705 Nov 23 06:21	17° M 01'17	18°51'03
asc. node	8704 Dec 06 19:48	1° ∡ ³38'18		asc. node	8705 Nov 23 16:49	17° M 27'03	
morning max el	8704 Dec 10 01:49	4° √ 09'35	18°10'18		8705 Dec 02 13:50	0° √	
morning set	8704 Dec 25 18:56	29° √ 06'47	10 10 10	morning set	8705 Dec 09 16:22	13° ∡ 22'27	
morning sec	8704 Dec 26 06:15	0°る		morning sec	0703 BCC 07 10.22	15 7 2221	
	0704 Dec 20 00.15	٥ ٠		superior conj	8705 Dec 18 04:36	29° ₹ 56'08	1°10'29
aumorior comi	8705 Jan 04 08:37	16° る 51'39	0°43'47		8705 Dec 18 04:50	0° る 11'42	
superior conj		10 3 31 39	0°43'34	minimum elong		0 31142 0°る	1 10 18
minimum elong	8705 Jan 04 11:38		0-45-34	E 4 E 4	8705 Dec 18 05:25		1 20217 ATT
desc. node	8705 Jan 10 07:55	27° る 20'44		max. Earth dist.	8705 Dec 25 06:22		1.39317 AU
	8705 Jan 11 21:24	0° ≈		desc. node	8705 Dec 28 04:55	18° る 03'33	
max. Earth dist.	8705 Jan 11 23:55	0° ≈ 10′36	1.41453 AU	evening rise	8705 Dec 29 04:41	19° る 45'12	
evening rise	8705 Jan 16 23:38	8° ≈ 25'11			8706 Jan 04 09:46	0° ≈	
	8705 Jan 31 00:44	0°) €			8706 Jan 25 05:40	0° ∀	
evening max el	8705 Feb 19 18:21	25°) €28'23	22°59'22	evening max el	8706 Feb 02 08:16	9°) 14′46	24°19'19
	8705 Feb 25 06:09	0° Y		retrograde	8706 Feb 13 16:17	15° ¥ 53'17	
retrograde	8705 Mar 01 23:59	1° Y 32'16		evening set	8706 Feb 19 01:43	13° ¥ 38′23	
asc. node	8705 Mar 04 18:45	0° Ƴ 53'52		asc. node	8706 Feb 19 15:53	13°) €06'39	
	8705 Mar 06 06:26	30° ₹		min. Earth dist.	8706 Feb 23 17:29	8° ₩ 18'17	0.68114 AU
evening set	8705 Mar 06 21:09	29°) 30′55		inferior conj	8706 Feb 24 13:53	7°) €09'42	1°32'58
inferior conj	8705 Mar 12 06:10	23°) €05'41	2°13'43	minimum elong	8706 Feb 24 11:58	7° ¥ 16'10	1°32'23
minimum elong	8705 Mar 12 03:55	23°) 13'26	2°13'05	morning rise	8706 Mar 01 22:18	1° ¥ 08'36	
min. Earth dist.	8705 Mar 11 21:19	23° H 36'20	0.68444 AU	morning rise	8706 Mar 04 01:07	30°R≈	
morning rise	8705 Mar 17 10:36	16° ¥ 58'06	0.00111710	direct	8706 Mar 05 19:31	29° ≈ 42'28	
direct	8705 Mar 21 20:56	15° X 10'00		direct	8706 Mar 07 15:27	0°)	
		20° H 12'37	21022144	morning may al	8706 Mar 13 11:38	4°) € 02'06	20000112
morning max el	8705 Mar 30 13:58	20 π 1237	21 22 44	morning max el			20 08 13
	8705 Apr 07 19:11			desc. node	8706 Mar 26 04:42	20°) €23'01	
desc. node	8705 Apr 08 07:47	0° Y 41′59			8706 Apr 01 16:55	0°Υ	
	8705 Apr 28 07:10	0°8		morning set	8706 Apr 10 01:02	12° Y 41'58	
morning set	8705 May 01 01:08	4° 8 18'42		max. Earth dist.	8706 Apr 20 05:30	28° Y 41′08	1.43994 AU
max. Earth dist.	8705 May 07 20:39	15° 8 17'11	1.42261 AU		8706 Apr 21 01:12	0° 8	
superior conj	8705 May 15 06:37	27° 8 45'54	-1°59'27	superior conj	8706 Apr 25 23:35	7° 8 59'49	-2°11'43
minimum elong	8705 May 15 12:04	28° 8 09'22	1°59'14	minimum elong	8706 Apr 26 01:00	8° 8 05'37	2°11'50
	8705 May 16 13:37	Π $^{\circ}0$		evening rise	8706 May 08 21:47	29° 8 48'35	
evening rise	8705 May 26 12:51	17° Ⅱ 47'38				—	
asc. node	,	1/ 11-7/30			8706 May 09 00:26	Π $^{\circ}0$	
	8705 May 31 17:35	27° I 108'53		asc. node	8706 May 09 00:26 8706 May 18 14:39	0°Щ 16° Д 15'19	
				asc. node evening max el	•		18°07'18
evening max el	8705 May 31 17:35	27° II 08'53	18°07'46		8706 May 18 14:39 8706 May 26 11:22	16° Ⅱ 15'19	18°07'18
•	8705 May 31 17:35 8705 Jun 02 08:48	27°∏08'53 0°©	18°07'46		8706 May 18 14:39	16°Ⅲ15'19 26°Ⅲ52'56	18°07'18
retrograde	8705 May 31 17:35 8705 Jun 02 08:48 8705 Jun 11 22:04	27°II08'53 0°© 13°©38'24 17°©05'16	18°07'46	evening max el	8706 May 18 14:39 8706 May 26 11:22 8706 May 31 06:18 8706 Jun 01 21:07	16°∏15'19 26°∏52'56 0°© 0°©13'27	18°07'18
retrograde evening set	8705 May 31 17:35 8705 Jun 02 08:48 8705 Jun 11 22:04 8705 Jun 18 16:59 8705 Jun 21 04:15	27°II08'53 0°S 13°S38'24 17°S05'16 16°S38'14		evening max el	8706 May 18 14:39 8706 May 26 11:22 8706 May 31 06:18 8706 Jun 01 21:07 8706 Jun 03 12:00	16°∏15'19 26°∏52'56 0°©	18°07'18
retrograde evening set inferior conj	8705 May 31 17:35 8705 Jun 02 08:48 8705 Jun 11 22:04 8705 Jun 18 16:59 8705 Jun 21 04:15 8705 Jun 28 00:29	27° I 08'53 0°© 13°©38'24 17°©05'16 16°©38'14 11°©45'56	2°00'06	evening max el retrograde evening set	8706 May 18 14:39 8706 May 26 11:22 8706 May 31 06:18 8706 Jun 01 21:07 8706 Jun 03 12:00 8706 Jun 04 15:58	16°∏15'19 26°∏52'56 0°© 0°©13'27 30°R∏ 29°∏34'09	
retrograde evening set inferior conj minimum elong	8705 May 31 17:35 8705 Jun 02 08:48 8705 Jun 11 22:04 8705 Jun 18 16:59 8705 Jun 21 04:15 8705 Jun 28 00:29 8705 Jun 28 03:27	27° I 08'53 0°5 13°538'24 17°505'16 16°538'14 11°545'56 11°539'01	2°00'06 1°59'00	evening max el retrograde evening set inferior conj	8706 May 18 14:39 8706 May 26 11:22 8706 May 31 06:18 8706 Jun 01 21:07 8706 Jun 03 12:00 8706 Jun 04 15:58 8706 Jun 10 21:43	16°∏15'19 26°∏52'56 0°© 0°©13'27 30°R∏ 29°∏34'09 24°∏22'35	2°48'05
retrograde evening set inferior conj minimum elong min. Earth dist.	8705 May 31 17:35 8705 Jun 02 08:48 8705 Jun 11 22:04 8705 Jun 18 16:59 8705 Jun 21 04:15 8705 Jun 28 00:29 8705 Jun 28 03:27 8705 Jul 01 07:32	27°¶08'53 0°© 13°©38'24 17°©05'16 16°©38'14 11°©45'56 11°©39'01 8°©44'02	2°00'06	evening max el retrograde evening set inferior conj minimum elong	8706 May 18 14:39 8706 May 26 11:22 8706 May 31 06:18 8706 Jun 01 21:07 8706 Jun 03 12:00 8706 Jun 04 15:58 8706 Jun 10 21:43 8706 Jun 11 00:17	16°用15'19 26°用52'56 0°勁 0°勁13'27 30°R用 29°用34'09 24°用22'35 24°用15'47	2°48'05 2°47'21
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8705 May 31 17:35 8705 Jun 02 08:48 8705 Jun 11 22:04 8705 Jun 18 16:59 8705 Jun 21 04:15 8705 Jun 28 00:29 8705 Jun 28 03:27 8705 Jul 01 07:32 8705 Jul 04 23:52	27°II 08'53 0°9 13°938'24 17°905'16 16°938'14 11°939'01 8°944'02 5°955'03	2°00'06 1°59'00	evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	8706 May 18 14:39 8706 May 26 11:22 8706 May 31 06:18 8706 Jun 01 21:07 8706 Jun 03 12:00 8706 Jun 04 15:58 8706 Jun 10 21:43 8706 Jun 11 00:17 8706 Jun 13 18:19	16° II 15'19 26° II 52'56 0° II 32'7 30° RII 29° II 34'09 24° II 22'35 24° II 15'47 21° II 22'29	2°48'05
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	8705 May 31 17:35 8705 Jun 02 08:48 8705 Jun 11 22:04 8705 Jun 18 16:59 8705 Jun 21 04:15 8705 Jun 28 00:29 8705 Jun 28 03:27 8705 Jul 01 07:32 8705 Jul 04 23:52 8705 Jul 05 07:17	27°II 08'53 0°S 13°S38'24 17°S05'16 16°S38'14 11°S45'56 11°S39'01 8°S44'02 5°S55'03 5°S43'41	2°00'06 1°59'00	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8706 May 18 14:39 8706 May 26 11:22 8706 May 31 06:18 8706 Jun 01 21:07 8706 Jun 03 12:00 8706 Jun 04 15:58 8706 Jun 10 21:43 8706 Jun 11 00:17 8706 Jun 13 18:19 8706 Jun 17 06:50	16°∏15'19 26°∏52'56 0°© 13'27 30°R∏ 29°∏34'09 24°∏22'35 24°∏15'47 21°∏22'29 18°∏15'03	2°48'05 2°47'21
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	8705 May 31 17:35 8705 Jun 02 08:48 8705 Jun 11 22:04 8705 Jun 18 16:59 8705 Jun 21 04:15 8705 Jun 28 00:29 8705 Jun 28 03:27 8705 Jul 01 07:32 8705 Jul 04 23:52 8705 Jul 05 07:17 8705 Jul 11 12:38	27°II 08'53 0°99 13°938'24 17°905'16 16°938'14 11°9345'56 11°939'01 8°934'02 5°955'03 5°943'41 3°955'08	2°00'06 1°59'00 0.60282 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	8706 May 18 14:39 8706 May 26 11:22 8706 May 31 06:18 8706 Jun 01 21:07 8706 Jun 03 12:00 8706 Jun 04 15:58 8706 Jun 10 21:43 8706 Jun 11 00:17 8706 Jun 13 18:19 8706 Jun 17 06:50 8706 Jun 22 04:20	16°∏15'19 26°∏52'56 0°© 0°©13'27 30°R∏ 29°∏34'09 24°∏22'35 24°∏15'47 21°∏22'29 18°∏15'03 15°∏57'01	2°48'05 2°47'21
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	8705 May 31 17:35 8705 Jun 02 08:48 8705 Jun 11 22:04 8705 Jun 18 16:59 8705 Jun 21 04:15 8705 Jun 28 00:29 8705 Jun 28 03:27 8705 Jul 01 07:32 8705 Jul 04 23:52 8705 Jul 05 07:17 8705 Jul 11 12:38 8705 Jul 25 20:30	27°II 08'53 0°S 13°S38'24 17°S05'16 16°S38'14 11°S45'56 11°S39'01 8°S44'02 5°S55'03 5°S43'41 3°S51'08 11°S47'18	2°00'06 1°59'00 0.60282 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	8706 May 18 14:39 8706 May 26 11:22 8706 May 31 06:18 8706 Jun 01 21:07 8706 Jun 03 12:00 8706 Jun 04 15:58 8706 Jun 10 21:43 8706 Jun 11 00:17 8706 Jun 13 18:19 8706 Jun 17 06:50 8706 Jun 22 04:20 8706 Jun 24 00:57	16° II 15'19 26° II 52'56 0° II 32'7 30° RII 29° II 34'09 24° II 22'25 24° II 15'47 21° II 22'29 18° II 15'03 15° II 57'01 15° II 46'04	2°48'05 2°47'21 0.62510 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	8705 May 31 17:35 8705 Jun 02 08:48 8705 Jun 11 22:04 8705 Jun 18 16:59 8705 Jun 21 04:15 8705 Jun 28 00:29 8705 Jun 28 03:27 8705 Jul 01 07:32 8705 Jul 04 23:52 8705 Jul 05 07:17 8705 Jul 11 12:38 8705 Jul 25 20:30 8705 Aug 09 04:05	27°I08'53 0°© 13°©38'24 17°©05'16 16°©38'14 11°©45'56 11°©39'01 8°©44'02 5°©55'03 5°©43'41 3°©51'08 11°©47'18 0°N	2°00'06 1°59'00 0.60282 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	8706 May 18 14:39 8706 May 26 11:22 8706 May 31 06:18 8706 Jun 01 21:07 8706 Jun 03 12:00 8706 Jun 04 15:58 8706 Jun 10 21:43 8706 Jun 11 00:17 8706 Jun 13 18:19 8706 Jun 17 06:50 8706 Jun 22 04:20 8706 Jun 24 00:57 8706 Jul 08 02:51	16° II 15'19 26° II 52'56 0° II 32'7 30° RII 29° II 34'09 24° II 22'25 24° II 15'47 21° II 22'29 18° II 15'03 15° II 57'01 15° II 46'04 23° II 48'25	2°48'05 2°47'21 0.62510 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	8705 May 31 17:35 8705 Jun 02 08:48 8705 Jun 11 22:04 8705 Jun 18 16:59 8705 Jun 21 04:15 8705 Jun 28 00:29 8705 Jun 28 03:27 8705 Jul 01 07:32 8705 Jul 04 23:52 8705 Jul 05 07:17 8705 Jul 11 12:38 8705 Jul 25 20:30 8705 Aug 09 04:05 8705 Aug 25 23:46	27° N 08'53 0° 9 13° 938'24 17° 905'16 16° 938'14 11° 945'56 11° 939'01 8° 944'02 5° 955'03 5° 943'41 3° 951'08 11° 947'18 0° N 0° M	2°00'06 1°59'00 0.60282 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	8706 May 18 14:39 8706 May 26 11:22 8706 May 31 06:18 8706 Jun 01 21:07 8706 Jun 03 12:00 8706 Jun 04 15:58 8706 Jun 10 21:43 8706 Jun 11 00:17 8706 Jun 13 18:19 8706 Jun 17 06:50 8706 Jun 22 04:20 8706 Jun 24 00:57 8706 Jul 08 02:51 8706 Jul 13 16:04	16° II 15'19 26° II 52'56 0° II 3'27 30° RII 29° II 34'09 24° II 22'25 24° II 15'47 21° II 22'29 18° II 15'03 15° II 57'01 15° II 46'04 23° II 48'25 0° II 5'	2°48'05 2°47'21 0.62510 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	8705 May 31 17:35 8705 Jun 02 08:48 8705 Jun 11 22:04 8705 Jun 18 16:59 8705 Jun 21 04:15 8705 Jun 28 00:29 8705 Jun 28 03:27 8705 Jul 01 07:32 8705 Jul 04 23:52 8705 Jul 05 07:17 8705 Jul 11 12:38 8705 Jul 25 20:30 8705 Aug 09 04:05 8705 Aug 25 23:46 8705 Aug 27 04:33	27° N 08'53 0° © 13° © 38'24 17° © 05'16 16° © 38'14 11° © 45'56 11° © 39'01 8° © 44'02 5° © 55'03 5° © 43'41 3° © 51'08 11° © 47'18 0° N 0° M 2° M 28'33	2°00'06 1°59'00 0.60282 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	8706 May 18 14:39 8706 May 26 11:22 8706 May 31 06:18 8706 Jun 01 21:07 8706 Jun 03 12:00 8706 Jun 04 15:58 8706 Jun 10 21:43 8706 Jun 11 00:17 8706 Jun 13 18:19 8706 Jun 17 06:50 8706 Jun 22 04:20 8706 Jun 24 00:57 8706 Jul 08 02:51 8706 Jul 13 16:04 8706 Aug 02 12:02	16°∏15'19 26°∏52'56 0°№ 0°№13'27 30°R∏ 29°∏34'09 24°∏22'35 24°∏15'47 21°∏22'29 18°∏15'03 15°∏57'01 15°∏46'04 23°∏48'25 0°№ 0°Ω	2°48'05 2°47'21 0.62510 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node	8705 May 31 17:35 8705 Jun 02 08:48 8705 Jun 11 22:04 8705 Jun 18 16:59 8705 Jun 21 04:15 8705 Jun 28 00:29 8705 Jun 28 03:27 8705 Jul 01 07:32 8705 Jul 04 23:52 8705 Jul 05 07:17 8705 Jul 11 12:38 8705 Jul 25 20:30 8705 Aug 09 04:05 8705 Aug 25 23:46 8705 Aug 27 04:33 8705 Aug 27 17:06	27° N 08'53 0° 9 13° 938'24 17° 905'16 16° 938'14 11° 945'56 11° 939'01 8° 944'02 5° 955'03 5° 943'41 3° 951'08 11° 947'18 0° N 0° M 2° M 28'33 3° M 34'03	2°00'06 1°59'00 0.60282 AU 27°46'59	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	8706 May 18 14:39 8706 May 26 11:22 8706 May 31 06:18 8706 Jun 01 21:07 8706 Jun 03 12:00 8706 Jun 04 15:58 8706 Jun 10 21:43 8706 Jun 11 00:17 8706 Jun 13 18:19 8706 Jun 17 06:50 8706 Jun 22 04:20 8706 Jun 24 00:57 8706 Jul 08 02:51 8706 Jul 13 16:04 8706 Aug 02 12:02 8706 Aug 11 04:12	16° \$\Pi\$15'19 26° \$\Pi\$52'56 0° \$\Sigma\$0° \$\Sigma\$13'27 30° \$\RII\$ 29° \$\Pi\$34'09 24° \$\Pi\$22'35 24° \$\Pi\$15'47 21° \$\Pi\$22'29 18° \$\Pi\$15'03 15° \$\Pi\$57'01 15° \$\Pi\$46'04 23° \$\Pi\$48'25 0° \$\Sigma\$ 0° \$\Rightarrow\$ 16° \$\Rightarrow\$32'53	2°48'05 2°47'21 0.62510 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	8705 May 31 17:35 8705 Jun 02 08:48 8705 Jun 11 22:04 8705 Jun 18 16:59 8705 Jun 21 04:15 8705 Jun 28 00:29 8705 Jun 28 03:27 8705 Jul 01 07:32 8705 Jul 04 23:52 8705 Jul 05 07:17 8705 Jul 11 12:38 8705 Jul 25 20:30 8705 Aug 09 04:05 8705 Aug 25 23:46 8705 Aug 27 04:33	27° N 08'53 0° © 13° © 38'24 17° © 05'16 16° © 38'14 11° © 45'56 11° © 39'01 8° © 44'02 5° © 55'03 5° © 43'41 3° © 51'08 11° © 47'18 0° N 0° M 2° M 28'33	2°00'06 1°59'00 0.60282 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	8706 May 18 14:39 8706 May 26 11:22 8706 May 31 06:18 8706 Jun 01 21:07 8706 Jun 03 12:00 8706 Jun 04 15:58 8706 Jun 10 21:43 8706 Jun 11 00:17 8706 Jun 13 18:19 8706 Jun 17 06:50 8706 Jun 22 04:20 8706 Jun 24 00:57 8706 Jul 08 02:51 8706 Jul 13 16:04 8706 Aug 02 12:02 8706 Aug 11 04:12 8706 Aug 14 14:04	16° Π15'19 26° Π52'56 0° © 0° © 13'27 30° R Π 29° Π34'09 24° Π22'35 24° Π15'47 21° Π22'29 18° Π15'03 15° Π46'04 23° Π46'04 23° Π48'25 0° © 0° Ω 16° Ω32'53 23° Ω36'52	2°48'05 2°47'21 0.62510 AU 27°54'03
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node	8705 May 31 17:35 8705 Jun 02 08:48 8705 Jun 11 22:04 8705 Jun 18 16:59 8705 Jun 21 04:15 8705 Jun 28 00:29 8705 Jun 28 03:27 8705 Jul 01 07:32 8705 Jul 04 23:52 8705 Jul 05 07:17 8705 Jul 11 12:38 8705 Jul 25 20:30 8705 Aug 09 04:05 8705 Aug 25 23:46 8705 Aug 27 04:33 8705 Aug 27 17:06	27° N 08'53 0° 9 13° 938'24 17° 905'16 16° 938'14 11° 945'56 11° 939'01 8° 944'02 5° 955'03 5° 943'41 3° 951'08 11° 947'18 0° N 0° M 2° M 28'33 3° M 34'03	2°00'06 1°59'00 0.60282 AU 27°46'59	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	8706 May 18 14:39 8706 May 26 11:22 8706 May 31 06:18 8706 Jun 01 21:07 8706 Jun 03 12:00 8706 Jun 04 15:58 8706 Jun 10 21:43 8706 Jun 11 00:17 8706 Jun 13 18:19 8706 Jun 17 06:50 8706 Jun 22 04:20 8706 Jun 24 00:57 8706 Jul 08 02:51 8706 Jul 13 16:04 8706 Aug 02 12:02 8706 Aug 11 04:12	16° \$\Pi\$15'19 26° \$\Pi\$52'56 0° \$\Sigma\$0° \$\Sigma\$13'27 30° \$\RII\$ 29° \$\Pi\$34'09 24° \$\Pi\$22'35 24° \$\Pi\$15'47 21° \$\Pi\$22'29 18° \$\Pi\$15'03 15° \$\Pi\$57'01 15° \$\Pi\$46'04 23° \$\Pi\$48'25 0° \$\Sigma\$ 0° \$\Rightarrow\$ 16° \$\Rightarrow\$32'53	2°48'05 2°47'21 0.62510 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node	8705 May 31 17:35 8705 Jun 02 08:48 8705 Jun 11 22:04 8705 Jun 18 16:59 8705 Jun 21 04:15 8705 Jun 28 00:29 8705 Jun 28 03:27 8705 Jul 01 07:32 8705 Jul 04 23:52 8705 Jul 05 07:17 8705 Jul 11 12:38 8705 Jul 25 20:30 8705 Aug 09 04:05 8705 Aug 25 23:46 8705 Aug 27 04:33 8705 Aug 27 17:06	27° N 08'53 0° 9 13° 938'24 17° 905'16 16° 938'14 11° 945'56 11° 939'01 8° 944'02 5° 955'03 5° 943'41 3° 951'08 11° 947'18 0° N 0° M 2° M 28'33 3° M 34'03	2°00'06 1°59'00 0.60282 AU 27°46'59	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	8706 May 18 14:39 8706 May 26 11:22 8706 May 31 06:18 8706 Jun 01 21:07 8706 Jun 03 12:00 8706 Jun 04 15:58 8706 Jun 10 21:43 8706 Jun 11 00:17 8706 Jun 13 18:19 8706 Jun 17 06:50 8706 Jun 22 04:20 8706 Jun 24 00:57 8706 Jul 08 02:51 8706 Jul 13 16:04 8706 Aug 02 12:02 8706 Aug 11 04:12 8706 Aug 14 14:04	16° Π15'19 26° Π52'56 0° © 0° © 13'27 30° R Π 29° Π34'09 24° Π22'35 24° Π15'47 21° Π22'29 18° Π15'03 15° Π46'04 23° Π48'25 0° © 0° Ω 16° Ω32'53 23° Ω36'52	2°48'05 2°47'21 0.62510 AU 27°54'03
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.	8705 May 31 17:35 8705 Jun 02 08:48 8705 Jun 11 22:04 8705 Jun 18 16:59 8705 Jun 21 04:15 8705 Jun 28 00:29 8705 Jun 28 03:27 8705 Jul 01 07:32 8705 Jul 04 23:52 8705 Jul 05 07:17 8705 Jul 11 12:38 8705 Jul 25 20:30 8705 Aug 09 04:05 8705 Aug 25 23:46 8705 Aug 27 04:33 8705 Aug 27 17:06 8705 Sep 02 07:53	27° N 08'53 0° © 13° © 38'24 17° © 05'16 16° © 38'14 11° © 45'56 11° © 39'01 8° © 44'02 5° © 55'03 5° © 43'41 3° © 51'08 11° © 47'18 0° N 2° M 28'33 3° M 34'03 15° M 41'09	2°00'06 1°59'00 0.60282 AU 27°46'59	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	8706 May 18 14:39 8706 May 26 11:22 8706 May 31 06:18 8706 Jun 01 21:07 8706 Jun 03 12:00 8706 Jun 04 15:58 8706 Jun 10 21:43 8706 Jun 11 00:17 8706 Jun 13 18:19 8706 Jun 17 06:50 8706 Jun 22 04:20 8706 Jun 24 00:57 8706 Jul 08 02:51 8706 Jul 13 16:04 8706 Aug 02 12:02 8706 Aug 11 04:12 8706 Aug 14 14:04 8706 Aug 16 13:40	16° \$\Pi\$15'19 26° \$\Pi\$52'56 0° \$\Pi\$ 0° \$\Pi\$13'27 30° \$\RII\$ 29° \$\Pi\$34'09 24° \$\Pi\$22'35 24° \$\Pi\$15'47 21° \$\Pi\$22'29 18° \$\Pi\$15'03 15° \$\Pi\$57'01 15° \$\Pi\$46'04 23° \$\Pi\$48'25 0° \$\Pi\$ 0° \$\Omega\$ 16° \$\Omega\$32'53 23° \$\Omega\$36'52 27° \$\Omega\$50'44	2°48'05 2°47'21 0.62510 AU 27°54'03
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	8705 May 31 17:35 8705 Jun 02 08:48 8705 Jun 11 22:04 8705 Jun 18 16:59 8705 Jun 21 04:15 8705 Jun 28 00:29 8705 Jun 28 03:27 8705 Jul 01 07:32 8705 Jul 05 07:17 8705 Jul 11 12:38 8705 Jul 25 20:30 8705 Aug 09 04:05 8705 Aug 25 23:46 8705 Aug 27 04:33 8705 Aug 27 17:06 8705 Sep 02 07:53	27° \$\mathbb{\text{108'53}}\$ 0° \$\mathbb{\text{30'8'24}}\$ 17° \$\mathbb{\text{20'5'16}}\$ 16° \$\mathbb{\text{33'14}}\$ 11° \$\mathbb{\text{45'56}}\$ 11° \$\mathbb{\text{33'9'01}}\$ 8° \$\mathbb{\text{44'02}}\$ 5° \$\mathbb{\text{55'03}}\$ 5° \$\mathbb{\text{43'41}}\$ 3° \$\mathbb{\text{35'108}}\$ 11° \$\mathbb{\text{47'18}}\$ 0° \$\mathbb{\text{0}}\$ 2° \$\mathbb{\text{02'57}}\$ 18° \$\mathbb{\text{03'13'3}}\$ 15° \$\mathbb{\text{04'109}}\$	2°00'06 1°59'00 0.60282 AU 27°46'59 1.31693 AU 1°03'21	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	8706 May 18 14:39 8706 May 26 11:22 8706 May 31 06:18 8706 Jun 01 21:07 8706 Jun 03 12:00 8706 Jun 04 15:58 8706 Jun 10 21:43 8706 Jun 11 00:17 8706 Jun 13 18:19 8706 Jun 17 06:50 8706 Jun 22 04:20 8706 Jun 24 00:57 8706 Jul 08 02:51 8706 Jul 13 16:04 8706 Aug 02 12:02 8706 Aug 11 04:12 8706 Aug 14 14:04 8706 Aug 16 13:40	16° \$\Pi\$15'19 26° \$\Pi\$52'56 0° \$\Pi\$ 0° \$\Pi\$13'27 30° \$\RII\$ 29° \$\Pi\$34'09 24° \$\Pi\$22'35 24° \$\Pi\$15'47 21° \$\Pi\$22'29 18° \$\Pi\$15'03 15° \$\Pi\$57'01 15° \$\Pi\$46'04 23° \$\Pi\$48'25 0° \$\Pi\$ 0° \$\Omega\$ 16° \$\Omega\$32'53 23° \$\Omega\$36'52 27° \$\Omega\$50'44	2°48'05 2°47'21 0.62510 AU 27°54'03
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	8705 May 31 17:35 8705 Jun 02 08:48 8705 Jun 11 22:04 8705 Jun 18 16:59 8705 Jun 21 04:15 8705 Jun 28 00:29 8705 Jun 28 03:27 8705 Jul 01 07:32 8705 Jul 04 23:52 8705 Jul 05 07:17 8705 Jul 11 12:38 8705 Jul 25 20:30 8705 Aug 09 04:05 8705 Aug 25 23:46 8705 Aug 27 04:33 8705 Aug 27 17:06 8705 Sep 03 09:34 8705 Sep 03 07:21	27° N 08'53 0° 9 13° 938'24 17° 905'16 16° 938'14 11° 945'56 11° 939'01 8° 944'02 5° 955'03 5° 943'41 3° 951'08 11° 947'18 0° N 0° N 2° N 28'33 3° N 34'03 15° N 41'09 18° N 02'57 17° N 50'43	2°00'06 1°59'00 0.60282 AU 27°46'59 1.31693 AU 1°03'21	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.	8706 May 18 14:39 8706 May 26 11:22 8706 May 31 06:18 8706 Jun 01 21:07 8706 Jun 03 12:00 8706 Jun 04 15:58 8706 Jun 10 21:43 8706 Jun 11 00:17 8706 Jun 13 18:19 8706 Jun 17 06:50 8706 Jun 22 04:20 8706 Jun 24 00:57 8706 Jul 08 02:51 8706 Jul 13 16:04 8706 Aug 02 12:02 8706 Aug 11 04:12 8706 Aug 14 14:04 8706 Aug 16 13:40 8706 Aug 17 13:37	16° \$\Pi\$15'19 26° \$\Pi\$52'56 0° \$\Pi\$ 0° \$\Pi\$13'27 30° \$\Pi\$122'35 24° \$\Pi\$15'47 21° \$\Pi\$22'29 18° \$\Pi\$15'03 15° \$\Pi\$57'01 15° \$\Pi\$46'04 23° \$\Pi\$48'25 0° \$\Pi\$ 0° \$\Pi\$ 16° \$\Pi\$32'53 23° \$\Pi\$36'52 27° \$\Pi\$50'44 0° \$\Pi\$	2°48'05 2°47'21 0.62510 AU 27°54'03
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	8705 May 31 17:35 8705 Jun 02 08:48 8705 Jun 11 22:04 8705 Jun 18 16:59 8705 Jun 21 04:15 8705 Jun 28 00:29 8705 Jun 28 03:27 8705 Jul 01 07:32 8705 Jul 04 23:52 8705 Jul 05 07:17 8705 Jul 11 12:38 8705 Jul 25 20:30 8705 Aug 09 04:05 8705 Aug 25 23:46 8705 Aug 27 04:33 8705 Aug 27 17:06 8705 Sep 02 07:53 8705 Sep 03 09:34 8705 Sep 03 07:21 8705 Sep 08 19:43	27° N 08'53 0° 9 13° 938'24 17° 905'16 16° 938'14 11° 945'56 11° 939'01 8° 944'02 5° 955'03 5° 943'41 3° 951'08 11° 947'18 0° N 0° M 2° M 28'33 3° M 34'03 15° M 41'09 18° M 02'57 17° M 50'43 0° 9 2° 950'55	2°00'06 1°59'00 0.60282 AU 27°46'59 1.31693 AU 1°03'21	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.	8706 May 18 14:39 8706 May 26 11:22 8706 May 31 06:18 8706 Jun 01 21:07 8706 Jun 03 12:00 8706 Jun 04 15:58 8706 Jun 10 21:43 8706 Jun 11 00:17 8706 Jun 13 18:19 8706 Jun 17 06:50 8706 Jun 22 04:20 8706 Jun 24 00:57 8706 Jul 08 02:51 8706 Jul 13 16:04 8706 Aug 02 12:02 8706 Aug 11 04:12 8706 Aug 14 14:04 8706 Aug 16 13:40 8706 Aug 17 13:37	16° \$\Pi\$15'19 26° \$\Pi\$52'56 0° \$\Pi\$ 0° \$\Pi\$13'27 30° \$\Pi\$122'35 24° \$\Pi\$15'47 21° \$\Pi\$22'29 18° \$\Pi\$15'03 15° \$\Pi\$57'01 15° \$\Pi\$46'04 23° \$\Pi\$48'25 0° \$\Pi\$ 0° \$\Omega\$ 16° \$\Omega\$32'53 23° \$\Omega\$36'52 27° \$\Omega\$50'44 0° \$\Pi\$ 2° \$\Pi\$37'25	2°48'05 2°47'21 0.62510 AU 27°54'03 1.32212 AU 0°41'22
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	8705 May 31 17:35 8705 Jun 02 08:48 8705 Jun 11 22:04 8705 Jun 18 16:59 8705 Jun 21 04:15 8705 Jun 28 00:29 8705 Jun 28 03:27 8705 Jul 01 07:32 8705 Jul 04 23:52 8705 Jul 05 07:17 8705 Jul 11 12:38 8705 Jul 25 20:30 8705 Aug 09 04:05 8705 Aug 27 04:33 8705 Aug 27 04:33 8705 Aug 27 17:06 8705 Sep 02 07:53 8705 Sep 03 09:34 8705 Sep 03 07:21 8705 Sep 10 03:23 8705 Sep 24 13:42	27° N 08'53 0° 9 13° 938'24 17° 905'16 16° 938'14 11° 945'56 11° 939'01 8° 944'02 5° 955'03 5° 943'41 3° 951'08 11° 947'18 0° N 0° M 2° M 28'33 3° M 34'03 15° M 41'09 18° M 02'57 17° M 50'43 0° 9 2° 950'55 0° M	2°00'06 1°59'00 0.60282 AU 27°46'59 1.31693 AU 1°03'21	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.	8706 May 18 14:39 8706 May 26 11:22 8706 May 31 06:18 8706 Jun 01 21:07 8706 Jun 03 12:00 8706 Jun 04 15:58 8706 Jun 10 21:43 8706 Jun 11 00:17 8706 Jun 13 18:19 8706 Jun 17 06:50 8706 Jun 22 04:20 8706 Jun 24 00:57 8706 Jul 08 02:51 8706 Jul 13 16:04 8706 Aug 02 12:02 8706 Aug 11 04:12 8706 Aug 14 14:04 8706 Aug 16 13:40 8706 Aug 17 13:37 8706 Aug 18 18:34 8706 Aug 18 16:48 8706 Aug 25 14:55	16° M 15'19 26° M 52'56 0° 9 0° 9 13'27 30° 8 M 29° M 34'09 24° M 22'35 24° M 15'47 21° M 22'29 18° M 15'03 15° M 57'01 15° M 46'04 23° M 48'25 0° 9 0° \$\Omega\$ 16° \$\Omega\$ 32'53 23° \$\Omega\$ 36'52 27° \$\Omega\$ 50'44 0° \$\Omega\$ 2° \$\Omega\$ 37'25 2° \$\Omega\$ 27'48 17° \$\Omega\$ 33'01	2°48'05 2°47'21 0.62510 AU 27°54'03 1.32212 AU 0°41'22
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	8705 May 31 17:35 8705 Jun 02 08:48 8705 Jun 11 22:04 8705 Jun 18 16:59 8705 Jun 21 04:15 8705 Jun 28 00:29 8705 Jun 28 03:27 8705 Jul 01 07:32 8705 Jul 05 07:17 8705 Jul 11 12:38 8705 Jul 11 12:38 8705 Jul 25 20:30 8705 Aug 09 04:05 8705 Aug 27 04:33 8705 Aug 27 04:33 8705 Aug 27 17:06 8705 Sep 02 07:53 8705 Sep 03 09:34 8705 Sep 03 07:21 8705 Sep 08 19:43 8705 Sep 10 03:23	27° N 08'53 0° 9 13° 938'24 17° 905'16 16° 938'14 11° 945'56 11° 939'01 8° 944'02 5° 955'03 5° 943'41 3° 951'08 11° 947'18 0° N 0° M 2° M 28'33 3° M 34'03 15° M 41'09 18° M 02'57 17° M 50'43 0° 9 2° 950'55	2°00'06 1°59'00 0.60282 AU 27°46'59 1.31693 AU 1°03'21 1°02'56	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.	8706 May 18 14:39 8706 May 26 11:22 8706 May 31 06:18 8706 Jun 01 21:07 8706 Jun 03 12:00 8706 Jun 04 15:58 8706 Jun 10 21:43 8706 Jun 11 00:17 8706 Jun 13 18:19 8706 Jun 17 06:50 8706 Jun 22 04:20 8706 Jun 24 00:57 8706 Jul 08 02:51 8706 Jul 13 16:04 8706 Aug 02 12:02 8706 Aug 11 04:12 8706 Aug 14 14:04 8706 Aug 16 13:40 8706 Aug 17 13:37	16° II 15'19 26° II 52'56 0° II 32'56 0° II 3'27 30° RII 29° II 34'09 24° II 22'35 24° II 15'47 21° II 22'29 18° II 15'03 15° II 57'01 15° II 46'04 23° II 48'25 0° II 6° A 32'53 23° A 36'52 27° A 50'44 0° II 92'148	2°48'05 2°47'21 0.62510 AU 27°54'03 1.32212 AU 0°41'22

evening max el	8706 Sep 19 01:22 8706 Sep 22 13:28 8706 Oct 02 17:43	27° £ 00'36 0° M 3° M 51'35	24°02'24	minimum elong behind sun begin behind sun end	8707 Aug 02 22:26 8707 Aug 02 20:23 8707 Aug 03 00:30	16° \ 350'29 16° \ 39'29 17° \ 01'28	0°14'51
evening set	8706 Oct 07 12:38	3°M01'17			8707 Aug 09 01:37	0° т р	
min. Earth dist.	8706 Oct 13 11:59	0°M04'50	0.56079 AU	evening rise	8707 Aug 10 02:11	2° m 10'42	
infariar aani	8706 Oct 13 15:13 8706 Oct 15 18:45	30° ₹ Ω 28°Ω41'12	5027102	ovening may al	8707 Aug 25 11:33	0° ჲ 7° ჲ 12'18	2202252
inferior conj minimum elong	8706 Oct 15 18:43 8706 Oct 15 19:14	28° £ 41 12 28° £ 40'27		evening max el desc. node	8707 Aug 31 13:36 8707 Sep 05 00:14	10° £ 50'53	22 22 32
morning rise	8706 Oct 24 03:54	24° Ω 43'18	3 30 33	retrograde	8707 Sep 13 12:18	13° ⊆ 39'24	
direct	8706 Oct 26 21:16	24° £ 24'10		evening set	8707 Sep 16 19:14	13° ⊆ 15'31	
morning max el	8706 Nov 05 23:30	29° Ω 09'44	19°54'04	min. Earth dist.	8707 Sep 24 19:59	9° £ 43'39	0.54953 AU
	8706 Nov 06 19:55	0°M		inferior conj	8707 Sep 25 18:18	9° £ 12'11	-5°13'13
asc. node	8706 Nov 10 13:49	4°M26'50		minimum elong	8707 Sep 25 11:16	9° £ 22'06	5°12'07
morning set	8706 Nov 23 20:50	27°M56'49		morning rise	8707 Oct 04 05:04	5° ≏ 24'34	
	8706 Nov 24 21:04	0°⊀		direct	8707 Oct 07 11:48	5° ≏ 00'21	
				morning max el	8707 Oct 19 03:27	10° ≏ 28'33	21°19'03
superior conj	8706 Dec 01 15:15	13° ∡ ⁴42'15	1°28'23	asc. node	8707 Oct 28 10:47	22° ≏ 21'39	
minimum elong	8706 Dec 01 17:41	13° ₹ 54'26	1°28'22		8707 Nov 01 20:25	0°M	
max. Earth dist.	8706 Dec 07 12:37	25° ₹ 06'54	1.37171 AU	morning set	8707 Nov 08 05:40	12°M41'35	
	8706 Dec 10 04:04	0°궁 2°궁00'38		:	9707 N 15 12-10	27° M .57'23	1920110
evening rise	8706 Dec 11 06:46	8°る40'38		superior conj	8707 Nov 15 12:19		1°38'18 1°38'25
desc. node	8706 Dec 15 01:56 8706 Dec 28 12:50	8° ~ 4038		minimum elong	8707 Nov 15 13:31 8707 Nov 16 12:03	28°M.03'32 0°⊀	1-38/25
evening max el	8700 Dec 28 12:30 8707 Jan 15 21:32	0 ∞ 23°≈03'13	25°33'28	max. Earth dist.	8707 Nov 10 12:03 8707 Nov 19 23:12	0	1.35229 AU
evening max er	8707 Jan 26 21:00	0° ∀	23 33 20	evening rise	8707 Nov 24 02:24	15°×702'02	1.5522) 110
retrograde	8707 Jan 28 03:58	0° X 06'09		desc. node	8707 Dec 01 22:58	29° × 07'01	
	8707 Jan 29 10:05	30°R≈			8707 Dec 02 11:29	0°る	
evening set	8707 Feb 03 02:05	27° ≈ 39'48			8707 Dec 23 04:39	0° ≈	
asc. node	8707 Feb 06 12:59	24° ≈ 02'17		evening max el	8707 Dec 29 10:47	6° ≈ 47'30	26°34'38
min. Earth dist.	8707 Feb 07 10:46	22° ≈ 54′28	0.67396 AU	retrograde	8708 Jan 11 10:20	14° ≈ 04′22	
inferior conj	8707 Feb 08 18:38	21° ≈ 12′29	0°43'55	evening set	8708 Jan 17 20:29	11° ≈ 30′19	
minimum elong	8707 Feb 08 17:34	21° ≈ 15'55	0°43'38	min. Earth dist.	8708 Jan 21 22:52	7° ≈ 19'44	0.66298 AU
morning rise	8707 Feb 14 09:29	15° ≈ 19'46		inferior conj	8708 Jan 23 18:25	5° ≈ 09'45	
direct	8707 Feb 17 18:46	14°≈13'52		minimum elong	8708 Jan 23 18:46	5°≈08'42	0°12'44
morning max el	8707 Feb 24 17:14	18°≈02'30	19°08'14	transit middle	8708 Jan 23 18:46	5°≈08'42	0°12'44
	8707 Mar 06 02:14	0° ₩ 5° ₩ 56'17	0.7	transit begin	8708 Jan 23 16:59	5°≈14'01	
greatest brilliancy desc. node	8707 Mar 10 02:18 8707 Mar 13 01:37	10°\(\frac{1}{27}\)	-0.7m	transit end asc. node	8708 Jan 23 20:33 8708 Jan 24 10:04	5°≈03'23 4°≈23'15	
morning set	8707 Mar 20 03:02	21° X 27'19		asc. node	8708 Jan 28 21:08	4 ≈23 13 30°Rる	
morning set	8707 Mar 25 17:03	0° Υ		morning rise	8708 Jan 29 17:58	29° る 27'39	
max. Earth dist.	8707 Apr 02 21:04	12° Υ 46'11	1.45130 AU	direct	8708 Feb 01 16:50	28° る 38'56	
	r				8708 Feb 05 15:15	0° ≈	
superior conj	8707 Apr 05 17:18	17° Y 15'18	-2°05'59	morning max el	8708 Feb 08 05:27	2° ≈ 09'06	18°24'25
minimum elong	8707 Apr 05 11:38	16° Ƴ 52'55	2°05'47	-	8708 Feb 27 10:22	0°) €	
	8707 Apr 13 16:37	9° 8		desc. node	8708 Feb 27 22:32	0°) 48′28	
evening rise	8707 Apr 20 08:40	10° 8 52'17		morning set	8708 Feb 28 04:23	1°) 11′43	
	8707 May 02 04:09	Π °0					
asc. node	8707 May 05 11:43	4° ∏ 51'44		superior conj	8708 Mar 14 22:37	26°) €04'19	
evening max el	8707 May 10 00:18	10° Ⅱ 21'01	18°25'15	minimum elong	8708 Mar 14 13:01	25°) €26'42	
retrograde	8707 May 16 10:45	13° ∏ 49'18		max. Earth dist.	8708 Mar 15 16:13	27° 升 13'11 0° Ƴ	1.45545 AU
evening set inferior conj	8707 May 19 12:58 8707 May 25 08:15	12° Ⅲ 56'18 7° Ⅲ 26'58	3°13'57	evening rise	8708 Mar 17 10:52 8708 Mar 30 20:05	0°Υ 20°Υ59'45	
minimum elong	8707 May 25 09:38	7° Ⅱ 20′58	3°13'37	evening rise	8708 Apr 05 13:16	0° 8	
min. Earth dist.	8707 May 27 14:20	4° Π 48'45	0.64517 AU	greatest brilliancy	8708 Apr 09 19:37	6° 8 39'42	-0.8m
morning rise	8707 May 31 05:21	1° Ⅱ 11'04	0.04317710	asc. node	8708 Apr 21 08:49	22° 8 48'52	0.0111
	8707 Jun 01 20:39	30°R₩		evening max el	8708 Apr 22 10:20	23° 8 56'31	19°00'50
direct	8707 Jun 06 21:30	28° 8 27'50		retrograde	8708 Apr 29 06:09	27° 8 45'25	
desc. node	8707 Jun 09 01:22	28° 8 43'05		evening set	8708 May 02 15:59	26° 8 37'56	
	8707 Jun 12 09:26	$\Pi^{\circ}0$		inferior conj	8708 May 08 04:24		3°22'21
morning max el	8707 Jun 20 12:36	6° Ⅱ 26′09	27°25'06	minimum elong	8708 May 08 04:29	20° 8 52'18	3°22'12
	8707 Jul 08 13:23	0°©		min. Earth dist.	8708 May 09 19:10	18° 8 49'26	0.66157 AU
morning set	8707 Jul 25 19:21	0° Ω 09'37		morning rise	8708 May 13 16:30	14° 8 33'52	
	8707 Jul 25 17:23	0° Ω		direct	8708 May 20 01:05	11° 8 48'07	
max. Earth dist.	8707 Jul 30 11:52	9° Ω 36'42	1.33218 AU	desc. node	8708 May 25 22:21	13° 8 41'23	0.000.011.
asc. node	8707 Aug 01 11:00	13° Ω 42'48		morning max el	8708 Jun 01 23:14	19° 8 29'36	26~26'45
gunorier cor:	9707 Ava 02 22:11	16° Ω 54'28	0015110		8708 Jun 10 21:50 8708 Jun 30 14:58	0°© 0°∏	
superior conj	8707 Aug 02 23:11	10 063428	0 13 10		o/00 Jun 30 14:38	0 20	

morning set	8708 Jul 07 22:45	13° © 10'25		morning max el	8709 May 15 08:54	2° 8 46'22	25°08'12
max. Earth dist.	8708 Jul 11 23:41	20° © 56'21	1.34708 AU		8709 Jun 05 01:40	Π °0	
	8708 Jul 16 11:47	$0 {\circ} \Omega$		morning set	8709 Jun 20 10:02	25° Ⅱ 23'09	
					8709 Jun 22 23:06	0°©	
superior conj	8708 Jul 16 21:08	0° Ω 48′05	-0°14'30	max. Earth dist.	8709 Jun 24 01:02	1° © 59'46	1.36628 AU
minimum elong	8708 Jul 16 21:58	0° Ω 52′21	0°14'32				
behind sun begin	8708 Jul 16 19:25	0° Ω 39'15		superior conj	8709 Jun 30 09:30	14° © 10'33	-0°46'19
behind sun end	8708 Jul 17 00:31	1° Ω 05'27		minimum elong	8709 Jun 30 12:21	14°9524'36	0°46'00
asc. node	8708 Jul 18 07:58	3°Ω48'13		asc. node	8709 Jul 05 04:57	23°9548'57	0 10 00
	8708 Jul 24 11:17	16° Ω 38'27		use. Houe	8709 Jul 08 06:08	0°Ω	
evening rise							
	8708 Jul 31 04:46	0° m/y		evening rise	8709 Jul 08 15:56	0° Ω 49'29	
evening max el	8708 Aug 12 10:29	17° m 43'59	20°52'16	evening max el	8709 Jul 25 20:46	28° Ω 58'05	19°39'42
desc. node	8708 Aug 21 21:19	23° Mp 17'08			8709 Jul 26 23:14	0° m ∌	
retrograde	8708 Aug 24 00:40	23° Mp 28'35		retrograde	8709 Aug 04 17:56	3° Mp 50'54	
evening set	8708 Aug 26 05:19	23° Mp 17'04		evening set	8709 Aug 06 14:15	3°Mp41'26	
inferior conj	8708 Sep 04 10:39	19° m 20'21	-3°54'44	desc. node	8709 Aug 08 18:25	3° m 07'40	
minimum elong	8708 Sep 04 01:08	19° m 33'52	3°51'57		8709 Aug 14 20:32	30°R Ω	
min. Earth dist.	8708 Sep 05 04:51	18° m) 54'27	0.54696 AU	inferior conj	8709 Aug 15 10:27	29° Ω 38'16	-2°02'29
morning rise	8708 Sep 12 21:06	15° m 23'09	0.0 10 0 110	minimum elong	8709 Aug 15 04:52	29° Ω 47'00	
direct	8708 Sep 16 19:40	14° m) 49'54		min. Earth dist.	8709 Aug 17 16:36	28°Ω13'40	0.55397 AU
	-	-	22900124		•		0.55597 AU
morning max el	8708 Sep 29 20:31	21°Mp04'29	23 00 34	morning rise	8709 Aug 23 17:15	25°Ω12'10	
	8708 Oct 07 11:08	0∘ ⊽		direct	8709 Aug 28 10:54	24° Ω 22'16	
asc. node	8708 Oct 14 07:44	10° ≏ 58'38			8709 Sep 09 22:09	0° m)	
morning set	8708 Oct 22 16:49	27° ≏ 30'54		morning max el	8709 Sep 11 08:49	1° Mp 18'28	24°46'26
	8708 Oct 23 20:51	0° M		asc. node	8709 Oct 01 04:41	0° ჲ 07'20	
					8709 Oct 01 03:09	0∘ ত	
superior conj	8708 Oct 29 16:35	12°M32'00	1°41'06	morning set	8709 Oct 07 04:35	12° ₽ 19'52	
minimum elong	8708 Oct 29 16:29	12°M31'31	1°41'14	Ü			
max. Earth dist.	8708 Nov 01 17:23	18° M 57'44	1.33650 AU	superior conj	8709 Oct 14 01:25	27° ≏ 18'16	1°37'36
evening rise	8708 Nov 06 11:50	28°M40'06		minimum elong	8709 Oct 14 00:15	27° £ 11'53	1°37'38
evening rise	8708 Nov 07 04:05	20 11 0 1 0 00		minimum ciong	8709 Oct 15 07:02	0°M	1 37 36
, ,				E d F			1 22500 444
desc. node	8708 Nov 17 20:00	19° √ 17'11		max. Earth dist.	8709 Oct 15 19:35	1°M08'09	1.32508 AU
	8708 Nov 24 15:27	0°る		evening rise	8709 Oct 21 07:35	12° M 45'57	
evening max el	8708 Dec 10 23:38	20° る 18'38	27°15'34		8709 Oct 30 08:05	0° ∡ ¹	
retrograde	8708 Dec 24 10:52	27° る 39'51		desc. node	8709 Nov 04 17:04	9° ∡ 04'12	
evening set	8708 Dec 31 06:45	25° පි 04'11			8709 Nov 20 02:09	0° ರ	
min. Earth dist.	8709 Jan 04 03:39	21° る 27'09	0.64845 AU	evening max el	8709 Nov 23 10:46	3° ₹ 25'52	27°29'32
inferior conj	8709 Jan 06 10:54	18° る 56'13	-1°17'10	retrograde	8709 Dec 07 04:46	10°る44'03	
minimum elong	8709 Jan 06 13:14	18° る 49'50	1°15'58	evening set	8709 Dec 14 06:13	8° る 15'15	
asc. node	8709 Jan 10 07:09	15° る 07'15	1 10 00	min. Earth dist.	8709 Dec 17 23:20		0.63079 AU
morning rise	8709 Jan 12 21:13	13° る 27'16		inferior conj	8709 Dec 20 17:25	2° る 26'01	
direct	8709 Jan 15 11:31	13 ර 27 10 12° ර 52'00		,	8709 Dec 20 17:25 8709 Dec 20 22:05	2°る14'31	
			17057120	minimum elong			2 24 28
morning max el	8709 Jan 21 21:45	16° ප 14'44	17°57'20		8709 Dec 23 07:38	30°₹ ⋌ ¹	
	8709 Jan 31 21:10	0° ≈		morning rise	8709 Dec 27 16:01	27° ∡ 13′04	
morning set	8709 Feb 08 11:10	12° ≈ 30'35		asc. node	8709 Dec 28 04:12	27° ∡ °03′10	
desc. node	8709 Feb 13 19:26	21° ≈ 21′05		direct	8709 Dec 30 00:03	26° ∡ ¹47'20	
	8709 Feb 19 03:02	0° ∀			8710 Jan 05 10:14	0°₹	
				morning max el	8710 Jan 05 15:12	0° る 12'04	17°47'38
superior conj	8709 Feb 22 10:24	5°) (17′54	-0°59'54	morning set	8710 Jan 21 19:18	25° る 03'05	
minimum elong	8709 Feb 22 03:33	4° ¥ 50'36	0°58'54		8710 Jan 24 15:30	0° ≈ ≈	
max. Earth dist.	8709 Feb 26 11:41	11° ¥ 42'55	1.45217 AU	desc. node	8710 Jan 31 16:22	12° ≈ 01'31	
man. Barar and.	8709 Mar 10 05:59	0°Υ	1.10217110	dese. Hode	0/10 0411 51 10.22	12 10 01 01	
evening rise	8709 Mar 10 03:59	0° Υ 26'44		superior conj	8710 Feb 02 19:39	15° ≈ 35'22	0°15'40
•			0.6				
greatest brilliancy	8709 Mar 24 22:22	22° Y 14'51	-0.6m	minimum elong	8710 Feb 02 18:02	15° ≈ 28'39	0°15′16
	8709 Mar 30 09:28	0° 8		behind sun begin	8710 Feb 02 15:06	15° ≈ 16′29	
evening max el	8709 Apr 05 15:38	7° 8 34'49	19°52'41	behind sun end	8710 Feb 02 20:58	15° ≈ 40'48	
asc. node	8709 Apr 08 05:55	9° 8 54'06		max. Earth dist.	8710 Feb 09 05:08	26° ≈ 00′22	1.44194 AU
retrograde	8709 Apr 13 04:15	11° 8 54'52			8710 Feb 11 17:22	0° ∀	
evening set	8709 Apr 16 22:29	10° 8 32'29		evening rise	8710 Feb 18 00:17	9°){ 48'46	
inferior conj	8709 Apr 22 07:04	4° 8 32'55	3°16'55	-	8710 Mar 03 10:53	0° Y	
minimum elong	8709 Apr 22 06:02	4° 8 36'24	3°16'42	evening max el	8710 Mar 19 15:30	21° Υ 14'49	20°58'15
min. Earth dist.	8709 Apr 23 07:12	3° 8 11'55	0.67367 AU	asc. node	8710 Mar 26 03:02	25°Υ′53'20	
Lattii dist.	8709 Apr 25 20:23	30°RΥ	3.07307 110	retrograde	8710 Mar 28 02:46	26°Υ13'23	
morning rise	-	30 K I 28°Υ15'00		•			
morning rise	8709 Apr 27 13:18			evening set	8710 Apr 01 06:33	24° Y 35'43	2000102
direct	8709 May 03 10:45	25° Y 37'14		inferior conj	8710 Apr 06 13:46	18° Y ′24'07	3°00'02
	8709 May 12 10:06	0°8		minimum elong	8710 Apr 06 11:57	18° Ƴ 30'24	2°59'39
desc. node	8709 May 12 19:19	0° 8 20'03		min. Earth dist.	8710 Apr 07 00:21	17° Ƴ 47'31	0.68133 AU

morning rise	8710 Apr 11 17:08	12° Ƴ 09'11		min. Earth dist.	8711 Mar 21 20:21	2° Y 29'20	0.68456 AU
direct	8710 Apr 17 01:26	9° Υ 47'21		mm. Lattii dist.	8711 Mar 23 15:58	30°R) ★	0.00430 AC
morning max el	8710 Apr 27 18:01	16° Υ 10'07	23°39'37	morning rise	8711 Mar 27 01:38	26° ¥ 11'58	
desc. node	8710 Apr 29 16:17	18° Υ 12'15	23 37 31	direct	8711 Mar 31 20:01	24° X 11'56	
dese. Hode	8710 May 09 03:29	0°8		morning max el	8711 Apr 10 05:31	29° ¥ 41'31	22°10'47
	8710 May 29 01:32	0°II		morning must vi	8711 Apr 10 12:49	0°Υ	22 10 17
morning set	8710 Jun 01 23:49	6° Ⅱ 33'41		desc. node	8711 Apr 16 13:14	6°Υ′57'26	
max. Earth dist.	8710 Jun 05 21:04	13° Ⅱ 16'39	1.38835 AU	dese. node	8711 May 02 21:47	0°8	
				morning set	8711 May 13 11:10	16° 8 29'51	
superior conj	8710 Jun 13 08:39	26° ∏ 53'08	-1°18'08	max. Earth dist.	8711 May 18 19:35	25° 8 18'55	1.41072 AU
minimum elong	8710 Jun 13 13:32	27° Ⅱ 16′04			8711 May 21 13:51	0°II	
Č	8710 Jun 15 00:13	0°ಅ			,		
asc. node	8710 Jun 22 01:58	13° © 41'04		superior conj	8711 May 26 14:08	8° Ⅲ 45'11	-1°46'32
evening rise	8710 Jun 22 13:22	14° © 36'38		minimum elong	8711 May 26 20:05	9° Ⅱ 11'39	1°46'07
· ·	8710 Jun 30 20:04	$0^{\circ}\Omega$		evening rise	8711 Jun 06 00:08	27° Ⅱ 51'04	
evening max el	8710 Jul 08 19:19	10° Ω 56'58	18°47'54	C	8711 Jun 07 03:49	$0 \circ \mathfrak{S}$	
retrograde	8710 Jul 17 02:59	15° Ω 04'36		asc. node	8711 Jun 08 23:00	3° 5 20'05	
evening set	8710 Jul 19 02:49	14° Ω 51'17		evening max el	8711 Jun 22 02:34	23° © 32'53	18°16'43
desc. node	8710 Jul 26 15:33	10° Ω 54'42		retrograde	8711 Jun 29 07:30	27° 5 0'13	
inferior conj	8710 Jul 27 04:40	10° Ω 31′00	-0°09'58	evening set	8711 Jul 01 14:28	26°5549'02	
minimum elong	8710 Jul 27 04:15	10° Ω 31'45	0°09'59	inferior conj	8711 Jul 08 20:43	22° © 08'00	1°20'35
transit middle	8710 Jul 27 04:15	10° Ω 31'45	0°09'59	minimum elong	8711 Jul 08 23:11	22° © 02'45	1°19'32
transit begin	8710 Jul 27 01:21	10° Ω 37'01		min. Earth dist.	8711 Jul 12 05:58	19° 5 016'21	0.58986 AU
transit end	8710 Jul 27 07:09	10° Ω 26′28		desc. node	8711 Jul 13 12:39	18° © 16'50	
min. Earth dist.	8710 Jul 30 08:21	8° Ω 14'26	0.56929 AU	morning rise	8711 Jul 16 04:43	16° © 31'54	
morning rise	8710 Aug 04 02:17	5° Ω 28'04		direct	8711 Jul 22 10:52	14° © 45'55	
direct	8710 Aug 09 16:05	4° Ω 12'44		morning max el	8711 Aug 05 19:55	22° © 33'10	27°25'40
morning max el	8710 Aug 23 23:10	11° Ω 39′22	26°19'54		8711 Aug 12 10:18	$0^{\circ}\Omega$	
	8710 Sep 07 04:28	0° m/y			8711 Aug 31 05:06	0° ™	
asc. node	8710 Sep 18 01:37	19° m 38'55		asc. node	8711 Sep 04 22:34	9° m 26'59	
morning set	8710 Sep 21 15:15	27° Mp 02'55		morning set	8711 Sep 05 23:12	11° m)35'38	
	8710 Sep 23 00:16	0∘ ত		max. Earth dist.	8711 Sep 12 13:43	25° m 57'22	1.31614 AU
superior conj	8710 Sep 28 12:40	12° ≙ 08′29	1°28'24	superior conj	8711 Sep 13 00:29	26° m 57'04	1°13'56
minimum elong	8710 Sep 28 10:45	11° ≙ 57'54	1°28'14	minimum elong	8711 Sep 12 22:14	26° m 44'39	1°13'35
max. Earth dist.	8710 Sep 29 03:28	13° ≏ 30'29	1.31830 AU		8711 Sep 14 09:25	0∘ ⊽	
evening rise	8710 Oct 05 10:40	27° ≏ 10′25		evening rise	8711 Sep 19 18:41	11° ≏ 46'42	
	8710 Oct 06 19:16	0°M₊			8711 Sep 28 23:27	0° M	
desc. node	8710 Oct 22 14:10	28° M 17'47		desc. node	8711 Oct 09 11:17	16° M 44'40	
	8710 Oct 23 17:31	0°⊀		evening max el	8711 Oct 18 17:37	27°M35'21	26°18'53
evening max el	8710 Nov 05 17:42	15° ₹ 55'07	27°11'13		8711 Oct 21 12:05	0° ∡ 7	
retrograde	8710 Nov 19 14:48	23° ∡ ¹06'31		retrograde	8711 Nov 01 15:34	4° ∡ °40′18	
evening set	8710 Nov 26 15:14	20° ∡ 54'42 −		evening set	8711 Nov 08 05:17	2° ∡ ¹55'26	
min. Earth dist.	8710 Nov 30 08:26	18° ∡ 10′23	0.61082 AU	min. Earth dist.	8711 Nov 12 06:47	0° ∡ 120'57	0.58992 AU
inferior conj	8710 Dec 03 10:40	15° ₹ 29'37			8711 Nov 12 18:14	30°RM.	
minimum elong	8710 Dec 03 17:27	15° ₹ 14'53	3°34'54	inferior conj	8711 Nov 15 11:07	27°M57'16	
morning rise	8710 Dec 10 22:01	10° ₹ 35'58		minimum elong	8711 Nov 15 18:26	27°M43'26	4°40'12
direct	8710 Dec 13 02:54	10° ₹ 16'06		morning rise	8711 Nov 23 09:56	23°M25'57	
asc. node	8710 Dec 15 01:15	10° ₹ 31'57	17056110	direct	8711 Nov 25 15:39	23°M08'44	
morning max el	8710 Dec 20 06:25	13° ₹ 51'25	1/55619	asc. node	8711 Dec 01 22:16	25°M32'59	10024155
. ,	8710 Dec 31 06:00	0°る		morning max el	8711 Dec 03 15:53	27°M03'25	18°24'55
morning set	8711 Jan 04 22:07	8° る 28'09			8711 Dec 06 07:19	0° ⊀¹ 22° ⋅₹20107	
	9711 I 15 06-26	270=205125	0024121	morning set	8711 Dec 19 14:01	22° メ 29'07 0°る	
superior conj	8711 Jan 15 06:26	27°る05'35 27°る14'23			8711 Dec 23 12:10	0°6	
minimum elong	8711 Jan 15 08:27		0°24'15	aumariar aani	9711 Dec. 29 15:47	00=40100	0056112
desc. node	8711 Jan 16 22:40 8711 Jan 18 13:19	0° ≈ 2° ≈ 45'31		superior conj minimum elong	8711 Dec 28 15:47 8711 Dec 28 19:06	9°る40'09 9°る55'24	0°56'13 0°55'58
max. Earth dist.	8711 Jan 18 13:19 8711 Jan 22 18:55	2°≈45'31 9°≈51'10	1.42586 AU	max. Earth dist.	8711 Dec 28 19:06 8712 Jan 05 04:05	9°633'24 23° る 03'09	1.40571 AU
evening rise	8711 Jan 22 18:55 8711 Jan 28 21:16	9°≈31°10 19°≈41'57	1.72300 AU	desc. node	8712 Jan 05 04:05 8712 Jan 05 10:17	23° る 03'09	1. 1 03/1 AU
evening 1150	8711 Feb 04 12:53	19 ≈ 4137 0°) €		desc. Hode	8712 Jan 09 06:51	23 3 2940 0° ≈	
	8711 Feb 04 12:33 8711 Feb 25 24:00	0 Υ 0° Υ		evening rise	8712 Jan 09 08:31	0 ≈ 0°≈28'11	
evening max el	8711 Feb 23 24.00 8711 Mar 02 10:17	0 γ 4° Υ 56'24	22012128	evening rise	8712 Jan 28 23:20	0 ≈2811 0° H	
retrograde	8711 Mar 11 23:53	4 γ 36 24 10° γ 36'22	22 13 30	evening max el	8712 Feb 13 01:21	0 X 18° ¥ 40'30	23°33'36
asc. node	8711 Mar 13 00:10	10 γ 30 22 10° γ 31'12		retrograde	8712 Feb 13 01.21 8712 Feb 23 18:14	24° H 59'40	<u> </u>
evening set	8711 Mar 16 14:28	8° Υ 43'28		asc. node	8712 Feb 23 18:14 8712 Feb 27 21:18	24 X 39 40 23° X 36'59	
inferior conj	8711 Mar 21 22:20	2° Υ 22'25	2°33'15	evening set	8712 Feb 28 20:41	23° X 50'39	
minimum elong	8711 Mar 21 22:20 8711 Mar 21 20:08	2° Υ 30'06		min. Earth dist.	8712 Nev 28 20:41 8712 Mar 04 17:01	17° H 12'29	0.68358 AU
minimum clong	5/11 1/101 21 20.00	2 1 30 00	2 22 71	Larui dist.	5/12 1/101 OT 1/.U1	1, 1,1229	3.00330 AU

	0712 14 05 06 52	1601/25100	1057107		0712 F 1 17 12 24	001/2011	1012100
inferior conj	8712 Mar 05 06:53		1°57'27	inferior conj	8713 Feb 17 13:34	0° ∺ 29'11	
minimum elong	8712 Mar 05 04:43	16°) 32′25	1°56'48	minimum elong	8713 Feb 17 11:56	0°) (34′33	1°12'39
morning rise	8712 Mar 10 12:44	10° ∺ 20'16			8713 Feb 17 22:25	30°R ≈	
direct	8712 Mar 14 17:23	8°) (41'42		morning rise	8713 Feb 23 00:27	24° ≈ 31'33	
morning max el	8712 Mar 22 22:55	13° ∺ 24'18	20°49'27	direct	8713 Feb 26 16:20	23° ≈ 14'34	
desc. node	8712 Apr 02 10:09	26° ∺ 21'01		morning max el	8713 Mar 06 00:09	27°≈19'38	19°40'49
	8712 Apr 05 00:19	0° Y		_	8713 Mar 08 11:25	0° ∀	
morning set	8712 Apr 21 20:36	25° Y 16′20		greatest brilliancy	8713 Mar 18 17:49	13°) 55′24	-0.6m
	8712 Apr 24 20:53	0°8		desc. node	8713 Mar 20 07:03	16°) 12'54	*******
max. Earth dist.	8712 Apr 30 00:41	8° 8 15'29	1.43058 AU	dese. Hode	8713 Mar 29 09:44	0°Υ	
max. Earth dist.	8/12 Apr 30 00.41	8 0 13 29	1.43036 AU	marning act	8713 Mar 31 18:17	3° Υ 37'14	
	0712 M 06 21 14	100 425120	2007120	morning set			1 44555 ATT
superior conj	8712 May 06 21:14	19° 8 35'39		max. Earth dist.	8713 Apr 12 12:28	21° Y 58'14	1.44555 AU
minimum elong	8712 May 07 01:30	19° 8 53'39	2°06'28			• •	
	8712 May 12 22:51	Π °0		superior conj	8713 Apr 17 03:42	29° Y 22'32	
evening rise	8712 May 18 19:52	10° Ⅱ 21'45		minimum elong	8713 Apr 17 02:14	29° Ƴ 16'36	2°11'51
asc. node	8712 May 25 20:04	22° ∏ 40′04			8713 Apr 17 13:00	9° 8	
	8712 May 30 09:24	0 \circ \odot		evening rise	8713 Apr 30 19:55	21° 8 59'11	
evening max el	8712 Jun 04 14:35	6°≌35'10	18°05'15		8713 May 05 13:46	$\Pi^{\circ}0$	
retrograde	8712 Jun 11 04:24	9° © 57'52		asc. node	8713 May 12 17:09	11° ∏ 34'43	
evening set	8712 Jun 13 18:53	9° © 25'53		evening max el	8713 May 19 04:00	19° Ⅲ 55'43	18°12'41
inferior conj	8712 Jun 20 08:25	4° © 24'55	2°23'28	retrograde	8713 May 25 13:06	23° I 18'13	10 12
minimum elong	8712 Jun 20 11:22	4°9517'38	2°22'29	evening set	8713 May 28 10:57	22° I I33'25	
_					8713 Jun 03 11:47	22 H 33 23 17° H 14'10	2001126
min. Earth dist.	8712 Jun 23 11:38	1°521'09	0.61235 AU	inferior conj			
	8712 Jun 24 23:59	30°R∏		minimum elong	8713 Jun 03 13:54	17° Ⅱ 08'17	
morning rise	8712 Jun 27 01:31	28° Ⅱ 25'33		min. Earth dist.	8713 Jun 06 02:32	14° Ⅱ 20'59	0.63398 AU
desc. node	8712 Jun 29 09:43	27° Ⅱ 06'53		morning rise	8713 Jun 09 15:25	11° Ⅱ 01'53	
direct	8712 Jul 03 17:17	26° Ⅱ 10'14		direct	8713 Jun 16 09:24	8° Ⅱ 25'12	
	8712 Jul 13 05:05	0ಂ ತಾ		desc. node	8713 Jun 16 06:46	8° Ⅱ 25'15	
morning max el	8712 Jul 17 23:27	4° © 10'13	27°54'49	morning max el	8713 Jun 30 07:42	16° Ⅲ 28'13	27°45'49
	8712 Aug 06 03:46	$0^{\circ}\Omega$			8713 Jul 11 11:35	0 \circ \odot	
morning set	8712 Aug 20 02:29	25° Ω 51'48			8713 Jul 29 21:51	$0^{\circ}\Omega$	
asc. node	8712 Aug 21 19:31	29° Ω 25'26		morning set	8713 Aug 03 22:51	9° Ω 44'56	
	8712 Aug 22 02:04	0° m)		asc. node	8713 Aug 08 16:28	19° Ω 29'42	
max. Earth dist.	8712 Aug 25 22:16	8° Mp 16'12	1.31857 AU	max. Earth dist.	8713 Aug 09 01:06	20°Ω15'26	1.32574 AU
max. Earth dist.	0/12/1ug 23 22.10	0 11/1012	1.51057 710	max. Earth dist.	0/15/14g 0/ 01.00	20 0013 20	1.52574710
superior conj	8712 Aug 27 11:00	11° m 37'45	0°54'36	superior conj	8713 Aug 11 18:22	26° Ω 04'52	0°30'45
minimum elong	8712 Aug 27 11:00 8712 Aug 27 08:55	11° mp 26'15	0°54'08	minimum elong	8713 Aug 11 16:57	25° Ω 57'17	0°30'19
_	•	-	0 34 08	minimum clong	-		0 30 19
evening rise	8712 Sep 03 05:26	26° m 27'43			8713 Aug 13 13:42	0° my	
	8712 Sep 04 21:26	0∘ ত		evening rise	8713 Aug 18 17:02	11° m)07'45	
	1	00111			•	-•	
	8712 Sep 22 02:16	0° M			8713 Aug 28 06:47	0° ت	
desc. node	1	4°M06'10		evening max el	8713 Aug 28 06:47 8713 Sep 10 20:26	-•	23°19'53
desc. node evening max el	8712 Sep 22 02:16		24°57'31	evening max el desc. node	8713 Aug 28 06:47	0° ت	23°19'53
	8712 Sep 22 02:16 8712 Sep 25 08:25	4°M06'10	24°57'31	•	8713 Aug 28 06:47 8713 Sep 10 20:26	0° <u>०</u> 18° ഫ 40'44	23°19'53
evening max el	8712 Sep 22 02:16 8712 Sep 25 08:25 8712 Sep 29 09:16	4°ጤ06'10 8°ጤ24'39	24°57'31	desc. node	8713 Aug 28 06:47 8713 Sep 10 20:26 8713 Sep 12 05:32	0° ჲ 18° ჲ 40'44 19° ჲ 57'17	23°19'53
evening max el retrograde	8712 Sep 22 02:16 8712 Sep 25 08:25 8712 Sep 29 09:16 8712 Oct 13 05:40	4°M06'10 8°M24'39 15°M23'21	24°57'31 0.57027 AU	desc. node retrograde	8713 Aug 28 06:47 8713 Sep 10 20:26 8713 Sep 12 05:32 8713 Sep 24 07:36	0° • 18° • 40'44 19° • 57'17 25° • 24'30	
evening max el retrograde evening set min. Earth dist.	8712 Sep 22 02:16 8712 Sep 25 08:25 8712 Sep 29 09:16 8712 Oct 13 05:40 8712 Oct 18 19:48	4°M06'10 8°M24'39 15°M23'21 14°M12'51	0.57027 AU	desc. node retrograde evening set min. Earth dist.	8713 Aug 28 06:47 8713 Sep 10 20:26 8713 Sep 12 05:32 8713 Sep 24 07:36 8713 Sep 28 10:48	0° Ω 18° Ω40'44 19° Ω57'17 25° Ω24'30 24° Ω47'11	0.55500 AU
evening max el retrograde evening set min. Earth dist. inferior conj	8712 Sep 22 02:16 8712 Sep 25 08:25 8712 Sep 29 09:16 8712 Oct 13 05:40 8712 Oct 18 19:48 8712 Oct 23 20:40 8712 Oct 26 15:46	4°M06'10 8°M24'39 15°M23'21 14°M12'51 11°M29'48 9°M39'50	0.57027 AU -5°27'17	desc. node retrograde evening set min. Earth dist. inferior conj	8713 Aug 28 06:47 8713 Sep 10 20:26 8713 Sep 12 05:32 8713 Sep 24 07:36 8713 Sep 28 10:48 8713 Oct 05 06:02 8713 Oct 07 00:35	0° മ 18° മ40'44 19° മ57'17 25° മ24'30 24° മ47'11 21° മ37'12	0.55500 AU -5°33'50
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	8712 Sep 22 02:16 8712 Sep 25 08:25 8712 Sep 29 09:16 8712 Oct 13 05:40 8712 Oct 18 19:48 8712 Oct 23 20:40	4°M06'10 8°M24'39 15°M23'21 14°M12'51 11°M29'48	0.57027 AU -5°27'17	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong	8713 Aug 28 06:47 8713 Sep 10 20:26 8713 Sep 12 05:32 8713 Sep 24 07:36 8713 Sep 28 10:48 8713 Oct 05 06:02	0° Ω 18° Ω 40'44 19° Ω 57'17 25° Ω 24'30 24° Ω 47'11 21° Ω 37'12 20° Ω 34'47	0.55500 AU -5°33'50
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	8712 Sep 22 02:16 8712 Sep 25 08:25 8712 Sep 29 09:16 8712 Oct 13 05:40 8712 Oct 18 19:48 8712 Oct 23 20:40 8712 Oct 26 15:46 8712 Oct 26 20:02 8712 Nov 03 22:33	4°M.06'10 8°M.24'39 15°M.23'21 14°M.12'51 11°M.29'48 9°M.39'50 9°M.32'49 5°M.31'22	0.57027 AU -5°27'17	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	8713 Aug 28 06:47 8713 Sep 10 20:26 8713 Sep 12 05:32 8713 Sep 24 07:36 8713 Sep 28 10:48 8713 Oct 05 06:02 8713 Oct 07 00:35 8713 Oct 06 21:44 8713 Oct 15 10:44	0° ഇ 18° ഇ40'44 19° ഇ57'17 25° ഇ24'30 24° ഇ47'11 21° ഇ37'12 20° ഇ38'58 16° ഇ43'05	0.55500 AU -5°33'50
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	8712 Sep 22 02:16 8712 Sep 25 08:25 8712 Sep 29 09:16 8712 Oct 13 05:40 8712 Oct 18 19:48 8712 Oct 23 20:40 8712 Oct 26 15:46 8712 Oct 26 20:02 8712 Nov 03 22:33 8712 Nov 06 10:02	4°M06'10 8°M24'39 15°M23'21 14°M12'51 11°M29'48 9°M39'50 9°M32'49 5°M31'22 5°M13'54	0.57027 AU -5°27'17 5°26'43	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	8713 Aug 28 06:47 8713 Sep 10 20:26 8713 Sep 12 05:32 8713 Sep 24 07:36 8713 Sep 28 10:48 8713 Oct 05 06:02 8713 Oct 07 00:35 8713 Oct 06 21:44 8713 Oct 15 10:44 8713 Oct 18 09:08	0° ഇ 18° ഇ40'44 19° ഇ57'17 25° ഇ24'30 24° ഇ47'11 21° ഇ37'12 20° ഇ34'47 20° ഇ38'58 16° ഇ43'05 16° ഇ22'18	0.55500 AU -5°33'50 5°33'36
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	8712 Sep 22 02:16 8712 Sep 25 08:25 8712 Sep 29 09:16 8712 Oct 13 05:40 8712 Oct 18 19:48 8712 Oct 23 20:40 8712 Oct 26 15:46 8712 Oct 26 20:02 8712 Nov 03 22:33 8712 Nov 06 10:02 8712 Nov 15 15:58	4°M06'10 8°M24'39 15°M23'21 14°M12'51 11°M29'48 9°M39'50 9°M32'49 5°M31'22 5°M13'54 9°M37'52	0.57027 AU -5°27'17 5°26'43	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	8713 Aug 28 06:47 8713 Sep 10 20:26 8713 Sep 12 05:32 8713 Sep 24 07:36 8713 Sep 28 10:48 8713 Oct 05 06:02 8713 Oct 07 00:35 8713 Oct 06 21:44 8713 Oct 15 10:44 8713 Oct 18 09:08 8713 Oct 29 03:38	0° \(\oldsymbol{\Omega}\) 18° \(\oldsymbol{\Omega}\) 40° \(\oldsymbol{\Omega}\) 24° \(\oldsymbol{\Omega}\) 21° \(\oldsymbol{\Omega}\) 20° \(\oldsymbol{\Omega}\) 34'47 20° \(\oldsymbol{\Omega}\) 34'58 16° \(\oldsymbol{\Omega}\) 3'05 16° \(\oldsymbol{\Omega}\) 21' \(\oldsymbol{\Omega}\) 21' \(\oldsymbol{\Omega}\) 21' \(\oldsymbol{\Omega}\) 25'39	0.55500 AU -5°33'50 5°33'36
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	8712 Sep 22 02:16 8712 Sep 25 08:25 8712 Sep 29 09:16 8712 Oct 13 05:40 8712 Oct 18 19:48 8712 Oct 23 20:40 8712 Oct 26 15:46 8712 Oct 26 20:02 8712 Nov 03 22:33 8712 Nov 06 10:02 8712 Nov 15 15:58 8712 Nov 17 19:15	4°M.06'10 8°M.24'39 15°M.23'21 14°M.12'51 11°M.29'48 9°M.39'50 9°M.32'49 5°M.31'22 5°M.13'54 9°M.37'52 11°M.53'39	0.57027 AU -5°27'17 5°26'43	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	8713 Aug 28 06:47 8713 Sep 10 20:26 8713 Sep 12 05:32 8713 Sep 24 07:36 8713 Sep 28 10:48 8713 Oct 05 06:02 8713 Oct 07 00:35 8713 Oct 06 21:44 8713 Oct 15 10:44 8713 Oct 18 09:08 8713 Oct 29 03:38 8713 Nov 04 16:14	0° \(\oldsymbol{\Omega}\) 18° \(\oldsymbol{\Omega}\) 40° \(\oldsymbol{\Omega}\) 24° \(\oldsymbol{\Omega}\) 21° \(\oldsymbol{\Omega}\) 20° \(\oldsymbol{\Omega}\) 34'47 20° \(\oldsymbol{\Omega}\) 34'47 20° \(\oldsymbol{\Omega}\) 38'58 16° \(\oldsymbol{\Omega}\) 43'05 16° \(\oldsymbol{\Omega}\) 21' \(\oldsymbol{\Omega}\) 29° \(\oldsymbol{\Omega}\) 18'21	0.55500 AU -5°33'50 5°33'36
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	8712 Sep 22 02:16 8712 Sep 25 08:25 8712 Sep 29 09:16 8712 Oct 13 05:40 8712 Oct 18 19:48 8712 Oct 23 20:40 8712 Oct 26 15:46 8712 Oct 26 20:02 8712 Nov 03 22:33 8712 Nov 06 10:02 8712 Nov 15 15:58 8712 Nov 29 02:26	4°M.06'10 8°M.24'39 15°M.23'21 14°M.12'51 11°M.29'48 9°M.39'50 9°M.32'49 5°M.31'22 5°M.13'54 9°M.37'52 11°M.53'39 0° 🗷	0.57027 AU -5°27'17 5°26'43	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	8713 Aug 28 06:47 8713 Sep 10 20:26 8713 Sep 12 05:32 8713 Sep 24 07:36 8713 Sep 28 10:48 8713 Oct 05 06:02 8713 Oct 07 00:35 8713 Oct 06 21:44 8713 Oct 15 10:44 8713 Oct 18 09:08 8713 Oct 29 03:38 8713 Nov 04 16:14 8713 Nov 05 03:29	0° Ω 18° Ω 40'44 19° Ω 57'17 25° Ω 24'30 24° Ω 47'11 21° Ω 37'12 20° Ω 34'47 20° Ω 38'58 16° Ω 43'05 16° Ω 22'18 21° Ω 25'39 29° Ω 18'21 0° ጤ	0.55500 AU -5°33'50 5°33'36
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	8712 Sep 22 02:16 8712 Sep 25 08:25 8712 Sep 29 09:16 8712 Oct 13 05:40 8712 Oct 18 19:48 8712 Oct 23 20:40 8712 Oct 26 15:46 8712 Oct 26 20:02 8712 Nov 03 22:33 8712 Nov 06 10:02 8712 Nov 15 15:58 8712 Nov 17 19:15	4°M.06'10 8°M.24'39 15°M.23'21 14°M.12'51 11°M.29'48 9°M.39'50 9°M.32'49 5°M.31'22 5°M.13'54 9°M.37'52 11°M.53'39	0.57027 AU -5°27'17 5°26'43	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	8713 Aug 28 06:47 8713 Sep 10 20:26 8713 Sep 12 05:32 8713 Sep 24 07:36 8713 Sep 28 10:48 8713 Oct 05 06:02 8713 Oct 07 00:35 8713 Oct 06 21:44 8713 Oct 15 10:44 8713 Oct 18 09:08 8713 Oct 29 03:38 8713 Nov 04 16:14 8713 Nov 05 03:29 8713 Nov 16 21:21	0° Ω 18° Ω 40'44 19° Ω 57'17 25° Ω 24'30 24° Ω 47'11 21° Ω 37'12 20° Ω 34'47 20° Ω 38'58 16° Ω 43'05 16° Ω 22'18 21° Ω 25'39 29° Ω 18'21 0° ጤ 21° ጤ 32'56	0.55500 AU -5°33'50 5°33'36
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	8712 Sep 22 02:16 8712 Sep 25 08:25 8712 Sep 29 09:16 8712 Oct 13 05:40 8712 Oct 18 19:48 8712 Oct 23 20:40 8712 Oct 26 15:46 8712 Oct 26 20:02 8712 Nov 03 22:33 8712 Nov 06 10:02 8712 Nov 15 15:58 8712 Nov 17 19:15 8712 Nov 29 02:26 8712 Dec 02 14:47	4°M.06'10 8°M.24'39 15°M.23'21 14°M.12'51 11°M.29'48 9°M.39'50 9°M.32'49 5°M.31'22 5°M.13'54 9°M.37'52 11°M.53'39 0° 7 6° 753'46	0.57027 AU -5°27'17 5°26'43 19°15'07	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	8713 Aug 28 06:47 8713 Sep 10 20:26 8713 Sep 12 05:32 8713 Sep 24 07:36 8713 Sep 28 10:48 8713 Oct 05 06:02 8713 Oct 07 00:35 8713 Oct 06 21:44 8713 Oct 15 10:44 8713 Oct 18 09:08 8713 Oct 29 03:38 8713 Nov 04 16:14 8713 Nov 05 03:29	0° Ω 18° Ω 40'44 19° Ω 57'17 25° Ω 24'30 24° Ω 47'11 21° Ω 37'12 20° Ω 34'47 20° Ω 38'58 16° Ω 43'05 16° Ω 22'18 21° Ω 25'39 29° Ω 18'21 0° ጤ	0.55500 AU -5°33'50 5°33'36
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	8712 Sep 22 02:16 8712 Sep 25 08:25 8712 Sep 29 09:16 8712 Oct 13 05:40 8712 Oct 18 19:48 8712 Oct 23 20:40 8712 Oct 26 15:46 8712 Oct 26 20:02 8712 Nov 03 22:33 8712 Nov 06 10:02 8712 Nov 15 15:58 8712 Nov 17 19:15 8712 Nov 29 02:26 8712 Dec 02 14:47	4°M.06'10 8°M.24'39 15°M.23'21 14°M.12'51 11°M.29'48 9°M.39'50 9°M.32'49 5°M.31'22 5°M.13'54 9°M.37'52 11°M.53'39 0° ~7 6° ~7 53'46	0.57027 AU -5°27'17 5°26'43 19°15'07	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	8713 Aug 28 06:47 8713 Sep 10 20:26 8713 Sep 12 05:32 8713 Sep 24 07:36 8713 Sep 28 10:48 8713 Oct 05 06:02 8713 Oct 07 00:35 8713 Oct 06 21:44 8713 Oct 15 10:44 8713 Oct 18 09:08 8713 Oct 29 03:38 8713 Nov 04 16:14 8713 Nov 05 03:29 8713 Nov 16 21:21 8713 Nov 20 23:28	0° Ω 18° Ω 40'44 19° Ω 57'17 25° Ω 24'30 24° Ω 47'11 21° Ω 37'12 20° Ω 34'47 20° Ω 38'58 16° Ω 43'05 16° Ω 22'18 21° Ω 25'39 29° Ω 18'21 0° ጤ 21° ጤ 32'56 0° 🗷	0.55500 AU -5°33'50 5°33'36 20°27'44
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	8712 Sep 22 02:16 8712 Sep 25 08:25 8712 Sep 29 09:16 8712 Oct 13 05:40 8712 Oct 18 19:48 8712 Oct 23 20:40 8712 Oct 26 15:46 8712 Oct 26 20:02 8712 Nov 03 22:33 8712 Nov 06 10:02 8712 Nov 15 15:58 8712 Nov 17 19:15 8712 Nov 29 02:26 8712 Dec 02 14:47 8712 Dec 10 18:37 8712 Dec 10 21:38	4°M.06'10 8°M.24'39 15°M.23'21 14°M.12'51 11°M.29'48 9°M.39'50 9°M.32'49 5°M.31'22 5°M.13'54 9°M.37'52 11°M.53'39 0° ~7 6° ~7 53'46 23° ~7 04'20 23° ~7 18'57	0.57027 AU -5°27'17 5°26'43 19°15'07	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	8713 Aug 28 06:47 8713 Sep 10 20:26 8713 Sep 12 05:32 8713 Sep 24 07:36 8713 Sep 28 10:48 8713 Oct 05 06:02 8713 Oct 07 00:35 8713 Oct 06 21:44 8713 Oct 15 10:44 8713 Oct 18 09:08 8713 Oct 29 03:38 8713 Nov 04 16:14 8713 Nov 05 03:29 8713 Nov 16 21:21 8713 Nov 20 23:28	0° Ω 18° Ω 40'44 19° Ω 57'17 25° Ω 24'30 24° Ω 47'11 21° Ω 37'12 20° Ω 34'47 20° Ω 38'58 16° Ω 43'05 16° Ω 22'18 21° Ω 25'39 29° Ω 18'21 0° ጤ 21° ጤ 32'56 0° 🖈 7° 🖈 04'03	0.55500 AU -5°33'50 5°33'36 20°27'44
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong	8712 Sep 22 02:16 8712 Sep 25 08:25 8712 Sep 29 09:16 8712 Oct 13 05:40 8712 Oct 18 19:48 8712 Oct 23 20:40 8712 Oct 26 15:46 8712 Oct 26 20:02 8712 Nov 03 22:33 8712 Nov 06 10:02 8712 Nov 15 15:58 8712 Nov 17 19:15 8712 Nov 29 02:26 8712 Dec 02 14:47 8712 Dec 10 18:37 8712 Dec 10 21:38 8712 Dec 14 09:47	4°M.06'10 8°M.24'39 15°M.23'21 14°M.12'51 11°M.29'48 9°M.39'50 9°M.32'49 5°M.31'22 5°M.13'54 9°M.37'52 11°M.53'39 0° \$\mathref{A}\$ 6° \$\mathref{A}\$'53'46 23° \$\mathref{A}\$'04'20 23° \$\mathref{A}\$'18'57 0° \$\mathref{G}\$	0.57027 AU -5°27'17 5°26'43 19°15'07	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	8713 Aug 28 06:47 8713 Sep 10 20:26 8713 Sep 12 05:32 8713 Sep 24 07:36 8713 Sep 28 10:48 8713 Oct 05 06:02 8713 Oct 07 00:35 8713 Oct 15 10:44 8713 Oct 15 10:44 8713 Oct 18 09:08 8713 Oct 29 03:38 8713 Nov 04 16:14 8713 Nov 05 03:29 8713 Nov 16 21:21 8713 Nov 20 23:28 8713 Nov 24 10:08 8713 Nov 24 12:04	0° Ω 18° Ω40'44 19° Ω57'17 25° Ω24'30 24° Ω47'11 21° Ω37'12 20° Ω34'47 20° Ω38'58 16° Ω43'05 16° Ω22'18 21° Ω25'39 29° Ω18'21 0° ጤ 21° ጤ32'56 0° 🖈 7° 🖈 04'03 7° 🖈 13'53	0.55500 AU -5°33'50 5°33'36 20°27'44 1°33'30 1°33'33
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	8712 Sep 22 02:16 8712 Sep 25 08:25 8712 Sep 29 09:16 8712 Oct 13 05:40 8712 Oct 18 19:48 8712 Oct 23 20:40 8712 Oct 26 15:46 8712 Oct 26 20:02 8712 Nov 03 22:33 8712 Nov 06 10:02 8712 Nov 15 15:58 8712 Nov 17 19:15 8712 Nov 29 02:26 8712 Dec 02 14:47 8712 Dec 10 18:37 8712 Dec 10 21:38 8712 Dec 14 09:47 8712 Dec 17 09:50	4°M.06'10 8°M.24'39 15°M.23'21 14°M.12'51 11°M.29'48 9°M.39'50 9°M.32'49 5°M.31'22 5°M.13'54 9°M.37'52 11°M.53'39 0°\$\mathrightarrow\$\mathrightarro	0.57027 AU -5°27'17 5°26'43 19°15'07	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	8713 Aug 28 06:47 8713 Sep 10 20:26 8713 Sep 12 05:32 8713 Sep 24 07:36 8713 Sep 28 10:48 8713 Oct 05 06:02 8713 Oct 07 00:35 8713 Oct 15 10:44 8713 Oct 15 10:44 8713 Oct 18 09:08 8713 Oct 29 03:38 8713 Nov 04 16:14 8713 Nov 05 03:29 8713 Nov 16 21:21 8713 Nov 20 23:28 8713 Nov 24 10:08 8713 Nov 24 12:04 8713 Nov 29 16:53	0° Ω 18° Ω40'44 19° Ω57'17 25° Ω24'30 24° Ω47'11 21° Ω37'12 20° Ω34'47 20° Ω38'58 16° Ω43'05 16° Ω22'18 21° Ω25'39 29° Ω18'21 0° ጤ 21° ጤ32'56 0° 🖈 7° 🖈 04'03 7° 🖈 13'53 17° 🗷 31'20	0.55500 AU -5°33'50 5°33'36 20°27'44
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong	8712 Sep 22 02:16 8712 Sep 25 08:25 8712 Sep 29 09:16 8712 Oct 13 05:40 8712 Oct 18 19:48 8712 Oct 23 20:40 8712 Oct 26 15:46 8712 Oct 26 20:02 8712 Nov 03 22:33 8712 Nov 06 10:02 8712 Nov 15 15:58 8712 Nov 17 19:15 8712 Nov 29 02:26 8712 Dec 02 14:47 8712 Dec 10 18:37 8712 Dec 10 21:38 8712 Dec 14 09:47	4°M.06'10 8°M.24'39 15°M.23'21 14°M.12'51 11°M.29'48 9°M.39'50 9°M.32'49 5°M.31'22 5°M.13'54 9°M.37'52 11°M.53'39 0° \$\mathref{A}\$ 6° \$\mathref{A}\$'53'46 23° \$\mathref{A}\$'04'20 23° \$\mathref{A}\$'18'57 0° \$\mathref{G}\$	0.57027 AU -5°27'17 5°26'43 19°15'07	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	8713 Aug 28 06:47 8713 Sep 10 20:26 8713 Sep 12 05:32 8713 Sep 24 07:36 8713 Sep 28 10:48 8713 Oct 05 06:02 8713 Oct 07 00:35 8713 Oct 15 10:44 8713 Oct 15 10:44 8713 Oct 18 09:08 8713 Oct 29 03:38 8713 Nov 04 16:14 8713 Nov 05 03:29 8713 Nov 16 21:21 8713 Nov 20 23:28 8713 Nov 24 10:08 8713 Nov 24 12:04	0° Ω 18° Ω40'44 19° Ω57'17 25° Ω24'30 24° Ω47'11 21° Ω37'12 20° Ω34'47 20° Ω38'58 16° Ω43'05 16° Ω22'18 21° Ω25'39 29° Ω18'21 0° ጤ 21° ጤ32'56 0° 🖈 7° 🖈 04'03 7° 🖈 13'53	0.55500 AU -5°33'50 5°33'36 20°27'44 1°33'30 1°33'33
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	8712 Sep 22 02:16 8712 Sep 25 08:25 8712 Sep 29 09:16 8712 Oct 13 05:40 8712 Oct 18 19:48 8712 Oct 23 20:40 8712 Oct 26 15:46 8712 Oct 26 20:02 8712 Nov 03 22:33 8712 Nov 06 10:02 8712 Nov 15 15:58 8712 Nov 17 19:15 8712 Nov 29 02:26 8712 Dec 02 14:47 8712 Dec 10 18:37 8712 Dec 10 21:38 8712 Dec 14 09:47 8712 Dec 17 09:50	4°M.06'10 8°M.24'39 15°M.23'21 14°M.12'51 11°M.29'48 9°M.39'50 9°M.32'49 5°M.31'22 5°M.13'54 9°M.37'52 11°M.53'39 0°\$\mathrightarrow\$\mathrightarro	0.57027 AU -5°27'17 5°26'43 19°15'07	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	8713 Aug 28 06:47 8713 Sep 10 20:26 8713 Sep 12 05:32 8713 Sep 24 07:36 8713 Sep 28 10:48 8713 Oct 05 06:02 8713 Oct 07 00:35 8713 Oct 15 10:44 8713 Oct 15 10:44 8713 Oct 18 09:08 8713 Oct 29 03:38 8713 Nov 04 16:14 8713 Nov 05 03:29 8713 Nov 16 21:21 8713 Nov 20 23:28 8713 Nov 24 10:08 8713 Nov 24 12:04 8713 Nov 29 16:53	0° Ω 18° Ω40'44 19° Ω57'17 25° Ω24'30 24° Ω47'11 21° Ω37'12 20° Ω34'47 20° Ω38'58 16° Ω43'05 16° Ω22'18 21° Ω25'39 29° Ω18'21 0° ጤ 21° ጤ32'56 0° 🖈 7° 🖈 04'03 7° 🖈 13'53 17° 🗷 31'20	0.55500 AU -5°33'50 5°33'36 20°27'44 1°33'30 1°33'33
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	8712 Sep 22 02:16 8712 Sep 25 08:25 8712 Sep 29 09:16 8712 Oct 13 05:40 8712 Oct 18 19:48 8712 Oct 23 20:40 8712 Oct 26 15:46 8712 Oct 26 20:02 8712 Nov 03 22:33 8712 Nov 06 10:02 8712 Nov 15 15:58 8712 Nov 17 19:15 8712 Nov 29 02:26 8712 Dec 02 14:47 8712 Dec 10 18:37 8712 Dec 10 21:38 8712 Dec 14 09:47 8712 Dec 17 09:50 8712 Dec 21 03:56	4°M.06'10 8°M.24'39 15°M.23'21 14°M.12'51 11°M.29'48 9°M.39'50 9°M.32'49 5°M.31'22 5°M.13'54 9°M.37'52 11°M.53'39 0°\$\textstyle{A}\$ 23°\$\textstyle{A}\$04'20 23°\$\textstyle{A}\$18'57 0°\$\textstyle{B}\$ 5°\textstyle{G}\$32'03 12°\$\textstyle{G}\$12'27	0.57027 AU -5°27'17 5°26'43 19°15'07	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	8713 Aug 28 06:47 8713 Sep 10 20:26 8713 Sep 12 05:32 8713 Sep 24 07:36 8713 Sep 28 10:48 8713 Oct 05 06:02 8713 Oct 07 00:35 8713 Oct 15 10:44 8713 Oct 15 10:44 8713 Oct 18 09:08 8713 Oct 29 03:38 8713 Nov 04 16:14 8713 Nov 05 03:29 8713 Nov 16 21:21 8713 Nov 20 23:28 8713 Nov 24 10:08 8713 Nov 24 10:08 8713 Nov 29 16:53 8713 Dec 03 13:56	0° Ω 18° Ω40'44 19° Ω57'17 25° Ω24'30 24° Ω47'11 21° Ω37'12 20° Ω34'47 20° Ω38'58 16° Ω43'05 16° Ω22'18 21° Ω25'39 29° Ω18'21 0° ጤ 21° ጤ32'56 0° ズ 7° ズ 04'03 7° ズ 13'53 17° ズ 31'20 24° ズ 48'37	0.55500 AU -5°33'50 5°33'36 20°27'44 1°33'30 1°33'33
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	8712 Sep 22 02:16 8712 Sep 25 08:25 8712 Sep 29 09:16 8712 Oct 13 05:40 8712 Oct 18 19:48 8712 Oct 23 20:40 8712 Oct 26 15:46 8712 Oct 26 20:02 8712 Nov 03 22:33 8712 Nov 06 10:02 8712 Nov 15 15:58 8712 Nov 17 19:15 8712 Nov 29 02:26 8712 Dec 02 14:47 8712 Dec 10 18:37 8712 Dec 10 21:38 8712 Dec 14 09:47 8712 Dec 17 09:50 8712 Dec 21 03:56 8712 Dec 22 07:17	4°M.06'10 8°M.24'39 15°M.23'21 14°M.12'51 11°M.29'48 9°M.39'50 9°M.32'49 5°M.31'22 5°M.13'54 9°M.37'52 11°M.53'39 0°\$\textit{\$\textit{a}\$}' \textit{a}\$'	0.57027 AU -5°27'17 5°26'43 19°15'07	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	8713 Aug 28 06:47 8713 Sep 10 20:26 8713 Sep 12 05:32 8713 Sep 24 07:36 8713 Sep 28 10:48 8713 Oct 05 06:02 8713 Oct 07 00:35 8713 Oct 06 21:44 8713 Oct 15 10:44 8713 Oct 18 09:08 8713 Oct 29 03:38 8713 Nov 04 16:14 8713 Nov 05 03:29 8713 Nov 16 21:21 8713 Nov 20 23:28 8713 Nov 24 10:08 8713 Nov 24 12:04 8713 Nov 29 16:53 8713 Dec 03 13:56 8713 Dec 06 11:02	0° Ω 18° Ω40'44 19° Ω57'17 25° Ω24'30 24° Ω47'11 21° Ω37'12 20° Ω34'47 20° Ω38'58 16° Ω43'05 16° Ω22'18 21° Ω25'39 29° Ω18'21 0° ጤ 21° ጤ32'56 0° ズ 7° ズ 04'03 7° ズ 13'53 17° ズ 31'20 24° ズ 48'37 0° ጜ	0.55500 AU -5°33'50 5°33'36 20°27'44 1°33'30 1°33'33
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	8712 Sep 22 02:16 8712 Sep 25 08:25 8712 Sep 29 09:16 8712 Oct 13 05:40 8712 Oct 18 19:48 8712 Oct 23 20:40 8712 Oct 26 15:46 8712 Oct 26 20:02 8712 Nov 03 22:33 8712 Nov 06 10:02 8712 Nov 15 15:58 8712 Nov 17 19:15 8712 Nov 29 02:26 8712 Dec 02 14:47 8712 Dec 10 18:37 8712 Dec 10 21:38 8712 Dec 14 09:47 8712 Dec 17 09:50 8712 Dec 22 07:17 8712 Dec 31 23:53	4°M.06'10 8°M.24'39 15°M.23'21 14°M.12'51 11°M.29'48 9°M.39'50 9°M.32'49 5°M.31'22 5°M.13'54 9°M.37'52 11°M.53'39 0° ₹7 6°₹53'46 23°₹04'20 23°₹18'57 0°₹53'2'03 12°₹12'27 14°₹10'43 0°≈ 0°¥	0.57027 AU -5°27'17 5°26'43 19°15'07	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	8713 Aug 28 06:47 8713 Sep 10 20:26 8713 Sep 10 20:26 8713 Sep 12 05:32 8713 Sep 24 07:36 8713 Sep 28 10:48 8713 Oct 05 06:02 8713 Oct 07 00:35 8713 Oct 15 10:44 8713 Oct 18 09:08 8713 Oct 29 03:38 8713 Nov 04 16:14 8713 Nov 05 03:29 8713 Nov 16 21:21 8713 Nov 20 23:28 8713 Nov 24 10:08 8713 Nov 24 10:08 8713 Nov 29 16:53 8713 Dec 03 13:56 8713 Dec 06 11:02 8713 Dec 09 04:17	0° Ω 18° Ω 40'44 19° Ω 57'17 25° Ω 24'30 24° Ω 47'11 21° Ω 37'12 20° Ω 34'47 20° Ω 38'58 16° Ω 43'05 16° Ω 22'18 21° Ω 25'39 29° Ω 18'21 0° M 21° M 32'56 0° ズ 7° ズ 04'03 7° ズ 13'53 17° ズ 31'20 24° ズ 48'37 0° ℧ 4° ℧ 43'42	0.55500 AU -5°33'50 5°33'36 20°27'44 1°33'30 1°33'33 1.36304 AU
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	8712 Sep 22 02:16 8712 Sep 25 08:25 8712 Sep 29 09:16 8712 Oct 13 05:40 8712 Oct 18 19:48 8712 Oct 23 20:40 8712 Oct 26 15:46 8712 Oct 26 20:02 8712 Nov 03 22:33 8712 Nov 06 10:02 8712 Nov 15 15:58 8712 Nov 17 19:15 8712 Nov 29 02:26 8712 Dec 02 14:47 8712 Dec 10 18:37 8712 Dec 10 21:38 8712 Dec 14 09:47 8712 Dec 17 09:50 8712 Dec 21 03:56 8712 Dec 21 03:56 8712 Dec 31 23:53 8713 Jan 23 05:36 8713 Jan 25 14:37	4°M.06'10 8°M.24'39 15°M.23'21 14°M.12'51 11°M.29'48 9°M.39'50 9°M.32'49 5°M.31'22 5°M.13'54 9°M.37'52 11°M.53'39 0° ₹ 6°₹53'46 23°₹04'20 23°₹18'57 0°℧ 5°℧32'03 12°℧12'27 14°℧10'43 0°‰ 0°ℋ 2° ₩27'41	0.57027 AU -5°27'17 5°26'43 19°15'07 1°19'06 1°18'59 1.38390 AU	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	8713 Aug 28 06:47 8713 Sep 10 20:26 8713 Sep 10 20:26 8713 Sep 12 05:32 8713 Sep 24 07:36 8713 Sep 28 10:48 8713 Oct 05 06:02 8713 Oct 07 00:35 8713 Oct 15 10:44 8713 Oct 18 09:08 8713 Oct 29 03:38 8713 Nov 04 16:14 8713 Nov 05 03:29 8713 Nov 16 21:21 8713 Nov 20 23:28 8713 Nov 24 10:08 8713 Nov 24 10:08 8713 Nov 24 12:04 8713 Nov 29 16:53 8713 Dec 03 13:56 8713 Dec 06 11:02 8713 Dec 09 04:17 8713 Dec 25 13:55 8714 Jan 08 03:45	0° £ 18° £40'44 19° £57'17 25° £24'30 24° £47'11 21° £37'12 20° £34'47 20° £38'58 16° £22'18 21° £25'39 29° £18'21 0° M 21° M.32'56 0° ♣7 7° ♣704'03 7° ♣713'53 17° ♣731'20 24° ♣748'37 0° ♂ 4° ♂43'42 0° € 16° ≈14'57	0.55500 AU -5°33'50 5°33'36 20°27'44 1°33'30 1°33'33 1.36304 AU
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	8712 Sep 22 02:16 8712 Sep 25 08:25 8712 Sep 29 09:16 8712 Oct 13 05:40 8712 Oct 18 19:48 8712 Oct 23 20:40 8712 Oct 26 15:46 8712 Oct 26 20:02 8712 Nov 03 22:33 8712 Nov 06 10:02 8712 Nov 15 15:58 8712 Nov 17 19:15 8712 Nov 29 02:26 8712 Dec 02 14:47 8712 Dec 10 18:37 8712 Dec 10 21:38 8712 Dec 14 09:47 8712 Dec 17 09:50 8712 Dec 21 03:56 8712 Dec 21 03:56 8712 Dec 31 23:53 8713 Jan 23 05:36 8713 Jan 25 14:37 8713 Feb 06 08:48	4°M.06'10 8°M.24'39 15°M.23'21 14°M.12'51 11°M.29'48 9°M.39'50 9°M.32'49 5°M.31'22 5°M.13'54 9°M.37'52 11°M.53'39 0° 🛪 6° 🛪 53'46 23° 🛪 04'20 23° 🛪 18'57 0° 🛪 5° 532'03 12° 512'27 14° 510'43 0° 📾 0° 升 2° 升 27'41 9° 升 18'30	0.57027 AU -5°27'17 5°26'43 19°15'07 1°19'06 1°18'59 1.38390 AU	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong 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	8713 Aug 28 06:47 8713 Sep 10 20:26 8713 Sep 10 20:26 8713 Sep 12 05:32 8713 Sep 24 07:36 8713 Sep 28 10:48 8713 Oct 05 06:02 8713 Oct 07 00:35 8713 Oct 15 10:44 8713 Oct 18 09:08 8713 Oct 29 03:38 8713 Nov 04 16:14 8713 Nov 05 03:29 8713 Nov 16 21:21 8713 Nov 20 23:28 8713 Nov 24 10:08 8713 Nov 24 12:04 8713 Nov 29 16:53 8713 Dec 03 13:56 8713 Dec 06 11:02 8713 Dec 09 04:17 8713 Dec 25 13:55 8714 Jan 08 03:45 8714 Jan 08 03:45 8714 Jan 20 18:30	0° £ 18° £40'44 19° £57'17 25° £24'30 24° £47'11 21° £37'12 20° £34'47 20° £38'58 16° £22'18 21° £25'39 29° £18'21 0° M 21° M.32'56 0° ♂ 7° ♂04'03 7° ♂13'53 17° ♂31'20 24° ♂48'37 0° ♂ 4° ♂43'42 0° ≈ 16° ≈14'57 23° ≈25'53	0.55500 AU -5°33'50 5°33'36 20°27'44 1°33'30 1°33'33 1.36304 AU
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong 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	8712 Sep 22 02:16 8712 Sep 25 08:25 8712 Sep 29 09:16 8712 Oct 13 05:40 8712 Oct 18 19:48 8712 Oct 23 20:40 8712 Oct 26 15:46 8712 Oct 26 20:02 8712 Nov 03 22:33 8712 Nov 06 10:02 8712 Nov 15 15:58 8712 Nov 17 19:15 8712 Nov 29 02:26 8712 Dec 02 14:47 8712 Dec 10 18:37 8712 Dec 10 21:38 8712 Dec 14 09:47 8712 Dec 17 09:50 8712 Dec 21 03:56 8712 Dec 22 07:17 8712 Dec 31 23:53 8713 Jan 23 05:36 8713 Jan 25 14:37 8713 Feb 06 08:48 8713 Feb 11 23:41	4°M.06'10 8°M.24'39 15°M.23'21 14°M.12'51 11°M.29'48 9°M.39'50 9°M.32'49 5°M.31'22 5°M.13'54 9°M.37'52 11°M.53'39 0° 🛪 6° 🛪 53'46 23° 🛪 04'20 23° 🛪 18'57 0° उ 5° उ32'03 12° उ12'27 14° उ10'43 0° ≈ 0° 升 2° 升 27'41 9° 升 18'30 6° 升 58'06	0.57027 AU -5°27'17 5°26'43 19°15'07 1°19'06 1°18'59 1.38390 AU	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong 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	8713 Aug 28 06:47 8713 Sep 10 20:26 8713 Sep 10 20:26 8713 Sep 12 05:32 8713 Sep 24 07:36 8713 Sep 28 10:48 8713 Oct 05 06:02 8713 Oct 07 00:35 8713 Oct 15 10:44 8713 Oct 15 10:44 8713 Oct 18 09:08 8713 Oct 29 03:38 8713 Nov 04 16:14 8713 Nov 05 03:29 8713 Nov 16 21:21 8713 Nov 20 23:28 8713 Nov 24 10:08 8713 Nov 24 12:04 8713 Nov 29 16:53 8713 Dec 03 13:56 8713 Dec 06 11:02 8713 Dec 09 04:17 8713 Dec 25 13:55 8714 Jan 08 03:45 8714 Jan 20 18:30 8714 Jan 26 21:45	0° £ 18° £40'44 19° £57'17 25° £24'30 24° £47'11 21° £37'12 20° £34'47 20° £38'58 16° £22'18 21° £25'39 29° £18'21 0° M 21° M.32'56 0° ♂ 7° ♂04'03 7° ♂13'53 17° ♂31'20 24° ♂48'37 0° ♂ 4° ♂43'42 0° ≈ 16° ≈14'57 23° ≈25'53 20° ≈55'42	0.55500 AU -5°33'50 5°33'36 20°27'44 1°33'30 1°33'33 1.36304 AU
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	8712 Sep 22 02:16 8712 Sep 25 08:25 8712 Sep 29 09:16 8712 Oct 13 05:40 8712 Oct 18 19:48 8712 Oct 23 20:40 8712 Oct 26 15:46 8712 Oct 26 20:02 8712 Nov 03 22:33 8712 Nov 06 10:02 8712 Nov 15 15:58 8712 Nov 17 19:15 8712 Nov 29 02:26 8712 Dec 02 14:47 8712 Dec 10 18:37 8712 Dec 10 21:38 8712 Dec 14 09:47 8712 Dec 17 09:50 8712 Dec 21 03:56 8712 Dec 21 03:56 8712 Dec 31 23:53 8713 Jan 23 05:36 8713 Jan 25 14:37 8713 Feb 06 08:48	4°M.06'10 8°M.24'39 15°M.23'21 14°M.12'51 11°M.29'48 9°M.39'50 9°M.32'49 5°M.31'22 5°M.13'54 9°M.37'52 11°M.53'39 0° 🛪 6° 🛪 53'46 23° 🛪 04'20 23° 🛪 18'57 0° 🛪 5° ♂ 32'03 12° ♂ 12'27 14° ♂ 10'43 0° ≈ 0° ※ 2° ※ 12'27 14° ♂ 10'43 0° ≈ 0° ※ 2° ※ 18'30 6° ※ 58'06 5° ※ 14'00	0.57027 AU -5°27'17 5°26'43 19°15'07 1°19'06 1°18'59 1.38390 AU	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong 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	8713 Aug 28 06:47 8713 Sep 10 20:26 8713 Sep 10 20:26 8713 Sep 12 05:32 8713 Sep 24 07:36 8713 Sep 28 10:48 8713 Oct 05 06:02 8713 Oct 07 00:35 8713 Oct 15 10:44 8713 Oct 18 09:08 8713 Oct 29 03:38 8713 Nov 04 16:14 8713 Nov 05 03:29 8713 Nov 16 21:21 8713 Nov 20 23:28 8713 Nov 24 10:08 8713 Nov 24 12:04 8713 Nov 29 16:53 8713 Dec 03 13:56 8713 Dec 06 11:02 8713 Dec 09 04:17 8713 Dec 25 13:55 8714 Jan 08 03:45 8714 Jan 08 03:45 8714 Jan 20 18:30	0° £ 18° £40'44 19° £57'17 25° £24'30 24° £47'11 21° £37'12 20° £34'47 20° £38'58 16° £22'18 21° £25'39 29° £18'21 0° M 21° M.32'56 0° ♂ 7° ♂04'03 7° ♂13'53 17° ♂31'20 24° ♂48'37 0° ♂ 4° ♂43'42 0° ≈ 16° ≈14'57 23° ≈25'53	0.55500 AU -5°33'50 5°33'36 20°27'44 1°33'30 1°33'33 1.36304 AU

evening max el	8715 Dec 04 05:43	13° る 18'39	27°25'08		8716 Nov 20 06:34	0°₹	
retrograde	8715 Dec 04 05:45 8715 Dec 17 20:01	19 3 1839 20° 3 38'18	27 23 00	retrograde	8716 Nov 29 10:35	3° る 25'35	
evening set	8715 Dec 24 19:01	18° る 04'34		evening set	8716 Dec 06 12:48	1°る02'23	
min. Earth dist.	8715 Dec 28 14:07	18 3 0434	0.64136 AU	evening set	8716 Dec 00 12:48 8716 Dec 07 23:23	1 002 23 30°R ₹	
inferior conj	8715 Dec 31 02:06	14°る40'37		min. Earth dist.	8716 Dec 07 25:25 8716 Dec 10 05:09	28° ₹ 06'36	0.62252 AU
minimum elong	8715 Dec 31 02:00	12 3 0408	1°44'28	inferior conj	8716 Dec 10 03:09 8716 Dec 13 03:21	25° × 23'06	
asc. node	8716 Jan 05 09:36	7° る 22'13	1 44 28	minimum elong	8716 Dec 13 09:00		2°54'25
morning rise	8716 Jan 06 17:29	6°る41'29		morning rise	8716 Dec 13 09:00 8716 Dec 20 07:25	20° × 18'16	2 34 23
direct	8716 Jan 09 04:56	6°る10'35		asc. node	8716 Dec 20 07:23 8716 Dec 22 06:40	19° × 55'50	
morning max el	8716 Jan 15 16:10	9° る 32'44	17°51'01	direct	8716 Dec 22 13:46	19° х 55'26	
morning max er	8716 Jan 29 13:07	9° ≈	1/ 3101				17°49'06
		0°≈ 5°≈03'39		morning max el	8716 Dec 29 09:07 8717 Jan 03 14:57	23° メ 23'18 0°る	17-49-06
morning set	8716 Feb 01 12:44					0°る 18°る00'25	
desc. node	8716 Feb 08 21:46	17° ≈ 27'39		morning set	8717 Jan 14 05:34		
	0716F1 14 15 24	26051142	0041102		8717 Jan 21 00:28	0° ≈	
superior conj	8716 Feb 14 15:34	26°≈51'42		:	0717 I 25 11.47	79 4012 5	0002100
minimum elong	8716 Feb 14 10:57	26°≈33'03	0°40'15	superior conj	8717 Jan 25 11:47	7°≈40'35	0°02'09
and the second	8716 Feb 16 14:20	0°) (11124	1 11050 177	minimum elong	8717 Jan 25 12:00	7°≈41'32	0°02'19
max. Earth dist.	8716 Feb 19 20:31	5°) 11′24	1.44870 AU	behind sun begin	8717 Jan 25 03:15	7°≈04'28	
evening rise	8716 Mar 01 11:41	21°) (44'41		behind sun end	8717 Jan 25 20:45	8°≈18'32	
	8716 Mar 06 21:38	0° Υ		desc. node	8717 Jan 25 18:45	8° ≈ 10′05	
	8716 Mar 28 10:26	0°8		max. Earth dist.	8717 Feb 01 12:46	19° ≈ 19'42	1.43569 AU
evening max el	8716 Mar 29 03:19	0° 8 44'02	20°19'04		8717 Feb 08 05:59	0° ∀	
asc. node	8716 Apr 02 08:26	4° 8 11'25		evening rise	8717 Feb 09 01:26	1° 升 15′40	
retrograde	8716 Apr 06 00:46	5° 8 19'32			8717 Feb 28 11:26	0 ° $\mathbf{\Upsilon}$	
evening set	8716 Apr 09 23:01	3° 8 50'26		evening max el	8717 Mar 12 00:46	14° Ƴ 23'57	21°29'19
	8716 Apr 13 14:25	30° ₹Ƴ		asc. node	8717 Mar 20 05:34	19° Ƴ 37'51	
inferior conj	8716 Apr 15 06:45	27° Ƴ 45'19	3°11'02	retrograde	8717 Mar 20 23:01	19° Ƴ 40′32	
minimum elong	8716 Apr 15 05:20	27° Ƴ 50′08	3°10'45	evening set	8717 Mar 25 07:14	17° Ƴ 56'15	
min. Earth dist.	8716 Apr 16 00:53	26° Ƴ 43'29	0.67750 AU	inferior conj	8717 Mar 30 14:30	11° Y 39'58	2°49'49
morning rise	8716 Apr 20 11:25	21° Y 28'39		minimum elong	8717 Mar 30 12:28	11° Ƴ 47'02	2°49'21
direct	8716 Apr 26 03:23	18° Ƴ 57'10		min. Earth dist.	8717 Mar 30 19:33	11° Y 22'22	0.68321 AU
desc. node	8716 May 06 21:41	25° Y 08′10		morning rise	8717 Apr 04 17:30	5° Y 26'41	
morning max el	8716 May 07 13:24	25° Ƴ 47'19	24°31'11	direct	8717 Apr 09 19:47	3° Ƴ 13'33	
	8716 May 11 09:49	0° ႘		morning max el	8717 Apr 19 23:19	9° Ƴ 14'41	23°01'20
	8716 Jun 01 19:17	0° I I		desc. node	8717 Apr 23 18:38	13° Y 24'54	
morning set	8716 Jun 12 09:22	17° Ⅱ 36'38			8717 May 06 06:31	0°8	
max. Earth dist.	8716 Jun 16 00:37	24° Ⅱ 05'21	1.37550 AU	morning set	8717 May 24 12:24	28° 8 16'35	
	8716 Jun 19 05:35	0°50		3	8717 May 25 13:11	0°II	
	0,1000	¥ -		max. Earth dist.	8717 May 28 20:52		1.39800 AU
superior conj	8716 Jun 22 22:00	7° © 00'41	-0°59'59	man. Darun dige.	0/1/11/11/11/20 20:02	2 230 20	1.59000110
minimum elong	8716 Jun 23 01:45	7°9518'50		superior conj	8717 Jun 05 14:09	19° Ⅱ 22'24	-1°30'52
asc. node	8716 Jun 29 07:26	19° 9 37'17	0 0,02	minimum elong	8717 Jun 05 19:41	19° Ⅱ 47'52	
evening rise	8716 Jul 01 13:07	24°905'02		minimum ciong	8717 Jun 11 06:24	0°95	1 3021
evening rise	8716 Jul 04 13:13	0°Ω		evening rise	8717 Jun 11 00:24 8717 Jun 15 06:29	7° 9 39'12	
evening max el	8716 Jul 18 05:48	21° Ω 18'39	19°15'00	asc. node	8717 Jun 15 00:29	9° © 24'12	
retrograde	8716 Jul 27 10:03	25° Ω 51'13	17 13 00	asc. node	8717 Jun 28 06:26	0°Ω	
evening set	8716 Jul 29 06:59	25° Ω 40'40		evening max el	8717 Jul		18°32'08
desc. node	8716 Aug 02 20:54	23° Ω 57'20		retrograde	8717 Jul 09 03:34	7° Ω 26'55	18 32 08
inferior conj	8716 Aug 02 20:54 8716 Aug 06 19:54	23 δι 37 20 21° Ω 30'36	1012100	evening set	8717 Jul 11 06:03	7° Ω 10'50	
	8716 Aug 06 16:40	21° Ω 35'59		-	8717 Jul 11 00:03	2° Ω 41'56	0°31'46
minimum elong		21 δί 33 39 19° Ω 42'41		inferior conj	8717 Jul 18 23.23 8717 Jul 19 00:34	2° Ω 39'42	0°31'09
min. Earth dist.	8716 Aug 09 13:01		0.55964 AU	minimum elong			0-31-09
morning rise	8716 Aug 14 23:29	16° Ω 49'03		desc. node	8717 Jul 20 18:00	1° £ 18'37	
direct	8716 Aug 20 01:38	15° Ω 49'39	25020150		8717 Jul 22 11:23	30°R≌	0.55555
morning max el	8716 Sep 03 04:52	22° Ω 59'43	25°28'50	min. Earth dist.	8717 Jul 22 07:16	0° Ω 07'36	0.57757 AU
	8716 Sep 09 11:34	0°M)		morning rise	8717 Jul 26 15:33	27° © 23'27	
asc. node	8716 Sep 25 07:06	25° m 42'57		direct	8717 Aug 01 12:51	25° © 55'17	
•	8716 Sep 27 10:21	0° ⊽			8717 Aug 11 19:16	0° Ω	26052101
morning set	8716 Sep 30 06:34	5° £ 56'37		morning max el	8717 Aug 15 21:51	3° Ω 32'42	26~52'01
	05166 05 55	200 2 5	100 41	_	8717 Sep 04 01:58	0° Т р	
superior conj	8716 Oct 07 03:13	20° £ 56'36		asc. node	8717 Sep 12 04:04	15° m 22'07	
minimum elong	8716 Oct 07 01:42	20° ≏ 48'11	1°34'19	morning set	8717 Sep 14 16:18	20° m 35'44	
max. Earth dist.	8716 Oct 08 09:36	23° △ 43'39	1.32162 AU		8717 Sep 19 00:22	0∘ ⊽	
	8716 Oct 11 06:54	0°M₊					
evening rise	8716 Oct 14 05:22	6°M11'47		superior conj	8717 Sep 21 14:56	5° £ 46'44	
	8716 Oct 26 22:29	0°⊀		minimum elong	8717 Sep 21 12:50	5° £ 35′04	1°22'39
desc. node	8716 Oct 29 19:31	4° ₹ 39'16		max. Earth dist.	8717 Sep 21 18:47	6° ≙ 08'04	1.31673 AU
evening max el	8716 Nov 15 15:13	26° х 10′02	27°25'49	evening rise	8717 Sep 28 10:48	20° ≏ 41'39	

	8717 Oct 02 23:51	0° M .			8718 Sep 25 17:27	0°M	
desc. node	8717 Oct 02 25:31 8717 Oct 16 16:38	23°M34'50		desc. node	8718 Oct 03 13:45	11°M36'26	
dese. node	8717 Oct 21 08:50	0° x ⁷		evening max el	8718 Oct 10 15:42	19°M36'49	25°47'25
evening max el	8717 Oct 28 19:15	8° × 18'41	26°53'03	retrograde	8718 Oct 24 13:54	26°M39'29	20 17 20
retrograde	8717 Nov 11 17:15	15° ∡ ¹28'15		evening set	8718 Oct 30 18:56	25°M09'04	
evening set	8717 Nov 18 14:26	13° х 26′30		min. Earth dist.	8718 Nov 04 04:17	22°M33'02	0.58114 AU
min. Earth dist.	8717 Nov 22 09:37	10° ∡ 748′22	0.60182 AU	inferior conj	8718 Nov 07 06:11	20°M21'50	-5°04'46
inferior conj	8717 Nov 25 13:53	8° ҂ 12′29	-4°06'15	minimum elong	8718 Nov 07 12:45	20°M10'08	5°03'24
minimum elong	8717 Nov 25 21:12	7° ∡ 757′29	4°03'55	morning rise	8718 Nov 15 08:54	16°M00'10	
morning rise	8717 Dec 03 06:26	3° ҂ ¹28'22		direct	8718 Nov 17 16:16	15°M43'16	
direct	8717 Dec 05 10:57	3° ₹ 10'08		morning max el	8718 Nov 26 04:19	19° M 49'44	18°43'32
asc. node	8717 Dec 09 03:42	4° ≯ 04'48		asc. node	8718 Nov 26 00:43	19° M 41'08	
morning max el	8717 Dec 12 22:26	6° ₹ 152'45	18°06'02		8718 Dec 03 19:25	0° ₹	
	8717 Dec 27 16:36	0°ರ		morning set	8718 Dec 12 10:39	15° ₹ '54'28	
morning set	8717 Dec 28 14:34	1° る 42'30			8718 Dec 19 17:00	5°0	
superior conj	8718 Jan 07 08:48	19° る 40'16	0°38'56	superior conj	8718 Dec 21 02:08	2° る 37'01	1°07'00
minimum elong	8718 Jan 07 11:37	19° る 52'51	0°38'43	minimum elong	8718 Dec 21 05:28	2° る 52'42	1°06'47
desc. node	8718 Jan 12 15:41	28° る 54'41		max. Earth dist.	8718 Dec 28 07:10	15° る 45'18	1.39647 AU
	8718 Jan 13 07:00	0° ≈		desc. node	8718 Dec 30 12:40	19° る 37'48	
max. Earth dist.	8718 Jan 15 00:03	2° ≈ 53'14	1.41757 AU	evening rise	8719 Jan 01 07:43	22° る 41'10	
evening rise	8718 Jan 20 05:58	11° ≈ 30′05			8719 Jan 05 17:57	0° ≈	
	8718 Feb 01 06:05	0° ℋ			8719 Jan 26 04:40	0°) €	
evening max el	8718 Feb 22 17:42	28°) €06′29	22°47'23	evening max el	8719 Feb 05 07:55	11°) € 52'23	24°07'34
	8718 Feb 24 17:37	0 ° $\mathbf{\gamma}$		retrograde	8719 Feb 16 12:03	18° ¥ 25'55	
retrograde	8718 Mar 04 19:14	4° Ƴ 04'20		evening set	8719 Feb 21 19:39	16°) 12′55	
asc. node	8718 Mar 07 02:40	3° Ƴ 37'44		asc. node	8719 Feb 21 23:46	16°) (04′01	
evening set	8718 Mar 09 14:38	2° Y 05'14		min. Earth dist.	8719 Feb 26 12:36	10°) (47'44	0.68194 AU
	8718 Mar 11 16:20	30° ₹ ₩		inferior conj	8719 Feb 27 07:17	9°) 44′35	1°39'42
inferior conj	8718 Mar 14 23:18	25°) 41′00	2°19'09	minimum elong	8719 Feb 27 05:17	9° 升 51′21	1°39'06
minimum elong	8718 Mar 14 21:04	25°) 48'47	2°18'32	morning rise	8719 Mar 04 14:57	3°) 42′30	
min. Earth dist.	8718 Mar 14 16:15	26°) €05'29	0.68464 AU	direct	8719 Mar 08 14:07	2°) (13′06	
morning rise	8718 Mar 20 03:22	19° ∺ 32'30		morning max el	8719 Mar 16 09:24	6° ₩ 38'10	20°18'26
direct	8718 Mar 24 15:47	17°) 40′57		desc. node	8719 Mar 28 12:28	22°) €04'41	
morning max el	8718 Apr 02 12:55	22° 升 50′38	21°34'47		8719 Apr 02 22:32	0° Y	
	8718 Apr 08 17:52	0 ° $\mathbf{\gamma}$		morning set	8719 Apr 13 13:49	16° Y ′08′25	
desc. node	8718 Apr 10 15:33	2° Y 28'03			8719 Apr 22 09:33	$0^{\circ}S$	
	8718 Apr 29 14:25	$0^{\circ}S$		max. Earth dist.	8719 Apr 23 05:23	1° 8 19'23	1.43773 AU
morning set	8718 May 04 12:01	7° 8 40'42					
max. Earth dist.	8718 May 10 21:15		1.41967 AU	superior conj	8719 Apr 29 07:21	11° 8 13'05	
	8718 May 17 23:16	Π $^{\circ}0$		minimum elong	8719 Apr 29 09:39	11° 8 22'34	2°10'59
					8719 May 10 09:16	0°П	
superior conj	8718 May 18 10:37	0° ∏ 49'12		evening rise	8719 May 11 23:19	2° ∏ 45'12	
minimum elong	8718 May 18 16:18	1° Ⅱ 13'56	1°56'08	asc. node	8719 May 20 22:33	18° ∏ 05'50	
evening rise	8718 May 29 11:23	20° Ⅲ 35'53		evening max el	8719 May 29 07:19	29° ∏ 34′06	18°06'08
asc. node	8718 Jun 03 01:30	28° Ⅱ 55'34		_	8719 May 29 18:06	0.2	
	8718 Jun 03 15:58	0°9		retrograde	8719 Jun 04 17:44	2°954'37	
evening max el	8718 Jun 14 18:13	16°922'11	18°09'29	evening set	8719 Jun 07 11:29	2°©17'13	
retrograde	8718 Jun 21 15:18	19° © 51'08			8719 Jun 10 20:34	30°RⅡ	
evening set	8718 Jun 24 01:30	19°525'41	1050122	inferior conj	8719 Jun 13 19:07	27° Ⅱ 08'16	
inferior conj	8718 Jul 01 00:13	14°936'21	1°50'33	minimum elong	8719 Jun 13 21:49	27° I 101'14	
minimum elong	8718 Jul 01 03:08	14°929'44	1°49'28	min. Earth dist.	8719 Jun 16 17:33	24° Ⅱ 06'38	0.62188 AU
min. Earth dist.	8718 Jul 04 08:14	11°936'17	0.59943 AU	morning rise	8719 Jun 20 06:16	21° I I02'37	
desc. node	8718 Jul 07 15:04	9°505'56		desc. node direct	8719 Jun 24 12:06	18° ∏ 56'32	
morning rise	8718 Jul 08 01:51	8°549'03			8719 Jun 27 00:02	18° ∏ 36'58	27955127
direct	8718 Jul 14 13:13	6°549'33	27°42'43	morning max el	8719 Jul 11 03:05	26°∏38'40 0°©	27°55'27
morning max el	8718 Jul 28 21:25	14° © 43'38 0° Ω	41 4443		8719 Jul 14 06:31	0₀V 0⊶3	
	8718 Aug 10 05:24	0° m y		morning sot	8719 Aug 03 20:28	0°37 19° Ω 08'58	
morning set	8718 Aug 27 11:39 8718 Aug 29 22:27	0°110/ 5°10∤01'39		morning set asc. node	8719 Aug 13 23:05 8719 Aug 16 21:57	19°8708′38 25°Ω16′39	
morning set asc. node	8718 Aug 29 22:27 8718 Aug 30 01:00	5° Mp 14'58		asc. Hour	8719 Aug 16 21:57 8719 Aug 19 03:02	0° m	
max. Earth dist.	8718 Sep 05 04:33	18° Mp 31'42	1.31654 AU	max. Earth dist.	8719 Aug 19 03.02 8719 Aug 19 11:12	0°Mg/44′01	1.32107 AU
man. Barui uist.	3/10 BCP 03 04.33	10 III 3142	1.51054 AU	max. Earm Uist.	5/17 Aug 17 11.12	U PPyll U	1.5210/ AU
superior conj	8718 Sep 06 02:23	20° m 32'31	1°06'19	superior conj	8719 Aug 21 11:49	5° Mp 08'31	0°45'01
minimum elong	8718 Sep 06 02:23	-		minimum elong	8719 Aug 21 11:49 8719 Aug 21 09:57	4° Mp 58'18	0°44'32
	8718 Sep 10 09:04	20 M 20 07 0° Ω		evening rise	8719 Aug 28 07:32	20° Mp 02'17	-
evening rise	8718 Sep 10 05:04	5° £ 20'25		2.2	8719 Sep 02 02:54	20 ಗ್ಗು02 17 0° <u>೧</u>	
	20p 12 20.10	2023			20p 02 02.01	- -	

desc. node	8719 Sep 20 10:52	28° ჲ 23'02			9720 Aug 00 14:22	0° m)	
evening max el	8719 Sep 20 10.32 8719 Sep 22 04:52	0°M09'24	24°17'02	evening rise	8720 Aug 09 14:32 8720 Aug 11 18:57	راتان 4° الل 40'34	
evening max er	8719 Sep 22 00:58	0°M	24 17 02	evening rise	8720 Aug 11 18.37 8720 Aug 25 09:26	0∘ ⊽	
retrograde	8719 Oct 05 22:25	7°ML02'29		evening max el	8720 Aug 23 09:20 8720 Sep 02 16:24	0 <u>=</u> 10° <u>₽</u> 20'22	22037123
evening set	8719 Oct 03 22:23 8719 Oct 10 22:44	6°M07'04		desc. node	8720 Sep 06 07:59	13° ⊆ 26'24	22 31 23
min. Earth dist.	8719 Oct 16 22:44 8719 Oct 16 15:40	3°M14'42	0.56310 AU	retrograde	8720 Sep 15 18:50	16° ⊆ 52'36	
inferior conj	8719 Oct 19 13:40	1°M43'56		evening set	8720 Sep 19 06:52	16° ⊆ 25'40	
minimum elong	8719 Oct 19 02:00	1°M41'28		min. Earth dist.	8720 Sep 26 23:47	10 2 59 40	0.55068 AU
minimum clong	8719 Oct 21 23:24	30°R Ω	3 33 40	inferior conj	8720 Sep 28 03:44	12° ⊆ 20'09	
morning rise	8719 Oct 27 10:49	27° £ 43'33		minimum elong	8720 Sep 27 21:41	12° 2 28'46	
direct	8719 Oct 27 10:49 8719 Oct 30 02:35	27° - 24'53		morning rise	8720 Oct 06 14:26	8° ₽ 32'10	3 1741
direct	8719 Nov 06 11:12	0°M		direct	8720 Oct 09 18:53	8° ⊡ 09'00	
morning max el	8719 Nov 08 23:14	2°M04'24	19°43'15	morning max el	8720 Oct 07 18:33 8720 Oct 21 05:11	13° ⊆ 30'30	21°05'13
asc. node	8719 Nov 12 21:41	6°M30'35	17 43 13	asc. node	8720 Oct 29 18:39	24° 2 17'41	21 03 13
asc. node	8719 Nov 26 09:02	0°×7		asc. node	8720 Nov 02 04:18	0°M	
morning set	8719 Nov 26 14:12	0° ∡ ¹26'03		morning set	8720 Nov 09 22:31	15°M09'32	
morning set	0/17 NOV 20 14.12	0 × 2003		morning set	6720 NOV 07 22.31	13 1100732	
superior conj	8719 Dec 04 10:50	16° ∡ 17'14	1°26'12	superior conj	8720 Nov 17 06:36	0° ∡ 728'46	1°37'15
minimum elong	8719 Dec 04 13:27	16° ∡ ³30′10	1°26'10	minimum elong	8720 Nov 17 07:59	0° ∡ ¹35'55	1°37'22
max. Earth dist.	8719 Dec 10 13:12	28° ₹ 00'24	1.37483 AU	Č	8720 Nov 17 01:02	0° ∡ ¹	
	8719 Dec 11 15:04	8°0		max. Earth dist.	8720 Nov 21 22:42	9° ∡ ¹55'00	1.35493 AU
evening rise	8719 Dec 14 06:45	4° ප 48'02		evening rise	8720 Nov 26 00:01	17° х ⁴43'07	
desc. node	8719 Dec 17 09:40	10°る15'35		evening rise	8720 Dec 02 20:25	0°る	
dese. Hode	8719 Dec 29 17:48	0°≈		desc. node	8720 Dec 03 06:42	0° る 43'52	
evening max el	8720 Jan 18 21:06	25°≈40'08	25°23'04	dese. Hode	8720 Dec 23 00:38	0°≈	
evening max or	8720 Jan 23 23:52	0° ∀	23 23 0 1	evening max el	8720 Dec 31 10:15	9° ≈ 25'19	26°26'40
retrograde	8720 Jan 31 00:25	2°) (40'10		retrograde	8720 Dec 31 10:15 8721 Jan 13 07:45	16° ≈ 41'13	20 20 40
evening set	8720 Feb 05 20:44	0°) (15'10		evening set	8721 Jan 19 16:10	10 ≈41 13 14°≈07'52	
evening set	8720 Feb 06 03:46	0)(13 10 30°R≈		min. Earth dist.	8721 Jan 23 19:23	9°≈52'11	0.66481 AU
asc. node	8720 Feb 08 20:52	27°≈08'50	0.67520 ATT	inferior conj	8721 Jan 25 13:14	7°≈45'48	
min. Earth dist.	8720 Feb 10 06:22	25°≈24'48	0.67528 AU	minimum elong	8721 Jan 25 13:20	7°≈45'30	0°03'42
inferior conj	8720 Feb 11 12:34	23°≈47'22	0°51'52	transit middle	8721 Jan 25 13:20	7°≈45'30	0°03'42
minimum elong	8720 Feb 11 11:20	23°≈51'21	0°51'32	transit begin	8721 Jan 25 10:31	7°≈54'01	
morning rise	8720 Feb 17 02:18	17° ≈ 53′23		transit end	8721 Jan 25 16:09	7° ≈ 36'59	
direct	8720 Feb 20 13:16	16° ≈ 44'42		asc. node	8721 Jan 25 17:57	7° ≈ 31'33	
morning max el	8720 Feb 27 13:52	20°≈37'03	19°16'12	morning rise	8721 Jan 31 11:21	2°≈02'02	
	8720 Mar 06 04:24	0° ∀		direct	8721 Feb 03 11:37	1° ≈ 11'04	
greatest brilliancy	8720 Mar 11 15:06	7° ¥ 55'45	-0.7m	morning max el	8721 Feb 10 01:18	4° ≈ 43'22	18°29'54
desc. node	8720 Mar 14 09:22	12° 米 05′37			8721 Feb 27 17:49	0° ∀	
morning set	8720 Mar 22 13:55	24°) 39'42		desc. node	8721 Mar 01 06:16	2° ∺ 24'24	
	8720 Mar 26 00:41	0 ° \mathbf{Y}		morning set	8721 Mar 02 10:59	4° ∺ 18'14	
max. Earth dist.	8720 Apr 04 20:12	15° Ƴ 19'39	1.45003 AU				
				superior conj	8721 Mar 18 10:11	29°) €25'37	
superior conj	8720 Apr 08 04:06	20° Y 35'40		minimum elong	8721 Mar 18 00:43	28° ¥ 48'36	
minimum elong	8720 Apr 07 23:30	20° Ƴ 17'24	2°08'04	max. Earth dist.	8721 Mar 18 14:48	29°) (43′42	1.45529 AU
	8720 Apr 14 00:58	0°8			8721 Mar 18 18:58	0° Y	
evening rise	8720 Apr 22 13:43	13° 8 57'48		evening rise	8721 Apr 03 04:29	24° Y 12'49	
	8720 May 02 08:15	Π $^{\circ}0$			8721 Apr 06 20:07	0° 8	
asc. node	8720 May 06 19:37	6° ∏ 47'16		greatest brilliancy	8721 Apr 12 09:23	8° 8 45'18	-0.8m
evening max el	8720 May 11 20:26	13° Ⅱ 00'16	18°21'22	asc. node	8721 Apr 23 16:43	24° 8 51'00	
retrograde	8720 May 18 06:16	16° Ⅱ 26'45		evening max el	8721 Apr 25 07:02	26° 8 34'52	18°54'26
evening set	8720 May 21 07:20	15° Ⅱ 35'54			8721 Apr 30 03:24	$\Pi^{\circ}0$	
inferior conj	8720 May 27 03:56	10° Ⅱ 09'01	3°11'14	retrograde	8721 May 02 01:02	0°Ⅱ20′02	
minimum elong	8720 May 27 05:31	10° ∏ 04′25	3°10'50		8721 May 03 21:43	30° ₹ 8	
min. Earth dist.	8720 May 29 12:15	7° Ⅱ 26'30	0.64239 AU	evening set	8721 May 05 09:38	29° 8 14'51	
morning rise	8720 Jun 02 02:38	3° Ⅱ 53'47		inferior conj	8721 May 10 22:54	23° 8 31'49	3°22'02
direct	8720 Jun 08 19:22	1° Ⅱ 11'59		minimum elong	8721 May 10 23:10	23° 8 30'58	3°21'51
desc. node	8720 Jun 10 09:07	1°Ⅱ20′03		min. Earth dist.	8721 May 12 15:58	21° 8 22'42	0.65940 AU
morning max el	8720 Jun 22 12:37	9° Ⅱ 11'52	27°31'28	morning rise	8721 May 16 12:08	17° 8 13'09	
	8720 Jul 08 17:31	0°€		direct	8721 May 22 22:07	14° 8 26'56	
	8720 Jul 26 04:50	$0^{\circ}\Omega$		desc. node	8721 May 28 06:07	16° 8 00'07	
morning set	8720 Jul 27 15:41	2° Ω 50'06		morning max el	8721 Jun 04 23:18	22° 8 12'16	26°36'53
max. Earth dist.	8720 Aug 01 10:46	12° Ω 33'47	1.33039 AU	- C	8721 Jun 11 19:10	0°II	
asc. node	8720 Aug 02 18:54	15° Ω 22'06			8721 Jul 01 23:34	0.ee	
		. 5522 00		morning set	8721 Jul 10 21:06	15°956'50	
superior conj	8720 Aug 04 17:13	19° Ω 28'07	0°19'24	max. Earth dist.	8721 Jul 15 00:07	23°956'20	1.34456 AU
minimum elong	8720 Aug 04 17:15	19° Ω 23'05		wist.	8721 Jul 18 00:22	0° Ω	
	5,2011ug 0 / 10.10	1, 002000	J 17 V2		3,21041 10 00.22	~ UC	

	8723 May 10 04:05	0° ႘			8724 May 03 03:46	0° ႘	
	8723 May 30 09:51	0°II		morning set	8724 May 15 19:56	19° 8 45'48	
morning set	8723 Jun 05 04:27	9° Ⅱ 38'11		max. Earth dist.	8724 May 20 21:13	28° 8 08'44	1.40749 AU
max. Earth dist.	8723 Jun 08 23:15		1.38497 AU	max. Earth dist.	8724 May 21 23:26	0°II	1.40747710
max. Earth dist.	0723 Juli 00 23.13	10 12 13 12	1.50157110		0/21 Way 21 23.20	ν Δ	
superior conj	8723 Jun 16 07:47	29° ∏ 42'42	-1°13'25	superior conj	8724 May 28 16:10	11° ∏ 42'41	-1°42'38
minimum elong	8723 Jun 16 12:24	0° © 04'31	1°12'55	minimum elong	8724 May 28 22:05	12° Ⅱ 09'14	1°42'12
•	8723 Jun 16 11:27	0°ಅ		evening rise	8724 Jun 07 21:21	0° © 35'16	
asc. node	8723 Jun 24 09:55	15° 5 23'29		-	8724 Jun 07 13:50	0 \circ \odot	
evening rise	8723 Jun 25 08:45	17° © 15'24		asc. node	8724 Jun 10 06:57	5°504'46	
	8723 Jul 02 02:07	$0^{\circ}\Omega$		evening max el	8724 Jun 23 23:03	26°5518'08	18°20'04
evening max el	8723 Jul 11 16:55	13° Ω 47'38	18°54'17	retrograde	8724 Jul 01 07:18	29° © 59'09	
retrograde	8723 Jul 20 05:32	18° Ω 01'17		evening set	8724 Jul 03 13:03	29° © 39'25	
evening set	8723 Jul 22 04:30	17° Ω 48'47		inferior conj	8724 Jul 10 22:06	25° © 01'26	1°08'35
desc. node	8723 Jul 28 23:19	14° Ω 30'32		minimum elong	8724 Jul 11 00:18	24° © 56'50	1°07'37
inferior conj	8723 Jul 30 09:18	13° Ω 31'13	-0°25'56	min. Earth dist.	8724 Jul 14 07:20	22° © 13'36	0.58658 AU
minimum elong	8723 Jul 30 08:13	13° Ω 33'09	0°25'41	desc. node	8724 Jul 14 20:23	21° 5 048'15	
min. Earth dist.	8723 Aug 02 10:43	11° Ω 21'45	0.56660 AU	morning rise	8724 Jul 18 08:16	19° 5 29'31	
morning rise	8723 Aug 07 08:39	8° Ω 33'56		direct	8724 Jul 24 12:15	17° 5 348'17	
direct	8723 Aug 12 19:32	7° Ω 22'59		morning max el	8724 Aug 07 21:32	25° © 33'12	27°18'07
morning max el	8723 Aug 27 01:47	14° Ω 45′20	26°07'26		8724 Aug 12 00:51	0 $^{\circ}\Omega$	
	8723 Sep 08 06:38	O° m y			8724 Aug 31 15:07	0° ™	
asc. node	8723 Sep 20 09:32	21°M)22'17		asc. node	8724 Sep 06 06:30	11°Mp08'15	
morning set	8723 Sep 24 08:14	29° m/32'08		morning set	8724 Sep 07 16:40	14°Mp06'31	
	8723 Sep 24 13:27	0 ∘ ⊽					
				superior conj	8724 Sep 14 17:09	29° m 24'53	1°16'28
superior conj	8723 Oct 01 05:20	14° ≙ 35'59	1°30'09	minimum elong	8724 Sep 14 14:55	29° m 12'34	1°16'08
minimum elong	8723 Oct 01 03:31	14° ≙ 25'54		max. Earth dist.	8724 Sep 14 10:14	28° Mp 46'31	1.31616 AU
max. Earth dist.	8723 Oct 02 00:08	16° ≙ 19'59	1.31906 AU		8724 Sep 14 23:28	0∘ ⊽	
evening rise	8723 Oct 08 04:17	29° ≙ 41'02		evening rise	8724 Sep 21 11:39	14° £ 15'32	
	8723 Oct 08 07:55	0°M			8724 Sep 29 08:17	0°M	
desc. node	8723 Oct 24 21:59	0° ∡ 07'23		desc. node	8724 Oct 10 19:05	18°M42'13	
	8723 Oct 24 20:03	0° ⊼	2701 (102		8724 Oct 20 05:29	0° ⊀ ⁷	26020140
evening max el	8723 Nov 08 18:41	18° 🖈 46'38	27°16'02	evening max el	8724 Oct 20 19:37	0° ₹ 33'56	26°28'40
retrograde	8723 Nov 22 15:15	25° ₹ 58'45		retrograde	8724 Nov 03 17:32	7° 🖈 40'07	
evening set min. Earth dist.	8723 Nov 29 16:29	23° x 43'42	0.61393 AU	evening set min. Earth dist.	8724 Nov 10 09:40 8724 Nov 14 09:04	5° 尽 50'30 3° 尽 15'41	0.59299 AU
	8723 Dec 03 09:17 8723 Dec 06 10:37	20° 🖈 56'46					
inferior conj minimum elong	8723 Dec 06 10:37 8723 Dec 06 17:09	18° ₹ 14'57 18° ₹ 00'30		inferior conj	8724 Nov 17 13:44 8724 Nov 17 21:09	0° ₹ 48'16 0° ₹ 33'57	
C	8723 Dec 06 17:09 8723 Dec 13 20:06	18 x 00 30 13° x 18'14	3 24 22	minimum elong	8724 Nov 17 21:09 8724 Nov 18 14:58	0 x ·33 3 / 30°RM	4 31 10
morning rise direct	8723 Dec 13 20:00 8723 Dec 16 01:17	13 × 18 14 12° × 57'39		morning rise	8724 Nov 18 14.38 8724 Nov 25 11:03	26°M13'44	
asc. node	8723 Dec 17 09:06	13° × 705'16		direct	8724 Nov 27 16:20	25°M56'21	
morning max el	8723 Dec 17 05:00 8723 Dec 23 02:22	16° × 30'40	17°53'51	asc. node	8724 Dec 03 06:08	27°M52'52	
morning max er	8724 Jan 01 13:48	0°중	17 33 31	morning max el	8724 Dec 05 00:06	29°M47'28	18°19'23
morning set	8724 Jan 07 18:44	11° る 05'41		morning max or	8724 Dec 05 18:02	0° ₹	10 17 23
morning sec	0/2:0411 0/ 10:11	11 000 .1		morning set	8724 Dec 21 08:56	25° ₹ '02'01	
superior conj	8724 Jan 18 08:24	29° る 58'22	0°18'46	morning sec	8724 Dec 23 23:30	0°ප	
minimum elong	8724 Jan 18 10:02	0°≈05'23	0°18'42				
3	8724 Jan 18 08:47	0° ≈		superior conj	8724 Dec 30 14:41	12° る 24'20	0°51'58
desc. node	8724 Jan 20 21:07	4°≈18'42		minimum elong	8724 Dec 30 17:56	12° る 39'08	0°51'42
max. Earth dist.	8724 Jan 25 18:55	12° ≈ 30'31	1.42856 AU	desc. node	8725 Jan 06 18:04	25° る 03'16	
evening rise	8724 Feb 01 05:20	22° ≈ 50'35		max. Earth dist.	8725 Jan 07 04:34	25° る 48'10	1.40883 AU
	8724 Feb 05 20:01	0°) €			8725 Jan 09 16:12	0° ≈	
	8724 Feb 26 20:35	0 ° Υ		evening rise	8725 Jan 11 18:28	3° ≈ 28′05	
evening max el	8724 Mar 04 09:20	7° Ƴ 34'00	22°01'57		8725 Jan 29 02:58	0° ∀	
retrograde	8724 Mar 13 18:48	13° Ƴ 07'49		evening max el	8725 Feb 15 00:42	21° ¥ 17′25	23°21'36
asc. node	8724 Mar 14 08:03	13° Ƴ 06′17		retrograde	8725 Feb 25 13:42	27° ∺ 31'32	
evening set	8724 Mar 18 07:45	11° Y 17'02		asc. node	8725 Mar 01 05:08	26° ∺ 26′33	
inferior conj	8724 Mar 23 15:25	4° Ƴ 57'06		evening set	8725 Mar 02 14:18	25° ¥ 26′03	
minimum elong	8724 Mar 23 13:14	5° Y 04'41	2°37'22	min. Earth dist.	8725 Mar 07 11:54	19°) 41′12	
min. Earth dist.	8724 Mar 23 15:12	4° Y 57'52	0.68435 AU	inferior conj	8725 Mar 08 00:03	18° ¥ 59′27	2°03'26
	8724 Mar 27 12:05	30° ₹		minimum elong	8725 Mar 07 21:51	19° ∺ 07'01	2°02'48
morning rise	8724 Mar 28 18:34	28°) 45'59		morning rise	8725 Mar 13 05:21	12°) € 53'43	
direct	8724 Apr 02 14:59	26°) 41'48		direct	8725 Mar 17 11:57	11°) (11'53	21000
	8724 Apr 09 16:24	0° Υ		morning max el	8725 Mar 25 21:26	16°) €01'19	21°00'51
morning max el	8724 Apr 12 05:04	2°Υ20'05	22°23'44	desc. node	8725 Apr 04 17:53	28°) (04'30	
desc. node	8724 Apr 17 20:58	8° Ƴ 45'49			8725 Apr 06 03:16	$0^{\circ}\mathbf{\Upsilon}$	

morning set	8725 Apr 25 08:43 8725 Apr 26 04:49	28° Ƴ 41'11 0° ႘		greatest brilliancy desc. node	8726 Mar 21 20:18 8726 Mar 22 14:48	16° 米 44'57 17° 米 52'47	-0.6m
max. Earth dist.	8725 May 03 00:58	10° 8 56'26	1.42790 AU		8726 Mar 30 16:35	0° Υ	
	0725 14 10 02 47	200 4 202 5	2004117	morning set	8726 Apr 04 06:36	7° Υ 01'17	1 44275 411
superior conj minimum elong	8725 May 10 02:47 8725 May 10 07:34	22° 8 42'35 23° 8 02'52		max. Earth dist.	8726 Apr 15 11:36	24° Y 32'27 0° と	1.44375 AU
minimum elong	8725 May 14 08:29	23 Ο 02 32 0° Π	2 04 11		8726 Apr 18 21:32	0.0	
evening rise	8725 May 21 19:35	13° Ⅱ 13'00		superior conj	8726 Apr 20 12:51	2° 8 38'44	-2°12'10
asc. node	8725 May 28 03:58	24° Ⅱ 27'51		minimum elong	8726 Apr 20 12:27	2° 8 37'09	
	8725 May 31 11:37	0 \circ \odot		evening rise	8726 May 03 22:48	24° 8 58'46	
evening max el	8725 Jun 07 10:31	9° 5 016'47	18°05'44		8726 May 06 21:33	Π °0	
retrograde	8725 Jun 14 01:57	12° © 40'45		asc. node	8726 May 15 01:01	13° Ⅱ 26'48	
evening set	8725 Jun 16 15:16	12°©10'35	2015126	evening max el	8726 May 21 23:56	22° II 35'27	18°10'25
inferior conj	8725 Jun 23 07:04	7°512'37		retrograde	8726 May 28 09:04	25° Ⅲ 56'55 25° Ⅲ 14'05	
minimum elong min. Earth dist.	8725 Jun 23 10:04 8725 Jun 26 11:48	7° © 05'23 4° © 08'56	2°14'35 0.60900 AU	evening set inferior conj	8726 May 31 05:52 8726 Jun 06 08:21		2°57'05
morning rise	8725 Jun 30 02:20	1°9515'55	0.00700 AC	minimum elong	8726 Jun 06 10:39	19° Д 51'20	2°56'27
desc. node	8725 Jul 01 17:26	0°919'07		min. Earth dist.	8726 Jun 09 01:15	17° I 01'30	0.63094 AU
	8725 Jul 02 09:46	30°RⅡ		morning rise	8726 Jun 12 13:51	13° Ⅱ 46'45	
direct	8725 Jul 06 17:10	29° Ⅱ 04'23		desc. node	8726 Jun 18 14:28	11° Ⅱ 14'11	
	8725 Jul 11 05:26	0 \circ \odot		direct	8726 Jun 19 08:03	11° Ⅱ 12'27	
morning max el	8725 Jul 21 00:07	7° © 03'28	27°52'57	morning max el	8726 Jul 03 07:44		27°49'25
	8725 Aug 07 09:10	0°N			8726 Jul 12 10:18	0°©	
morning set	8725 Aug 22 20:45	28° Ω 25'31		morning set	8726 Jul 31 07:55	0° Ω 12° Ω 22'32	
asc. node	8725 Aug 23 14:56 8725 Aug 24 03:28	0° Mp 1° Mp 05'35		asc. node	8726 Aug 06 18:17 8726 Aug 11 00:24	21° Ω 09'20	
max. Earth dist.	8725 Aug 28 19:10	11°Mp06'46	1.31782 AU	max. Earth dist.	8726 Aug 11 00:24 8726 Aug 11 23:00	23° Ω 09'11	1.32432 AU
max. Earth dist.	0/20 / lug 20 19:10	11 11/00 10	1.51702110	max. Earth dist.	0/20/14g 11 25.00	25 000711	1.32 132 110
superior conj	8725 Aug 30 03:57	14° m 07'08	0°57'50	superior conj	8726 Aug 14 11:55	28° Ω 36′52	0°34'38
minimum elong	8725 Aug 30 01:48	13° m 55'19	0°57'23	minimum elong	8726 Aug 14 10:22	28° Ω 28'30	0°34'12
evening rise	8725 Sep 05 22:05	28° To 56'10			8726 Aug 15 03:13	0° m)	
	8725 Sep 06 10:01	0°. 0°.		evening rise	8726 Aug 21 09:40	13°₱36'51 0°₽	
desc. node	8725 Sep 22 23:11 8725 Sep 27 16:10	6°M15'19		evening max el	8726 Aug 29 13:54 8726 Sep 13 23:56	21° £ 50'25	22024156
evening max el	8725 Oct 02 12:25	11°M30'46	25°11'10	desc. node	8726 Sep 14 13:17	21° ⊆ 30′23 22° ⊆ 22'08	23 34 30
retrograde	8725 Oct 16 09:39	18°M30'59	23 11 10	retrograde	8726 Sep 27 13:17	28° £ 37'05	
evening set	8725 Oct 22 03:59	17°ML15'13		evening set	8726 Oct 01 22:01	27° ჲ 55'30	
min. Earth dist.	8725 Oct 27 00:08	14°M34'37	0.57295 AU	min. Earth dist.	8726 Oct 08 10:01	24° ≏ 50'34	0.55684 AU
inferior conj	8725 Oct 29 21:31	12°M38'33	-5°22'29	inferior conj	8726 Oct 10 09:06	23° ≏ 40'35	-5°36'12
minimum elong	8725 Oct 30 02:32	12°M30'06	5°21'44	minimum elong	8726 Oct 10 07:27	23° Ω 43'03	5°36'03
morning rise	8725 Nov 07 03:25	8°M26'49		morning rise	8726 Oct 18 18:57	19° Ω 46'55	
direct morning max el	8725 Nov 09 13:33 8725 Nov 18 14:42	8°M09'39 12°M28'52	19°06'11	direct morning max el	8726 Oct 21 15:28 8726 Nov 01 04:18	19° £ 26'47 24° £ 23'56	20°15'30
asc. node	8725 Nov 18 14.42 8725 Nov 20 03:09	14°M02'58	19 00 11	morning max cr	8726 Nov 06 01:19	0° M	20 13 30
use. Houe	8725 Nov 30 12:02	0° ∡ 7		asc. node	8726 Nov 07 00:09	1° M 19'07	
morning set	8725 Dec 05 08:36	9° ∡ °24'02		morning set	8726 Nov 19 14:30	24°M01'48	
					8726 Nov 22 12:10	0° ∡ ¹	
superior conj	8725 Dec 13 15:14	25° ₹ 42'20	1°16'10		072()1 27 05 00	00 72720	1021140
minimum elong	8725 Dec 13 18:21 8725 Dec 15 21:18	25°♂57'23 0°る	1°16'02	superior conj	8726 Nov 27 05:08 8726 Nov 27 07:16	9° х 37'38 9° х 48'21	1°31'48 1°31'51
max. Earth dist.	8725 Dec 13 21.18 8725 Dec 20 10:23		1.38715 AU	minimum elong max. Earth dist.	8726 Dec 02 17:04	20° x 25'39	1.36604 AU
evening rise	8725 Dec 24 05:35	8 3 2232	1.38/13 AU	evening rise	8726 Dec 06 12:55	20 × 23 39 27° × 33'44	1.30004 AU
desc. node	8725 Dec 24 15:04	15° る 45'12		evening rise	8726 Dec 07 21:18	0°る	
	8726 Jan 02 07:07	0° ≈		desc. node	8726 Dec 11 12:05	6° る 19'53	
	8726 Jan 23 21:32	0°) €			8726 Dec 26 16:23	0° ≈	
evening max el	8726 Jan 28 14:09	5°) €04'22	24°40'36	evening max el	8727 Jan 11 03:21	18° ≈ 52'27	25°51'59
retrograde	8726 Feb 09 04:56	11° 米 51′16		retrograde	8727 Jan 23 15:21	26° ≈ 00'46	
evening set	8726 Feb 14 17:52	9°) (32'45		evening set	8727 Jan 29 16:47	23°≈31'55	
asc. node	8726 Feb 16 02:13	8° ★ 16'02 4° ★ 22'17	0.67056 ATT	asc. node	8727 Feb 02 23:19	18°≈57'08	0.67120 411
min. Earth dist. inferior conj	8726 Feb 19 07:30 8726 Feb 20 07:08	4° ↑ 22'17 3°) €03'43	0.67956 AU 1°20'26	min. Earth dist. inferior conj	8727 Feb 02 23:41 8727 Feb 04 10:44	18°≈56'01 17°≈05'42	0.67130 AU 0°29'11
minimum elong	8726 Feb 20 07:08 8726 Feb 20 05:23	3°) €09'31	1°19'53	minimum elong	8727 Feb 04 10:44 8727 Feb 04 10:00	17 ≈03 42 17°≈08'01	0°29'02
	8726 Feb 22 16:42	30°R≈		morning rise	8727 Feb 10 03:45	11°≈15'29	· · •
morning rise	8726 Feb 25 17:05	27° ≈ 04'48		direct	8727 Feb 13 09:56	10° ≈ 14'43	
direct	8726 Mar 01 10:47	25° ≈ 44'41		morning max el	8727 Feb 20 05:00	13° ≈ 57′21	18°54'21
	8726 Mar 08 23:32	0°) €			8727 Mar 04 05:57	0°) €	
morning max el	8726 Mar 08 21:23	29° ≈ 54'41	19°50'01	desc. node	8727 Mar 09 11:43	8° ∺ 02'16	

morning set	8727 Mar 14 13:28	15° ¥ 55'21		morning rise	8728 Jan 25 11:07	25° ප් 21'57	
	8727 Mar 23 14:07	0 ° $\mathbf{\gamma}$		direct	8728 Jan 28 07:28	24° る 37'14	
max. Earth dist.	8727 Mar 29 04:03	8° Y 43'58	1.45320 AU	morning max el	8728 Feb 03 18:36	28° る 04'14	18°15'07
					8728 Feb 05 13:34	0° ≈	
superior conj	8727 Mar 31 01:38	11° Y 43'03		morning set	8728 Feb 22 23:01	26° ≈ 11'45	
minimum elong	8727 Mar 30 18:17	11° Y 14'05	2°00'26	desc. node	8728 Feb 24 08:38	28°≈27'00	
	8727 Apr 11 13:27	0°8			8728 Feb 25 07:48	0°) €	
evening rise	8727 Apr 15 03:06 8727 Apr 30 12:34	5° ႘ 46'10 0° Ⅱ		superior conj	8728 Mar 09 06:45	20°) (33'17	1°20'00
asc. node	8727 May 01 22:05	1° Ⅱ 53'50		minimum elong	8728 Mar 08 21:18		1°29'06
evening max el	8727 May 01 22:03 8727 May 05 12:22	6° Ⅱ 06'40	18°33'24	max. Earth dist.	8728 Mar 10 23:46	23° ¥ 14'00	1.45537 AU
retrograde	8727 May 12 00:35	9° ∏ 39'18			8728 Mar 15 07:39	0° Υ	
evening set	8727 May 15 04:51	8° Ⅱ 42'24		evening rise	8728 Mar 25 08:28	15° Ƴ 39'36	
inferior conj	8727 May 20 21:55	3° Ⅱ 08'42	3°17'45	_	8728 Apr 03 13:37	0° 8	
minimum elong	8727 May 20 22:57	3° Ⅱ 05'37	3°17'28	greatest brilliancy	8728 Apr 05 17:07	3° 8 17'21	-0.7m
min. Earth dist.	8727 May 22 23:51	0°Ⅱ38'57	0.65015 AU	asc. node	8728 Apr 17 19:12	19° 8 38'01	
	8727 May 23 13:19	30° ₹ 8		evening max el	8728 Apr 17 21:19	19° 8 43'24	19°13'40
morning rise	8727 May 26 16:14	26° 8 51'39		retrograde	8728 Apr 24 20:56	23° 8 39'34	
direct	8727 Jun 02 06:53	24° 8 06'18		evening set	8728 Apr 28 09:05	22° 8 27'52	2022105
desc. node	8727 Jun 05 11:29	24° ႘ 39'41 0° Ⅱ		inferior conj	8728 May 03 20:10	16° 8 38'28 16° 8 39'17	3°22'05 3°21'55
marning may al	8727 Jun 13 15:21 8727 Jun 15 17:49	0°П 2°П01'28	27011127	minimum elong	8728 May 03 19:55	16° 6 39'17	0.66542 AU
morning max el	8727 Jul 15 17:49 8727 Jul 06 15:11	2° щ 0128	2/-11/2/	min. Earth dist. morning rise	8728 May 05 06:46 8728 May 09 06:22	10° 8 19'55	0.00342 AU
morning set	8727 Jul 21 06:34	25° © 50'29		direct	8728 May 15 12:13	7° 8 35'30	
morning set	8727 Jul 23 09:24	0°Ω		desc. node	8728 May 22 08:29	10° 8 08'17	
max. Earth dist.	8727 Jul 25 18:19	4°Ω46'48	1.33580 AU	morning max el	8728 May 28 04:09	15° 8 08'54	26°06'34
asc. node	8727 Jul 28 21:22	11° Ω 15'42		C	8728 Jun 09 08:12	$\Pi^{\circ}0$	
					8728 Jun 28 10:56	0 \circ \odot	
superior conj	8727 Jul 29 15:00	12° Ω 48'31	0°07'24	morning set	8728 Jul 03 05:57	8° 5 38'43	
minimum elong	8727 Jul 29 14:37	12° Ω 46'32	0°07'10	max. Earth dist.	8728 Jul 07 03:07	16° © 00'14	1.35204 AU
behind sun begin	8727 Jul 29 09:36	12° Ω 20′00					
behind sun end	8727 Jul 29 19:39	13° Ω 13'05		superior conj	8728 Jul 12 10:37	26°534'12	
evening rise	8727 Aug 05 20:35	28° Ω 12'32		minimum elong	8728 Jul 12 11:58	26°5941'03	0°22'57
	8727 Aug 06 17:02 8727 Aug 24 14:29	0 ் ⊽ 0° மி		asc. node	8728 Jul 14 02:48 8728 Jul 14 18:21	0°Ω 1°Ω20'07	
evening max el	8727 Aug 24 14.29 8727 Aug 26 13:55	0 == 2° £ 04'50	21°56'28	evening rise	8728 Jul 20 04:42	12° Ω 36'16	
desc. node	8727 Sep 01 10:24	6° £ 32'34	21 30 20	evening rise	8728 Jul 29 05:47	0° m)	
retrograde	8727 Sep 08 05:00	8° £ 21'24		evening max el	8728 Aug 07 14:20	12° m/ 46'36	20°30'08
evening set	8727 Sep 11 03:00	8° ≏ 02'24		desc. node	8728 Aug 18 07:32	18° m) 16'27	
inferior conj	8727 Sep 20 05:20	4° £ 02'30	-4°56'55	retrograde	8728 Aug 18 17:09	18° Mp 16'52	
minimum elong	8727 Sep 19 20:53	4° £ 14'21	4°55'13	evening set	8728 Aug 20 18:02	18° m 06'33	
min. Earth dist.	8727 Sep 19 18:08	4° ≏ 18'11	0.54784 AU	inferior conj	8728 Aug 29 22:14	14°M 09'21	-3°25'56
morning rise	8727 Sep 28 16:07	0° ≏ 14'13		minimum elong	8728 Aug 29 13:19	14° m 22'14	
	8727 Sep 29 19:12	30°R My		min. Earth dist.	8728 Aug 31 03:20		0.54798 AU
direct	8727 Oct 02 03:08	29° m 47'51		morning rise	8728 Sep 07 08:09	10° Mp 06'07	
morning may al	8727 Oct 04 10:02 8727 Oct 14 04:45	0° ჲ 5° ჲ 29'15	21945!52	direct morning max el	8728 Sep 11 11:54 8728 Sep 24 19:37	9° m, 29'05 15° m, 55'27	22020114
morning max el asc. node	8727 Oct 24 21:08	19° £ 26'42	21 43 32	morning max er	8728 Oct 05 22:33	0° ⊽	23 30 14
use. Hode	8727 Oct 30 16:22	0°M		asc. node	8728 Oct 10 18:06	° - 213'05	
morning set	8727 Nov 04 00:13	8°M48'27		morning set	8728 Oct 18 11:44	23° ≏ 38'04	
C				C	8728 Oct 21 10:52	0° M	
superior conj	8727 Nov 11 04:31	23°M59'00	1°39'41				
minimum elong	8727 Nov 11 05:21	24°ML03'21	1°39'51	superior conj	8728 Oct 25 10:17	8°M37'13	1°40'44
	8727 Nov 14 02:14	0°⊀		minimum elong	8728 Oct 25 09:53	8°M35'01	1°40'51
max. Earth dist.	8727 Nov 15 05:38	2° ₹ 19'12	1.34754 AU	max. Earth dist.	8728 Oct 28 02:23	14° M 19′57	1.33286 AU
evening rise	8727 Nov 19 12:48	10° ∡ 46′36		evening rise	8728 Nov 02 01:25	24°M32'55	
desc. node	8727 Nov 28 09:07	26° ₹ 42'33			8728 Nov 04 20:14	0° 🗷	
	8727 Nov 30 08:31	್ಲಿ %%		desc. node	8728 Nov 14 06:12	16°⊀47'18 0°る	
evening max el	8727 Dec 22 03:43 8727 Dec 24 16:48	0°≈ 2°≈35'02	26°48'18	evening max el	8728 Nov 22 21:16 8728 Dec 06 05:31	0°5 16° る 01'20	27°22'26
retrograde	8727 Dec 24 16:48 8728 Jan 06 20:09	2°≈53'02 9°≈53'31	ZU 40 10	retrograde	8728 Dec 10 05:31 8728 Dec 19 18:47	16 ⁻ 801 ⁻ 20 23° 8 21 ⁻ 40	41 44 40
evening set	8728 Jan 13 09:11	7°≈18'37		evening set	8728 Dec 26 16:49	23 3 21 40 20° 3 47'00	
min. Earth dist.	8728 Jan 17 10:04	3°≈17'17	0.65935 AU	min. Earth dist.	8728 Dec 30 12:29		0.64388 AU
inferior conj	8728 Jan 19 08:48	1°≈00'55		inferior conj	8729 Jan 01 22:52	14° ප් 43'53	
minimum elong	8728 Jan 19 09:38	0° ≈ 58'28		minimum elong	8729 Jan 02 01:49	14° පි 36'02	
	8728 Jan 20 05:49	30°R₹		asc. node	8729 Jan 06 17:31	10° る 19'03	
asc. node	8728 Jan 20 20:26	29° る 18'49		morning rise	8729 Jan 08 12:27	9° ප 19'02	

J:4	9730 I 11 00.53	00746140			9720 D 22 04.10	220.750101	
direct	8729 Jan 11 00:52	8° る 46'40	1705054	morning rise	8729 Dec 23 04:10	22° 🗷 59'01	
morning max el	8729 Jan 17 11:35 8729 Jan 29 20:49	12° る 08'46 0°≈	17°52'54	asc. node	8729 Dec 24 14:35 8729 Dec 25 11:01	22° х 38'37 22° х 35'16	
morning sot	8729 Feb 03 13:34	0 ≈ 7°≈53'50		direct morning max el	8730 Jan 01 04:46	26° ₹ 01'53	17040114
morning set desc. node	8729 Feb 03 13:34 8729 Feb 10 05:35	7 ≈33 30 19°≈02'32		morning max er	8730 Jan 04 13:55	20 x 01 33	1 / 40 14
desc. node	8729100 10 03.33	19 202 32		morning set	8730 Jan 17 03:28	00 20° ろ 42'25	
superior conj	8729 Feb 16 23:32	0° ₩ 02'31	-0°47'49	morning set	8730 Jan 22 10:14	0°≈	
minimum elong	8729 Feb 16 18:06	29°≈40'42		desc. node	8730 Jan 28 02:31	9° ≈ 44'16	
mmmum viong	8729 Feb 16 22:54	0° ₩	0 1000	dese. node	0,50 tan 20 02.51	, , , , , , , , ,	
max. Earth dist.	8729 Feb 21 19:30	7°) 44'24	1.45007 AU	superior conj	8730 Jan 28 15:53	10° ≈ 40'31	-0°04'08
evening rise	8729 Mar 04 22:25	25°) €02'21		minimum elong	8730 Jan 28 15:29	10° ≈ 38'51	0°03'54
<i>8</i> 11	8729 Mar 08 04:14	0° Υ		behind sun begin	8730 Jan 28 06:43	10° ≈ 01'57	
greatest brilliancy	8729 Mar 19 19:32	17° Ƴ 26'31	-0.6m	behind sun end	8730 Jan 29 00:16	11° ≈ 15'41	
· ·	8729 Mar 29 00:50	0°8		max. Earth dist.	8730 Feb 04 12:02	21° ≈ 55'43	1.43798 AU
evening max el	8729 Apr 01 01:10	3° 8 22'34	20°09'31		8730 Feb 09 13:51	0° ∀	
asc. node	8729 Apr 04 16:19	6° 8 27'09		evening rise	8730 Feb 12 11:01	4° ¥ 29'31	
retrograde	8729 Apr 08 19:27	7° 8 52'36		•	8730 Mar 01 14:05	$0^{\circ}\Upsilon$	
evening set	8729 Apr 12 16:16	6° 8 25'49		evening max el	8730 Mar 14 23:26	17° Y 02'35	21°18'13
inferior conj	8729 Apr 18 00:14	0° 8 22'31	3°13'19	asc. node	8730 Mar 22 13:26	22° Y 05'48	
minimum elong	8729 Apr 17 22:57	0° 8 26'52	3°13'05	retrograde	8730 Mar 23 17:49	22° Y 12'54	
	8729 Apr 18 06:51	30° ₹Ƴ		evening set	8730 Mar 28 00:26	20° Ƴ 30'58	
min. Earth dist.	8729 Apr 18 20:25	29° Ƴ 14'00	0.67628 AU	inferior conj	8730 Apr 02 07:39	14° Y 16'14	2°53'39
morning rise	8729 Apr 23 05:24	24° Ƴ 05'19		minimum elong	8730 Apr 02 05:41	14° Y 23'03	2°53'13
direct	8729 Apr 28 23:17	21° Y '31'34		min. Earth dist.	8730 Apr 02 14:38	13° Y 51'57	0.68267 AU
desc. node	8729 May 09 05:27	27° Ƴ 09'42		morning rise	8730 Apr 07 10:43	8° Y 02'15	
morning max el	8729 May 10 13:42	28° Y 28'42	24°44'14	direct	8730 Apr 12 15:06	5° Ƴ 45'59	
	8729 May 12 00:37	9° 8		morning max el	8730 Apr 22 23:15	11° Y 54'53	23°14'37
	8729 Jun 03 01:59	Π $^{\circ}0$		desc. node	8730 Apr 26 02:24	15° Y 18′08	
morning set	8729 Jun 15 11:51	20° Ⅱ 35'41			8730 May 07 09:53	9° 8	
max. Earth dist.	8729 Jun 19 02:41	27° Ⅱ 05'41	1.37224 AU		8730 May 26 21:56	Π °0	
	8729 Jun 20 16:30	0ංම		morning set	8730 May 27 18:45	1° Ⅱ 26′50	
		_		max. Earth dist.	8730 May 31 22:34	8°Д32'06	1.39462 AU
superior conj	8729 Jun 25 19:43	9° © 46'29					
minimum elong	8729 Jun 25 23:09	10°503'12	0°54'43	superior conj	8730 Jun 08 14:24	22° I 15'53	
asc. node	8729 Jul 01 15:20	21°5518'58		minimum elong	8730 Jun 08 19:44	22° Ⅱ 40'36	1°25'54
evening rise	8729 Jul 04 07:41	26°5941'43			8730 Jun 12 17:16	0°95	
	8729 Jul 05 23:31	0°N	10022112	evening rise	8730 Jun 18 02:32	10°520'45	
evening max el	8729 Jul 21 04:11	24°Ω12'59	19°23'12	asc. node	8730 Jun 18 12:21	11° © 08'00	
retrograde	8729 Jul 30 14:18	28° Ω 52'33			8730 Jun 29 03:15	0° Ω	10027115
evening set desc. node	8729 Aug 01 10:46	28° Ω 42'30 27° Ω 27'20		evening max el	8730 Jul 04 05:30 8730 Jul 12 04:48	6° Ω 22'59 10° Ω 20'50	18°37'15
	8729 Aug 05 04:38	$24^{\circ}\Omega 35'00$	1920126	retrograde	8730 Jul 12 04.48 8730 Jul 14 06:16	10° Ω 05'50	
inferior conj minimum elong	8729 Aug 10 02:22 8729 Aug 09 22:18	24° Ω 41'36		evening set inferior conj	8730 Jul 22 02:37	5° Ω 40'06	0°17'21
min. Earth dist.	8729 Aug 09 22.18 8729 Aug 12 15:57	$22^{\circ}\Omega55'03$	0.55749 AU	minimum elong	8730 Jul 22 02:37 8730 Jul 22 03:16	5° Ω 38'52	
morning rise	8729 Aug 12 13:37 8729 Aug 18 07:10	19° Ω 58'53	0.55747 AO	desc. node	8730 Jul 23 01:42	4° Ω 56'00	0 10 30
direct	8729 Aug 23 06:18	19° Ω 03'00		min. Earth dist.	8730 Jul 25 09:22	3° Ω 11'31	0.57456 AU
morning max el	8729 Sep 06 07:59	26° Ω 08'33	25°14'24	morning rise	8730 Jul 29 20:43	0° Ω 26'56	0.57450710
morning man er	8729 Sep 10 00:14	0° m)	20 1.2.		8730 Jul 30 21:32	30°Rூ	
asc. node	8729 Sep 27 15:03	27° m) 28'37		direct	8730 Aug 04 15:30	29°503'15	
	8729 Sep 28 21:41	0∘ <u>⊽</u>			8730 Aug 09 11:23	$0^{\circ}\Omega$	
morning set	8729 Oct 02 23:20	8° ≏ 25'38		morning max el	8730 Aug 18 23:59	6° Ω 37'16	26°41'25
C				C	8730 Sep 05 08:16	O° Mp	
superior conj	8729 Oct 09 19:58	23° ≏ 24'48	1°35'39	asc. node	8730 Sep 14 11:59	17° Mp 05'30	
minimum elong	8729 Oct 09 18:34	23° ₽ 17'05	1°35'37	morning set	8730 Sep 17 09:24	23° Mp 06'31	
max. Earth dist.	8729 Oct 11 06:25	26° ≙ 33'40	1.32270 AU		8730 Sep 20 13:57	0∘ ত	
	8729 Oct 12 20:22	0° M					
evening rise	8729 Oct 16 23:25	8° M 44'01		superior conj	8730 Sep 24 07:33	8° ≙ 15′28	1°24'59
	8729 Oct 28 05:32	0° ∡ ¹		minimum elong	8730 Sep 24 05:30	8° ≙ 04'08	1°24'45
desc. node	8729 Nov 01 03:18	6° ∡ 126′03		max. Earth dist.	8730 Sep 24 15:10	8° ჲ 57'47	1.31718 AU
evening max el	8729 Nov 18 15:33	28° ∡ ¹58'11	27°27'51	evening rise	8730 Oct 01 04:04	23° ≏ 12'28	
	8729 Nov 19 18:27	5°0			8730 Oct 04 11:06	0° M	
retrograde	8729 Dec 02 10:35	6° ප 15'00		desc. node	8730 Oct 19 00:23	25°M28'24	
evening set	8729 Dec 09 12:40	3° る 49'35			8730 Oct 22 04:40	0° ∡	
min. Earth dist.	8729 Dec 13 05:09	0° る 50'05	0.62542 AU	evening max el	8730 Oct 31 20:39	11° ⊀ 14'20	27°00'07
	8729 Dec 14 02:37	30°₽ ∡ 7		retrograde	8730 Nov 14 18:28	18° ≯ 24'35	
inferior conj	8729 Dec 16 02:00	28° ∡ ¹06'39		evening set	8730 Nov 21 16:56	16° ₹ 19'09	
minimum elong	8729 Dec 16 07:19	27° ∡ ¹53'59	2°43'44	min. Earth dist.	8730 Nov 25 11:15	13° ∡ ³39′03	0.60498 AU

inferior conj	8730 Nov 28 14:55	11° ∡ 01'07	-3°56'09	minimum elong	8731 Nov 10 17:01	23°M04'25	4°55'39
minimum elong	8730 Nov 28 22:05	10° ∡ 46′07		morning rise	8731 Nov 18 11:32	18°M51'53	. 55 57
morning rise	8730 Dec 06 05:41	6° ₹ 13'33		direct	8731 Nov 20 18:14	18°M34'55	
direct	8730 Dec 08 10:12	5° ∡ 754'51		asc. node	8731 Nov 28 08:36	21°M56'55	
asc. node	8730 Dec 11 11:36	6° х 33′04		morning max el	8731 Nov 29 01:56	22°M37'04	18°36'33
morning max el	8730 Dec 15 18:46	9° ∡ ³34'51	18°02'13	C	8731 Dec 04 22:22	0° ∡ ¹	
C	8730 Dec 29 02:25	8°0		morning set	8731 Dec 15 05:02	18° ∡ ¹26'54	
morning set	8730 Dec 31 10:22	4° ප 18'36		C	8731 Dec 21 04:29	0°ಕ	
superior conj	8731 Jan 10 09:20	22° ♂ 29'46	0°33'54	superior conj	8731 Dec 23 23:57	5°る18'50	1°03'19
minimum elong	8731 Jan 10 11:55	22° ප් 41'11	0°33'42	minimum elong	8731 Dec 24 03:18	5° る 34'30	1°03'06
desc. node	8731 Jan 14 23:29	0°≈28'49		max. Earth dist.	8731 Dec 31 07:53	18°る34'00	1.39973 AU
Earth diet	8731 Jan 14 16:45	0°≈ 5°≈ •3.4153	1 42055 ATT	desc. node	8732 Jan 01 20:28	21° පි 12'23 25° පි 38'14	
max. Earth dist. evening rise	8731 Jan 18 00:03 8731 Jan 23 12:41	5°≈34'52 14°≈35'56	1.42055 AU	evening rise	8732 Jan 04 11:07 8732 Jan 07 02:24	25° € 38°14	
evening rise	8731 Feb 02 11:58	0° \			8732 Jan 27 05:11	0 ∞ 0° ∀	
	8731 Feb 24 23:31	0° Υ		evening max el	8732 Feb 08 07:28	14°) 30'15	23°55'48
evening max el	8731 Feb 25 16:58	0° Υ 44'45	22°35'31	retrograde	8732 Feb 19 07:40	20° H 58'49	23 33 40
retrograde	8731 Mar 07 14:20	6° Υ 36'21	22 33 31	asc. node	8732 Feb 24 07:37	18° X 59'51	
asc. node	8731 Mar 09 10:31	6° Υ 19'23		evening set	8732 Feb 24 13:29	18°) 47'41	
evening set	8731 Mar 12 08:01	4° Υ 39'28		min. Earth dist.	8732 Feb 29 07:36	13°) 17'30	0.68258 AU
	8731 Mar 16 10:18	30° R ₩		inferior conj	8732 Mar 01 00:35	12°) 19'47	1°46'16
inferior conj	8731 Mar 17 16:23	28°) €16'18	2°24'23	minimum elong	8732 Feb 29 22:31	12°) €26'48	1°45'38
minimum elong	8731 Mar 17 14:08	28°) €24'06	2°23'47	morning rise	8732 Mar 06 07:34	6°) €16'46	
min. Earth dist.	8731 Mar 17 11:06	28°) 34′39	0.68471 AU	direct	8732 Mar 10 08:39	4°) 44'08	
morning rise	8731 Mar 22 20:06	22°) 07'04		morning max el	8732 Mar 18 07:20	9°) 14'59	20°29'04
direct	8731 Mar 27 10:38	20° 升 12′05		desc. node	8732 Mar 29 20:16	23°) (47′33	
morning max el	8731 Apr 05 11:58	25°) €28'57	21°47'10		8732 Apr 03 03:25	$0^{\circ}\mathbf{\Upsilon}$	
	8731 Apr 09 13:50	$0^{\circ}\mathbf{\Upsilon}$		morning set	8732 Apr 16 02:35	19° Y 35'39	
desc. node	8731 Apr 12 23:20	4° Ƴ 15′09			8732 Apr 22 17:39	0° ႘	
	8731 Apr 30 21:14	9° 8		max. Earth dist.	8732 Apr 25 05:29	3° 8 59'27	1.43536 AU
morning set	8731 May 07 22:25	11° 8 02'00					
max. Earth dist.	8731 May 13 22:13	20° 8 47'37	1.41662 AU	superior conj	8732 May 01 14:34	14° 8 25'29	
	8731 May 19 08:46	$\Pi^{\circ}0$		minimum elong	8732 May 01 17:39	14° 8 38'21	2°09'44
		_			8732 May 10 18:12	Π °0	
superior conj	8731 May 21 14:07	3° Ⅱ 51'50		evening rise	8732 May 14 00:21	5° Ⅱ 41'13	
minimum elong	8731 May 21 19:58	4° Ⅱ 17'28	1°52'47	asc. node	8732 May 22 06:25	19° ∏ 56'11	
evening rise	8731 Jun 01 09:34	23° Ⅱ 23'49			8732 May 29 02:05	0°©	
asc. node	8731 Jun 05 09:22	0°542'09		evening max el	8732 May 31 03:15	2°516'06	18°05'23
	8731 Jun 05 00:04	0°95	10011127	retrograde	8732 Jun 06 14:37	5°937'02	
evening max el	8731 Jun 17 14:27	19°507'09	18°11'36	evening set	8732 Jun 09 07:14	5°501'33	2027102
retrograde evening set	8731 Jun 24 13:59 8731 Jun 26 23:04	22°©38'37 22°©14'41		inferior conj	8732 Jun 15 16:51	29° Ⅲ 55'16	2°36'02
inferior conj		22 301441			9722 Jun 15 10:40	200T/19105	2025100
minimum elong	8731 Iul 04 00:22	170628116	1°40'24	minimum elong	8732 Jun 15 19:40	29° ∏ 48'05	2°35'09
	8731 Jul 04 00:22	17°528'16	1°40'24 1°39'19	_	8732 Jun 15 14:59	30°RⅡ	
	8731 Jul 04 03:09	17° 5 22'03	1°39'19	min. Earth dist.	8732 Jun 15 14:59 8732 Jun 18 17:02	30°RП 26°П52'31	2°35'09 0.61861 AU
min. Earth dist.	8731 Jul 04 03:09 8731 Jul 07 09:02	17°©22'03 14°©30'40		min. Earth dist. morning rise	8732 Jun 15 14:59 8732 Jun 18 17:02 8732 Jun 22 06:03	30°RП 26°П52'31 23°П51'38	
min. Earth dist. desc. node	8731 Jul 04 03:09	17° 5 22'03	1°39'19	min. Earth dist.	8732 Jun 15 14:59 8732 Jun 18 17:02	30°RП 26°П52'31	
min. Earth dist.	8731 Jul 04 03:09 8731 Jul 07 09:02 8731 Jul 09 22:46	17°\$22'03 14°\$30'40 12°\$31'51	1°39'19	min. Earth dist. morning rise desc. node direct	8732 Jun 15 14:59 8732 Jun 18 17:02 8732 Jun 22 06:03 8732 Jun 25 19:50	30°RД 26°Д52'31 23°Д51'38 22°Д00'11	
min. Earth dist. desc. node morning rise	8731 Jul 04 03:09 8731 Jul 07 09:02 8731 Jul 09 22:46 8731 Jul 11 04:14	17°522'03 14°530'40 12°531'51 11°544'45	1°39'19 0.59606 AU	min. Earth dist. morning rise desc. node	8732 Jun 15 14:59 8732 Jun 18 17:02 8732 Jun 22 06:03 8732 Jun 25 19:50 8732 Jun 28 23:16	30°RII 26°II52'31 23°II51'38 22°II00'11 21°II29'29	0.61861 AU
min. Earth dist. desc. node morning rise direct	8731 Jul 04 03:09 8731 Jul 07 09:02 8731 Jul 09 22:46 8731 Jul 11 04:14 8731 Jul 17 13:59	17°©22'03 14°©30'40 12°©31'51 11°©44'45 9°©49'54	1°39'19 0.59606 AU	min. Earth dist. morning rise desc. node direct	8732 Jun 15 14:59 8732 Jun 18 17:02 8732 Jun 22 06:03 8732 Jun 25 19:50 8732 Jun 28 23:16 8732 Jul 13 03:28	30°RП 26°П52'31 23°П51'38 22°П00'11 21°П29'29 29°П30'31	0.61861 AU
min. Earth dist. desc. node morning rise direct	8731 Jul 04 03:09 8731 Jul 07 09:02 8731 Jul 09 22:46 8731 Jul 11 04:14 8731 Jul 17 13:59 8731 Jul 31 22:29	17°©22'03 14°©30'40 12°©31'51 11°©44'45 9°©49'54 17°©41'40	1°39'19 0.59606 AU	min. Earth dist. morning rise desc. node direct	8732 Jun 15 14:59 8732 Jun 18 17:02 8732 Jun 22 06:03 8732 Jun 25 19:50 8732 Jun 28 23:16 8732 Jul 13 03:28 8732 Jul 13 15:10	30°RЛ 26°П52'31 23°П51'38 22°П00'11 21°П29'29 29°П30'31 0°©	0.61861 AU
min. Earth dist. desc. node morning rise direct	8731 Jul 04 03:09 8731 Jul 07 09:02 8731 Jul 09 22:46 8731 Jul 11 04:14 8731 Jul 17 13:59 8731 Jul 31 22:29 8731 Aug 11 04:26	17°\$22'03 14°\$30'40 12°\$31'51 11°\$44'45 9°\$49'54 17°\$41'40 0°\$\lambda\$	1°39'19 0.59606 AU	min. Earth dist. morning rise desc. node direct morning max el	8732 Jun 15 14:59 8732 Jun 18 17:02 8732 Jun 22 06:03 8732 Jun 25 19:50 8732 Jun 28 23:16 8732 Jul 13 03:28 8732 Jul 13 15:10 8732 Aug 04 04:03	30°RΠ 26°П52'31 23°П51'38 22°П00'11 21°П29'29 29°П30'31 0°© 0°Ω	0.61861 AU
min. Earth dist. desc. node morning rise direct morning max el	8731 Jul 04 03:09 8731 Jul 07 09:02 8731 Jul 09 22:46 8731 Jul 11 04:14 8731 Jul 17 13:59 8731 Jul 31 22:29 8731 Aug 11 04:26 8731 Aug 28 22:59	17°\$22'03 14°\$30'40 12°\$31'51 11°\$44'45 9°\$49'54 17°\$41'40 0°\$\lambda\$ 0°\$\text{m}\$	1°39'19 0.59606 AU	min. Earth dist. morning rise desc. node direct morning max el	8732 Jun 15 14:59 8732 Jun 18 17:02 8732 Jun 22 06:03 8732 Jun 25 19:50 8732 Jun 28 23:16 8732 Jul 13 03:28 8732 Jul 13 15:10 8732 Aug 04 04:03 8732 Aug 15 17:48	30°R∏ 26°∏52'31 23°∏51'38 22°∏00'11 21°∏29'29 29°∏30'31 0°© 0°Ω 21°Ω45'04	0.61861 AU
min. Earth dist. desc. node morning rise direct morning max el	8731 Jul 04 03:09 8731 Jul 07 09:02 8731 Jul 09 22:46 8731 Jul 11 04:14 8731 Jul 17 13:59 8731 Jul 31 22:29 8731 Aug 11 04:26 8731 Aug 28 22:59 8731 Sep 01 08:55	17°\$22'03 14°\$30'40 12°\$31'51 11°\$44'45 9°\$49'54 17°\$41'40 0°\$\lambda\$ 0°\$\text{m}\$ 6°\$\text{m}\$56'40	1°39'19 0.59606 AU	min. Earth dist. morning rise desc. node direct morning max el	8732 Jun 15 14:59 8732 Jun 18 17:02 8732 Jun 22 06:03 8732 Jun 25 19:50 8732 Jun 28 23:16 8732 Jul 13 03:28 8732 Jul 13 15:10 8732 Aug 04 04:03 8732 Aug 15 17:48 8732 Aug 18 05:52	30°R∏ 26°∏52'31 23°∏51'38 22°∏00'11 21°∏29'29 29°∏30'31 0°© 0°Ω 21°Ω45'04 26°Ω57'10	0.61861 AU
min. Earth dist. desc. node morning rise direct morning max el asc. node morning set max. Earth dist.	8731 Jul 04 03:09 8731 Jul 07 09:02 8731 Jul 09 22:46 8731 Jul 11 04:14 8731 Jul 17 13:59 8731 Jul 31 22:29 8731 Aug 11 04:26 8731 Aug 28 22:59 8731 Sep 01 08:55 8731 Sep 01 16:12 8731 Sep 08 01:10	17°\$22'03 14°\$30'40 12°\$31'51 11°\$44'45 9°\$49'54 17°\$41'40 0°\$\Omega\$ 0°\$\pi\$ 6°\$\pi\$56'40 7°\$\pi\$34'44 21°\$\pi\$22'38	1°39'19 0.59606 AU 27°37'34 1.31630 AU	min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist.	8732 Jun 15 14:59 8732 Jun 18 17:02 8732 Jun 22 06:03 8732 Jun 25 19:50 8732 Jun 28 23:16 8732 Jul 13 03:28 8732 Jul 13 15:10 8732 Aug 04 04:03 8732 Aug 15 17:48 8732 Aug 18 05:52 8732 Aug 19 16:16 8732 Aug 21 08:35	30°R∏ 26°∏52'31 23°∏51'38 22°∏00'11 21°∏29'29 29°∏30'31 0°© 0°Ω 21°Ω45'04 26°Ω57'10 0°™ 3°™37'22	0.61861 AU 27°56'00 1.32010 AU
min. Earth dist. desc. node morning rise direct morning max el asc. node morning set max. Earth dist. superior conj	8731 Jul 04 03:09 8731 Jul 07 09:02 8731 Jul 09 22:46 8731 Jul 11 04:14 8731 Jul 17 13:59 8731 Jul 31 22:29 8731 Aug 11 04:26 8731 Aug 28 22:59 8731 Sep 01 08:55 8731 Sep 01 16:12 8731 Sep 08 01:10	17°\$22'03 14°\$30'40 12°\$31'51 11°\$44'45 9°\$49'54 17°\$41'40 0°\$\Omega\$ 0°\$\mathbf{n}\$ 6°\$\mathbf{n}\$56'40 7°\$\mathbf{n}\$34'44 21°\$\mathbf{n}\$22'38	1°39'19 0.59606 AU 27°37'34 1.31630 AU 1°09'09	min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj	8732 Jun 15 14:59 8732 Jun 18 17:02 8732 Jun 22 06:03 8732 Jun 25 19:50 8732 Jun 28 23:16 8732 Jul 13 03:28 8732 Jul 13 15:10 8732 Aug 04 04:03 8732 Aug 15 17:48 8732 Aug 18 05:52 8732 Aug 19 16:16 8732 Aug 21 08:35	30°R.II 26°II.52'31 23°II.51'38 22°II.00'11 21°II.29'29 29°II.30'31 0°S 0°N 21°N.45'04 26°N.57'10 0°M 3°M.37'22 7°M.39'42	0.61861 AU 27°56'00 1.32010 AU 0°48'31
min. Earth dist. desc. node morning rise direct morning max el asc. node morning set max. Earth dist.	8731 Jul 04 03:09 8731 Jul 07 09:02 8731 Jul 09 22:46 8731 Jul 11 04:14 8731 Jul 17 13:59 8731 Jul 31 22:29 8731 Aug 11 04:26 8731 Aug 28 22:59 8731 Sep 01 08:55 8731 Sep 01 16:12 8731 Sep 08 01:10 8731 Sep 08 19:08 8731 Sep 08 16:53	17°\$22'03 14°\$30'40 12°\$31'51 11°\$44'45 9°\$49'54 17°\$41'40 0°\$\Omega\$ 0°\$\mathbf{n}\$ 6°\$\mathbf{n}\$56'40 7°\$\mathbf{n}\$34'44 21°\$\mathbf{n}\$22'38 23°\$\mathbf{n}\$02'11 22°\$\mathbf{n}\$49'44	1°39'19 0.59606 AU 27°37'34 1.31630 AU	min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong	8732 Jun 15 14:59 8732 Jun 18 17:02 8732 Jun 22 06:03 8732 Jun 25 19:50 8732 Jun 28 23:16 8732 Jul 13 03:28 8732 Jul 13 15:10 8732 Aug 04 04:03 8732 Aug 15 17:48 8732 Aug 18 05:52 8732 Aug 19 16:16 8732 Aug 21 08:35	30°R.II 26°II.52'31 23°II.51'38 22°II.00'11 21°II.29'29 29°II.30'31 0°S 0°N 21°N.45'04 26°N.57'10 0°M 3°M.37'22 7°M.39'42 7°M.28'58	0.61861 AU 27°56'00 1.32010 AU
min. Earth dist. desc. node morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong	8731 Jul 04 03:09 8731 Jul 07 09:02 8731 Jul 07 09:02 8731 Jul 11 04:14 8731 Jul 17 13:59 8731 Jul 31 22:29 8731 Aug 11 04:26 8731 Aug 28 22:59 8731 Sep 01 08:55 8731 Sep 01 16:12 8731 Sep 08 01:10 8731 Sep 08 19:08 8731 Sep 08 16:53 8731 Sep 11 22:33	17°\$22'03 14°\$30'40 12°\$31'51 11°\$44'45 9°\$49'54 17°\$41'40 0°\$\Omega\$ 0°\$\mathbf{n}\$ 6°\$\mathbf{n}\$56'40 7°\$\mathbf{n}\$34'44 21°\$\mathbf{n}\$22'38 23°\$\mathbf{n}\$02'11 22°\$\mathbf{n}\$49'44 0°\$\mathbf{n}\$	1°39'19 0.59606 AU 27°37'34 1.31630 AU 1°09'09	min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj	8732 Jun 15 14:59 8732 Jun 18 17:02 8732 Jun 22 06:03 8732 Jun 25 19:50 8732 Jun 28 23:16 8732 Jul 13 03:28 8732 Jul 13 15:10 8732 Aug 04 04:03 8732 Aug 15 17:48 8732 Aug 18 05:52 8732 Aug 19 16:16 8732 Aug 21 08:35 8732 Aug 23 04:59 8732 Aug 23 03:01 8732 Aug 30 00:10	30°R. II 26° II 52'31 23° II 51'38 22° II 00'11 21° II 29'29 29° II 30'31 0° II 21° II 45'04 26° II 57'10 0° III 3° III 39'42 7° III 39'58 22° III 31'55	0.61861 AU 27°56'00 1.32010 AU 0°48'31
min. Earth dist. desc. node morning rise direct morning max el asc. node morning set max. Earth dist. superior conj	8731 Jul 04 03:09 8731 Jul 07 09:02 8731 Jul 07 09:02 8731 Jul 11 04:14 8731 Jul 17 13:59 8731 Jul 31 22:29 8731 Aug 11 04:26 8731 Aug 28 22:59 8731 Sep 01 08:55 8731 Sep 01 16:12 8731 Sep 08 01:10 8731 Sep 08 19:08 8731 Sep 08 16:53 8731 Sep 11 22:33 8731 Sep 15 12:58	17°\$22'03 14°\$30'40 12°\$31'51 11°\$44'45 9°\$49'54 17°\$41'40 0°\$1 0°\$1 0°\$1 21°\$10\$22'38 23°\$1002'11 22°\$149'44 0°\$2 7°\$50'25	1°39'19 0.59606 AU 27°37'34 1.31630 AU 1°09'09	min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong	8732 Jun 15 14:59 8732 Jun 18 17:02 8732 Jun 22 06:03 8732 Jun 25 19:50 8732 Jun 28 23:16 8732 Jul 13 03:28 8732 Jul 13 15:10 8732 Aug 04 04:03 8732 Aug 15 17:48 8732 Aug 18 05:52 8732 Aug 19 16:16 8732 Aug 21 08:35 8732 Aug 23 04:59 8732 Aug 23 03:01 8732 Aug 30 00:10 8732 Sep 02 13:45	30°R. II 26° II 52'31 23° II 51'38 22° II 00'11 21° II 29'29 29° II 30'31 0° II 0° II 21° A45'04 26° A57'10 0° III 3° III 37'22 7° III 39'42 7° III 39'55 0° II	0.61861 AU 27°56'00 1.32010 AU 0°48'31
min. Earth dist. desc. node morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise	8731 Jul 04 03:09 8731 Jul 07 09:02 8731 Jul 07 09:02 8731 Jul 11 04:14 8731 Jul 17 13:59 8731 Jul 31 22:29 8731 Aug 11 04:26 8731 Aug 28 22:59 8731 Sep 01 08:55 8731 Sep 01 16:12 8731 Sep 08 01:10 8731 Sep 08 16:53 8731 Sep 11 22:33 8731 Sep 15 12:58 8731 Sep 26 22:49	17°\$22'03 14°\$30'40 12°\$31'51 11°\$44'45 9°\$49'54 17°\$41'40 0°\$\Omega\$ 0°\$\mathbf{m}\$ 6°\$\mathbf{m}\$56'40 7°\$\mathbf{m}\$22'38 23°\$\mathbf{m}\$02'11 22°\$\mathbf{m}\$49'44 0°\$\Omega\$ 7°\$\Omega\$50'25 0°\$\mathbf{m}\$	1°39'19 0.59606 AU 27°37'34 1.31630 AU 1°09'09	min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise	8732 Jun 15 14:59 8732 Jun 18 17:02 8732 Jun 22 06:03 8732 Jun 25 19:50 8732 Jun 28 23:16 8732 Jul 13 03:28 8732 Jul 13 15:10 8732 Aug 04 04:03 8732 Aug 15 17:48 8732 Aug 18 05:52 8732 Aug 19 16:16 8732 Aug 21 08:35 8732 Aug 23 04:59 8732 Aug 23 03:01 8732 Aug 30 00:10 8732 Sep 02 13:45 8732 Sep 21 04:49	30°R.II 26°I.52'31 23°I.51'38 22°II.00'11 21°II.29'29 29°II.30'31 0°\$ 0°\$\Omega\$ 21°\$\Omega.45'04 26°\$\Omega.57'10 0°\$\mathred{m}\$ 3°\$\mathred{m}\$37'22 7°\$\mathred{m}\$39'42 7°\$\mathred{m}\$28'58 22°\$\mathred{m}\$31'55 0°\$\Omega\$ 0°\$\mathred{m}\$	0.61861 AU 27°56'00 1.32010 AU 0°48'31
min. Earth dist. desc. node morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node	8731 Jul 04 03:09 8731 Jul 07 09:02 8731 Jul 07 09:02 8731 Jul 11 04:14 8731 Jul 17 13:59 8731 Jul 31 22:29 8731 Aug 11 04:26 8731 Aug 28 22:59 8731 Sep 01 08:55 8731 Sep 01 16:12 8731 Sep 08 01:10 8731 Sep 08 16:53 8731 Sep 11 22:33 8731 Sep 15 12:58 8731 Sep 26 22:49 8731 Oct 05 21:28	17°\$22'03 14°\$30'40 12°\$31'51 11°\$44'45 9°\$49'54 17°\$41'40 0°\$\Omega\$ 0°\$\mathbf{m}\$22'38 23°\$\mathbf{m}\$02'11 22°\$\mathbf{m}\$49'44 0°\$\Omega\$ 7°\$\Delta\$50'25 0°\$\mathbf{m}\$ 13°\$\mathbf{m}\$39'14	1°39'19 0.59606 AU 27°37'34 1.31630 AU 1°09'09 1°08'45	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	8732 Jun 15 14:59 8732 Jun 18 17:02 8732 Jun 22 06:03 8732 Jun 25 19:50 8732 Jun 28 23:16 8732 Jul 13 03:28 8732 Jul 13 15:10 8732 Aug 04 04:03 8732 Aug 15 17:48 8732 Aug 18 05:52 8732 Aug 19 16:16 8732 Aug 21 08:35 8732 Aug 23 04:59 8732 Aug 23 03:01 8732 Aug 30 00:10 8732 Sep 02 13:45 8732 Sep 21 04:49 8732 Sep 21 18:34	30°R II 26° II 52'31 23° II 51'38 22° II 00'11 21° II 29'29 29° II 30'31 0° II 0° II 21° A 45'04 26° A 57'10 0° II 3° II 39'42 7° II 39'42 7° II 39'42 7° II 39'42 0° II 30'55 0° II 0° III 0° III 0° III 38'37	0.61861 AU 27°56'00 1.32010 AU 0°48'31 0°48'04
min. Earth dist. desc. node morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node evening max el	8731 Jul 04 03:09 8731 Jul 07 09:02 8731 Jul 07 09:02 8731 Jul 11 04:14 8731 Jul 17 13:59 8731 Jul 31 22:29 8731 Aug 11 04:26 8731 Aug 28 22:59 8731 Sep 01 08:55 8731 Sep 01 16:12 8731 Sep 08 01:10 8731 Sep 08 16:53 8731 Sep 11 22:33 8731 Sep 15 12:58 8731 Sep 26 22:49 8731 Oct 05 21:28 8731 Oct 13 18:20	17°\$22'03 14°\$30'40 12°\$31'51 11°\$44'45 9°\$49'54 17°\$41'40 0°\$\mathbb{\alpha}\$ 0°\$\mathbb{\mat	1°39'19 0.59606 AU 27°37'34 1.31630 AU 1°09'09	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	8732 Jun 15 14:59 8732 Jun 18 17:02 8732 Jun 22 06:03 8732 Jun 25 19:50 8732 Jun 28 23:16 8732 Jul 13 03:28 8732 Jul 13 15:10 8732 Aug 04 04:03 8732 Aug 15 17:48 8732 Aug 15 17:48 8732 Aug 19 16:16 8732 Aug 21 08:35 8732 Aug 23 04:59 8732 Aug 23 03:01 8732 Aug 30 00:10 8732 Sep 02 13:45 8732 Sep 21 04:49 8732 Sep 21 18:34 8732 Sep 24 08:16	30°R II 26° II 52'31 23° II 51'38 22° II 00'11 21° II 29'29 29° II 30'31 0° II 0° II 21° A45'04 26° A57'10 0° II 3° II 39'42 7° II 39'42 7° II 28'58 22° II 31'55 0° II 0° II 0° III 0° III 38'37 3° III 18'01	0.61861 AU 27°56'00 1.32010 AU 0°48'31
min. Earth dist. desc. node 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	8731 Jul 04 03:09 8731 Jul 07 09:02 8731 Jul 07 09:02 8731 Jul 09 22:46 8731 Jul 11 04:14 8731 Jul 17 13:59 8731 Jul 31 22:29 8731 Aug 11 04:26 8731 Aug 28 22:59 8731 Sep 01 08:55 8731 Sep 01 16:12 8731 Sep 08 01:10 8731 Sep 08 19:08 8731 Sep 08 16:53 8731 Sep 11 22:33 8731 Sep 12:58 8731 Sep 26 22:49 8731 Oct 05 21:28 8731 Oct 13 18:20 8731 Oct 27 16:27	17°\$22'03 14°\$30'40 12°\$31'51 11°\$44'45 9°\$49'54 17°\$41'40 0°\$\hat{L}\$ 0°\$\mathbf{m}\$ 6°\$\mathbf{m}\$56'40 7°\$\mathbf{m}\$22'38 23°\$\mathbf{m}\$02'11 22°\$\mathbf{m}\$49'44 0°\$\mathbf{L}\$ 0°\$\mathbf{m}\$ 7°\$\mathbf{L}\$50'25 0°\$\mathbf{m}\$ 13°\$\mathbf{m}\$39'14 22°\$\mathbf{m}\$40'16 29°\$\mathbf{m}\$43'31	1°39'19 0.59606 AU 27°37'34 1.31630 AU 1°09'09 1°08'45	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	8732 Jun 15 14:59 8732 Jun 18 17:02 8732 Jun 22 06:03 8732 Jun 25 19:50 8732 Jun 28 23:16 8732 Jul 13 03:28 8732 Jul 13 15:10 8732 Aug 04 04:03 8732 Aug 15 17:48 8732 Aug 15 17:48 8732 Aug 19 16:16 8732 Aug 21 08:35 8732 Aug 23 04:59 8732 Aug 23 03:01 8732 Aug 30 00:10 8732 Sep 02 13:45 8732 Sep 21 04:49 8732 Sep 21 18:34 8732 Sep 24 08:16 8732 Oct 08 02:55	30°R II 26° II 52'31 23° II 51'38 22° II 00'11 21° II 29'29 29° II 30'31 0° © 0° R 21° R 45'04 26° R 57'10 0° II 3° II 39'42 7° II 39'42 7° II 39'42 7° II 38'55 0° II 0° II 38'37 3° II 18'01 10° II 13'14	0.61861 AU 27°56'00 1.32010 AU 0°48'31 0°48'04
min. Earth dist. desc. node morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node evening max el	8731 Jul 04 03:09 8731 Jul 07 09:02 8731 Jul 07 09:02 8731 Jul 11 04:14 8731 Jul 17 13:59 8731 Jul 31 22:29 8731 Aug 11 04:26 8731 Aug 28 22:59 8731 Sep 01 08:55 8731 Sep 01 16:12 8731 Sep 08 01:10 8731 Sep 08 16:53 8731 Sep 11 22:33 8731 Sep 15 12:58 8731 Sep 26 22:49 8731 Oct 05 21:28 8731 Oct 13 18:20	17°\$22'03 14°\$30'40 12°\$31'51 11°\$44'45 9°\$49'54 17°\$41'40 0°\$\mathbb{\alpha}\$ 0°\$\mathbb{\mat	1°39'19 0.59606 AU 27°37'34 1.31630 AU 1°09'09 1°08'45	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	8732 Jun 15 14:59 8732 Jun 18 17:02 8732 Jun 22 06:03 8732 Jun 25 19:50 8732 Jun 28 23:16 8732 Jul 13 03:28 8732 Jul 13 15:10 8732 Aug 04 04:03 8732 Aug 15 17:48 8732 Aug 15 17:48 8732 Aug 19 16:16 8732 Aug 21 08:35 8732 Aug 23 04:59 8732 Aug 23 03:01 8732 Aug 30 00:10 8732 Sep 02 13:45 8732 Sep 21 04:49 8732 Sep 21 18:34 8732 Sep 24 08:16	30°R.II 26°II.52'31 23°II.51'38 22°II.00'11 21°II.29'29 29°II.30'31 0°© 0°R 21°R.45'04 26°R.57'10 0°M 3°M.37'22 7°M.39'42 7°M.28'58 22°M.31'55 0°P. 0°M. 0°M.38'37 3°M.18'01 10°M.13'14 9°M.12'34	0.61861 AU 27°56'00 1.32010 AU 0°48'31 0°48'04
min. Earth dist. desc. node 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	8731 Jul 04 03:09 8731 Jul 07 09:02 8731 Jul 07 09:02 8731 Jul 09 22:46 8731 Jul 11 04:14 8731 Jul 17 13:59 8731 Jul 31 22:29 8731 Aug 11 04:26 8731 Aug 28 22:59 8731 Sep 01 08:55 8731 Sep 01 16:12 8731 Sep 08 01:10 8731 Sep 08 19:08 8731 Sep 08 16:53 8731 Sep 11 22:33 8731 Sep 15 12:58 8731 Sep 15 12:58 8731 Oct 05 21:28 8731 Oct 05 21:28 8731 Oct 27 16:27 8731 Nov 03 00:49	17°\$22'03 14°\$30'40 12°\$31'51 11°\$44'45 9°\$49'54 17°\$41'40 0°\$\Omega\$0 0°\$\mathbf{m}\$6'40 7°\$\mathbf{m}\$34'44 21°\$\mathbf{m}\$22'38 23°\$\mathbf{m}\$02'11 22°\$\mathbf{m}\$49'44 0°\$\mathbf{n}\$ 7°\$\mathbf{n}\$50'25 0°\$\mathbf{m}\$ 13°\$\mathbf{m}\$39'14 22°\$\mathbf{m}\$40'16 29°\$\mathbf{m}\$43'31 28°\$\mathbf{m}\$07'58	1°39'19 0.59606 AU 27°37'34 1.31630 AU 1°09'09 1°08'45 25°59'00 0.58419 AU	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 evening set	8732 Jun 15 14:59 8732 Jun 18 17:02 8732 Jun 22 06:03 8732 Jun 25 19:50 8732 Jun 28 23:16 8732 Jul 13 03:28 8732 Jul 13 15:10 8732 Aug 04 04:03 8732 Aug 15 17:48 8732 Aug 18 05:52 8732 Aug 19 16:16 8732 Aug 21 08:35 8732 Aug 23 04:59 8732 Aug 23 03:01 8732 Aug 30 00:10 8732 Sep 02 13:45 8732 Sep 21 04:49 8732 Sep 21 08:16 8732 Oct 08 02:55 8732 Oct 13 08:21	30°R.II 26°II.52'31 23°II.51'38 22°II.00'11 21°II.29'29 29°II.30'31 0°© 0°R 21°R.45'04 26°R.57'10 0°M 3°M.37'22 7°M.39'42 7°M.28'58 22°M.31'55 0°P. 0°M. 0°M.38'37 3°M.18'01 10°M.13'14 9°M.12'34	0.61861 AU 27°56'00 1.32010 AU 0°48'31 0°48'04 24°31'27 0.56550 AU

minimum elong	8732 Oct 21 11:42	4°M42'00	5033131	minimum elong	8733 Oct 01 08:08	15° ≏ 36'08	5°25'58
morning rise	8732 Oct 21 11:42 8732 Oct 29 17:13	0°M43'10	3 33 34	morning rise	8733 Oct 01 08:08 8733 Oct 09 23:39	13 = 30 08 11° ⊆ 40'07	3 23 36
direct	8732 Nov 01 07:26	0°M24'58		direct	8733 Oct 07 23:57 8733 Oct 13 01:52	11° ⊆ 4007	
morning max el	8732 Nov 10 22:44	4°M58'45	19°32'56	morning max el	8733 Oct 24 06:46	16° ≏ 32'59	20°51'44
asc. node	8732 Nov 14 05:36	8°M36'27	19 32 30	asc. node	8733 Nov 01 02:37	26° ≏ 16'12	20 31 11
use. Houe	8732 Nov 26 20:24	0° ₹		use. Houe	8733 Nov 03 10:11	0°M	
morning set	8732 Nov 28 07:41	2° ₹ 756'15		morning set	8733 Nov 12 15:30	17°M38'51	
5 5 5 5				<i>5 5 1 1 1 1 1 1 1 1 1 1</i>	8733 Nov 18 13:50	0° ∡ ¹	
superior conj	8732 Dec 06 06:40	18° ₹ 53'42	1°23'49				
minimum elong	8732 Dec 06 09:27	19° ∡ °07′18	1°23'45	superior conj	8733 Nov 20 01:07	3° ∡ ¹01'55	1°36'03
	8732 Dec 12 02:07	0°ප		minimum elong	8733 Nov 20 02:42	3° ∡ 10′03	1°36'09
max. Earth dist.	8732 Dec 12 13:47	0° る 53'58	1.37797 AU	max. Earth dist.	8733 Nov 24 22:25	12° ≯ ′50′18	1.35769 AU
evening rise	8732 Dec 16 07:08	7° る 37'11		evening rise	8733 Nov 28 22:01	20° ∡ ¹26'26	
desc. node	8732 Dec 18 17:27	11° る 51'13			8733 Dec 04 05:35	0° ප	
	8732 Dec 29 23:19	0° ≈		desc. node	8733 Dec 05 14:28	2° る 21'27	
evening max el	8733 Jan 20 20:38	28°≈17'40	25°12'24		8733 Dec 23 22:41	0° ≈	
	8733 Jan 22 16:13	0° ∀		evening max el	8734 Jan 03 09:46	12° ≈ 03'47	26°18'11
retrograde	8733 Feb 01 20:49	5°) (14'43		retrograde	8734 Jan 16 05:04	19°≈18'21	
evening set	8733 Feb 07 15:16	2°) (51'11		evening set	8734 Jan 22 11:42	16° ≈ 45'57	0.66660 177
asc. node	8733 Feb 10 04:45	0°) 15'15		min. Earth dist.	8734 Jan 26 15:49	12° ≈ 25'02	0.66662 AU
: E 4 E 4	8733 Feb 10 09:56	30°R≈ 27°2 - 55142	0.67640 ATT	inferior conj	8734 Jan 28 07:56	10°≈22'29	0°05'04
min. Earth dist.	8733 Feb 12 01:52 8733 Feb 13 06:24	27°≈55'43	0.67649 AU 0°59'41	minimum elong transit middle	8734 Jan 28 07:47	10°≈22'55 10°≈22'55	0°05'10 0°05'10
inferior conj minimum elong	8733 Feb 13 06:24 8733 Feb 13 05:01	26°≈22'53 26°≈27'24	0°59'16	transit begin	8734 Jan 28 07:47 8734 Jan 28 05:04	10 ≈22 33 10°≈31'16	0 03 10
morning rise	8733 Feb 18 19:06	20 ≈27 24 20°≈27'42	0 39 10	transit degiii	8734 Jan 28 10:31	10 ≈31 10 10°≈14'35	
direct	8733 Feb 22 07:45	20 ∞2742 19°≈16'10		asc. node	8734 Jan 28 01:51	10 ∞1433 10°≈41'08	
morning max el	8733 Mar 01 10:43	23°≈12'40	19°24'31	morning rise	8734 Feb 03 04:40	4°≈36'59	
morning max cr	8733 Mar 07 04:19	0° ∀	17 2431	direct	8734 Feb 06 06:22	3°≈43'40	
greatest brilliancy	8733 Mar 14 06:41	10° ¥ 06'22	-0.7m	morning max el	8734 Feb 12 21:15	7°≈18'22	18°35'40
desc. node	8733 Mar 16 17:10	13°) (45'14			8734 Mar 01 00:41	0° ∀	
morning set	8733 Mar 26 01:17	28°) (01'37		desc. node	8734 Mar 03 14:06	4°) €01'40	
	8733 Mar 27 07:58	0° Υ		morning set	8734 Mar 05 18:13	7° ¥ 27'08	
max. Earth dist.	8733 Apr 07 19:21	17° Y ′54'07	1.44859 AU		8734 Mar 20 02:55	0° Υ	
		••				••	
superior conj	8733 Apr 11 14:32	23° Y ′55'52		superior conj	8734 Mar 21 21:46	2° Υ 47'41	
minimum elong	8733 Apr 11 11:02	23° Y 41′56	2°09'52	minimum elong	8734 Mar 21 12:38	2° Y 11'53	1°49'09
		0.01.1		Č			
	8733 Apr 15 09:15	0°8		max. Earth dist.	8734 Mar 21 13:15	2° Y 14'18	1.45499 AU
evening rise	8733 Apr 25 18:12	17° 8 02'36		Č	8734 Mar 21 13:15 8734 Apr 06 12:23	2° Υ 14'18 27° Υ '25'08	1.45499 AU
-	8733 Apr 25 18:12 8733 May 03 13:32	17° ႘ 02'36 0°Ⅲ		max. Earth dist.	8734 Mar 21 13:15 8734 Apr 06 12:23 8734 Apr 08 03:15	2°Y14'18 27°Y25'08 0°8	
asc. node	8733 Apr 25 18:12 8733 May 03 13:32 8733 May 09 03:30	17° 8 02'36 0°П 8°П42'33	18°17'56	max. Earth dist. evening rise greatest brilliancy	8734 Mar 21 13:15 8734 Apr 06 12:23 8734 Apr 08 03:15 8734 Apr 14 21:37	2°Y14'18 27°Y25'08 0°8 10°845'25	1.45499 AU -0.8m
asc. node evening max el	8733 Apr 25 18:12 8733 May 03 13:32 8733 May 09 03:30 8733 May 14 16:33	17° 8 02'36 0°П 8°П42'33 15°П40'27	18°17'56	max. Earth dist. evening rise greatest brilliancy asc. node	8734 Mar 21 13:15 8734 Apr 06 12:23 8734 Apr 08 03:15 8734 Apr 14 21:37 8734 Apr 26 00:36	2°Y14'18 27°Y25'08 0°8 10°8'45'25 26°852'30	-0.8m
asc. node evening max el retrograde	8733 Apr 25 18:12 8733 May 03 13:32 8733 May 09 03:30 8733 May 14 16:33 8733 May 21 01:58	17° ႘ 02'36 0°Ⅲ 8°Ⅲ42'33 15°Ⅲ40'27 19°Ⅲ05'21	18°17'56	max. Earth dist. evening rise greatest brilliancy	8734 Mar 21 13:15 8734 Apr 06 12:23 8734 Apr 08 03:15 8734 Apr 14 21:37 8734 Apr 26 00:36 8734 Apr 28 03:40	2°Y14'18 27°Y25'08 0°8 10°845'25 26°852'30 29°813'54	
asc. node evening max el retrograde evening set	8733 Apr 25 18:12 8733 May 03 13:32 8733 May 09 03:30 8733 May 14 16:33 8733 May 21 01:58 8733 May 24 01:53	17° 8 02'36 0°П 8°П42'33 15°П40'27 19°П05'21 18°П16'39		max. Earth dist. evening rise greatest brilliancy asc. node evening max el	8734 Mar 21 13:15 8734 Apr 06 12:23 8734 Apr 08 03:15 8734 Apr 14 21:37 8734 Apr 26 00:36 8734 Apr 28 03:40 8734 Apr 28 22:48	2°Y14'18 27°Y25'08 0°8 10°8'45'25 26°8'52'30 29°8'13'54 0°II	-0.8m
asc. node evening max el retrograde evening set inferior conj	8733 Apr 25 18:12 8733 May 03 13:32 8733 May 09 03:30 8733 May 14 16:33 8733 May 21 01:58 8733 May 24 01:53 8733 May 29 23:53	17° 8 02'36 0° П 8° П 42'33 15° П 40'27 19° П 05'21 18° П 16'39 12° П 52'21	3°08'04	max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde	8734 Mar 21 13:15 8734 Apr 06 12:23 8734 Apr 08 03:15 8734 Apr 14 21:37 8734 Apr 26 00:36 8734 Apr 28 03:40 8734 Apr 28 22:48 8734 May 04 19:59	2°Y14'18 27°Y25'08 0°℧ 10°℧45'25 26°℧52'30 29°℧13'54 0°Ⅱ 2°Ⅱ55'31	-0.8m
asc. node evening max el retrograde evening set	8733 Apr 25 18:12 8733 May 03 13:32 8733 May 09 03:30 8733 May 14 16:33 8733 May 21 01:58 8733 May 24 01:53	17° 8 02'36 0°П 8°П42'33 15°П40'27 19°П05'21 18°П16'39		max. Earth dist. evening rise greatest brilliancy asc. node evening max el	8734 Mar 21 13:15 8734 Apr 06 12:23 8734 Apr 08 03:15 8734 Apr 14 21:37 8734 Apr 26 00:36 8734 Apr 28 03:40 8734 Apr 28 22:48 8734 May 04 19:59 8734 May 08 03:24	2°Y14'18 27°Y25'08 0°8 10°8'45'25 26°8'52'30 29°8'13'54 0°II	-0.8m
asc. node evening max el retrograde evening set inferior conj minimum elong	8733 Apr 25 18:12 8733 May 03 13:32 8733 May 09 03:30 8733 May 14 16:33 8733 May 21 01:58 8733 May 24 01:53 8733 May 29 23:53 8733 May 30 01:40	17° 8 02'36 0° П 8° П 42'33 15° П 40'27 19° П 05'21 18° П 16'39 12° П 52'21 12° П 47'16	3°08'04 3°07'37	max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde	8734 Mar 21 13:15 8734 Apr 06 12:23 8734 Apr 08 03:15 8734 Apr 14 21:37 8734 Apr 26 00:36 8734 Apr 28 03:40 8734 Apr 28 22:48 8734 May 04 19:59	2°Υ14'18 27°Υ25'08 0°℧ 10°℧45'25 26°℧52'30 29°℧13'54 0°Ⅱ 2°Ⅱ55'31 1°Ⅱ52'34	-0.8m
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	8733 Apr 25 18:12 8733 May 03 13:32 8733 May 09 03:30 8733 May 14 16:33 8733 May 21 01:58 8733 May 24 01:53 8733 May 29 23:53 8733 May 30 01:40 8733 Jun 01 10:28	17° 8 02'36 0° П 8° П 42'33 15° П 40'27 19° П 05'21 18° П 16'39 12° П 52'21 12° П 47'16 10° П 05'46	3°08'04 3°07'37	max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set	8734 Mar 21 13:15 8734 Apr 06 12:23 8734 Apr 08 03:15 8734 Apr 14 21:37 8734 Apr 26 00:36 8734 Apr 28 03:40 8734 Apr 28 22:48 8734 May 04 19:59 8734 May 08 03:24 8734 May 10 10:19	2°Y14'18 27°Y25'08 0°8 10°845'25 26°852'30 29°813'54 0°II 2°II55'31 1°II52'34 30°R8	-0.8m 18°48'28
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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. asc. node superior conj minimum elong evening rise	8733 Apr 25 18:12 8733 May 03 13:32 8733 May 09 03:30 8733 May 14 16:33 8733 May 21 01:58 8733 May 24 01:53 8733 May 29 23:53 8733 May 30 01:40 8733 Jun 01 10:28 8733 Jun 05 00:15 8733 Jun 11 17:29 8733 Jun 12 16:52 8733 Jun 25 12:43 8733 Jul 27 15:47 8733 Jul 27 15:47 8733 Jul 30 11:50 8733 Aug 04 09:27 8733 Aug 07 10:02 8733 Aug 07 10:02 8733 Aug 11 03:35 8733 Aug 14 11:44 8733 Aug 26 10:38	17°802'36 0°	3°08'04 3°07'37 0.63951 AU 27°37'08 1.32865 AU 0°23'32 0°23'10	max. Earth dist. 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.	8734 Mar 21 13:15 8734 Apr 06 12:23 8734 Apr 08 03:15 8734 Apr 08 03:15 8734 Apr 14 21:37 8734 Apr 26 00:36 8734 Apr 28 03:40 8734 Apr 28 22:48 8734 May 04 19:59 8734 May 10 10:19 8734 May 10 10:19 8734 May 13 17:33 8734 May 13 18:01 8734 May 15 12:57 8734 May 19 08:00 8734 May 25 19:20 8734 May 30 13:54 8734 Jun 07 23:19 8734 Jun 07 23:19 8734 Jul 13 19:10 8734 Jul 18 00:17 8734 Jul 19 12:42 8734 Jul 22 11:25 8734 Jul 22 11:25	2°Y14'18 27°Y25'08 0°8 10°845'25 26°852'30 29°813'54 0°II 2°II55'31 1°II52'34 30°R8 26°811'58 26°810'31 23°857'05 19°853'31 17°807'03 18°821'49 24°855'44 0°II 0°9 18°943'21 26°956'37 0°\$\Omega\$ 6°\$\Omega\$03'32 6°\$\Omega\$05'04	-0.8m 18°48'28 3°21'20 3°21'08 0.65713 AU 26°46'35
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. asc. node superior conj minimum elong evening rise evening max el	8733 Apr 25 18:12 8733 May 03 13:32 8733 May 09 03:30 8733 May 14 16:33 8733 May 21 01:58 8733 May 24 01:53 8733 May 29 23:53 8733 May 30 01:40 8733 Jun 01 10:28 8733 Jun 05 00:15 8733 Jun 11 17:29 8733 Jun 12 16:52 8733 Jun 12 16:52 8733 Jun 25 12:43 8733 Jul 09 20:20 8733 Jul 27 15:47 8733 Jul 30 11:50 8733 Aug 04 09:27 8733 Aug 05 02:50 8733 Aug 07 11:09 8733 Aug 07 10:02 8733 Aug 11 03:35 8733 Aug 14 11:44 8733 Aug 26 10:38 8733 Sep 05 19:30	17°802'36 0°	3°08'04 3°07'37 0.63951 AU 27°37'08 1.32865 AU 0°23'32 0°23'10	max. Earth dist. 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.	8734 Mar 21 13:15 8734 Apr 06 12:23 8734 Apr 08 03:15 8734 Apr 08 03:15 8734 Apr 14 21:37 8734 Apr 26 00:36 8734 Apr 28 03:40 8734 Apr 28 22:48 8734 May 04 19:59 8734 May 10 10:19 8734 May 10 10:19 8734 May 13 17:33 8734 May 13 18:01 8734 May 15 12:57 8734 May 19 08:00 8734 May 25 19:20 8734 May 30 13:54 8734 Jun 07 23:19 8734 Jun 07 23:19 8734 Jul 13 19:10 8734 Jul 13 19:10 8734 Jul 18 00:17 8734 Jul 19 12:42 8734 Jul 22 11:25 8734 Jul 22 11:25 8734 Jul 22 11:25	2°Y14'18 27°Y25'08 0°8 10°845'25 26°852'30 29°813'54 0°II 2°II55'31 1°II52'34 30°R8 26°811'58 26°810'31 23°857'05 19°853'31 17°807'03 18°821'49 24°855'44 0°II 0°\$ 18°\$43'21 26°\$56'37 0°\$ 6°\$\O3'32 6°\$\O3'32 6°\$\O3'40	-0.8m 18°48'28 3°21'20 3°21'08 0.65713 AU 26°46'35 1.34210 AU -0°05'12
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. asc. node superior conj minimum elong evening rise evening max el desc. node	8733 Apr 25 18:12 8733 May 03 13:32 8733 May 09 03:30 8733 May 14 16:33 8733 May 21 01:58 8733 May 24 01:53 8733 May 29 23:53 8733 May 30 01:40 8733 Jun 01 10:28 8733 Jun 05 00:15 8733 Jun 11 17:29 8733 Jun 12 16:52 8733 Jun 25 12:43 8733 Jul 27 15:47 8733 Jul 27 15:47 8733 Jul 30 11:50 8733 Aug 04 09:27 8733 Aug 05 02:50 8733 Aug 07 11:09 8733 Aug 07 10:02 8733 Aug 11 03:35 8733 Aug 14 11:44 8733 Aug 26 10:38 8733 Sep 05 19:30 8733 Sep 08 15:42	17° 802'36 0° 11 8° 1142'33 15° 1140'27 19° 1105'21 18° 116'39 12° 115'21 12° 1147'16 10° 1105'46 6° 1137'54 3° 1157'42 4° 1100'48 11° 1159'02 0° © 0° Ω 5° Ω30'47 15° Ω30'54 17° Ω02'20 22° Ω02'13 21° Ω56'13 0° 10 7° 11'07 0° Ω 13° Ω30'12 15° Ω59'53	3°08'04 3°07'37 0.63951 AU 27°37'08 1.32865 AU 0°23'32 0°23'10	max. Earth dist. 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.	8734 Mar 21 13:15 8734 Apr 06 12:23 8734 Apr 08 03:15 8734 Apr 08 03:15 8734 Apr 14 21:37 8734 Apr 26 00:36 8734 Apr 28 03:40 8734 Apr 28 22:48 8734 May 04 19:59 8734 May 08 03:24 8734 May 10 10:19 8734 May 13 17:33 8734 May 15 12:57 8734 May 15 12:57 8734 May 19 08:00 8734 May 25 19:20 8734 May 30 13:54 8734 Jun 07 23:19 8734 Jun 07 23:19 8734 Jul 13 19:10 8734 Jul 13 19:10 8734 Jul 18 00:17 8734 Jul 19 12:42 8734 Jul 22 11:25 8734 Jul 22 11:42 8734 Jul 22 11:42 8734 Jul 22 17:10	2°Y14'18 27°Y25'08 0°8 10°845'25 26°852'30 29°813'54 0°II 2°II55'31 1°II52'34 30°R8 26°810'31 23°857'05 19°853'31 17°807'03 18°821'49 24°855'44 0°II 0°9 18°943'21 26°956'37 0°\$\Omega\$ 6°\$\Omega\$03'32 6°\$\Omega\$05'04 5°\$\Omega\$33'30	-0.8m 18°48'28 3°21'20 3°21'08 0.65713 AU 26°46'35 1.34210 AU -0°05'12
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. asc. node superior conj minimum elong evening rise evening max el desc. node retrograde	8733 Apr 25 18:12 8733 May 03 13:32 8733 May 09 03:30 8733 May 14 16:33 8733 May 21 01:58 8733 May 24 01:53 8733 May 29 23:53 8733 May 30 01:40 8733 Jun 01 10:28 8733 Jun 05 00:15 8733 Jun 11 17:29 8733 Jun 12 16:52 8733 Jun 12 16:52 8733 Jun 25 12:43 8733 Jul 09 20:20 8733 Jul 27 15:47 8733 Jul 30 11:50 8733 Aug 04 09:27 8733 Aug 05 02:50 8733 Aug 07 11:09 8733 Aug 07 10:02 8733 Aug 11 03:35 8733 Aug 14 11:44 8733 Aug 26 10:38 8733 Sep 08 15:42 8733 Sep 19 01:24	17°802'36 0°	3°08'04 3°07'37 0.63951 AU 27°37'08 1.32865 AU 0°23'32 0°23'10	max. Earth dist. 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 behind sun begin behind sun end asc. node	8734 Mar 21 13:15 8734 Apr 06 12:23 8734 Apr 08 03:15 8734 Apr 08 03:15 8734 Apr 14 21:37 8734 Apr 26 00:36 8734 Apr 28 03:40 8734 Apr 28 22:48 8734 May 04 19:59 8734 May 08 03:24 8734 May 10 10:19 8734 May 13 17:33 8734 May 13 18:01 8734 May 15 12:57 8734 May 19 08:00 8734 May 25 19:20 8734 May 30 13:54 8734 Jun 07 23:19 8734 Jun 07 23:19 8734 Jul 13 19:10 8734 Jul 13 19:10 8734 Jul 18 00:17 8734 Jul 19 12:42 8734 Jul 22 11:25 8734 Jul 22 11:25 8734 Jul 22 11:42 8734 Jul 22 17:10 8734 Jul 22 23:49	2°Y14'18 27°Y25'08 0°8 10°845'25 26°852'30 29°813'54 0°II 2°II55'31 1°II52'34 30°R8 26°810'31 23°857'05 19°853'31 17°807'03 18°821'49 24°855'44 0°II 0°9 18°943'21 26°956'37 0°\$\Omega\$ 6°\$\Omega\$03'32 6°\$\Omega\$05'04 5°\$\Omega\$33'30 7°\$\Omega\$08'09	-0.8m 18°48'28 3°21'20 3°21'08 0.65713 AU 26°46'35 1.34210 AU -0°05'12
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. asc. node superior conj minimum elong evening rise evening max el desc. node	8733 Apr 25 18:12 8733 May 03 13:32 8733 May 09 03:30 8733 May 14 16:33 8733 May 21 01:58 8733 May 24 01:53 8733 May 29 23:53 8733 May 30 01:40 8733 Jun 01 10:28 8733 Jun 05 00:15 8733 Jun 11 17:29 8733 Jun 12 16:52 8733 Jun 12 16:52 8733 Jul 09 20:20 8733 Jul 27 15:47 8733 Jul 30 11:50 8733 Aug 04 09:27 8733 Aug 05 02:50 8733 Aug 07 11:09 8733 Aug 07 10:02 8733 Aug 11 03:35 8733 Aug 14 11:44 8733 Aug 26 10:38 8733 Sep 08 15:42 8733 Sep 19 01:24 8733 Sep 19 01:24 8733 Sep 22 18:37	17° 802'36 0° 11 8° 1142'33 15° 1140'27 19° 1105'21 18° 116'39 12° 1152'21 12° 1147'16 10° 1105'46 6° 1137'54 3° 1157'42 4° 1100'48 11° 1159'02 0° © 0° Ω 5° Ω30'47 15° Ω30'54 17° Ω02'20 22° Ω02'13 21° Ω56'13 0° 10 7° 110'107 0° Ω 13° Ω30'12 15° Ω59'53 20° Ω07'05 19° Ω36'48	3°08'04 3°07'37 0.63951 AU 27°37'08 1.32865 AU 0°23'32 0°23'10	max. Earth dist. 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.	8734 Mar 21 13:15 8734 Apr 06 12:23 8734 Apr 08 03:15 8734 Apr 08 03:15 8734 Apr 14 21:37 8734 Apr 26 00:36 8734 Apr 28 03:40 8734 Apr 28 22:48 8734 May 04 19:59 8734 May 08 03:24 8734 May 10 10:19 8734 May 13 17:33 8734 May 13 18:01 8734 May 15 12:57 8734 May 19 08:00 8734 May 25 19:20 8734 May 30 13:54 8734 Jun 07 23:19 8734 Jun 07 23:19 8734 Jul 13 19:10 8734 Jul 13 19:10 8734 Jul 18 00:17 8734 Jul 19 12:42 8734 Jul 22 11:25 8734 Jul 22 11:42 8734 Jul 22 17:10 8734 Jul 22 23:49 8734 Jul 29 21:44	2°Y14'18 27°Y25'08 0°8 10°845'25 26°852'30 29°813'54 0°II 2°II55'31 1°II52'34 30°R8 26°810'31 23°857'05 19°853'31 17°807'03 18°821'49 24°855'44 0°II 0°9 18°943'21 26°956'37 0°\$\Omega\$ 6°\$\Omega\$03'32 6°\$\Omega\$05'04 5°\$\Omega\$33'30	-0.8m 18°48'28 3°21'20 3°21'08 0.65713 AU 26°46'35 1.34210 AU -0°05'12
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. asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set	8733 Apr 25 18:12 8733 May 03 13:32 8733 May 09 03:30 8733 May 14 16:33 8733 May 21 01:58 8733 May 24 01:53 8733 May 29 23:53 8733 May 30 01:40 8733 Jun 01 10:28 8733 Jun 05 00:15 8733 Jun 11 17:29 8733 Jun 12 16:52 8733 Jun 12 16:52 8733 Jun 25 12:43 8733 Jul 09 20:20 8733 Jul 27 15:47 8733 Jul 30 11:50 8733 Aug 04 09:27 8733 Aug 05 02:50 8733 Aug 07 11:09 8733 Aug 07 10:02 8733 Aug 11 03:35 8733 Aug 14 11:44 8733 Aug 26 10:38 8733 Sep 08 15:42 8733 Sep 19 01:24	17° 802'36 0° 11 8° 1142'33 15° 1140'27 19° 1105'21 18° 116'39 12° 1152'21 12° 1147'16 10° 1105'46 6° 1137'54 3° 1157'42 4° 1100'48 11° 1159'02 0° © 0° Ω 5° Ω30'47 15° Ω30'54 17° Ω02'20 22° Ω02'13 21° Ω56'13 0° 10 7° 110'107 0° Ω 13° Ω30'12 15° Ω59'53 20° Ω07'05 19° Ω36'48	3°08'04 3°07'37 0.63951 AU 27°37'08 1.32865 AU 0°23'32 0°23'10 22°52'11	max. Earth dist. 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 behind sun begin behind sun end asc. node	8734 Mar 21 13:15 8734 Apr 06 12:23 8734 Apr 08 03:15 8734 Apr 08 03:15 8734 Apr 14 21:37 8734 Apr 26 00:36 8734 Apr 28 03:40 8734 Apr 28 22:48 8734 May 04 19:59 8734 May 08 03:24 8734 May 10 10:19 8734 May 13 17:33 8734 May 13 18:01 8734 May 15 12:57 8734 May 19 08:00 8734 May 25 19:20 8734 May 30 13:54 8734 Jun 07 23:19 8734 Jun 07 23:19 8734 Jul 13 19:10 8734 Jul 13 19:10 8734 Jul 18 00:17 8734 Jul 19 12:42 8734 Jul 22 11:25 8734 Jul 22 11:25 8734 Jul 22 11:42 8734 Jul 22 17:10 8734 Jul 22 23:49	2°Y14'18 27°Y25'08 0°8 10°845'25 26°852'30 29°813'54 0°II 2°II55'31 1°II52'34 30°R8 26°811'58 26°811'58 26°810'31 23°857'05 19°853'31 17°807'03 18°821'49 24°855'44 0°II 0°9 18°943'21 26°956'37 0°Ω 6°Ω03'32 6°Ω05'04 5°Ω36'40 6°Ω33'30 7°Ω08'09 21°Ω42'10	-0.8m 18°48'28 3°21'20 3°21'08 0.65713 AU 26°46'35 1.34210 AU -0°05'12

retrograde	8736 Jul 22 08:30	20° Ω 59'18		evening max el	8737 Jun 26 19:33	29° © 03'56	18°23'51
evening set	8736 Jul 24 06:40	20° Ω 47'34		evening man er	8737 Jun 27 19:50	0°Ω	10 23 01
desc. node	8736 Jul 30 07:04	18° Ω 05'31		retrograde	8737 Jul 04 07:24	2°Ω49'00	
inferior conj	8736 Aug 01 14:21	16° Ω 32'39 -	-0°42'22	evening set	8737 Jul 06 11:57	2° Ω 30'38	
minimum elong	8736 Aug 01 12:33	16° Ω 35'47	0°41'49	C	8737 Jul 11 07:48	30° ₹ 5	
min. Earth dist.	8736 Aug 04 13:09		0.56403 AU	inferior conj	8737 Jul 13 23:52	27° © 55'46	0°56'03
morning rise	8736 Aug 09 15:18	11° Ω 40'57		minimum elong	8737 Jul 14 01:45	27° © 51'55	0°55'10
direct	8736 Aug 14 23:12	10° Ω 34'14		desc. node	8737 Jul 17 04:08	25° © 21'21	
morning max el	8736 Aug 29 04:30	17° Ω 52'16	25°54'26	min. Earth dist.	8737 Jul 17 08:52	25° © 12'11	0.58335 AU
	8736 Sep 08 06:18	0° m y		morning rise	8737 Jul 21 12:08	22° © 28'17	
asc. node	8736 Sep 21 17:28	23° Mp 06'38		direct	8737 Jul 27 13:50	20° © 51'41	
	8736 Sep 25 02:09	0∘ ⊽		morning max el	8737 Aug 10 23:16	28° © 34'15	27°09'48
morning set	8736 Sep 26 01:06	2° ഫ 01'27			8737 Aug 12 09:13	$0^{\circ}\Omega$	
					8737 Sep 02 00:16	0° m/y	
superior conj	8736 Oct 02 21:58	17° ≏ 03'43	1°31'46	asc. node	8737 Sep 08 14:23	12° m 49'57	
minimum elong	8736 Oct 02 20:15	16° ≏ 54'12	1°31'40	morning set	8737 Sep 10 10:00	16°₩37'24	
max. Earth dist.	8736 Oct 03 20:49	19° ჲ 09'53	1.31986 AU		8737 Sep 16 13:25	0∘ ত	
	8736 Oct 08 20:48	0°M					
evening rise	8736 Oct 09 21:57	2°M12'08		superior conj	8737 Sep 17 09:45	1° ≏ 52'55	1°18'52
	8736 Oct 25 00:01	0° ∡ 7		minimum elong	8737 Sep 17 07:34	1° ≏ 40'47	1°18'34
desc. node	8736 Oct 26 05:40	1° ₹ 56'14		max. Earth dist.	8737 Sep 17 06:39	1° ≏ 35'38	1.31623 AU
evening max el	8736 Nov 10 19:27	21° ∡ ³37'34	27°20'12	evening rise	8737 Sep 24 04:39	16° ≙ 44'51	
retrograde	8736 Nov 24 15:33	28° ₹ 50'46			8737 Sep 30 17:54	0°M₊	
evening set	8736 Dec 01 17:21	26° ₹ 32'38		desc. node	8737 Oct 13 02:46	20°M38'45	
min. Earth dist.	8736 Dec 05 09:53	23° ҂ 42'53	0.61696 AU		8737 Oct 20 11:05	0° ∡ ″	
inferior conj	8736 Dec 08 10:13	21° × ⁷ 00'12 -	-3°16'08	evening max el	8737 Oct 23 21:26	3° ҂ ³32′07	26°37'54
minimum elong	8736 Dec 08 16:27		3°13'45	retrograde	8737 Nov 06 19:25	10° ≯ 39'38	
morning rise	8736 Dec 15 17:49	16° ₰ 00'36		evening set	8737 Nov 13 13:36	8° ₰ ⁴45'29	
direct	8736 Dec 17 23:22	15° ₹ 39'16		min. Earth dist.	8737 Nov 17 11:12	6° ₰ 09'56	0.59606 AU
asc. node	8736 Dec 18 17:03	15° ∡ ′41'40		inferior conj	8737 Nov 20 15:59	3° ₰ ³39'06	
morning max el	8736 Dec 24 22:12		17°51'48	minimum elong	8737 Nov 20 23:25	3° ₹ 24'25	4°21'46
	8737 Jan 01 20:03	0° ろ			8737 Nov 25 23:48	30°RM	
morning set	8737 Jan 09 15:38	13° る 44'48		morning rise	8737 Nov 28 11:42	29°M01'16	
	8737 Jan 18 18:42	0° ≈		direct	8737 Nov 30 16:36	28°M43'40	
				_	8737 Dec 05 03:43	0° ∡	
superior conj	8737 Jan 20 10:54		0°12'58	asc. node	8737 Dec 05 14:05	0° ₹ 15'33	
minimum elong	8737 Jan 20 12:04		0°12'59	morning max el	8737 Dec 08 09:50	2° ₹ 31'34	18°14'17
behind sun begin	8737 Jan 20 07:03	2°≈36'59		morning set	8737 Dec 24 04:05	27° ∡ ³36′07	
behind sun end	8737 Jan 20 17:06	3°≈20'06			8737 Dec 25 10:29	0° る	
desc. node	8737 Jan 22 04:52	5°≈52'34	1 42115 ATT		0720 1 02 14 02	150=710122	0047120
max. Earth dist.	8737 Jan 27 18:48		1.43115 AU	superior conj	8738 Jan 02 14:02	15° る 10'22	
evening rise	8737 Feb 03 13:50	26°≈01'12		minimum elong desc. node	8738 Jan 02 17:10 8738 Jan 09 01:48	15°る24'32 26°る37'00	0°47'14
	8737 Feb 06 03:16 8737 Feb 26 19:24	0° ∀ 0° Υ			8738 Jan 09 01:48 8738 Jan 10 04:54	26° ろ 37'00 28° ろ 32'31	1.41193 AU
evening max el	8737 Mar 07 08:13		21°50'19	max. Earth dist.	8738 Jan 11 01:37	28 O 32 31 0° ≈	1.41193 AU
retrograde	8737 Mar 16 13:41	15° Υ 39'56	21 30 19	evening rise	8738 Jan 14 23:49	0 ∞ 6°≈30'01	
asc. node	8737 Mar 16 15:54	15° Υ 39'53		evening rise	8738 Jan 30 07:18	0° X	
evening set	8737 Mar 21 00:59	13° Υ 51'18		evening max el	8738 Feb 18 00:04	23° ¥ 54'55	23°09'35
inferior conj	8737 Mar 26 08:27		2°42'22	J. Jimig max of	8738 Feb 27 11:38	25 γ (3433	_5 5/55
minimum elong	8737 Mar 26 06:19		2°41'50	retrograde	8738 Feb 28 09:08	0° Υ 03'38	
min. Earth dist.	8737 Mar 26 10:03		0.68409 AU		8738 Mar 01 06:11	30°R ₩	
morning rise	8737 Mar 31 11:31	1° Y 20'40		asc. node	8738 Mar 03 13:02	29°) 14'17	
	8737 Apr 02 09:32	30° ₹		evening set	8738 Mar 05 07:52	28°) €00'21	
direct	8737 Apr 05 09:58	29°) (13'22		inferior conj	8738 Mar 10 17:12	21°) 34'23	2°09'16
	8737 Apr 08 16:01	0°Υ		minimum elong	8738 Mar 10 14:59	21°) 42'05	2°08'37
morning max el	8737 Apr 15 04:44		22°36'44	min. Earth dist.	8738 Mar 10 06:49	22° H 10'15	0.68430 AU
desc. node	8737 Apr 20 04:46	10° Ƴ 36'01		morning rise	8738 Mar 15 22:01	15°) €27'39	
	8737 May 04 09:05	0°8		direct	8738 Mar 20 06:37	13°) 42′28	
morning set	8737 May 19 03:59	23° 8 00'14		morning max el	8738 Mar 28 20:07	18°) (38'54	21°12'27
5	8737 May 23 08:46	0°Щ		desc. node	8738 Apr 07 01:42	29°) (49'18	
max. Earth dist.	8737 May 23 22:47		1.40425 AU		8738 Apr 07 04:51	0°Υ	
	•				8738 Apr 27 12:27	0°8	
superior conj	8737 May 31 17:37	14° Ⅲ 38'51 -	-1°38'35	morning set	8738 Apr 28 20:28	2° 8 05'26	
minimum elong	•	15° Ⅱ 05'13		max. Earth dist.	8738 May 06 01:18		1.42512 AU
٥	8737 May 31 23:27	15 1105 15					
	8737 Jun 09 00:09	0.20 12 T 02 12			•		
evening rise	•			superior conj	8738 May 13 07:49	25° 8 48'30	
evening rise asc. node	8737 Jun 09 00:09	0ಂತಾ			•	25° 8 48'30 26° 8 10'43	-2°01'45

	8738 May 15 18:08	$\Pi^{\circ}0$		evening rise	8739 May 07 01:15	27° 8 57'28	
evening rise	8738 May 24 18:53	16° Ⅱ 03'26			8739 May 08 05:49	Π $^{\circ}0$	
asc. node	8738 May 30 11:49	26° Ⅱ 15′09		asc. node	8739 May 17 08:54	15° Ⅱ 18'24	
	8738 Jun 01 16:14	0ංම		evening max el	8739 May 24 19:57	25° Ⅱ 16′00	18°08'34
evening max el	8738 Jun 10 06:31	11° © 59'22	18°06'38	retrograde	8739 May 31 05:19	28° Ⅲ 36'47	
retrograde	8738 Jun 16 23:44	15° 5 24'47		evening set	8739 Jun 03 01:03	27° Ⅲ 55'53	
evening set	8738 Jun 19 11:55	14°956'21		inferior conj	8739 Jun 09 05:16	22° ∏ 42'02	2°52'11
inferior conj	8738 Jun 26 06:05	10°901'27	2°07'12	minimum elong	8739 Jun 09 07:42	22° I I35'28	
minimum elong	8738 Jun 26 09:05	9°954'22	2°06'07	min. Earth dist.	8739 Jun 12 00:11	19° ∏ 43'37	
•							0.02783 AU
min. Earth dist.	8738 Jun 29 12:10	6°958'25	0.60564 AU	morning rise	8739 Jun 15 12:42	16° Ⅲ 32'55	
morning rise	8738 Jul 03 03:33	4° © 07'46		desc. node	8739 Jun 20 22:16	14° ∏ 07'15	
desc. node	8738 Jul 04 01:12	3° © 35'17		direct	8739 Jun 22 06:56	14° Ⅱ 01′20	
direct	8738 Jul 09 17:19	2° © 00'14		morning max el	8739 Jul 06 07:49	22° Ⅲ 04'11	27°52'15
morning max el	8738 Jul 24 00:53	9° © 58'02	27°50'12		8739 Jul 13 06:31	0ಂ ತಾ	
	8738 Aug 08 13:11	$0^{\circ}\Omega$			8739 Aug 01 17:27	$0^{\circ}\Omega$	
	8738 Aug 25 03:27	0° m/		morning set	8739 Aug 09 13:34	14° Ω 59'39	
morning set	8738 Aug 25 14:53	0° m 59'07		asc. node	8739 Aug 13 08:16	22° Ω 48'39	
asc. node	8738 Aug 26 11:20	2° Mp 45'46		max. Earth dist.	8739 Aug 14 20:46	26°Ω02'48	1.32309 AU
max. Earth dist.	-	13° m) 57'15	1.31724 AU	max. Earth dist.	-	0° M)	1.32309 AU
max. Earm dist.	8738 Aug 31 15:56	13 11/3/13	1.31/24 AU		8739 Aug 16 16:45	עוו ט	
superior conj	8738 Sep 01 20:52	16° m) 36'44	1°00'58	superior conj	8739 Aug 17 05:24	1° m 08'39	0°38'27
	1	16° Mp 24'39	1°00'32	minimum elong	•	0° m 59'33	0°37'59
minimum elong	8738 Sep 01 18:40		1 00 32	Č	8739 Aug 17 03:43	•	0 37 39
	8738 Sep 07 22:58	0∘ ত		evening rise	8739 Aug 24 02:20	16° Mp 06'04	
evening rise	8738 Sep 08 14:47	1° £ 25'03			8739 Aug 30 22:26	0∘ ত	
	8738 Sep 23 23:18	0° M ₊		desc. node	8739 Sep 16 21:02	24° ≏ 44'00	
desc. node	8738 Sep 29 23:53	8°M22'35		evening max el	8739 Sep 17 03:28	24° ≏ 59'39	23°49'46
evening max el	8738 Oct 05 15:30	14°ML36'16	25°24'21		8739 Sep 23 20:19	0°M₊	
retrograde	8738 Oct 19 13:17	21°MJ37'33		retrograde	8739 Sep 30 18:33	1°M48'42	
evening set	8738 Oct 25 11:34	20°M16'36		evening set	8739 Oct 05 08:50	1°M02'31	
min. Earth dist.	8738 Oct 30 03:33	17°ML37'57	0.57574 AU	evening sec	8739 Oct 07 23:01	30°R Ω	
	8738 Nov 02 02:47	15°M36'15		min. Earth dist.	8739 Oct 07 23:01 8739 Oct 11 13:55	28° £ 02'18	0.55889 AU
inferior conj							
minimum elong	8738 Nov 02 08:28	15°M26'31	5°15'56	inferior conj	8739 Oct 13 17:13	26° £ 44'58	
morning rise	8738 Nov 10 07:41	11°ML21'04		minimum elong	8739 Oct 13 16:45	26° £ 45'40	5°37'09
direct	8738 Nov 12 16:40	11°MJ04'06		morning rise	8739 Oct 22 02:44	22° ≏ 49'05	
morning max el	8738 Nov 21 13:09	15°MJ18'45	18°57'47	direct	8739 Oct 24 21:31	22° ≏ 29'31	
asc. node	8738 Nov 22 11:05	16°M13'56		morning max el	8739 Nov 04 04:38	27° £ 20′26	20°03'46
	8738 Dec 01 20:29	0° ∡ ¹			8739 Nov 06 17:08	0°M	
morning set	8738 Dec 08 02:35	11° √ 54'44		asc. node	8739 Nov 09 08:05	3°M20'36	
morning sec	0750 200 00 02.50	11 7. 5		morning set	8739 Nov 22 07:45	26°M30'26	
aumorior comi	8738 Dec 16 12:10	28° ∡ °21'09	1012102	morning set	8739 Nov 24 00:46	20 11 0 30 20	
superior conj					8/39 NOV 24 UU.40	0 x .	
minimum elong	8738 Dec 16 15:24	28° ∡ 36'31	1°12'53			_	
	8738 Dec 17 08:56	0° ප		superior conj	8739 Nov 30 00:21	12° ≯ 11'14	1°29'57
max. Earth dist.	8738 Dec 23 11:01	11° る 12'20	1.39043 AU	minimum elong	8739 Nov 30 02:40	12° ∡ ¹22'47	1°29'57
desc. node	8738 Dec 26 22:48	17° る 19'17		max. Earth dist.	8739 Dec 05 17:22	23° ₹ 19′10	1.36907 AU
evening rise	8738 Dec 27 07:42	17° る 57'31			8739 Dec 09 07:59	8°0	
	8739 Jan 03 14:49	0° ≈		evening rise	8739 Dec 09 12:14	0° る 19'13	
	8739 Jan 24 16:53	0° ∀		desc. node	8739 Dec 13 19:50	7° る 55'08	
evening max el	8739 Jan 31 13:45	7°) 41'16	24°29'12		8739 Dec 27 20:03	0° ≈	
retrograde	8739 Feb 12 00:57	14°) (23'47	-: -/ - /	evening max el	8740 Jan 14 03:01	21°≈29'43	25°42'12
•		12°) (23 4 7		•	8740 Jan 26 12:05		23 42 12
evening set	8739 Feb 17 12:00			retrograde		28°≈35'14	
asc. node	8739 Feb 18 10:10	11° 米 16′12		evening set	8740 Feb 01 11:44	26°≈07'44	
min. Earth dist.	8739 Feb 22 02:47	6° ¥ 51'30	0.68047 AU	asc. node	8740 Feb 05 07:17	22°≈05'06	
inferior conj	8739 Feb 23 00:39	5° ¥ 38'17	1°27'30	min. Earth dist.	8740 Feb 05 19:36	21° ≈ 26′45	0.67276 AU
minimum elong	8739 Feb 22 22:49	5°) 44'27	1°26'56	inferior conj	8740 Feb 07 04:57	19° ≈ 40'51	0°37'29
	8739 Feb 27 22:27	30°R ≈		minimum elong	8740 Feb 07 04:01	19° ≈ 43'49	0°37'16
morning rise	8739 Feb 28 09:45	29° ≈ 38'08		morning rise	8740 Feb 12 20:45	13° ≈ 49'16	
direct	8739 Mar 04 05:20	28° ≈ 14'47		direct	8740 Feb 16 04:37	12° ≈ 45'45	
	8739 Mar 08 20:49	0° ∀		morning max el	8740 Feb 23 01:23	16°≈31'25	19°01'38
morning me1		0 K 2°₩29'53	10050127	morning max ci		10 ≈31 23 0° \	17 01 30
morning max el	8739 Mar 11 18:50		19°59'37	, , , , , , , , , , , , , , , , , , , ,	8740 Mar 04 10:22		0.0
desc. node	8739 Mar 24 22:36	19°) 33′19		greatest brilliancy	8740 Mar 07 19:52	5°) €05'53	-0.8m
	8739 Mar 31 23:04	$0^{\circ}\mathbf{\Upsilon}$		desc. node	8740 Mar 10 19:31	9° ∺ 39'57	
morning set	8739 Apr 07 19:12	10° Y 26′26		morning set	8740 Mar 16 23:18	19° ∺ 11'30	
max. Earth dist.	8739 Apr 18 10:59	27° Ƴ 07'55	1.44176 AU		8740 Mar 23 22:05	$0^{\circ}\mathbf{\Upsilon}$	
	8739 Apr 20 06:01	$0^{\circ}S$		max. Earth dist.	8740 Mar 31 03:01	11° Y 16'16	1.45225 AU
		-					
superior conj	8739 Apr 23 21:36	5° 8 54'08	-2°12'06	superior conj	8740 Apr 02 12:56	15° Ƴ 04'14	-2°03'53
minimum elong	8739 Apr 23 22:14	5° 8 56'43		minimum elong	8740 Apr 02 06:28	13 γ 04 14 14° Υ 38'43	
mmmum ciong	0133 Apr 23 22.14	J U J043	4 14 14	mmmum etong	0/40 Apr 02 00.28	17 1 30 43	4 03 33

	8740 Apr 11 21:38	0°8		superior conj	8741 Mar 12 17:57	23° ¥ 53′05	
evening rise	8740 Apr 17 09:07	8° 8 53'40		minimum elong	8741 Mar 12 08:21	23°) 15'29	
asc. node	8740 Apr 30 13:16 8740 May 03 06:00	0°Ⅱ 3°Ⅱ50'54		max. Earth dist.	8741 Mar 13 22:35 8741 Mar 16 15:45	25°) (45'08 0° Υ	1.45551 AU
evening max el	8740 May 07 08:43	3 П 3034 8° П 45'46	18°28'51	evening rise	8741 Mar 28 17:39	18° Υ 54'12	
retrograde	8740 May 07 08:43 8740 May 13 19:53	12° П 15'53	16 26 31	evening rise	8741 Mar 28 17:39 8741 Apr 04 19:37	0° 8	
evening set	8740 May 16 23:03	11° I I21'05		greatest brilliancy	8741 Apr 08 08:44	5° 8 29'42	-0.8m
inferior conj	8740 May 22 17:16	5° ∏ 49'42	3°15'41	asc. node	8741 Apr 20 03:07	21° 8 42'12	
minimum elong	8740 May 22 18:30	5° Ⅱ 46′03	3°15'23	evening max el	8741 Apr 20 18:15	22° 8 21'34	19°06'36
min. Earth dist.	8740 May 24 21:26	3° Ⅱ 15′18	0.64753 AU	retrograde	8741 Apr 27 15:44	26° 8 13'41	
	8740 May 28 00:38	30° ₹ 8		evening set	8741 May 01 02:39	25° 8 04'14	
morning rise	8740 May 28 13:04	29° 8 33'14		inferior conj	8741 May 06 14:25	19° 8 16'57	3°22'17
direct	8740 Jun 04 04:34	26° 8 48'57		minimum elong	8741 May 06 14:21	19° 8 17'09	3°22'08
desc. node	8740 Jun 06 19:17	27° 8 11'18		min. Earth dist.	8741 May 08 03:14	17° 8 19'01	0.66341 AU
	8740 Jun 12 06:54	0°Ⅱ 1°Ⅲ.514.6	25010101	morning rise	8741 May 12 01:37	12° 8 58'15	
morning max el	8740 Jun 17 17:45		27°19'01	direct	8741 May 18 08:56	10° 8 13'06	
marning gat	8740 Jul 06 20:53 8740 Jul 23 03:25	0°ഇ 28° ഇ 32'12		desc. node	8741 May 24 16:17	12° 8 23'02	26°17'34
morning set	8740 Jul 23 21:20	28 3 32 12 0° Ω		morning max el	8741 May 31 04:17 8741 Jun 10 08:41	0°Ⅱ	20 1/34
max. Earth dist.	8740 Jul 27 17:42	7° Ω 44'53	1.33384 AU		8741 Jun 29 20:13	0° ©	
asc. node	8740 Jul 30 05:15	12°Ω54'45	1.55504710	morning set	8741 Jul 06 04:59	11° © 27'08	
	0,100	000		max. Earth dist.	8741 Jul 10 04:07	19° © 01'27	1.34934 AU
superior conj	8740 Jul 31 09:20	15° Ω 23'05	0°11'47				
minimum elong	8740 Jul 31 08:45	15° Ω 19'57	0°11'29	superior conj	8741 Jul 15 06:14	29° © 13'01	-0°18'15
behind sun begin	8740 Jul 31 04:52	14° Ω 59'22		minimum elong	8741 Jul 15 07:17	29° 5 018'24	0°18'15
behind sun end	8740 Jul 31 12:38	15° Ω 40'34			8741 Jul 15 15:24	$0^{\circ}\Omega$	
	8740 Aug 07 05:25	0° m		asc. node	8741 Jul 17 02:14	2° Ω 59'45	
evening rise	8740 Aug 07 13:29	0° Mp 42′44		evening rise	8741 Jul 22 22:09	15° Ω 08'38	
	8740 Aug 24 02:51	0∘ ত			8741 Jul 30 11:48	0° ™	
evening max el	8740 Aug 28 16:24	5° Ω 11'49	22°10'29	evening max el	8741 Aug 10 14:54	15° Mp 48'06	20°41'50
desc. node	8740 Sep 02 18:10	9° Ω 13'47		desc. node	8741 Aug 20 15:16	21° Tp 21'31	
retrograde	8740 Sep 10 11:40	11° Ω 34'07		retrograde	8741 Aug 21 23:55	21°Mp26'12	
evening set	8740 Sep 13 14:24	11° Ω 12'38	0.54967.411	evening set	8741 Aug 24 02:38	21°M(15'19	2942110
min. Earth dist. inferior conj	8740 Sep 21 21:52 8740 Sep 22 15:04	7° £ 35'11 7° £ 11'02	0.54867 AU	inferior conj minimum elong	8741 Sep 02 07:34 8741 Sep 01 22:15	17° Mp 18'29 17° Mp 31'48	
minimum elong	8740 Sep 22 13:04 8740 Sep 22 07:20	7° £ 21'54		min. Earth dist.	8741 Sep 01 22.13 8741 Sep 03 06:50	16° Mp 45'07	0.54731 AU
morning rise	8740 Oct 01 01:50	3° <u>₽</u> 23'20	3 03 00	morning rise	8741 Sep 10 17:46	13° Mp 18'45	0.54751710
direct	8740 Oct 04 10:37	2° £ 58'08		direct	8741 Sep 14 18:43	12° mp 43'49	
morning max el	8740 Oct 16 06:53	8° ≏ 32'26	21°31'22	morning max el	8741 Sep 27 22:54	19° mp 03'54	23°14'20
asc. node	8740 Oct 26 05:02	21° ≏ 20'49		Ü	8741 Oct 06 23:34	0∘ <u>⊽</u>	
	8740 Oct 31 02:19	0° M		asc. node	8741 Oct 13 01:59	10° ≏ 02'16	
morning set	8740 Nov 05 17:01	11°M15'55		morning set	8741 Oct 21 04:22	26° ≙ 05'47	
					8741 Oct 23 00:13	0° M	
superior conj	8740 Nov 12 22:31	26°M29'08	1°38'58				
minimum elong	8740 Nov 12 23:33	26°M34'29	1°39'06	superior conj	8741 Oct 28 03:31	11° M .05'49	
	8740 Nov 14 15:15	0° ∡ 7		minimum elong	8741 Oct 28 03:17	11°M04'33	1°41'07
max. Earth dist.	8740 Nov 17 04:54	5° ₹ 12'58	1.35003 AU	max. Earth dist.	8741 Oct 31 00:19	17°M11'58	1.33474 AU
evening rise desc. node	8740 Nov 21 09:52	13° х 25'49 28° х 19'49		evening rise	8741 Nov 04 20:49	27°ML08′07 0°⊀	
desc. node	8740 Nov 29 16:52 8740 Nov 30 16:41	0°る		desc. node	8741 Nov 06 07:48 8741 Nov 16 13:55	0 x . 18° x 27'48	
	8740 Dec 21 18:18	0°≈		desc. node	8741 Nov 10 13:33 8741 Nov 23 23:34	10 メ 2 / 40 0°る	
evening max el	8740 Dec 26 16:23	5°≈13'22	26°41'12	evening max el	8741 Dec 09 05:10	18° පි 42'31	27°19'00
retrograde	8741 Jan 08 17:43	12° ≈ 31'00	20 11 12	retrograde	8741 Dec 22 17:23	26°පි03'30	2, 1, 00
evening set	8741 Jan 15 05:14	9° ≈ 56'30		evening set	8741 Dec 29 14:18	23° පි 28'12	
min. Earth dist.	8741 Jan 19 06:55	5°≈50'16	0.66133 AU	min. Earth dist.	8742 Jan 02 10:37	19° る 55'20	0.64638 AU
inferior conj	8741 Jan 21 03:57	3° ≈ 37'14	-0°20'25	inferior conj	8742 Jan 04 19:20	17° る 22'22	-1°25'15
minimum elong	8741 Jan 21 04:31	3° ≈ 35'34	0°19'58	minimum elong	8742 Jan 04 21:56	17° る 15'20	1°23'57
asc. node	8741 Jan 22 04:22	2° ≈ 25'47		asc. node	8742 Jan 09 01:25	13° ප 16'48	
	8741 Jan 24 11:13	30°₹ ⋜		morning rise	8742 Jan 11 07:09	11° る 55'20	
morning rise	8741 Jan 27 04:46	27° る 56'34		direct	8742 Jan 13 20:34	11° る 21'27	
direct	8741 Jan 30 02:27	27° る 09'43		morning max el	8742 Jan 20 06:57	14°₹43'45	17°55'08
	8741 Feb 04 22:08	0°≈ 0°≈ •2011.4	1001056		8742 Jan 31 03:55	0°≈ 10°≈ •44!20	
morning max el	8741 Feb 05 14:17	0°≈38'14	18°19'56	morning set	8742 Feb 06 14:52	10°≈44'30	
morning set desc. node	8741 Feb 25 04:24 8741 Feb 25 16:26	29°≈14'29 0°) €02'35		desc. node	8742 Feb 12 13:21 8742 Feb 18 07:39	20°≈36'41 0°) €	
uese. Houe	8741 Feb 25 16:26 8741 Feb 25 15:47	0° X 02'33			0/42 1700 10 07.39	υ Λ	
	0/71100 43 13.4/	υ Λ		superior conj	8742 Feb 20 07:59	3° ¥ 13'57	-0°54'32
				superior conj	5,12100 20 01.5)	J /(1JJ/	0 0 1 0 2

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evening rise 8742 Mar 08 09:04 28° X 19'06 8742 Mar 09 11:21 0° Y superior conj 8743 Jan 31 20:27 13° ≈ 40	
8742 Mar 09 11:21 0° Υ superior conj 8743 Jan 31 20:27 13°≈40	"29
r	
greatest brilliancy 8742 Mar 23 02:25 20°4 732'51 -0.6m minimum elong 8743 Jan 31 19:24 13°≈30	0'37 -0°10'29
074034 00 00 45 00 00	5'14 0°10'09
8742 Mar 29 20:45 0°8 behind sun begin 8743 Jan 31 12:13 13°≈00	
evening max el 8742 Apr 03 22:51 6°800'09 20°00'17 behind sun end 8743 Feb 01 02:34 14°≈00	
asc. node 8742 Apr 07 00:12 8°840'20 max. Earth dist. 8743 Feb 07 11:04 24°≈29 retrograde 8742 Apr 11 14:03 10°824'46 8743 Feb 10 22:07 0°%	9'28 1.44018 AU
	NE (
evening set 8742 Apr 15 09:28 9°800'20 evening rise 8743 Feb 15 20:47 7°\642 inferior conj 8742 Apr 20 17:44 2°858'59 3°15'24 8743 Mar 02 18:00 0°\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot	. 30
	0'15 21°07'23
min. Earth dist. 8742 Apr 21 16:02 1°843'42 0.67495 AU asc. node 8743 Mar 24 21:18 24°Y30	
8742 Apr 22 23:39 30°RY retrograde 8743 Mar 26 12:30 24°Y4	
morning rise 8742 Apr 25 23:27 26°Y41'20 evening set 8743 Mar 30 17:35 23°Y04	
	1'34 2°57'19
desc. node 8742 May 11 13:16 29°°°Y11'58 minimum elong 8743 Apr 04 22:53 16°°Y5	
8742 May 12 09:50 0°8 min. Earth dist. 8743 Apr 05 09:42 16°Y20	
morning max el 8742 May 13 13:54 1°809'07 24°57'09 morning rise 8743 Apr 10 03:59 10° Y 3'	
8742 Jun 04 08:21 0°II direct 8743 Apr 15 10:29 8°Y1'	
morning set 8742 Jun 18 13:49 23° I 32'39 morning max el 8743 Apr 25 23:11 14° Y 34	
max. Earth dist. 8742 Jun 22 04:33 0°505'18 1.36899 AU desc. node 8743 Apr 28 10:13 17° \mathbf{Y}1	
8742 Jun 22 03:24 0°S 8743 May 08 12:28 0°S	
8743 May 28 06:38 0° П	
superior conj 8742 Jun 28 17:06 12°©30'43 -0°50'14 morning set 8743 May 31 00:30 4° II 34	1'40
minimum elong 8742 Jun 28 20:13 12°S45'58 0°49'53 max. Earth dist. 8743 Jun 04 00:28 11° II 20	5'40 1.39124 AU
asc. node 8742 Jul 03 23:13 22°\$59'40	
evening rise 8742 Jul 07 02:02 29°S17'06 superior conj 8743 Jun 11 14:15 25°II0'	7'33 -1°21'52
8742 Jul 07 10:34 0° Ω minimum elong 8743 Jun 11 19:21 25° Ц 3	l'21 1°21'20
evening max el 8742 Jul 24 02:49 27° Q 07'51 19°31'54 8743 Jun 14 04:22 0° S	
8742 Jul 27 15:44 0° Mp evening rise 8743 Jun 20 22:19 13° 500)'46
retrograde 8742 Aug 02 18:53 1° M 54'34 asc. node 8743 Jun 20 20:13 12° 550)'36
evening set 8742 Aug 04 15:09 1° Mp44'54 8743 Jun 30 04:55 0° Ω	
desc. node 8742 Aug 07 12:23 0° 10 54'13 evening max el 8743 Jul 07 02:43 9° 10 12:23	
8742 Aug 09 10:58 30°R Ω retrograde 8743 Jul 15 06:24 13° Ω 1:	
inferior conj 8742 Aug 13 09:17 $27^{\circ}\Omega$ 39'50 $-1^{\circ}48'08$ evening set 8743 Jul 17 06:58 $13^{\circ}\Omega$ 0	
minimum elong 8742 Aug 13 04:23 $27^{\circ}\Omega 47'39$ 1°46'23 inferior conj 8743 Jul 25 06:17 8° $\Omega 37'$	
· · · · · · · · · · · · · · · · · · ·	3'12 0°02'12
	3'12 0°02'12
direct 8742 Aug 26 11:20 22° \$\mathcal{O}\$16'34 transit begin 8743 Jul 25 02:44 8° \$\mathcal{O}\$4	
morning max el 8742 Sep 09 11:10 $29^{\circ}\Omega$ 17'15 $24^{\circ}59'32$ transit end 8743 Jul 25 10:00 $8^{\circ}\Omega$ 3	
8742 Sep 10 04:49 0° mp desc. node 8743 Jul 25 09:29 8° \(\O 3 \)	
asc. node 8742 Sep 29 22:55 29° m 14'01 min. Earth dist. 8743 Jul 28 11:32 6° \(\Omega 10 \)	
8742 Sep 30 08:23 0°♀ morning rise 8743 Aug 02 02:18 3°Д30 morning set 8742 Oct 05 16:02 10°♀53'57 direct 8743 Aug 07 18:30 2°Д1	
·	1'39 26°30'07
	. 39 - 20 30 07
superior conj 8742 Oct 12 12:44 25° \(\Omega\)52'35 1°36'46 8743 Sep 06 13:22 0° \(\overline{\text{W}}\)	₹'04
minimum elong 8742 Oct 12 11:28 25° \(\Omega\)45'36 1°36'48 asc node 8743 Sep. 16 10:52 18° \(\omega\)48'	
minimum elong 8742 Oct 12 11:28 25° Ω 45'36 1°36'48 asc. node 8743 Sep 16 19:52 18° \mathbb{N} 45 asc. node 8743 Sep 16 19:52 18° \mathbb{N} 45 asc. node 8743 Sep 20 02:26 25° \mathbb{M} 55 asc. node 8743 Sep 20 02:26 25° \mathbb{M} 55 asc. node 8743 Sep 20 02:26 25° \mathbb{M} 55 asc. node 8743 Sep 20 02:26 25° \mathbb{M} 55 asc. node 8743 Sep 20 02:26 25° \mathbb{M} 55 asc. node 8743 Sep 20 02:26 25° \mathbb{M} 55 asc. node 8743 Sep 20 02:26 25° \mathbb{M} 55 asc. node 8743 Sep 20 02:26 25° \mathbb{M} 55 asc. node 8743 Sep 20 02:26 25° \mathbb{M} 55 asc. node 8743 Sep 20 02:26 25° \mathbb{M} 55 asc. node 8743 Sep 20 02:26 25° \mathbb{M} 55 asc. node 8743 Sep 20 02:26 25° \mathbb{M} 55 asc. node 8743 Sep 20 02:26 25° \mathbb{M} 55 asc. node 8743 Sep 20 02:26 25° \mathbb{M} 55 asc. node 8743 Sep 20 02:26 25° \mathbb{M} 55 asc. node 8743 Sep 20 02:26 25° \mathbb{M} 55 asc. node 8743 Sep 20 02:26 25° \mathbb{M} 55 asc. node 8743 Sep 20 02:26 25° \mathbb{M} 55 asc. node 8743 Sep 20 02:26 25° \mathbb{M} 55 asc. node 8743 Sep 20 02:26 25° \mathbb{M} 55 asc. node 8743 Sep 20 02:26 25° \mathbb{M}5 5 asc. node 8743 Sep 20 02:26 25° \mathbb{M}5 5 asc. node 8743 Sep 20 02:26 25° \mathbb{M}5 5 asc. node 8743 Sep 20 02:26 25° \mathbb{M}5 5 asc. node 8743 Sep 20 02:26 25° \mathbb{M}5 5 asc. node 8743 Sep 20 02:26 25° \mathbb{M}5 5 asc. node 8743 Sep 20 02:26 25° \mathbb{M}5 5 asc. node 8743 Sep 20 02:26 25° \mathbb{M}5 5 asc. node 8743 Sep 20 02:26 25° \mathbb{M}5 5 asc. node 8743 Sep 20 02:26 25° \mathbb{M}5 5 asc. node 8743 Sep 20 02:26 25° \mathbb{M}5 5 asc. node 8743 Sep 20 02:26 25° \mathbb{M}5 5 asc. node 8743 Sep 20 02:26 25° \mathbb{M}5 5 asc. node 8743 Sep 20 02:26 25° \mathbb{M}5 5 asc. node 8743 Sep 20 02:26 25° \mathbb{M}5 5 asc. node 8743 Sep 20 02:26 25° \mathbb{M}5 5 asc. node 8743 Sep 20 02:26 25° \mathbb{M}5 5 asc. node 8743 Sep 20 02:26 25° \mathbb{M}5 5 asc. node 8743 Sep 20 02:26 25° \mathbb{M}5 5 asc. node 8743 Sep 20 02:26 25° \mathbb{M}5 5 asc. node 8743 Sep	
max. Earth dist. 8742 Oct 14 03:18 29° ♣23′27 1.32392 AU morning set 8743 Sep 20 02:26 25° Mp 30	, 00
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max. Earth dist. 8742 Oct 14 03:18 29° ♣23'27 1.32392 AU morning set 8743 Sep 20 02:26 25° ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	
max. Earth dist. 8742 Oct 14 03:18 29° ♣23'27 1.32392 AU morning set 8743 Sep 20 02:26 25° № 3 8742 Oct 14 10:01 0° № 8742 Oct 19 17:36 11° № 11.16'12 8742 Oct 29 13:36 0° ₹ superior conj 8743 Sep 27 00:09 10° ♣4:	8'01 1°26'55
max. Earth dist. 8742 Oct 14 03:18 29° ♣23'27 1.32392 AU morning set 8743 Sep 20 02:26 25° № 30 evening rise 8742 Oct 14 10:01 0° № 8742 Oct 19 17:36 11° №	8'01 1°26'55
max. Earth dist. 8742 Oct 14 03:18 29° 至23'27 1.32392 AU morning set 8743 Sep 20 02:26 25° 取3 6 8742 Oct 14 10:01 0° 肌 8743 Sep 22 03:31 0° 至 evening rise 8742 Oct 19 17:36 11° 肌16'12 8742 Oct 29 13:36 0° ズ superior conj 8743 Sep 27 00:09 10° 至4 desc. node 8742 Nov 19 21:20 0°	8'01 1°26'55 2'05 1°26'45 5'39 1.31774 AU
max. Earth dist. 8742 Oct 14 03:18 29° 至23'27 1.32392 AU morning set 8743 Sep 20 02:26 25° 取3 6 8742 Oct 14 10:01 0° 肌 8743 Sep 22 03:31 0° 至 evening rise 8742 Oct 19 17:36 11° 肌16'12 8742 Oct 29 13:36 0° ズ superior conj 8743 Sep 27 00:09 10° 至4 desc. node 8742 Nov 19 21:20 0° 西 max. Earth dist. 8743 Sep 27 11:37 11° 至46	8'01 1°26'55 2'05 1°26'45 5'39 1.31774 AU
max. Earth dist. 8742 Oct 14 03:18 29° 至23'27 1.32392 AU morning set 8743 Sep 20 02:26 25° 順3 8742 Oct 14 10:01 0° 肌 8743 Sep 22 03:31 0° 至 evening rise 8742 Oct 19 17:36 11° 肌16'12 8742 Oct 29 13:36 0° ズ superior conj 8743 Sep 27 00:09 10° 至4 desc. node 8742 Nov 03 10:59 8° ズ11'01 minimum elong 8743 Sep 26 22:11 10° 至3 8742 Nov 19 21:20 0° 西 max. Earth dist. 8743 Sep 27 11:37 11° 至46 evening max el 8742 Nov 21 15:46 1° 云44'42 27°29'03 evening rise 8743 Oct 03 21:25 25° 至45	8'01 1°26'55 2'05 1°26'45 5'39 1.31774 AU 2'32
max. Earth dist. 8742 Oct 14 03:18 29° \(\overline{\Pmathbb{L}}\)27° \(\overline{\Pmathbb{L}}\)27° \(\overline{\Pmathbb{L}}\)27° \(\overline{\Pmathbb{L}}\)28742 Oct 14 10:01 0° \(\overline{\Pmathbb{L}}\)10° \(\overline{\Pmathbb{L}}\)10° \(\overline{\Pmathbb{L}}\)10° \(\overline{\Pmathbb{L}}\)10° \(\overline{\Pmathbb{L}}\)20° \(\overline{\Pmathbb{L}}\)20° \(\overline{\Pmathbb{L}}\)3336 0° \(\Pmathbb{L	8'01 1°26'55 2'05 1°26'45 5'39 1.31774 AU 2'32
max. Earth dist. 8742 Oct 14 03:18 29° 至23'27 1.32392 AU morning set 8743 Sep 20 02:26 25° 順3 8742 Oct 14 10:01 0° 肌 8743 Sep 22 03:31 0° 至 evening rise 8742 Oct 19 17:36 11° 肌16'12 8742 Oct 29 13:36 0° ズ superior conj 8743 Sep 27 00:09 10° 至4:00	8'01 1°26'55 2'05 1°26'45 5'39 1.31774 AU 2'32
max. Earth dist. 8742 Oct 14 03:18 29° 至23'27 1.32392 AU morning set 8743 Sep 20 02:26 25° 順36 8742 Oct 14 10:01 0° 肌 8743 Sep 22 03:31 0° 至 evening rise 8742 Oct 19 17:36 11° 肌16'12 8742 Oct 29 13:36 0° ズ superior conj 8743 Sep 27 00:09 10° 至4: desc. node 8742 Nov 03 10:59 8° ズ11'01 minimum elong 8743 Sep 26 22:11 10° 至3: max. Earth dist. 8743 Sep 27 11:37 11° 至4: evening max el 8742 Nov 21 15:46 1° 云44'42 27°29'03 evening rise 8743 Oct 03 21:25 25° 至4: retrograde 8742 Dec 05 10:20 9° 云02'22 8743 Oct 05 23:02 0° 肌1.59 のことをいいます。 8743 Oct 21 08:04 27° 肌1.59 のことをいいます。 8743 Oct 21 08:04 27° 肌1.59 のことをいいます。 8743 Oct 23 03:45 0° ズ1.59	8'01 1°26'55 2'05 1°26'45 5'39 1.31774 AU 2'32 9'35
max. Earth dist. 8742 Oct 14 03:18 29° 至23'27 1.32392 AU morning set 8743 Sep 20 02:26 25° 順3 8742 Oct 14 10:01 0° 肌 8743 Sep 22 03:31 0° 至 evening rise 8742 Oct 19 17:36 11° 肌16'12 8742 Oct 29 13:36 0° ズ superior conj 8743 Sep 27 00:09 10° 至4:00	8'01 1°26'55 2'05 1°26'45 5'39 1.31774 AU 2'32 9'35 7'54 27°06'25
max. Earth dist. 8742 Oct 14 03:18 29°至23'27 1.32392 AU morning set 8743 Sep 20 02:26 25°順36 evening rise 8742 Oct 14 10:01 0°ጤ 8743 Sep 22 03:31 0°至 8742 Oct 19 17:36 11°ጤ16'12 8742 Oct 29 13:36 0°ズ superior conj 8743 Sep 27 00:09 10°至4:00 minimum elong 8743 Sep 27 00:09 10°至4:00 minimum elong 8743 Sep 27 11:37 11°至46 evening max el 8742 Nov 19 21:20 0°云 max. Earth dist. 8743 Sep 27 11:37 11°至46 evening set 8742 Dec 05 10:20 9°云02'22 8743 Oct 03 21:25 25°至45 nin. Earth dist. 8742 Dec 16 04:52 3°云31'36 0.62834 AU 8743 Nov 03 21:53 14°ズ0' minimum elong 8742 Dec 19 00:16 0°云48'37 -2°35'09 evening max el 8743 Nov 17 19:21 21°ズ1' morning rise 8742 Dec 19 20:30 30°Rズ evening set 8742 Dec 26 00:31 25°ズ38'07 min. Earth dist. 8743 Nov 28 12:37 16°ズ2' morning rise 8743 Nov 28 12:37 16°ズ2' morning rise 8744 Dec 26 00:31 25°ズ38'07 min. Earth dist. 8743 Nov 28 12:37 16°ズ2' morning rise 8742 Dec 26 00:31 25°ズ38'07 min. Earth dist. 8743 Nov 28 12:37 16°ズ2' morning rise 8742 Dec 26 00:31 25°ズ38'07 min. Earth dist. 8743 Nov 28 12:37 16°ズ2' morning rise 8744 Dec 26 00:31 25°ズ38'07 min. Earth dist. 8743 Nov 28 12:37 16°ズ2' morning rise 8742 Dec 26 00:31 25°ズ38'07 min. Earth dist. 8743 Nov 28 12:37 16°ズ2'	2'01 1°26'55 2'05 1°26'45 5'39 1.31774 AU 2'32 0'35 7'54 27°06'25 8'42 0'48 7'29 0.60813 AU
max. Earth dist. 8742 Oct 14 03:18 29° \(\textit{\Pi}\)23'27 1.32392 AU morning set 8743 Sep 20 02:26 25° \(\textit{\Pi}\)3 devening rise 8742 Oct 14 10:01 0° \(\textit{\Pi}\)L 10° \(\textit{\Pi}\)L10° \(\textit{\Pi}\) 17:36 11° \(\textit{\Pi}\)L16° 12 superior conj 8743 Sep 27 00:09 10° \(\textit{\Pi}\)4 desc. node 8742 Nov 03 10:59 8° \(\textit{\Pi}\)11'01 minimum elong 8743 Sep 26 22:11 10° \(\textit{\Pi}\)3 devening max el 8742 Nov 19 21:20 0° \(\textit{\Pi}\) 8744'42 27° 29'03 evening rise 8743 Oct 03 21:25 25° \(\textit{\Pi}\)4 evening set 8742 Dec 05 10:20 9° \(\textit{\Pi}\)02'22 8744'42 27° 29'03 evening rise 8743 Oct 05 23:02 0° \(\textit{\Pi}\)L1 evening set 8742 Dec 12 12:05 6° \(\textit{\Pi}\)35'04 desc. node 8743 Oct 21 08:04 27° \(\textit{\Pi}\)1.19 minimum elong 8742 Dec 19 00:16 0° \(\textit{\Pi}\)48'37 -2° 35'09 evening max el 8743 Nov 03 21:53 14° \(\textit{\Pi}\)70 \(\textit{\Pi}\)1 minimum elong 8742 Dec 19 05:14 0° \(\textit{\Pi}\)36'35'3 2° 33'02 retrograde 8743 Nov 17 19:21 21° \(\textit{\Pi}\)1 10° \(\textit{\Pi}\)70 morning rise 8742 Dec 26 00:31 25° \(\textit{\Pi}\)38'07 minimum elong 8743 Dec 01 15:33 13° \(\textit{\Pi}\)20' 25° \(\textit{\Pi}\)20' 38'07 minimim Earth dist. 8743 Nov 28 12:37 16° \(\textit{\Pi}\)20' 27' 28'09 inferior conj 8743 Dec 01 15:33 13° \(\textit{\Pi}\)10° \(\textit{\Pi}\)	2'01 1°26'55 2'05 1°26'45 5'39 1.31774 AU 2'32 2'35 7'54 27°06'25 2'42 2'48 7'29 0.60813 AU 7'56 -3°45'52
max. Earth dist. 8742 Oct 14 03:18 29°至23'27 1.32392 AU morning set 8743 Sep 20 02:26 25°顺36 8742 Oct 14 10:01 0°凧 8742 Oct 19 17:36 11°胍16'12 8742 Oct 29 13:36 0°¾ superior conj 8743 Sep 27 00:09 10°至45 desc. node 8742 Nov 19 21:20 0°풉 max. Earth dist. 8743 Sep 26 22:11 10°至45 evening max el 8742 Nov 21 15:46 1°풉44'42 27°29'03 evening rise 8743 Oct 03 21:25 25°至45 evening set 8742 Dec 12 12:05 6°♂35'04 desc. node 8742 Dec 16 04:52 3°♂31'36 0.62834 AU inferior conj 8742 Dec 19 00:16 0°♂48'37 -2°35'09 evening max el 8742 Dec 19 00:16 0°♂36'35 2°33'02 retrograde 8742 Dec 19 00:16 0°♂36'35 2°33'02 retrograde 8743 Nov 24 18:56 19°¾00 morning rise 8742 Dec 26 00:31 25°¾38'07 min. Earth dist. 8743 Dec 01 15:33 13°¾00 direct 8742 Dec 28 07:58 25°¾13'21 minimum elong 8743 Dec 01 12:31 13°¾3'3'	201 1°26'55 205 1°26'45 203 1.31774 AU 2'32 2'35 2'35 2'42 2'48 2'29 0.60813 AU 2'56 -3°45'52 3'43'27
max. Earth dist. 8742 Oct 14 03:18 29°至23'27 1.32392 AU morning set 8743 Sep 20 02:26 25°取3' 8742 Oct 14 10:01 0°	2'01 1°26'55 2'05 1°26'45 3'39 1.31774 AU 2'32 2'35 2'54 27°06'25 2'48 2'29 0.60813 AU 2'56 -3°45'52 3'02 3°43'27
max. Earth dist. 8742 Oct 14 03:18 29°至23'27 1.32392 AU morning set 8743 Sep 20 02:26 25°顺36 8742 Oct 14 10:01 0°凧 8742 Oct 19 17:36 11°胍16'12 8742 Oct 29 13:36 0°¾ superior conj 8743 Sep 27 00:09 10°至45 desc. node 8742 Nov 19 21:20 0°풉 max. Earth dist. 8743 Sep 26 22:11 10°至45 evening max el 8742 Nov 21 15:46 1°풉44'42 27°29'03 evening rise 8743 Oct 03 21:25 25°至45 evening set 8742 Dec 12 12:05 6°♂35'04 desc. node 8742 Dec 16 04:52 3°♂31'36 0.62834 AU inferior conj 8742 Dec 19 00:16 0°♂48'37 -2°35'09 evening max el 8742 Dec 19 00:16 0°♂36'35 2°33'02 retrograde 8742 Dec 19 00:16 0°♂36'35 2°33'02 retrograde 8743 Nov 24 18:56 19°¾00 morning rise 8742 Dec 26 00:31 25°¾38'07 min. Earth dist. 8743 Dec 01 15:33 13°¾00 direct 8742 Dec 28 07:58 25°¾13'21 minimum elong 8743 Dec 01 12:31 13°¾3'3'	2'01 1°26'55 2'05 1°26'45 3'39 1.31774 AU 2'32 2'35 2'54 27°06'25 3'42 2'48 2'29 0.60813 AU 2'56 -3°45'52 3'02 3°43'27

morning max el	8745 Nov 13 22:01	7° M 51'54	19°23'10	morning max el	8746 Oct 27 08:03	19° ≙ 33'51	20°38'37
asc. node	8745 Nov 16 13:32	10°M43'16		asc. node	8746 Nov 03 10:30	28° £ 14'59	
	8745 Nov 28 07:19	0°⊀			8746 Nov 04 13:52	0° ™	
morning set	8745 Dec 01 01:21	5° ≯ 26′32		morning set	8746 Nov 15 08:32	20°M07'38	
	074575 00 00 50	210 720110	1001114		8746 Nov 20 02:43	0° ∡ 7	
superior conj	8745 Dec 09 02:52	21° 🗷 30'49	1°21'14		9746 Ni 22 10-49	59.72.4152	1024140
minimum elong	8745 Dec 09 05:47 8745 Dec 13 13:26	21°♂45'00 0°る	1°21'09	superior conj minimum elong	8746 Nov 22 19:48 8746 Nov 22 21:35	5° ₹ 34'53 5° ₹ 43'58	1°34'40 1°34'44
max. Earth dist.	8745 Dec 15 13:26 8745 Dec 15 14:31	0 3 3° 3 46'46	1.38114 AU	max. Earth dist.	8746 Nov 27 22:13	3 x · 43 38 15° x d4'28	1.36055 AU
evening rise	8745 Dec 19 08:02	10°る27'22	1.36114 AU	evening rise	8746 Dec 01 20:21	23°×10'00	1.30033 AU
desc. node	8745 Dec 19 08:02 8745 Dec 21 01:10	10 3 27 22		evening rise	8746 Dec 01 20:21 8746 Dec 05 15:18	23 メ 1000	
desc. node	8745 Dec 31 05:37	0°≈		desc. node	8746 Dec 07 22:13	3°る57'59	
	8746 Jan 22 22:24	0° ∀		desc. node	8746 Dec 24 22:48	0°≈	
evening max el	8746 Jan 23 20:11	0°) 54'41	25°01'26	evening max el	8747 Jan 06 09:17	14° ≈ 41'29	26°09'21
retrograde	8746 Feb 04 17:11	7°) €48'32		retrograde	8747 Jan 19 02:13	21° ≈ 54'18	
evening set	8746 Feb 10 09:44	5°) €26'36		evening set	8747 Jan 25 07:03	19° ≈ 23'03	
asc. node	8746 Feb 12 12:41	3° ∺ 20'02		min. Earth dist.	8747 Jan 29 12:07	14° ≈ 56'52	0.66834 AU
min. Earth dist.	8746 Feb 14 21:20	0°) 25′56	0.67767 AU	asc. node	8747 Jan 30 09:46	13° ≈ 50′12	
	8746 Feb 15 05:16	30° ₹ ≈		inferior conj	8747 Jan 31 02:28	12° ≈ 58′24	0°13'51
inferior conj	8746 Feb 16 00:11	28° ≈ 57'54	1°07'16	minimum elong	8747 Jan 31 02:06	12° ≈ 59'32	0°13'52
minimum elong	8746 Feb 15 22:39	29° ≈ 02'54	1°06'49	transit middle	8747 Jan 31 02:06	12° ≈ 59'32	0°13'52
morning rise	8746 Feb 21 11:52	23° ≈ 01′25		transit begin	8747 Jan 31 00:39	13°≈04'01	
direct	8746 Feb 25 02:15	21° ≈ 46′58		transit end	8747 Jan 31 03:33	12° ≈ 55′03	
morning max el	8746 Mar 04 07:45	25° ≈ 47'58	19°33'06	morning rise	8747 Feb 05 21:51	7° ≈ 11'10	
	8746 Mar 08 01:25	0° ∀		direct	8747 Feb 09 01:03	6° ≈ 15′22	
greatest brilliancy	8746 Mar 17 01:05	12° ∺ 26'43	-0.7m	morning max el	8747 Feb 15 17:17	9° ≈ 52'39	18°41'48
desc. node	8746 Mar 19 00:55	15°) 24′25			8747 Mar 02 07:09	0° ∀	
	8746 Mar 28 15:13	0°Υ		desc. node	8747 Mar 05 21:49	5°) (38′18	
morning set	8746 Mar 29 13:03	1° Υ 24'03		morning set	8747 Mar 09 02:06	10°) €37'27	
max. Earth dist.	8746 Apr 10 18:26	20° Y 27'47	1.44703 AU	P. d. F.	8747 Mar 21 10:57	0°Υ 4° Ω (4.4122	1 45 450 411
	9746 A 15 00:22	27° Ƴ 14'22	2011100	max. Earth dist.	8747 Mar 24 11:38	4° Ƴ 44'23	1.45452 AU
superior conj	8746 Apr 15 00:33	27° \bullet 14 22 27° \bullet 04'50		gumariar aani	8747 Mar 25 09:20	6° Y ′09'22	1954!10
minimum elong	8746 Apr 14 22:11 8746 Apr 16 17:45	0° 8	2 11 10	superior conj minimum elong	8747 Mar 25 09:20 8747 Mar 25 00:41	5° Υ 35'29	
evening rise	8746 Apr 28 22:08	20° 8 05'11		minimum clong	8747 Apr 09 10:48	0° 8	1 33 33
evening rise	8746 May 04 20:02	0° I		evening rise	8747 Apr 09 10:48	0° 8 35'50	
asc. node	8746 May 11 11:26	10° Ⅱ 36'31		greatest brilliancy	8747 Apr 17 07:06	12° 8 34'06	-0.9m
evening max el	8746 May 17 12:36	18° Ⅱ 20'07	18°14'57	asc. node	8747 Apr 28 08:31	28° 8 52'44	0.5111
retrograde	8746 May 23 21:47	21° I I43'38			8747 Apr 29 06:50	0°II	
evening set	8746 May 26 20:34	20° ∏ 57'04		evening max el	8747 May 01 00:11		18°42'54
inferior conj	8746 Jun 01 20:04	15° Ⅱ 35′29	3°04'28	retrograde	8747 May 07 14:55	5° Ⅱ 30′56	
minimum elong	8746 Jun 01 22:02	15° Ⅱ 29'56	3°03'58	evening set	8747 May 10 21:13	4° Ⅱ 30′08	
min. Earth dist.	8746 Jun 04 08:54	12° Ⅱ 45′10	0.63654 AU		8747 May 15 14:00	30° ₹ 8	
morning rise	8746 Jun 07 22:10	9°Ⅱ22'05		inferior conj	8747 May 16 12:19	28° 8 52'01	3°20'20
direct	8746 Jun 14 15:50	6° Ⅱ 43'42		minimum elong	8747 May 16 12:59	28° 8 49'58	3°20'06
desc. node	8746 Jun 15 00:41	6° Ⅱ 44'09		min. Earth dist.	8747 May 18 10:02	26° 8 31'38	0.65475 AU
morning max el	8746 Jun 28 12:50	14° Ⅱ 46'14	27°42'10	morning rise	8747 May 22 04:03	22° 8 33'57	
	8746 Jul 10 21:53	0°€		direct	8747 May 28 16:39	19° 8 47'34	
	8746 Jul 29 02:26	$0^{\circ}\Omega$		desc. node	8747 Jun 01 21:40	20° 8 45'45	
morning set	8746 Aug 02 07:46	8° Ω 10'35		morning max el	8747 Jun 10 23:12	27° 8 38'59	26°55'49
asc. node	8746 Aug 07 10:44	18° Ω 42'04	1 22702 AII		8747 Jun 13 04:28	0° ∏	
max. Earth dist.	8746 Aug 07 07:53	18° Ω 27'00	1.32702 AU		8747 Jul 04 14:56	0°ഇ 21° ഇ 28'34	
aumariar aani	9746 Aug 10 05:00	24° Ω 35'43	0°27'37	morning set max. Earth dist.	8747 Jul 16 16:51 8747 Jul 21 00:12	21 \$28 34 29°\$56'21	1.33977 AU
superior conj minimum elong	8746 Aug 10 05:00 8746 Aug 10 03:43	24 δι 33 43 24° Ω 28'48		max. Earth dist.	8747 Jul 21 00:12 8747 Jul 21 00:56	29 3 3621	1.339// AU
minimum ciong	8746 Aug 10 03:43	0° Mp	0 27 12		8/4/ Jul 21 00.30	0 06	
evening rise	8746 Aug 17 04:30	9° m)41'14		superior conj	8747 Jul 25 06:15	8° Ω 40'41	-0°00'37
	8746 Aug 27 14:36	0° ت		minimum elong	8747 Jul 25 06:18	8° Ω 40'54	
evening max el	8746 Sep 08 22:47	0 — 16° Ω 40'04	23°07'05	behind sun begin	8747 Jul 25 00:37	8° Ω 11'14	
desc. node	8746 Sep 10 23:30	18° ≏ 30'15		behind sun end	8747 Jul 25 11:58	9° Ω 10'38	
retrograde	8746 Sep 22 07:43	23° ≏ 20'54		asc. node	8747 Jul 25 07:42	8° Ω 48'15	
evening set	8746 Sep 26 06:17	22° ≏ 46'56		evening rise	8747 Aug 01 14:48	24° Ω 13'51	
min. Earth dist.	8746 Oct 03 07:50	19° ≙ 32'27	0.55352 AU		8747 Aug 04 09:45	0° m	
inferior conj	8746 Oct 04 22:14	18° ≏ 36'43	-5°31'11	evening max el	8747 Aug 21 15:01	26° m 59'25	21°30'59
minimum elong	8746 Oct 04 18:25	18° ≏ 42'17	5°30'50		8747 Aug 25 04:20	0∘ ⊽	
morning rise	8746 Oct 13 08:36	14° ≏ 46′29		desc. node	8747 Aug 28 20:38	2° ჲ 03'17	
direct	8746 Oct 16 08:40	14° £ 25′06		retrograde	8747 Sep 02 21:32	3° ჲ 04'35	

evening set	8747 Sep 05 11:39	2° ≏ 49'18		retrograde	8748 Aug 13 10:32	13° m 08'50	
	8747 Sep 12 14:41	30°R, Mp		desc. node	8748 Aug 14 17:43	13°Mp04'26	
inferior conj	8747 Sep 14 16:08	28° Mp 51'38		evening set	8748 Aug 15 08:53	12° Mp 59'12	
minimum elong	8747 Sep 14 06:48	29° Mp 04'43	4°34'15	inferior conj	8748 Aug 24 10:48	9° ™ 00'40	
min. Earth dist.	8747 Sep 14 16:17	28° m 51'25	0.54690 AU	minimum elong	8748 Aug 24 02:56	9° Mp 12′20	
morning rise	8747 Sep 23 02:51	25° Mp 01'02		min. Earth dist.	8748 Aug 26 02:16	8° Mp 02'10	0.54974 AU
direct	8747 Sep 26 18:06	24° My 32'20		morning rise	8748 Sep 01 19:50	4° ™ 49'43	
	8747 Oct 08 17:34	0∘ ত		direct	8748 Sep 06 05:00	4°№08'10	
morning max el	8747 Oct 09 05:22	0° ≏ 27'00	22°13'45	morning max el	8748 Sep 19 18:37	10° Mp 46'12	23°59'39
asc. node	8747 Oct 21 07:27	16° ≏ 34'08			8748 Oct 04 02:56	0∘ ত	
	8747 Oct 28 09:56	0°M		asc. node	8748 Oct 07 04:24	5° ≏ 29'27	
morning set	8747 Oct 30 18:53	4°M55'22		morning set	8748 Oct 14 06:34	19° ≏ 44'49	
					8748 Oct 19 00:16	0° M	
superior conj	8747 Nov 06 21:12	20°ML01'43	1°40'36				
minimum elong	8747 Nov 06 21:41	20°ML04'15	1°40'46	superior conj	8748 Oct 21 04:14	4°M43'06	1°39'55
max. Earth dist.	8747 Nov 10 12:41	27°MJ37'31	1.34305 AU	minimum elong	8748 Oct 21 03:32	4°M39'14	1°40'01
	8747 Nov 11 16:42	0° ∡ ¹		max. Earth dist.	8748 Oct 23 11:42	9°M42'08	1.32967 AU
evening rise	8747 Nov 15 00:07	6° ₹ 33'10		evening rise	8748 Oct 28 15:39	20°M27'23	
desc. node	8747 Nov 24 19:17	24° ∡ 16′25		S	8748 Nov 02 13:21	0° ∡ ¹	
	8747 Nov 28 07:10	0°ਰ		desc. node	8748 Nov 10 16:21	14° ⊀ 14'50	
evening max el	8747 Dec 19 22:38	28° る 20'43	27°00'18		8748 Nov 21 07:23	0°₹	
***************************************	8747 Dec 21 17:55	0° ≈		evening max el	8748 Dec 01 11:00	11° る 40'35	27°27'03
retrograde	8748 Jan 02 05:33	5°≈40'56		retrograde	8748 Dec 15 02:13	18° る 59'50	27 27 03
evening set	8748 Jan 08 21:15	3°≈05'28		evening set	8748 Dec 22 01:52	16° る 27'06	
evening set	8748 Jan 12 03:37	30°Rる		min. Earth dist.	8748 Dec 25 20:32		0.63907 AU
min. Earth dist.	8748 Jan 12 20:36	29°る13'22	0.65536 AU	inferior conj	8748 Dec 28 09:53	19° ろ 29'00	
inferior conj	8748 Jan 14 22:33	26°පි50'57		minimum elong	8748 Dec 28 13:28	10° ろ 19'42	
minimum elong	8748 Jan 14 22:35	26° る 47'02		asc. node	8749 Jan 03 03:52	5°る35'24	1 3247
asc. node	8748 Jan 17 06:49	20 34702 24° る 16'57	0 4021	morning rise	8749 Jan 04 02:50	5° る 08'19	
		24 31637 21° 3 15'27		•		3 000 19 4° る 38'39	
morning rise	8748 Jan 21 03:48	20° る 34'36		direct	8749 Jan 06 13:28	8° る 01'07	17940146
direct	8748 Jan 23 21:41		10007112	morning max el	8749 Jan 13 01:19		1/-49/40
morning max el	8748 Jan 30 08:04	23° る 59'33	18°07'12	. ,	8749 Jan 27 18:30	0°≈	
	8748 Feb 04 06:43	0° ≈		morning set	8749 Jan 29 17:38	3°≈21'11	
morning set	8748 Feb 17 19:58	21°≈18'42		desc. node	8749 Feb 06 15:40	16° ≈ 43'46	
desc. node	8748 Feb 20 18:44	26°≈06'24			0540 5 1 11 14 05	240 51152	0005105
	8748 Feb 23 04:30	0° ℋ		superior conj	8749 Feb 11 14:25	24°≈51'52	
				minimum elong	8749 Feb 11 10:28	24°≈35'49	0°34'54
superior conj	8748 Mar 03 15:54	15°) €06'01			8749 Feb 14 18:48	0°) (
minimum elong	8748 Mar 03 07:09	14°) € 31′28		max. Earth dist.	8749 Feb 17 02:34		1.44740 AU
max. Earth dist.	8748 Mar 06 07:17		1.45463 AU	evening rise	8749 Feb 27 07:40	19°) € 37'32	
	8748 Mar 13 04:35	0° Υ			8749 Mar 06 03:24	0° Υ	
evening rise	8748 Mar 19 19:41	10° Y 17'31		evening max el	8749 Mar 27 10:12	29° Y 10′02	20°27'25
greatest brilliancy	8748 Apr 01 11:25	29° Ƴ 43'46	-0.7m		8749 Mar 28 06:31	0°8	
	8748 Apr 01 15:45	0° 8		asc. node	8749 Apr 01 02:42	2° 8 54'35	
evening max el	8748 Apr 13 07:51	15° 8 30'33	19°27'42	retrograde	8749 Apr 04 10:31	3° 8 50'18	
asc. node	8748 Apr 14 05:36	16° 8 23'19		evening set	8749 Apr 08 10:01	2° 8 19'13	
retrograde	8748 Apr 20 11:59	19° 8 35'02			8749 Apr 10 19:14	30° ₹Ƴ	
evening set	8748 Apr 24 02:25	18° 8 19'17		inferior conj	8749 Apr 13 17:33	26° Ƴ 12'38	3°08'58
inferior conj	8748 Apr 29 12:24	12° 8 26'04	3°20'51	minimum elong	8749 Apr 13 16:03	26° Ƴ 17'47	3°08'39
minimum elong	8748 Apr 29 11:50	12° 8 27'54	3°20'40	min. Earth dist.	8749 Apr 14 09:58	25° Y 16′27	0.67855 AU
min. Earth dist.	8748 Apr 30 18:59	10° 8 45'39	0.66889 AU	morning rise	8749 Apr 18 21:53	19° Ƴ 56′22	
morning rise	8748 May 04 20:54	6° 8 07'40		direct	8749 Apr 24 12:12	17° Ƴ 26'54	
direct	8748 May 10 23:48	3° 8 25'05		desc. node	8749 May 05 15:35	24° Y 04'00	
desc. node	8748 May 18 18:37	6° 8 42'23		morning max el	8749 May 05 18:20	24° Ƴ 10′56	24°19'44
morning max el	8748 May 23 09:09	10° 8 49'58	25°45'03		8749 May 10 23:09	9° 8	
	8748 Jun 07 14:46	$\Pi^{\circ}0$			8749 Jun 01 01:00	$\Pi^{\circ}0$	
	8748 Jun 26 05:54	0 \circ \odot		morning set	8749 Jun 10 11:52	15° Ⅱ 43'11	
morning set	8748 Jun 28 11:52	4°903'50		max. Earth dist.	8749 Jun 14 03:42	22° Ⅱ 11'51	1.37834 AU
max. Earth dist.	8748 Jul 02 05:47	11° © 03'45	1.35725 AU		8749 Jun 18 09:33	0ಂತಾ	
superior conj	8748 Jul 07 23:17	22° © 18'05	-0°31'41	superior conj	8749 Jun 21 04:47	5° © 19'08	-1°03'52
minimum elong	8748 Jul 08 01:10	22°527'37	0°31'30	minimum elong	8749 Jun 21 08:47	5°538'24	1°03'25
asc. node	8748 Jul 11 04:41	28°951'41		asc. node	8749 Jun 28 01:41	18° 5 48'07	
	8748 Jul 11 17:59	$0^{\circ}\Omega$		evening rise	8749 Jun 29 22:44	22° © 31'39	
evening rise	8748 Jul 15 21:43	8° Ω 33'03		-	8749 Jul 03 18:34	$0^{\circ}\Omega$	
-	8748 Jul 27 12:55	0° m)		evening max el	8749 Jul 16 12:30	19° Ω 31'41	19°08'24
evening max el	8748 Aug 02 19:13		20°09'38	retrograde	8749 Jul 25 11:55	23° Ω 58′25	
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8751 Jun 01 19:46

asc. node

28° II 03'03

8750 Jun 27 23:08

 $0^{\circ}\Omega$

Solution 1922 1975 197		0751 1 02 22 24	006		. 1	0752 1 02 01 46	10610107	
crompace \$751 Jun 20 (8) 179 (1970) 187 (1970) 2 (8) 179 (2070) 2 (8) 179 (2070) 2 (8) 179 (2070) 2 (8) 179 (2070) 2 (8) 179 (2070) 2 (8) 179 (2070) 2 (8) 179 (2070) 2 (8) <td></td> <td>8751 Jun 02 22:24</td> <td>0°99</td> <td>10007150</td> <td>retrograde</td> <td>8752 Jun 02 01:46</td> <td>1°5518'05</td> <td></td>		8751 Jun 02 22:24	0°99	10007150	retrograde	8752 Jun 02 01:46	1°5518'05	
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max. Earth dist 8751 Sep 03 12-36 16*04*754 131681 AU superior conj 8752 Aug 18 22-46 3**Pla05 0**Pla05 superior conj 8751 Sep 04 11-31 19*09/03 1*04101 superior conj 8752 Aug 18 22-46 3**Pla05 0**411 evening rise 8751 Sep 04 10-32 3**B4375 cvening rise 8752 Aug 18 07-56 0**D 0**41 desc. node 8751 Sep 10 10-32 3**B4375 cvening rise 8752 Sep 19 06-59 28**M0908 2**04912 desc. node 8751 Oct 02 07-41 10**Ill.2121 2**3700 8752 Sep 19 06-59 28**M0908 2**04912 crorograde 8751 Oct 02 18-31 2**Ill.1121 2**3700 8752 Sep 19 06-59 28**M0908 2**04912 min. Earth dist. 8751 Oct 02 18-33 2**Ill.1121 2**3700 8752 Sep 19 06-59 28**M0908 2**04912 minimum clong 8751 Nov 12 18-33 3**Ill.1121 5**9924 inferior conj 8752 Oct 10 0755 2**3141 1**1111 1**111 1**111 1**111 1**111 1**111 1**11 1**11 <td>morning set</td> <td>8751 Aug 28 08:54</td> <td>3°m/32'50</td> <td></td> <td>asc. node</td> <td>8752 Aug 14 16:13</td> <td></td> <td></td>	morning set	8751 Aug 28 08:54	3°m/32'50		asc. node	8752 Aug 14 16:13		
superior conj 8751 Sep 04 13.34 19°80643 1°0401 superior conj 8752 Aug 18 22.36 3°\$8,0075 0°4209	asc. node	8751 Aug 28 19:16	4° Mp 26′59		max. Earth dist.	8752 Aug 16 18:25	28° Ω 56'45	1.32196 AU
minimum elong 8751 Sep 04 11-31 18°B,9426 1°03/35 minimum elong 8752 Aug 18 20.99 3°B,9551 0°41/41 evening rise 8751 Sep 10 10 73.2 354347 recining rise 8752 Aug 10 70.50 18°B,3552 desc. node 8751 Oct 0741 0°RL evening max el 8751 Oct 0.741 10°RL evening max el 8751 Oct 0.741 10°RL evening max el 8751 Oct 0.741 10°RL 23°3700 8752 Sep 21 0.818 0°RL 24°04098 24°0429 evening set 8751 Oct 2 8 18:33 28°RL/722 retrograde 8752 Oct 0.77 19.15 4°RL0921 25°0105 10°RL 25°0105 38°80 Oct 0.77 19.15 4°RL0921 10°RL093 25°0105 25°0105 25°0105 <td>max. Earth dist.</td> <td>8751 Sep 03 12:36</td> <td>16° m 47'54</td> <td>1.31681 AU</td> <td></td> <td>8752 Aug 17 06:09</td> <td>0°m</td> <td></td>	max. Earth dist.	8751 Sep 03 12:36	16° m 47'54	1.31681 AU		8752 Aug 17 06:09	0° m	
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retrograde 8752 Feb 14 20:51 16° ★5706 evening max el 8753 Jan 16 02:40 24°≈07'54 25°32'01 evening set 8752 Feb 20 06:03 14° ★42'26 retrograde 8753 Jan 23 19:43 0° ★ asc. node 8752 Feb 20 18:04 14° ★16'143 retrograde 8753 Jan 28 08:40 1° ★10'29 1° ★10'29 min. Earth dist. 8752 Feb 24 22:00 9° ★21'17 0.68131 AU 8753 Feb 01 12:02 30° ₹≈ inferior conj 8752 Feb 25 18:09 8° ★13'48 1°34'24 evening set 8753 Feb 01 12:02 30° ₹≈ morning rise 8752 Feb 25 16:13 8° ★20'19 1°33'49 asc. node 8753 Feb 06 15:08 25° ≈13'33 morning rise 8752 Mar 02 02:26 2° ★12'33 min. Earth dist. 8753 Feb 07 15:20 23° ≈58'20 0.67418 AU direct 8752 Mar 13 16:28 5° ₩60'16 20° 09'33 minimum elong 8753 Feb 08 21:53 22° ≈16'54 0°45'38 morning set 8752 Apr 10 04:53 0° Ψ direct 8753 Feb 12 21:56 19° ∞6'64 19° ∞9'18 max. Earth	evening may el			24°17'39	dese. Hode			
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asc. node 8752 Feb 20 18:04 14° ± 15'43 retrograde 8753 Jan 28 08:40 1° ± 10'29 min. Earth dist. 8752 Feb 24 22:00 9° ± 21'37 0.68131 AU 8753 Feb 01 12:02 30° ₹≈ inferior conj 8752 Feb 25 18:09 8° ± 13'48 1° 34'24 evening set 8753 Feb 03 06:31 28° ≈44'19 minimum elong 8752 Feb 25 16:13 8° ± 20'19 1° 33'49 asc. node 8753 Feb 06 15:08 25° ≈13'33 morning rise 8752 Mar 02 02:26 2° ± 12'33 min. Earth dist. 8753 Feb 07 15:20 23° ≈58'20 0.67418 AU direct 8752 Mar 05 23:56 0° ± 45'56 inferior conj 8753 Feb 08 23:00 22° ≈16'54 0° 45'38 morning max el 8752 Mar 13 16:28 5° ± 06'16 20° 09'33 minimum elong 8753 Feb 08 21:53 22° ≈20'27 0° 45'20 desc. node 8752 Mar 26 06:22 21° ± 15'06 morning minimum elong 8753 Feb 14 13:40 16° ≈24'01 16° ≈24'01 morning set 8752 Apr 10 07:57 13° ♥ 5'30'6 morning max el 8753 Feb 24 21:56 19° ≈06'46 19°	Č				evening max er			23 32 01
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		•		10005104		*		
8752 May 29 05:21 0°0 8753 Apr 13 05:45 0°8	evening max el			18~0/'04	minimum elong	-		2~06'16
		8/52 May 29 03:21	0.50			8/33 Apr 13 05:45	U~ O	

evening rise	8753 Apr 20 14:37	12° 8 00'46		desc. node	8754 Feb 28 00:10	1° ¥ 39'10	
	8753 May 01 16:10	$\Pi^{\circ 0}$					
asc. node	8753 May 05 13:54	5° Ⅱ 47'36		superior conj	8754 Mar 16 05:23	27°) 14′34	
evening max el	8753 May 10 04:56	11° Ⅱ 25'25	18°24'37	minimum elong	8754 Mar 15 19:47	26°) 37′02	
retrograde	8753 May 16 15:16	14° ∏ 53′24		max. Earth dist.	8754 Mar 16 21:12		1.45551 AU
evening set	8753 May 19 17:18	14° Ⅱ 00'42			8754 Mar 17 23:40	0° Υ	
inferior conj	8753 May 25 12:46	8° Ⅲ 31'42		evening rise	8754 Apr 01 02:25	22° Y ′08'46	
minimum elong	8753 May 25 14:12	8° Ⅱ 27'30	3°12'55		8754 Apr 06 01:58	0°8	
min. Earth dist.	8753 May 27 19:11	5° Ⅲ 52'49	0.64483 AU	greatest brilliancy	8754 Apr 10 23:18	7° 8 39'01	-0.8m
morning rise	8753 May 31 10:07	2° Ⅱ 15'48		asc. node	8754 Apr 22 10:59	23° 8 45'45	
	8753 Jun 04 07:49	30° ₹ 8		evening max el	8754 Apr 23 15:01	25° 8 00'22	18°59'53
direct	8753 Jun 07 02:19	29° 8 32'49		retrograde	8754 Apr 30 10:34	28° 8 48'40	
desc. node	8753 Jun 09 03:02	29° 8 46'17		evening set	8754 May 03 20:13	27° 8 41'31	
	8753 Jun 10 00:09	$\Pi^{\circ 0}$		inferior conj	8754 May 09 08:45	_	3°22'13
morning max el	8753 Jun 20 17:44	7° Ⅱ 31'19	27°25'57	minimum elong	8754 May 09 08:53	21° 8 56'05	3°22'02
	8753 Jul 08 01:31	0°€		min. Earth dist.	8754 May 10 23:51	19° 8 52'27	0.66130 AU
	8753 Jul 25 08:51	$0^{\circ}\Omega$		morning rise	8754 May 14 21:02	15° 8 37'43	
morning set	8753 Jul 25 23:58	1° Ω 13'49		direct	8754 May 21 05:48	12° 8 51'56	
max. Earth dist.	8753 Jul 30 16:49	10° Ω 43′02	1.33194 AU	desc. node	8754 May 27 00:01	14° 8 40'32	
asc. node	8753 Aug 01 13:11	14° Ω 34'44		morning max el	8754 Jun 03 04:23	20° 8 34'03	26°28'09
					8754 Jun 11 07:08	Π $^{\circ}0$	
superior conj	8753 Aug 03 03:30	17° Ω 57'46	0°16'04		8754 Jul 01 04:53	0 \circ \odot	
minimum elong	8753 Aug 03 02:42	17° Ω 53'33	0°15'44	morning set	8754 Jul 09 03:39	14° © 15'23	
behind sun begin	8753 Aug 03 01:41	17° Ω 48′05		max. Earth dist.	8754 Jul 13 04:50	22° © 02'59	1.34669 AU
behind sun end	8753 Aug 03 03:44	17° Ω 59'01			8754 Jul 17 03:49	$\mathfrak{O}^{\circ}\mathfrak{O}$	
	8753 Aug 08 18:01	0° m					
evening rise	8753 Aug 10 06:18	3° Mp 13'23		superior conj	8754 Jul 18 01:37	1° Ω 51'55	-0°13'33
	8753 Aug 24 21:37	0∘ ⊽		minimum elong	8754 Jul 18 02:24	1° Ω 55'54	0°13'34
evening max el	8753 Aug 31 19:05	8° ഫ 20'18	22°24'51	behind sun begin	8754 Jul 17 23:13	1° Ω 39'31	
desc. node	8753 Sep 05 01:55	11° ≏ 52'38		behind sun end	8754 Jul 18 05:34	2° Ω 12'17	
retrograde	8753 Sep 13 18:19	14° £ 48'06		asc. node	8754 Jul 19 10:09	4°Ω40'14	
evening set	8753 Sep 17 02:00	14° £ 23'48		evening rise	8754 Jul 25 15:29	17° Ω 41'24	
min. Earth dist.	8753 Sep 25 01:37	10° £ 52'45	0.54964 AU	8	8754 Jul 31 19:23	0° m/	
inferior conj	8753 Sep 26 00:41	10° ≏ 20'12	-5°14'51	evening max el	8754 Aug 13 15:47	18° m 51'36	20°54'02
minimum elong	8753 Sep 25 17:49	10° £ 29'54		desc. node	8754 Aug 22 23:02	24° m 23'47	
morning rise	8753 Oct 04 11:25	6° £ 32'36	0 13 1,	retrograde	8754 Aug 25 06:49	24° m/37'18	
direct	8753 Oct 07 17:52	6° ₽ 08'31		evening set	8754 Aug 27 11:50	24° m 25'39	
morning max el	8753 Oct 19 08:49	11° £ 35'53	21°17'13	inferior conj	8754 Sep 05 17:09	20° m 28'58	-3°57'42
asc. node	8753 Oct 28 12:55	23° £ 16'53	21 1/15	minimum elong	8754 Sep 05 07:36	20° m 42'32	
asc. node	8753 Nov 01 10:53	0°M		min. Earth dist.	8754 Sep 06 10:31		0.54688 AU
morning set	8753 Nov 08 09:50	13°M44'35		morning rise	8754 Sep 14 03:33	16° Mp 32'12	0.54000710
morning set	0733 NOV 00 07.30	13 1104433		direct	8754 Sep 18 01:48	15° M 59'09	
superior conj	8753 Nov 15 16:39	29°M00'49	1°38'03	morning max el	8754 Oct 01 02:07	22° My 12'54	22050125
minimum elong	8753 Nov 15 10:59 8753 Nov 15 17:53	29°M00'49	1°38'11	morning max er	8754 Oct 01 02:07 8754 Oct 07 20:49	0° ʊ	22 36 23
minimum ciong	8753 Nov 16 04:06	29 IIG07 12 0° √ 7	1 30 11	asc. node	8754 Oct 15 09:53	0 = 11° £ 52'53	
may Earth dist	8753 Nov 20 04:20	8° ∡ ¹08'00	1.35259 AU	morning set	8754 Oct 23 20:59	28° £ 34'00	
max. Earth dist.			1.33239 AU	morning set			
evening rise desc. node	8753 Nov 24 07:13	16° ₹ 06'56			8754 Oct 24 13:11	0°M	
desc. node	8753 Dec 02 00:37	29° ₹ 57'50			9754 0-4 20 20-40	120 m 25116	1941105
	8753 Dec 02 01:08	5°0		superior conj	8754 Oct 30 20:49	13°M35'16	
	8753 Dec 22 12:18	0°≈ 7°≈ • 52100	26022124	minimum elong	8754 Oct 30 20:46	13°M34'59	1°41'14
evening max el	8753 Dec 29 15:52	7°≈52'09	26°33'34	max. Earth dist.	8754 Nov 02 22:20	20°M04'29	1.33674 AU
retrograde	8754 Jan 11 15:09	15°≈08'59		evening rise	8754 Nov 07 16:25	29°M44'28	
evening set	8754 Jan 18 01:03	12°≈35′01			8754 Nov 07 19:34	0° ∡	
min. Earth dist.	8754 Jan 22 03:32	8° ≈ 23'46	0.66326 AU	desc. node	8754 Nov 18 21:42	20° ∡ ′08′36	
inferior conj	8754 Jan 23 22:53	6°≈14'12			8754 Nov 25 03:05	0° ろ	
minimum elong	8754 Jan 23 23:11	6° ≈ 13′18	0°10'48	evening max el	8754 Dec 12 04:45	21° る 23'38	27°14'58
transit middle	8754 Jan 23 23:11	6°≈13'18	0°10'48	retrograde	8754 Dec 25 15:51	28° る 44'57	
transit begin	8754 Jan 23 21:02	6° ≈ 19'46		evening set	8755 Jan 01 11:31	26° る 09'18	
transit end	8754 Jan 24 01:20	6° ≈ 06'51		min. Earth dist.	8755 Jan 05 08:32	22° る 31'33	0.64880 AU
asc. node	8754 Jan 24 12:12	5° ≈ 34'30		inferior conj	8755 Jan 07 15:33	20° る 00'54	
morning rise	8754 Jan 29 22:14	0° ≈ 31'52		minimum elong	8755 Jan 07 17:49	19° る 54'41	1°13'53
	8754 Jan 31 03:18	30°₹ ⋜		asc. node	8755 Jan 11 09:16	16° る 16'44	
direct	8754 Feb 01 21:18	29° る 42'50		morning rise	8755 Jan 14 01:37	14° る 31'38	
	8754 Feb 03 15:55	0° ≈		direct	8755 Jan 16 16:05	13° る 56'08	
morning max el	8754 Feb 08 10:02	3° ≈ 13'14	18°25'08	morning max el	8755 Jan 23 02:17	17° る 18'53	17°57'42
	8754 Feb 26 23:15	0°) €			8755 Feb 01 09:49	0° ≈	
morning set	8754 Feb 28 10:26	2°) €20'03		morning set	8755 Feb 09 16:38	13° ≈ 37′06	

desc. node	8755 Feb 14 21:06	22° ≈ 11′24		direct	8755 Dec 31 04:45	27° ₰ 751′08	
	8755 Feb 19 16:14	0° ℋ			8756 Jan 05 09:53	0°る	
superior conj	8755 Feb 23 16:53	6°) €27'18	1901112	morning max el morning set	8756 Jan 06 19:42 8756 Jan 23 00:18	1°る15'45 26°る07'47	17°47'40
minimum elong	8755 Feb 23 09:54	5° ¥ 59'28	1°00'11	morning set	8756 Jan 25 05:38	20 00747 0°≈	
max. Earth dist.	8755 Feb 27 16:36	12°) (45'56	1.45237 AU	desc. node	8756 Feb 01 18:03	12°≈51'22	
	8755 Mar 10 18:34	$0^{\circ}\mathbf{\Upsilon}$					
evening rise	8755 Mar 11 19:34	1° Y 36'16		superior conj	8756 Feb 04 01:36	16° ≈ 42'51	-0°16'58
greatest brilliancy	8755 Mar 26 03:17	23° Y 18'33	-0.6m	minimum elong	8756 Feb 03 23:50	16° ≈ 35'34	0°16'32
	8755 Mar 30 19:38	0°8		max. Earth dist.	8756 Feb 10 10:11	27° ≈ 03'44	1.44222 AU
evening max el	8755 Apr 06 20:26	8° 8 38'38	19°51'25		8756 Feb 12 06:25	0° ∀	
asc. node	8755 Apr 09 08:04	10° 8 52'44		evening rise	8756 Feb 19 06:52	10°) 57′52	
retrograde	8755 Apr 14 08:37	12° 8 57'51 11° 8 35'45			8756 Mar 02 22:33	0° Υ 22° Υ 18'49	20°56'44
evening set inferior conj	8755 Apr 18 02:41 8755 Apr 23 11:20	5° 8 36'31	3°17'11	evening max el asc. node	8756 Mar 19 20:27 8756 Mar 26 05:11	26° Υ 54'28	20 36 44
minimum elong	8755 Apr 23 10:20	5° 8 39'53	3°16'59	retrograde	8756 Mar 28 07:09	20 γ 34 28 27° γ 16'26	
min. Earth dist.	8755 Apr 24 11:47	4° 8 14'30		evening set	8756 Apr 01 10:45	25° Y 39'03	
	8755 Apr 28 00:22	30° R Υ		inferior conj	8756 Apr 06 17:58		3°00'40
morning rise	8755 Apr 28 17:40	29° Υ 18'30		minimum elong	8756 Apr 06 16:10	19° Y 33'55	3°00'18
direct	8755 May 04 15:22	26° Y 40'29		min. Earth dist.	8756 Apr 07 04:50	18° Ƴ 50'09	0.68123 AU
	8755 May 12 07:58	9° 8		morning rise	8756 Apr 11 21:22	13° Y 12'42	
desc. node	8755 May 13 20:59	1° 8 16'24		direct	8756 Apr 17 05:59	10° Ƴ 50′28	
morning max el	8755 May 16 14:03	3° 8 50'24	25°09'53	morning max el	8756 Apr 27 23:12	17° Ƴ 14'15	23°41'30
	8755 Jun 05 13:55	$\Pi^{\circ 0}$		desc. node	8756 Apr 29 17:57	19° Y 06'45	
morning set	8755 Jun 21 15:18	26° Ⅱ 29'01			8756 May 08 13:42	0° 8	
P. d. F.	8755 Jun 23 13:57	0.20 0.20	1 26504 433		8756 May 28 14:58	0°Ⅱ 7°Ⅲ	
max. Earth dist.	8755 Jun 25 06:21	3°506'16	1.36584 AU	morning set	8756 Jun 02 05:38 8756 Jun 06 02:32	7° Ⅱ 41'13 14° Ⅱ 23'08	1.38791 AU
superior conj	8755 Jul 01 14:13	15°©14'56	-0°45'20	max. Earth dist.	8/30 Juli 00 02.32	14 Щ23 08	1.38/91 AU
minimum elong	8755 Jul 01 17:00	15° © 28'42		superior conj	8756 Jun 13 13:43	27° Ⅱ 58'36	-1°17'12
asc. node	8755 Jul 06 07:08	24°9541'02	0 13 02	minimum elong	8756 Jun 13 18:33	28° I I21'22	
	8755 Jul 08 21:59	0°N			8756 Jun 14 15:27	0ಂಣ 	
evening rise	8755 Jul 09 20:15	1° Ω 52'42		asc. node	8756 Jun 22 04:10	14° © 33'34	
	8755 Jul 26 23:57	0° m		evening rise	8756 Jun 22 17:55	15°5540'34	
evening max el	8755 Jul 27 01:47	0° Mp 04'33	19°41'03		8756 Jun 30 09:33	$0^{\circ}\Omega$	
retrograde	8755 Aug 05 23:48	4° Mp 58′28		evening max el	8756 Jul 09 00:08	12° Ω 02′22	18°48'44
evening set	8755 Aug 07 20:10	4° ™ 49'00		retrograde	8756 Jul 17 08:28	16° Ω 10'51	
desc. node	8755 Aug 09 20:09	4° Mp 18′52		evening set	8756 Jul 19 08:09	15° Ω 57'40	
inferior conj	8755 Aug 16 16:41	0° Mp 46'08		desc. node	8756 Jul 26 17:14	12° Ω 08'43	0012106
minimum elong	8755 Aug 16 10:57	0° Mp 55′05	2°03'50	inferior conj	8756 Jul 27 10:26	11° Ω 37'45 11° Ω 38'43	-0°13'06 0°13'04
min. Earth dist.	8755 Aug 17 22:08 8755 Aug 18 22:12	30°R Ω 29° Ω 22'45	0.55373 AU	minimum elong transit middle	8756 Jul 27 09:54 8756 Jul 27 09:54	11° Ω 38'43	0°13'04
morning rise	8755 Aug 16 22:12 8755 Aug 24 23:32	$26^{\circ}\Omega 20'50$	0.55575 AC	transit begin	8756 Jul 27 07:44	11° Ω 42'38	0 13 04
direct	8755 Aug 29 16:52	25° Ω 31'18		transit end	8756 Jul 27 12:04	11° Ω 34'48	
	8755 Sep 09 18:31	0° m)		min. Earth dist.	8756 Jul 30 13:48		0.56892 AU
morning max el	8755 Sep 12 14:25	2° m 26'39	24°44'18	morning rise	8756 Aug 04 08:17	6° Ω 35'39	
	8755 Oct 01 18:11	0∘ ⊽		direct	8756 Aug 09 21:44	5° Ω 20'54	
asc. node	8755 Oct 02 06:51	1° ≏ 00′26		morning max el	8756 Aug 24 04:40	12° Ω 46'51	26°18'13
morning set	8755 Oct 08 08:43	13° ≏ 22'26			8756 Sep 06 16:45	0° т р	
	05550 . 15 0501	200 2 20145	1025140	asc. node	8756 Sep 18 03:49	20° m 31'21	
superior conj	8755 Oct 15 05:34	28° £ 20'45	1°37'48	morning set	8756 Sep 21 19:27	28° Mp 05'25	
minimum elong	8755 Oct 15 04:26 8755 Oct 15 23:44	28° ≙ 14'32 0° M	1°3/49		8756 Sep 22 16:52	0∘ ⊽	
max. Earth dist.	8755 Oct 17 00:20	2°M13'52	1.32528 AU	superior conj	8756 Sep 28 16:48	13° ≏ 10'40	1°28'47
evening rise	8755 Oct 22 11:58	13°M49'10	1.52526 AC	minimum elong	8756 Sep 28 14:55	13° ⊆ 1040	1°28'37
	8755 Oct 30 22:24	0° ∡ 7		max. Earth dist.	8756 Sep 29 08:10	14° ⊆ 35'47	1.31840 AU
desc. node	8755 Nov 05 18:47	9° ∡ 755'52		evening rise	8756 Oct 05 14:56	28° ≙ 13'02	
	8755 Nov 20 07:59	0°ප			8756 Oct 06 11:26	0° M	
evening max el	8755 Nov 24 15:58	4° ප 30'49	27°29'34	desc. node	8756 Oct 22 15:53	29°M10'13	
retrograde	8755 Dec 08 09:53	11° ප් 49'02			8756 Oct 23 05:04	0° ∡	
evening set	8755 Dec 15 11:12	9° ට 20'06		evening max el	8756 Nov 05 23:01	17° ∡ 00'43	27°11'58
min. Earth dist.	8755 Dec 19 04:25		0.63117 AU	retrograde	8756 Nov 19 20:01	24° ₹ 12'10	
inferior conj	8755 Dec 21 22:17	3°♂30'22		evening set	8756 Nov 26 20:34	21° x 59'56	0.61122.417
minimum elong	8755 Dec 22 02:53 8755 Dec 25 20:03	3°る19'00 30°Rオ	Z ZZ Z4	min. Earth dist. inferior conj	8756 Nov 30 13:44 8756 Dec 03 15:50	16° × '15'13	0.61122 AU -3°35'26
morning rise	8755 Dec 28 20:36	30° ₹ ×¹ 28° ₹ 17'02		minimum elong	8756 Dec 03 13:30 8756 Dec 03 22:35	16° × ′34 19 16° × ⁷ 19'38	
asc. node	8755 Dec 29 06:20	28° ₹ 17 02 28° ₹ 08'55		morning rise	8756 Dec 11 02:56	11° х 1938	5 54 57
	200 27 00.20						

direct	9756 Dec. 12, 07:50	110.70017		morning rise	9757 Nov. 22 15:22	249 m 21127	
direct asc. node	8756 Dec 13 07:50 8756 Dec 15 03:24	11° 尽 20'17 11° 尽 34'19		morning rise direct	8757 Nov 23 15:22 8757 Nov 25 20:58	24°M31'27 24°M14'15	
morning max el	8756 Dec 20 11:00	14° ₹ 55'16	17°55'58	asc. node	8757 Dec 02 00:27	26°M33'00	
morning max ci	8756 Dec 30 20:09	0°る	17 33 36	morning max el	8757 Dec 02 00:27 8757 Dec 03 20:42	28°M08'28	18°24'06
morning set	8757 Jan 05 02:46	9° ට 31'42		morning max ci	8757 Dec 05 20:42 8757 Dec 05 14:32	20 11 0 00 20	10 24 00
morning set	0757 Jun 05 02.40) 0 31 42		morning set	8757 Dec 03 14:32 8757 Dec 19 18:27	23° × ⁷ 32'25	
superior conj	8757 Jan 15 11:50	28° ට 11'21	0°23'14	morning sec	8757 Dec 23 03:26	0°る	
minimum elong	8757 Jan 15 13:46	28° ට 19'47	0°23'08				
Č	8757 Jan 16 12:52	0° ≈		superior conj	8757 Dec 28 20:48	10° る 45'03	0°55'19
desc. node	8757 Jan 18 15:00	3°≈35'08		minimum elong	8757 Dec 29 00:06	11° る 00'12	0°55'04
max. Earth dist.	8757 Jan 23 00:05	10° ≈ 55'13	1.42621 AU	desc. node	8758 Jan 05 11:59	24° る 19'37	
evening rise	8757 Jan 29 03:31	20° ≈ 49'57		max. Earth dist.	8758 Jan 05 09:23	24° る 08'24	1.40615 AU
	8757 Feb 04 01:20	0° ∀			8758 Jan 08 20:31	0° ≈	
	8757 Feb 25 08:06	$0^{\circ}\mathbf{\Upsilon}$		evening rise	8758 Jan 09 19:30	1° ≈ 35'16	
evening max el	8757 Mar 02 15:19	6° Ƴ 00'19	22°11'58		8758 Jan 28 10:17	0°)	
retrograde	8757 Mar 12 04:19	11° Y 39'26		evening max el	8758 Feb 13 06:26	19°) √ 44′22	23°31'52
asc. node	8757 Mar 13 02:19	11° Y 35'12		retrograde	8758 Feb 23 22:47	26° ∺ 02'50	
evening set	8757 Mar 16 18:42	9° Ƴ 46'46		asc. node	8758 Feb 27 23:25	24°) 44'04	
inferior conj	8757 Mar 22 02:31	3° Y 25'54	2°34'13	evening set	8758 Mar 01 00:58	23°) 55'33	
minimum elong	8757 Mar 22 00:19	3° Y 33'34	2°33'40	inferior conj	8758 Mar 06 11:06	17° ∺ 28′28	1°58'44
min. Earth dist.	8757 Mar 22 00:47	3° Υ 31'57	0.68456 AU	minimum elong	8758 Mar 06 08:55	17°) ₹35'55	1°58'06
	8757 Mar 24 15:55	30° ₹		min. Earth dist.	8758 Mar 05 21:28	18°) 15'11	0.68368 AU
morning rise	8757 Mar 27 05:48	27°¥15'20		morning rise	8758 Mar 11 16:51	11°) (23'36	
direct	8757 Apr 01 00:28 8757 Apr 09 16:03	25° 米 13'51 0° Ƴ		direct	8758 Mar 15 21:48	9°) 44'33 14°) 28'04	20°51'00
morning may al		0° Υ 45'29	22°12'36	morning max el desc. node	8758 Mar 24 03:53	27°) 12'57	20 31 00
morning max el desc. node	8757 Apr 10 10:37 8757 Apr 16 14:53	7° Υ 50'25	22 12 30	desc. node	8758 Apr 03 11:48 8758 Apr 05 11:29	2/ π 123/	
desc. Hode	8757 May 02 10:01	0° と		morning set	8758 Apr 03 11:29 8758 Apr 23 03:30	26° Y 26'45	
morning set	8757 May 13 17:35	17° 8 38'55		morning set	8758 Apr 25 09:54	0° 8	
max. Earth dist.	8757 May 19 17:59	26° 8 24'16	1.41034 AU	max. Earth dist.	8758 May 01 05:54	9° 8 19'40	1.43026 AU
max. Earth dist.	8757 May 21 03:55	0°II	1.1103.1710	max. Dartii dist.	0750 May 01 05.51) (1) 10	1.13020710
	0,0,, , 00,000			superior conj	8758 May 08 03:11	20° 8 43'24	-2°06'08
superior conj	8757 May 26 19:36	9° Ⅱ 51'32	-1°45'48	minimum elong	8758 May 08 07:34	21° 8 01'53	2°06'05
minimum elong	8757 May 27 01:33	10° Ⅲ 18′04	1°45'24	_	8758 May 13 13:05	$\Pi^{\circ}0$	
evening rise	8757 Jun 06 04:55	28° ∏ 55'32		evening rise	8758 May 20 01:02	11° Ⅱ 27′21	
	8757 Jun 06 18:45	0 \circ \odot		asc. node	8758 May 26 22:14	23° Ⅲ 33′26	
asc. node	8757 Jun 09 01:12	4°512'47			8758 May 30 21:04	0 \circ \odot	
evening max el	8757 Jun 22 07:11	24°537'02	18°17'05	evening max el	8758 Jun 05 19:08	7° © 38'59	18°05'15
retrograde	8757 Jun 29 12:33	28° © 14'51		retrograde	8758 Jun 12 09:09	11° © 01'50	
evening set	8757 Jul 01 19:19	27° © 53'54		evening set	8758 Jun 14 23:27	10° © 30'08	
inferior conj	8757 Jul 09 01:59	23° © 13'16	1°18'09	inferior conj	8758 Jun 21 13:19	5° © 29'34	2°21'48
minimum elong	8757 Jul 09 04:24	23°508'08	1°17'08	minimum elong	8758 Jun 21 16:17	5°922'17	2°20'49
min. Earth dist.	8757 Jul 12 11:15	20°522'07	0.58943 AU	min. Earth dist.	8758 Jun 24 16:46	2°525'46	0.61189 AU
desc. node	8757 Jul 13 14:18 8757 Jul 16 10:16	19° © 29'31 17° © 37'44		marning rise	8758 Jun 27 13:57 8758 Jun 28 06:44	30°RⅡ 29°Ⅱ30'31	
morning rise direct	8757 Jul 22 16:09	17 \$37 44 15° \$52'24		morning rise desc. node	8758 Jun 30 11:22	29 H 3031 28° H 16'07	
morning max el	8757 Aug 06 01:14	23°939'17	27°24'45	direct	8758 Jul 04 22:21	27° I I15'43	
morning max er	8757 Aug 11 18:27	0°Ω	27 24 43	direct	8758 Jul 12 20:41	0°95	
	8757 Aug 30 20:21	0° m		morning max el	8758 Jul 19 04:40	5° © 15'36	27°54'39
asc. node	8757 Sep 05 00:48	10° m 18'52			8758 Aug 06 16:56	$0^{\circ}\Omega$	
morning set	8757 Sep 06 03:28	12° m 38'09		morning set	8758 Aug 21 06:51	26° Ω 54'42	
	•			asc. node	8758 Aug 22 21:43	0° ™ 17'06	
superior conj	8757 Sep 13 04:37	27° m 59'08	1°14'30		8758 Aug 22 18:28	0° m	
minimum elong	8757 Sep 13 02:23	27° m 46'44	1°14'08	max. Earth dist.	8758 Aug 27 02:58	9° ™ 21′20	1.31841 AU
max. Earth dist.	8757 Sep 12 18:23	27° m 02'19	1.31607 AU				
	8757 Sep 14 02:22	0∘ ⊽		superior conj	8758 Aug 28 15:10	12° m 40'03	0°55'18
evening rise	8757 Sep 19 22:50	12° ≙ 48'53		minimum elong	8758 Aug 28 13:04	12° m 28'28	0°54'50
	8757 Sep 28 13:57	0°M		evening rise	8758 Sep 04 09:32	27° m/29'51	
desc. node	8757 Oct 09 12:59	17°M38'43	26020126		8758 Sep 05 13:44	0∘ 亚	
evening max el	8757 Oct 18 23:07	28°M42'16	26°20'26	4 1	8758 Sep 22 11:53	0°M 5°M 02/20	
	8757 Oct 20 09:22	0°⊀ ⁷ 5°∗ 7 47129		desc. node	8758 Sep 26 10:06	5°M02'29	24050124
retrograde	8757 Nov 01 21:05	5° х 47′28 4° х 01′55		evening max el	8758 Sep 30 14:56 8758 Oct 14 11:29	9°M32'35 16°M31'32	24°59'34
evening set min. Earth dist.	8757 Nov 08 11:09 8757 Nov 12 12:20	4°×'01'55 1°× 7 27'26	0.59030 AU	retrograde evening set	8758 Oct 14 11:29 8758 Oct 20 02:14	16°11631'32 15°11620'14	
min. Latin uist.	8757 Nov 14 10:59	30°RM	0.57050 AU	min. Earth dist.	8758 Oct 25 02:22	13 11620 14 12°M37'38	0.57060 AU
inferior conj	8757 Nov 15 16:43	29°M03'12	-4°40'34	inferior conj	8758 Oct 27 02:22 8758 Oct 27 21:49	10°M46'48	
minimum elong	8757 Nov 16 00:05	28°M49'15		minimum elong	8758 Oct 28 02:14	10°M39'30	
			= -				

morning rise	8758 Nov 05 04:31	6°M37'53		morning rise	8759 Oct 16 17:06	17° ≏ 50'44	
direct	8758 Nov 07 15:43	6°M20'30		direct	8759 Oct 19 15:14	17° ≏ 30'04	
morning max el	8758 Nov 16 21:02	10°M43'52	19°13'48	morning max el	8759 Oct 30 08:57	22° ჲ 32'35	20°25'58
asc. node	8758 Nov 18 21:27	12°ML51'27		asc. node	8759 Nov 05 18:25	0°M14'21	
	8758 Nov 29 17:31	0° ∡ ¹			8759 Nov 05 14:28	0° M	
morning set	8758 Dec 03 19:05	7° ∡ 756'38		morning set	8759 Nov 18 01:34	22°M35'37	
					8759 Nov 21 15:37	0° ∡ ″	
superior conj	8758 Dec 11 23:18	24° ₰ 08'16	1°18'27				
minimum elong	8758 Dec 12 02:20	24° ₹ 22'58	1°18'21	superior conj	8759 Nov 25 14:36	8° ₹ 07'22	1°33'06
	8758 Dec 15 00:57	0° ප		minimum elong	8759 Nov 25 16:35	8° ҂ 17′22	1°33'11
max. Earth dist.	8758 Dec 18 15:08	6° ප 38'01	1.38439 AU	max. Earth dist.	8759 Nov 30 22:05	18° ∡ 37'33	1.36349 AU
evening rise	8758 Dec 22 09:20	13° る 18'19		evening rise	8759 Dec 04 18:59	25° ∡ ′53′36	
desc. node	8758 Dec 23 08:59	15° る 00'33			8759 Dec 07 01:31	0°る	
	8759 Jan 01 12:36	0° ≈		desc. node	8759 Dec 10 06:00	5° る 33'49	
	8759 Jan 23 11:38	0° ∀	24050115		8759 Dec 26 00:36	0°≈	2 (000110
evening max el	8759 Jan 26 19:41	3°) €31'06	24°50'17	evening max el	8760 Jan 09 08:50	17°≈18'36	26°00'10
retrograde	8759 Feb 07 13:25	10° ¥ 21′24		retrograde	8760 Jan 21 23:14	24°≈29'11	
evening set	8759 Feb 13 04:02	8° ₩ 01'15		evening set	8760 Jan 28 02:13	21°≈59'13	0.66006.444
asc. node	8759 Feb 14 20:31	6° ∺ 23'07 2° ∺ 55'18	0.67874 AU	min. Earth dist.	8760 Feb 01 08:15	17°≈27'48	0.66996 AU
min. Earth dist.	8759 Feb 17 16:42	1°\(\frac{1}{32}\)'15	0.67874 AU 1°14'43	asc. node	8760 Feb 01 17:36	16°≈58'49	0822120
inferior conj	8759 Feb 18 17:50 8759 Feb 18 16:11	1° H 32'13	1°14'43 1°14'13	inferior conj	8760 Feb 02 20:50 8760 Feb 02 20:15	15°≈33'36 15°≈35'26	0°22'30 0°22'25
minimum elong	8759 Feb 18 16.11 8759 Feb 19 22:05	1 K3/43 30°R≈	1 1413	minimum elong morning rise	8760 Feb 02 20:13 8760 Feb 08 14:55	9°≈44'44	0 22 23
morning rise	8759 Feb 19 22:03 8759 Feb 24 04:34	30 k≈ 25°≈34'27		direct	8760 Feb 08 14.33 8760 Feb 11 19:43	9 ≈44 44 8°≈46'18	
direct	8759 Feb 27 20:42	24°≈17'01		morning max el	8760 Feb 18 13:23	12°≈26'21	18°48'22
morning max el	8759 Mar 07 04:53	28°≈22'44	19°42'01	morning max cr	8760 Mar 02 13:02	0°) €	10 4022
morning max cr	8759 Mar 08 17:58	0° \	17 42 01	desc. node	8760 Mar 07 05:38	7°) 15′18	
greatest brilliancy	8759 Mar 19 22:39	14°) 58'10	-0.6m	morning set	8760 Mar 11 10:42	13°) (49'36	
desc. node	8759 Mar 21 08:43	17°) 03'49	0.0111	morning sec	8760 Mar 21 19:04	0°Υ	
acse. node	8759 Mar 29 22:19	0°Υ		max. Earth dist.	8760 Mar 26 10:14	7° Υ 14'54	1.45389 AU
morning set	8759 Apr 02 01:07	4° Υ 47'07		man. Barar alov.	0,001,141 20 10.11	, , , , , , ,	1. 10505 110
max. Earth dist.	8759 Apr 13 17:26	23° Y 01'05	1.44529 AU	superior conj	8760 Mar 27 20:53	9° Y 30'50	-1°58'01
	1			minimum elong	8760 Mar 27 12:53	8° Y 59'25	
superior conj	8759 Apr 18 10:07	0° 8 31'24	-2°11'54	· ·	8760 Apr 09 18:43	0°8	
minimum elong	8759 Apr 18 08:51	0° 8 26'18		evening rise	8760 Apr 12 02:40	3° 8 45'08	
	8759 Apr 18 02:19	8° 0		greatest brilliancy	8760 Apr 18 08:59	13° 8 51'28	-0.9m
evening rise	8759 May 02 01:30	23° 8 05'57			8760 Apr 29 00:39	$\Pi^{\circ}0$	
	8759 May 06 03:24	\mathfrak{I} 0°		asc. node	8760 Apr 29 16:20	0°Ⅲ51′10	
asc. node	8759 May 13 19:17	12° Ⅱ 29'09		evening max el	8760 May 02 20:37	4° Ⅱ 31′08	18°37'38
evening max el	8759 May 20 08:35	20° Ⅱ 59'42	18°12'23	retrograde	8760 May 09 09:54	8°Щ06′12	
retrograde	8759 May 26 17:42	24° Ⅲ 22'03		evening set	8760 May 12 15:07	7° Ⅱ 07'30	
evening set	8759 May 29 15:22	23° Ⅲ 37'32		inferior conj	8760 May 18 07:15	1° ∏ 31'48	3°18'58
inferior conj	8759 Jun 04 16:26	18° Ⅱ 18'41	3°00'28	minimum elong	8760 May 18 08:06	1° Ⅱ 29′10	3°18'43
minimum elong	8759 Jun 04 18:35	18° Ⅱ 12'44	2°59'53		8760 May 19 13:21	30° ₹8	
min. Earth dist.	8759 Jun 07 07:30	15° Ⅱ 25'05	0.63351 AU	min. Earth dist.	8760 May 20 07:15	29° 8 06'13	0.65231 AU
morning rise	8759 Jun 10 20:21	12° Ⅱ 06'35		morning rise	8760 May 24 00:20	25° 8 14'13	
desc. node	8759 Jun 17 08:23	9° Ⅱ 30′29		direct	8760 May 30 14:05	22° 8 28'16	
direct	8759 Jun 17 14:21	9° Ⅱ 30'17	27046126	desc. node	8760 Jun 03 05:24	23° 8 11'44	
morning max el	8759 Jul 01 12:52	17° Ⅱ 33'24	27°46'26		8760 Jun 12 14:20	0° П	27004120
	8759 Jul 11 21:48	$0 {\circ} {\mathfrak C}$		morning max el	8760 Jun 12 23:02	0°Ⅲ21'52 0°ᢒ	2/*04/28
morning set	8759 Jul 30 12:43 8759 Aug 05 03:24	0 δ ε 10° Ω 48'57		morning set	8760 Jul 04 21:53 8760 Jul 18 14:12	୦ ୬୭ 24°ହ୍ଡୀ 1'48	
asc. node	8759 Aug 09 18:39	20°Ω21'38		morning set	8760 Jul 21 13:09	24 3 11 48	
max. Earth dist.	8759 Aug 10 05:59	20 δ2 21 38	1.32553 AU	max. Earth dist.	8760 Jul 22 23:52	2° Ω 54'42	1.33757 AU
max. Latin dist.	0757 Aug 10 05.57	21 862137	1.52555 AO	asc. node	8760 Jul 26 15:35	10°Ω27'33	1.55757 AO
superior conj	8759 Aug 12 22:39	27° Ω 08'08	0°31'35	ase. Houe	0700 Jul 20 15.55	10 062733	
minimum elong	8759 Aug 12 22:37	27° Ω 00'22	0°31'10	superior conj	8760 Jul 27 00:52	11° Ω 16'16	0°03'54
8	8759 Aug 14 06:21	0° m)		minimum elong	8760 Jul 27 00:40	11°Ω15'13	0°03'41
evening rise	8759 Aug 19 21:10	12° m) 10'31		behind sun begin	8760 Jul 26 19:10	10° Ω 46'19	
<i>3</i>	8759 Aug 28 20:43	0° ⊽		behind sun end	8760 Jul 27 06:10	11° Ω 44'09	
evening max el	8759 Sep 12 02:08	19° ≏ 49'18	23°22'01	evening rise	8760 Aug 03 07:46	26° Ω 44'17	
desc. node	8759 Sep 13 07:12	20° ≏ 56'54		-	8760 Aug 04 21:14	0° m/y	
retrograde	8759 Sep 25 13:34	26° ≏ 33'24		evening max el	8760 Aug 23 17:04	0° ჲ 05'29	21°44'34
evening set	8759 Sep 29 17:39	25° ≏ 55'26			8760 Aug 23 14:50	0∘ ⊽	
min. Earth dist.	8759 Oct 06 11:49	22° ≏ 46'10	0.55527 AU	desc. node	8760 Aug 30 04:18	4° £ 50'47	
inferior conj	8759 Oct 08 06:59	21° ≏ 42'45	-5°34'35	retrograde	8760 Sep 05 04:20	6° £ 16'51	
minimum elong	8759 Oct 08 04:21	21° ≏ 46'37	5°34'21	evening set	8760 Sep 07 22:33	5° ≏ 59'42	

inferior conj	8760 Sep 17 02:00	2° ჲ 00'59	-4°48'18	desc. node	8761 Aug 17 01:26	16° Mp 15'46	
minimum elong	8760 Sep 16 17:03	2° ⊆ 13'29	4°46'21	evening set	8761 Aug 18 16:19	16° Mp 06'11	
min. Earth dist.	8760 Sep 16 20:01	2° ഫ 09'21	0.54732 AU	inferior conj	8761 Aug 27 19:34	12° m 08'29	-3°12'27
mm. Zarm Gibt.	8760 Sep 20 20:08	30°R, M)	0.0 1/02110	minimum elong	8761 Aug 27 11:05	12° m/20'54	
morning rise	8760 Sep 25 12:44	28° mp 11'51		min. Earth dist.	8761 Aug 29 05:32	11° mp 18'51	0.54866 AU
direct	8760 Sep 29 01:45	27° m) 44'23		morning rise	8761 Sep 05 05:05	8°m/01'58	
	8760 Oct 06 16:56	0∘ ⊽		direct	8761 Sep 09 11:21	7° m 22'54	
morning max el	8760 Oct 11 07:52	3° ₽ 31'59	21°58'39	morning max el	8761 Sep 22 21:54	13° m 54'40	23°43'53
asc. node	8760 Oct 22 15:23	18° ≏ 27'10		-	8761 Oct 05 07:52	0° ⊽	
	8760 Oct 28 21:15	0° M		asc. node	8761 Oct 09 12:21	7° ≏ 17'48	
morning set	8760 Nov 01 11:35	7°M22'51		morning set	8761 Oct 16 23:13	22° ₽ 12'39	
					8761 Oct 20 13:57	0°M₊	
superior conj	8760 Nov 08 14:56	22°M31'21	1°40'09				
minimum elong	8760 Nov 08 15:36	22°M34'54	1°40'18	superior conj	8761 Oct 23 21:18	7° IL 11'15	1°40'25
	8760 Nov 12 05:28	0° ⊀		minimum elong	8761 Oct 23 20:46	7° M 08'18	1°40'32
max. Earth dist.	8760 Nov 12 11:34	0° ₰ 31'07	1.34542 AU	max. Earth dist.	8761 Oct 26 09:26	12°M34'04	1.33133 AU
evening rise	8760 Nov 16 20:42	9° ∡ 11'27		evening rise	8761 Oct 31 10:40	23°M01'38	
desc. node	8760 Nov 26 03:02	25° ⋌ 54'42			8761 Nov 04 00:15	0° ∡ ¹	
	8760 Nov 28 14:15	ರ°ರ		desc. node	8761 Nov 13 00:05	15° ∡ 56'43	
	8760 Dec 20 21:50	0° ≈			8761 Nov 22 06:53	0°ಕ	
evening max el	8760 Dec 21 22:19		26°54'06	evening max el	8761 Dec 04 10:52	14° る 23'34	27°24'50
retrograde	8761 Jan 04 03:21	8°≈19'27		retrograde	8761 Dec 18 01:03	21°る43'24	
evening set	8761 Jan 10 17:38	5°≈44'18	0.65550.444	evening set	8761 Dec 24 23:54	19° る 09'35	0.64151.477
min. Earth dist.	8761 Jan 14 17:49		0.65753 AU	min. Earth dist.	8761 Dec 28 19:05	15° る 45'20	
	8761 Jan 16 07:00	30°Rる	0027125	inferior conj	8761 Dec 31 06:52	13° る 08'43	
inferior conj	8761 Jan 16 18:01	29°る28'01 29°る24'55		minimum elong	8761 Dec 31 10:06	13°る00'13 8°る30'15	1°42′23
minimum elong asc. node	8761 Jan 16 19:05 8761 Jan 18 14:42	29° る 24°33	0-30-45	asc. node	8762 Jan 05 11:48 8762 Jan 06 22:00	8° る 3013 7° る 45'47	
morning rise	8761 Jan 18 14.42 8761 Jan 22 21:40	27 3 22 30 23° 3 50'36		morning rise direct	8762 Jan 09 22:00 8762 Jan 09 09:34	7°る14'41	
direct	8761 Jan 25 16:52	23° る 07'41		morning max el	8762 Jan 15 20:43	7 31441 10° 3 36'46	17°51'16
morning max el	8761 Feb 01 03:34	25 3 0741 26° る 33'38	18°11'19	morning max cr	8762 Jan 29 02:43	0°≈	17 31 10
morning max ci	8761 Feb 04 04:15	20 ⊙ 33 36	10 11 17	morning set	8762 Feb 01 18:01	6°≈09'31	
morning set	8761 Feb 20 00:10	24°≈18'06		desc. node	8762 Feb 08 23:29	18°≈18'00	
desc. node	8761 Feb 22 02:34	27° ≈ 41'48		desc. node	0,02100 00 20.29	10 10 10 00	

	8761 Feb 23 12:51	0° ∀		superior coni	8762 Feb 14 21:52	28°≈00'33	-0°42'22
	8761 Feb 23 12:51	0° ∀		superior conj minimum elong	8762 Feb 14 21:52 8762 Feb 14 17:06	28°≈00'33 27°≈41'18	-0°42'22 0°41'33
superior conj	8761 Feb 23 12:51 8761 Mar 07 02:35	0° 米 18° 米 24'10	-1°25'24	superior conj minimum elong	8762 Feb 14 21:52 8762 Feb 14 17:06 8762 Feb 16 03:31		
					8762 Feb 14 17:06	27° ≈ 41'18	
superior conj minimum elong max. Earth dist.	8761 Mar 07 02:35	18°) 24'10 17°) 48'02		minimum elong max. Earth dist.	8762 Feb 14 17:06 8762 Feb 16 03:31	27° ≈ 41'18 0°) €	0°41'33
minimum elong	8761 Mar 07 02:35 8761 Mar 06 17:24	18°) 24'10 17°) 48'02	1°24'19	minimum elong	8762 Feb 14 17:06 8762 Feb 16 03:31 8762 Feb 20 01:36	27°≈41'18 0°¥ 6°¥15'03	0°41'33
minimum elong	8761 Mar 07 02:35 8761 Mar 06 17:24 8761 Mar 09 06:05	18°) 24'10 17°) 48'02 21°) 46'11	1°24'19	minimum elong max. Earth dist.	8762 Feb 14 17:06 8762 Feb 16 03:31 8762 Feb 20 01:36 8762 Mar 02 18:23	27°≈41'18 0° X 6° X 15'03 22° X 54'24	0°41'33
minimum elong max. Earth dist.	8761 Mar 07 02:35 8761 Mar 06 17:24 8761 Mar 09 06:05 8761 Mar 14 12:31	18°¥24'10 17°¥48'02 21°¥46'11 0° °	1°24'19	minimum elong max. Earth dist.	8762 Feb 14 17:06 8762 Feb 16 03:31 8762 Feb 20 01:36 8762 Mar 02 18:23 8762 Mar 07 09:55	27°≈41'18 0° X 6° X 15'03 22° X 54'24 0° Y	0°41'33 1.44893 AU
minimum elong max. Earth dist.	8761 Mar 07 02:35 8761 Mar 06 17:24 8761 Mar 09 06:05 8761 Mar 14 12:31 8761 Mar 23 05:31	18°¥24'10 17°¥48'02 21°¥46'11 0°Y 13°Y33'27	1°24'19	minimum elong max. Earth dist. evening rise	8762 Feb 14 17:06 8762 Feb 16 03:31 8762 Feb 20 01:36 8762 Mar 02 18:23 8762 Mar 07 09:55 8762 Mar 28 16:03	27°≈41'18 0° ℋ 6°ℋ15'03 22°ℋ54'24 0° ℉ 0° ♉	0°41'33 1.44893 AU
minimum elong max. Earth dist.	8761 Mar 07 02:35 8761 Mar 06 17:24 8761 Mar 09 06:05 8761 Mar 14 12:31 8761 Mar 23 05:31 8761 Apr 02 20:33	18°¥24'10 17°¥48'02 21°¥46'11 0°°Y 13°Y'33'27 0°8	1°24'19 1.45514 AU	minimum elong max. Earth dist. evening rise evening max el	8762 Feb 14 17:06 8762 Feb 16 03:31 8762 Feb 20 01:36 8762 Mar 02 18:23 8762 Mar 07 09:55 8762 Mar 28 16:03 8762 Mar 30 08:11	27°≈41'18 0°₩ 6°₩15'03 22°₩54'24 0°Ψ 0°₩ 1°₩48'00	0°41'33 1.44893 AU
minimum elong max. Earth dist. evening rise greatest brilliancy	8761 Mar 07 02:35 8761 Mar 06 17:24 8761 Mar 09 06:05 8761 Mar 14 12:31 8761 Mar 23 05:31 8761 Apr 02 20:33 8761 Apr 04 04:39	18° ¥24'10 17° ¥48'02 21° ¥46'11 0° Ψ 13° Ψ33'27 0° 8 2° 801'53	1°24'19 1.45514 AU -0.7m	minimum elong max. Earth dist. evening rise evening max el asc. node	8762 Feb 14 17:06 8762 Feb 16 03:31 8762 Feb 20 01:36 8762 Mar 02 18:23 8762 Mar 07 09:55 8762 Mar 28 16:03 8762 Mar 30 08:11 8762 Apr 03 10:35	27°≈41'18 0° ₩ 6° ₩ 15'03 22° ₩ 54'24 0° Ψ 0° ₩ 1° ₩ 48'00 5° ₩ 11'07 6° ₩ 22'41 4° ₩ 53'51	0°41'33 1.44893 AU
minimum elong max. Earth dist. evening rise greatest brilliancy evening max el	8761 Mar 07 02:35 8761 Mar 06 17:24 8761 Mar 09 06:05 8761 Mar 14 12:31 8761 Mar 23 05:31 8761 Apr 02 20:33 8761 Apr 04 04:39 8761 Apr 16 05:01 8761 Apr 16 13:26 8761 Apr 23 06:37	18°¥24'10 17°¥48'02 21°¥46'11 0°♥ 13°¥33'27 0°8 2°801'53 18°808'41 18°829'39 22°808'28	1°24'19 1.45514 AU -0.7m	minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set	8762 Feb 14 17:06 8762 Feb 16 03:31 8762 Feb 20 01:36 8762 Mar 02 18:23 8762 Mar 07 09:55 8762 Mar 28 16:03 8762 Mar 30 08:11 8762 Apr 03 10:35 8762 Apr 07 05:10 8762 Apr 11 03:14 8762 Apr 15 14:01	27°≈41'18 0° ₩ 6° ₩15'03 22° ₩54'24 0° Ψ 0° ℧ 1° ℧ 48'00 5° ℧ 11'07 6° ℧ 22'41 4° ℧ 53'51 30° ℝ Ψ	0°41'33 1.44893 AU
minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set	8761 Mar 07 02:35 8761 Mar 06 17:24 8761 Mar 09 06:05 8761 Mar 14 12:31 8761 Mar 23 05:31 8761 Apr 02 20:33 8761 Apr 04 04:39 8761 Apr 16 05:01 8761 Apr 16 13:26 8761 Apr 23 06:37 8761 Apr 26 19:50	18°¥24'10 17°¥48'02 21°¥46'11 0°°Y 13°Y33'27 0°8 2°801'53 18°808'41 18°829'39 22°808'28 20°854'53	1°24'19 1.45514 AU -0.7m 19°19'57	minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj	8762 Feb 14 17:06 8762 Feb 16 03:31 8762 Feb 20 01:36 8762 Mar 02 18:23 8762 Mar 07 09:55 8762 Mar 28 16:03 8762 Mar 30 08:11 8762 Apr 03 10:35 8762 Apr 07 05:10 8762 Apr 11 03:14 8762 Apr 15 14:01 8762 Apr 16 10:59	27°≈41'18 0° ₩ 6° ₩ 15'03 22° ₩ 54'24 0° Ψ 0° ₩ 1° ₩ 48'00 5° ₺ 11'07 6° ₺ 22'41 4° ₺ 53'51 30° ℝ Ψ 28° Ψ 49'01	0°41'33 1.44893 AU 20°17'37 3°11'26
minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj	8761 Mar 07 02:35 8761 Mar 06 17:24 8761 Mar 09 06:05 8761 Mar 14 12:31 8761 Mar 23 05:31 8761 Apr 02 20:33 8761 Apr 04 04:39 8761 Apr 16 05:01 8761 Apr 16 13:26 8761 Apr 23 06:37 8761 Apr 26 19:50 8761 May 02 06:23	18°¥24'10 17°¥48'02 21°¥46'11 0°°Y 13°Y33'27 0°8 2°801'53 18°808'41 18°829'39 22°808'28 20°854'53 15°803'40	1°24'19 1.45514 AU -0.7m 19°19'57	minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong	8762 Feb 14 17:06 8762 Feb 16 03:31 8762 Feb 20 01:36 8762 Mar 02 18:23 8762 Mar 07 09:55 8762 Mar 28 16:03 8762 Mar 30 08:11 8762 Apr 03 10:35 8762 Apr 07 05:10 8762 Apr 11 03:14 8762 Apr 15 14:01 8762 Apr 16 10:59 8762 Apr 16 09:36	27°≈41'18 0° ₩ 6° ₩ 15'03 22° ₩ 54'24 0° Ψ 0° ₩ 1° ₺ 48'00 5° ₺ 11'07 6° ₺ 22'41 4° ₺ 53'51 30° ℝ Ψ 28° Ψ 49'01 28° Ψ 53'43	0°41'33 1.44893 AU 20°17'37 3°11'26 3°11'10
minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong	8761 Mar 07 02:35 8761 Mar 06 17:24 8761 Mar 09 06:05 8761 Mar 14 12:31 8761 Mar 23 05:31 8761 Apr 02 20:33 8761 Apr 04 04:39 8761 Apr 16 05:01 8761 Apr 16 13:26 8761 Apr 23 06:37 8761 Apr 26 19:50 8761 May 02 06:23 8761 May 02 05:59	18°¥24'10 17°¥48'02 21°¥46'11 0°°Y 13°Y33'27 0°8 2°801'53 18°808'41 18°829'39 22°808'28 20°854'53 15°803'40 15°804'56	1°24'19 1.45514 AU -0.7m 19°19'57 3°21'34 3°21'25	minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	8762 Feb 14 17:06 8762 Feb 16 03:31 8762 Feb 20 01:36 8762 Mar 02 18:23 8762 Mar 07 09:55 8762 Mar 28 16:03 8762 Mar 30 08:11 8762 Apr 03 10:35 8762 Apr 07 05:10 8762 Apr 11 03:14 8762 Apr 15 14:01 8762 Apr 16 10:59 8762 Apr 16 09:36 8762 Apr 17 05:25	27°≈41'18 0° ₩ 6° ₩ 15'03 22° ₩ 54'24 0° Ψ 0° ₩ 1° ₺ 48'00 5° ₺ 11'07 6° ₺ 22'41 4° ₺ 53'51 30° ℝ Ψ 28° Ψ 49'01 28° Ψ 53'43 27° Ψ 46'11	0°41'33 1.44893 AU 20°17'37 3°11'26
minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	8761 Mar 07 02:35 8761 Mar 06 17:24 8761 Mar 09 06:05 8761 Mar 14 12:31 8761 Mar 23 05:31 8761 Apr 02 20:33 8761 Apr 04 04:39 8761 Apr 16 05:01 8761 Apr 16 13:26 8761 Apr 23 06:37 8761 Apr 26 19:50 8761 May 02 06:23 8761 May 02 05:59 8761 May 03 15:07	18°¥24'10 17°¥48'02 21°¥46'11 0°° 13°°33'27 0°℧ 2°℧01'53 18°℧08'41 18°℧29'39 22°℧08'28 20°℧54'53 15°℧03'40 15°℧04'56 13°℧17'05	1°24'19 1.45514 AU -0.7m 19°19'57	minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8762 Feb 14 17:06 8762 Feb 16 03:31 8762 Feb 20 01:36 8762 Mar 02 18:23 8762 Mar 07 09:55 8762 Mar 28 16:03 8762 Mar 30 08:11 8762 Apr 03 10:35 8762 Apr 07 05:10 8762 Apr 11 03:14 8762 Apr 15 14:01 8762 Apr 16 10:59 8762 Apr 16 09:36 8762 Apr 17 05:25 8762 Apr 21 15:44	27°≈41'18 0° ₩ 6° ₩ 15'03 22° ₩ 54'24 0° Ψ 0° ₩ 1° ₩ 48'00 5° ₩ 11'07 6° ₩ 22'41 4° ₩ 53'51 30° ℝ Ψ 28° Ψ 49'01 28° Ψ 53'43 27° Ψ 46'11 22° Ψ 32'12	0°41'33 1.44893 AU 20°17'37 3°11'26 3°11'10
minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8761 Mar 07 02:35 8761 Mar 06 17:24 8761 Mar 09 06:05 8761 Mar 14 12:31 8761 Mar 23 05:31 8761 Apr 02 20:33 8761 Apr 04 04:39 8761 Apr 16 05:01 8761 Apr 16 13:26 8761 Apr 23 06:37 8761 Apr 26 19:50 8761 May 02 06:23 8761 May 02 05:59 8761 May 03 15:07 8761 May 07 15:47	18°¥24'10 17°¥48'02 21°¥46'11 0°° 13°°¥33'27 0°℧ 2°℧01'53 18°℧08'41 18°℧29'39 22°℧08'28 20°℧54'53 15°℧03'40 15°℧04'56 13°℧17'05 8°℧45'10	1°24'19 1.45514 AU -0.7m 19°19'57 3°21'34 3°21'25	minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8762 Feb 14 17:06 8762 Feb 16 03:31 8762 Feb 20 01:36 8762 Mar 02 18:23 8762 Mar 07 09:55 8762 Mar 28 16:03 8762 Mar 30 08:11 8762 Apr 03 10:35 8762 Apr 07 05:10 8762 Apr 11 03:14 8762 Apr 15 14:01 8762 Apr 16 10:59 8762 Apr 16 09:36 8762 Apr 17 05:25 8762 Apr 21 15:44 8762 Apr 27 07:58	27°≈41'18 0° ₩ 6° ₩ 15'03 22° ₩ 54'24 0° Ψ 0° ₩ 1° ₩ 48'00 5° ₩ 11'07 6° ₩ 22'41 4° ₩ 53'51 30° ℝ Ψ 28° Ψ 49'01 28° Ψ 53'43 27° Ψ 46'11 22° Ψ 32'12 20° Ψ 00'25	0°41'33 1.44893 AU 20°17'37 3°11'26 3°11'10
minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8761 Mar 07 02:35 8761 Mar 06 17:24 8761 Mar 09 06:05 8761 Mar 14 12:31 8761 Mar 23 05:31 8761 Apr 02 20:33 8761 Apr 04 04:39 8761 Apr 16 05:01 8761 Apr 16 13:26 8761 Apr 23 06:37 8761 Apr 26 19:50 8761 May 02 06:23 8761 May 02 05:59 8761 May 03 15:07 8761 May 07 15:47 8761 May 13 20:19	18° χ24'10 17° χ48'02 21° χ46'11 0° Υ 13° Υ33'27 0° ႘ 2° ႘01'53 18° ႘08'41 18° ႘29'39 22° ႘08'28 20° ႘54'53 15° ႘03'40 15° ႘04'56 13° ႘17'05 8° ႘45'10 6° ႘01'33	1°24'19 1.45514 AU -0.7m 19°19'57 3°21'34 3°21'25	minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	8762 Feb 14 17:06 8762 Feb 16 03:31 8762 Feb 20 01:36 8762 Mar 02 18:23 8762 Mar 07 09:55 8762 Mar 28 16:03 8762 Mar 30 08:11 8762 Apr 03 10:35 8762 Apr 07 05:10 8762 Apr 11 03:14 8762 Apr 15 14:01 8762 Apr 16 10:59 8762 Apr 16 09:36 8762 Apr 17 05:25 8762 Apr 21 15:44 8762 Apr 27 07:58 8762 May 07 23:23	27°≈41'18 0°	0°41'33 1.44893 AU 20°17'37 3°11'26 3°11'10 0.67740 AU
minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	8761 Mar 07 02:35 8761 Mar 06 17:24 8761 Mar 09 06:05 8761 Mar 14 12:31 8761 Mar 23 05:31 8761 Apr 02 20:33 8761 Apr 04 04:39 8761 Apr 16 05:01 8761 Apr 16 13:26 8761 Apr 23 06:37 8761 Apr 26 19:50 8761 May 02 06:23 8761 May 02 05:59 8761 May 03 15:07 8761 May 07 15:47 8761 May 13 20:19 8761 May 21 02:25	18° χ24'10 17° χ48'02 21° χ46'11 0° Υ 13° Υ33'27 0° ႘ 2° ႘01'53 18° ႘08'41 18° ႘29'39 22° ႘08'28 20° ႘54'53 15° ႘03'40 15° ႘04'56 13° ႘17'05 8° ႘45'10 6° ႘01'33 8° ႘53'09	1°24'19 1.45514 AU -0.7m 19°19'57 3°21'34 3°21'25 0.66712 AU	minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8762 Feb 14 17:06 8762 Feb 16 03:31 8762 Feb 20 01:36 8762 Mar 02 18:23 8762 Mar 07 09:55 8762 Mar 28 16:03 8762 Mar 30 08:11 8762 Apr 03 10:35 8762 Apr 07 05:10 8762 Apr 11 03:14 8762 Apr 15 14:01 8762 Apr 16 10:59 8762 Apr 16 09:36 8762 Apr 17 05:25 8762 Apr 21 15:44 8762 Apr 27 07:58 8762 May 07 23:23 8762 May 08 18:36	27°≈41'18 0°	0°41'33 1.44893 AU 20°17'37 3°11'26 3°11'10 0.67740 AU
minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8761 Mar 07 02:35 8761 Mar 06 17:24 8761 Mar 09 06:05 8761 Mar 14 12:31 8761 Mar 23 05:31 8761 Apr 02 20:33 8761 Apr 04 04:39 8761 Apr 16 05:01 8761 Apr 16 13:26 8761 Apr 23 06:37 8761 Apr 26 19:50 8761 May 02 06:23 8761 May 02 05:59 8761 May 03 15:07 8761 May 07 15:47 8761 May 13 20:19 8761 May 21 02:25 8761 May 26 09:13	18° χ24'10 17° χ48'02 21° χ46'11 0° Υ 13° Υ33'27 0° ႘ 2° ႘01'53 18° ႘08'41 18° ႘29'39 22° ႘08'28 20° ႘54'53 15° ႘03'40 15° ႘04'56 13° ႘17'05 8° ႘45'10 6° ႘01'33 8° ႘53'09 13° ႘31'01	1°24'19 1.45514 AU -0.7m 19°19'57 3°21'34 3°21'25	minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	8762 Feb 14 17:06 8762 Feb 16 03:31 8762 Feb 20 01:36 8762 Mar 02 18:23 8762 Mar 07 09:55 8762 Mar 28 16:03 8762 Mar 30 08:11 8762 Apr 03 10:35 8762 Apr 07 05:10 8762 Apr 11 03:14 8762 Apr 15 14:01 8762 Apr 16 10:59 8762 Apr 16 09:36 8762 Apr 17 05:25 8762 Apr 21 15:44 8762 Apr 27 07:58 8762 May 07 23:23 8762 May 08 18:36 8762 May 11 16:40	27°≈41'18 0°	0°41'33 1.44893 AU 20°17'37 3°11'26 3°11'10 0.67740 AU
minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	8761 Mar 07 02:35 8761 Mar 06 17:24 8761 Mar 09 06:05 8761 Mar 14 12:31 8761 Mar 23 05:31 8761 Apr 02 20:33 8761 Apr 04 04:39 8761 Apr 16 05:01 8761 Apr 16 13:26 8761 Apr 23 06:37 8761 Apr 26 19:50 8761 May 02 06:23 8761 May 02 05:59 8761 May 03 15:07 8761 May 07 15:47 8761 May 13 20:19 8761 May 21 02:25 8761 May 26 09:13 8761 Jun 08 17:26	18° \ 24'10 17° \ 48'02 21° \ 46'11 0° \ 13° \ 33'27 0° \ 2° \ 301'53 18° \ 308'41 18° \ 29'39 22° \ 308'28 20° \ 554'53 15° \ 303'40 15° \ 304'56 13° \ 31'05 8° \ 35'309 13° \ 31'01 0° \ II	1°24'19 1.45514 AU -0.7m 19°19'57 3°21'34 3°21'25 0.66712 AU	minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	8762 Feb 14 17:06 8762 Feb 16 03:31 8762 Feb 20 01:36 8762 Mar 02 18:23 8762 Mar 07 09:55 8762 Mar 28 16:03 8762 Mar 30 08:11 8762 Apr 03 10:35 8762 Apr 07 05:10 8762 Apr 11 03:14 8762 Apr 15 14:01 8762 Apr 16 10:59 8762 Apr 16 09:36 8762 Apr 17 05:25 8762 Apr 21 15:44 8762 Apr 27 07:58 8762 May 07 23:23 8762 May 08 18:36 8762 May 11 16:40 8762 Jun 02 08:07	27°≈41'18 0°	0°41'33 1.44893 AU 20°17'37 3°11'26 3°11'10 0.67740 AU
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minimum elong max. Earth dist. evening rise greatest brilliancy 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 evening rise	8761 Mar 07 02:35 8761 Mar 06 17:24 8761 Mar 09 06:05 8761 Mar 14 12:31 8761 Mar 23 05:31 8761 Apr 02 20:33 8761 Apr 04 04:39 8761 Apr 16 05:01 8761 Apr 16 05:01 8761 Apr 23 06:37 8761 Apr 26 19:50 8761 May 02 06:23 8761 May 02 05:59 8761 May 02 05:59 8761 May 03 15:07 8761 May 07 15:47 8761 May 13 20:19 8761 May 26 09:13 8761 Jun 08 17:26 8761 Jun 08 17:26 8761 Jul 01 11:35 8761 Jul 01 11:35 8761 Jul 10 19:19 8761 Jul 10 19:19 8761 Jul 10 20:54 8761 Jul 13 06:28 8761 Jul 13 12:34 8761 Jul 18 15:20 8761 Jul 28 14:46	18° \ 24'10 17° \ 48'02 21° \ 46'11 0° \ 13° \ 33'27 0° \ 2° \ 30'153 18° \ 308'41 18° \ 29'39 22° \ 308'28 20° \ 54'53 15° \ 303'40 15° \ 304'56 13° \ 31'705 8° \ 345'10 6° \ 301'33 8° \ 553'09 13° \ 331'01 0° \ II 0° \ G 6° \ G53'51 14° \ G04'35 24° \ 55' \ G06'00 0° \ \ \ \ \ 0° \ \ \ \ 0° \ \ \ \ 0° \ \ \ \	1°24'19 1.45514 AU -0.7m 19°19'57 3°21'34 3°21'25 0.66712 AU 25°56'43 1.35441 AU -0°26'51 0°26'45	minimum elong max. Earth dist. evening rise 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 evening rise evening max el	8762 Feb 14 17:06 8762 Feb 16 03:31 8762 Feb 20 01:36 8762 Mar 02 18:23 8762 Mar 07 09:55 8762 Mar 28 16:03 8762 Apr 30 08:11 8762 Apr 07 05:10 8762 Apr 11 03:14 8762 Apr 15 14:01 8762 Apr 16 10:59 8762 Apr 16 09:36 8762 Apr 17 05:25 8762 Apr 27 07:58 8762 Apr 27 07:58 8762 May 07 23:23 8762 May 08 18:36 8762 May 11 16:40 8762 Jun 02 08:07 8762 Jun 13 14:51 8762 Jun 17 05:57 8762 Jun 19 20:39 8762 Jun 24 02:50 8762 Jun 24 06:31 8762 Jun 30 09:35 8762 Jul 02 17:30 8762 Jul 05 04:30 8762 Jul 05 04:30 8762 Jul 19 10:42	27°≈41'18 0°	0°41'33 1.44893 AU 20°17'37 3°11'26 3°11'10 0.67740 AU 24°32'56 1.37504 AU -0°59'00 0°58'36

	07/0 4 02 22 22	250 0 10124			07/2 1 1 10 00 51	00 0 20150	
desc. node	8762 Aug 03 22:33	25° Ω 10′24		retrograde	8763 Jul 10 08:51	8° Ω 32'59	
inferior conj	8762 Aug 08 01:56	22° Ω 38'17		evening set	8763 Jul 12 11:09	8°Ω17'05	
minimum elong	8762 Aug 07 22:33	22° Ω 43'55		inferior conj	8763 Jul 20 04:58	3° Ω 48'39	0°28'55
min. Earth dist.	8762 Aug 10 18:34	20° Ω 51'30	0.55925 AU	minimum elong	8763 Jul 20 06:01	3° Ω 46'37	0°28'20
morning rise	8762 Aug 16 05:38	17° Ω 57'36		desc. node	8763 Jul 21 19:39	2° Ω 33'10	
direct	8762 Aug 21 07:23	16° Ω 58'40		min. Earth dist.	8763 Jul 23 12:40	1° Ω 15′07	0.57711 AU
morning max el	8762 Sep 04 10:26	24° Ω 08′10	25°26'57		8763 Jul 25 07:34	30° Ŗ ∽	
	8762 Sep 09 19:13	0° m)		morning rise	8763 Jul 27 21:20	28° © 30'58	
asc. node	8762 Sep 26 09:19	26° Mp 36'31		direct	8763 Aug 02 18:19	27° © 03'23	
	8762 Sep 28 02:06	0∘ ⊽			8763 Aug 11 09:53	$0^{\circ}\Omega$	
morning set	8762 Oct 01 10:46	7° ჲ 00'03		morning max el	8763 Aug 17 03:16	4° Ω 40′23	26°50'41
Ç				Ü	8763 Sep 04 15:40	0° m)	
superior conj	8762 Oct 08 07:23	21° Ω 59'51	1°34'39	asc. node	8763 Sep 13 06:15	16° Mp 15'02	
minimum elong	8762 Oct 08 05:53		1°34'36	morning set	8763 Sep 15 20:31	21° mp 39'10	
max. Earth dist.	8762 Oct 08 05:33 8762 Oct 09 14:23	24° £ 50'16	1.32171 AU	morning set	8763 Sep 19 17:03	0° ⊽	
max. Earm dist.	8762 Oct 03 14:23 8762 Oct 11 23:20	0°M	1.321/1 AU		8703 Sep 19 17.03	0 ==	
					07/2 C 22 10 02	60 0 40140	1000101
evening rise	8762 Oct 15 09:42	7°M15'38		superior conj	8763 Sep 22 19:03	6° Ω 49'48	1°23'21
	8762 Oct 27 11:44	0° ∡		minimum elong	8763 Sep 22 16:58	6° Ω 38'13	1°23'06
desc. node	8762 Oct 30 21:11	5° ∡ 31'56		max. Earth dist.	8763 Sep 22 23:27	7° ≏ 14'12	1.31675 AU
evening max el	8762 Nov 16 20:29	27° ∡ 16'17	27°26'10	evening rise	8763 Sep 29 15:00	21° ≏ 44'59	
	8762 Nov 20 00:03	0°₹			8763 Oct 03 15:18	0°M	
retrograde	8762 Nov 30 15:50	4° る 32'03		desc. node	8763 Oct 17 18:17	24°M28'39	
evening set	8762 Dec 07 18:00	2° る 08'33			8763 Oct 21 17:29	0° ∡ ¹	
	8762 Dec 10 12:44	30°Ŗ ⋌ ¹		evening max el	8763 Oct 30 00:38	9° ∡ ¹25'42	26°54'07
min. Earth dist.	8762 Dec 11 10:22	29° ∡ 12'13	0.62297 AU	retrograde	8763 Nov 12 22:36	16° ∡ ³35′21	
inferior conj	8762 Dec 14 08:25	26° ∡ ¹28'39	-2°54'38	evening set	8763 Nov 19 19:58	14° ∡ ³33′05	
minimum elong	8762 Dec 14 14:00	26° ₹ 15'33		min. Earth dist.	8763 Nov 23 15:03	11° х 54'39	0.60227 AU
morning rise	8762 Dec 21 12:14	21°×723'26	2 32 20	inferior conj	8763 Nov 26 19:14	9° ∡ 18'29	
asc. node	8762 Dec 23 08:52	21° x 2320 21° x 01'14		minimum elong	8763 Nov 27 02:32	9°×703'28	4°02'04
	8762 Dec 23 18:37			morning rise		4°×733'51	4 02 04
direct		21°×700'29	17040152		8763 Dec 04 11:33		
morning max el	8762 Dec 30 13:43	24° ₹ 28'07	17°48'53	direct	8763 Dec 06 16:01	4° √ 15'36	
	8763 Jan 04 01:51	0°る		asc. node	8763 Dec 10 05:53	5° ₹ 06'55	
morning set	8763 Jan 15 10:25	19° る 05'16		morning max el	8763 Dec 14 03:06	7° ∡ ′57'51	18°05'26
	8763 Jan 21 14:36	0° ≈			8763 Dec 28 07:21	0°ප	
				morning set	8763 Dec 29 19:06	2° る 46'26	
superior conj							
superior conj	8763 Jan 26 17:32	8° ≈ 48′01	0°00'54				
minimum elong	8763 Jan 26 17:32 8763 Jan 26 17:38	8°≈48'01 8°≈48'27	0°00'54 0°01'04	superior conj	8764 Jan 08 14:00	20° ප් 46'07	0°37'54
				superior conj minimum elong	8764 Jan 08 14:00 8764 Jan 08 16:46	20°පි46'07 20°පි58'28	0°37'54 0°37'42
minimum elong	8763 Jan 26 17:38	8° ≈ 48′27		1			
minimum elong behind sun begin	8763 Jan 26 17:38 8763 Jan 26 08:48	8°≈48'27 8°≈11'06		minimum elong	8764 Jan 08 16:46	20° る 58'28	
minimum elong behind sun begin behind sun end	8763 Jan 26 17:38 8763 Jan 26 08:48 8763 Jan 27 02:27 8763 Jan 26 20:26	8°≈48'27 8°≈11'06 9°≈25'42		minimum elong desc. node	8764 Jan 08 16:46 8764 Jan 13 17:23	20°ප58'28 29°ප44'59 0°≈	0°37'42
minimum elong behind sun begin behind sun end desc. node	8763 Jan 26 17:38 8763 Jan 26 08:48 8763 Jan 27 02:27 8763 Jan 26 20:26 8763 Feb 02 17:49	8°≈48'27 8°≈11'06 9°≈25'42 9°≈00'18 20°≈23'39	0°01'04	minimum elong desc. node max. Earth dist.	8764 Jan 08 16:46 8764 Jan 13 17:23 8764 Jan 13 20:54 8764 Jan 16 05:11	20°♂58'28 29°♂44'59 0°≈ 3°≈57'58	
minimum elong behind sun begin behind sun end desc. node max. Earth dist.	8763 Jan 26 17:38 8763 Jan 26 08:48 8763 Jan 27 02:27 8763 Jan 26 20:26 8763 Feb 02 17:49 8763 Feb 08 18:46	8°≈48'27 8°≈11'06 9°≈25'42 9°≈00'18 20°≈23'39 0°¥	0°01'04	minimum elong desc. node	8764 Jan 08 16:46 8764 Jan 13 17:23 8764 Jan 13 20:54 8764 Jan 16 05:11 8764 Jan 21 12:01	20°♂58'28 29°♂44'59 0°≈ 3°≈57'58 12°≈38'08	0°37'42
minimum elong behind sun begin behind sun end desc. node	8763 Jan 26 17:38 8763 Jan 26 08:48 8763 Jan 27 02:27 8763 Jan 26 20:26 8763 Feb 02 17:49 8763 Feb 08 18:46 8763 Feb 10 07:56	8°≈48'27 8°≈11'06 9°≈25'42 9°≈00'18 20°≈23'39 0° € 2° € 24'53	0°01'04	minimum elong desc. node max. Earth dist. evening rise	8764 Jan 08 16:46 8764 Jan 13 17:23 8764 Jan 13 20:54 8764 Jan 16 05:11 8764 Jan 21 12:01 8764 Feb 01 17:56	20°♂58'28 29°♂44'59 0°≈ 3°≈57'58 12°≈38'08 0°升	0°37'42 1.41802 AU
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise	8763 Jan 26 17:38 8763 Jan 26 08:48 8763 Jan 27 02:27 8763 Jan 26 20:26 8763 Feb 02 17:49 8763 Feb 08 18:46 8763 Feb 10 07:56 8763 Feb 28 22:09	8°≈48'27 8°≈11'06 9°≈25'42 9°≈00'18 20°≈23'39 0° ¥ 2° ¥24'53 0° ♀	0°01′04 1.43607 AU	minimum elong desc. node max. Earth dist.	8764 Jan 08 16:46 8764 Jan 13 17:23 8764 Jan 13 20:54 8764 Jan 16 05:11 8764 Jan 21 12:01 8764 Feb 01 17:56 8764 Feb 23 22:45	20°♂58'28 29°♂44'59 0°≈ 3°≈57'58 12°≈38'08 0°升 29°升10'46	0°37'42 1.41802 AU
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el	8763 Jan 26 17:38 8763 Jan 26 08:48 8763 Jan 27 02:27 8763 Jan 26 20:26 8763 Feb 02 17:49 8763 Feb 08 18:46 8763 Feb 10 07:56 8763 Feb 28 22:09 8763 Mar 13 05:46	8°≈48'27 8°≈11'06 9°≈25'42 9°≈00'18 20°≈23'39 0° \ 2° \ ★24'53 0° \ 15° \ 28'07	0°01′04 1.43607 AU	minimum elong desc. node max. Earth dist. evening rise evening max el	8764 Jan 08 16:46 8764 Jan 13 17:23 8764 Jan 13 20:54 8764 Jan 16 05:11 8764 Jan 21 12:01 8764 Feb 01 17:56 8764 Feb 23 22:45 8764 Feb 24 18:48	20°♂58'28 29°♂44'59 0°≈ 3°≈57'58 12°≈38'08 0°升 29°升10'46 0°°	0°37'42 1.41802 AU
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node	8763 Jan 26 17:38 8763 Jan 26 08:48 8763 Jan 27 02:27 8763 Jan 26 20:26 8763 Feb 02 17:49 8763 Feb 08 18:46 8763 Feb 10 07:56 8763 Feb 28 22:09 8763 Mar 13 05:46 8763 Mar 21 07:43	8°≈48'27 8°≈11'06 9°≈25'42 9°≈00'18 20°≈23'39 0°¥ 2°¥24'53 0°Y 15°Y28'07 20°Y40'20	0°01′04 1.43607 AU	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde	8764 Jan 08 16:46 8764 Jan 13 17:23 8764 Jan 13 20:54 8764 Jan 16 05:11 8764 Jan 21 12:01 8764 Feb 01 17:56 8764 Feb 23 22:45 8764 Feb 24 18:48 8764 Mar 04 23:43	20°♂58'28 29°♂44'59 0°≈ 3°≈57'58 12°≈38'08 0°升 29°升10'46 0°♀ 5°♀07'47	0°37'42 1.41802 AU
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde	8763 Jan 26 17:38 8763 Jan 26 08:48 8763 Jan 27 02:27 8763 Jan 26 20:26 8763 Feb 02 17:49 8763 Feb 08 18:46 8763 Feb 10 07:56 8763 Feb 28 22:09 8763 Mar 13 05:46 8763 Mar 21 07:43 8763 Mar 22 03:28	8°≈48'27 8°≈11'06 9°≈25'42 9°≈00'18 20°≈23'39 0°¥ 2°¥24'53 0°Y 15°Y28'07 20°Y40'20 20°Y43'46	0°01′04 1.43607 AU	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node	8764 Jan 08 16:46 8764 Jan 13 17:23 8764 Jan 13 20:54 8764 Jan 16 05:11 8764 Jan 21 12:01 8764 Feb 01 17:56 8764 Feb 23 22:45 8764 Feb 24 18:48 8764 Mar 04 23:43 8764 Mar 07 04:49	20°♂58'28 29°♂44'59 0°≈ 3°≈57'58 12°≈38'08 0°¥ 29°¥10'46 0°Y 5°Y07'47 4°Y43'22	0°37'42 1.41802 AU
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set	8763 Jan 26 17:38 8763 Jan 26 08:48 8763 Jan 27 02:27 8763 Jan 26 20:26 8763 Feb 02 17:49 8763 Feb 08 18:46 8763 Feb 10 07:56 8763 Feb 28 22:09 8763 Mar 13 05:46 8763 Mar 21 07:43 8763 Mar 22 03:28 8763 Mar 26 11:28	8°≈48'27 8°≈11'06 9°≈25'42 9°≈00'18 20°≈23'39 0°¥ 2°¥24'53 0°° 15°°¥28'07 20°°¥40'20 20°°¥43'46 18°°¥59'48	0°01'04 1.43607 AU 21°27'42	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde	8764 Jan 08 16:46 8764 Jan 13 17:23 8764 Jan 13 20:54 8764 Jan 16 05:11 8764 Jan 21 12:01 8764 Feb 01 17:56 8764 Feb 23 22:45 8764 Feb 24 18:48 8764 Mar 04 23:43 8764 Mar 07 04:49 8764 Mar 09 18:53	20°♂58'28 29°♂44'59 0°≈ 3°≈57'58 12°≈38'08 0°¥ 29°¥10'46 0°° 5°°\$07'47 4°°\$43'22 3°\$\$08'58	0°37'42 1.41802 AU
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj	8763 Jan 26 17:38 8763 Jan 26 08:48 8763 Jan 27 02:27 8763 Jan 26 20:26 8763 Feb 02 17:49 8763 Feb 08 18:46 8763 Feb 10 07:56 8763 Feb 28 22:09 8763 Mar 13 05:46 8763 Mar 21 07:43 8763 Mar 22 03:28 8763 Mar 26 11:28 8763 Mar 31 18:42	8°≈48'27 8°≈11'06 9°≈25'42 9°≈00'18 20°≈23'39 0°¥ 2°¥24'53 0°° 15°°¥28'07 20°°¥40'20 20°°¥43'46 18°°¥59'48 12°°¥43'43	0°01'04 1.43607 AU 21°27'42 2°50'36	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set	8764 Jan 08 16:46 8764 Jan 13 17:23 8764 Jan 13 20:54 8764 Jan 16 05:11 8764 Jan 21 12:01 8764 Feb 01 17:56 8764 Feb 23 22:45 8764 Feb 24 18:48 8764 Mar 04 23:43 8764 Mar 07 04:49 8764 Mar 09 18:53 8764 Mar 12 17:35	20°♂58'28 29°♂44'59 0°≈ 3°≈57'58 12°≈38'08 0°¥ 29°¥10'46 0°° 5°°¥07'47 4°¥43'22 3°¥08'58 30°R¥	0°37'42 1.41802 AU 22°45'44
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong	8763 Jan 26 17:38 8763 Jan 26 08:48 8763 Jan 27 02:27 8763 Jan 26 20:26 8763 Feb 02 17:49 8763 Feb 08 18:46 8763 Feb 10 07:56 8763 Feb 28 22:09 8763 Mar 13 05:46 8763 Mar 21 07:43 8763 Mar 22 03:28 8763 Mar 26 11:28 8763 Mar 31 18:42 8763 Mar 31 16:41	8°≈48'27 8°≈11'06 9°≈25'42 9°≈00'18 20°≈23'39 0° ¥ 2° ¥24'53 0° Y 15°Y28'07 20°Y40'20 20°Y43'46 18°Y59'48 12°Y43'43 12°Y50'44	0°01'04 1.43607 AU 21°27'42 2°50'36 2°50'08	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj	8764 Jan 08 16:46 8764 Jan 13 17:23 8764 Jan 13 20:54 8764 Jan 16 05:11 8764 Jan 21 12:01 8764 Feb 01 17:56 8764 Feb 23 22:45 8764 Feb 24 18:48 8764 Mar 04 23:43 8764 Mar 07 04:49 8764 Mar 09 18:53 8764 Mar 12 17:35 8764 Mar 15 03:30	20°♂58'28 29°♂44'59 0°≈ 3°≈57'58 12°≈38'08 0°¥ 29°¥10'46 0°° 5°°Y07'47 4°°Y43'22 3°°Y08'58 30°°R,₩ 26°¥44'53	0°37'42 1.41802 AU 22°45'44 2°20'17
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj	8763 Jan 26 17:38 8763 Jan 26 08:48 8763 Jan 27 02:27 8763 Jan 26 20:26 8763 Feb 02 17:49 8763 Feb 08 18:46 8763 Feb 10 07:56 8763 Feb 28 22:09 8763 Mar 13 05:46 8763 Mar 21 07:43 8763 Mar 22 03:28 8763 Mar 26 11:28 8763 Mar 31 18:42	8°≈48'27 8°≈11'06 9°≈25'42 9°≈00'18 20°≈23'39 0° ¥ 2° ¥24'53 0° ¥ 15° ¥28'07 20° ¥40'20 20° ¥43'46 18° ¥59'48 12° ¥43'43 12° ¥50'44 12° ¥25'10	0°01'04 1.43607 AU 21°27'42 2°50'36	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong	8764 Jan 08 16:46 8764 Jan 13 17:23 8764 Jan 13 20:54 8764 Jan 16 05:11 8764 Jan 21 12:01 8764 Feb 01 17:56 8764 Feb 23 22:45 8764 Feb 24 18:48 8764 Mar 04 23:43 8764 Mar 07 04:49 8764 Mar 09 18:53 8764 Mar 12 17:35	20°♂58'28 29°♂44'59 0°≈ 3°≈57'58 12°≈38'08 0°¥ 29°¥10'46 0°° 5°°Y07'47 4°°Y43'22 3°°Y08'58 30°R¥ 26°¥44'53 26°¥52'40	0°37'42 1.41802 AU 22°45'44
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong	8763 Jan 26 17:38 8763 Jan 26 08:48 8763 Jan 27 02:27 8763 Jan 26 20:26 8763 Feb 02 17:49 8763 Feb 08 18:46 8763 Feb 10 07:56 8763 Feb 28 22:09 8763 Mar 13 05:46 8763 Mar 21 07:43 8763 Mar 22 03:28 8763 Mar 26 11:28 8763 Mar 31 18:42 8763 Mar 31 16:41	8°≈48'27 8°≈11'06 9°≈25'42 9°≈00'18 20°≈23'39 0° ¥ 2° ¥24'53 0° Y 15°Y28'07 20°Y40'20 20°Y43'46 18°Y59'48 12°Y43'43 12°Y50'44	0°01'04 1.43607 AU 21°27'42 2°50'36 2°50'08	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj	8764 Jan 08 16:46 8764 Jan 13 17:23 8764 Jan 13 20:54 8764 Jan 16 05:11 8764 Jan 21 12:01 8764 Feb 01 17:56 8764 Feb 23 22:45 8764 Feb 24 18:48 8764 Mar 04 23:43 8764 Mar 07 04:49 8764 Mar 09 18:53 8764 Mar 12 17:35 8764 Mar 15 03:30	20°♂58'28 29°♂44'59 0°≈ 3°≈57'58 12°≈38'08 0°¥ 29°¥10'46 0°° 5°°Y07'47 4°°Y43'22 3°°Y08'58 30°°R,₩ 26°¥44'53	0°37'42 1.41802 AU 22°45'44 2°20'17
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minimum elong behind sun begin behind sun end desc. node 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 inferior conj minimum elong	8763 Jan 26 17:38 8763 Jan 26 08:48 8763 Jan 27 02:27 8763 Jan 26 20:26 8763 Feb 02 17:49 8763 Feb 08 18:46 8763 Feb 10 07:56 8763 Feb 28 22:09 8763 Mar 13 05:46 8763 Mar 21 07:43 8763 Mar 22 03:28 8763 Mar 26 11:28 8763 Mar 31 18:42 8763 Mar 31 16:41 8763 Apr 01 00:02 8763 Apr 05 21:43 8763 Apr 11 00:17 8763 Apr 21 04:28 8763 Apr 21 04:28 8763 May 26 02:50 8763 May 30 02:13 8763 Jun 06 19:22 8763 Jun 07 00:53 8763 Jun 07 00:53 8763 Jun 11 21:34	8°≈48'27 8°≈11'06 9°≈25'42 9°≈00'18 20°≈23'39 0° ★ 2° ★24'53 0° ♀ 15° ♀28'07 20° ♀40'20 20° ♀43'43 12° ♀50'44 12° ♀25'10 6° ♀30'20 4° ♀16'45 10° ♀18'59 14° ♀19'08 0° ₺ 29° ₺25'00 0° Ⅱ 6° Ⅱ44'21 20° Ⅱ28'32 20° Ⅱ53'54 0° €	0°01'04 1.43607 AU 21°27'42 2°50'36 2°50'08 0.68318 AU 23°03'08 1.39754 AU -1°30'01	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	8764 Jan 08 16:46 8764 Jan 13 17:23 8764 Jan 13 20:54 8764 Jan 16 05:11 8764 Jan 21 12:01 8764 Feb 01 17:56 8764 Feb 23 22:45 8764 Feb 24 18:48 8764 Mar 04 23:43 8764 Mar 09 18:53 8764 Mar 12 17:35 8764 Mar 15 03:30 8764 Mar 15 01:15 8764 Mar 14 20:41 8764 Mar 20 07:30 8764 Mar 20 07:30 8764 Mar 20 17:56 8764 Apr 02 17:56 8764 Apr 08 02:28 8764 Apr 10 17:16 8764 May 04 18:41 8764 May 11 02:34 8764 May 17 13:16	20° ₹58'28 29° ₹44'59 0° ≈ 3° ≈57'58 12° ≈38'08 0° ¥ 29° ¥10'46 0° Ŷ 5° Ŷ07'47 4° Ŷ43'22 3° Ŷ08'58 30° ₹ ¥ 26° ¥44'53 26° ¥52'40 27° ¥08'30 20° ¥36'18 18° ¥44'14 23° ¥54'57 0° Ŷ 3° Ŷ21'19 0° ₩ 8° ₩ 51'19 19° ₩ 306'48 0° Ⅱ	0°37'42 1.41802 AU 22°45'44 2°20'17 2°19'39 0.68467 AU 21°36'30 1.41926 AU -1°55'49
minimum elong behind sun begin behind sun end desc. node 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 inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	8763 Jan 26 17:38 8763 Jan 26 08:48 8763 Jan 27 02:27 8763 Jan 26 20:26 8763 Feb 02 17:49 8763 Feb 08 18:46 8763 Feb 10 07:56 8763 Feb 28 22:09 8763 Mar 13 05:46 8763 Mar 21 07:43 8763 Mar 22 03:28 8763 Mar 26 11:28 8763 Mar 31 18:42 8763 Mar 31 16:41 8763 Apr 01 00:02 8763 Apr 05 21:43 8763 Apr 11 00:17 8763 Apr 21 04:28 8763 Apr 21 04:28 8763 Mar 25 18:26 8763 Mar 26 17:47 8763 Apr 27 05:20 8763 Apr 28 20:20 8763 Apr 29 20:20 8763 Apr 29 20:20 8763 Apr 29 20:20 8763 May 26 02:50 8763 May 30 02:13	8°≈48'27 8°≈11'06 9°≈25'42 9°≈00'18 20°≈23'39 0° € 2° € € 24'53 0° ♀ 15° ♀ 28'07 20° ♀ 40'20 20° ♀ 43'43 12° ♀ 50'44 12° ♀ 50'44 12° ♀ 50'44 12° ♀ 16'45 10° ♀ 18'59 14° ♀ 19'08 0° ₺ 29° ₺ 25'00 0° Ⅱ 6° Ⅱ 44'21 20° Ⅱ 28'32 20° Ⅱ 53'54 0° ⑤ 8° ⑤ 43'41	0°01'04 1.43607 AU 21°27'42 2°50'36 2°50'08 0.68318 AU 23°03'08 1.39754 AU -1°30'01	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	8764 Jan 08 16:46 8764 Jan 13 17:23 8764 Jan 13 20:54 8764 Jan 16 05:11 8764 Jan 21 12:01 8764 Feb 01 17:56 8764 Feb 23 22:45 8764 Feb 24 18:48 8764 Mar 04 23:43 8764 Mar 09 18:53 8764 Mar 12 17:35 8764 Mar 15 03:30 8764 Mar 15 01:15 8764 Mar 14 20:41 8764 Mar 20 07:30 8764 Mar 20 07:30 8764 Mar 20 17:56 8764 Apr 02 17:56 8764 Apr 08 02:28 8764 Apr 10 17:16 8764 Apr 29 02:52 8764 May 04 18:41 8764 May 11 02:34 8764 May 17 13:16	20°\dags 58'28 29°\dags 44'59 0°\dags 3°\dags 57'58 12°\dags 38'08 0°\dags 29°\dags 10'46 0°\gamma 5°\gamma'07'47 4°\gamma'3'22 3°\gamma'08'58 30°\dags \dags 22'40 27°\dags 30'8\dags 20°\dags 36'18 18°\dags 44'14 23°\dags 36'18 18°\dags 44'14 23°\dags 54'57 0°\gamma 3°\gamma'21'19 0°\dags 8°\dags 51'19 19°\dags 306'48 0°\dags 11'\dags 157'12 2°\dags 122'09	0°37'42 1.41802 AU 22°45'44 2°20'17 2°19'39 0.68467 AU 21°36'30 1.41926 AU -1°55'49
minimum elong behind sun begin behind sun end desc. node 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 inferior conj minimum elong	8763 Jan 26 17:38 8763 Jan 26 08:48 8763 Jan 27 02:27 8763 Jan 26 20:26 8763 Feb 02 17:49 8763 Feb 08 18:46 8763 Feb 10 07:56 8763 Feb 28 22:09 8763 Mar 13 05:46 8763 Mar 21 07:43 8763 Mar 22 03:28 8763 Mar 26 11:28 8763 Mar 31 18:42 8763 Mar 31 16:41 8763 Apr 01 00:02 8763 Apr 05 21:43 8763 Apr 11 00:17 8763 Apr 21 04:28 8763 Apr 21 04:28 8763 Apr 24 20:20 8763 Apr 24 20:20 8763 May 06 17:47 8763 May 26 02:50 8763 May 30 02:13 8763 Jun 06 19:22 8763 Jun 07 00:53 8763 Jun 11 21:34 8763 Jun 16 11:07 8763 Jun 17 06:37	8°≈48'27 8°≈11'06 9°≈25'42 9°≈00'18 20°≈23'39 0° € 2° € € 24'53 0° ♥ 15° ♥ 28'07 20° ♥ 40'20 20° ♥ 43'46 18° ♥ 59'48 12° ♥ 63'43 12° ♥ 63'44 12° ♥ 25'10 6° ₱ 30'20 4° ₱ 16'45 10° ₱ 18'59 14° ₱ 19'08 0° ₺ 29° ₺ 25'00 0° 耳 6° 耳 44'21 20° 耳 28'32 20° 耳 53'54 0° © 8° € 43'41 10° € 16'57	0°01'04 1.43607 AU 21°27'42 2°50'36 2°50'08 0.68318 AU 23°03'08 1.39754 AU -1°30'01	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	8764 Jan 08 16:46 8764 Jan 13 17:23 8764 Jan 13 20:54 8764 Jan 16 05:11 8764 Jan 21 12:01 8764 Feb 01 17:56 8764 Feb 23 22:45 8764 Feb 24 18:48 8764 Mar 04 23:43 8764 Mar 09 18:53 8764 Mar 12 17:35 8764 Mar 15 03:30 8764 Mar 15 01:15 8764 Mar 14 20:41 8764 Mar 20 07:30 8764 Mar 20 07:30 8764 Mar 20 17:56 8764 Apr 02 17:56 8764 Apr 02 17:56 8764 Apr 08 02:28 8764 Apr 10 17:16 8764 Apr 29 02:52 8764 May 14 18:41 8764 May 17 13:16 8764 May 18 16:19 8764 May 18 16:19 8764 May 29 16:22	20°\(558'28\) 29°\(544'59\) 0°\(83'\) \(857'58\) 12°\(838'08\) 0°\(\tau\) 29°\(\tau\) 10'46 0°\(\tau\) 5°\(\tau\) 07'47 4°\(\tau\) 43'22 3°\(\tau\) 08'58 30°\(\tau\) 20°\(\tau\) 30'\(\tau\) 21'\(\tau\) 08'\(\tau\) 20°\(\tau\) 36'\(\tau\) 18'\(\tau\) 44'\(\tau\) 10°\(\tau\) 3°\(\tau\) 21'\(\tau\) 19'\(\tau\) 30'\(\tau\) 19'\(\tau\) 19'\(\tau\) 30'\(\tau\) 11'\(\tau\) 12'\(\tau\) 20'\(\tau\) 21'\(\tau\) 12'\(\tau\) 21'\(\tau\) 12'\(\tau\) 21'\(\tau\) 14'\(\tau	0°37'42 1.41802 AU 22°45'44 2°20'17 2°19'39 0.68467 AU 21°36'30 1.41926 AU -1°55'49
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	9764 I.m. 14 22.51	1796-27120	10000142		8765 Jun 07 15:59	20622100	
evening max el	8764 Jun 14 22:51	17°527'29	18°09'43	evening set		3°522'09	
retrograde	8764 Jun 21 20:15	20°956'45			8765 Jun 12 05:35	30°ŖⅡ	2010155
evening set	8764 Jun 24 06:16	20° © 31'32		inferior conj	8765 Jun 13 23:54	28° Ⅲ 13'33	2°40'57
inferior conj	8764 Jul 01 05:22	15° © 42'35	1°48'28	minimum elong	8765 Jun 14 02:38	28° Ⅱ 06'29	2°40'07
minimum elong	8764 Jul 01 08:15	15° © 36'03	1°47'21	min. Earth dist.	8765 Jun 16 22:35	25° Ⅱ 11'45	0.62144 AU
min. Earth dist.	8764 Jul 04 13:27	12° © 42'54	0.59898 AU	morning rise	8765 Jun 20 11:21	22° Ⅱ 08'09	
desc. node	8764 Jul 07 16:43	10°9518'50		desc. node	8765 Jun 24 13:46	20° ∏ 04'48	
morning rise	8764 Jul 08 07:19	9° © 55'49		direct	8765 Jun 27 05:01	19° Ⅱ 43'01	
direct	8764 Jul 14 18:28	7°\$56'58		morning max el	8765 Jul 11 08:15	27° ∏ 44'36	27°55'34
morning max el	8764 Jul 29 02:42	15° © 50'39	27°42'04		8765 Jul 13 11:59	0ಂಣ	
<i>y</i>	8764 Aug 09 16:08	$0^{\circ}\Omega$			8765 Aug 03 10:20	$0^{\circ}\Omega$	
	8764 Aug 27 03:18	0° mp		morning set	8765 Aug 14 03:30	20° Ω 12'55	
morning set	8764 Aug 30 02:45	6°Mp05'18		asc. node	8765 Aug 17 00:07	26° Ω 09'00	
•	-			asc. node	-		
asc. node	8764 Aug 30 03:11	6° Mp 07'35	1.01640.477	F 4 F	8765 Aug 18 19:30	0° m	1 22000 177
max. Earth dist.	8764 Sep 05 09:12	19° m 37'39	1.31648 AU	max. Earth dist.	8765 Aug 19 15:57	1° m 50'11	1.32089 AU
	0.000	0107 05141	1000150		0.765	60 We 11110	0045145
superior conj	8764 Sep 06 06:32	21°Mp35'41	1°06'56	superior conj	8765 Aug 21 16:01	6°Mp11'48	0°45'45
minimum elong	8764 Sep 06 04:18	21°Mp23'16	1°06'31	minimum elong	8765 Aug 21 14:07	6° Mp 01′28	0°45'18
	8764 Sep 10 01:41	0∘ ⊽		evening rise	8765 Aug 28 11:38	21°Mp05'19	
evening rise	8764 Sep 13 00:18	6° £ 23'33			8765 Sep 01 18:22	0。 ত	
	8764 Sep 25 06:25	0° M		desc. node	8765 Sep 20 12:29	29° £ 21'13	
desc. node	8764 Oct 03 15:23	12°M31'55			8765 Sep 21 03:11	0°M	
evening max el	8764 Oct 10 21:14	20°M44'49	25°49'07	evening max el	8765 Sep 22 10:32	1°M18'22	24°19'10
retrograde	8764 Oct 24 19:24	27°M47'31	, .,	retrograde	8765 Oct 06 04:15	8°M11'48	
evening set	8764 Oct 31 00:56	26°M16'23		evening set	8765 Oct 11 05:21	7°M15'36	
min. Earth dist.		23°M40'29	0.58153 AU	min. Earth dist.		4°M23'51	0.56336 AU
	8764 Nov 04 09:52				8765 Oct 16 21:21		
inferior conj	8764 Nov 07 11:53	21°M28'42		inferior conj	8765 Oct 19 08:17	2°M52'08	
minimum elong	8764 Nov 07 18:33	21°M16'48	5°02'10	minimum elong	8765 Oct 19 10:05	2°M49'20	5°35'43
morning rise	8764 Nov 15 14:28	17°M06'32			8765 Oct 24 10:28	30° Ŗ Ω	
direct	8764 Nov 17 21:43	16° ™ 49'39		morning rise	8765 Oct 27 16:55	28° ≏ 51'26	
asc. node	8764 Nov 26 02:53	20°M40'43		direct	8765 Oct 30 08:26	28° ≏ 32'51	
morning max el	8764 Nov 26 09:09	20°M55'35	18°42'32		8765 Nov 04 20:57	0° M.	
	8764 Dec 03 07:58	0° ∡ ¹		morning max el	8765 Nov 09 04:23	3°M11'41	19°41'50
morning set	8764 Dec 12 15:00	16° ₹ '58'08		asc. node	8765 Nov 12 23:53	7°M28'33	
Č	8764 Dec 19 08:09	8°0			8765 Nov 26 00:34	0° √	
				morning set	8765 Nov 26 18:29	1° ∡ ³30'07	
superior conj	8764 Dec 21 06:57	3° る 41'59	1°06'13	3 3 3 3 3			
minimum elong	8764 Dec 21 10:17	3° る 57'39	1°06'01	superior conj	8765 Dec 04 15:26	17° ∡ *22'11	1°25'40
max. Earth dist.	8764 Dec 28 12:24	16°る51'20	1.39693 AU	minimum elong	8765 Dec 04 18:04	17° × 35'14	
	8764 Dec 30 14:21	10 3 31 20 20° る 28'19	1.39093 AU				1.37524 AU
desc. node				max. Earth dist.	8765 Dec 10 18:33		1.57324 AU
evening rise	8765 Jan 01 13:18	23°₹48'16			8765 Dec 11 05:44	0°る	
	8765 Jan 05 07:05	0° ≈		evening rise	8765 Dec 14 12:00	5° る 54'51	
	8765 Jan 25 14:11	0° ∀		desc. node	8765 Dec 17 11:21	11° る 06'45	
evening max el	8765 Feb 05 12:59	12° ¥ 56′52	24°05'56		8765 Dec 29 05:29	0° ≈	
retrograde	8765 Feb 16 16:35	19°) 29′43		evening max el	8766 Jan 19 02:13	26° ≈ 45′16	25°21'31
evening set	8765 Feb 21 23:57	17° ∺ 16′58			8766 Jan 22 17:48	0° ∀	
asc. node	8765 Feb 22 01:55	17° ₩ 12'45		retrograde	8766 Jan 31 05:05	3°) 44′53	
min. Earth dist.	8765 Feb 26 17:03	11°)(51'07	0.68206 AU	evening set	8766 Feb 06 01:08	1°) €20'04	
inferior conj	8765 Feb 27 11:30	10°) 48'41	1°41'08		8766 Feb 07 11:14	30° R ≈	
minimum elong	8765 Feb 27 09:29	10° ¥ 55'30	1°40'30	asc. node	8766 Feb 08 23:00	28° ≈ 20'21	
morning rise	8765 Mar 04 19:04	4° \(\) 46'29	*	min. Earth dist.	8766 Feb 10 10:54	26°≈29'02	0.67552 AU
direct	8765 Mar 08 18:31	3° ¥ 16'36		inferior conj	8766 Feb 11 16:54	24°≈52'09	0°53'35
morning max el	8765 Mar 16 14:14	7°) 42′24	20°19'52	minimum elong	8766 Feb 11 15:37	24°≈56'15	0°53'13
			20 1932	•			0 33 13
desc. node	8765 Mar 28 14:10	22°) 57′08		morning rise	8766 Feb 17 06:28	18°≈58'01	
	8765 Apr 02 10:16	0° Υ		direct	8766 Feb 20 17:42	17°≈48'54	
morning set	8765 Apr 13 20:43	17° Y 19'34		morning max el	8766 Feb 27 18:36	21°≈41'45	19°17'17
	8765 Apr 21 22:32	0°8			8766 Mar 06 14:37	0° ∀	
max. Earth dist.	8765 Apr 23 10:32	2° 8 23'58	1.43745 AU	greatest brilliancy	8766 Mar 12 19:05	8° ¥ 56'46	-0.7m
				desc. node	8766 Mar 15 11:05	12°) (57′47	
superior conj	8765 Apr 29 13:29	12° 8 22'04	-2°10'44	morning set	8766 Mar 23 20:38	25° ∺ 50′29	
minimum elong	8765 Apr 29 15:56	12° 8 32'13	2°10'49		8766 Mar 26 13:09	$0^{\circ}\Upsilon$	
	8765 May 09 23:11	$\Pi^{\circ}0$		max. Earth dist.	8766 Apr 06 01:15	16° Y 23'49	1.44990 AU
evening rise	8765 May 12 04:37	3° Ⅲ 52′02					
asc. node	8765 May 21 00:41	19° Ⅱ 00'19		superior conj	8766 Apr 09 10:40	21° Y 46'00	-2°08'32
	•	0°9		minimum elong	8766 Apr 09 06:16	21° Y 28'30	
	8/03 May /8 /11.4/						
evening may al	8765 May 28 20:47		18°05'50	minimum clong	-		2 08 28
evening max el retrograde	8765 May 29 11:52 8765 Jun 04 22:24	0°538'43 3°559'16	18°05'59	evening rise	8766 Apr 14 14:03 8766 Apr 23 19:30	0°8 15°806'01	2 00 20

	8766 May 02 20:47	0° I I			8767 Apr 07 08:48	0°8	
asc. node	8766 May 07 21:44	0 Π 7°Π42'53		greatest brilliancy	8767 Apr 13 12:58	9° 8 44'56	-0.8m
evening max el	8766 May 13 01:02	14° ∏ 04'46	18°20'51	asc. node	8767 Apr 24 18:50	25° 8 48'11	-0.6111
retrograde	8766 May 19 10:47	17° I I30'58	10 2031	evening max el	8767 Apr 26 11:42	27° 8 39'26	18°53'34
evening set	8766 May 22 11:41	16° ∏ 40′26		evening max er	8767 Apr 29 05:55	0°II	10 3331
inferior conj	8766 May 28 08:28	11° I I13'54	3°10'28	retrograde	8767 May 03 05:27	1° ∏ 24'04	
minimum elong	8766 May 28 10:06	11° ∏ 09'12		evening set	8767 May 06 13:53	0° Ⅱ 19'11	
min. Earth dist.	8766 May 30 17:07	8° Ⅱ 30'47	0.64200 AU	<u>8</u>	8767 May 07 01:08	30°R ∀	
morning rise	8766 Jun 03 07:26	4° ∏ 58'42		inferior conj	8767 May 12 03:16	24° 8 36'31	3°21'47
direct	8766 Jun 10 00:12	2° Ⅱ 17'11		minimum elong	8767 May 12 03:34	24° 8 35'32	3°21'36
desc. node	8766 Jun 11 10:48	2° Ⅲ 23'58		min. Earth dist.	8767 May 13 20:41	22° 8 26'31	0.65909 AU
morning max el	8766 Jun 23 17:45	10° Ⅱ 17'21	27°32'17	morning rise	8767 May 17 16:41	18° 8 17'50	
	8766 Jul 09 05:08	0 \circ \odot		direct	8767 May 24 02:50	15° 8 31'36	
	8766 Jul 26 20:02	$0^{\circ}\Omega$		desc. node	8767 May 29 07:50	17° 8 00'36	
morning set	8766 Jul 28 20:17	3° Ω 54'49		morning max el	8767 Jun 06 04:26	23° 8 17'30	26°38'17
max. Earth dist.	8766 Aug 02 15:42	13° Ω 40′39	1.33010 AU		8767 Jun 12 03:15	$\Pi^{\circ}0$	
asc. node	8766 Aug 03 21:04	16° Ω 14'33			8767 Jul 02 13:04	0 \circ \odot	
				morning set	8767 Jul 12 02:00	17° © 02'44	
superior conj	8766 Aug 05 21:31	20° Ω 32'01	0°20'16	max. Earth dist.	8767 Jul 16 05:17	25° 5 04'04	1.34418 AU
minimum elong	8766 Aug 05 20:33	20° Ω 26'47	0°19'55		8767 Jul 18 16:11	$0^{\circ}\Omega$	
	8766 Aug 10 06:56	0°Щ					
evening rise	8766 Aug 12 23:05	5° ™ 43'55		superior conj	8767 Jul 20 20:50	4° Ω 30′20	
	8766 Aug 25 20:47	0∘ ত		minimum elong	8767 Jul 20 21:20	4° Ω 32'56	0°08'57
evening max el	8766 Sep 03 22:01	11° ≏ 29'37	22°39'31	behind sun begin	8767 Jul 20 16:28	4° Ω 07'45	
desc. node	8766 Sep 07 09:37	14° £ 28'27		behind sun end	8767 Jul 21 02:12	4° Ω 58'09	
retrograde	8766 Sep 17 00:58	18° Ω 02'34		asc. node	8767 Jul 21 18:02	6° Ω 20'27	
evening set	8766 Sep 20 13:47	17° Ω 35'08	0.55001.441	evening rise	8767 Jul 28 08:44	20° Ω 13'52	
min. Earth dist.	8766 Sep 28 05:32	14° £ 10'12	0.55081 AU		8767 Aug 02 04:23	0° m/y	21006125
inferior conj	8766 Sep 29 10:14	13° Ω 29'22		evening max el	8767 Aug 16 17:01	21° Mp 56'08	21°06'35
minimum elong	8766 Sep 29 04:22	13° Ω 37'43	5°21'09	desc. node	8767 Aug 25 06:45	27° m 22'13	
morning rise direct	8766 Oct 07 20:53 8766 Oct 11 01:00	9° ≙ 41'17 9° ≙ 18'16		retrograde	8767 Aug 28 13:46	27° m 48'59	
morning max el	8766 Oct 22 10:36	9 ≗ 18 10 14° ≗ 38'56	21°03'20	evening set inferior conj	8767 Aug 30 21:32 8767 Sep 09 02:54	27° m/36'19 23° m/39'35	4012123
asc. node	8766 Oct 30 20:51	25° £ 14'14	21 03 20	minimum elong	8767 Sep 08 17:15	23° m 53'12	
asc. Houc	8766 Nov 02 17:56	0°M		min. Earth dist.	8767 Sep 09 14:18	23° m 23'29	0.54668 AU
morning set	8766 Nov 11 02:44	16°ML13'28		morning rise	8767 Sep 17 13:26	19° m 45'22	0.54000 AC
morning sec	8766 Nov 17 16:59	0° ₹		direct	8767 Sep 21 09:09	19° m 13'58	
	0,001.01.17.10.05	• ••		morning max el	8767 Oct 04 05:14	25° m) 21'17	22°42'38
superior conj	8766 Nov 18 11:00	1° × 33'11	1°36'59	morning man er	8767 Oct 08 12:57	0° ⊽	-2 .230
minimum elong	8766 Nov 18 12:26	1° х 40′33	1°37'05	asc. node	8767 Oct 17 17:51	13° ≏ 44'27	
max. Earth dist.	8766 Nov 23 03:53	11° ∡ ¹02'50	1.35531 AU		8767 Oct 26 01:49	0°M	
evening rise	8766 Nov 27 04:56	18° ҂ ¹49'03		morning set	8767 Oct 26 13:39	1°M02'15	
C	8766 Dec 03 10:09	8°0		C			
desc. node	8766 Dec 04 08:22	1° る 35'13		superior conj	8767 Nov 02 14:16	16°M05'05	1°41'02
	8766 Dec 23 09:09	0° ≈		minimum elong	8767 Nov 02 14:24	16°M05'48	1°41'11
evening max el	8767 Jan 01 15:21	10° ≈ 30′23	26°25'26	max. Earth dist.	8767 Nov 05 20:34	22°M57'20	1.33886 AU
retrograde	8767 Jan 14 12:33	17°≈46′10			8767 Nov 09 07:38	0° ∡ ¹	
evening set	8767 Jan 20 20:42	15° ≈ 12'59		evening rise	8767 Nov 10 12:18	2° х 21′39	
min. Earth dist.	8767 Jan 25 00:03	10° ≈ 56'33	0.66511 AU	desc. node	8767 Nov 21 05:24	21° х 48'34	
inferior conj	8767 Jan 26 17:40	8° ≈ 50'38			8767 Nov 26 07:46	0°ಕ	
minimum elong	8767 Jan 26 17:43	8° ≈ 50′29	0°01'49	evening max el	8767 Dec 15 04:25	24° る 04'39	27°10'23
transit middle	8767 Jan 26 17:43	8°≈50'29	0°01'49		8767 Dec 23 02:52	0° ≈	
transit begin	8767 Jan 26 14:51	8°≈59'13		retrograde	8767 Dec 28 14:14	1°≈25'57	
transit end	8767 Jan 26 20:36	8°≈41'47			8768 Jan 02 15:17	30°Rる	
asc. node	8767 Jan 26 20:06	8°≈43'16		evening set	8768 Jan 04 08:33	28°る50'12	0.65112.411
morning rise	8767 Feb 01 15:35	3°≈06'38		min. Earth dist.	8768 Jan 08 06:21	25°る07'28 22°る39'27	0.65113 AU
direct	8767 Feb 04 16:04	2°≈15'20 5°≈47'54	10020120	inferior conj	8768 Jan 10 11:37 8768 Jan 10 13:33	22° る 39'27	
morning max el	8767 Feb 11 05:53 8767 Feb 28 06:27	5°≈47'54 0° 米	18°30'38	minimum elong asc. node	8768 Jan 10 13:33 8768 Jan 13 17:13	22° 5 34'04 19° 5 18'36	1 03 30
desc. node	8767 Feb 28 06:27 8767 Mar 02 08:00	3° ∺ 16'05		morning rise	8768 Jan 16 19:58	19° ろ 1836 17° ろ 07'57	
morning set	8767 Mar 02 08:00 8767 Mar 03 17:07	5° ∺ 27'13		direct	8768 Jan 19 11:31	17 80737 16° る 30'41	
morning set	8767 Mar 19 07:38	5 χ 2/13		morning max el	8768 Jan 25 21:42	10 33041 19° る 54'07	18°00'40
	0,0, mai 1, 07.30	V 1		morning max CI	8768 Feb 02 14:17	19° ≈	10 00 70
superior conj	8767 Mar 19 16:56	0° Υ 36'25	-1°46'08	morning set	8768 Feb 12 19:04	0 ~ 16° ≈ 31'48	
minimum elong	8767 Mar 19 10:30	29°) 59'34		desc. node	8768 Feb 17 04:54	23°≈46'43	
max. Earth dist.	8767 Mar 19 19:41	0° Υ 47'09	1.45529 AU		8768 Feb 21 00:45	0° ∀	
evening rise	8767 Apr 04 10:45	25° Υ 22'13					
Č		_					

minimum elong	8770 Jan 18 15:26	1° ≈ 12'17	0°17'33		8770 Dec 24 14:30	8°0	
desc. node	8770 Jan 20 22:44	5° ≈ 09'14					
max. Earth dist.	8770 Jan 26 00:07	13° ≈ 35'45	1.42894 AU	superior conj	8770 Dec 31 19:47	13° る 30'24	0°51'00
evening rise	8770 Feb 01 11:40	23° ≈ 59'57		minimum elong	8770 Dec 31 22:59	13° る 45'04	0°50'46
	8770 Feb 05 08:19	0° ℋ		desc. node	8771 Jan 07 19:43	25° る 53'41	
	8770 Feb 26 05:27	0 ° $\mathbf{\Upsilon}$		max. Earth dist.	8771 Jan 08 09:50	26° る 54'07	1.40932 AU
evening max el	8770 Mar 05 14:21	8° Ƴ 38'50	22°00'15		8771 Jan 10 05:46	0° ≈	
retrograde	8770 Mar 14 23:15	14° Ƴ 11'47		evening rise	8771 Jan 13 00:24	4° ≈ 36'17	
asc. node	8770 Mar 15 10:14	14° Ƴ 10'44			8771 Jan 29 14:03	0° ∀	
evening set	8770 Mar 19 11:59	12° Y 21′15		evening max el	8771 Feb 16 05:46	22° ∺ 21'52	23°19'53
inferior conj	8770 Mar 24 19:36	6° Ƴ 01'30	2°38'50	retrograde	8771 Feb 26 18:14	28°) 35′13	
minimum elong	8770 Mar 24 17:26	6° Ƴ 09'02	2°38'18	asc. node	8771 Mar 02 07:20	27°) €33'35	
min. Earth dist.	8770 Mar 24 19:38	6° Ƴ 01'22	0.68437 AU	evening set	8771 Mar 03 18:34	26° ∺ 30′00	
morning rise	8770 Mar 29 22:44	29° ∺ 50'14		min. Earth dist.	8771 Mar 08 16:21	20°) 44′25	0.68407 AU
	8770 Mar 29 18:18	30° ₹ ₩		inferior conj	8771 Mar 09 04:15	20° ∺ 03'27	2°04'41
direct	8770 Apr 03 19:26	27°) 45′38		minimum elong	8771 Mar 09 02:03	20° ∺ 11'03	2°04'03
	8770 Apr 09 12:10	0 ° Υ		morning rise	8771 Mar 14 09:29	13° ¥ 57'35	
morning max el	8770 Apr 13 10:11	3° Y 24'59	22°25'29	direct	8771 Mar 18 16:22	12° 升 15′15	
desc. node	8770 Apr 18 22:41	9° Ƴ 40'07		morning max el	8771 Mar 27 02:24	17°) €05'40	21°02'24
	8770 May 03 15:32	$6^{\circ}B$		desc. node	8771 Apr 05 19:35	28° 升 57′22	
morning set	8770 May 17 02:13	20° 8 55'30			8771 Apr 06 13:49	$0^{\circ}\Upsilon$	
max. Earth dist.	8770 May 22 02:34	29° 8 14'58	1.40706 AU	morning set	8771 Apr 26 15:31	29° Ƴ 52'05	
	8770 May 22 13:12	0° I I		S	8771 Apr 26 17:32	0°8	
	,			max. Earth dist.	8771 May 04 06:08		1.42751 AU
superior conj	8770 May 29 21:32	12° ∏ 49'47	-1°41'53		J	_	
minimum elong	8770 May 30 03:27	13° Ⅱ 16′22		superior conj	8771 May 11 08:39	23° 8 50'54	-2°03'51
	8770 Jun 08 04:40	0°50		minimum elong	8771 May 11 13:31	24° 8 11'37	
evening rise	8770 Jun 09 02:04	1°5940'36		mmmum viong	8771 May 14 22:32	0°II	2 03 .5
asc. node	8770 Jun 11 09:04	5°958'06		evening rise	8771 May 23 00:40	14° ∏ 19'18	
evening max el	8770 Jun 25 03:39	27° © 23'31	18°20'32	asc. node	8771 May 29 06:06	25° I I21'55	
evening max er	8770 Jun 28 12:55	0°Ω	10 20 32	ase. Houe	8771 Jun 01 00:08	0°95	
retrograde	8770 Jul 02 12:24	1° Ω 05'09		evening max el	8771 Jun 08 15:06	10° © 21'50	18°05'50
evening set	8770 Jul 04 17:58	0° Ω 45'37		retrograde	8771 Jun 15 06:47	13°546'00	10 03 30
evening see	8770 Jul 06 15:58	30°R95		evening set	8771 Jun 17 19:54	13° © 16'08	
inferior conj	8770 Jul 12 03:26	26°908'03	1°06'06	inferior conj	8771 Jun 24 12:03	8°918'36	2°13'50
minimum elong	8770 Jul 12 05:34	26° © 03'36	1°05'08	minimum elong	8771 Jun 24 15:02	8° © 11'24	
min. Earth dist.	8770 Jul 15 12:39	20 3 03 30 23° 5 20'48	0.58611 AU	min. Earth dist.	8771 Jun 27 16:58	5°915'01	0.60850 AU
desc. node	8770 Jul 15 12:39 8770 Jul 15 22:05	23° © 02'27	0.38011 AU	morning rise	8771 Jul	2° © 22'18	0.00830 AC
morning rise	8770 Jul 19 13:52	23 \$30227 20°\$36'46		desc. node	8771 Jul 01 07:37	1°930'16	
direct	8770 Jul 19 13:32 8770 Jul 25 17:33	20 \$3040 18°\$56'10		direct	8771 Jul 02 19:09 8771 Jul 07 22:18	0°911'21	
morning max el	8770 Aug 09 02:53	26°\$40'47	27017106	morning max el	8771 Jul 22 05:21	8°9510'17	27952120
morning max er	-		27 1700	morning max er		0°Ω	21 3239
	8770 Aug 12 06:37	0° N			8771 Aug 07 21:33	0°87 29° Ω 29'30	
	8770 Sep 01 05:46	0°Mp		morning set	8771 Aug 24 01:06		
asc. node	8770 Sep 07 08:38	12° Mp 01'02		asc. node	8771 Aug 24 06:59	0° Mp	
morning set	8770 Sep 08 20:55	15° Mp 10'19			8771 Aug 25 05:33	1° Mp 57'50	1 21774 ATT
	0770 0 15 21 16	00 0 2011 4	1017/50	max. Earth dist.	8771 Aug 29 23:52	12° 110/13'04	1.31774 AU
superior conj	8770 Sep 15 21:16				0771 4 21 00 07	1.50 m- 1.012.2	0050122
minimum elong	8770 Sep 15 19:03	0° £ 15'57		superior conj	8771 Aug 31 08:07	15° Mp 10'32	0°58'32 0°58'04
max. Earth dist.	8770 Sep 15 14:54		1.31611 AU	minimum elong	8771 Aug 31 05:57	14° Mp 58'39	0-38/04
	8770 Sep 15 16:11	0∘ ত		evening rise	8771 Sep 07 02:12	29° m 59'23	
evening rise	8770 Sep 22 15:49	15° £ 19'05			8771 Sep 07 02:19	0∘ 亚	
1 1	8770 Sep 29 22:53	0°M		1 1	8771 Sep 23 09:54	0°M	
desc. node	8770 Oct 11 20:42	19°M37'03		desc. node	8771 Sep 28 17:49	7°M11'54	25012102
	8770 Oct 20 07:52	0° ∡ 7	2 < 0.2 010 <	evening max el	8771 Oct 03 18:00	12°M39'05	25°13'02
evening max el	8770 Oct 22 01:06	1° × 741'59	26°30'06	retrograde	8771 Oct 17 15:17	19°M39'22	
retrograde	8770 Nov 04 23:02	8° ₹ 48'23		evening set	8771 Oct 23 10:14	18°M22'51	0.55004.444
evening set	8770 Nov 11 15:28	6° ₹ 58'05		min. Earth dist.	8771 Oct 28 05:48	15°M42'28	0.57334 AU
min. Earth dist.	8770 Nov 15 14:35		0.59341 AU	inferior conj	8771 Oct 31 03:24	13°M45'42	
inferior conj	8770 Nov 18 19:18	1° ₹ 55'17		minimum elong	8771 Oct 31 08:33	13°M37'00	5°20'54
minimum elong	8770 Nov 19 02:44	1° ₹ 40'52	4°29'31	morning rise	8771 Nov 08 09:13	9°M33'27	
	8770 Nov 21 09:16	30°RM₊		direct	8771 Nov 10 19:08	9°M16'21	
morning rise	8770 Nov 26 16:26	27°M20'16		morning max el	8771 Nov 19 19:40	13°M34'59	19°05'00
direct	8770 Nov 28 21:35	27°M02'53		asc. node	8771 Nov 21 05:19	15°M01'26	
asc. node	8770 Dec 04 08:20	28°M54'30			8771 Dec 01 02:35	0°⊀	
	8770 Dec 05 18:18	0°⊀		morning set	8771 Dec 06 12:54	10° ₹ 27'23	
morning max el	8770 Dec 06 17:43	0° х 53′34	18°18'36				
morning set	8770 Dec 22 13:25	26° ₹ 06′24		superior conj	8771 Dec 14 19:57	26° ≯ 46'50	1°15'31

minimum elong	8771 Dec 14 23:06	27° ₹ '01'56	1°15'21	superior conj	8772 Nov 27 09:36	10° ∡ '41'02	1°31'24
Č	8771 Dec 16 12:26	ರ°0		minimum elong	8772 Nov 27 11:45	10° ∡ ′51′56	1°31'26
max. Earth dist.	8771 Dec 21 15:37	9° පි 28'30	1.38761 AU	max. Earth dist.	8772 Dec 02 22:13	21° ∡ ³31'47	1.36646 AU
evening rise	8771 Dec 25 11:02	16° ප 10'52		evening rise	8772 Dec 06 17:57	28° ∡ ³38'52	
desc. node	8771 Dec 25 16:42	16° る 35'20			8772 Dec 07 11:52	ರ°ರ	
	8772 Jan 02 19:54	0° ≈		desc. node	8772 Dec 11 13:43	7° る 09'57	
	8772 Jan 24 04:48	0° ∀			8772 Dec 26 03:26	0° ≈	
evening max el	8772 Jan 29 19:14	6° ₩ 08'34	24°39'02	evening max el	8773 Jan 11 08:28	19° ≈ 56'37	25°50'40
retrograde	8772 Feb 10 09:32	12° 升 54′55		retrograde	8773 Jan 23 20:05	27° ≈ 04'35	
evening set	8772 Feb 15 22:13	10°) 36′40		evening set	8773 Jan 29 21:15	24° ≈ 35'57	
asc. node	8772 Feb 17 04:25	9°) €25'30		min. Earth dist.	8773 Feb 03 04:16	19° ≈ 59'23	0.67150 AU
min. Earth dist.	8772 Feb 20 12:00	5° ∺ 25'29	0.67970 AU	asc. node	8773 Feb 03 01:32	20° ≈ 07'54	
inferior conj	8772 Feb 21 11:24	4°) €07'38	1°21'57	inferior conj	8773 Feb 04 15:07	18° ≈ 09'36	0°30'56
minimum elong	8772 Feb 21 09:38	4° ₩ 13'31	1°21'25	minimum elong	8773 Feb 04 14:20	18° ≈ 12'04	0°30'47
	8772 Feb 24 19:37	30°R≈		morning rise	8773 Feb 10 07:56	12° ≈ 19′13	
morning rise	8772 Feb 26 21:13	28° ≈ 08'33		direct	8773 Feb 13 14:23	11° ≈ 18′02	
direct	8772 Mar 01 15:12	26° ≈ 47'57		morning max el	8773 Feb 20 09:39	15° ≈ 01'01	18°55'21
	8772 Mar 08 01:23	0° ∀			8773 Mar 03 17:53	0° ∀	
morning max el	8772 Mar 09 02:11	0°) 58'37	19°51'20	desc. node	8773 Mar 09 13:24	8° ¥ 53'18	
greatest brilliancy	8772 Mar 22 03:15	17° ¥ 56′04	-0.6m	morning set	8773 Mar 14 20:00	17° ¥ 04'50	
desc. node	8772 Mar 22 16:30	18°) 44′38			8773 Mar 23 02:55	0° Υ	
	8772 Mar 30 04:51	0° Υ		max. Earth dist.	8773 Mar 29 09:06	9° Ƴ 47'26	1.45311 AU
morning set	8772 Apr 04 13:32	8° Y 12'17					
max. Earth dist.	8772 Apr 15 16:38	25° Y 36′16	1.44346 AU	superior conj	8773 Mar 31 08:22	12° Y ′53′06	
	8772 Apr 18 10:39	9° 8		minimum elong	8773 Mar 31 01:09	12° Y ′24'44	2°01'04
					8773 Apr 11 02:37	0°8	
superior conj	8772 Apr 20 19:15	3° 8 48'21		evening rise	8773 Apr 15 09:08	6° 8 54'20	
minimum elong	8772 Apr 20 19:03	3° 8 47'33	2°12'20		8773 Apr 29 23:12	0°Щ	
evening rise	8772 May 04 04:21	26° 8 06'11		asc. node	8773 May 02 00:16	2° ∏ 49'37	
	8772 May 06 11:12	$\Pi^{\circ 0}$		evening max el	8773 May 05 17:01	7° Ⅱ 10'36	18°32'43
asc. node	8772 May 15 03:10	14° Ⅲ 21'51		retrograde	8773 May 12 05:03	10° Ⅱ 42'47	
evening max el	8772 May 22 04:33	23° Ⅱ 40'14	18°10'09	evening set	8773 May 15 09:10	9° Ⅱ 46'11	
retrograde	8772 May 28 13:43	27° Ⅲ 01'36		inferior conj	8773 May 21 02:24	4° Ⅱ 12'48	3°17'12
evening set	8772 May 31 10:21	26° Ⅱ 19'03		minimum elong	8773 May 21 03:28	4° Ⅱ 09'35	3°16'55
inferior conj	8772 Jun 06 13:05	21° Ⅱ 02'56	2°55'56	min. Earth dist.	8773 May 23 04:39	1° Ⅱ 42'21	0.64981 AU
minimum elong	8772 Jun 06 15:24	20° I I56'37	2°55'19		8773 May 24 17:07	30°₹ 8	
min. Earth dist.	8772 Jun 09 06:16	18° Ⅱ 06'30	0.63047 AU	morning rise	8773 May 26 20:56	27° 8 55'45	
morning rise	8772 Jun 12 18:52	14° ∏ 52'20		direct	8773 Jun 02 11:41	25° 8 10'36	
desc. node	8772 Jun 18 16:11	12° Ⅱ 20'53		desc. node	8773 Jun 05 13:13	25° 8 41'24	
direct	8772 Jun 19 13:03	12° Ⅱ 18'27	27040152		8773 Jun 12 15:07	0°II	27012121
morning max el	8772 Jul 03 12:53	20° Ⅱ 21'35	27°49'52	morning max el	8773 Jun 15 22:56	3° Ⅱ 06'02	2/°12'31
	8772 Jul 11 19:29	0° ©			8773 Jul 06 03:59	0°95	
	8772 Jul 30 22:28	0° N		morning set	8773 Jul 21 11:16	26°\$54'44	
morning set	8772 Aug 06 22:48	13° Ω 26'54		David diet	8773 Jul 23 01:06	0°Ω	1 22540 ATT
asc. node	8772 Aug 11 02:31	22° Ω 01′24	1.32415 AU	max. Earth dist.	8773 Jul 25 23:20	5° Ω 53'10	1.33548 AU
max. Earth dist.	8772 Aug 12 03:51	24 6615 52	1.32413 AU	asc. node	8773 Jul 28 23:30	12° Ω 07'20	
superior conj	8772 Aug 14 16:10	29° Ω 40'29	0°35'28	superior conj	8773 Jul 29 19:21	13° Ω 51'53	0°08'20
minimum elong	8772 Aug 14 10:10 8772 Aug 14 14:36	29° Ω 31'57	0°35'01	minimum elong	8773 Jul 29 19:21 8773 Jul 29 18:56	13° Ω 49'39	0°08'04
minimum clong	8772 Aug 14 14:36 8772 Aug 14 19:46	0° Mp	0 33 01	behind sun begin	8773 Jul 29 14:05	$13^{\circ}\Omega 24'02$	0 08 04
evening rise	8772 Aug 14 13:47	14° Mp 40'00		behind sun end	8773 Jul 29 23:47	14°Ω15'18	
evening rise	8772 Aug 21 13:47 8772 Aug 29 04:19	0° ⊽		evening rise	8773 Aug 06 00:42	29° Ω 15'12	
evening max el	8772 Sep 14 05:35	22° ≏ 59'07	23°36'59	evening rise	8773 Aug 06 09:13	0° m)	
desc. node	8772 Sep 14 03:53	22° ⊆ 3707	23 30 37		8773 Aug 23 20:24	0° م	
retrograde	8772 Sep 27 19:09	29° Ω 45'58		evening max el	8773 Aug 26 19:26	ა <u>~</u> 3° ჲ 13'06	21°58'31
evening set	8772 Oct 02 04:44	29° Ω 03'42		desc. node	8773 Sep 01 12:05	7° ≏ 35'48	21 3031
min. Earth dist.	8772 Oct 08 15:44	25° ⊆ 59'25	0.55715 AU	retrograde	8773 Sep 08 11:09	9° م 30'32	
inferior conj	8772 Oct 08 15:44 8772 Oct 10 15:23	23 ⊆ 3923 24° ⊆ 48'28		evening set	8773 Sep 08 11:09 8773 Sep 11 09:52	9° £ 11'09	
minimum elong	8772 Oct 10 13:23 8772 Oct 10 13:57		5°36'31	inferior conj	8773 Sep 11 05:52 8773 Sep 20 11:54	5° £ 11'05	-4°58'57
morning rise	8772 Oct 10 13:37 8772 Oct 19 01:13	20° £ 54'26	5 5051	minimum elong	8773 Sep 20 11:34 8773 Sep 20 03:33	5° £ 22'46	
direct	8772 Oct 19 01:13 8772 Oct 21 21:30	20° ⊆ 34'23		min. Earth dist.	8773 Sep 20 03:33 8773 Sep 19 23:50	5° £ 27'58	0.54791 AU
morning max el	8772 Nov 01 09:31	25° ⊆ 30'41	20°13'49	morning rise	8773 Sep 28 22:38	1° ≏ 22'58	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	8772 Nov 05 10:10	0°M	,	direct	8773 Oct 02 09:22	0° £ 56'44	
asc. node	8772 Nov 07 02:18	2°M15'24		morning max el	8773 Oct 14 10:14	6° ⊆ 37'10	21°43'49
morning set	3= 1.0. 0. 02.10	_ 110-13 2 T			10.11		
<i>5</i> ·	8772 Nov 19 18:41	25°M04'33		asc. node	8773 Oct 24 23:17	20° ₽ 21'44	
	8772 Nov 19 18:41 8772 Nov 22 04:13	25°M04'33 0°⊀		asc. node			
				asc. node morning set	8773 Oct 24 23:17 8773 Oct 30 07:34 8773 Nov 04 04:23	20° £ 21'44 0° M 9° M 51'28	

superior conj minimum elong	8773 Nov 11 08:51 8773 Nov 11 09:43 8773 Nov 13 18:14	25°M02'19 25°M06'53 0°⊀	1°39'31 1°39'40	superior conj minimum elong max. Earth dist.	8774 Oct 26 14:30 8774 Oct 26 14:08 8774 Oct 29 07:19	9°M40'15 9°M38'15 15°M26'39	1°40'46 1°40'54 1.33311 AU
max. Earth dist.	8773 Nov 15 10:47	3° ∡ 126'14	1.34788 AU	evening rise	8774 Nov 03 05:56	25°M36'56	
evening rise	8773 Nov 19 17:35	11° ₹ 51'19		Č	8774 Nov 05 11:31	0° ∡ ¹	
desc. node	8773 Nov 28 10:46	27° ∡ ³33'11		desc. node	8774 Nov 15 07:49	17° ∡ ³38′21	
	8773 Nov 29 21:50	0°ರ			8774 Nov 23 08:07	0°ರ	
	8773 Dec 21 09:02	0° ≈		evening max el	8774 Dec 07 10:38	17° る 05'59	27°21'55
evening max el	8773 Dec 24 21:57	3° ≈ 39'37	26°47'18	retrograde	8774 Dec 20 23:46	24° පි 26'25	
retrograde	8774 Jan 07 01:00	10° ≈ 58′00		evening set	8774 Dec 27 21:37	21°る51'42	
evening set	8774 Jan 13 13:49	8° ≈ 23'11		min. Earth dist.	8774 Dec 31 17:23		0.64429 AU
min. Earth dist.	8774 Jan 17 14:50	4° ≈ 21'10	0.65965 AU	inferior conj	8775 Jan 03 03:34	15° ප් 48'05	
inferior conj	8774 Jan 19 13:19	2° ≈ 05'13		minimum elong	8775 Jan 03 06:27	15° る 40'24	1°32'04
minimum elong	8774 Jan 19 14:06	2°≈02'56	0°27'19	asc. node	8775 Jan 07 19:42	11°る27'07	
asc. node	8774 Jan 20 22:37	0°≈29'28		morning rise	8775 Jan 09 16:55	10° る 22'56	
marning rise	8774 Jan 21 09:19 8774 Jan 25 15:25	30°Rる 26°る26'00		direct	8775 Jan 12 05:28 8775 Jan 18 16:05	9°る50'22 13°る12'23	17°53'07
morning rise direct	8774 Jan 28 11:58	26 32600 25° る 40'59		morning max el	8775 Jan 30 10:15	13 ⊘ 12 23	1/ 330/
morning max el	8774 Feb 03 23:10	23 3 40 39 29° る 08'07	18°15'46	morning set	8775 Feb 04 18:50	0 ∞ 8°≈59'13	
morning max cr	8774 Feb 04 19:19	29 3 08 07	10 13 40	desc. node	8775 Feb 11 07:14	19°≈52'19	
morning set	8774 Feb 23 04:57	27°≈19'32		dese. Hode	8775 Feb 17 12:13	0° ∀	
desc. node	8774 Feb 24 10:20	29° ≈ 17'37					
	8774 Feb 24 20:53	0°)		superior conj	8775 Feb 18 05:49	1°) 10′49	-0°49'06
				minimum elong	8775 Feb 18 00:15	0°) 48′25	0°48'13
superior conj	8774 Mar 10 13:32	21°) 43′27	-1°31'15	max. Earth dist.	8775 Feb 23 00:24	8°) 46′53	1.45029 AU
minimum elong	8774 Mar 10 04:03	21° ∺ 06′17	1°30'13	evening rise	8775 Mar 06 05:01	26° ∺ 11'18	
max. Earth dist.	8774 Mar 12 04:50	24° ∺ 17′26	1.45545 AU		8775 Mar 08 16:45	$0^{\circ}\mathbf{\Upsilon}$	
	8774 Mar 15 20:28	0° Υ		greatest brilliancy	8775 Mar 21 02:43	18° Ƴ 38′00	-0.6m
evening rise	8774 Mar 26 14:59	16° Y 49'00			8775 Mar 29 09:02	0°8	
1 211	8774 Apr 04 02:02	0° 8	0.0	evening max el	8775 Apr 02 06:00	_	20°08'11
greatest brilliancy	8774 Apr 06 21:07	4° 8 17'43	-0.8m	asc. node	8775 Apr 05 18:29	7° 8 26'10	
asc. node evening max el	8774 Apr 18 21:23 8774 Apr 19 02:03	20° 8 35'19 20° 8 47'14	19°12'35	retrograde evening set	8775 Apr 09 23:49 8775 Apr 13 20:28	8° と 55'19 7° と 28'50	
retrograde	8774 Apr 26 01:21	24° 8 42'45	19 12 33	inferior conj	8775 Apr 19 04:27	1° 8 25'50	3°13'44
evening set	8774 Apr 29 13:20	23° 8 31'21		minimum elong	8775 Apr 19 03:12	1° 8 30'05	3°13'28
inferior conj	8774 May 05 00:30	17° 8 42'13	3°22'02	min. Earth dist.	8775 Apr 20 00:57	0° 8 16'17	0.67611 AU
minimum elong	8774 May 05 00:18	17° 8 42'53	3°21'52		8775 Apr 20 05:47	30° R Υ	
min. Earth dist.	8774 May 06 11:26	15° 8 49'29	0.66520 AU	morning rise	8775 Apr 24 09:42	25° Y 08'32	
morning rise	8774 May 10 10:51	11° 8 23'34		direct	8775 Apr 30 03:50	22° Y 34'29	
direct	8774 May 16 16:54	8° 8 39'04		desc. node	8775 May 10 07:11	28° Y 05'30	
desc. node	8774 May 23 10:13	11° 8 06'39		morning max el	8775 May 11 18:52	29° Ƴ 32'37	24°46'03
morning max el	8774 May 29 09:19	16° 8 13'06	26°08'04		8775 May 12 05:34	0°8	
	8774 Jun 09 18:41	0° I I			8775 Jun 03 14:39	$\Pi^{\circ 0}$	
	8774 Jun 29 01:12	0.ee		morning set	8775 Jun 16 17:18	21° II 42'03	1.05155.137
morning set	8774 Jul 04 10:58	9°543'42	1 25162 ATT	max. Earth dist.	8775 Jun 20 08:06		1.37177 AU
max. Earth dist.	8774 Jul 08 08:19	1/°2006'36	1.35163 AU		8775 Jun 21 07:31	0ං ව	
superior conj	8774 Jul 13 15:10	27° © 37'58	-0°22'03	superior conj	8775 Jun 27 00:33	10° © 51'08	-0°54'08
minimum elong	8774 Jul 13 16:28	27°5944'31		minimum elong	8775 Jun 27 03:55	11°907'35	
8	8774 Jul 14 18:56	0°N	· · ·	asc. node	8775 Jul 02 17:30	22°©10'53	
asc. node	8774 Jul 15 20:30	2° Ω 11'43		evening rise	8775 Jul 05 12:04	27°5945'06	
evening rise	8774 Jul 21 08:56	13° Ω 39'04		Č	8775 Jul 06 15:06	$0^{\circ}\Omega$	
	8774 Jul 29 19:20	0° m		evening max el	8775 Jul 22 09:07	25° Ω 19′02	19°24'23
evening max el	8774 Aug 08 19:32	13° m 53'42	20°31'48	retrograde	8775 Jul 31 20:05	29° Ω 59'40	
desc. node	8774 Aug 19 09:13	19° m 24'19		evening set	8775 Aug 02 16:29	29° Ω 49'42	
retrograde	8774 Aug 19 23:18	19° m 25'12		desc. node	8775 Aug 06 06:20	28° Ω 39'34	
evening set	8774 Aug 22 00:25	19° m 14'49		inferior conj	8775 Aug 11 08:28	25° Ω 42'35	
inferior conj	8774 Aug 31 04:42	15° m 17'43		minimum elong	8775 Aug 11 04:15	25° Ω 49'26	
minimum elong	8774 Aug 30 19:42		3°26'18	min. Earth dist.	8775 Aug 13 21:31	24° Ω 03'47	0.55716 AU
min. Earth dist. morning rise	8774 Sep 01 08:59	14° Mp 36'51	0.54781 AU	morning rise direct	8775 Aug 24 12:08	21° Ω 07'18	
morning rise direct	8774 Sep 08 14:35 8774 Sep 12 17:58	11° Mp 15'06 10° Mp 38'20		morning max el	8775 Aug 24 12:08 8775 Sep 07 13:36	20° Ω 11'50 27° Ω 16'45	25012124
morning max el	8774 Sep 12 17.38 8774 Sep 26 01:15	10 my 38 20 17° my 03'52	23°28'03	morning max ci	8775 Sep 07 13.36 8775 Sep 10 05:28	0° Mp	43 14 4
morning max or	8774 Oct 06 10:29	ე° ჲ	25 26 65	asc. node	8775 Sep 10 03:28 8775 Sep 28 17:13	28° Mp 21'34	
asc. node	8774 Oct 11 20:16	9° ₽ 07'00			8775 Sep 29 13:15	0° ಹ	
morning set	8774 Oct 19 15:54	24° £ 41'04		morning set	8775 Oct 04 03:31	9° ഫ 28'30	
	8774 Oct 22 03:23	0° M					

superior aoni	9775 Oat 11 00:07	24° £ 27'29	1025150		9776 San 04 21:40	0° m)	
superior conj minimum elong	8775 Oct 11 00:07 8775 Oct 10 22:45	24° £ 2729 24° £ 19'56	1°35'52	asc. node	8776 Sep 04 21:40 8776 Sep 14 14:08	0 mµ 17° mp 57'18	
max. Earth dist.	8775 Oct 10 22.43	24 ≗ 1936 27° ≗ 39'42	1.32283 AU	morning set	8776 Sep 14 14.08 8776 Sep 17 13:36	24° Mp 08'50	
max. Earm dist.	8775 Oct 12 11:11 8775 Oct 13 12:58	27 = 3942 0° M	1.32263 AU	morning set	8776 Sep 20 06:44	ე∘ 亞	
evening rise	8775 Oct 18 03:46	9°M47'20			8770 Sep 20 00.44	0 ==	
evening rise	8775 Oct 28 19:18	9 1104720 0°×7		superior conj	8776 Sep 24 11:40	9° £ 17'27	1°25'24
desc. node	8775 Nov 02 04:54	0 x ⁴ 7° x 17'44		minimum elong	8776 Sep 24 11:40 8776 Sep 24 09:38	9° ⊆ 1727	1°25'11
desc. flode	8775 Nov 02 04.34 8775 Nov 19 19:18	7 x 17 44 0°る		max. Earth dist.	8776 Sep 24 19:48	9 = 00 13 10° ⊆ 02'37	1.31721 AU
ovanina may al	8775 Nov 19 19:18 8775 Nov 19 20:46	0°る03'28	27°28'03	evening rise	8776 Oct 01 08:16	10 = 02 37 24° £ 14'48	1.31/21 AU
evening max el		7°る20'24	27 28 03	evening rise			
retrograde	8775 Dec 03 15:44	4° る 54'44		4 4-	8776 Oct 04 02:58 8776 Oct 19 02:01	0°ጤ 26°ጤ21'02	
evening set	8775 Dec 10 17:45	1°る54'40	0.62596 AII	desc. node		26°11621°02 0° √ 7	
min. Earth dist.	8775 Dec 14 10:17		0.62586 AU		8776 Oct 21 14:48		27901100
	8775 Dec 16 10:40	30°R.✓	20.42150	evening max el	8776 Nov 01 02:00	12°×20'23	27°01'09
inferior conj	8775 Dec 17 06:58	29° 🖈 11'14		retrograde	8776 Nov 14 23:49	19° ∡ 30'47	
minimum elong	8775 Dec 17 12:13	28° 🖈 58'42	2°41'38	evening set	8776 Nov 21 22:25	17° 🗷 24'54	0.60527.411
morning rise	8775 Dec 24 08:52	24° 🗷 03'11		min. Earth dist.	8776 Nov 25 16:39	14° х 44'30	0.60537 AU
asc. node	8775 Dec 25 16:45	23° ₹ 43'35		inferior conj	8776 Nov 28 20:13	12° ∡ 06′21	
direct	8775 Dec 26 15:46	23° ∡ ³39'19 −		minimum elong	8776 Nov 29 03:22		3°51'53
morning max el	8776 Jan 02 09:18	27° ∡ ¹05'44	17°48'04	morning rise	8776 Dec 06 10:45	7° ∡ 18′20	
	8776 Jan 04 22:53	0° る		direct	8776 Dec 08 15:15	6° ≯ 759'34	
morning set	8776 Jan 18 08:18	21° る 46'27		asc. node	8776 Dec 11 13:46	7° ∡ ³34'57	
	8776 Jan 23 00:30	0° ≈		morning max el	8776 Dec 15 23:25	10° ₹ 39'15	18°01'42
desc. node	8776 Jan 29 04:08	10° ≈ 33'37			8776 Dec 28 17:04	0°ರ	
				morning set	8776 Dec 31 14:57	5° る 22'14	
superior conj	8776 Jan 29 21:36	11° ≈ 47'04	-0°05'23				
minimum elong	8776 Jan 29 21:06	11° ≈ 44'55	0°05'07	superior conj	8777 Jan 10 14:38	23° る 35'24	0°32'48
behind sun begin	8776 Jan 29 12:29	11° ≈ 08'45		minimum elong	8777 Jan 10 17:09	23° ප් 46'32	0°32'38
behind sun end	8776 Jan 30 05:42	12° ≈ 21′00			8777 Jan 14 06:50	0° ≈	
max. Earth dist.	8776 Feb 05 16:59	22° ≈ 58'33	1.43833 AU	desc. node	8777 Jan 15 01:05	1° ≈ 18′11	
	8776 Feb 10 02:52	0° ∀		max. Earth dist.	8777 Jan 18 05:15	6° ≈ 39'17	1.42097 AU
evening rise	8776 Feb 13 17:26	5°) 37'46		evening rise	8777 Jan 23 18:50	15° ≈ 43'51	
	8776 Mar 01 01:23	0 ° Υ			8777 Feb 02 00:08	0° ∀	
evening max el	8776 Mar 15 04:21	18° Ƴ 05'56	21°16'42		8777 Feb 24 04:41	0 ° Υ	
asc. node	8776 Mar 22 15:36	23° Y 07'06		evening max el	8777 Feb 25 22:01	1° Ƴ 48'35	22°33'48
retrograde	8776 Mar 23 22:12	23° Ƴ 15′21		retrograde	8777 Mar 07 18:47	7° Ƴ 39'16	
evening set	8776 Mar 28 04:37	21° Y 33'43		asc. node	8777 Mar 09 12:42	7° Y 24'00	
inferior conj	8776 Apr 02 11:48	15° Ƴ 19'14	2°54'25	evening set	8777 Mar 12 12:14	5° Ƴ 42'39	
minimum elong	8776 Apr 02 09:52	15° Y 25'59	2°53'58		8777 Mar 17 08:56	30° ₹ ₩	
min. Earth dist.	8776 Apr 02 19:04	14° Y 53'59	0.68259 AU	inferior conj	8777 Mar 17 20:34	29° ¥ 19'39	2°25'27
morning rise	8776 Apr 07 14:53	9° Ƴ 05'09		minimum elong	8777 Mar 17 18:19	29° ∺ 27'26	2°24'51
direct	8776 Apr 12 19:34	6° Ƴ 48'26		min. Earth dist.	8777 Mar 17 15:32	29°) 37′07	0.68477 AU
morning max el	8776 Apr 23 04:22	12° Y 58'28	23°16'29	morning rise	8777 Mar 23 00:15	23° ¥ 10′19	
desc. node	8776 Apr 26 04:06	16° Υ 11'59		direct	8777 Mar 27 15:05	21°) 14'51	
desc. node	8776 May 06 20:56	0°8		morning max el	8777 Apr 05 17:00	26°) 32'40	21°48'52
	8776 May 26 11:36	0° I I		morning mun vi	8777 Apr 08 21:18	0° Υ	21 1002
morning set	8776 May 28 00:41	2° ∏ 34'26		desc. node	8777 Apr 13 01:00	5° Ƴ 07'48	
max. Earth dist.	8776 Jun 01 03:58	9° П 37'50	1.39417 AU	acco. no ac	8777 Apr 30 09:44	0°8	
man Bartir Giot.	0770 0411 01 05.50	23,50	1.09 117 110	morning set	8777 May 08 04:55	12° 8 11'13	
superior conj	8776 Jun 08 19:32	23° Ⅱ 21'16	-1°25'33	max. Earth dist.	8777 May 14 03:30	21° 8 52'20	1.41624 AU
minimum elong	8776 Jun 09 00:50	23° II 45'51			8777 May 18 22:55	0°II	
8	8776 Jun 12 08:33	0 - -			0777 === 10 0	-	
evening rise	8776 Jun 18 07:07	11° © 24'32		superior conj	8777 May 21 19:40	4° Ⅱ 58'24	-1°52'27
asc. node	8776 Jun 18 14:30	12°500'05		minimum elong	8777 May 22 01:33	5° ∏ 24'13	
	8776 Jun 28 14:54	0° Ω		evening rise	8777 Jun 01 14:26	24° II 28'27	1 02 00
evening max el	8776 Jul 04 10:14		18°37'58	evening rise	8777 Jun 04 14:39	0°9	
retrograde	8776 Jul 12 10:07	11° Ω 26'22	10 37 30	asc. node	8777 Jun 05 11:31	1° 5 34'51	
evening set	8776 Jul 14 11:26	11° Ω 11'31		evening max el	8777 Jun 17 19:03	20°911'18	18°11'55
inferior conj	8776 Jul 22 08:13	6° Ω 46'11	0°14'28	retrograde	8777 Jun 24 18:57	23°543'10	10 11 55
minimum elong	8776 Jul 22 08:45	6° Ω 45'09	0°14'04	evening set	8777 Jun 27 03:52	23°919'29	
transit middle	8776 Jul 22 08:45	6° Ω 45'09	0°14'04 0°14'04	inferior conj	8777 Jul 04 05:32	18°933'23	1°38'12
transit begin	8776 Jul 22 06:59	6° Ω 48'30	V 17 V 1	minimum elong	8777 Jul 04 03:32 8777 Jul 04 08:18	18°927'16	1°37'06
transit begin transit end	8776 Jul 22 10:32	6° Ω 41'47		min. Earth dist.	8777 Jul 04 08:18 8777 Jul 07 14:16	18°927'16 15°936'14	0.59562 AU
		6° Ω 09'35					0.37302 AU
desc. node	8776 Jul 23 03:26		0.57417 411	desc. node	8777 Jul 10 00:30	13°543'48	
min. Earth dist.	8776 Jul 25 14:45	4° Ω 18′29	0.57417 AU	morning rise	8777 Jul 11 09:43	12°950'25	
morning rise	8776 Jul 30 02:33	1° Ω 33'48		direct	8777 Jul 17 19:14	10°956'12	27027140
direct	8776 Aug 04 21:04	0° Ω 10'41	26020157	morning max el	8777 Aug 01 03:45	18°947'31	27°36'48
morning max el	8776 Aug 19 05:24	7° Ω 44'06	20 3937		8777 Aug 10 14:37	0 ° Ω	

asc. node morning set	8777 Aug 28 14:38 8777 Sep 01 11:03 8777 Sep 01 20:28	0° m/ 7° m/48'00 8° m/37'11		morning max el	8778 Jul 14 08:40 8778 Aug 04 17:46 8778 Aug 16 22:14	0°\$35'43 0°Ω 22°Ω48'23	27°56'06
max. Earth dist.	8777 Sep 08 05:49	22° m/27'24	1.31624 AU	asc. node	8778 Aug 19 08:01 8778 Aug 20 08:48	27° N 48'37 0° M	
superior conj minimum elong	8777 Sep 08 23:16 8777 Sep 08 21:02	24° Mp 04'11 23° Mp 51'43	1°09'45 1°09'21	max. Earth dist.	8778 Aug 22 13:23	4° m 43'05	1.31991 AU
evening rise	8777 Sep 11 15:27 8777 Sep 15 17:07	0° ჲ 8° ჲ 52'29		superior conj minimum elong	8778 Aug 24 09:12 8778 Aug 24 07:14	8° m/42'25 8° m/31'34	0°49'17 0°48'49
desc. node	8777 Sep 26 12:37 8777 Oct 05 23:09	0°ጤ 14°ጤ33'38		evening rise	8778 Aug 31 04:18 8778 Sep 03 05:40	23° m 34'25 0° ⊆	
evening max el	8777 Oct 13 23:54 8777 Oct 23 06:48	23°M47'22 0°⊀	26°00'41	desc. node	8778 Sep 21 11:00 8778 Sep 22 20:17	0°M 1°M36′00	
retrograde	8777 Oct 27 22:01 8777 Nov 01 12:16	0° ኦ 750'45 30° R M		evening max el retrograde	8778 Sep 25 13:59 8778 Oct 09 08:45	4°M26'28 11°M21'56	24°33'34
evening set	8777 Nov 03 06:49	29° ™ 14'29		evening set	8778 Oct 14 14:58	10°M20'28	
min. Earth dist.	8777 Nov 07 12:44	26°M39'28	0.58454 AU	min. Earth dist.	8778 Oct 20 00:58	7°M32'20	0.56581 AU
inferior conj	8777 Nov 10 15:48	24°M23'05	-4°55'57	inferior conj	8778 Oct 22 15:15	5°M53'40	-5°33'33
minimum elong	8777 Nov 10 22:47	24°M10'20	4°54'20	minimum elong	8778 Oct 22 18:03	5°M49'11	5°33'15
morning rise	8777 Nov 18 17:04	19° ™ 57'29		morning rise	8778 Oct 30 23:19	1°ML50'16	
direct	8777 Nov 20 23:38	19° ™ 40'33		direct	8778 Nov 02 13:16	1°M32'10	
asc. node	8777 Nov 28 10:46	22°M56'10	10025120	morning max el	8778 Nov 12 03:53	6°M05'15	19°31'33
morning max el	8777 Nov 29 06:47	23°M42'13	18°35'39	asc. node	8778 Nov 15 07:46	9°M33'47	
morning sot	8777 Dec 04 09:44 8777 Dec 15 09:28	0° ҂ 19° ҂ 30'12		morning sat	8778 Nov 27 11:56	0° द्र ⁷ 3° द्र ⁷ 59'32	
morning set	8777 Dec 13 09.28 8777 Dec 20 19:47	0°る		morning set	8778 Nov 29 12:00	3 X ·3932	
				superior conj	8778 Dec 07 11:22	19° ∡ 757'57	1°23'15
superior conj	8777 Dec 24 04:53	6° る 23'35	1°02'29	minimum elong	8778 Dec 07 14:09	20° ∡ 11'40	1°23'11
minimum elong	8777 Dec 24 08:14	6° ප 39'12	1°02'16		8778 Dec 12 17:07	0°ಕ	
max. Earth dist.	8777 Dec 31 13:16	19° る 39'53	1.40019 AU	max. Earth dist.	8778 Dec 13 19:11	2°る00'42	1.37843 AU
desc. node	8778 Jan 01 22:04	22°る01'51		evening rise	8778 Dec 17 12:30	8°る43'20	
evening rise	8778 Jan 04 16:52	26°₹45'11		desc. node	8778 Dec 19 19:06	12°る41'08	
	8778 Jan 06 15:52 8778 Jan 26 15:28	0° ₩			8778 Dec 30 11:35 8779 Jan 22 01:45	0° ≈ 29° ≈ 21'37	25°10'47
evening max el	8778 Feb 08 12:34	0 X 15° ¥ 34'05	23°54'02	evening max el	8779 Jan 22 17:37	29 ≈ 2137 0° ∺	23 1047
retrograde	8778 Feb 19 12:12	22° 升 01'52	23 34 02	retrograde	8779 Feb 03 01:29	6° ₩ 18'15	
asc. node	8778 Feb 24 09:48	20°\(\chi\)07'23		evening set	8779 Feb 08 19:40	3° ¥ 54'55	
evening set	8778 Feb 24 17:46	19° X 50'59		asc. node	8779 Feb 11 06:55	1° ∺ 25′20	
min. Earth dist.	8778 Mar 01 12:02		0.68276 AU		8779 Feb 12 11:11	30°R≈	
inferior conj	8778 Mar 02 04:48	13°) €23'06	1°47'36	min. Earth dist.	8779 Feb 13 06:25	28° ≈ 58'44	0.67673 AU
minimum elong	8778 Mar 02 02:44	13°) 30′11	1°46'59	inferior conj	8779 Feb 14 10:43	27° ≈ 26'31	1°01'18
morning rise	8778 Mar 07 11:41	7°) 19′58		minimum elong	8779 Feb 14 09:18	27° ≈ 31′09	1°00'54
direct	8778 Mar 11 13:04	5°) 46′52		morning rise	8779 Feb 19 23:16	21° ≈ 31′09	
morning max el	8778 Mar 19 12:14	10°) 1 8′28	20°30'28	direct	8779 Feb 23 12:11	20° ≈ 19′12	
desc. node	8778 Mar 30 21:55	24°) ₹39'00		morning max el	8779 Mar 02 15:28	24° ≈ 16′15	19°25'38
	8778 Apr 03 15:10	0° Υ			8779 Mar 07 13:49	0°)	
morning set	8778 Apr 17 09:26	20° Y 45'35		greatest brilliancy	8779 Mar 15 11:05	11°) €07'47	-0.7m
To all III	8778 Apr 23 06:50	0°8	1 42500 431	desc. node	8779 Mar 17 18:49	14°) ₹36'07	
max. Earth dist.	8778 Apr 26 10:36	5° 8 02'55	1.43508 AU	morning set	8779 Mar 27 08:04 8779 Mar 27 20:39	29° ¥ 11′28 0° Ƴ	
superior conj	8778 May 02 20:35	15° 8 33'04	-2°09'26	max. Earth dist.	8779 Apr 09 00:20	18° Y 56'58	1.44843 AU
minimum elong	8778 May 02 23:49	15° 8 46'31		max. Earth dist.	0775 Tipi 05 00.20	10 13030	1.11013110
	8778 May 11 08:25	0°П		superior conj	8779 Apr 12 21:04	25° Ƴ 05'01	-2°10'11
evening rise	8778 May 15 05:34	6° Ⅱ 46'40		minimum elong	8779 Apr 12 17:46	24° Ƴ 51'52	
asc. node	8778 May 23 08:35	20° Ⅱ 49'37			8779 Apr 15 22:35	9° 8	
	8778 May 29 10:27	0 \circ \odot		evening rise	8779 Apr 26 23:55	18° 8 09'35	
evening max el	8778 Jun 01 07:47	3° 5 19'39	18°05'20		8779 May 04 02:44	$\Pi^{\circ}0$	
retrograde	8778 Jun 07 19:19	6° 5 640'43		asc. node	8779 May 10 05:40	9° Ⅱ 37'12	
evening set	8778 Jun 10 11:45	6° © 05'31		evening max el	8779 May 15 21:07	16° Ⅱ 43'56	18°17'29
inferior conj	8778 Jun 16 21:40	0° © 59'37	2°34'33	retrograde	8779 May 22 06:30	20° Ⅱ 08'37	
minimum elong	8778 Jun 17 00:30	0°\$52'25	2°33'40	evening set	8779 May 25 06:14	19° Ⅱ 20'14	
	8778 Jun 17 20:59	30°RⅡ 270Ⅲ56144	0.61011.177	inferior conj	8779 May 31 04:27	13° II 56'19	3°07'14
min. Earth dist.	8778 Jun 19 22:05	27° ∏ 56'44	0.61811 AU	minimum elong	8779 May 31 06:16	13° I 51′08	3°06'46
morning rise desc. node	8778 Jun 23 11:10 8778 Jun 26 21:33	24° П 56'14 23° П 08'02		min. Earth dist.	8779 Jun 02 15:22 8779 Jun 06 05:04	11° Ⅱ 09'09 7° Ⅱ 41'59	0.63909 AU
desc. node direct	8778 Jun 26 21:33 8778 Jun 30 04:15	23°Щ08'02 22°Щ34'39		morning rise direct	8779 Jun 06 05:04 8779 Jun 12 22:21	5° П 02'03	
uncet	8778 Jul 13 18:09	22 п 3439		desc. node	8779 Jun 12 22.21 8779 Jun 13 18:35	5° I 02'03	
	5770 Jul 15 10.09	٠ -		Good. House	5777 July 15 10.55	J 110722	

morning max el	8779 Jun 26 17:51		27°37'55	morning rise	8780 May 19 12:36	20° 8 57'40	
	8779 Jul 10 07:41	$0 {\circ} {f \varpi}$		direct	8780 May 26 00:05	18° 8 11'15	
	8779 Jul 28 07:00	$0^{\circ}\Omega$		desc. node	8780 May 30 15:35	19° 8 22'08	
morning set	8779 Jul 31 16:25	6° Ω 34'40		morning max el	8780 Jun 08 04:27	26° 8 00'21	26°47'52
max. Earth dist.	8779 Aug 05 14:22	16° Ω 37'00	1.32838 AU		8780 Jun 11 20:38	$\Pi^{\circ}0$	
asc. node	8779 Aug 06 04:59	17° Ω 53'50			8780 Jul 02 20:59	0 \circ \odot	
				morning set	8780 Jul 13 23:58	19° 5 48'03	
superior conj	8779 Aug 08 15:27	23° Ω 05'15	0°24'25	max. Earth dist.	8780 Jul 18 05:23	28°903'15	1.34178 AU
minimum elong	8779 Aug 08 14:17	22° Ω 59'03	0°24'01		8780 Jul 19 04:37	$0^{\circ}\Omega$	
	8779 Aug 11 20:12	0° m/					
evening rise	8779 Aug 15 15:51	8° m) 13'38		superior conj	8780 Jul 22 15:50	7° Ω 07'10	-0°04'15
evening rise	8779 Aug 26 23:19	0° ⊡		minimum elong	8780 Jul 22 16:05	7°Ω08'25	
avaning may al	8779 Sep 07 01:07	0 = 14° £ 38'31	22°54'19	behind sun begin	8780 Jul 22 10:31	6° Ω 39'31	0 0423
evening max el	•		22 34 19	•			
desc. node	8779 Sep 09 17:26	17° Ω 00'35		behind sun end	8780 Jul 22 21:38	7° Ω 37'21	
retrograde	8779 Sep 20 07:27	21° Ω 15'58		asc. node	8780 Jul 23 01:58	7° Ω 59'59	
evening set	8779 Sep 24 01:31	20° Ω 45'08		evening rise	8780 Jul 30 01:53	22° Ω 44'55	
min. Earth dist.	8779 Oct 01 09:31	17° ≏ 25'56	0.55220 AU		8780 Aug 02 14:38	0° m)	
inferior conj	8779 Oct 02 19:34	16° ≏ 37'00	-5°27'40	evening max el	8780 Aug 18 18:33	25° Mp 00'42	21°19'32
minimum elong	8779 Oct 02 14:48	16° ≏ 43'53	5°27'08		8780 Aug 25 21:34	0∘ ⊽	
morning rise	8779 Oct 11 06:05	12° ≏ 47'58		desc. node	8780 Aug 26 14:33	0° ჲ 16'04	
direct	8779 Oct 14 08:00	12° ≏ 25'52		retrograde	8780 Aug 30 20:43	1° ≏ 00′16	
morning max el	8779 Oct 25 12:09	17° ≙ 40'06	20°49'51	evening set	8780 Sep 02 07:41	0° ≏ 46′20	
asc. node	8779 Nov 02 04:46	27° £ 11'31			8780 Sep 05 02:10	30°R, Mp	
	8779 Nov 03 23:15	0°M.		inferior conj	8780 Sep 11 12:43	26° m 49'15	-4°26'09
morning set	8779 Nov 13 19:42	18°M41'25		minimum elong	8780 Sep 11 03:09	27° m) 02'40	4°23'42
8 - 11	8779 Nov 19 06:02	0° ∡ 7		min. Earth dist.	8780 Sep 11 18:06	26° m) 41'41	0.54669 AU
	0,7,51,0,1,500.02	• ••		morning rise	8780 Sep 19 23:20	22° m 57'09	0.5 .009 110
superior conj	8779 Nov 21 05:31	4° ₹ 05'01	1°35'43	direct	8780 Sep 23 16:38	22° m) 27'14	
minimum elong	8779 Nov 21 03:31 8779 Nov 21 07:09	4°×713'21	1°35'50	morning max el	8780 Oct 06 08:08	28° m) 27'55	22°27'04
•				morning max er			22 27 04
max. Earth dist.	8779 Nov 26 03:32	13° x 56'17	1.35808 AU		8780 Oct 07 21:29	0∘ ত	
evening rise	8779 Nov 30 02:57	21° х 31'03		asc. node	8780 Oct 19 01:44	15° ≏ 35'40	
	8779 Dec 04 19:49	0°る			8780 Oct 26 14:09	0°M	
desc. node	8779 Dec 06 16:09	3° る 11'30		morning set	8780 Oct 28 06:19	3° ™ 29'42	
	8779 Dec 24 08:22	0° ≈					
evening max el	8780 Jan 04 14:52	13° ≈ 07'42	26°17'00	superior conj	8780 Nov 04 07:48	18° M 34'19	1°40'50
retrograde	8780 Jan 17 09:53	20° ≈ 22'09		minimum elong	8780 Nov 04 08:08	18° ™ 36′03	1°41'00
evening set	8780 Jan 23 16:14	17° ≈ 49'56		max. Earth dist.	8780 Nov 07 19:01	25° M 50′01	1.34104 AU
min. Earth dist.	8780 Jan 27 20:28	13° ≈ 28'19	0.66686 AU		8780 Nov 09 20:05	0° ∡ ¹	
asc. node	8780 Jan 29 04:01	11° ≈ 51'52		evening rise	8780 Nov 12 08:25	4° ∡ ¹58'46	
inferior conj	8780 Jan 29 12:22	11° ≈ 26′15	0°06'56	desc. node	8780 Nov 22 13:12	23° х 27'49	
minimum elong	8780 Jan 29 12:10	11° ≈ 26'50	0°07'01		8780 Nov 26 13:36	0°ರ	
transit middle	8780 Jan 29 12:10	11° ≈ 26′50	0°07'01	evening max el	8780 Dec 17 04:06	26° ප් 44'47	27°05'16
transit begin	8780 Jan 29 09:35	11° ≈ 34'46		<i>5</i>	8780 Dec 20 22:04	0° ≈	
transit end	8780 Jan 29 14:46	11° ≈ 18'54		retrograde	8780 Dec 30 12:27	4° ≈ 05'42	
morning rise	8780 Feb 04 08:53	5° ≈ 40'33		evening set	8781 Jan 06 05:22	1°≈30'04	
direct		4°≈46'52		evening set	8781 Jan 07 22:49	30°Rる	
	8780 Feb 07 10:49		10027120	i. Fauth diat			0.65342 AU
morning max el	8780 Feb 14 01:52	8°≈21'54	18°36'30	min. Earth dist.	8781 Jan 10 04:00	27° 3 42'18	
	8780 Feb 29 13:23	0°) (52100		inferior conj	8781 Jan 12 07:29	25° ろ 17'11	
desc. node	8780 Mar 03 15:44	4°) € 52'09		minimum elong	8781 Jan 12 09:06	25° る 12'37	0°54'04
morning set	8780 Mar 06 00:30	8°) ₹35'45		asc. node	8781 Jan 15 01:07	22° る 21'48	
	8780 Mar 19 15:46	$0^{\circ}\mathbf{\Upsilon}$		morning rise	8781 Jan 18 14:09	19° る 43'29	
				direct	8781 Jan 21 06:55	19° る 04'21	
superior conj	8780 Mar 22 04:36	3° Ƴ 57'58	-1°50'45	morning max el	8781 Jan 27 17:09	22° る 28'31	18°04'00
minimum elong	8780 Mar 21 19:32	3° Y 22′29	1°50'02		8781 Feb 02 16:59	0° ≈	
max. Earth dist.	8780 Mar 21 18:13	3° Ƴ 17′20	1.45493 AU	morning set	8781 Feb 14 22:04	19° ≈ 27'38	
evening rise	8780 Apr 06 18:39	28° Ƴ 33'57		desc. node	8781 Feb 18 12:38	25° ≈ 21'18	
Č	8780 Apr 07 16:14	0°8			8781 Feb 21 09:21	0°) €	
greatest brilliancy	8780 Apr 15 01:01	11° 8 43'34	-0.8m				
asc. node	8780 Apr 26 02:47	27° 8 49'03	0.0111	superior conj	8781 Mar 01 12:16	12° ¥ 58′20	-1°14'13
ase. Houe	8780 Apr 28 01:19	27 O 4903		minimum elong	8781 Mar 01 12:10	12 X 38 20 12° X 25′26	
avaning may -1	•	0° П 0° П 17'57	18°47'37	max. Earth dist.		12° X 25°26 17° X 47'19	1.45408 AU
evening max el	8780 Apr 28 08:21		10 4/ 3/	max. Earth dist.	8781 Mar 04 13:41		1.43406 AU
retrograde	8780 May 05 00:24	3° ∏ 58'59			8781 Mar 12 09:37	0° Υ	
evening set	8780 May 08 07:40	2° ∏ 56′21		evening rise	8781 Mar 17 16:16	8°Υ10'26	
	8780 May 11 14:58	30° ₹ 8		greatest brilliancy	8781 Mar 30 21:23	28° Y ′22'50	-0.7m
inferior conj	8780 May 13 21:57	27° 8 16'09	3°21'02		8781 Mar 31 23:37	0° 8	
minimum elong	8780 May 13 22:27	27° 8 14'34	3°20'50	evening max el	8781 Apr 11 15:23	13° 8 56'02	19°34'31
min. Earth dist.	8780 May 15 17:42	25° 8 00'24	0.65682 AU	asc. node	8781 Apr 12 23:54	15° 8 13'17	

	0701 A 10 21.40	100			0702 4 07 10-26	200500	
retrograde	8781 Apr 18 21:49	18° 8 04'44			8782 Apr 07 19:26	30°RΥ	2006145
evening set	8781 Apr 22 13:19	16° 8 47'06 10° 8 52'06	2010157	inferior conj	8782 Apr 12 04:28	24° Y '40'00 24° Y '45'27	3°06'45 3°06'25
inferior conj	8781 Apr 27 22:50	_	3°19'57	minimum elong	8782 Apr 12 02:53	24°° Y °45'27 23° Y '49'22	0.67948 AU
minimum elong	8781 Apr 27 22:09	10° 8 54'22		min. Earth dist.	8782 Apr 12 19:13	23° γ 49°22 18° Υ 24'06	0.67948 AU
min. Earth dist.	8781 Apr 29 03:35	9° 8 17'04	0.67040 AU	morning rise	8782 Apr 17 08:29	18° Y 24′06 15° Y 56′43	
morning rise	8781 May 03 06:38	4° 8 33'46		direct	8782 Apr 22 21:07		2400011.5
direct	8781 May 09 08:02	1° 8 52'19		morning max el	8782 May 03 23:21	22° Υ 34'40	24°08'15
desc. node	8781 May 17 12:32	5° 8 30'29	25024140	desc. node	8782 May 04 09:29	23° Y 00'34	
morning max el	8781 May 21 14:16	9° 8 13'01	25°34'40		8782 May 10 11:25	0° B	
	8781 Jun 06 22:51	0°П			8782 May 31 06:38	0°Π	
	8781 Jun 25 10:29	0°©		morning set	8782 Jun 08 14:05	13° ∏ 48′52	
morning set	8781 Jun 26 16:53	2° © 17'17		max. Earth dist.	8782 Jun 12 06:56	20° ∏ 19'21	1.38121 AU
max. Earth dist.	8781 Jun 30 09:34	9° © 08'33	1.35979 AU		8782 Jun 17 13:35	0ං වෙ	
superior conj	8781 Jul 06 07:38	20° © 40'41	0025122	superior conj	8782 Jun 19 11:25	3° © 36'59	1007'43
minimum elong	8781 Jul 06 09:47	20°951'25		minimum elong	8782 Jun 19 15:40	3° 9 57'20	
asc. node	8781 Jul 09 22:58	28° © 02'55	0 33 21	asc. node	8782 Jun 26 19:57	17° 9 58'31	1 0/13
asc. node	8781 Jul 10 21:50	28 3 02 33			8782 Jun 28 08:18	20°957'56	
		7° Ω 02'05		evening rise			
evening rise	8781 Jul 14 08:13				8782 Jul 03 00:22	0° Ω	10002102
·	8781 Jul 27 01:24	0° Mp	20000126	evening max el	8782 Jul 14 19:25	17° Ω 45'09	19°02'03
evening max el	8781 Aug 01 00:32	6° Mp 00'29	20°00'36	retrograde	8782 Jul 23 14:04	22° Ω 06'09	
retrograde	8781 Aug 11 10:35	11° m 09'20		evening set	8782 Jul 25 12:05	21° Ω 54'32	
evening set	8781 Aug 13 08:05	10° m 59'52		desc. node	8782 Jul 31 08:44	19° Ω 19'07	
desc. node	8781 Aug 13 11:38	10° Mp 58'21		inferior conj	8782 Aug 02 20:11	17° Ω 39'58	
inferior conj	8781 Aug 22 08:36	7° Mp 00′22		minimum elong	8782 Aug 02 18:14	17° Ω 43′20	
minimum elong	8781 Aug 22 01:18	7° Mg 11′20	2°38'43	min. Earth dist.	8782 Aug 05 18:36	15° Ω 38'55	0.56366 AU
min. Earth dist.	8781 Aug 24 04:37	5° Mp 54'14	0.55075 AU	morning rise	8782 Aug 10 21:17	12° Ω 49'06	
morning rise	8781 Aug 30 17:01	2° Mp 45'24		direct	8782 Aug 16 04:47	11° Ω 42'54	
direct	8781 Sep 04 04:43	2°Mp01'31		morning max el	8782 Aug 30 09:59	19° Ω 00'21	25°52'43
morning max el	8781 Sep 17 20:54	8° Mp 45'00	24°13'19		8782 Sep 08 16:30	0° m ∤	
	8781 Oct 03 10:23	0∘ ⊽		asc. node	8782 Sep 22 19:37	23° m 59'47	
asc. node	8781 Oct 05 22:41	4° ≏ 34'59			8782 Sep 25 18:15	0∘ ত	
morning set	8781 Oct 12 18:05	18° ≏ 19'26		morning set	8782 Sep 27 05:16	3° ჲ 04'48	
	8781 Oct 18 03:14	0° M					
				superior conj	8782 Oct 04 02:05	18° ≏ 06'49	1°32'06
				0 mp 0 - 1 - 1 - 1 - 1	8782 Oct 04 02.03	10 -00 17	1 32 00
superior conj	8781 Oct 19 15:26	3° ™ 17'34	1°39'24	minimum elong	8782 Oct 04 02:03 8782 Oct 04 00:23	17° ⊆ 57'25	1°32'00
superior conj minimum elong	8781 Oct 19 15:26 8781 Oct 19 14:36		1°39'24 1°39'30				
				minimum elong	8782 Oct 04 00:23	17° ≏ 57'25	1°32'00
minimum elong	8781 Oct 19 14:36	3°M13'01	1°39'30	minimum elong	8782 Oct 04 00:23 8782 Oct 05 01:32	17° ♀ 57'25 20° ♀ 16'14	1°32'00
minimum elong max. Earth dist.	8781 Oct 19 14:36 8781 Oct 21 18:59	3°M13'01 7°M56'35	1°39'30	minimum elong max. Earth dist.	8782 Oct 04 00:23 8782 Oct 05 01:32 8782 Oct 09 13:03	17° £ 57'25 20° £ 16'14 0° M	1°32'00
minimum elong max. Earth dist.	8781 Oct 19 14:36 8781 Oct 21 18:59 8781 Oct 27 01:14	3°M13'01 7°M56'35 18°M56'53	1°39'30	minimum elong max. Earth dist.	8782 Oct 04 00:23 8782 Oct 05 01:32 8782 Oct 09 13:03 8782 Oct 11 02:13	17° № 57'25 20° № 16'14 0° M 3° M 15'45	1°32'00
minimum elong max. Earth dist. evening rise	8781 Oct 19 14:36 8781 Oct 21 18:59 8781 Oct 27 01:14 8781 Nov 01 17:46 8781 Nov 09 10:16	3°M.13'01 7°M.56'35 18°M.56'53 0° ₹ 13° ₹23'38	1°39'30	minimum elong max. Earth dist. evening rise desc. node	8782 Oct 04 00:23 8782 Oct 05 01:32 8782 Oct 09 13:03 8782 Oct 11 02:13 8782 Oct 25 12:29 8782 Oct 27 07:21	17° 2 57'25 20° 2 16'14 0° M 3° M 15'45 0° ⊀ 2° ₹ 49'26	1°32'00 1.31992 AU
minimum elong max. Earth dist. evening rise desc. node	8781 Oct 19 14:36 8781 Oct 21 18:59 8781 Oct 27 01:14 8781 Nov 01 17:46 8781 Nov 09 10:16 8781 Nov 20 18:56	3°M13'01 7°M56'35 18°M56'53 0°⊀ 13°⊀23'38 0°♂	1°39'30 1.32821 AU	minimum elong max. Earth dist. evening rise desc. node evening max el	8782 Oct 04 00:23 8782 Oct 05 01:32 8782 Oct 09 13:03 8782 Oct 11 02:13 8782 Oct 25 12:29 8782 Oct 27 07:21 8782 Nov 12 00:43	17° \$\alpha\$ 57'25 20° \$\alpha\$ 16'14 0° \$\mathbb{M}\$ 3° \$\mathbb{M}\$ 15'45 0° \$\nr\$' 2° \$\nr\$' 49'26 22° \$\nr\$' 44'07	1°32'00
minimum elong max. Earth dist. evening rise desc. node evening max el	8781 Oct 19 14:36 8781 Oct 21 18:59 8781 Oct 27 01:14 8781 Nov 01 17:46 8781 Nov 09 10:16 8781 Nov 20 18:56 8781 Nov 29 16:13	3°M13'01 7°M56'35 18°M56'53 0°ズ 13°ズ23'38 0°℧ 10°℧01'54	1°39'30 1.32821 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	8782 Oct 04 00:23 8782 Oct 05 01:32 8782 Oct 09 13:03 8782 Oct 11 02:13 8782 Oct 25 12:29 8782 Oct 27 07:21 8782 Nov 12 00:43 8782 Nov 25 20:47	17° \$\sim 57'25\$ 20° \$\sim 16'14\$ 0° \$\mathbb{M}\$ 3° \$\mathbb{M}\$ 15'45\$ 0° \$\stackled{x}\$ 2° \$\tilde{x}\$ 44'07 29° \$\tilde{x}\$ 57'31	1°32'00 1.31992 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	8781 Oct 19 14:36 8781 Oct 21 18:59 8781 Oct 27 01:14 8781 Nov 01 17:46 8781 Nov 09 10:16 8781 Nov 20 18:56 8781 Nov 29 16:13 8781 Dec 13 08:22	3°M13'01 7°M56'35 18°M56'53 0°ズ 13°ズ23'38 0°G 10°G01'54 17°G20'51	1°39'30 1.32821 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	8782 Oct 04 00:23 8782 Oct 05 01:32 8782 Oct 09 13:03 8782 Oct 11 02:13 8782 Oct 25 12:29 8782 Oct 27 07:21 8782 Nov 12 00:43 8782 Nov 25 20:47 8782 Dec 02 22:36	17° \$\sim 57'25\$ 20° \$\sim 16'14\$ 0° \$\mathbb{M}\$ 3° \$\mathbb{M}\$15'45\$ 0° \$\stacklet{\sigma}\$ 2° \$\stacklet{\sigma}\$44'07\$ 29° \$\stacklet{\sigma}\$57'31\$ 27° \$\stacklet{\sigma}\$39'00	1°32'00 1.31992 AU 27°20'46
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	8781 Oct 19 14:36 8781 Oct 21 18:59 8781 Oct 27 01:14 8781 Nov 01 17:46 8781 Nov 09 10:16 8781 Nov 20 18:56 8781 Nov 29 16:13 8781 Dec 13 08:22 8781 Dec 20 08:35	3°M13'01 7°M56'35 18°M56'53 0°ズ 13°ズ23'38 0°उ 10°उ01'54 17°उ20'51 14°उ49'13	1°39'30 1.32821 AU 27°28'28	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	8782 Oct 04 00:23 8782 Oct 05 01:32 8782 Oct 09 13:03 8782 Oct 11 02:13 8782 Oct 25 12:29 8782 Oct 27 07:21 8782 Nov 12 00:43 8782 Nov 25 20:47 8782 Dec 02 22:36 8782 Dec 06 15:06	17° \$\sim 57'25\$ 20° \$\sim 16'14\$ 0° \$\mathbb{M}\$ 3° \$\mathbb{M}\$15'45\$ 0° \$\stacklet{\sigma}\$ 2° \$\stacklet{\sigma}\$44'07\$ 29° \$\stacklet{\sigma}\$57'31\$ 27° \$\stacklet{\sigma}\$39'00\$ 24° \$\stacklet{\sigma}\$48'50	1°32'00 1.31992 AU 27°20'46 0.61739 AU
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minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	8781 Oct 19 14:36 8781 Oct 21 18:59 8781 Oct 27 01:14 8781 Nov 01 17:46 8781 Nov 09 10:16 8781 Nov 20 18:56 8781 Nov 29 16:13 8781 Dec 13 08:22 8781 Dec 20 08:35 8781 Dec 24 02:48 8781 Dec 26 17:31	3°M13'01 7°M56'35 18°M56'53 0°ダ 13°ダ23'38 0°℧ 10°℧01'54 17°℧20'51 14°℧49'13 11°℧33'04 8°℧53'27	1°39'30 1.32821 AU 27°28'28 0.63675 AU -2°02'57	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	8782 Oct 04 00:23 8782 Oct 05 01:32 8782 Oct 09 13:03 8782 Oct 11 02:13 8782 Oct 25 12:29 8782 Oct 27 07:21 8782 Nov 12 00:43 8782 Nov 25 20:47 8782 Dec 02 22:36 8782 Dec 06 15:06 8782 Dec 09 15:19 8782 Dec 09 21:30	17° \$\Delta 57'25\$ 20° \$\Delta 16'14\$ 0° \$\mathbb{M}\$. 3° \$\mathbb{M}\$.15'45\$ 0° \$\delta \delta '\delta '\del	1°32'00 1.31992 AU 27°20'46 0.61739 AU
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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.	8781 Oct 19 14:36 8781 Oct 21 18:59 8781 Oct 27 01:14 8781 Nov 01 17:46 8781 Nov 09 10:16 8781 Nov 20 18:56 8781 Nov 29 16:13 8781 Dec 13 08:22 8781 Dec 20 08:35 8781 Dec 24 02:48 8781 Dec 26 17:31 8781 Dec 26 17:31 8781 Dec 26 21:24 8782 Jan 01 22:09 8782 Jan 02 12:04 8782 Jan 02 12:04 8782 Jan 11 10:31 8782 Jan 11 10:31 8782 Jan 26 23:45 8782 Jan 27 22:52 8782 Feb 05 09:35 8782 Feb 09 13:42 8782 Feb 13 23:22 8782 Feb 15 08:29 8782 Feb 15 08:29 8782 Feb 25 03:42 8782 Mar 05 09:28 8782 Mar 25 17:02	3°M13'01 7°M56'35 18°M56'53 0°ズ 13°ズ23'38 0°उ 10°उ01'54 17°उ20'51 14°उ49'13 11°उ33'04 8°उ53'27 8°उ43'32 3°उ49'53 3°उ34'51 3°उ06'22 6°उ29'17 0°≈ 1°≈39'20 15°≈59'39 22°≈52'55 22°≈39'27 0°Ж 2°Ж12'08 17°Ж30'14 0°℃ 27°℃35'47	1°39'30 1.32821 AU 27°28'28 0.63675 AU -2°02'57 2°01'10 17°48'44	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 max. Earth dist.	8782 Oct 04 00:23 8782 Oct 05 01:32 8782 Oct 09 13:03 8782 Oct 11 02:13 8782 Oct 25 12:29 8782 Oct 27 07:21 8782 Nov 12 00:43 8782 Nov 25 20:47 8782 Dec 02 22:36 8782 Dec 06 15:06 8782 Dec 09 15:19 8782 Dec 16 22:41 8782 Dec 19 04:15 8782 Dec 19 04:15 8782 Dec 19 04:15 8782 Dec 26 02:48 8783 Jan 02 08:47 8783 Jan 10 20:22 8783 Jan 19 08:47 8783 Jan 21 16:28 8783 Jan 21 17:33 8783 Jan 21 17:33 8783 Jan 21 123:22 8783 Jan 23 06:32 8783 Jan 28 23:55 8783 Feb 04 20:11 8783 Feb 06 15:49	17° \$\sim_57'25\$ 20° \$\sim_16'14\$ 0° \$\mathbb{m}\$ 3° \$\mathbb{m}.15'45\$ 0° \$\stack** \frac{7}{2} \sim_49'26\$ 22° \$\stack** \frac{7}{4}4'07\$ 29° \$\stack** \frac{7}{5}7'31\$ 27° \$\stack** \frac{7}{3}9'00\$ 24° \$\stack** \frac{7}{4}8'50\$ 22° \$\stack** \frac{7}{0}6'01\$ 12° \$\stack** \frac{7}{5}2'01\$ 17° \$\stack** \frac{7}{0}6'00\$ 16° \$\stack** \frac{7}{4}4'36\$ 16° \$\stack** \frac{7}{4}6'18\$ 20° \$\stack** \frac{7}{1}5'15\$ 0° \$\stack** \frac{7}{6}49'35\$ 16° \$\stack** \frac{7}{6}49'17\$ 4° \$\stack** \frac{7}{6}05'15\$ 3° \$\stack** \frac{7}{6}10'17\$ 6° \$\stack** \frac{7}{6}14'13\$ 27° \$\stack** \frac{7}{6}10'11\$ 0° \$\frac{7}{6}\$	1°32'00 1.31992 AU 27°20'46 0.61739 AU -3°14'06 3°11'42 17°51'31
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. evening rise	8781 Oct 19 14:36 8781 Oct 21 18:59 8781 Oct 27 01:14 8781 Nov 01 17:46 8781 Nov 09 10:16 8781 Nov 20 18:56 8781 Nov 29 16:13 8781 Dec 13 08:22 8781 Dec 20 08:35 8781 Dec 24 02:48 8781 Dec 26 17:31 8781 Dec 26 17:31 8781 Dec 26 21:24 8782 Jan 01 22:09 8782 Jan 02 12:04 8782 Jan 04 21:55 8782 Jan 11 10:31 8782 Jan 26 23:45 8782 Jan 27 22:52 8782 Feb 05 09:35 8782 Feb 09 13:42 8782 Feb 09 10:24 8782 Feb 13 23:22 8782 Feb 15 08:29 8782 Feb 25 03:42 8782 Mar 05 09:28 8782 Mar 28 08:38	3°M13'01 7°M56'35 18°M56'53 0° ** 13° ** 23'38 0° 5 10° 501'54 17° 520'51 14° 549'13 11° 533'04 8° 553'27 8° 543'32 3° 549'53 3° 549'53 3° 534'51 3° 506'22 6° 529'17 0° 1° 839'20 15° 859'39 22° 852'55 22° 839'27 0° 17 0° 17 20° 17 20° 18 20° 18 20° 18 20° 18 20° 18 20° 18 20° 18 20° 18 20° 18 20° 18 20° 18 20° 18 20° 18 20° 18 20° 21 21 21 21 21 21 21 21 21 21 21 21 21	1°39'30 1.32821 AU 27°28'28 0.63675 AU -2°02'57 2°01'10 17°48'44 -0°30'13 0°29'35 1.44602 AU	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. evening rise	8782 Oct 04 00:23 8782 Oct 05 01:32 8782 Oct 09 13:03 8782 Oct 11 02:13 8782 Oct 25 12:29 8782 Oct 27 07:21 8782 Nov 12 00:43 8782 Nov 25 20:47 8782 Dec 02 22:36 8782 Dec 06 15:06 8782 Dec 09 15:19 8782 Dec 09 21:30 8782 Dec 16 22:41 8782 Dec 19 04:15 8782 Dec 19 04:15 8782 Dec 19 04:15 8782 Dec 26 02:48 8783 Jan 02 08:47 8783 Jan 10 20:22 8783 Jan 19 08:47 8783 Jan 21 16:28 8783 Jan 21 17:33 8783 Jan 21 17:33 8783 Jan 21 11:44 8783 Jan 21 23:22 8783 Jan 23 06:32 8783 Jan 23 06:32 8783 Jan 24 23:55 8783 Feb 04 20:11 8783 Feb 06 15:49 8783 Feb 07 25:10	17° \$\sim_57'25\$ 20° \$\sim_16'14\$ 0° \$\mathbb{m}\$ 3° \$\mathbb{m}.15'45\$ 0° \$\stack** \frac{7}{2} \text{*} \frac{7}{2} \text{*} \frac{9}{2} \text{*} \frac{7}{2} \text{*} \frac{9}{2} \text{*} \frac{7}{2} \text{*} \frac{9}{2} \text{*} \frac{1}{2} \text{*} 1	1°32'00 1.31992 AU 27°20'46 0.61739 AU -3°14'06 3°11'42 17°51'31 0°11'47 0°11'48
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 evening max el asc. node	8781 Oct 19 14:36 8781 Oct 21 18:59 8781 Oct 27 01:14 8781 Nov 01 17:46 8781 Nov 09 10:16 8781 Nov 20 18:56 8781 Nov 29 16:13 8781 Dec 13 08:22 8781 Dec 20 08:35 8781 Dec 24 02:48 8781 Dec 26 17:31 8781 Dec 26 21:24 8782 Jan 01 22:09 8782 Jan 02 12:04 8782 Jan 04 21:55 8782 Jan 11 10:31 8782 Jan 26 23:45 8782 Jan 27 22:52 8782 Feb 05 09:35 8782 Feb 09 13:42 8782 Feb 09 10:24 8782 Feb 13 23:22 8782 Feb 15 08:29 8782 Feb 5 03:42 8782 Mar 05 09:28 8782 Mar 25 17:02 8782 Mar 28 08:38 8782 Mar 30 20:59	3°M13'01 7°M56'35 18°M56'53 0° 47 13° 4723'38 0° 57 10° 501'54 17° 520'51 14° 549'13 11° 533'04 8° 553'27 8° 543'32 3° 549'53 3° 534'51 3° 506'22 6° 529'17 0° 1° 239'20 15° 559'39 22° 552'2° 39'27 0° 47 2° 4735'47 0° 47 0° 5735'47 0° 5736'25	1°39'30 1.32821 AU 27°28'28 0.63675 AU -2°02'57 2°01'10 17°48'44 -0°30'13 0°29'35 1.44602 AU	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 max. Earth dist. evening rise	8782 Oct 04 00:23 8782 Oct 05 01:32 8782 Oct 09 13:03 8782 Oct 11 02:13 8782 Oct 25 12:29 8782 Oct 27 07:21 8782 Nov 12 00:43 8782 Nov 25 20:47 8782 Dec 02 22:36 8782 Dec 06 15:06 8782 Dec 09 15:19 8782 Dec 16 22:41 8782 Dec 19 04:15 8782 Dec 19 04:15 8782 Dec 19 04:15 8782 Dec 26 02:48 8783 Jan 02 08:47 8783 Jan 10 20:22 8783 Jan 19 08:47 8783 Jan 21 16:28 8783 Jan 21 17:33 8783 Jan 21 11:44 8783 Jan 21 11:44 8783 Jan 21 23:22 8783 Jan 23 06:32 8783 Jan 23 06:32 8783 Jan 24 23:55 8783 Feb 04 20:11 8783 Feb 06 15:49 8783 Mar 08 13:13	17° \$\sim_57'25\$ 20° \$\sim_16'14\$ 0° \$\mathbb{m}\$ 3° \$\mathbb{m}.15'45\$ 0° \$\stack** 2° \$\times^44'26\$ 22° \$\times^44'07\$ 29° \$\times^55'31\$ 27° \$\times^39'00\$ 24° \$\times^448'50\$ 22° \$\times^06'01\$ 17° \$\times^06'00\$ 16° \$\times^444'36\$ 16° \$\times^446'18\$ 20° \$\times^115'15\$ 0° \$\times^06'39\$ 4° \$\infty 05'15\$ 3° \$\infty 40'17\$ 4° \$\infty 30'10\$ 6° \$\infty 42'55\$ 16° \$\infty 14'13\$ 27° \$\infty 10'11\$ 0° \$\times^115'30\$	1°32'00 1.31992 AU 27°20'46 0.61739 AU -3°14'06 3°11'42 17°51'31 0°11'47 0°11'48
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. evening rise	8781 Oct 19 14:36 8781 Oct 21 18:59 8781 Oct 27 01:14 8781 Nov 01 17:46 8781 Nov 09 10:16 8781 Nov 20 18:56 8781 Nov 29 16:13 8781 Dec 13 08:22 8781 Dec 20 08:35 8781 Dec 24 02:48 8781 Dec 26 17:31 8781 Dec 26 17:31 8781 Dec 26 21:24 8782 Jan 01 22:09 8782 Jan 02 12:04 8782 Jan 04 21:55 8782 Jan 11 10:31 8782 Jan 26 23:45 8782 Jan 27 22:52 8782 Feb 05 09:35 8782 Feb 09 13:42 8782 Feb 09 10:24 8782 Feb 13 23:22 8782 Feb 15 08:29 8782 Feb 25 03:42 8782 Mar 05 09:28 8782 Mar 28 08:38	3°M13'01 7°M56'35 18°M56'53 0° ** 13° ** 23'38 0° 5 10° 501'54 17° 520'51 14° 549'13 11° 533'04 8° 553'27 8° 543'32 3° 549'53 3° 549'53 3° 534'51 3° 506'22 6° 529'17 0° 1° 839'20 15° 859'39 22° 852'55 22° 839'27 0° 17 0° 17 20° 17 20° 18 20° 18 20° 18 20° 18 20° 18 20° 18 20° 18 20° 18 20° 18 20° 18 20° 18 20° 18 20° 18 20° 18 20° 21 21 21 21 21 21 21 21 21 21 21 21 21	1°39'30 1.32821 AU 27°28'28 0.63675 AU -2°02'57 2°01'10 17°48'44 -0°30'13 0°29'35 1.44602 AU	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. evening rise	8782 Oct 04 00:23 8782 Oct 05 01:32 8782 Oct 09 13:03 8782 Oct 11 02:13 8782 Oct 25 12:29 8782 Oct 27 07:21 8782 Nov 12 00:43 8782 Nov 25 20:47 8782 Dec 02 22:36 8782 Dec 06 15:06 8782 Dec 09 15:19 8782 Dec 09 21:30 8782 Dec 16 22:41 8782 Dec 19 04:15 8782 Dec 19 04:15 8782 Dec 19 04:15 8782 Dec 26 02:48 8783 Jan 02 08:47 8783 Jan 10 20:22 8783 Jan 19 08:47 8783 Jan 21 16:28 8783 Jan 21 17:33 8783 Jan 21 17:33 8783 Jan 21 11:44 8783 Jan 21 23:22 8783 Jan 23 06:32 8783 Jan 23 06:32 8783 Jan 24 23:55 8783 Feb 04 20:11 8783 Feb 06 15:49 8783 Feb 07 25:10	17° \$\sim_57'25\$ 20° \$\sim_16'14\$ 0° \$\mathbb{m}\$ 3° \$\mathbb{m}.15'45\$ 0° \$\stack** \frac{7}{2} \text{*} \frac{7}{2} \text{*} \frac{9}{2} \text{*} \frac{7}{2} \text{*} \frac{9}{2} \text{*} \frac{7}{2} \text{*} \frac{9}{2} \text{*} \frac{1}{2} \text{*} 1	1°32'00 1.31992 AU 27°20'46 0.61739 AU -3°14'06 3°11'42 17°51'31 0°11'47 0°11'48

	9792 M 22 05.12	14° Υ 55'06			0704 E-L 20 12-20	1° Y '07'20	
evening set	8783 Mar 22 05:13		20.4211.4	retrograde	8784 Feb 29 13:38	0° Υ 21'00	
inferior conj	8783 Mar 27 12:39	8° Υ 36'32		asc. node	8784 Mar 03 15:10		
minimum elong	8783 Mar 27 10:32	8° Y 43'55	2°42'43		8784 Mar 04 05:54	30° ₹	
min. Earth dist.	8783 Mar 27 14:30	8° Y 30'05	0.68405 AU	evening set	8784 Mar 05 12:08	29° ∺ 04'20	
morning rise	8783 Apr 01 15:42	2° Y 24'32		inferior conj	8784 Mar 10 21:25	22° ∺ 38'29	2°10'27
direct	8783 Apr 06 14:26	0° Ƴ 16'48		minimum elong	8784 Mar 10 19:11	22°) 46′11	2°09'49
morning max el	8783 Apr 16 09:53	6° Ƴ 04'09	22°38'34	min. Earth dist.	8784 Mar 10 11:17	23° ∺ 13'30	0.68436 AU
desc. node	8783 Apr 21 06:26	11° Y 30'01		morning rise	8784 Mar 16 02:09	16°) 31′35	
	8783 May 04 20:41	6°		direct	8784 Mar 20 11:03	14°) 45′54	
morning set	8783 May 20 10:15	24° 8 09'51		morning max el	8784 Mar 29 01:06	19°) 43′20	21°14'04
Č	8783 May 23 22:27	0° I I		Ü	8784 Apr 06 14:47	$0^{\circ}\Upsilon$	
max. Earth dist.	8783 May 25 04:12	2° Ⅱ 06'01	1.40375 AU	desc. node	8784 Apr 07 03:22	0° Υ 42'16	
max. Latin dist.	0705 May 25 04.12	2 110001	1.40373710	dese. Hode	8784 Apr 27 01:03	0°8	
	0702 1 01 22 50	1.50 T 4.5100	1027147	. ,	•	_	
superior conj	8783 Jun 01 22:58	15° Ⅱ 46'00		morning set	8784 Apr 29 03:12	3° 8 16'18	1 10 170 1 11
minimum elong	8783 Jun 02 04:48	16° Ⅱ 12'22	1°3/19	max. Earth dist.	8784 May 06 06:29	14° 8 43'31	1.42472 AU
	8783 Jun 09 15:04	0°9				4.	
evening rise	8783 Jun 11 22:54	4° © 24'05		superior conj	8784 May 13 13:35	26° 8 56'44	
asc. node	8783 Jun 13 16:58	7° © 42'34		minimum elong	8784 May 13 18:51	27° 8 19'19	2°01'06
	8783 Jun 27 20:15	$0 ^{\circ} \Omega$			8784 May 15 08:08	$\Pi^{\circ}0$	
evening max el	8783 Jun 28 00:15	0° Ω 09'58	18°24'26	evening rise	8784 May 24 23:55	17° Ⅱ 09'42	
retrograde	8783 Jul 05 12:39	3° Ω 55'39		asc. node	8784 May 30 14:00	27° I 109'29	
evening set	8783 Jul 07 17:00	3° Ω 37'30			8784 Jun 01 05:27	0° ©	
5 / T 8 2 2 2	8783 Jul 14 00:54	30° ₹ 5		evening max el	8784 Jun 10 11:08	13°904'45	18°06'49
inferior conj	8783 Jul 15 05:21	29° © 03'07	0°53'20	retrograde	8784 Jun 17 04:39	16°930'25	10 00 19
minimum elong	8783 Jul 15 07:10	28°959'26	0°52'30	evening set	8784 Jun 19 16:39	16°902'16	
U			0 32 30	=			2005116
desc. node	8783 Jul 18 05:49	26°936'38	0.50200.411	inferior conj	8784 Jun 26 11:10	11°907'47	2°05'16
min. Earth dist.	8783 Jul 18 14:16	26°920'15	0.58288 AU	minimum elong	8784 Jun 26 14:09	11°500'44	2°04'12
morning rise	8783 Jul 22 17:54	23° © 36'20		min. Earth dist.	8784 Jun 29 17:24	8° © 04'58	0.60516 AU
direct	8783 Jul 28 19:18	22° © 00'22		morning rise	8784 Jul 03 08:57	5° © 14'33	
morning max el	8783 Aug 12 04:42	29° © 42'34	27°08'34	desc. node	8784 Jul 04 02:54	4°9647'25	
	8783 Aug 12 11:48	$0 {\circ} \Omega$		direct	8784 Jul 09 22:33	3° 5 07'38	
	8783 Sep 02 14:32	0° m p		morning max el	8784 Jul 24 06:08	11° © 05'08	27°49'44
asc. node	8783 Sep 09 16:34	13° m 43'09			8784 Aug 08 00:59	$0^{\circ}\Omega$	
morning set	8783 Sep 11 14:15	17° m /41'21			8784 Aug 24 19:20	0° m)	
-	8783 Sep 17 06:06	0० ⊽		morning set	8784 Aug 25 19:13	2° m) 03'07	
	•			asc. node	8784 Aug 26 13:31	3° m 38'36	
superior conj	8783 Sep 18 13:54	2° £ 56'26	1°19'23	max. Earth dist.	8784 Aug 31 20:37	15° m 03'30	1.31717 AU
minimum elong	8783 Sep 18 11:43	2° £ 44'21	1°19'05		0,0,1110,011		
max. Earth dist.	8783 Sep 18 11:20	2° £ 42'11	1.31625 AU	superior conj	8784 Sep 02 01:01	17° m) 40'11	1°01'39
evening rise	8783 Sep 25 08:51	17° Ω 48'33	1.51025 110	minimum elong	8784 Sep 01 22:50	17° m) 28'03	1°01'12
evening rise	8783 Oct 01 08:52	0°M		minimum clong	8784 Sep 07 22:30 8784 Sep 07 15:24	0° ⊡	1 01 12
					•		
desc. node	8783 Oct 14 04:28	21°M33'26		evening rise	8784 Sep 08 18:54	2° ഫ 28'23	
	8783 Oct 20 16:40	0° ∡ ¹			8784 Sep 23 11:01	0° M ,	
evening max el	8783 Oct 25 02:51	4° ₹ 39'41	26°39'07	desc. node	8784 Sep 30 01:36	9° M ₊19'05	
retrograde	8783 Nov 08 00:50	11° ×7 47'21			•		
evening set				evening max el	8784 Oct 05 21:05	15° M 44'41	25°26'10
min. Earth dist.	8783 Nov 14 19:16	9° ∡ 52'36		evening max el retrograde	•		25°26'10
	8783 Nov 14 19:16 8783 Nov 18 16:40		0.59650 AU	-	8784 Oct 05 21:05	15° M 44'41	25°26'10
inferior conj				retrograde	8784 Oct 05 21:05 8784 Oct 19 18:55	15°M44'41 22°M46'02 21°M24'22	25°26'10 0.57611 AU
inferior conj minimum elong	8783 Nov 18 16:40	7° ∡ 16'51		retrograde evening set	8784 Oct 05 21:05 8784 Oct 19 18:55 8784 Oct 25 17:45	15°M44'41 22°M46'02 21°M24'22	0.57611 AU
minimum elong	8783 Nov 18 16:40 8783 Nov 21 21:25 8783 Nov 22 04:53	7° х 16′51 4° х 45′38	-4°22'16	retrograde evening set min. Earth dist. inferior conj	8784 Oct 05 21:05 8784 Oct 19 18:55 8784 Oct 25 17:45 8784 Oct 30 09:12 8784 Nov 02 08:37	15°M44'41 22°M46'02 21°M24'22 18°M45'55 16°M43'33	0.57611 AU -5°15'58
	8783 Nov 18 16:40 8783 Nov 21 21:25 8783 Nov 22 04:53 8783 Nov 29 16:57	7° ₹ 16'51 4° ₹ 45'38 4° ₹ 30'53 0° ₹ 07'20	-4°22'16	retrograde evening set min. Earth dist. inferior conj minimum elong	8784 Oct 05 21:05 8784 Oct 19 18:55 8784 Oct 25 17:45 8784 Oct 30 09:12 8784 Nov 02 08:37 8784 Nov 02 14:25	15°M44'41 22°M46'02 21°M24'22 18°M45'55 16°M43'33	0.57611 AU -5°15'58
minimum elong morning rise	8783 Nov 18 16:40 8783 Nov 21 21:25 8783 Nov 22 04:53 8783 Nov 29 16:57 8783 Nov 30 05:36	7°×16'51 4°×145'38 4°×130'53 0°×107'20 30°RM	-4°22'16	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	8784 Oct 05 21:05 8784 Oct 19 18:55 8784 Oct 25 17:45 8784 Oct 30 09:12 8784 Nov 02 08:37 8784 Nov 02 14:25 8784 Nov 10 13:24	15°M44'41 22°M46'02 21°M24'22 18°M45'55 16°M43'33 16°M33'35 12°M27'52	0.57611 AU -5°15'58
minimum elong	8783 Nov 18 16:40 8783 Nov 21 21:25 8783 Nov 22 04:53 8783 Nov 29 16:57 8783 Nov 30 05:36 8783 Dec 01 21:46	7°×16'51 4°×145'38 4°×130'53 0°×107'20 30°RM 29°M49'44	-4°22'16	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	8784 Oct 05 21:05 8784 Oct 19 18:55 8784 Oct 25 17:45 8784 Oct 30 09:12 8784 Nov 02 08:37 8784 Nov 02 14:25 8784 Nov 10 13:24 8784 Nov 12 22:13	15°M44'41 22°M46'02 21°M24'22 18°M45'55 16°M43'33 16°M33'35 12°M27'52	0.57611 AU -5°15'58 5°14'57
minimum elong morning rise direct	8783 Nov 18 16:40 8783 Nov 21 21:25 8783 Nov 22 04:53 8783 Nov 29 16:57 8783 Nov 30 05:36 8783 Dec 01 21:46 8783 Dec 03 13:14	7° ₹ 16'51 4° ₹ 45'38 4° ₹ 30'53 0° ₹ 07'20 30° R IL 29° IL 49'44 0° ₹	-4°22'16	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	8784 Oct 05 21:05 8784 Oct 19 18:55 8784 Oct 25 17:45 8784 Oct 30 09:12 8784 Nov 02 08:37 8784 Nov 02 14:25 8784 Nov 10 13:24 8784 Nov 12 22:13 8784 Nov 21 18:04	15°M44'41 22°M46'02 21°M24'22 18°M45'55 16°M33'35 12°M27'52 12°M10'56 16°M25'05	0.57611 AU -5°15'58
minimum elong morning rise direct asc. node	8783 Nov 18 16:40 8783 Nov 21 21:25 8783 Nov 22 04:53 8783 Nov 29 16:57 8783 Nov 30 05:36 8783 Dec 01 21:46 8783 Dec 03 13:14 8783 Dec 06 16:12	7° × 16'51 4° × 145'38 4° × 130'53 0° × 107'20 30° RM 29° M 49'44 0° × 1 1° × 17'11	-4°22'16 4°20'03	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	8784 Oct 05 21:05 8784 Oct 19 18:55 8784 Oct 25 17:45 8784 Oct 30 09:12 8784 Nov 02 08:37 8784 Nov 02 14:25 8784 Nov 10 13:24 8784 Nov 12 22:13 8784 Nov 21 18:04 8784 Nov 22 13:13	15°M44'41 22°M46'02 21°M24'22 18°M45'55 16°M33'33 16°M33'35 12°M27'52 12°M10'56 16°M25'05	0.57611 AU -5°15'58 5°14'57
minimum elong morning rise direct asc. node morning max el	8783 Nov 18 16:40 8783 Nov 21 21:25 8783 Nov 22 04:53 8783 Nov 29 16:57 8783 Nov 30 05:36 8783 Dec 01 21:46 8783 Dec 03 13:14 8783 Dec 06 16:12 8783 Dec 09 14:33	7°×16'51 4°×145'38 4°×130'53 0°×107'20 30°RM 29°M49'44 0°×1 1°×17'11 3°×137'14	-4°22'16	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	8784 Oct 05 21:05 8784 Oct 19 18:55 8784 Oct 25 17:45 8784 Oct 30 09:12 8784 Nov 02 08:37 8784 Nov 02 14:25 8784 Nov 10 13:24 8784 Nov 12 22:13 8784 Nov 21 18:04 8784 Nov 22 13:13 8784 Dec 01 10:22	15°M44'41 22°M46'02 21°M24'22 18°M45'55 16°M43'33 16°M27'52 12°M27'52 12°M10'56 16°M25'05 17°M13'00 0° ✓	0.57611 AU -5°15'58 5°14'57
minimum elong morning rise direct asc. node	8783 Nov 18 16:40 8783 Nov 21 21:25 8783 Nov 22 04:53 8783 Nov 29 16:57 8783 Nov 30 05:36 8783 Dec 01 21:46 8783 Dec 03 13:14 8783 Dec 06 16:12 8783 Dec 09 14:33 8783 Dec 25 08:34	7° × 16'51 4° × 45'38 4° × 30'53 0° × 07'20 30° RM 29° M 49'44 0° × 1° × 17'11 3° × 37'14 28° × 40'19	-4°22'16 4°20'03	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	8784 Oct 05 21:05 8784 Oct 19 18:55 8784 Oct 25 17:45 8784 Oct 30 09:12 8784 Nov 02 08:37 8784 Nov 02 14:25 8784 Nov 10 13:24 8784 Nov 12 22:13 8784 Nov 21 18:04 8784 Nov 22 13:13	15°M44'41 22°M46'02 21°M24'22 18°M45'55 16°M33'33 16°M33'35 12°M27'52 12°M10'56 16°M25'05	0.57611 AU -5°15'58 5°14'57
minimum elong morning rise direct asc. node morning max el	8783 Nov 18 16:40 8783 Nov 21 21:25 8783 Nov 22 04:53 8783 Nov 29 16:57 8783 Nov 30 05:36 8783 Dec 01 21:46 8783 Dec 03 13:14 8783 Dec 06 16:12 8783 Dec 09 14:33	7°×16'51 4°×145'38 4°×130'53 0°×107'20 30°RM 29°M49'44 0°×1 1°×17'11 3°×137'14	-4°22'16 4°20'03	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	8784 Oct 05 21:05 8784 Oct 19 18:55 8784 Oct 25 17:45 8784 Oct 30 09:12 8784 Nov 02 08:37 8784 Nov 02 14:25 8784 Nov 10 13:24 8784 Nov 12 22:13 8784 Nov 21 18:04 8784 Nov 22 13:13 8784 Dec 01 10:22 8784 Dec 08 06:55	15°M44'41 22°M46'02 21°M24'22 18°M45'55 16°M33'35 12°M27'52 12°M10'56 16°M25'05 17°M13'00 0° 🗷 12° 🗷 58'38	0.57611 AU -5°15'58 5°14'57 18°56'40
minimum elong morning rise direct asc. node morning max el morning set	8783 Nov 18 16:40 8783 Nov 21 21:25 8783 Nov 22 04:53 8783 Nov 29 16:57 8783 Nov 30 05:36 8783 Dec 01 21:46 8783 Dec 03 13:14 8783 Dec 06 16:12 8783 Dec 09 14:33 8783 Dec 25 08:34 8783 Dec 26 01:25	7°ズ16'51 4°ズ45'38 4°ズ30'53 0°ズ07'20 30°RM 29°M49'44 0°ズ 1°ズ17'11 3°ズ37'14 28°ズ40'19 0°云	-4°22'16 4°20'03	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj	8784 Oct 05 21:05 8784 Oct 19 18:55 8784 Oct 25 17:45 8784 Oct 30 09:12 8784 Nov 02 08:37 8784 Nov 02 14:25 8784 Nov 10 13:24 8784 Nov 12 22:13 8784 Nov 21 18:04 8784 Nov 22 13:13 8784 Dec 01 10:22 8784 Dec 08 06:55	15°M.44'41 22°M.46'02 21°M.24'22 18°M.45'55 16°M.43'33 16°M.33'35 12°M.27'52 12°M.10'56 16°M.25'05 17°M.13'00 0° 🗷 12° 🗷 58'38	0.57611 AU -5°15'58 5°14'57 18°56'40
minimum elong morning rise direct asc. node morning max el morning set	8783 Nov 18 16:40 8783 Nov 21 21:25 8783 Nov 22 04:53 8783 Nov 29 16:57 8783 Nov 30 05:36 8783 Dec 01 21:46 8783 Dec 03 13:14 8783 Dec 06 16:12 8783 Dec 09 14:33 8783 Dec 25 08:34 8783 Dec 26 01:25	7°ズ16'51 4°ズ45'38 4°ズ30'53 0°ズ07'20 30°RM 29°M49'44 0°ズ 1°ズ17'11 3°ズ37'14 28°ズ40'19 0°云	-4°22'16 4°20'03 18°13'35	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	8784 Oct 05 21:05 8784 Oct 19 18:55 8784 Oct 25 17:45 8784 Oct 30 09:12 8784 Nov 02 08:37 8784 Nov 02 14:25 8784 Nov 10 13:24 8784 Nov 12 22:13 8784 Nov 21 18:04 8784 Nov 22 13:13 8784 Dec 01 10:22 8784 Dec 08 06:55	15°M.44'41 22°M.46'02 21°M.24'22 18°M.45'55 16°M.43'33 16°M.33'35 12°M.27'52 12°M.10'56 16°M.25'05 17°M.13'00 0° 🗷 12° 🗷 58'38	0.57611 AU -5°15'58 5°14'57 18°56'40
minimum elong morning rise direct asc. node morning max el morning set	8783 Nov 18 16:40 8783 Nov 21 21:25 8783 Nov 22 04:53 8783 Nov 29 16:57 8783 Nov 30 05:36 8783 Dec 01 21:46 8783 Dec 03 13:14 8783 Dec 06 16:12 8783 Dec 09 14:33 8783 Dec 25 08:34 8783 Dec 26 01:25 8784 Jan 03 19:09 8784 Jan 03 22:14	7°ズ16'51 4°ズ45'38 4°ズ30'53 0°ズ07'20 30°RM 29°M49'44 0°ズ 1°ズ17'11 3°ズ37'14 28°ズ40'19 0°云	-4°22'16 4°20'03	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj	8784 Oct 05 21:05 8784 Oct 19 18:55 8784 Oct 25 17:45 8784 Oct 30 09:12 8784 Nov 02 08:37 8784 Nov 02 14:25 8784 Nov 10 13:24 8784 Nov 12 22:13 8784 Nov 21 18:04 8784 Nov 22 13:13 8784 Dec 01 10:22 8784 Dec 08 06:55	15°M.44'41 22°M.46'02 21°M.24'22 18°M.45'55 16°M.43'33 16°M.33'35 12°M.27'52 12°M.10'56 16°M.25'05 17°M.13'00 0° 🗷 12° 🗷 58'38	0.57611 AU -5°15'58 5°14'57 18°56'40
minimum elong morning rise direct asc. node morning max el morning set	8783 Nov 18 16:40 8783 Nov 21 21:25 8783 Nov 22 04:53 8783 Nov 29 16:57 8783 Nov 30 05:36 8783 Dec 01 21:46 8783 Dec 03 13:14 8783 Dec 06 16:12 8783 Dec 09 14:33 8783 Dec 25 08:34 8783 Dec 26 01:25	7°ズ16'51 4°ズ45'38 4°ズ30'53 0°ズ07'20 30°RM 29°M49'44 0°ズ 1°ズ17'11 3°ズ37'14 28°ズ40'19 0°云	-4°22'16 4°20'03 18°13'35	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj	8784 Oct 05 21:05 8784 Oct 19 18:55 8784 Oct 25 17:45 8784 Oct 30 09:12 8784 Nov 02 08:37 8784 Nov 02 14:25 8784 Nov 10 13:24 8784 Nov 12 22:13 8784 Nov 21 18:04 8784 Nov 22 13:13 8784 Dec 01 10:22 8784 Dec 08 06:55	15°M.44'41 22°M.46'02 21°M.24'22 18°M.45'55 16°M.43'33 16°M.33'35 12°M.27'52 12°M.10'56 16°M.25'05 17°M.13'00 0° 🗷 12° 🗷 58'38	0.57611 AU -5°15'58 5°14'57 18°56'40
minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong	8783 Nov 18 16:40 8783 Nov 21 21:25 8783 Nov 22 04:53 8783 Nov 29 16:57 8783 Nov 30 05:36 8783 Dec 01 21:46 8783 Dec 03 13:14 8783 Dec 06 16:12 8783 Dec 09 14:33 8783 Dec 25 08:34 8783 Dec 26 01:25 8784 Jan 03 19:09 8784 Jan 03 22:14	7°ズ16'51 4°ズ45'38 4°ズ30'53 0°ズ07'20 30°RM 29°M49'44 0°ズ 1°ズ17'11 3°ズ37'14 28°ズ40'19 0°उ 16°उ16'21 16°उ30'21	-4°22'16 4°20'03 18°13'35	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong	8784 Oct 05 21:05 8784 Oct 19 18:55 8784 Oct 25 17:45 8784 Oct 30 09:12 8784 Nov 02 08:37 8784 Nov 02 14:25 8784 Nov 10 13:24 8784 Nov 12 22:13 8784 Nov 21 18:04 8784 Nov 22 13:13 8784 Dec 01 10:22 8784 Dec 08 06:55 8784 Dec 16 16:57 8784 Dec 16 20:10 8784 Dec 17 00:01	15°M44'41 22°M46'02 21°M24'22 18°M45'55 16°M43'33 16°M33'35 12°M27'52 12°M10'56 16°M25'05 17°M13'00 0°ズ 12°ズ58'38	0.57611 AU -5°15'58 5°14'57 18°56'40
minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node	8783 Nov 18 16:40 8783 Nov 21 21:25 8783 Nov 22 04:53 8783 Nov 29 16:57 8783 Nov 30 05:36 8783 Dec 01 21:46 8783 Dec 03 13:14 8783 Dec 06 16:12 8783 Dec 09 14:33 8783 Dec 25 08:34 8783 Dec 26 01:25 8784 Jan 03 19:09 8784 Jan 03 22:14 8784 Jan 10 03:30	7°ズ16'51 4°ズ45'38 4°ズ30'53 0°ズ07'20 30°RM 29°M49'44 0°ズ 1°ズ17'11 3°ズ37'14 28°ズ40'19 0°उ 16°♂30'21 16°♂30'21 27°♂27'34	-4°22'16 4°20'03 18°13'35 0°46'30 0°46'16	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	8784 Oct 05 21:05 8784 Oct 19 18:55 8784 Oct 25 17:45 8784 Oct 30 09:12 8784 Nov 02 08:37 8784 Nov 02 14:25 8784 Nov 10 13:24 8784 Nov 12 22:13 8784 Nov 21 18:04 8784 Nov 22 13:13 8784 Dec 01 10:22 8784 Dec 08 06:55 8784 Dec 16 20:10 8784 Dec 17 00:01 8784 Dec 23 16:16	15° M.44'41 22° M.46'02 21° M.24'22 18° M.45'55 16° M.43'33 16° M.33'35 12° M.27'52 12° M.10'56 16° M.25'05 17° M.13'00 0° 29° 26'17 29° 41'42 0° 518'54	0.57611 AU -5°15'58 5°14'57 18°56'40
minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node	8783 Nov 18 16:40 8783 Nov 21 21:25 8783 Nov 22 04:53 8783 Nov 29 16:57 8783 Nov 30 05:36 8783 Dec 01 21:46 8783 Dec 03 13:14 8783 Dec 06 16:12 8783 Dec 09 14:33 8783 Dec 25 08:34 8783 Dec 26 01:25 8784 Jan 03 19:09 8784 Jan 03 22:14 8784 Jan 10 03:30 8784 Jan 11 10:05	7°ズ16'51 4°ズ45'38 4°ズ30'53 0°ズ07'20 30°RM 29°M49'44 0°ズ 1°ズ17'11 3°ズ37'14 28°ズ40'19 0°उ 16°♂30'21 27°♂27'34 29°♂37'54	-4°22'16 4°20'03 18°13'35 0°46'30 0°46'16	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. desc. node	8784 Oct 05 21:05 8784 Oct 19 18:55 8784 Oct 25 17:45 8784 Oct 30 09:12 8784 Nov 02 08:37 8784 Nov 02 14:25 8784 Nov 10 13:24 8784 Nov 12 22:13 8784 Nov 21 18:04 8784 Nov 22 13:13 8784 Dec 01 10:22 8784 Dec 08 06:55 8784 Dec 16 16:57 8784 Dec 16 20:10 8784 Dec 17 00:01 8784 Dec 23 16:16 8784 Dec 27 00:30	15° M.44'41 22° M.46'02 21° M.24'22 18° M.45'55 16° M.43'33 16° M.33'35 12° M.27'52 12° M.10'56 16° M.25'05 17° M.13'00 0° 29° 26'17 29° 41'42 0° 312° 318'54 18° 310'10	0.57611 AU -5°15'58 5°14'57 18°56'40
minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist.	8783 Nov 18 16:40 8783 Nov 21 21:25 8783 Nov 22 04:53 8783 Nov 29 16:57 8783 Nov 30 05:36 8783 Dec 01 21:46 8783 Dec 03 13:14 8783 Dec 06 16:12 8783 Dec 09 14:33 8783 Dec 25 08:34 8783 Dec 26 01:25 8784 Jan 03 19:09 8784 Jan 03 22:14 8784 Jan 10 03:30 8784 Jan 11 10:05 8784 Jan 11 15:18	7°×16'51 4°×145'38 4°×130'53 0°×107'20 30°RM 29°M49'44 0°×117'11 3°×137'14 28°×140'19 0°उ 16°उ16'21 16°उ30'21 27°उ27'34 29°उ37'54 0°≈	-4°22'16 4°20'03 18°13'35 0°46'30 0°46'16	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. desc. node	8784 Oct 05 21:05 8784 Oct 19 18:55 8784 Oct 25 17:45 8784 Oct 30 09:12 8784 Nov 02 08:37 8784 Nov 02 14:25 8784 Nov 10 13:24 8784 Nov 12 22:13 8784 Nov 21 18:04 8784 Nov 22 13:13 8784 Dec 01 10:22 8784 Dec 08 06:55 8784 Dec 16 16:57 8784 Dec 16 20:10 8784 Dec 23 16:16 8784 Dec 27 00:30 8784 Dec 27 13:14	15° M.44'41 22° M.46'02 21° M.24'22 18° M.45'55 16° M.43'33 16° M.33'35 12° M.27'52 12° M.10'56 16° M.25'05 17° M.13'00 0° 2° 29° 26'17 29° 41'42 0° 12° 12° 12° 18'54 18° 10'10 19° 304'49	0.57611 AU -5°15'58 5°14'57 18°56'40
minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise	8783 Nov 18 16:40 8783 Nov 21 21:25 8783 Nov 22 04:53 8783 Nov 29 16:57 8783 Nov 30 05:36 8783 Dec 01 21:46 8783 Dec 03 13:14 8783 Dec 06 16:12 8783 Dec 09 14:33 8783 Dec 25 08:34 8783 Dec 26 01:25 8784 Jan 03 19:09 8784 Jan 03 22:14 8784 Jan 10 03:30 8784 Jan 11 10:05 8784 Jan 11 15:18 8784 Jan 16 05:47 8784 Jan 30 18:41	7°×16'51 4°×145'38 4°×130'53 0°×107'20 30°RM 29°M.49'44 0°×117'11 3°×137'14 28°×140'19 0°उ 16°उ 16'21 16°उ 30'21 27°उ 27'34 29°उ 37'54 0°≈ 7°≈38'10 0°\mathrm{1}	-4°22'16 4°20'03 18°13'35 0°46'30 0°46'16	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. desc. node evening rise	8784 Oct 05 21:05 8784 Oct 19 18:55 8784 Oct 25 17:45 8784 Oct 30 09:12 8784 Nov 02 08:37 8784 Nov 02 14:25 8784 Nov 10 13:24 8784 Nov 12 22:13 8784 Nov 21 18:04 8784 Nov 22 13:13 8784 Dec 01 10:22 8784 Dec 08 06:55 8784 Dec 16 16:57 8784 Dec 16 20:10 8784 Dec 17 00:01 8784 Dec 23 16:16 8784 Dec 27 00:30 8784 Dec 27 13:14 8785 Jan 03 03:38 8785 Jan 24 01:02	15° M.44'41 22° M.46'02 21° M.24'22 18° M.45'55 16° M.43'33 16° M.33'35 12° M.27'52 12° M.10'56 16° M.25'05 17° M.13'00 0° ⊀ 12° ⊀ 26'17 29° ⊀ 41'42 0° ♂ 12° ♂ 18'54 18° ♂ 10'10 19° ♂ 04'49 0° ≈ 0° ₭	0.57611 AU -5°15'58 5°14'57 18°56'40 1°12'20 1°12'10 1.39086 AU
minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist.	8783 Nov 18 16:40 8783 Nov 21 21:25 8783 Nov 22 04:53 8783 Nov 29 16:57 8783 Nov 30 05:36 8783 Dec 01 21:46 8783 Dec 03 13:14 8783 Dec 06 16:12 8783 Dec 09 14:33 8783 Dec 25 08:34 8783 Dec 26 01:25 8784 Jan 03 19:09 8784 Jan 03 22:14 8784 Jan 10 03:30 8784 Jan 11 10:05 8784 Jan 11 15:18 8784 Jan 16 05:47	7°×16'51 4°×145'38 4°×130'53 0°×107'20 30°RM 29°M49'44 0°×1 1°×17'11 3°×137'14 28°×140'19 0°उ 16°उ16'21 16°उ30'21 27°उ27'34 29°उ37'54 0°≈ 7°≈38'10	-4°22'16 4°20'03 18°13'35 0°46'30 0°46'16 1.41239 AU	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. desc. node	8784 Oct 05 21:05 8784 Oct 19 18:55 8784 Oct 25 17:45 8784 Oct 30 09:12 8784 Nov 02 08:37 8784 Nov 02 14:25 8784 Nov 10 13:24 8784 Nov 12 22:13 8784 Nov 21 18:04 8784 Nov 22 13:13 8784 Dec 01 10:22 8784 Dec 08 06:55 8784 Dec 16 16:57 8784 Dec 16 20:10 8784 Dec 17 00:01 8784 Dec 23 16:16 8784 Dec 27 00:30 8784 Dec 27 13:14 8785 Jan 03 03:38	15° M.44'41 22° M.46'02 21° M.24'22 18° M.45'55 16° M.43'33 16° M.33'35 12° M.27'52 12° M.10'56 16° M.25'05 17° M.13'00 0° 2° 29° 26'17 29° 41'42 0° 12° 12° 18° 10'10 19° 304'49 0° ∞	0.57611 AU -5°15'58 5°14'57 18°56'40 1°12'20 1°12'10 1.39086 AU

avanina aat	8785 Feb 17 16:21	13° ¥ 11'58		rotro ara do	8786 Jan 26 16:47	29° ≈ 39'54	
evening set		13 X 11 38 12° X 26'26		retrograde			
asc. node	8785 Feb 18 12:17		0.60061.411	evening set	8786 Feb 01 16:10	27°≈12'36	
min. Earth dist.	8785 Feb 22 07:17	7°) €55'35	0.68061 AU	asc. node	8786 Feb 05 09:25	23°≈16'48	0.68201.177
inferior conj	8785 Feb 23 04:56	6°) 43′04	1°29'01	min. Earth dist.	8786 Feb 06 00:10	22° ≈ 30'55	0.67301 AU
minimum elong	8785 Feb 23 03:04		1°28'27	inferior conj	8786 Feb 07 09:17	20° ≈ 45'37	0°39'14
morning rise	8785 Feb 28 13:54	0°) 42'46		minimum elong	8786 Feb 07 08:19	20° ≈ 48'42	0°39'00
	8785 Mar 01 17:17	30°R≈		morning rise	8786 Feb 13 00:55	14° ≈ 53'51	
direct	8785 Mar 04 09:47	29° ≈ 18′56		direct	8786 Feb 16 09:02	13° ≈ 49'54	
	8785 Mar 07 05:43	0° ℋ		morning max el	8786 Feb 23 06:03	17° ≈ 35'59	19°02'40
morning max el	8785 Mar 11 23:41	3°) 34′43	20°00'59		8786 Mar 04 21:39	0° ∀	
desc. node	8785 Mar 25 00:17	20° ∺ 25'55		greatest brilliancy	8786 Mar 08 22:37	6° ∺ 02'16	-0.8m
	8785 Mar 31 11:01	$0^{\circ}\mathbf{\Upsilon}$		desc. node	8786 Mar 11 21:11	10°) 31′49	
morning set	8785 Apr 08 02:12	11° Y 38'16		morning set	8786 Mar 18 05:55	20° ¥ 22'02	
max. Earth dist.	8785 Apr 18 16:08	28° Ƴ 12'46	1.44153 AU	Č	8786 Mar 24 10:38	$0^{\circ}\mathbf{Y}$	
	8785 Apr 19 18:58	0°8		max. Earth dist.	8786 Apr 01 08:04	12° Y 20'29	1.45216 AU
	0,000p	• •					
superior conj	8785 Apr 24 03:56	7° 8 04'08	-2°12'05	superior conj	8786 Apr 03 19:39	16° Y 15′02	-2°04'24
minimum elong	8785 Apr 24 04:46	7° 8 07'29		minimum elong	8786 Apr 03 13:21	15°Υ50'12	
evening rise	8785 May 07 06:45	29° 8 05'08	2 12 12	minimum clong	8786 Apr 12 10:38	0°8	2 040)
evening rise	,	0° Ⅱ		avanina riaa	8786 Apr 18 15:05	10° 8 02'28	
	8785 May 07 19:32	16° Ⅱ 13'36		evening rise	=	10 3 02 28 0° Ⅱ	
asc. node	8785 May 17 11:05		10000117	4	8786 May 01 00:44		
evening max el	8785 May 25 00:33	26° Ⅲ 20'57	18°08'17	asc. node	8786 May 04 08:10	4° ∏ 47'07	
retrograde	8785 May 31 09:56	29° Ⅱ 41'37		evening max el	8786 May 08 13:20	9° ∏ 50′21	18°28'11
evening set	8785 Jun 03 05:31	29° Ⅱ 01'00		retrograde	8786 May 15 00:21	13° Ⅱ 20′06	
inferior conj	8785 Jun 09 10:00	23° ∏ 47'31	2°51'00	evening set	8786 May 18 03:21	12° Ⅱ 25'36	
minimum elong	8785 Jun 09 12:28	23° Ⅱ 40′53	2°50'17	inferior conj	8786 May 23 21:45	6° Ⅱ 54'32	3°15'07
min. Earth dist.	8785 Jun 12 05:13	20° Ⅱ 48'46	0.62741 AU	minimum elong	8786 May 23 23:01	6°Ⅱ50'46	3°14'47
morning rise	8785 Jun 15 17:44	17° Ⅱ 38'36		min. Earth dist.	8786 May 26 02:14	4° Ⅱ 19'27	0.64717 AU
desc. node	8785 Jun 20 23:57	15° Ⅱ 14'39		morning rise	8786 May 29 17:47	0°Ⅱ38′05	
direct	8785 Jun 22 11:55	15° Ⅱ 07'29			8786 May 30 13:18	30° ₹ 8	
morning max el	8785 Jul 06 12:59	23° Ⅱ 10′14	27°52'35	direct	8786 Jun 05 09:22	27° 8 54'01	
•	8785 Jul 12 14:35	0°ಅ		desc. node	8786 Jun 07 20:58	28° 8 14'13	
	8785 Aug 01 07:43	$0^{\circ}\Omega$			8786 Jun 11 20:33	$\Pi^{\circ}0$	
morning set	8785 Aug 09 18:02	16° Ω 04'03		morning max el	8786 Jun 18 22:53	5° Ⅱ 51′09	27°20'03
asc. node	8785 Aug 13 10:29	23° Ω 41'24		morning man er	8786 Jul 07 09:08	0.2 2	2, 20 03
max. Earth dist.	8785 Aug 15 01:35	27° Ω 09'25	1.32288 AU	morning set	8786 Jul 24 08:07	29° 5 37'22	
max. Larm dist.	8785 Aug 16 09:15	0°m)	1.52200 110	morning sec	8786 Jul 24 12:45	0°Ω	
	0703 Aug 10 07.13	Ų ii		max. Earth dist.	8786 Jul 28 22:42	8° Ω 52'06	1.33350 AU
aumarian aani	8785 Aug 17 09:38	20 m 12/22	0020114		8786 Jul 31 07:27	13° Ω 47'33	1.33330 AU
superior conj	Č	2° Mp 12'23		asc. node	8/80 Jul 31 0/.2/	13 864/33	
minimum elong	8785 Aug 17 07:56	2° Mp 03'09	0°38'47		0707 4 01 12 42	1.60 (0.27)2.2	0012141
evening rise	8785 Aug 24 06:27	17° Mp 09'26		superior conj	8786 Aug 01 13:42	16° Ω 27'23	0°12'41
	8785 Aug 30 13:15	0∘ ⊽		minimum elong	8786 Aug 01 13:04	16° Ω 24'01	0°12'23
desc. node	8785 Sep 16 22:43	25° ≏ 43'26		behind sun begin	8786 Aug 01 09:32	16° Ω 05′18	
evening max el	8785 Sep 17 09:10	26° £ 08'58	23°51'55	behind sun end	8786 Aug 01 16:36	16° Ω 42'45	
	8785 Sep 22 02:49	0°M₊			8786 Aug 07 21:34	0° ™	
retrograde	8785 Oct 01 00:26	2°M58'18		evening rise	8786 Aug 08 17:37	1° m 46'24	
evening set	8785 Oct 05 15:34	2°M11'23			8786 Aug 24 11:20	0∘ ⊽	
	8785 Oct 10 10:21	30°₽ ₽		evening max el	8786 Aug 29 21:59	6° ≙ 21'19	22°12'37
min. Earth dist.	8785 Oct 11 19:38	29° £ 11'51	0.55916 AU	desc. node	8786 Sep 03 19:51	10° ≙ 17'27	
inferior conj	8785 Oct 13 23:29	27° £ 53'32	-5°37'32	retrograde	8786 Sep 11 17:50	12° ≏ 44'31	
minimum elong	8785 Oct 13 23:15	27° £ 53'54	5°37'26	evening set	8786 Sep 14 21:21	12° ≏ 22'36	
morning rise	8785 Oct 22 08:58	23° ≏ 57'19		min. Earth dist.	8786 Sep 23 03:36	8° ≏ 46'10	0.54874 AU
direct	8785 Oct 25 03:29	23° ₽ 37'51		inferior conj	8786 Sep 23 21:40	8° ≏ 20'48	-5°08'21
morning max el	8785 Nov 04 09:50	28° ≏ 27'58	20°02'10	minimum elong	8786 Sep 23 14:04	8° ≏ 31'29	
	8785 Nov 05 22:12	0°M	20 02 10	morning rise	8786 Oct 02 08:24	4° £ 33'12	0 0, 02
asc. node	8785 Nov 09 10:15	4°M18'04		direct	8786 Oct 05 16:51	4° £ 08'10	
morning set	8785 Nov 22 11:58	27°M34'15		morning max el	8786 Oct 17 12:24		21°29'19
morning set	8785 Nov 23 16:32	27 11634 13 0° 🔏		asc. node		22° £ 17'16	21 27 17
	0/03 INOV 23 10:32	υ χ .		asc. Hour	8786 Oct 27 07:14		
aumori ·	0705 N 20 04 52	120.7115140	1920/20		8786 Oct 31 16:52	0°M	
superior conj	8785 Nov 30 04:52		1°29'29	morning set	8786 Nov 06 21:12	12°M20'05	
minimum elong	8785 Nov 30 07:12	13°×27'31	1°29'30		080637	270W 2	100000
max. Earth dist.	8785 Dec 05 22:40	24° ₹ 26'51	1.36950 AU	superior conj	8786 Nov 14 02:52		1°38'44
_	8785 Dec 08 22:29	0° ろ		minimum elong	8786 Nov 14 03:57		1°38'53
evening rise	8785 Dec 09 17:22	1° る 25'36			8786 Nov 15 07:06	0° ∡	
desc. node	8785 Dec 13 21:30	8° පි 46'16		max. Earth dist.	8786 Nov 18 10:05	6° ∡ °21′09	1.35040 AU
	8785 Dec 27 07:14	0° ≈		evening rise	8786 Nov 22 14:42	14° ₹ 31'43	
evening max el	8786 Jan 14 08:08	22° ≈ 34'47	25°40'45	desc. node	8786 Nov 30 18:33	29° ∡ 11'32	

	8786 Dec 01 06:01	ರ°0		desc. node	8787 Nov 17 15:37	19° 1 7'19'44	
	8786 Dec 22 01:00	0° ≈			8787 Nov 24 10:49	0°る	
evening max el	8786 Dec 27 21:29	6° ≈ 18'36	26°40'04	evening max el	8787 Dec 10 10:16	19° る 47'45	27°18'28
retrograde	8787 Jan 09 22:32	13° ≈ 36′08		retrograde	8787 Dec 23 22:21	27° る 08'49	
evening set	8787 Jan 16 09:48	11° ≈ 01'43		evening set	8787 Dec 30 19:04	24° る 33'30	
min. Earth dist.	8787 Jan 20 11:36	6° ≈ 54'46	0.66167 AU	min. Earth dist.	8788 Jan 03 15:29	20°る59'58	0.64673 AU
inferior conj	8787 Jan 22 08:25	4° ≈ 42'09	-0°18'27	inferior conj	8788 Jan 05 23:59	18° る 27'15	-1°23'11
minimum elong	8787 Jan 22 08:56	4° ≈ 40'39	0°18'02	minimum elong	8788 Jan 06 02:32	18° る 20'23	1°21'55
asc. node	8787 Jan 23 06:30	3° ≈ 37′20		asc. node	8788 Jan 10 03:34	14° る 26'03	
	8787 Jan 26 21:27	30°Rる		morning rise	8788 Jan 12 11:34	12° る 59'55	
morning rise	8787 Jan 28 09:01	29° る 01'15		direct	8788 Jan 15 01:06	12° る 25'49	
direct	8787 Jan 31 06:55	28° る 14'06		morning max el	8788 Jan 21 11:26	15° る 48'08	17°55'24
	8787 Feb 04 19:30	0° ≈			8788 Jan 31 16:45	0° ≈	
morning max el	8787 Feb 06 18:50	1° ≈ 42'46	18°20'34	morning set	8788 Feb 07 20:10	11° ≈ 50′58	
morning set	8787 Feb 26 10:20	0°) 22′54		desc. node	8788 Feb 13 15:01	21° ≈ 27'31	
	8787 Feb 26 04:36	0° ∀			8788 Feb 18 20:43	0° ∀	
desc. node	8787 Feb 26 18:05	0°) 53′54					
				superior conj	8788 Feb 21 14:19	4°) €23'23	
superior conj	8787 Mar 14 00:40	25°) €03'44		minimum elong	8788 Feb 21 07:57	3° ¥ 57'55	0°54'51
minimum elong	8787 Mar 13 15:03	24° ¥ 26′05		max. Earth dist.	8788 Feb 25 23:03	11°) 18'51	1.45147 AU
max. Earth dist.	8787 Mar 15 03:29		1.45556 AU	evening rise	8788 Mar 08 15:37	29° ∺ 29'01	
	8787 Mar 17 04:23	0° Υ			8788 Mar 08 23:41	0° Υ	
evening rise	8787 Mar 30 00:01	20° Y ′03'55		greatest brilliancy	8788 Mar 23 08:07	21° Y 40'09	-0.6m
	8787 Apr 05 08:01	0°8			8788 Mar 29 06:01	0°8	
greatest brilliancy	8787 Apr 09 12:41	6° 8 30'47	-0.8m	evening max el	8788 Apr 04 03:40	7° 8 04'51	19°59'01
asc. node	8787 Apr 21 05:15	22° 8 39'55		asc. node	8788 Apr 07 02:20	9° 8 40'07	
evening max el	8787 Apr 21 22:56	23° 8 26'08	19°05'37	retrograde	8788 Apr 11 18:25	11° 8 28'40	
retrograde	8787 Apr 28 20:07	27° 8 17'40		evening set	8788 Apr 15 13:39	10° 8 04'33	
evening set	8787 May 02 06:52	26° 8 08'31		inferior conj	8788 Apr 20 21:57	4° 8 03'31	3°15'42
inferior conj	8787 May 07 18:44	20° 8 21'33	3°22'12	minimum elong	8788 Apr 20 20:51	4° 8 07'16	3°15'29
minimum elong	8787 May 07 18:42	20° 8 21'38	3°22'02	min. Earth dist.	8788 Apr 21 20:34	2° 8 47'14	0.67476 AU
min. Earth dist.	8787 May 09 07:53	18° 8 22'42	0.66313 AU		8788 Apr 24 00:53	30°RΥ 270 0 045146	
morning rise	8787 May 13 06:05	14° 8 02'47		morning rise	8788 Apr 26 03:46	27° Y 45'46 25° Y 09'31	
direct desc. node	8787 May 19 13:35	13° 8 22'36		direct	8788 May 01 23:49	0° 8	
	8787 May 25 17:56 8787 Jun 01 09:25	18° 8 56'06	26°19'04	desc. node	8788 May 11 10:52 8788 May 11 14:53	0° 8 09'02	
morning max el	8787 Jun 10 18:13	0°Ⅱ	20 1904	morning max el	8788 May 13 19:04	2° 8 14'15	24°58'56
	8787 Jun 30 10:02	0° ©		morning max ci	8788 Jun 03 20:29	2 Ο 1413	24 38 30
morning set	8787 Jul 07 09:57	12° © 33'03		morning set	8788 Jun 18 19:10	24° ∏ 39'49	
max. Earth dist.	8787 Jul 11 09:21	20°509'09	1.34895 AU	morning set	8788 Jun 21 18:03	0°95	
max. Bartii dist.	0/0/341 11 09.21	20 30707	1.54075 710	max. Earth dist.	8788 Jun 22 09:57	1°513'07	1.36857 AU
superior conj	8787 Jul 16 10:45	0° Ω 17'42	-0°17'17	max. Dartii dist.	0700 Jun 22 07.57	1 31507	1.50057710
minimum elong	8787 Jul 16 11:45	0°Ω22'49		superior conj	8788 Jun 28 21:52	13° © 36'14	-0°49'14
	8787 Jul 16 07:18	0 ° Ω		minimum elong	8788 Jun 29 00:55	13° © 51'12	
asc. node	8787 Jul 18 04:24	3° £ 52′28		asc. node	8788 Jul 04 01:23	23° © 52'38	
evening rise	8787 Jul 24 02:21	16° Ω 12'25		evening rise	8788 Jul 07 06:23	0° Ω 21′23	
Ü	8787 Jul 31 01:52	0° m)		S	8788 Jul 07 02:08	$0^{\circ}\Omega$	
evening max el	8787 Aug 11 20:08	16° Mp 56'14	20°43'32	evening max el	8788 Jul 24 07:47	28° Ω 14'53	19°33'07
desc. node	8787 Aug 21 16:58	22° m 29'27			8788 Jul 26 06:57	0° m	
retrograde	8787 Aug 23 06:01	22°m/35'29		retrograde	8788 Aug 03 00:40	3° Mp 02'34	
evening set	8787 Aug 25 09:04	22° m 24'30		evening set	8788 Aug 04 20:55	2° m 52'56	
inferior conj	8787 Sep 03 14:02	18° m 27'43	-3°45'11	desc. node	8788 Aug 07 14:03	2°Mp06'32	
minimum elong	8787 Sep 03 04:41	18° m 41'07	3°42'21		8788 Aug 11 17:16	30° R Ω	
min. Earth dist.	8787 Sep 04 12:30	17° m 55'34	0.54722 AU	inferior conj	8788 Aug 13 15:25	28° Ω 48′10	-1°51'30
morning rise	8787 Sep 12 00:13	14° m 28'28		minimum elong	8788 Aug 13 10:22	28° Ω 56'12	1°49'42
direct	8787 Sep 16 00:50	13° m 53'46		min. Earth dist.	8788 Aug 16 00:34	27° Ω 17'33	0.55526 AU
morning max el	8787 Sep 29 04:31	20° m 13'01	23°12'08	morning rise	8788 Aug 21 21:22	24° Ω 18'17	
	8787 Oct 07 10:05	0∘ ⊽		direct	8788 Aug 26 17:15	23° Ω 26′00	
asc. node	8787 Oct 14 04:10	10° ≙ 57'07			8788 Sep 09 05:39	0° ™	
morning set	8787 Oct 22 08:30	27° ჲ 09'19		morning max el	8788 Sep 09 16:44	0° Mp 25′55	24°57'29
	8787 Oct 23 16:32	0° M			8788 Sep 29 23:30	0∘ ত	
				asc. node	8788 Sep 30 01:07	0° Ω 07'45	
superior conj	8787 Oct 29 07:43	12°M09'25	1°40'59	morning set	8788 Oct 05 20:11	11° ≏ 57'13	
minimum elong	8787 Oct 29 07:32	12°M08'23	1°41'08				
max. Earth dist.	8787 Nov 01 05:13	18°M18'58	1.33501 AU	superior conj	8788 Oct 12 16:53	26° Ω 55'44	1°37'00
evening rise	8787 Nov 06 01:21	28° ™ 12'42		minimum elong	8788 Oct 12 15:39	26° ≏ 48'55	1°37'00
	8787 Nov 06 23:07	0° ∡ ¹			8788 Oct 14 02:35	0° M ₊	

max. Earth dist.	8788 Oct 14 08:02	0° M 29'41	1.32407 AU		8789 Sep 21 20:03	0∘ ত	
evening rise	8788 Oct 19 21:57	12°M20'02					
	8788 Oct 29 03:35	0° ∡ ¹		superior conj	8789 Sep 27 04:17	11° ≏ 46′05	1°27'21
desc. node	8788 Nov 03 12:42	9° ∡ 03'32		minimum elong	8789 Sep 27 02:20	11° ≏ 35'15	1°27'10
	8788 Nov 19 01:25	0° ठ		max. Earth dist.	8789 Sep 27 16:17	12° ≏ 52'38	1.31776 AU
evening max el	8788 Nov 21 20:57	2° 云 50'33	27°29'14	evening rise	8789 Oct 04 01:40	26° Ω 46'00	
retrograde	8788 Dec 05 15:28	10° ろ 08'23			8789 Oct 05 14:56	0° M	
evening set	8788 Dec 12 17:08	7° る 40'54		desc. node	8789 Oct 21 09:47	28°M13'15	
min. Earth dist.	8788 Dec 16 10:00	4° る 36'50	0.62870 AU		8789 Oct 22 14:32	0° ∡ 7	
inferior conj	8788 Dec 19 05:12	1°る53'57		evening max el	8789 Nov 04 03:17	15° √ 15'04	27°07'22
minimum elong	8788 Dec 19 10:06	1°る42'02	2°30′58	retrograde	8789 Nov 18 00:43	22° x 26'00	
	8788 Dec 21 05:35	30°R⊀ ⁷		evening set	8789 Nov 25 00:24	20° ₹ 16'40	0.60051 ATT
morning rise	8788 Dec 26 05:11	26° 🖈 43'03		min. Earth dist.	8789 Nov 28 18:00	17° 🗷 34'02	0.60851 AU
asc. node direct	8788 Dec 27 00:37 8788 Dec 28 12:42	26° ₹ 28'46 26° ₹ 18'09		inferior conj	8789 Dec 01 20:50 8789 Dec 02 03:47	14° х 54′16 14° х 39′24	
morning max el	8789 Jan 04 04:47	20 x 1809 29° x 43'34	17°47'41	minimum elong morning rise	8789 Dec 02 03.47 8789 Dec 09 09:32	10°×702'54	3 41 30
morning max ci	8789 Jan 04 04.47	29 メ 43 34	1/4/41	direct	8789 Dec 09 09:32 8789 Dec 11 14:12	9° x ⁷ 43'33	
morning set	8789 Jan 20 06:36	24° る 29'39		asc. node	8789 Dec 13 21:40	10° ₹ 05'55	
morning set	8789 Jan 23 10:05	0°≈		morning max el	8789 Dec 18 19:36	13°×720'41	17°58'26
desc. node	8789 Jan 30 11:57	12°≈08'10		morning max er	8789 Dec 30 01:53	0°る	17 5020
dese. node	0,00,000	12 10 00 10		morning set	8790 Jan 03 11:05	7° る 59'29	
superior conj	8789 Feb 01 02:18	14° ≈ 48'41	-0°11'46		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	
minimum elong	8789 Feb 01 01:07	14° ≈ 43'44		superior conj	8790 Jan 13 15:45	26° පි 26'41	0°27'32
behind sun begin	8789 Jan 31 18:35	14° ≈ 16′29		minimum elong	8790 Jan 13 17:58	26° る 36'23	0°27'24
behind sun end	8789 Feb 01 07:39	15° ≈ 10'55		•	8790 Jan 15 16:45	0°≈	
max. Earth dist.	8789 Feb 07 16:06	25° ≈ 33'42	1.44048 AU	desc. node	8790 Jan 17 08:56	2° ≈ 52'28	
	8789 Feb 10 10:56	0°) €		max. Earth dist.	8790 Jan 21 05:20	9° ≈ 20'41	1.42387 AU
evening rise	8789 Feb 16 03:19	8° ¥ 52'39		evening rise	8790 Jan 27 02:09	18° ≈ 51'22	
	8789 Mar 02 05:17	$0^{\circ}\mathbf{\Upsilon}$			8790 Feb 03 06:36	0° ∀	
evening max el	8789 Mar 18 02:54	20° Ƴ 44'50	21°05'50		8790 Feb 24 20:33	0 ° Υ	
asc. node	8789 Mar 24 23:26	25° Ƴ 32'46		evening max el	8790 Feb 28 21:14	4° Y 27'01	22°21'57
retrograde	8789 Mar 26 16:53	25° Ƴ 47'53		retrograde	8790 Mar 10 13:48	10° Y °11′22	
evening set	8789 Mar 30 21:46	24° Y 08'32		asc. node	8790 Mar 11 20:33	10° Y °03′07	
inferior conj	8789 Apr 05 04:57	17° Y 55'44	2°57'57	evening set	8790 Mar 15 05:35	8° Y 16′52	
minimum elong	8789 Apr 05 03:05	18° Y 02'12	2°57'34	inferior conj	8790 Mar 20 13:38	1° Y 55'00	2°30'26
min. Earth dist.	8789 Apr 05 14:10	17° Y 23'49	0.68194 AU	minimum elong	8790 Mar 20 11:25	2°Υ02'43	2°29'51
morning rise	8789 Apr 10 08:11	11° Y 41'05		min. Earth dist.	8790 Mar 20 10:23	2°Υ06'20	0.68476 AU
direct	8789 Apr 15 14:59	9° Υ 21'21	22020151		8790 Mar 21 23:04	30°₹)	
morning max el	8789 Apr 26 04:19	15° Y 38'49	23°29'51	morning rise	8790 Mar 25 17:05	25°) 44'59	
desc. node	8789 Apr 28 11:51	18° Y 06'37 0° と		direct	8790 Mar 30 10:01	23°) 46'14 29°) 11'21	22°01'28
	8789 May 07 22:48 8789 May 27 19:58	0°II		morning max el	8790 Apr 08 16:16 8790 Apr 09 11:15	29 π 1121 0° Υ	22 01 28
morning set	8789 May 31 06:18	5° ∏ 42'42		desc. node	8790 Apr 15 08:49	6° Υ 55'49	
max. Earth dist.	8789 Jun 04 05:48	12° I I33'04	1.39082 AU	desc. Hode	8790 May 01 16:03	0°8	
max. Darm dist.	0707 Jun 04 05.40	12 11 33 04	1.57002 110	morning set	8790 May 11 14:40	15° 8 30'34	
superior conj	8789 Jun 11 19:17	26° Ⅱ 13'29	-1°20'58	max. Earth dist.	8790 May 17 04:46	24° 8 40'26	1.41312 AU
minimum elong	8789 Jun 12 00:21	26° Ⅱ 37'08			8790 May 20 08:21	0°II	
Č	8789 Jun 13 19:28	0ංම			•		
asc. node	8789 Jun 20 22:23	13°5643'34		superior conj	8790 May 24 22:34	7° Ⅱ 59'09	-1°48'53
evening rise	8789 Jun 21 02:50	14° © 05'08		minimum elong	8790 May 25 04:31	8° Ⅱ 25'30	1°48'30
	8789 Jun 29 17:41	$0^{\circ}\Omega$		evening rise	8790 Jun 04 12:12	27° Ⅱ 15′02	
evening max el	8789 Jul 07 07:26	10° Ω 17'49	18°43'35		8790 Jun 05 23:48	0 \circ \odot	
retrograde	8789 Jul 15 11:46	14° Ω 21'34		asc. node	8790 Jun 07 19:25	3° 5 20'45	
evening set	8789 Jul 17 12:10	14° Ω 07'39		evening max el	8790 Jun 20 15:22	22° © 56'37	18°14'32
inferior conj	8789 Jul 25 11:56	9° Ω 45'18		retrograde	8790 Jun 27 18:05	26° © 31'32	
minimum elong	8789 Jul 25 11:54	9° Ω 45'21	0°00'46	evening set	8790 Jun 30 01:51	26° © 09'21	
transit middle	8789 Jul 25 11:54	9° Ω 45'21	0°00'46	inferior conj	8790 Jul 07 06:11	21°526'10	1°27'18
transit begin	8789 Jul 25 08:14	9° £ 52'08		minimum elong	8790 Jul 07 08:46	21°520'33	1°26'14
transit end	8789 Jul 25 15:34	9° Ω 38'34		min. Earth dist.	8790 Jul 10 15:17	18°932'04	0.59224 AU
desc. node	8789 Jul 25 11:07	9° Ω 46'47	0.57127 411	desc. node	8790 Jul 12 08:13	17°512'33	
min. Earth dist.	8789 Jul 28 16:56		0.57127 AU	morning rise	8790 Jul 14 12:34	15°547'09	
morning rise direct	8789 Aug 02 08:09 8789 Aug 08 00:02	4° Ω 38'26 3° Ω 19'48		direct morning max el	8790 Jul 20 20:13 8790 Aug 04 05:03	13°557'43 21°546'40	27°30'46
morning max el	8789 Aug 08 00:02 8789 Aug 22 07:39	10° Ω 49'20	26°28'37	morning max er	8790 Aug 04 05:03 8790 Aug 11 09:57	21°946'40' 0°Ω	41 3040
morning max ci	8789 Sep 06 01:56	0°Mp	20 20 31		8790 Aug 11 09.37 8790 Aug 30 01:11	0°mp	
asc. node	8789 Sep 16 22:04	19° Mp 41'08		asc. node	8790 Aug 30 01:11 8790 Sep 03 19:01	9°Mg30'02	
morning set	8789 Sep 20 06:39	26° Mp 39'19		morning set	8790 Sep 03 19:01 8790 Sep 04 14:08	11°Mp09'56	
	5,05 5 0 p 20 00.57	_ \ '\y\'\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			5,70 Sep 07 14.00	w	

max. Earth dist.	8790 Sep 11 02:27	25° m 18'26	1.31608 AU	asc. node	8791 Aug 21 15:58	29° Ω 29'18	
	0700 0 11 16 01	2 (0 m- 22120	1012127	E d Ed	8791 Aug 21 21:47	0° M)	1 21005 ATT
superior conj	8790 Sep 11 16:01	26° m 33'39		max. Earth dist.	8791 Aug 25 10:38	7° m 35'54	1.31905 AU
minimum elong	8790 Sep 11 13:46	26° Tp 21'11	1°12'05				
	8790 Sep 13 05:11	0∘ ⊽		superior conj	8791 Aug 27 02:18	11° mp 13'13	
evening rise	8790 Sep 18 10:01	11° Ω 22'38		minimum elong	8791 Aug 27 00:15	11° Mp 01'56	0°52'14
	8790 Sep 27 19:53	0°M		evening rise	8791 Sep 02 20:58	26° Mp 03'56	
desc. node	8790 Oct 08 06:53	16°M34'38	26011120		8791 Sep 04 17:30	0° ™	
evening max el	8790 Oct 17 02:22	26°M49'42	26°11'38		8791 Sep 22 01:57	0° M ₅	
_	8790 Oct 20 20:49	0° ∡ 7		desc. node	8791 Sep 25 04:00	3°M48'47	
retrograde	8790 Oct 31 00:22	3° ₹ 53'56		evening max el	8791 Sep 28 17:19	7°M34'15	24°47'41
evening set	8790 Nov 06 12:11	2° ≯ 12'36		retrograde	8791 Oct 12 13:04	14°M31'39	
	8790 Nov 10 02:59	30°RM		evening set	8791 Oct 18 00:03	13°M24'52	
min. Earth dist.	8790 Nov 10 15:25			min. Earth dist.	8791 Oct 23 04:31	10°M39'52	0.56836 AU
inferior conj	8790 Nov 13 19:17	27°M17'20		inferior conj	8791 Oct 25 21:44	8°M54'32	
minimum elong	8790 Nov 14 02:31	27°M03'52	4°45'56	minimum elong	8791 Oct 26 01:29	8°M48'27	5°29'47
morning rise	8790 Nov 21 19:12	22°M48'23		morning rise	8791 Nov 03 05:09	4°M48'15	
direct	8790 Nov 24 01:12	22°M31'20		direct	8791 Nov 05 17:35	4°M30'34	
asc. node	8790 Nov 30 18:43	25°M14'21		morning max el	8791 Nov 15 03:05	8°M58'18	19°21'47
morning max el	8790 Dec 02 04:14		18°29'13	asc. node	8791 Nov 17 15:44	11°M41'12	
	8790 Dec 05 06:40	0° ∡			8791 Nov 28 22:32	0° ∡	
morning set	8790 Dec 18 04:06	22° ₹ 03'21		morning set	8791 Dec 02 05:37	6° ₹ 129'39	
	8790 Dec 22 07:12	0°ರ					
				superior conj	8791 Dec 10 07:31		1°20'37
superior conj	8790 Dec 27 03:10	9° ⋜ 06'49		minimum elong	8791 Dec 10 10:27	22° ∡ ¹49'15	1°20'33
minimum elong	8790 Dec 27 06:30	9° ට 22'14			8791 Dec 14 04:30	0° ろ	
max. Earth dist.	8791 Jan 03 14:01	22° る 27'49	1.40343 AU	max. Earth dist.	8791 Dec 16 19:45	4°る52'47	1.38161 AU
desc. node	8791 Jan 04 05:54	23° පි 36'18		evening rise	8791 Dec 20 13:23	11°る33'25	
evening rise	8791 Jan 07 20:53	29° ප් 43'45		desc. node	8791 Dec 22 02:53	14° පි 16'09	
	8791 Jan 08 00:48	0° ≈			8791 Dec 31 18:07	0° ≈	
	8791 Jan 27 17:48	0° ∺ 18° ∺ 11'44	22942107		8792 Jan 23 03:00	0° ∺ 1° ∺ 58'40	24950152
evening max el	8791 Feb 11 12:05	24° X 34'34	23°42'07	evening max el	8792 Jan 25 01:17	8°\(\frac{1}{5}2'06\)	24°59'53
retrograde asc. node	8791 Feb 22 07:47 8791 Feb 26 17:41	24 X 34 34 23° X 00'48		retrograde	8792 Feb 05 21:51 8792 Feb 11 14:07	6° ₩ 30'24	
evening set	8791 Feb 26 17.41 8791 Feb 27 11:34	23 \(\chi 0048\) 22°\(\chi 25'34\)		evening set asc. node	8792 Feb 11 14:07 8792 Feb 13 14:49	6 X 30 24 4° X 30'04	
inferior conj	8791 Mar 04 22:06	15°) 58'06	1°53'56	min. Earth dist.	8792 Feb 16 01:51	1° H 29'01	0.67783 AU
minimum elong	8791 Mar 04 22:00	16° ₩ 05'24	1°53'17	inferior conj	8792 Feb 17 04:29	0° H 01'36	1°08'54
min. Earth dist.	8791 Mar 04 07:01	16°) (49'38	0.68330 AU	minimum elong	8792 Feb 17 04:25	0° ₩ 06'42	1°08'26
morning rise	8791 Mar 10 04:21	9° H 54'03	0.00330 AC	minimum ciong	8792 Feb 17 04:58	30°R≈	1 00 20
direct	8791 Mar 14 07:38	8°) 17'46		morning rise	8792 Feb 22 16:01	24°≈04'58	
morning max el	8791 Mar 22 10:27	12°) 55'37	20°41'24	direct	8792 Feb 26 06:39	22°≈50'05	
desc. node	8791 Apr 02 05:45	26°\ 22'27	20 .12.	morning max el	8792 Mar 04 12:31	26°≈51'40	19°34'18
dese. node	8791 Apr 04 19:08	0°Υ		monning mun vi	8792 Mar 07 09:13	0°) €	19 0.10
morning set	8791 Apr 20 22:04	24° Υ 12'26		greatest brilliancy	8792 Mar 17 05:24	13° ¥ 28′05	-0.7m
	8791 Apr 24 14:46	0°8		desc. node	8792 Mar 19 02:39	16°) €15'58	
max. Earth dist.	8791 Apr 29 10:51		1.43254 AU		8792 Mar 28 03:44	$0^{\circ}\mathbf{\Upsilon}$	
	r			morning set	8792 Mar 29 19:55	2° Υ 34'34	
superior conj	8791 May 06 03:11	18° 8 43'39	-2°07'46	max. Earth dist.	8792 Apr 10 23:28	21° Y 31'15	1.44681 AU
minimum elong	8791 May 06 07:05	19° 8 00'04	2°07'46		-		
	8791 May 12 17:38	$\Pi^{\circ}0$		superior conj	8792 Apr 15 07:05	28° Ƴ 23'57	-2°11'20
evening rise	8791 May 18 06:08	9° Ⅱ 41'15		minimum elong	8792 Apr 15 04:55	28° Ƴ 15′15	2°11'24
asc. node	8791 May 25 16:28	22° Ⅲ 39′06			8792 Apr 16 06:59	9° 8	
	8791 May 30 07:32	0 \circ \odot		evening rise	8792 Apr 29 03:50	21° 8 12'36	
evening max el	8791 Jun 04 03:46	6° ୭ 01'54	18°05'05		8792 May 04 09:26	Π $^{\circ}0$	
retrograde	8791 Jun 10 16:33	9° © 23'50		asc. node	8792 May 11 13:33	11° Ⅱ 31'12	
evening set	8791 Jun 13 07:49	8° © 50'33		evening max el	8792 May 17 17:10	19° Ⅱ 24'06	18°14'29
inferior conj	8791 Jun 19 19:49	3° 5 47'27	2°27'38	retrograde	8792 May 24 02:19	22° Ⅱ 47′24	
minimum elong	8791 Jun 19 22:44	3° 5 540'10	2°26'40	evening set	8792 May 27 00:56	22° Ⅱ 01′08	
min. Earth dist.	8791 Jun 22 21:54	0° © 43'53	0.61478 AU	inferior conj	8792 Jun 02 00:39	16° Ⅱ 39'56	3°03'34
	8791 Jun 23 16:49	30°Ŗ Ⅱ		minimum elong	8792 Jun 02 02:39		3°03'01
morning rise	8791 Jun 26 11:25	27° ∏ 46′18		min. Earth dist.	8792 Jun 04 13:49	13° Ⅱ 49'05	0.63615 AU
desc. node	8791 Jun 29 05:18	26° Ⅱ 15'54		morning rise	8792 Jun 08 03:02	10° Ⅱ 26'39	
direct	8791 Jul 03 03:45	25° Ⅱ 28'19		direct	8792 Jun 14 20:43	7° Ⅱ 48'35	
	8791 Jul 13 12:32	0°99	25055112	desc. node	8792 Jun 15 02:20	7° II 48'45	0704044
morning max el	8791 Jul 17 09:14	3°528'46	27~55'42	morning max el	8792 Jun 28 17:57	15° I 51'10	27~42'46
morning sat	8791 Aug 06 00:10	0° Ω 25° Ω 23'58			8792 Jul 10 08:33 8792 Jul 28 17:27	$0 {\circ} \Omega$	
morning set	8791 Aug 19 16:48	23 6623 38			0/94 JUI 40 1/:4/	0 86	

morning set	8792 Aug 02 12:16	9° Ω 14'09		morning max el	8793 Jun 11 04:20	28° 8 43'32	26°56'59
max. Earth dist.	8792 Aug 07 12:42	19° Ω 32'41	1.32680 AU		8793 Jun 12 09:47	0°Щ	
asc. node	8792 Aug 07 12:54	19° Ω 33'45			8793 Jul 04 04:13	0°©	
	0700	252 020120	0000107	morning set	8793 Jul 16 21:37	22° © 32'44	
superior conj	8792 Aug 10 09:14	25° Ω 38'28	0°28'27	E d E c	8793 Jul 20 16:50	0° N	1 22040 444
minimum elong	8792 Aug 10 07:55	25° Ω 31'22	0°28'02	max. Earth dist.	8793 Jul 21 05:13	1° Ω 02'14	1.33948 AU
	8792 Aug 12 09:32	0° M)			0702 1 1 25 10 20	00 0 42140	0000120
evening rise	8792 Aug 17 08:34	10° m/43'28		superior conj	8793 Jul 25 10:38	9° Ω 43'48	0°00'20
	8792 Aug 27 04:09	0° Ω	22000111	minimum elong	8793 Jul 25 10:38	9° Ω 43'47 9° Ω 14'14	0°00'08
evening max el desc. node	8792 Sep 09 04:21	17° ♀ 48'00 19° ♀ 29'49	23°09'11	behind sun begin behind sun end	8793 Jul 25 04:59 8793 Jul 25 16:17	10° Ω 13'23	
retrograde	8792 Sep 11 01:07 8792 Sep 22 13:39	19 2 2949 24° 2 29'16		asc. node	8793 Jul 25 10:17 8793 Jul 25 09:51	9° Ω 39'39	
evening set	8792 Sep 26 13:03	24 = 29 10 23° £ 54'45		evening rise	8793 Jul 23 09:51 8793 Aug 01 18:56	25° Ω 16'09	
min. Earth dist.	8792 Oct 03 13:30	20° £ 41'02	0.55373 AU	evening rise	8793 Aug 04 01:38	0° m	
inferior conj	8792 Oct 05 13:30 8792 Oct 05 04:34	19° Ω 44'15		evening max el	8793 Aug 21 20:23	28° Mp 06'39	21°32'50
minimum elong	8792 Oct 05 04:54 8792 Oct 05 00:57	19° ≏ 49'32		evening max er	8793 Aug 23 22:33	ე∘ 亞	21 32 30
morning rise	8792 Oct 13 14:53	15° ⊆ 53'48	3 31 10	desc. node	8793 Aug 28 22:14	ა _ 3° ჲ 06'53	
direct	8792 Oct 16 14:42	15° £ 32'31		retrograde	8793 Sep 03 03:34	4° £ 12'40	
morning max el	8792 Oct 27 13:19	20° £ 40'31	20°36'52	evening set	8793 Sep 05 05:31	3° £ 57'08	
asc. node	8792 Nov 03 12:42	29° ♀ 10'44		inferior conj	8793 Sep 14 22:35	29° m 59'23	-4°38'51
	8792 Nov 04 01:46	0° M .		minimum elong	8793 Sep 14 13:17	0° م 12'24	
morning set	8792 Nov 15 12:41	21°M10'05		S	8793 Sep 14 22:09	30°₽.₩	
S	8792 Nov 19 18:53	0° ≯ 7		min. Earth dist.	8793 Sep 14 21:55	0° Ω 00'19	0.54691 AU
				morning rise	8793 Sep 23 09:15	26° Mp 09'05	
superior conj	8792 Nov 23 00:11	6° ∡ ³37'57	1°34'18	direct	8793 Sep 27 00:14	25° m/40'31	
minimum elong	8792 Nov 23 02:00	6° ∡ ¹47'14	1°34'24		8793 Oct 07 15:27	0∘ ⊽	
max. Earth dist.	8792 Nov 28 03:20	16° ∡ 750′34	1.36092 AU	morning max el	8793 Oct 09 10:49	1° ≏ 34'17	22°11'43
evening rise	8792 Dec 02 01:17	24° ҂ 14'42		asc. node	8793 Oct 21 09:39	17° ≏ 28'36	
	8792 Dec 05 05:40	ರ∘ರ			8793 Oct 28 01:46	0° M	
desc. node	8792 Dec 07 23:53	4°₹48'08		morning set	8793 Oct 30 23:00	5°M57'47	
	8792 Dec 24 09:04	0° ≈					
evening max el	8793 Jan 06 14:24	15° ≈ 45'38	26°08'09	superior conj	8793 Nov 07 01:26	21°M04'21	1°40'30
retrograde	8793 Jan 19 07:01	22° ≈ 58'15		minimum elong	8793 Nov 07 01:57	21°M07'06	1°40'39
evening set	8793 Jan 25 11:34	20° ≈ 27'11		max. Earth dist.	8793 Nov 10 17:41	28°M43'49	1.34333 AU
min. Earth dist.	8793 Jan 29 16:45	16° ≈ 00'17	0.66855 AU		8793 Nov 11 08:38	0° ∡	
asc. node	8793 Jan 30 11:55	15°≈01'15		evening rise	8793 Nov 15 04:46	7° ∡ ³37′07	
inferior conj	8793 Jan 31 06:53	14°≈02'21	0°15'42	desc. node	8793 Nov 24 20:54	25° ₹ 06'50	
minimum elong	8793 Jan 31 06:28	14°≈03'38	0°15'42		8793 Nov 27 20:06	0°る	26050120
transit middle	8793 Jan 31 06:28	14°≈03'38	0°15'42	evening max el	8793 Dec 20 03:45	29° る 24'59	26°59'30
transit begin	8793 Jan 31 05:50	14°≈05'34		ratrograda	8793 Dec 20 18:33 8794 Jan 02 10:25	0°≈ 6°≈45'0°	
transit end morning rise	8793 Jan 31 07:05 8793 Feb 06 02:03	14°≈01'43 8°≈14'54		retrograde evening set	8794 Jan 09 01:55	6°≈45'08 4°≈09'46	
direct	8793 Feb 00 02:03 8793 Feb 09 05:29	8 ≈14 34 7°≈18'42		min. Earth dist.	8794 Jan 13 01:23	4 ≈0946 0°≈16'58	0.65568 AU
morning max el	8793 Feb 15 21:55	10°≈56'22	18°42'44	iiiii. Lattii dist.	8794 Jan 13 07:25	30°Ŗ ප	0.03300 AC
morning max or	8793 Mar 01 19:34	0° ∀	10 12 11	inferior conj	8794 Jan 15 03:06	27° る 54'55	-0°45'08
desc. node	8793 Mar 05 23:33	6° ∺ 29'24		minimum elong	8794 Jan 15 04:25	27° ප 51'11	0°44'22
morning set	8793 Mar 09 08:31	11°) (46'43		asc. node	8794 Jan 17 09:00	25° る 26'43	V22
8	8793 Mar 20 23:46	$_0$ ° γ		morning rise	8794 Jan 21 08:07	22° る 19'10	
max. Earth dist.	8793 Mar 24 16:42	5° Ƴ 47'57	1.45445 AU	direct	8794 Jan 24 02:11	21° ප 38'01	
				morning max el	8794 Jan 30 12:35	25° පි 03'01	18°07'43
superior conj	8793 Mar 25 16:13	7° Ƴ 20′02	-1°54'57	-	8794 Feb 03 16:47	0° ≈	
minimum elong	8793 Mar 25 07:40	6° Ƴ 46'32	1°54'22	morning set	8794 Feb 18 01:40	22° ≈ 25'31	
	8793 Apr 08 23:51	0°8		desc. node	8794 Feb 20 20:26	26° ≈ 56'41	
evening rise	8793 Apr 10 02:00	1° 8 44'49			8794 Feb 22 17:46	0° ∀	
greatest brilliancy	8793 Apr 17 09:56	13° 8 30'00	-0.9m				
asc. node	8793 Apr 28 10:38	29° 8 48'51		superior conj	8794 Mar 04 22:33	16° ∺ 15′28	
	8793 Apr 28 14:13	$\Pi^{\circ}0$		minimum elong	8794 Mar 04 13:42	15°) 40′37	
evening max el	8793 May 01 04:52	2° ∏ 56'49	18°42'02	max. Earth dist.	8794 Mar 07 12:16	20°) 17′54	1.45474 AU
retrograde	8793 May 07 19:21	6° Ⅱ 34'29			8794 Mar 13 17:24	0° Υ	
evening set	8793 May 11 01:30	5° Ⅱ 34'00		evening rise	8794 Mar 21 02:14	11° Y 26'39	
inferior conj	8793 May 16 16:45	29° 8 56'13	3°19'56		8794 Apr 02 03:43	0° 8	
minimum elong	8793 May 16 17:27	29° 8 54'03	3°19'42	greatest brilliancy	8794 Apr 02 15:47	0° 8 45'20	-0.7m
t materi	8793 May 16 15:31	30°R 8	0.65445.133	evening max el	8794 Apr 14 12:38	16° 8 34'22	19°26'35
min. Earth dist.	8793 May 18 14:48	27° 8 35'03	0.65447 AU	asc. node	8794 Apr 15 07:44	17° 8 20'56	
morning rise	8793 May 22 08:42	23° 8 38'08		retrograde	8794 Apr 21 16:23	20° 8 38'08	
direct desc. node	8793 May 28 21:27 8793 Jun 01 23:21	20° 8 51'50 21° 8 46'33		evening set inferior conj	8794 Apr 25 06:40 8794 Apr 30 16:42	13° 6 22'38	3°20'54
acse. Houc	5175 Jun VI 23.21	21 0 1 033		interior conj	577 Apr 50 10.42	15 02943	J 4U J4

asc. node

retrograde

evening set

8796 Mar 19 01:57

8796 Mar 19 13:01

8796 Mar 23 22:27

19°**Y**13′56

19°**Y**15′01

17°**Y**28'59

8795 Apr 12 20:21

8795 Apr 14 21:47

8795 Apr 14 20:19

inferior conj

minimum elong

30°**₹**Υ

27°**Y**15′52

27° Y 20'54 3° 09'09

3°09'26

inferior conj	8796 Mar 29 05:45	11° Ƴ 11'41	2°47'26		8797 Mar 09 21:47	30° Ŗ ₩	
minimum elong	8796 Mar 29 03:41	11° Y 11'41	2°46'57	inferior conj	8797 Mar 13 14:34	25° ¥ 13'15	2°16'02
min. Earth dist.	8796 Mar 29 09:28	10° Υ 58'45	0.68364 AU	minimum elong	8797 Mar 13 14:34 8797 Mar 13 12:19	25° H 21'01	2°15'24
morning rise	8796 Apr 03 08:45	4°Υ58'55	0.06304 AU	min. Earth dist.	8797 Mar 13 12:19 8797 Mar 13 06:13	25° X 42'11	0.68459 AU
direct	8796 Apr 08 09:33	2° Υ 48'01		morning rise	8797 Mar 18 18:52	19°) 05'24	0.00437 AC
morning max el	8796 Apr 18 09:42	8° Υ 43'25	22°51'44	direct	8797 Mar 18 18:32 8797 Mar 23 05:49	17° H 16'16	
desc. node	8796 Apr 22 14:15	13° Υ 20'59	22 31 44	morning max el	8797 Mar 31 23:58	22° ¥ 20'49	21°26'00
desc. flode	8796 May 05 01:16	0° 8		morning max ci	8797 Apr 07 14:03	0°Υ	21 20 00
morning set	8796 May 22 17:40	27° 8 22'11		desc. node	8797 Apr 07 14:03 8797 Apr 09 11:11	2° Υ 27'39	
morning set	•	0° I I		desc. Hode	•	0° 8	
max. Earth dist.	8796 May 24 07:37 8796 May 27 05:51	0 П 4°П57′23	1.40043 AU	marning sat	8797 Apr 28 08:28	6° 8 38'59	
max. Earth dist.	8796 May 27 05:51	4°Щ3/723	1.40043 AU	morning set	8797 May 02 14:29		1 4210C ATT
	970 <i>C</i> I 02 22.59	100π 40122	1022122	max. Earth dist.	8797 May 09 07:02	17° 8 26'29	1.42186 AU
superior conj	8796 Jun 03 23:58	18° Ⅱ 40'33			0707.16 16 10 01	00 T 00147	1050100
minimum elong	8796 Jun 04 05:39	19° Ⅱ 06′28	1°33'03	superior conj	8797 May 16 18:01	0° Ⅱ 00'47	
	8796 Jun 10 01:51	0°95		minimum elong	8797 May 16 23:36	0° Ⅱ 24'50	1°58'09
evening rise	8796 Jun 13 19:27	7°906'14			8797 May 16 17:51	0°II	
asc. node	8796 Jun 15 00:51	9° © 25'57		evening rise	8797 May 27 22:47	19° Ⅲ 58'25	
	8796 Jun 27 06:33	$0^{\circ}\Omega$		asc. node	8797 Jun 01 21:53	28° Ⅱ 55'47	
evening max el	8796 Jun 29 21:00	2° Ω 56'34	18°28'45		8797 Jun 02 12:26	0°50	
retrograde	8796 Jul 07 13:15	6° Ω 46'33		evening max el	8797 Jun 13 07:15	15° © 47'34	18°08'11
evening set	8796 Jul 09 16:27	6° Ω 29'40		retrograde	8797 Jun 20 02:44	19° © 15'01	
inferior conj	8796 Jul 17 07:44	1° Ω 58′27	0°40'01	evening set	8797 Jun 22 13:40	18° © 48'29	
minimum elong	8796 Jul 17 09:08	1° Ω 55'39	0°39'18	inferior conj	8797 Jun 29 10:37	13° © 57'01	1°56'09
desc. node	8796 Jul 19 13:35	0° Ω 11'26		minimum elong	8797 Jun 29 13:34	13° © 50'13	1°55'03
	8796 Jul 19 19:26	30° ₹ 5		min. Earth dist.	8797 Jul 02 17:58	10° © 55'35	0.60181 AU
min. Earth dist.	8796 Jul 20 16:07	29° 5 20'24	0.57973 AU	morning rise	8797 Jul 06 10:37	8° 5 07'09	
morning rise	8796 Jul 24 22:20	26° © 36'28		desc. node	8797 Jul 06 10:40	8°907'05	
direct	8796 Jul 30 21:23	25° © 04'59		direct	8797 Jul 12 23:01	6° ॐ 04′28	
	8796 Aug 11 05:00	$0^{\circ}\Omega$		morning max el	8797 Jul 27 07:00	14° © 00'10	27°46'05
morning max el	8796 Aug 14 06:39	2° Ω 44'32	26°59'18		8797 Aug 09 02:58	$0^{\circ}\Omega$	
	8796 Sep 02 22:31	0° m			8797 Aug 26 07:26	0° m)	
asc. node	8796 Sep 11 00:30	15° m 24'54		morning set	8797 Aug 28 13:14	4° m/ 35′56	
morning set	8796 Sep 13 07:33	20° Mp 11'41		asc. node	8797 Aug 28 21:27	5° Mp 18'50	
	8796 Sep 17 20:04	0∘ ত		max. Earth dist.	8797 Sep 03 17:19	17° m 53'24	1.31667 AU
					-		
superior conj	8796 Sep 20 06:33	5° £ 24'14	1°21'38	superior conj	8797 Sep 04 17:54	20° m 09'19	1°04'39
minimum elong	8796 Sep 20 04:25	5° ≏ 12'24	1°21'23	minimum elong	8797 Sep 04 15:41	19° m 57'00	1°04'14
max. Earth dist.	8796 Sep 20 07:44	5° £ 30'47	1.31645 AU		8797 Sep 09 04:50	0∘ ⊽	
evening rise	8796 Sep 27 02:00	20° £ 17'52		evening rise	8797 Sep 11 11:40	4° ≙ 57'10	
	8796 Oct 01 19:40	0°M,			8797 Sep 24 14:29	0° M	
desc. node		220M 20101				11°M23'58	
	8796 Oct 15 12:12	23°M28'01		desc. node	8797 Oct 02 09:18	11 1102330	
	8796 Oct 15 12:12 8796 Oct 20 07:42	23°IIL28'01 0° √		desc. node evening max el	8797 Oct 02 09:18 8797 Oct 09 00:06	18°M49'26	25°38'53
evening max el	8796 Oct 20 07:42		26°47'30	evening max el			25°38'53
evening max el	8796 Oct 20 07:42 8796 Oct 27 04:31	0° ҂ 7° ҂ ³36'13	26°47'30	evening max el retrograde	8797 Oct 09 00:06 8797 Oct 22 22:13	18°M49'26 25°M51'34	25°38'53
retrograde	8796 Oct 20 07:42	0° ₹ 7° ₹36'13 14° ₹45'01	26°47'30	evening max el retrograde evening set	8797 Oct 09 00:06 8797 Oct 22 22:13 8797 Oct 29 00:46	18°M49'26 25°M51'34 24°M24'46	
retrograde evening set	8796 Oct 20 07:42 8796 Oct 27 04:31 8796 Nov 10 02:33 8796 Nov 16 22:38	0° 🖈 7° 🖈 36'13 14° 🖈 45'01 12° 🖈 46'08		evening max el retrograde evening set min. Earth dist.	8797 Oct 09 00:06 8797 Oct 22 22:13 8797 Oct 29 00:46 8797 Nov 02 12:30	18°M49'26 25°M51'34 24°M24'46 21°M47'53	0.57899 AU
retrograde evening set min. Earth dist.	8796 Oct 20 07:42 8796 Oct 27 04:31 8796 Nov 10 02:33 8796 Nov 16 22:38 8796 Nov 20 18:40	0° ₹ 7° ₹ 36'13 14° ₹ 45'01 12° ₹ 46'08 10° ₹ 09'06	0.59959 AU	evening max el retrograde evening set min. Earth dist. inferior conj	8797 Oct 09 00:06 8797 Oct 22 22:13 8797 Oct 29 00:46 8797 Nov 02 12:30 8797 Nov 05 13:28	18°M49'26 25°M51'34 24°M24'46 21°M47'53 19°M40'17	0.57899 AU -5°09'29
retrograde evening set min. Earth dist. inferior conj	8796 Oct 20 07:42 8796 Oct 27 04:31 8796 Nov 10 02:33 8796 Nov 16 22:38 8796 Nov 20 18:40 8796 Nov 23 23:12	0° ₹ 7° ₹ 36'13 14° ₹ 45'01 12° ₹ 46'08 10° ₹ 09'06 7° ₹ 35'01	0.59959 AU -4°12'33	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	8797 Oct 09 00:06 8797 Oct 22 22:13 8797 Oct 29 00:46 8797 Nov 02 12:30 8797 Nov 05 13:28 8797 Nov 05 19:47	18°M49'26 25°M51'34 24°M24'46 21°M47'53 19°M40'17 19°M29'10	0.57899 AU -5°09'29
retrograde evening set min. Earth dist. inferior conj minimum elong	8796 Oct 20 07:42 8796 Oct 27 04:31 8796 Nov 10 02:33 8796 Nov 16 22:38 8796 Nov 20 18:40	0° ₹ 7° ₹ 36'13 14° ₹ 45'01 12° ₹ 46'08 10° ₹ 09'06	0.59959 AU -4°12'33	evening max el retrograde evening set min. Earth dist. inferior conj	8797 Oct 09 00:06 8797 Oct 22 22:13 8797 Oct 29 00:46 8797 Nov 02 12:30 8797 Nov 05 13:28	18°M49'26 25°M51'34 24°M24'46 21°M47'53 19°M40'17	0.57899 AU -5°09'29
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	8796 Oct 20 07:42 8796 Oct 27 04:31 8796 Nov 10 02:33 8796 Nov 16 22:38 8796 Nov 20 18:40 8796 Nov 23 23:12 8796 Nov 24 06:36 8796 Dec 01 17:04	0° ₹ 7° ₹ 36'13 14° ₹ 45'01 12° ₹ 46'08 10° ₹ 09'06 7° ₹ 35'01 7° ₹ 20'04 2° ₹ 53'20	0.59959 AU -4°12'33	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	8797 Oct 09 00:06 8797 Oct 22 22:13 8797 Oct 29 00:46 8797 Nov 02 12:30 8797 Nov 05 13:28 8797 Nov 05 19:47 8797 Nov 13 17:07 8797 Nov 16 00:58	18°M49'26 25°M51'34 24°M24'46 21°M47'53 19°M40'17 19°M29'10 15°M21'06 15°M04'15	0.57899 AU -5°09'29 5°08'15
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	8796 Oct 20 07:42 8796 Oct 27 04:31 8796 Nov 10 02:33 8796 Nov 16 22:38 8796 Nov 20 18:40 8796 Nov 23 23:12 8796 Nov 24 06:36 8796 Dec 01 17:04 8796 Dec 03 21:36	0° ₹ 7° ₹ 36'13 14° ₹ 45'01 12° ₹ 46'08 10° ₹ 09'06 7° ₹ 35'01 7° ₹ 20'04 2° ₹ 53'20 2° ₹ 35'26	0.59959 AU -4°12'33	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	8797 Oct 09 00:06 8797 Oct 22 22:13 8797 Oct 29 00:46 8797 Nov 02 12:30 8797 Nov 05 13:28 8797 Nov 05 19:47 8797 Nov 13 17:07 8797 Nov 16 00:58 8797 Nov 24 16:15	18°M49'26 25°M51'34 24°M24'46 21°M47'53 19°M40'17 19°M29'10 15°M21'06 15°M04'15 19°M13'56	0.57899 AU -5°09'29
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	8796 Oct 20 07:42 8796 Oct 27 04:31 8796 Nov 10 02:33 8796 Nov 16 22:38 8796 Nov 20 18:40 8796 Nov 23 23:12 8796 Nov 24 06:36 8796 Dec 01 17:04 8796 Dec 03 21:36 8796 Dec 08 00:09	0° x³ 7° x³ 36'13 14° x³ 45'01 12° x³ 46'08 10° x³ 09'06 7° x³ 35'01 7° x² 20'04 2° x³ 53'20 2° x³ 35'26 3° x³ 41'45	0.59959 AU -4°12'33 4°10'16	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	8797 Oct 09 00:06 8797 Oct 22 22:13 8797 Oct 29 00:46 8797 Nov 02 12:30 8797 Nov 05 13:28 8797 Nov 05 19:47 8797 Nov 13 17:07 8797 Nov 16 00:58 8797 Nov 24 16:15 8797 Nov 24 21:11	18°M49'26 25°M51'34 24°M24'46 21°M47'53 19°M29'10 15°M21'06 15°M04'15 19°M13'56 19°M25'57	0.57899 AU -5°09'29 5°08'15
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	8796 Oct 20 07:42 8796 Oct 27 04:31 8796 Nov 10 02:33 8796 Nov 16 22:38 8796 Nov 20 18:40 8796 Nov 23 23:12 8796 Nov 24 06:36 8796 Dec 01 17:04 8796 Dec 03 21:36 8796 Dec 08 00:09 8796 Dec 11 11:16	0° ₹ 7° ₹ 36'13 14° ₹ 45'01 12° ₹ 46'08 10° ₹ 09'06 7° ₹ 35'01 7° ₹ 20'04 2° ₹ 53'20 2° ₹ 35'26 3° ₹ 41'45 6° ₹ 20'03	0.59959 AU -4°12'33	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	8797 Oct 09 00:06 8797 Oct 22 22:13 8797 Oct 29 00:46 8797 Nov 02 12:30 8797 Nov 05 13:28 8797 Nov 05 19:47 8797 Nov 13 17:07 8797 Nov 16 00:58 8797 Nov 24 16:15 8797 Nov 24 21:11 8797 Dec 02 16:27	18°M49'26 25°M51'34 24°M24'46 21°M47'53 19°M29'10 15°M21'06 15°M04'15 19°M13'56 19°M25'57 0° ✓	0.57899 AU -5°09'29 5°08'15
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retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	8796 Oct 20 07:42 8796 Oct 27 04:31 8796 Nov 10 02:33 8796 Nov 16 22:38 8796 Nov 20 18:40 8796 Nov 23 23:12 8796 Nov 24 06:36 8796 Dec 01 17:04 8796 Dec 03 21:36 8796 Dec 08 00:09 8796 Dec 11 11:16	0° ₹ 7° ₹ 36'13 14° ₹ 45'01 12° ₹ 46'08 10° ₹ 09'06 7° ₹ 35'01 7° ₹ 20'04 2° ₹ 53'20 2° ₹ 35'26 3° ₹ 41'45 6° ₹ 20'03	0.59959 AU -4°12'33 4°10'16	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	8797 Oct 09 00:06 8797 Oct 22 22:13 8797 Oct 29 00:46 8797 Nov 02 12:30 8797 Nov 05 13:28 8797 Nov 05 19:47 8797 Nov 13 17:07 8797 Nov 16 00:58 8797 Nov 24 16:15 8797 Nov 24 21:11 8797 Dec 02 16:27	18°M49'26 25°M51'34 24°M24'46 21°M47'53 19°M29'10 15°M21'06 15°M04'15 19°M13'56 19°M25'57 0° ✓	0.57899 AU -5°09'29 5°08'15
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	8796 Oct 20 07:42 8796 Oct 27 04:31 8796 Nov 10 02:33 8796 Nov 16 22:38 8796 Nov 20 18:40 8796 Nov 23 23:12 8796 Nov 24 06:36 8796 Dec 01 17:04 8796 Dec 03 21:36 8796 Dec 08 00:09 8796 Dec 11 11:16 8796 Dec 26 12:05	0°ズ 7°ズ36'13 14°ズ45'01 12°ズ46'08 10°ズ09'06 7°ズ35'01 7°ズ20'04 2°ズ53'20 2°ズ35'26 3°ズ41'45 6°ズ20'03 0°℧	0.59959 AU -4°12'33 4°10'16	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	8797 Oct 09 00:06 8797 Oct 22 22:13 8797 Oct 29 00:46 8797 Nov 02 12:30 8797 Nov 05 13:28 8797 Nov 05 19:47 8797 Nov 13 17:07 8797 Nov 16 00:58 8797 Nov 24 16:15 8797 Nov 24 21:11 8797 Dec 02 16:27 8797 Dec 11 01:06	18°M.49'26 25°M.51'34 24°M.24'46 21°M.47'53 19°M.40'17 19°M.29'10 15°M.21'06 15°M.04'15 19°M.13'56 19°M.25'57 0° ₹ 15° ₹ 29'55	0.57899 AU -5°09'29 5°08'15
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	8796 Oct 20 07:42 8796 Oct 27 04:31 8796 Nov 10 02:33 8796 Nov 16 22:38 8796 Nov 20 18:40 8796 Nov 23 23:12 8796 Nov 24 06:36 8796 Dec 01 17:04 8796 Dec 03 21:36 8796 Dec 08 00:09 8796 Dec 11 11:16 8796 Dec 26 12:05 8796 Dec 27 04:00	0° ** 7° ** 36'13 14° ** 45'01 12° ** 46'08 10° ** 09'06 7° ** 35'01 7° ** 20'04 2° ** 35'20 2° ** 35'26 3° ** 41'45 6° ** 20'03 0° 당 1° 당 14'39	0.59959 AU -4°12'33 4°10'16	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	8797 Oct 09 00:06 8797 Oct 22 22:13 8797 Oct 29 00:46 8797 Nov 02 12:30 8797 Nov 05 13:28 8797 Nov 05 19:47 8797 Nov 13 17:07 8797 Nov 16 00:58 8797 Nov 24 16:15 8797 Nov 24 21:11 8797 Dec 02 16:27 8797 Dec 11 01:06 8797 Dec 18 11:45	18°M.49'26 25°M.51'34 24°M.24'46 21°M.47'53 19°M.40'17 19°M.29'10 15°M.21'06 15°M.04'15 19°M.25'57 0°₹ 15°₹29'55 0°₹	0.57899 AU -5°09'29 5°08'15 18°48'47
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retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node	8796 Oct 20 07:42 8796 Oct 27 04:31 8796 Nov 10 02:33 8796 Nov 16 22:38 8796 Nov 20 18:40 8796 Nov 23 23:12 8796 Nov 24 06:36 8796 Dec 01 17:04 8796 Dec 03 21:36 8796 Dec 08 00:09 8796 Dec 11 11:16 8796 Dec 26 12:05 8796 Dec 27 04:00 8797 Jan 05 18:59 8797 Jan 05 21:55 8797 Jan 11 11:16 8797 Jan 12 01:06 8797 Jan 13 10:16 8797 Jan 18 11:43	0°ズ 7°ズ36'13 14°ズ45'01 12°ズ46'08 10°ズ09'06 7°ズ35'01 7°ズ20'04 2°ズ53'20 2°ズ35'26 3°ズ41'45 6°ズ20'03 0°उ 1°उ14'39 19°उ03'15 19°उ03'15 19°उ00'56 0°≈ 2°≈20'25 10°≈41'13	0.59959 AU -4°12'33 4°10'16 18°09'00 0°41'46 0°41'34	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. desc. node	8797 Oct 09 00:06 8797 Oct 22 22:13 8797 Oct 29 00:46 8797 Nov 02 12:30 8797 Nov 05 13:28 8797 Nov 05 19:47 8797 Nov 13 17:07 8797 Nov 16 00:58 8797 Nov 24 16:15 8797 Nov 24 21:11 8797 Dec 02 16:27 8797 Dec 11 01:06 8797 Dec 18 11:45 8797 Dec 19 14:15 8797 Dec 19 17:33 8797 Dec 26 17:02 8797 Dec 29 08:14 8797 Dec 30 15:55 8798 Jan 04 11:54	18°M.49'26 25°M.51'34 24°M.24'46 21°M.47'53 19°M.40'17 19°M.29'10 15°M.21'06 15°M.04'15 19°M.13'56 19°M.25'57 0° 2° ♂06'06 2° ♂21'42 15° ♂08'26 19° ♂44'04 21° ♂59'27 0°≈	0.57899 AU -5°09'29 5°08'15 18°48'47
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retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist.	8796 Oct 20 07:42 8796 Oct 27 04:31 8796 Nov 10 02:33 8796 Nov 16 22:38 8796 Nov 20 18:40 8796 Nov 23 23:12 8796 Nov 24 06:36 8796 Dec 01 17:04 8796 Dec 08 00:09 8796 Dec 11 11:16 8796 Dec 26 12:05 8796 Dec 27 04:00 8797 Jan 05 18:59 8797 Jan 05 21:55 8797 Jan 11 11:16 8797 Jan 12 01:06 8797 Jan 13 10:16 8797 Jan 18 11:43 8797 Jan 31 00:07 8797 Feb 21 04:29	0°ズ 7°ズ36'13 14°ズ46'08 10°ズ09'06 7°ズ35'01 7°ズ20'04 2°ズ35'20 2°ズ35'26 3°ズ41'45 6°ズ20'03 0°उ 1°उ14'39 19°उ03'15 19°उ16'23 29°उ00'56 0°≈ 2°≈20'25 10°≈41'13 0°ዢ 27°Ҡ36'47	0.59959 AU -4°12'33 4°10'16 18°09'00 0°41'46 0°41'34 1.41544 AU	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el	8797 Oct 09 00:06 8797 Oct 22 22:13 8797 Oct 29 00:46 8797 Nov 02 12:30 8797 Nov 05 13:28 8797 Nov 05 19:47 8797 Nov 13 17:07 8797 Nov 16 00:58 8797 Nov 24 16:15 8797 Nov 24 21:11 8797 Dec 02 16:27 8797 Dec 11 01:06 8797 Dec 18 11:45 8797 Dec 19 14:15 8797 Dec 19 17:33 8797 Dec 26 17:02 8797 Dec 29 08:14 8797 Dec 30 15:55 8798 Jan 04 11:54 8798 Feb 03 18:30	18°M49'26 25°M51'34 24°M24'46 21°M47'53 19°M40'17 19°M29'10 15°M21'06 15°M04'15 19°M25'57 0°ズ 15°ズ29'55 0°उ 2°♂06'06 2°♂21'42 15°♂844'04 21°♂59'27 0°≈ 0°升 11°米23'21	0.57899 AU -5°09'29 5°08'15 18°48'47
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el	8796 Oct 20 07:42 8796 Oct 27 04:31 8796 Nov 10 02:33 8796 Nov 16 22:38 8796 Nov 20 18:40 8796 Nov 23 23:12 8796 Nov 24 06:36 8796 Dec 01 17:04 8796 Dec 08 00:09 8796 Dec 11 11:16 8796 Dec 26 12:05 8796 Dec 27 04:00 8797 Jan 05 18:59 8797 Jan 05 21:55 8797 Jan 11 11:16 8797 Jan 12 01:06 8797 Jan 13 10:16 8797 Jan 18 11:43 8797 Jan 31 00:07 8797 Feb 21 04:29 8797 Feb 23 18:06	0°ズ 7°ズ36'13 14°ズ46'08 10°ズ09'06 7°ズ35'01 7°ズ20'04 2°ズ53'20 2°ズ35'26 3°ズ41'45 6°ズ20'03 0°℧ 1°℧14'39 19°℧03'15 19°℧16'23 29°℧00'56 0°≈ 2°≈20'25 10°≈41'13 0°ዢ	0.59959 AU -4°12'33 4°10'16 18°09'00 0°41'46 0°41'34 1.41544 AU	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde	8797 Oct 09 00:06 8797 Oct 22 22:13 8797 Oct 29 00:46 8797 Nov 02 12:30 8797 Nov 05 13:28 8797 Nov 05 19:47 8797 Nov 13 17:07 8797 Nov 16 00:58 8797 Nov 24 16:15 8797 Nov 24 21:11 8797 Dec 02 16:27 8797 Dec 11 01:06 8797 Dec 18 11:45 8797 Dec 19 14:15 8797 Dec 19 17:33 8797 Dec 26 17:02 8797 Dec 29 08:14 8797 Dec 30 15:55 8798 Jan 04 11:54 8798 Feb 03 18:30 8798 Feb 15 01:25	18°M49'26 25°M51'34 24°M24'46 21°M47'53 19°M40'17 19°M29'10 15°M21'06 15°M04'15 19°M25'57 0°ズ 15°ズ29'55 0°उ 2°उ06'06 2°उ21'42 15°उ08'26 19°उ44'04 21°उ59'27 0°≈ 0°升 11°升23'21 18°升00'26	0.57899 AU -5°09'29 5°08'15 18°48'47 1°08'58 1°08'47 1.39418 AU
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde	8796 Oct 20 07:42 8796 Oct 27 04:31 8796 Nov 10 02:33 8796 Nov 16 22:38 8796 Nov 20 18:40 8796 Nov 23 23:12 8796 Nov 24 06:36 8796 Dec 01 17:04 8796 Dec 03 21:36 8796 Dec 08 00:09 8796 Dec 11 11:16 8796 Dec 26 12:05 8796 Dec 27 04:00 8797 Jan 05 18:59 8797 Jan 05 21:55 8797 Jan 11 11:16 8797 Jan 12 01:06 8797 Jan 13 10:16 8797 Jan 18 11:43 8797 Jan 18 11:43 8797 Jan 31 00:07 8797 Feb 21 04:29 8797 Mar 03 08:58	0°ズ 7°ズ36'13 14°ズ46'08 10°ズ09'06 7°ズ35'01 7°ズ20'04 2°ズ53'20 2°ズ35'26 3°ズ41'45 6°ズ20'03 0°℧ 1°℧14'39 19°℧03'15 19°℧16'23 29°℧00'56 0°≈ 2°≈20'25 10°≈41'13 0°ዢ 27°ዢ36'47 0°Ƴ 3°Ƴ38'57	0.59959 AU -4°12'33 4°10'16 18°09'00 0°41'46 0°41'34 1.41544 AU	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set	8797 Oct 09 00:06 8797 Oct 22 22:13 8797 Oct 29 00:46 8797 Nov 02 12:30 8797 Nov 05 13:28 8797 Nov 05 19:47 8797 Nov 13 17:07 8797 Nov 16 00:58 8797 Nov 24 16:15 8797 Nov 24 21:11 8797 Dec 02 16:27 8797 Dec 11 01:06 8797 Dec 18 11:45 8797 Dec 19 17:33 8797 Dec 19 17:33 8797 Dec 26 17:02 8797 Dec 29 08:14 8797 Dec 30 15:55 8798 Jan 04 11:54 8798 Feb 03 18:30 8798 Feb 15 01:25 8798 Feb 20 10:21	18°M49'26 25°M51'34 24°M24'46 21°M47'53 19°M40'17 19°M29'10 15°M21'06 15°M04'15 19°M25'57 0°ズ 15°ズ29'55 0°उ 2°उ06'06 2°उ21'42 15°उ08'26 19°उ44'04 21°उ59'27 0°≈ 0°升 11°升23'21 18°升00'26 15°升46'02	0.57899 AU -5°09'29 5°08'15 18°48'47 1°08'58 1°08'47 1.39418 AU
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el	8796 Oct 20 07:42 8796 Oct 27 04:31 8796 Nov 10 02:33 8796 Nov 16 22:38 8796 Nov 20 18:40 8796 Nov 23 23:12 8796 Nov 24 06:36 8796 Dec 01 17:04 8796 Dec 08 00:09 8796 Dec 11 11:16 8796 Dec 26 12:05 8796 Dec 27 04:00 8797 Jan 05 18:59 8797 Jan 05 21:55 8797 Jan 11 11:16 8797 Jan 12 01:06 8797 Jan 13 10:16 8797 Jan 18 11:43 8797 Jan 31 00:07 8797 Feb 21 04:29 8797 Feb 23 18:06	0°ズ 7°ズ36'13 14°ズ46'08 10°ズ09'06 7°ズ35'01 7°ズ20'04 2°ズ53'20 2°ズ35'26 3°ズ41'45 6°ズ20'03 0°℧ 1°℧14'39 19°℧03'15 19°℧16'23 29°℧00'56 0°≈ 2°≈20'25 10°≈41'13 0°ዢ	0.59959 AU -4°12'33 4°10'16 18°09'00 0°41'46 0°41'34 1.41544 AU	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde	8797 Oct 09 00:06 8797 Oct 22 22:13 8797 Oct 29 00:46 8797 Nov 02 12:30 8797 Nov 05 13:28 8797 Nov 05 19:47 8797 Nov 13 17:07 8797 Nov 16 00:58 8797 Nov 24 16:15 8797 Nov 24 21:11 8797 Dec 02 16:27 8797 Dec 11 01:06 8797 Dec 18 11:45 8797 Dec 19 14:15 8797 Dec 19 17:33 8797 Dec 26 17:02 8797 Dec 29 08:14 8797 Dec 30 15:55 8798 Jan 04 11:54 8798 Feb 03 18:30 8798 Feb 15 01:25	18°M49'26 25°M51'34 24°M24'46 21°M47'53 19°M40'17 19°M29'10 15°M21'06 15°M04'15 19°M25'57 0°ズ 15°ズ29'55 0°उ 2°उ06'06 2°उ21'42 15°उ08'26 19°उ44'04 21°उ59'27 0°≈ 0°升 11°升23'21 18°升00'26	0.57899 AU -5°09'29 5°08'15 18°48'47 1°08'58 1°08'47 1.39418 AU

inferior conj	8798 Feb 25 22:23	9° 升 17'26	1°35'52		8799 Feb 04 05:05	30° R ≈	
minimum elong	8798 Feb 25 20:25	9°) (1/20	1°35'16	asc. node	8799 Feb 07 17:19	26°≈23'44	
morning rise	8798 Mar 03 06:33	3°) 16′04	1 33 10	min. Earth dist.	8799 Feb 08 19:52	25°≈01'16	0.67443 AU
direct	8798 Mar 07 04:21	1°) 48′57		inferior conj	8799 Feb 10 03:18	23°≈20'26	0°47'19
morning max el	8798 Mar 14 21:18	6° ₩ 09'59	20°10'55	minimum elong	8799 Feb 10 02:10	23°≈24'06	0°47'01
desc. node	8798 Mar 27 08:05	22°) 06'56	20 1033	morning rise	8799 Feb 15 17:48	17°≈27'23	0 17 01
dese. node	8798 Apr 01 16:55	0°Υ		direct	8799 Feb 19 03:36	16°≈20'40	
morning set	8798 Apr 11 14:53	15° Υ 03'37		morning max el	8799 Feb 26 02:35	20°≈10'10	19°10'19
	8798 Apr 21 03:26	0°8			8799 Mar 06 00:15	0°) €	-, -, -,
max. Earth dist.	8798 Apr 21 15:45		1.43942 AU	greatest brilliancy	8799 Mar 11 08:49	7° ¥ 51'32	-0.7m
	v,, v p		,	desc. node	8799 Mar 14 04:59	12°) €09'52	**,
superior conj	8798 Apr 27 12:02	10° 8 17'35	-2°11'31	morning set	8799 Mar 21 16:21	23°) (40'00	
minimum elong	8798 Apr 27 13:48	10° 8 24'49			8799 Mar 25 18:24	0°Υ	
	8798 May 09 04:21	0°II		max. Earth dist.	8799 Apr 04 07:07	14° Υ 53'13	1.45102 AU
evening rise	8798 May 10 08:35	2° Ⅱ 01'54					
asc. node	8798 May 19 18:57	18° Ⅱ 03'49		superior conj	8799 Apr 07 06:36	19° Ƴ 35'21	-2°06'54
evening max el	8798 May 27 20:29	29° Ⅱ 01'18	18°06'52	minimum elong	8799 Apr 07 01:19	19° Y 14'25	
<i>y</i>	8798 May 28 21:59	0°9			8799 Apr 13 18:59	0°8	
retrograde	8798 Jun 03 06:22	2° 5 21'43		evening rise	8799 Apr 21 20:27	13° 8 08'26	
evening set	8798 Jun 06 00:53	1°542'59			8799 May 02 04:31	0°II	
e venning see	8798 Jun 08 16:37	30°RⅡ		asc. node	8799 May 06 16:01	6° Ⅱ 42'46	
inferior conj	8798 Jun 12 07:10	26° I I32'06	2°45'32	evening max el	8799 May 11 09:31	12° Ⅱ 29'19	18°24'03
minimum elong	8798 Jun 12 09:47	26° I I25'12		retrograde	8799 May 17 19:45	15° I 57'01	10 2.00
min. Earth dist.	8798 Jun 15 04:18		0.62422 AU	evening set	8799 May 20 21:37	15° Ⅱ 04'38	
morning rise	8798 Jun 18 16:53	20° I I25'01		inferior conj	8799 May 26 17:16		3°12'36
desc. node	8798 Jun 23 07:43	18° Ⅱ 11'24		minimum elong	8799 May 26 18:44	9° Ⅱ 31'41	3°12'13
direct	8798 Jun 25 10:53	17° I 57'01		min. Earth dist.	8799 May 28 24:00	6° Ⅱ 56'28	0.64442 AU
morning max el	8798 Jul 09 13:07		27°54'35	morning rise	8799 Jun 01 14:51	3° Ⅱ 20′08	
	8798 Jul 13 06:18	0ಂಣ		direct	8799 Jun 08 07:05	0° П 37'24	
	8798 Aug 02 16:23	$0^{\circ}\Omega$		desc. node	8799 Jun 10 04:44	0° Ⅱ 49'14	
morning set	8798 Aug 12 13:05	18° Ω 40'14		morning max el	8799 Jun 21 22:51	8° I I36'12	27°26'56
asc. node	8798 Aug 15 18:22	25° Ω 20'40			8799 Jul 08 13:30	0°ಅ	
	8798 Aug 17 22:44	0° m)			8799 Jul 26 00:13	0°N	
max. Earth dist.	8798 Aug 17 23:12	0° m 02'30	1.32172 AU	morning set	8799 Jul 27 04:37	2°Ω18'15	
man. Darm dist.	07901148 17 20.12	0 .0 02 50	1.52172110	max. Earth dist.	8799 Jul 31 21:49	11° Ω 49'44	1.33165 AU
superior conj	8798 Aug 20 02:59	4° m 43'28	0°42'56	asc. node	8799 Aug 02 15:18	15° Ω 26'34	1.55100110
minimum elong	8798 Aug 20 01:10	4° m 33'35	0°42'28				
evening rise	8798 Aug 26 23:06	19° m 38'26		superior conj	8799 Aug 04 07:50	19°Ω01'20	0°16'58
8	8798 Aug 31 23:17	0∘ <u>⊽</u>		minimum elong	8799 Aug 04 07:00	18° Ω 56'53	0°16'37
desc. node	8798 Sep 19 06:26	28° ≏ 02'15		Č	8799 Aug 09 10:25	0° m)	
evening max el	8798 Sep 20 12:44	29° £ 18′03	24°06'44	evening rise	8799 Aug 11 10:26	4° m) 16'23	
Ü	8798 Sep 21 06:35	0° M		C	8799 Aug 25 08:13	0∘ <u>⊽</u>	
retrograde	8798 Oct 04 05:25	6°M09'39		evening max el	8799 Sep 02 00:40	9° ₽ 29'00	22°26'58
evening set	8798 Oct 09 02:02	5° M ₁7'49		desc. node	8799 Sep 06 03:33	12° ♀ 54'42	
min. Earth dist.	8798 Oct 14 23:26		0.56134 AU	retrograde	8799 Sep 15 00:27	15° £ 57'35	
inferior conj	8798 Oct 17 07:13	0°M57'05	-5°37'14	evening set	8799 Sep 18 08:56	15° ≙ 32'48	
minimum elong	8798 Oct 17 08:08	0°M55'42		min. Earth dist.	8799 Sep 26 07:21		0.54978 AU
C	8798 Oct 18 20:49	30° Ŗ Ω		inferior conj	8799 Sep 27 07:13	11° ≏ 28'58	-5°16'26
morning rise	8798 Oct 25 16:18	26° £ 58'32		minimum elong	8799 Sep 27 00:31	11° ≏ 38'27	
direct	8798 Oct 28 09:09	26° £ 39'34		morning rise	8799 Oct 05 17:55	7° £ 41'21	
	8798 Nov 05 19:31	0°M,		direct	8799 Oct 09 00:04	7° £ 17'25	
morning max el	8798 Nov 07 09:51		19°50'59	morning max el	8799 Oct 20 14:18	12° ≏ 43'54	21°15'14
asc. node	8798 Nov 11 18:10	6°M21'13		asc. node	8799 Oct 29 15:07	24° £ 12'37	
morning set	8798 Nov 25 05:19	0° ∡ 03′29			8799 Nov 02 01:04	0° M	
•	8798 Nov 25 04:38	0° ∡ ¹		morning set	8799 Nov 09 14:01	14° M 47'46	
				-			
superior conj	8798 Dec 03 00:20	15° ∡ 50′27	1°27'24	superior conj	8799 Nov 16 21:02	0° ≯ 04'26	1°37'48
minimum elong	8798 Dec 03 02:51	16° ∡ *02'56	1°27'23	minimum elong	8799 Nov 16 22:19	0° ∡ 11'02	1°37'56
max. Earth dist.	8798 Dec 08 23:14	27° ∡ ¹20'52	1.37260 AU	3	8799 Nov 16 20:11	0° ∡ ¹	
	8798 Dec 10 09:31	0°ರ		max. Earth dist.	8799 Nov 21 09:29	9° ∡ 14'58	1.35299 AU
evening rise	8798 Dec 12 17:07	4°る12'29		evening rise	8799 Nov 25 12:05	17° ∡ 11'58	
desc. node	8798 Dec 16 05:14	10° る 21'20		Č	8799 Dec 02 14:56	0°ප	
	8798 Dec 28 12:06	0° ≈		desc. node	8799 Dec 03 02:15	0° る 48'17	
evening max el						0°≈	
	8799 Jan 17 07:45	25° ≈ 11'47	25°30'29		8799 Dec 22 20:31	0~	
	8799 Jan 17 07:45 8799 Jan 23 03:40	25°≈11'47 0° 米	25°30'29	evening max el	8799 Dec 22 20.51 8799 Dec 30 20:58	0 ≈ 8°≈56'26	26°32'24
retrograde			25°30'29	•			26°32'24
retrograde evening set	8799 Jan 23 03:40	0° ∀	25°30'29	evening max el retrograde evening set	8799 Dec 30 20:58	8° ≈ 56′26	26°32'24

min. Earth dist.	8800 Jan 23 08:12	9° ≈ 27'18	0.66356 AU	evening max el	8800 Dec 12 09:54	22°る28'44	27°14'26
inferior conj	8800 Jan 25 03:21		-0°09'13	retrograde	8800 Dec 25 20:51	22 3 20 47 29° る 50'13	27 1420
minimum elong	8800 Jan 25 03:35	7°≈17'25	0°08'55	evening set	8801 Jan 01 16:18	27°る14'36	
transit middle	8800 Jan 25 03:35	7°≈17'25	0°08'55	min. Earth dist.	8801 Jan 05 13:26	23° る 36'10	0.64910 AU
transit begin	8800 Jan 25 01:10	7°≈24'41	0 0000	inferior conj	8801 Jan 07 20:14	21°る05'48	
transit end	8800 Jan 25 06:00	7°≈10'10		minimum elong	8801 Jan 07 22:26	20°る59'45	
asc. node	8800 Jan 25 14:24	6°≈45'06		asc. node	8801 Jan 11 11:29	17° る 26'23	1 1100
morning rise	8800 Jan 31 02:28	1°≈35'37		morning rise	8801 Jan 14 06:03	15° る 36'15	
direct	8800 Feb 03 01:45	0° ≈ 46'15		direct	8801 Jan 16 20:39	15° る 00'31	
morning max el	8800 Feb 09 14:36	4°≈16'52	18°25'48	morning max el	8801 Jan 23 06:51	18° る 23'19	17°58'06
	8800 Feb 27 12:11	0°) €			8801 Jan 31 22:13	0° ≈	
desc. node	8800 Feb 29 01:52	2°) 29'54		morning set	8801 Feb 09 22:10	14°≈44'07	
morning set	8800 Feb 29 16:27	3° ¥ 27'52		desc. node	8801 Feb 14 22:47	23° ≈ 02'13	
•					8801 Feb 19 05:23	0° ∀	
superior conj	8800 Mar 16 12:05	28°) 24′27	-1°42'07				
minimum elong	8800 Mar 16 02:31	27°) 46′59	1°41'12	superior conj	8801 Feb 23 23:26	7°) €37'15	-1°02'29
max. Earth dist.	8800 Mar 17 02:07	29°) 1 9′22	1.45550 AU	minimum elong	8801 Feb 23 16:18	7°) €08'54	1°01'28
	8800 Mar 17 12:31	$0^{\circ}\Upsilon$		max. Earth dist.	8801 Feb 27 21:38	13°)(49'44	1.45254 AU
evening rise	8800 Apr 01 08:43	23° Y 17'35			8801 Mar 10 07:02	0 ° Υ	
	8800 Apr 05 14:43	9° 8		evening rise	8801 Mar 12 02:14	2° Y 46'26	
greatest brilliancy	8800 Apr 11 03:13	8° 8 39'20	-0.8m	greatest brilliancy	8801 Mar 26 08:17	24° Y 23'04	-0.6m
asc. node	8800 Apr 22 13:07	24° 8 42'36			8801 Mar 30 05:58	9° 8	
evening max el	8800 Apr 23 19:41	26° 8 04'21	18°58'57	evening max el	8801 Apr 07 01:16	9° 8 43'09	19°50'08
retrograde	8800 Apr 30 14:58	29° 8 52'05		asc. node	8801 Apr 09 10:14	11° 8 51'58	
evening set	8800 May 04 00:27	28° 8 45'15		retrograde	8801 Apr 14 13:01	14° 8 01'33	
inferior conj	8800 May 09 13:05	23° 8 00'33	3°22'02	evening set	8801 Apr 18 06:55	12° 8 39'45	
minimum elong	8800 May 09 13:15	23° 8 00'02	3°21'51	inferior conj	8801 Apr 23 15:36	6° 8 40'49	3°17'26
min. Earth dist.	8800 May 11 04:32	20° 8 55'38	0.66101 AU	minimum elong	8801 Apr 23 14:38	6° 8 44'03	3°17'13
morning rise	8800 May 15 01:32	16° 8 41'45		min. Earth dist.	8801 Apr 24 16:22	5° 8 17'49	0.67336 AU
direct	8800 May 21 10:28	13° 8 55'57		morning rise	8801 Apr 28 22:03	0° 8 22'43	
desc. node	8800 May 27 01:45	15° 8 40'07		-	8801 Apr 29 08:26	30° ₹ Υ	
morning max el	8800 Jun 03 09:31	21° 8 38'41	26°29'34	direct	8801 May 04 20:00	27° Y ′44'27	
	8800 Jun 10 16:01	$\Pi^{\circ}0$			8801 May 11 01:16	0° ႘	
	8800 Jun 30 18:39	0 \circ \odot		desc. node	8801 May 13 22:44	2° 8 13'41	
morning set	8800 Jul 09 08:32	15°520'24		morning max el	8801 May 16 19:14	4° 8 55'11	25°11'35
max. Earth dist.	8800 Jul 13 10:00	23° © 09'51	1.34636 AU		8801 Jun 05 01:54	$\Pi^{\circ}0$	
	8800 Jul 16 19:48	$0^{\circ}\Omega$		morning set	8801 Jun 21 20:33	27° Ⅲ 35′20	
					8801 Jun 23 04:37	0 \circ \odot	
superior conj	8800 Jul 18 06:05	2° Ω 55'47	-0°12'34	max. Earth dist.	8801 Jun 25 11:39	4° 5 013'11	1.36544 AU
minimum elong	8800 Jul 18 06:48	2° Ω 59'28	0°12'38				
behind sun begin	8800 Jul 18 03:08	2° Ω 40'35		superior conj	8801 Jul 01 18:55	16° © 19'43	-0°44'21
behind sun end	8800 Jul 18 10:28	3° Ω 18′23		minimum elong	8801 Jul 01 21:38	16° © 33'11	0°44'04
asc. node	8800 Jul 19 12:15	5° Ω 31'58		asc. node	8801 Jul 06 09:15	25° © 33'12	
evening rise	8800 Jul 25 19:39	18° Ω 44'21			8801 Jul 08 13:47	$0 {\circ} \Omega$	
	8800 Jul 31 10:12	O° Mp		evening rise	8801 Jul 10 00:33	2° Ω 56′15	
evening max el	8800 Aug 13 21:02	19° m 58'54	20°55'43		8801 Jul 26 03:30	0° ™	
desc. node	8800 Aug 23 00:41	25°Mp 29'52		evening max el	8801 Jul 27 06:46	1°Mp11'07	19°42'19
retrograde	8800 Aug 25 12:52	25° m 45'34		retrograde	8801 Aug 06 05:37	6° Mp 06′03	
evening set	8800 Aug 27 18:15	25° m 33'47		evening set	8801 Aug 08 02:01	5° Mp 56'36	
inferior conj	8800 Sep 05 23:34	21°M/37'08		desc. node	8801 Aug 09 21:50	5° ™ 29'55	
minimum elong	8800 Sep 05 13:59	21° m 50'45		inferior conj	8801 Aug 16 22:50	1° m/54'00	
min. Earth dist.	8800 Sep 06 16:08	21°Mp 13'36	0.54683 AU	minimum elong	8801 Aug 16 16:57	2°Mp03'09	
morning rise	8800 Sep 14 09:55	17° m 40'47		min. Earth dist.	8801 Aug 19 03:45	0° Mp 31'46	0.55350 AU
direct	8800 Sep 18 07:54	17° m 07'55			8801 Aug 20 00:52	30°R Ω	
morning max el	8800 Oct 01 07:40	23°M 20'52	22°56'20	morning rise	8801 Aug 25 05:44	27° Ω 29'30	
	8800 Oct 07 05:52	0∘ ত		direct	8801 Aug 29 22:45	26° Ω 40'17	
asc. node	8800 Oct 15 12:04	12° ≏ 47'05			8801 Sep 08 10:39	0° ™	
morning set	8800 Oct 24 01:08	29° Ω 36'54		morning max el	8801 Sep 12 19:57	3° m 34'48	24°42'16
	8800 Oct 24 05:30	0°M₊			8801 Oct 01 08:57	0∘ ত	
				asc. node	8801 Oct 02 09:00	1° ≏ 53'55	
superior conj	8800 Oct 31 01:03	14°M38'20		morning set	8801 Oct 08 12:52	14° ≏ 25'29	
minimum elong	8800 Oct 31 01:03	14°M38'17					
max. Earth dist.	8800 Nov 03 03:16	21°M10'54	1.33697 AU	superior conj	8801 Oct 15 09:43	29° Ω 23'45	1°37'58
	8800 Nov 07 11:09	0°⊀		minimum elong	8801 Oct 15 08:37	29° △ 17'43	1°38'01
evening rise	8800 Nov 07 21:00	0° ≯ 48'40 −			8801 Oct 15 16:21	0° M	
desc. node	8800 Nov 18 23:19	20° ∡ 59'37		max. Earth dist.	8801 Oct 17 05:05	3°M20′02	1.32540 AU
	8800 Nov 24 14:56	0°ප		evening rise	8801 Oct 22 16:21	14°M52'58	

	8801 Oct 30 12:41	0° ₹		desc. node	8802 Oct 23 17:31	0° ∡ '03'47	
desc. node	8801 Nov 05 20:24	10° ∡ °47′53			8802 Oct 23 16:32	0° ∡ ¹	
	8801 Nov 19 14:14	0°ಕ		evening max el	8802 Nov 07 04:23	18° ∡ ′07'59	27°12'45
evening max el	8801 Nov 24 21:11	5° る 36'53	27°29'42	retrograde	8802 Nov 21 01:18	25° х 19'31	
retrograde	8801 Dec 08 15:04	12° る 55'17		evening set	8802 Nov 28 01:57	23° ∡ 06'51	
evening set	8801 Dec 15 16:16	10° る 26'13		min. Earth dist.	8802 Dec 01 19:05	20° ∡ 121'46	0.61166 AU
min. Earth dist.	8801 Dec 19 09:33	7° る 18'00	0.63153 AU	inferior conj	8802 Dec 04 21:04	17° ∡ ¹40'43	
inferior conj	8801 Dec 22 03:12	4° る 36'00		minimum elong	8802 Dec 05 03:46	17° ∡ ¹26′04	3°30'59
minimum elong	8801 Dec 22 07:45	4° る 24'47	2°20'17	morning rise	8802 Dec 12 07:55	12° ∡ ¹46′11	
	8801 Dec 27 16:39	30°₹ ৴		direct	8802 Dec 14 12:50	12° ∡ 26′09	
morning rise	8801 Dec 29 01:16	29° ₹ 22'18		asc. node	8802 Dec 16 05:36	12° ⋌ ³38'28	
asc. node	8801 Dec 29 08:33	29° 🖈 16'02		morning max el	8802 Dec 21 15:38	16° ₹ '00'48	17°55'35
direct	8801 Dec 31 09:31	28° ₹ 56'14			8802 Dec 31 09:50	0°る	
	8802 Jan 04 00:54	0°る	17047140	morning set	8803 Jan 06 07:28	10° る 36'48	
morning max el	8802 Jan 07 00:17	2°る20'44	17°47'42	:	0002 I 16 17-20	200710141	0922102
morning set	8802 Jan 23 05:21	27°る13'46 0°≈		superior conj	8803 Jan 16 17:20	29°る18'41 29°る26'46	0°22'03
desc. node	8802 Jan 24 19:34 8802 Feb 01 19:42			minimum elong	8803 Jan 16 19:11		0°21'59
desc. node	8802 Feb 01 19:42	13° ≈ 41'59		desc. node	8803 Jan 17 02:50 8803 Jan 19 16:39	0° ≈ 4° ≈ 25'44	
superior aoni	8802 Feb 04 07:37	17° ≈ 51'33	0010117	max. Earth dist.	8803 Jan 19 16:39 8803 Jan 24 05:20	4°≈25'44 12°≈00'44	1.42665 AU
superior conj minimum elong	8802 Feb 04 07:37 8802 Feb 04 05:43	17 ≈3133 17°≈43'40	0°17'50	evening rise	8803 Jan 30 09:52	12 ≈00 44 21°≈59'24	1.42003 AU
max. Earth dist.	8802 Feb 10 15:18	28°≈08'18	1.44255 AU	evening rise	8803 Feb 04 13:34	0° \	
max. Earth dist.	8802 Feb 11 19:19	20 ≈ 00 10	1.44233 AU		8803 Feb 25 16:23	0°Υ	
evening rise	8802 Feb 19 13:31	12°) €08'02		evening max el	8803 Mar 03 20:22	7° Υ '05'06	22°10'15
evening rise	8802 Mar 03 10:07	0°Υ		retrograde	8803 Mar 13 08:46	12° Υ 43'17	22 10 13
evening max el	8802 Mar 21 01:24	23° Y 23'27	20°55'10	asc. node	8803 Mar 14 04:30	12° Υ 39'52	
asc. node	8802 Mar 27 07:22	27° Y 56'09	20 33 10	evening set	8803 Mar 17 22:56	10° Υ 50'53	
retrograde	8802 Mar 29 11:33	28° Y 20'03		inferior conj	8803 Mar 23 06:43	4° Υ 30'09	2°35'13
evening set	8802 Apr 02 14:58	26° Y 42'57		minimum elong	8803 Mar 23 04:32	4° Ƴ 37'47	2°34'39
inferior conj	8802 Apr 07 22:11	20° Ƴ 31'51	3°01'19	min. Earth dist.	8803 Mar 23 05:14	4° Y °35'21	0.68460 AU
minimum elong	8802 Apr 07 20:25	20° Υ 37'59	3°00'56		8803 Mar 26 17:44	30°R) €	
min. Earth dist.	8802 Apr 08 09:20	19° Y 53'20	0.68120 AU	morning rise	8803 Mar 28 09:58	28°) 19'30	
morning rise	8802 Apr 13 01:38	14° Y 16'44		direct	8803 Apr 02 04:57	26° ¥ 17'33	
direct	8802 Apr 18 10:32	11° Y 54'09			8803 Apr 09 16:52	0° Υ	
morning max el	8802 Apr 29 04:21	18° Ƴ 18'51	23°43'16	morning max el	8803 Apr 11 15:43	1° Y 50'14	22°14'19
desc. node	8802 Apr 30 19:41	20° Y 02'02		desc. node	8803 Apr 17 16:36	8° Y '44'26	
	8802 May 08 23:32	9° 8			8803 May 02 21:57	9° 8	
	8802 May 29 04:11	$\Pi^{\circ}0$		morning set	8803 May 14 23:55	18° 8 48'36	
morning set	8802 Jun 03 11:23	8° Ⅱ 48'59		max. Earth dist.	8803 May 20 06:18	27° 8 30'11	1.40991 AU
max. Earth dist.	8802 Jun 07 07:54	15° Ⅱ 29'39	1.38745 AU		8803 May 21 17:44	Π \circ 0	
superior conj	8802 Jun 14 18:43	29° ∏ 04′24	-1°16'19	superior conj	8803 May 28 01:01	10° Ⅱ 58'40	-1°45'06
minimum elong	8802 Jun 14 23:31	29° Ⅱ 26′58	1°15'48	minimum elong	8803 May 28 06:58	11° Ⅱ 25′16	1°44'40
	8802 Jun 15 06:31	0 \circ \odot		evening rise	8803 Jun 07 09:41	0° ട 00'53	
asc. node	8802 Jun 23 06:17	15° © 26'18			8803 Jun 07 09:30	0 \circ	
evening rise	8802 Jun 23 22:23	16°9544'52		asc. node	8803 Jun 10 03:20	5° 5 06'16	
	8802 Jun 30 23:11	0 $^{\circ}$ Ω		evening max el	8803 Jun 23 11:48	25° © 42'27	18°17'32
evening max el	8802 Jul 10 04:54	13° Ω 08′25	18°49'39	retrograde	8803 Jun 30 17:39	29°520'50	
retrograde	8802 Jul 18 13:57	17° Ω 17'50		evening set	8803 Jul 03 00:12	29°900'07	1015146
evening set	8802 Jul 20 13:29	17° Ω 04'47		inferior conj	8803 Jul 10 07:17	24°9519'54	1°15'46
desc. node	8802 Jul 27 18:56	13° Ω 23'18	0017113	minimum elong	8803 Jul 10 09:38	24°5514'53	1°14'44
inferior conj	8802 Jul 28 16:12	12° Ω 45'15		min. Earth dist.	8803 Jul 13 16:31	21°529'19	0.58893 AU
minimum elong	8802 Jul 28 15:32	12° Ω 46'27	0°16'08	desc. node	8803 Jul 14 16:02	20°543'31	
min. Earth dist.	8802 Jul 31 19:14	10° Ω 30'45 7° Ω 44'02	0.56850 AU	morning rise direct	8803 Jul 17 15:51 8803 Jul 23 21:26	18° © 44'59 17° © 00'19	
morning rise direct	8802 Aug 05 14:14	6° Ω 29'52					27°23'48
morning max el	8802 Aug 11 03:18 8802 Aug 25 10:08	13° Ω 55'14	26°16'36	morning max el	8803 Aug 07 06:34 8803 Aug 12 01:29	24° © 46'53 0° Ω	21 2340
morning max ci	8802 Sep 07 04:28	0° Mp	20 10 30		8803 Aug 31 11:09	o∘my	
asc. node	8802 Sep 07 04.28 8802 Sep 19 05:57	ابات 21° Mp 24'37		asc. node	8803 Sep 06 02:53	0 yy 11°M7)11'36	
morning set	0002 00p 17 00.01	-		morning set	8803 Sep 07 07:42	13° Mp 41'58	
	8802 Sep. 22, 23:38	79° III (10' 17)				סכנדעוו כנ	
morning set	8802 Sep 22 23:38 8802 Sep 23 09:10	29° ™ 09'10 0° ≏		morning sec	0003 Sep 07 07.12	•	
morning sec	8802 Sep 22 23:38 8802 Sep 23 09:10	29° ம 0° உ			-	•	1°15'02
·	8802 Sep 23 09:10		1°29'09	superior conj	8803 Sep 14 08:43	29° m 02'29	1°15'02 1°14'42
superior conj	8802 Sep 23 09:10 8802 Sep 29 20:56	0∘ ⊽	1°29'09 1°29'00		8803 Sep 14 08:43 8803 Sep 14 06:29	29° m 02'29 28° m 50'06	
·	8802 Sep 23 09:10 8802 Sep 29 20:56 8802 Sep 29 19:04	0° ჲ 14° ჲ 14'07		superior conj minimum elong	8803 Sep 14 08:43 8803 Sep 14 06:29 8803 Sep 13 23:02	29° m 02'29	1°14'42
superior conj minimum elong max. Earth dist.	8802 Sep 23 09:10 8802 Sep 29 20:56	0° ჲ 14° ჲ 14'07 14° ჲ 03'45	1°29'00	superior conj minimum elong max. Earth dist.	8803 Sep 14 08:43 8803 Sep 14 06:29 8803 Sep 13 23:02 8803 Sep 14 19:04	29° m 02'29 28° m 50'06 28° m 08'45	1°14'42
superior conj minimum elong	8802 Sep 23 09:10 8802 Sep 29 20:56 8802 Sep 29 19:04 8802 Sep 30 12:54	0° Ω 14° Ω 14'07 14° Ω 03'45 15° Ω 42'33	1°29'00	superior conj minimum elong	8803 Sep 14 08:43 8803 Sep 14 06:29 8803 Sep 13 23:02	29° m 02'29 28° m 50'06 28° m 08'45 0° <u>a</u>	1°14'42

JJ.	0002 0-4 10 14-20	100 M 22140			0004 0 05 05.52	000	
desc. node	8803 Oct 10 14:38	18°M33'40	26021150		8804 Sep 05 05:53	ია ო	
evening max el	8803 Oct 20 04:32	29°M49'55	26°21'50		8804 Sep 21 21:46	0°M,	
. 1	8803 Oct 20 08:49	0° √ 1		desc. node	8804 Sep 26 11:45	5°M59'34	25001120
retrograde	8803 Nov 03 02:29	6° ₹ 755'14		evening max el	8804 Sep 30 20:29	10°M41'07	25°01'30
evening set	8803 Nov 09 16:55	5°×709'01	0.50072.441	retrograde	8804 Oct 14 17:09	17°M40'12	
min. Earth dist.	8803 Nov 13 17:48	2° ⋌ ³34'28	0.59073 AU	evening set	8804 Oct 20 08:32	16°M28'09	0.55005.444
inferior conj	8803 Nov 16 22:14	0° ₹ 09'45		min. Earth dist.	8804 Oct 25 07:58	13°M45'53	0.57097 AU
minimum elong	8803 Nov 17 05:37	29°M55'42	4°3′/'06	inferior conj	8804 Oct 28 03:43	11°M.54'14	
	8803 Nov 17 03:21	30°RM.		minimum elong	8804 Oct 28 08:18		5°25'22
morning rise	8803 Nov 24 20:42	25°M37'33		morning rise	8804 Nov 05 10:21	7° ጤ 44'51	
direct	8803 Nov 27 02:13	25°M20'21		direct	8804 Nov 07 21:20	7°M27'33	
asc. node	8803 Dec 03 02:36	27°M33'48		morning max el	8804 Nov 17 01:59	11°ML50'19	19°12'32
morning max el	8803 Dec 05 01:25	29°M14'05	18°23'18	asc. node	8804 Nov 18 23:35	13°M49'55	
	8803 Dec 05 19:34	0° ∡			8804 Nov 29 08:15	0° ∡ ¹	
morning set	8803 Dec 20 22:52	24° ∡ ³36′24		morning set	8804 Dec 03 23:19	9° ∡ ¹00'06	
	8803 Dec 23 18:30	0° る					
				superior conj	8804 Dec 12 03:55	25° ∡ 12'49	1°17'50
superior conj	8803 Dec 30 01:47	11° る 50'41	0°54'25	minimum elong	8804 Dec 12 06:58	25° ∡ ¹27'36	1°17'42
minimum elong	8803 Dec 30 05:03	12° る 05'44	0°54'11		8804 Dec 14 15:56	0°₹	
max. Earth dist.	8804 Jan 06 14:34	25° る 14'06	1.40658 AU	max. Earth dist.	8804 Dec 18 20:18	7° る 44'19	1.38482 AU
desc. node	8804 Jan 06 13:37	25° る 10'01		evening rise	8804 Dec 22 14:39	14° පි 24'50	
	8804 Jan 09 10:02	0° ≈		desc. node	8804 Dec 23 10:35	15° る 50'58	
evening rise	8804 Jan 11 01:19	2° ≈ 43'07			8805 Jan 01 01:09	0° ≈	
	8804 Jan 28 21:07	0°) €			8805 Jan 22 17:52	0° ∀	
evening max el	8804 Feb 14 11:30	20°) (49′12	23°30'12	evening max el	8805 Jan 27 00:45	4°) 35′49	24°48'46
retrograde	8804 Feb 25 03:19	27° ₩ 07'03		retrograde	8805 Feb 07 18:03	11° ∺ 25'41	
asc. node	8804 Feb 29 01:37	25° ¥ 51'59		evening set	8805 Feb 13 08:23	9° ₩ 05'47	
evening set	8804 Mar 01 05:15	25° ₩ 00'02		asc. node	8805 Feb 14 22:43	7°) 33′24	
min. Earth dist.	8804 Mar 06 01:55	19° ¥ 18'57	0.68374 AU	min. Earth dist.	8805 Feb 17 21:11	3° ¥ 59'09	0.67887 AU
inferior conj	8804 Mar 06 15:18	18° ¥ 33'01	2°00'02	inferior conj	8805 Feb 18 22:05	2°) (36'46	1°16'15
minimum elong	8804 Mar 06 13:07	18°) 40′30	1°59'24	minimum elong	8805 Feb 18 20:25	2°) (42'19	1°15'45
morning rise	8804 Mar 11 20:58	12° ¥ 28'01		8	8805 Feb 20 22:58	30°R≈	
direct	8804 Mar 16 02:12	10°) 48′29		morning rise	8805 Feb 24 08:40	26° ≈ 38'48	
morning max el	8804 Mar 24 08:51	15°) 33'00	20°52'37	direct	8805 Feb 28 01:05	25°≈20'53	
desc. node	8804 Apr 03 13:30	28° \ 06'11	20 3237	morning max el	8805 Mar 07 09:39	29°≈27'18	19°43'18
dese. Hode	8804 Apr 04 22:10	0° Υ		morning max ci	8805 Mar 07 22:36	0° ₩	17 45 10
morning set	8804 Apr 23 10:26	27° Υ '38'39		greatest brilliancy	8805 Mar 20 03:33	16° ¥ 02'32	-0.6m
morning sec	8804 Apr 24 22:32	0° 8		desc. node	8805 Mar 21 10:22	17°\ 56'05	-0.0111
max. Earth dist.	8804 May 01 11:09		1.42990 AU	desc. Hode	8805 Mar 29 10:29	0° Υ	
max. Earth dist.	8804 May 01 11.09	10 023 14	1.42990 AU	morning set	8805 Apr 02 08:03	5° Υ 58'43	
gunariar agni	9904 May 09 00-11	21° 8 52'37	2005144	max. Earth dist.	-	24° Υ 05'46	1.44507 AU
superior conj	8804 May 08 09:11	_		max. Earth dist.	8805 Apr 13 22:32	0° 8	1.44307 AU
minimum elong	8804 May 08 13:41 8804 May 13 03:01	22° 8 11'35 0° Ⅱ	2 03 42		8805 Apr 17 15:18	0.0	
avanina riaa	,	0 П 12°П34'26		avmariar aani	0005 Amr 10 16:24	1° 8 41'45	2012/02
evening rise	8804 May 20 06:13 8804 May 27 00:23	12 Ⅲ 34 26 24° Ⅱ 28'07		superior conj minimum elong	8805 Apr 18 16:34	1° 8 37'27	
asc. node	-			Č	8805 Apr 18 15:30		2 1207
·	8804 May 30 08:52	0°95	10005114	evening rise	8805 May 02 07:07	24° 8 14'02	
evening max el	8804 Jun 05 23:42	8°544'16	18°05'14	1	8805 May 05 16:49	0°Ⅱ 120Ⅲ2444	
retrograde	8804 Jun 12 13:57 8804 Jun 15 04:03	12°907'18		asc. node	8805 May 13 21:27	13° Ⅲ 24'44 22° Ⅲ 04'34	18°11'59
evening set		11°535'53	2020107	evening max el	8805 May 20 13:10		18-11-39
inferior conj	8804 Jun 21 18:15	6°935'43	2°20'06	retrograde	8805 May 26 22:15	25° Ⅱ 26'41	
minimum elong	8804 Jun 21 21:13	6°9528'27	2°19'06	evening set	8805 May 29 19:46	24° Ⅱ 42'28	2050124
min. Earth dist.	8804 Jun 24 21:55	3°931'55	0.61144 AU	inferior conj	8805 Jun 04 21:05	19° Ⅱ 24'00	2°59'24
morning rise	8804 Jun 28 11:59	0°537'01		minimum elong	8805 Jun 04 23:15	19° Ⅱ 17'58	
	8804 Jun 29 11:46	30°RⅡ		min. Earth dist.	8805 Jun 07 12:26		0.63313 AU
desc. node	8804 Jun 30 13:05	29° Ⅱ 26'57		morning rise	8805 Jun 11 01:16	13° Ⅱ 12'02	
direct	8804 Jul 05 03:27	28° Ⅱ 22'46		desc. node	8805 Jun 17 10:07	10° Ⅱ 36'34	
	8804 Jul 11 03:47	0° ©		direct	8805 Jun 17 19:18	10° Ⅱ 36'05	
morning max el	8804 Jul 19 09:53	6°\$22'29	27°54'24	morning max el	8805 Jul 01 18:00	18° Ⅱ 39'13	27°46'55
	8804 Aug 06 05:34	0° Ω			8805 Jul 11 07:30	0°©	
morning set	8804 Aug 21 11:12	27° Ω 58'48			8805 Jul 30 03:22	0°Ω	
	8804 Aug 22 10:33	0° m		morning set	8805 Aug 05 07:54	11° Ω 53'19	
asc. node	8804 Aug 22 23:50	1°Mp09'36		asc. node	8805 Aug 09 20:48	21° Ω 13'58	
max. Earth dist.	8804 Aug 27 07:40	10° m 27'40	1.31829 AU	max. Earth dist.	8805 Aug 10 10:46	22° Ω 27'58	1.32529 AU
						_	
superior conj	8804 Aug 28 19:19	13° m 43'29	0°56'00	superior conj	8805 Aug 13 02:53	28° Ω 11'46	0°32'25
minimum elong	8804 Aug 28 17:12	13° m 31'50	0°55'32	minimum elong	8805 Aug 13 01:25	28° Ω 03'50	0°31'59
evening rise	8804 Sep 04 13:37	28° m 33'04			8805 Aug 13 22:51	0° m	

evening rise	8805 Aug 20 01:15	13° m) 13'38		behind sun begin	8806 Jul 27 23:38	11° Ω 50'59	
e vennig rise	8805 Aug 28 10:44	0° ⊽		behind sun end	8806 Jul 28 10:27	12° Ω 47'55	
evening max el	8805 Sep 12 07:47	20° ♀ 58'33	23°24'13	evening rise	8806 Aug 04 11:56	27° Ω 48'00	
desc. node	8805 Sep 13 08:53	21° Ω 57'14		3	8806 Aug 05 13:08	0° m)	
retrograde	8805 Sep 25 19:35	27° Ω 43'04			8806 Aug 23 17:33	0∘ <u>⊽</u>	
evening set	8805 Sep 30 00:28	27° Ω 04'29		evening max el	8806 Aug 24 22:34	1° ≏ 14'30	21°46'32
min. Earth dist.	8805 Oct 06 17:33	23° Ω 56'01	0.55546 AU	desc. node	8806 Aug 31 06:02	5° ≏ 55'26	
inferior conj	8805 Oct 08 13:20	22° ≏ 51'34	-5°35'16	retrograde	8806 Sep 06 10:26	7° ≏ 26'44	
minimum elong	8805 Oct 08 10:55	22° ჲ 55'08	5°35'04	evening set	8806 Sep 09 05:22	7° ഫ 09'15	
morning rise	8805 Oct 16 23:25	18° ≏ 59'19		inferior conj	8806 Sep 18 08:34	3° ₽ 10′26	-4°50'30
direct	8805 Oct 19 21:15	18° ≏ 38'46		minimum elong	8806 Sep 17 23:43	3° ჲ 22'48	4°48'37
morning max el	8805 Oct 30 14:13	23° ≙ 40'31	20°24'15	min. Earth dist.	8806 Sep 18 01:45	3° ♀ 19'57	0.54737 AU
	8805 Nov 05 00:24	0° M			8806 Sep 24 18:15	30°₽, Т р	
asc. node	8805 Nov 05 20:34	1°M11'25		morning rise	8806 Sep 26 19:15	29° m 21'29	
morning set	8805 Nov 18 05:46	23°M39'32		direct	8806 Sep 30 08:00	28° m 54'11	
	8805 Nov 21 07:31	0° ∡			8806 Oct 05 15:37	0∘ ত	
				morning max el	8806 Oct 12 13:24	4° ≏ 40'49	21°56'34
superior conj	8805 Nov 25 19:03	9° √ 11'54	1°32'44	asc. node	8806 Oct 23 17:31	19° ≏ 22'47	
minimum elong	8805 Nov 25 21:04	9° ∡ 22'06	1°32'47		8806 Oct 29 12:32	0° M	
max. Earth dist.	8805 Dec 01 03:20	19° ∡ ⁴45'23	1.36389 AU	morning set	8806 Nov 02 15:46	8°M26'42	
evening rise	8805 Dec 04 24:00	26° ₹ 59'52					
	8805 Dec 06 15:45	5°0		superior conj	8806 Nov 09 19:15	23°M35'27	1°39'59
desc. node	8805 Dec 10 07:37	6° る 24'56		minimum elong	8806 Nov 09 19:58	23°M39'14	1°40'09
	8805 Dec 25 11:05	0° ≈			8806 Nov 12 21:17	0° ∡ ¹	
evening max el	8806 Jan 09 13:57	18° ≈ 23'45	25°58'50	max. Earth dist.	8806 Nov 13 16:41	1° ∡ ³38'52	1.34575 AU
retrograde	8806 Jan 22 03:58	25° ≈ 34'00		evening rise	8806 Nov 18 01:26	10° ∡ 16'53	
evening set	8806 Jan 28 06:41	23° ≈ 04'15		desc. node	8806 Nov 27 04:41	26° ∡ ¹46′10	
min. Earth dist.	8806 Feb 01 12:52	18° ≈ 32'06	0.67022 AU		8806 Nov 29 03:14	8°0	
asc. node	8806 Feb 01 19:47	18° ≈ 10'40			8806 Dec 21 01:33	0° ≈	
inferior conj	8806 Feb 03 01:13	16° ≈ 38′29	0°24'17	evening max el	8806 Dec 23 03:26	2° ≈ 05'17	26°53'07
minimum elong	8806 Feb 03 00:36	16° ≈ 40′26	0°24'12	retrograde	8807 Jan 05 08:12	9° ≈ 24'27	
morning rise	8806 Feb 08 19:06	10° ≈ 49′23		evening set	8807 Jan 11 22:15	6° ≈ 49'23	
direct	8806 Feb 12 00:09	9° ≈ 50'32		min. Earth dist.	8807 Jan 15 22:33	2° ≈ 51'37	0.65788 AU
morning max el	8806 Feb 18 18:01	13° ≈ 30'55	18°49'17	inferior conj	8807 Jan 17 22:33	0° ≈ 32'47	
	8806 Mar 03 00:58	0° ∀		minimum elong	8807 Jan 17 23:34	0° ≈ 29'52	0°34'47
desc. node	8806 Mar 08 07:16	8° ∺ 06'58			8807 Jan 18 09:54	30°Ŗる	
morning set	8806 Mar 12 17:07	14°) 59'40		asc. node	8807 Jan 19 16:52	28° る 33'24	
	8806 Mar 22 07:40	0° Υ		morning rise	8807 Jan 24 01:58	24° ろ 55'07	
max. Earth dist.	8806 Mar 27 15:12	8°'Y'18'55	1.45382 AU	direct	8807 Jan 26 21:22	24°る11'54	
				morning max el	8807 Feb 02 08:06	27° る 37'54	18°11'50
superior conj	8806 Mar 29 03:39	10° ℃ 41'53			8807 Feb 04 11:57	0° ≈	
minimum elong	8806 Mar 28 19:47	10° Y 11′00	1°58'15	morning set	8807 Feb 21 05:54	25°≈25'44	
	8806 Apr 10 07:36	0° 8		desc. node	8807 Feb 23 04:12	28°≈32'43	
evening rise	8806 Apr 13 08:46	4° 8 54'26	0.0		8807 Feb 24 01:52	0°) €	
greatest brilliancy	8806 Apr 19 08:06	14° 8 33'11	-0.9m		000714 00 00 10	1001/2415	100/101
1	8806 Apr 29 10:06	0°П 1°П 40'07		superior conj	8807 Mar 08 09:12	19°) ₹34'15	
asc. node	8806 Apr 30 18:32	1° Π 48'07	1002/155	minimum elong	8807 Mar 07 23:57	18° ¥ 57'54	
evening max el	8806 May 04 01:17	5°∏36'05	18°36'55	max. Earth dist.	8807 Mar 10 10:59	22°) (49'32 0° °	1.45521 AU
retrograde evening set	8806 May 10 14:22 8806 May 13 19:26	9° Ⅱ 10'41 8° Ⅱ 12'17		evening rise	8807 Mar 15 01:10 8807 Mar 24 11:57	14° Υ 43'02	
Č	-	2° П 36'54	2010/20	evening rise		0° 8	
inferior conj minimum elong	8806 May 19 11:42 8806 May 19 12:37	2° П 36'34'	3°18'29 3°18'14	greatest brilliancy	8807 Apr 03 08:36 8807 Apr 05 08:55	3° 8 03'58	-0.7m
min. Earth dist.	8806 May 21 12:03	2 П 3408 0° П 10'35	0.65198 AU	evening max el	8807 Apr 17 09:46	19° 8 13'18	19°18'56
min. Darm uist.	8806 May 21 12:03	0 Д1033 30°R ठ	0.03170 AU	asc. node	8807 Apr 17 15:37	19 8 13 18	17 10 30
morning rise	8806 May 25 05:02	26° 8 19'21		retrograde	8807 Apr 24 11:01	23° 8 12'28	
direct	8806 May 31 18:53	23° 8 33'32		evening set	8807 Apr 28 00:05	23 8 12 28 21° 8 59'09	
desc. node	8806 Jun 04 07:07	24° 8 14'01		inferior conj	8807 May 03 10:41	16° 8 08'17	3°21'37
aose. Houe	8806 Jun 12 16:26	0° Π		minimum elong	8807 May 03 10:41	16° 8 09'24	3°21'27
morning max el	8806 Jun 14 04:10	1° Ⅱ 27'23	27°05'37	min. Earth dist.	8807 May 04 19:45	10 8 09 24	0.66682 AU
morning max ci	8806 Jul 05 10:37	0°95	2, 0551	morning rise	8807 May 08 20:14	9° 8 49'43	0.00002 AU
morning set	8806 Jul 19 18:58	25° © 17'12		direct	8807 May 15 00:57	7° 8 06'01	
morning set	8806 Jul 22 04:44	0°Ω		desc. node	8807 May 22 04:07	9° 8 52'07	
max. Earth dist.	8806 Jul 24 04:55	4° Ω 02'01	1.33726 AU	morning max el	8807 May 27 14:23	14° 8 36'15	25°58'24
asc. node	8806 Jul 27 17:45	11°Ω20'08	1.55 / 20 AU	morning max ci	8807 Jun 09 03:54	0°Ⅱ	20 00 27
abe. Hode	5000 Jul 2/ 1/.TJ	11 062000			8807 Jun 28 05:52	0°©	
superior conj	8806 Jul 28 05:17	12° Ω 20'43	0°04'51	morning set	8807 Jul 02 16:42	8°900'32	
minimum elong	8806 Jul 28 05:02	12° Ω 19'26	0°04'37	max. Earth dist.	8807 Jul 06 12:30	15°9513'07	1.35399 AU
	2000000 20 00.02	-5 561720	,		00 12.30	150/	

superior conj	8807 Jul 11 23:58	26°©03'23	-0°25'51	superior conj	8808 Jun 24 07:40	9° © 10'54	-0°58'03
minimum elong	8807 Jul 12 01:29	26°©11'07	0°25'45	minimum elong	8808 Jun 24 11:18	9° © 28'31	0°57'38
	8807 Jul 13 22:20	$0 {\circ} \Omega$		asc. node	8808 Jun 30 11:45	21° © 22'13	
asc. node	8807 Jul 14 14:45	1° Ω 24'24		evening rise	8808 Jul 02 21:53	26° © 12'42	
evening rise	8807 Jul 19 19:39	12° Ω 10′12			8808 Jul 04 19:46	0 $^{\circ}\Omega$	
	8807 Jul 29 03:27	O° Mp		evening max el	8808 Jul 19 15:36	23° Ω 31'24	19°17'19
evening max el	8807 Aug 07 00:27	12° Mp 00'57	20°22'05	retrograde	8808 Jul 28 21:35	28° Ω 06'06	
retrograde	8807 Aug 17 22:51	17° m/25'37		evening set	8808 Jul 30 18:18	27° Ω 55'44	
desc. node	8807 Aug 18 03:09	17° m/25'32		desc. node	8808 Aug 04 00:17	26° Ω 23'45	
evening set	8807 Aug 19 22:40	17° m 15'36		inferior conj	8808 Aug 08 08:00	23° Ω 46′25	-1°19'46
inferior conj	8807 Aug 29 02:04	13° m) 17'59	-3°15'46	minimum elong	8808 Aug 08 04:27	23° Ω 52'17	1°18'32
minimum elong	8807 Aug 28 17:28	13° m 30'31		min. Earth dist.	8808 Aug 11 00:07	22°Ω00'48	0.55895 AU
min. Earth dist.	8807 Aug 30 11:12	12° m 29'37	0.54856 AU	morning rise	8808 Aug 16 11:48	19° Ω 06'32	0.55075710
morning rise	8807 Sep 06 11:34	9° m/ 12'03	0.54650 AC	direct	8808 Aug 21 13:12	18° Ω 08'02	
direct	-				-	25°Ω16'51	25°24'58
	8807 Sep 10 17:31	8° Mp 33'16	22041120	morning max el	8808 Sep 04 16:02		23 24 36
morning max el	8807 Sep 24 03:34	15° Mp 04'04	23°41'39	,	8808 Sep 09 02:00	0° Mp	
_	8807 Oct 05 20:14	0∘ ত		asc. node	8808 Sep 26 11:28	27° m 29'50	
asc. node	8807 Oct 10 14:30	8° ≏ 12'15			8808 Sep 27 17:44	0∘ ⊽	
morning set	8807 Oct 18 03:24	23° ≏ 16'19		morning set	8808 Oct 01 14:56	8° ഫ 03'19	
	8807 Oct 21 06:26	0°M₊					
				superior conj	8808 Oct 08 11:32	23° ♀ 02'54	1°34'54
superior conj	8807 Oct 25 01:32	8°M14'53	1°40'28	minimum elong	8808 Oct 08 10:03	22° ≏ 54'48	1°34'53
minimum elong	8807 Oct 25 01:02	8°M12'09	1°40'36	max. Earth dist.	8808 Oct 09 19:06	25° ≏ 56'23	1.32184 AU
max. Earth dist.	8807 Oct 27 14:21	13°M41'09	1.33159 AU		8808 Oct 11 15:50	0° M	
evening rise	8807 Nov 01 15:13	24°MJ06'12		evening rise	8808 Oct 15 14:02	8° M 19'16	
Z .	8807 Nov 04 15:20	0° ∡ ¹		Ü	8808 Oct 27 01:11	0° ∡ ¹	
desc. node	8807 Nov 14 01:45	16° х 48'35		desc. node	8808 Oct 30 22:51	6° х 24′26	
dese. Hode	8807 Nov 22 17:13	0°ਰ		evening max el	8808 Nov 17 01:43	28° × 22'16	27°26'32
evening max el	8807 Dec 05 16:01	0 0 15° る 28'57	27°24'26	evening max er	8808 Nov 18 21:05	0°る	27 2032
•			27 24 20			5° る 38'17	
retrograde	8807 Dec 19 06:02	22° 3 48'52		retrograde	8808 Nov 30 21:03		
evening set	8807 Dec 26 04:44	20°₹14'58	0.64000.477	evening set	8808 Dec 07 23:10	3°る14'32	0.62222.434
min. Earth dist.	8807 Dec 30 00:01	16° ප් 50'04		min. Earth dist.	8808 Dec 11 15:34	0°る17'40	0.62333 AU
inferior conj	8808 Jan 01 11:35	14° る 13'40			8808 Dec 11 23:20	30°₽.∡7	
minimum elong	8808 Jan 01 14:45	14° る 05'19	1°40'18	inferior conj	8808 Dec 14 13:25	27° ∡ ³34′05	-2°52'33
asc. node	8808 Jan 06 13:57	9° る 38'43		minimum elong	8808 Dec 14 18:58	27° ∡ ¹21'05	2°50'16
morning rise	8808 Jan 08 02:28	8°る50'25		morning rise	8808 Dec 21 16:59	22° ∡ 28'30	
direct	8808 Jan 10 14:11	8° る 19'07		asc. node	8808 Dec 23 11:01	22° х 06′39	
morning max el	8808 Jan 17 01:13	11° る 41'09	17°51'29	direct	8808 Dec 23 23:25	22° ∡ ¹05'26	
	8808 Jan 29 16:09	0° ≈		morning max el	8808 Dec 30 18:17	25° ∡ ³32'54	17°48'46
morning set	8808 Feb 02 23:14	7°≈15'35		_	8809 Jan 03 11:58	0°రె	
desc. node	8808 Feb 10 01:08	19° ≈ 08'32		morning set	8809 Jan 15 15:17	20° る 10'28	
				. 8	8809 Jan 21 04:41	0° ≈	
superior conj	8808 Feb 16 04:06	29° ≈ 09'29	-0°43'40		0000 3411 21 01.11	0.0	
minimum elong	8808 Feb 15 23:11	28°≈49'38		superior conj	8809 Jan 26 23:17	9° ≈ 55'50	-0°00'23
minimum ciong	8808 Feb 16 16:38	20 ≈ 4938	0 42 31	minimum elong	8809 Jan 26 23:16	9°≈55'47	
F 41 F 4			1 44015 ATT	•		9°≈18'27	0 00 11
max. Earth dist.	8808 Feb 21 06:35	7° H 18'42	1.44915 AU	behind sun begin	8809 Jan 26 14:26		
evening rise	8808 Mar 03 00:58	24°) €04'06		behind sun end	8809 Jan 27 08:06	10°≈33'02	
	8808 Mar 06 22:09	0° Υ		desc. node	8809 Jan 26 22:03	9°≈50'36	
	8808 Mar 27 22:41	0° 8		max. Earth dist.	8809 Feb 02 22:55	21° ≈ 28′09	1.43639 AU
evening max el	8808 Mar 30 13:01	2° 8 52'18	20°16'17		8809 Feb 08 07:28	0° ∀	
asc. node	8808 Apr 03 12:44	6° 8 11'12		evening rise	8809 Feb 10 14:27	3° ∺ 34'36	
retrograde	8808 Apr 07 09:33	7° 8 26'11			8809 Feb 28 08:52	0 ° Υ	
evening set	8808 Apr 11 07:26	5° 8 57'39		evening max el	8809 Mar 13 10:44	16° Ƴ 32'46	21°26'03
inferior conj	8808 Apr 16 15:11	29° Ƴ 53'04	3°11'54	asc. node	8809 Mar 21 09:52	21° Y 43'14	
minimum elong	8808 Apr 16 13:50	29° Ƴ 57'40	3°11'37	retrograde	8809 Mar 22 07:52	21° Y 47'29	
-	8808 Apr 16 13:09	30° ₹ Υ		evening set	8809 Mar 26 15:40	20° Y ′03'49	
min. Earth dist.	8808 Apr 17 09:55	28° Ƴ 49'16	0.67723 AU	inferior conj	8809 Mar 31 22:52	13° Ƴ 47'58	2°51'24
morning rise	8808 Apr 21 20:01	23° Υ 36'10		minimum elong	8809 Mar 31 20:53	13° Y '54'55	2°50'56
direct	8808 Apr 27 12:31	21° Υ '04'04		min. Earth dist.	8809 Apr 01 04:29	13° Υ 28'25	0.68317 AU
desc. node	8808 May 08 01:05	21 γ 04 04 27° γ 00'07		morning rise	8809 Apr 06 01:54	7° Υ 34'25	0.0031/AU
	•		24024147	•			
morning max el	8808 May 08 23:47	27° Y 56′16	24°34'47	direct	8809 Apr 11 04:47	5°Υ20'23	2200 417 6
	8808 May 10 22:39	8°0		morning max el	8809 Apr 21 09:36	11° Υ 23'40	23°04'56
	8808 Jun 01 20:41	$\Pi^{\circ 0}$		desc. node	8809 Apr 24 22:01	15° Y 13'42	
morning set	8808 Jun 13 20:19	19° Ⅱ 50′21			8809 May 06 04:49	0°8	
max. Earth dist.	8808 Jun 17 11:23	26° Ⅱ 19′03	1.37457 AU		8809 May 25 16:23	Π °0	
	8808 Jun 19 11:30	0ංම		morning set	8809 May 26 00:26	0°Ⅱ33'27	
				max. Earth dist.	8809 May 30 07:31	7° Ⅱ 50′19	1.39712 AU

superior conj	8809 Jun 07 00:30	21° Ⅲ 34'35	-1°29'10		8810 May 18 03:20	0° II	
minimum elong	8809 Jun 07 06:00	21° Ⅱ 59'51	1°28'40				
	8809 Jun 11 12:40	0ංම		superior conj	8810 May 19 21:54	3° Ⅱ 04'13	-1°55'12
evening rise	8809 Jun 16 15:41	9° 5 348'04		minimum elong	8810 May 20 03:41	3° Ⅱ 29′24	1°54'56
asc. node	8809 Jun 17 08:46	11° © 09'49		evening rise	8810 May 30 21:14	22° ∏ 46′55	
	8809 Jun 28 02:08	$0^{\circ}\Omega$			8810 Jun 03 20:20	0 \circ	
evening max el	8809 Jul 02 17:51	5° Ω 44'31	18°33'29	asc. node	8810 Jun 04 05:48	0° 5 42'36	
retrograde	8809 Jul 10 14:07	9° Ω 38'59		evening max el	8810 Jun 16 03:24	18° © 31'55	18°09'59
evening set	8809 Jul 12 16:15	9° Ω 23'15		retrograde	8810 Jun 23 01:09	22° © 01'32	
inferior conj	8809 Jul 20 10:30	4° Ω 55'15		evening set	8810 Jun 25 10:58	21° © 36'34	
minimum elong	8809 Jul 20 11:27	4° Ω 53'24	0°25'33	inferior conj	8810 Jul 02 10:27	16° © 48'01	1°46'22
desc. node	8809 Jul 21 21:22	3° Ω 47'26		minimum elong	8810 Jul 02 13:18	16° © 41'34	1°45'16
min. Earth dist.	8809 Jul 23 18:04	2° Ω 22'30	0.57668 AU	min. Earth dist.	8810 Jul 05 18:38	13° © 48'39	0.59846 AU
	8809 Jul 27 10:10	30° ₹ 5		desc. node	8810 Jul 08 18:25	11° © 30'48	
morning rise	8809 Jul 28 03:07	29°538'20		morning rise	8810 Jul 09 12:42	11°901'47	
direct	8809 Aug 02 23:47	28°911'20		direct	8810 Jul 15 23:39	9°503'35	27041121
	8809 Aug 09 17:02	0° Ω	26040110	morning max el	8810 Jul 30 07:55	16°957'01	27°41'31
morning max el	8809 Aug 17 08:39	5° Ω 47'50	26°49'19		8810 Aug 10 02:40	0° N	
aga mada	8809 Sep 04 05:12	0° Mp 17° Mp 07′38		marning sat	8810 Aug 27 18:53	0° Т р 7° Тр 08'51	
asc. node morning set	8809 Sep 13 08:24 8809 Sep 16 00:43	22° Mp 42'20		morning set asc. node	8810 Aug 31 07:03 8810 Aug 31 05:19	6° Mp 59'48	
morning set	8809 Sep 19 09:43	22 ال با 42 20 0° Ω		max. Earth dist.	8810 Sep 06 13:54	20° Mp 43'45	1.31636 AU
	8809 Sep 19 09.43	0 ==		max. Earth dist.	8810 Sep 00 13.34	20 11/43 43	1.51030 AU
superior conj	8809 Sep 22 23:10	7° £ 52'40	1°23'48	superior conj	8810 Sep 07 10:41	22° m 38'45	1°07'34
minimum elong	8809 Sep 22 21:06	7° ≏ 41'09	1°23'34	minimum elong	8810 Sep 07 08:26	22°M 26'20	1°07'09
max. Earth dist.	8809 Sep 23 04:06	8° ഫ 20'02	1.31675 AU		8810 Sep 10 18:21	0∘ ⊽	
evening rise	8809 Sep 29 19:11	22° ≏ 48'10		evening rise	8810 Sep 14 04:26	7° £ 26'41	
	8809 Oct 03 06:53	0°M₊			8810 Sep 25 19:38	0° M	
desc. node	8809 Oct 17 19:58	25°M22'26		desc. node	8810 Oct 04 17:05	13°M27'42	
	8809 Oct 21 02:40	0°⊀		evening max el	8810 Oct 12 02:52	21°M53'18	25°50'55
evening max el	8809 Oct 30 06:03	10° ∡ ³32'51	26°55'16	retrograde	8810 Oct 26 01:01	28°M56'03	
retrograde	8809 Nov 13 04:02	17° ∡ ¹42'36		evening set	8810 Nov 01 07:04	27°M24'08	
evening set	8809 Nov 20 01:33	15° ∡ ³39'50		min. Earth dist.	8810 Nov 05 15:32	24°M48'25	0.58196 AU
min. Earth dist.	8809 Nov 23 20:30	13° ∡ 01'08	0.60269 AU	inferior conj	8810 Nov 08 17:43	22°M35'58	
inferior conj	8809 Nov 27 00:36	10° ≯ 24'40		minimum elong	8810 Nov 09 00:27	22°M23'53	5°00'53
minimum elong	8809 Nov 27 07:54	10° ∡ ′09'38	4°00'14	morning rise	8810 Nov 16 20:09	18°M13'17	
morning rise	8809 Dec 04 16:43	5° ₹ 39'32		direct	8810 Nov 19 03:15	17°M56'26	
direct	8809 Dec 06 21:08	5° ₹ 21'14		asc. node	8810 Nov 27 05:03	21°M40'27	
asc. node	8809 Dec 10 08:03	6° ₹ 09'15		morning max el	8810 Nov 27 14:04	22°M01'44	18°41'28
morning max el	8809 Dec 14 07:47	9° ₹ 03'08	18°04'51		8810 Dec 03 20:01	0° ⊀ 7	
	8809 Dec 27 22:01	0°る		morning set	8810 Dec 13 19:23	18° ₹ 01'54	
morning set	8809 Dec 29 23:39	3° る 50'38			8810 Dec 19 23:23	0°8	
superior conj	8810 Jan 08 19:15	21° る 52'16	0°36'50	superior conj	8810 Dec 22 11:51	4° る 47'04	1°05'25
minimum elong	8810 Jan 08 21:58	22° る 04'21	0°36'39	minimum elong	8810 Dec 22 15:11	5° る 02'43	1°05'12
C	8810 Jan 13 10:50	0° ≈		max. Earth dist.	8810 Dec 29 17:45	17° る 57'28	1.39746 AU
desc. node	8810 Jan 13 19:00	0° ≈ 34'59		desc. node	8810 Dec 31 15:59	21° る 18'17	
max. Earth dist.	8810 Jan 16 10:24	5° ≈ 03'09	1.41847 AU	evening rise	8811 Jan 02 19:01	24° る 55'30	
evening rise	8810 Jan 21 18:08	13° ≈ 46′32			8811 Jan 05 20:24	0° ≈	
	8810 Feb 01 05:52	0° ∀			8811 Jan 26 00:05	0° ∀	
	8810 Feb 23 21:51	0 ° $\mathbf{\Upsilon}$		evening max el	8811 Feb 06 18:05	14°) €00'51	24°04'11
evening max el	8810 Feb 24 03:48	0° Y 15'03	22°43'58	retrograde	8811 Feb 17 21:06	20°) 32′56	
retrograde	8810 Mar 06 04:10	6° Ƴ 11'06		evening set	8811 Feb 23 04:14	18° ∺ 20′25	
asc. node	8810 Mar 08 06:59	5° Ƴ 48'44		asc. node	8811 Feb 23 04:06	18°) € 20'44	
evening set	8810 Mar 10 23:06	4° Υ 12'35		min. Earth dist.	8811 Feb 27 21:30	12° 米 53′51	0.68223 AU
	8810 Mar 14 17:21	30° ₹ ₩		inferior conj	8811 Feb 28 15:43	11° 米 52′10	1°42'29
inferior conj	8810 Mar 16 07:40	27°) 48′38		minimum elong	8811 Feb 28 13:42	11° ¥ 59′03	1°41'53
minimum elong	8810 Mar 16 05:26			morning rise	8811 Mar 05 23:11	5°) 49′50	
min. Earth dist.	8810 Mar 16 01:07	28°) 11′24	0.68476 AU	direct	8811 Mar 09 22:54	4°) 19′29	
morning rise	8810 Mar 21 11:37	21°) ₹39'56		morning max el	8811 Mar 17 19:05	8°) (45'59	20°21'15
direct	8810 Mar 26 00:39	19°) 47′21		desc. node	8811 Mar 29 15:48	23°) (48'42	
morning max el	8810 Apr 03 22:56	24°) 59'01	21°38'08		8811 Apr 02 22:06	0° Υ	
	8810 Apr 08 10:39	0° Υ		morning set	8811 Apr 15 03:37	18° Ƴ 30′01	
desc. node	8810 Apr 11 18:54	4° Υ 14'07		5 4 2	8811 Apr 22 11:39	0° 8	1 42=14 : *-
•	8810 Apr 29 15:22	0° 8		max. Earth dist.	8811 Apr 24 15:38	3° ठ 27'40	1.43714 AU
morning set	8810 May 06 01:14	10°801'00	1 41000 433		0011 4 20 10 20	120 - 20122	2010122
max. Earth dist.	8810 May 12 07:46	20° 8 11'28	1.41888 AU	superior conj	8811 Apr 30 19:36	13° 8 30'23	-2~10'33

minimum elong	8811 Apr 30 22:13	13° 8 41'12	2°10'38		8812 Mar 26 01:52	$_0\circ\mathbf{\Upsilon}$	
	8811 May 10 13:17	$\Pi^{\circ}0$		max. Earth dist.	8812 Apr 06 06:18	17° Y 27'06	1.44971 AU
evening rise	8811 May 13 09:56	4° ∏ 58'12				0 0	
asc. node	8811 May 22 02:51	19° ∏ 54'18		superior conj	8812 Apr 09 17:17	22°Y55'34	
evening max el	8811 May 29 02:26 8811 May 30 16:25	0°9 1°942'43	18°05'51	minimum elong	8812 Apr 09 13:05 8812 Apr 14 03:19	22° Y 38'52 0° と	2°08'51
retrograde	8811 Jun 06 03:04	5°903'19	18 03 31	evening rise	8812 Apr 24 01:20	16° 8 13'36	
evening set	8811 Jun 08 20:28	4°526'30		evening rise	8812 May 02 09:39	0° I	
<i>8</i>	8811 Jun 14 12:22	30°R∏		asc. node	8812 May 07 23:56	8° Ⅲ 38′04	
inferior conj	8811 Jun 15 04:40	29° Ⅱ 18'14	2°39'34	evening max el	8812 May 13 05:39	15° Ⅱ 08'44	18°20'20
minimum elong	8811 Jun 15 07:25	29° Ⅱ 11′09	2°38'43	retrograde	8812 May 19 15:20	18° Ⅲ 34'41	
min. Earth dist.	8811 Jun 18 03:36	26° Ⅱ 16'16	0.62096 AU	evening set	8812 May 22 16:03	17° Ⅱ 44'27	
morning rise	8811 Jun 21 16:25	23° Ⅱ 13'06		inferior conj	8812 May 28 13:02	12° Ⅱ 18'18	3°09'42
desc. node	8811 Jun 25 15:28	21° I I12'33		minimum elong	8812 May 28 14:42	12° Ⅱ 13'29	3°09'16
direct morning max el	8811 Jun 28 09:59 8811 Jul 12 13:23	20° Ⅱ 48'28 28° Ⅱ 49'59	27055145	min. Earth dist. morning rise	8812 May 30 22:01 8812 Jun 03 12:15	9°П34'33 6°П03'08	0.64159 AU
morning max er	8811 Jul 13 16:43	20 П 49 39	27 33 43	direct	8812 Jun 10 05:04	3° I I21'54	
	8811 Aug 04 00:10	0°Ω		desc. node	8812 Jun 11 12:29	3° I I27'29	
morning set	8811 Aug 15 07:55	21°Ω16'24		morning max el	8812 Jun 23 22:55	11° II 22'17	27°33'06
asc. node	8811 Aug 18 02:15	27° Ω 00'40			8812 Jul 08 16:44	0°ಅ	
	8811 Aug 19 12:01	0° m			8812 Jul 26 11:20	$0^{\circ}\Omega$	
max. Earth dist.	8811 Aug 20 20:43	2° Mp 56'02	1.32071 AU	morning set	8812 Jul 29 00:54	4° Ω 58'42	
				max. Earth dist.	8812 Aug 02 20:39	14° Ω 46'46	1.32987 AU
superior conj	8811 Aug 22 20:12	7° m 14'37		asc. node	8812 Aug 03 23:14	17° Ω 06'07	
minimum elong	8811 Aug 22 18:18	7° Mp 04'11	0°46'03		0010 1 06 01 50	210 025100	0001100
evening rise	8811 Aug 29 15:44	22° Mp 07'52 0° <u>₽</u>		superior conj	8812 Aug 06 01:50	21° Ω 35'00 21° Ω 29'33	0°21'09 0°20'47
	8811 Sep 02 10:03 8811 Sep 21 07:16	0° IL		minimum elong	8812 Aug 06 00:49 8812 Aug 09 23:31	0° m	0-2047
desc. node	8811 Sep 21 14:12	0°M18'56		evening rise	8812 Aug 13 03:13	6° Mp 46'19	
evening max el	8811 Sep 23 16:10		24°21'14	evening rise	8812 Aug 25 08:53	0∘ ⊽	
retrograde	8811 Oct 07 10:02	9°M20'16		evening max el	8812 Sep 04 03:34	12° ≏ 37'27	22°41'34
evening set	8811 Oct 12 11:55	8°M23'18		desc. node	8812 Sep 07 11:20	15° ≏ 29'11	
min. Earth dist.	8811 Oct 18 03:01	5°M32'05	0.56369 AU	retrograde	8812 Sep 17 07:01	19° ≙ 11'00	
inferior conj	8811 Oct 20 14:25	3°M59'25		evening set	8812 Sep 20 20:36	18° ≏ 43'04	
minimum elong	8811 Oct 20 16:25	3°M56'18	5°35'31	min. Earth dist.	8812 Sep 28 11:13	15° £ 18'56	0.55099 AU
morning rise	8811 Oct 28 23:01	29° £ 58'22		inferior conj	8812 Sep 29 16:39	14° Ω 37'00	
direct	8811 Oct 28 20:13 8811 Oct 31 14:18	30°R ≏ 29° ≏ 39'52		minimum elong morning rise	8812 Sep 29 10:58 8812 Oct 08 03:16	14° ♀ 45'07 10° ♀ 48'49	5°22′31
direct	8811 Nov 03 06:23	29 = 3932 0° ™		direct	8812 Oct 11 07:06	10 = 4849 10° £ 25'55	
morning max el	8811 Nov 10 09:30	4°M17'57	19°40'22	morning max el	8812 Oct 22 15:59	15° ⊆ 45'47	21°01'29
asc. node	8811 Nov 14 02:01	8°M25'25		asc. node	8812 Oct 30 22:59	26° ഫ 09'09	
	8811 Nov 26 16:15	0°⊀			8812 Nov 02 07:34	0°M₊	
morning set	8811 Nov 27 22:44	2° ∡ ³32'57		morning set	8812 Nov 11 06:54	17° M 15'51	
		_			8812 Nov 17 09:13	0°⊀	
superior conj	8811 Dec 05 20:01	18° ₹ 25'51			001231 10 15 22	20 72 (10 4	1027141
minimum elong	8811 Dec 05 22:41 8811 Dec 11 20:43	18° メ 39'03	1°25'05	superior conj minimum elong	8812 Nov 18 15:23 8812 Nov 18 16:51	2° 🗷 36'04 2° 🗷 43'39	1°36'41 1°36'48
max. Earth dist.	8811 Dec 11 20:43	0°る14'18	1.37570 AU	max. Earth dist.	8812 Nov 18 10:31 8812 Nov 23 09:01	12° ₹ 108'58	1.35566 AU
evening rise	8811 Dec 15 17:14	7° る 00'20	1.57576710	evening rise	8812 Nov 27 09:48	19° 🖈 53'26	1.55500710
desc. node	8811 Dec 18 13:01	11° る 56'35		Ü	8812 Dec 03 00:17	0°ರ	
	8811 Dec 29 17:38	0° ≈		desc. node	8812 Dec 04 10:04	2° る 25'21	
evening max el	8812 Jan 20 07:19	27° ≈ 49'01	25°20'01		8812 Dec 22 18:23	0° ≈	
	8812 Jan 22 16:01	0° ∀		evening max el	8813 Jan 01 20:27	11° ≈ 34'17	26°24'19
retrograde	8812 Feb 01 09:46	4°) (48'15		retrograde	8813 Jan 14 17:23	18°≈50'00	
evening set	8812 Feb 07 05:33	2°) (23'39		evening set	8813 Jan 21 01:16	16°≈16'57	0.66526 ATT
asc. node	8812 Feb 09 14:59 8812 Feb 10 01:10	30°R≈ 29°≈30'24		min. Earth dist. inferior conj	8813 Jan 25 04:44 8813 Jan 26 22:09	11°≈59'51 9°≈54'22	0.66536 AU -0°00'06
min. Earth dist.	8812 Feb 11 15:26	27°≈31'55	0.67571 AU	minimum elong	8813 Jan 26 22:08	9°≈54'23	0°00'04
inferior conj	8812 Feb 12 21:13	27 ≈5133 25°≈55'36	0°55'14	transit middle	8813 Jan 26 22:08	9°≈54'23	0°00'04
minimum elong	8812 Feb 12 19:55	25°≈59'49	0°54'52	transit begin	8813 Jan 26 19:15	10° ≈ 03'09	
morning rise	8812 Feb 18 10:38	20° ≈ 01'20		transit end	8813 Jan 27 01:02	9° ≈ 45'37	
direct	8812 Feb 21 22:07	18° ≈ 51'48		asc. node	8813 Jan 26 22:16	9° ≈ 53'58	
morning max el	8812 Feb 28 23:19	22° ≈ 45'10	19°18'24	morning rise	8813 Feb 01 19:51	4° ≈ 10′09	
	8812 Mar 06 00:49	0°) (₹₹12.6	0.5	direct	8813 Feb 04 20:32	3°≈18'30	1000110
greatest brilliancy	8812 Mar 12 22:48	9° X 55'36	-0.7m	morning max el	8813 Feb 11 10:30		18°31'25
desc. node	8812 Mar 15 12:43	13°) 48'32 27°) 00'22		desc nodo	8813 Feb 27 19:20	0° 光 4° 光 06'15	
morning set	8812 Mar 24 03:23	21 T UU 22		desc. node	8813 Mar 02 09:38	4 AU013	

morning set	8813 Mar 03 23:17 8813 Mar 18 20:34	6°) 35'14		direct morning max el	8814 Jan 19 16:06 8814 Jan 26 02:16	17° ට 34'33 20°ට58'01	18001'06
	8813 Wai 18 20.34	U I		morning max ci	8814 Feb 02 02:08	20 3 3801 0° ≈	10 01 00
superior conj	8813 Mar 19 23:42	1° Ƴ 46'10	-1°47'02	morning set	8814 Feb 13 00:40	17°≈38'28	
minimum elong	8813 Mar 19 14:20	1° Y 09'31	1°46'14	desc. node	8814 Feb 17 06:35	24°≈36'54	
max. Earth dist.	8813 Mar 20 00:40	1° Ƴ 49'57	1.45529 AU		8814 Feb 20 14:04	0°) €	
evening rise	8813 Apr 04 17:02	26° Ƴ 30'36					
	8813 Apr 06 21:48	0° 8		superior conj	8814 Feb 27 08:58	10°) 51′59	-1°09'02
greatest brilliancy	8813 Apr 13 16:33	10° 8 43'22	-0.8m	minimum elong	8814 Feb 27 01:09	10° ∺ 21′00	1°07'58
asc. node	8813 Apr 24 21:02	26° 8 44'26		max. Earth dist.	8814 Mar 02 20:07		1.45347 AU
evening max el	8813 Apr 26 16:24	28° 8 42'54	18°52'41		8814 Mar 11 14:39	$0^{\circ}\mathbf{\Upsilon}$	
	8813 Apr 28 01:28	$\Pi^{\circ 0}$		evening rise	8814 Mar 15 12:39	6° Y 03′12	
retrograde	8813 May 03 09:53	2° Ⅱ 26'58		greatest brilliancy	8814 Mar 29 06:00	26° Y 57′04	-0.7m
evening set	8813 May 06 18:10	1° II 22'25			8814 Mar 31 07:57	0° 8	10041124
: <i>c</i> :	8813 May 08 11:59	30°R 8	2021122	evening max el	8814 Apr 09 22:47	12° 8 21'18 14° 8 02'06	19°41'34
inferior conj minimum elong	8813 May 12 07:39 8813 May 12 08:01	25° 8 40'05 25° 8 38'58	3°21'33 3°21'20	asc. node retrograde	8814 Apr 11 18:08 8814 Apr 17 07:36	14°802'06	
min. Earth dist.	8813 May 14 01:25	23° 8 29'13	0.65882 AU	evening set	8814 Apr 21 00:12	15° 8 14'47	
morning rise	8813 May 17 21:16	19° 8 21'21	0.03882 AU	inferior conj	8814 Apr 26 09:19	9° 8 18'00	3°18'53
direct	8813 May 24 07:36	16° 8 35'07		minimum elong	8814 Apr 26 08:30	9° 8 20'42	
desc. node	8813 May 29 09:29	17° 8 59'52		min. Earth dist.	8814 Apr 27 12:14	7° 8 48'25	0.67184 AU
morning max el	8813 Jun 06 09:34	24° 8 21'30	26°39'35	morning rise	8814 May 01 16:29	2° 8 59'41	
C	8813 Jun 11 11:19	$\Pi^{\circ}0$		direct	8814 May 07 16:18	0° 8 19'36	
	8813 Jul 02 02:48	0ංම		desc. node	8814 May 16 06:28	4° 8 19'32	
morning set	8813 Jul 12 06:50	18° © 06'55		morning max el	8814 May 19 19:21	7° 8 35'52	25°24'03
max. Earth dist.	8813 Jul 16 10:21	26° © 09'52	1.34383 AU		8814 Jun 06 06:36	Π °0	
	8813 Jul 18 08:14	$0^{\circ}\Omega$		morning set	8814 Jun 24 21:32	0° 5 29'33	
					8814 Jun 24 14:59	0ං ව	
superior conj	8813 Jul 21 01:17	5° Ω 33'27		max. Earth dist.	8814 Jun 28 13:19	7°©13'47	1.36235 AU
minimum elong	8813 Jul 21 01:43	5° Ω 35'45	0°08'00		0014 7 1 04 15 45	100500101	0020120
behind sun begin	8813 Jul 20 20:39	5° Ω 09'30 6° Ω 02'03		superior conj	8814 Jul 04 15:45	19°502'31	
behind sun end asc. node	8813 Jul 21 06:47 8813 Jul 21 20:14	$7^{\circ}\Omega 11'57$		minimum elong asc. node	8814 Jul 04 18:09 8814 Jul 08 17:13	19°©14'28 27°©14'01	0°39'13
evening rise	8813 Jul 28 12:54	21°Ω16'07		asc. node	8814 Jul 10 01:45	27 3 1401 0°Ω	
evening rise	8813 Aug 01 19:46	0° mp		evening rise	8814 Jul 12 18:36	5° Ω 30'44	
evening max el	8813 Aug 16 22:21	23° mp 03'14	21°08'25	evening rise	8814 Jul 26 15:56	0° m)	
desc. node	8813 Aug 25 08:27	28° m) 27'16		evening max el	8814 Jul 30 06:04	4° m 08'35	19°52'00
retrograde	8813 Aug 28 19:53	28° m 57'04		retrograde	8814 Aug 09 10:55	9° m 10'57	
evening set	8813 Aug 31 04:06	28° m 44'14		evening set	8814 Aug 11 07:48	9° ™ 01'33	
inferior conj	8813 Sep 09 09:23	24° m 47'30	-4°15'09	desc. node	8814 Aug 12 05:34	8° m 50'31	
minimum elong	8813 Sep 08 23:44	25° m 01'07	4°12'32	inferior conj	8814 Aug 20 06:43	5° ™ 00'47	
min. Earth dist.	8813 Sep 09 19:59		0.54663 AU	minimum elong	8814 Aug 20 00:01	5° ™ 11'00	
morning rise	8813 Sep 17 19:51	20° m 53'38		min. Earth dist.	8814 Aug 22 06:58	3°Mp47'11	0.55192 AU
direct	8813 Sep 21 15:17	20° m/22'25	22040122	morning rise	8814 Aug 28 14:26	0° Mp 41'34	
morning max el	8813 Oct 04 10:46	26° Mp 28'54	22°40'33	r.	8814 Aug 31 17:46	30°R€	
asc. node	8813 Oct 07 19:36 8813 Oct 17 19:59	0° ჲ 14° ჲ 38'17		direct	8814 Sep 02 04:39 8814 Sep 03 15:25	29° Ω 55'15 0° m	
asc. Houe	8813 Oct 17 19.39 8813 Oct 25 18:02	0°M		morning max el	8814 Sep 15 23:14	6° Mp 43'58	24°26'48
morning set	8813 Oct 26 17:48	2°ML04'51		morning max or	8814 Oct 02 17:16	0∘ ಹ	21 20 10
				asc. node	8814 Oct 04 16:57	3° £ 40'52	
superior conj	8813 Nov 02 18:32	17° M 07'54	1°40'58	morning set	8814 Oct 11 05:34	16° ≙ 53'47	
minimum elong	8813 Nov 02 18:42	17°ML08'50	1°41'09	-	8814 Oct 17 06:11	0°M	
max. Earth dist.	8813 Nov 06 01:33	24°M03'40	1.33910 AU				
	8813 Nov 08 23:25	0° ∡ ¹		superior conj	8814 Oct 18 02:38	1°M51'51	1°38'49
evening rise	8813 Nov 10 16:56	3° ∡ 25'41		minimum elong	8814 Oct 18 01:41	1°M46'39	1°38'53
desc. node	8813 Nov 21 07:08	22° х 39'34		max. Earth dist.	8814 Oct 20 02:23	6°M11'07	1.32687 AU
	8813 Nov 25 20:09	0° ろ		evening rise	8814 Oct 25 10:56	17°M26'24	
evening max el	8813 Dec 15 09:34	25° る 09'21	27°09'43		8814 Oct 31 22:26	0° ∡ 7	
, 1	8813 Dec 21 10:05	0°≈		desc. node	8814 Nov 08 04:12	12° ₹ 31'42	
retrograde	8813 Dec 28 19:14	2°≈30'42		avanina ma1	8814 Nov 20 07:37	0°る ∾る>>'05	27020120
avaning set	8814 Jan 04 10:43 8814 Jan 04 13:19	30°Rる 29°る55'01		evening max el	8814 Nov 27 21:20	8°る22'05 15°る40'47	21 29 20
evening set min. Earth dist.	8814 Jan 04 13:19 8814 Jan 08 11:13		0.65147 AU	retrograde evening set	8814 Dec 11 14:20 8814 Dec 18 15:02	13°る40'47	
inferior conj	8814 Jan 10 16:16	20 3 11 33 23° 3 43'53		min. Earth dist.	8814 Dec 22 08:49	9° る 57'49	0.63437 AU
minimum elong	8814 Jan 10 18:08	23° ප 38'40		inferior conj	8814 Dec 25 00:54	7°る17'01	
asc. node	8814 Jan 13 19:20	20° පි 28'26		minimum elong	8814 Dec 25 05:05	7° る 06'30	
morning rise	8814 Jan 17 00:22	18°る12'04		morning rise	8814 Dec 31 21:03	2° る 00'36	
Ü				Č			

asc. node	8814 Dec 31 16:25	2° る 05'09		asc. node	8815 Dec 18 13:28	15° ∡ 12'46	
direct	8815 Jan 03 06:08	2 30309 1° 3 33'16		morning max el	8815 Dec 18 13:28 8815 Dec 24 11:32	18° × 39'53	17052111
morning max el	8815 Jan 09 19:40	4° る 56'51	17°48'04	morning max er	8816 Jan 01 16:34	0° 공	1/ 3311
-	8815 Jan 26 04:27	4 03031 29° る 58'19	1 / 40 04	morning sat	8816 Jan 09 04:06	13° る 14'23	
morning set				morning set			
JJ.	8815 Jan 26 04:50	0°≈			8816 Jan 18 13:00	0° ≈	
desc. node	8815 Feb 04 03:31	15°≈15'41		aumorior coni	9916 Ion 10 10:22	290011142	0°16'25
superior aoni	8815 Feb 07 13:26	20°≈55'15	0024152	superior conj minimum elong	8816 Jan 19 19:23 8816 Jan 19 20:49	2°≈11'42 2°≈17'55	0°16'24
superior conj	8815 Feb 07 10:47	20 ≈3313 20°≈44'18		desc. node	8816 Jan 22 00:26	2 ≈1733 5°≈58'57	0 1024
minimum elong			0 24 19				1 42021 ATT
E 41 E 4	8815 Feb 13 03:56	0° ∺ 0° ∺ 41'49	1 44447 ATT	max. Earth dist.	8816 Jan 27 05:13	14°≈39'32	1.42931 AU
max. Earth dist.	8815 Feb 13 14:25		1.44447 AU	evening rise	8816 Feb 02 17:58	25°≈08'05	
evening rise	8815 Feb 22 23:51	15° ¥ 23′22			8816 Feb 05 20:58	0°) €	
	8815 Mar 04 15:39	0° Υ	20044145		8816 Feb 26 14:58	0° Υ	21050126
evening max el	8815 Mar 23 23:45	26° Y 01'33	20°44'45	evening max el	8816 Mar 05 19:20	9° Υ 42'33	21°58'36
	8815 Mar 29 00:31	0°8		retrograde	8816 Mar 15 03:39	15° Y 14'41	
asc. node	8815 Mar 29 15:13	0° 8 17'12		asc. node	8816 Mar 15 12:20	15° Y 14'02	
retrograde	8815 Apr 01 06:09	0° 8 51'55		evening set	8816 Mar 19 16:11	13° Y 24'25	
	8815 Apr 04 06:52	30° ŖƳ		inferior conj	8816 Mar 24 23:45	7° Y ′04'52	
evening set	8815 Apr 05 08:08	29° Y 17′00		minimum elong	8816 Mar 24 21:36	7° Y 12′21	2°39'14
inferior conj	8815 Apr 10 15:25	23° Y 07'35		min. Earth dist.	8816 Mar 25 00:03	7° Y 03'49	0.68435 AU
minimum elong	8815 Apr 10 13:45	23° Y 13′21	3°04'04	morning rise	8816 Mar 30 02:52	0° Y 53′29	
min. Earth dist.	8815 Apr 11 04:30	22° Y 22'32	0.68032 AU		8816 Mar 31 06:53	30°Ŗ ℋ	
morning rise	8815 Apr 15 19:09	16° Ƴ 52'04		direct	8816 Apr 03 23:52	28°) (48′25	
direct	8815 Apr 21 06:05	14° Ƴ 26'49			8816 Apr 08 01:18	0 ° Υ	
morning max el	8815 May 02 04:26	20° Ƴ 58'42	23°56'44	morning max el	8816 Apr 13 15:17	4° Y 28′54	22°27'19
desc. node	8815 May 03 03:26	21° Y 58'10		desc. node	8816 Apr 19 00:21	10° Ƴ 33'23	
	8815 May 09 22:45	0°8			8816 May 03 03:28	$8^{\circ 0}$	
	8815 May 30 12:09	$\Pi^{\circ}0$		morning set	8816 May 17 08:30	22° 8 04'15	
morning set	8815 Jun 06 15:52	11° Ⅱ 53'14			8816 May 22 03:07	Π $^{\circ}0$	
max. Earth dist.	8815 Jun 10 10:07	18° Ⅲ 27'13	1.38410 AU	max. Earth dist.	8816 May 22 07:56	0° Ⅲ 20′25	1.40665 AU
	8815 Jun 16 17:39	0° ©					
				superior conj	8816 May 30 02:53	13° ∏ 55'55	-1°41'07
superior conj	8815 Jun 17 17:45	1° © 53'47	-1°11'33	minimum elong	8816 May 30 08:48	14° Ⅱ 22'30	1°40'40
minimum elong	8815 Jun 17 22:15	2° © 15'10	1°11'05		8816 Jun 07 19:43	0°€	
asc. node	8815 Jun 25 14:13	17° © 08'35		evening rise	8816 Jun 09 06:48	2°5544'58	
evening rise	8815 Jun 26 17:42	19° 5 23'31		asc. node	8816 Jun 11 11:13	6°\$50'42	
	8815 Jul 02 06:36	$0^{\circ}\Omega$		evening max el	8816 Jun 25 08:16	28° © 27'54	18°20'59
evening max el	8815 Jul 13 02:30	15° Ω 59'07	18°56'06	•	8816 Jun 27 02:18	$0^{\circ}\Omega$	
retrograde	8815 Jul 21 16:35	20° Ω 14'35		retrograde	8816 Jul 02 17:32	2° Ω 10′07	
evening set	8815 Jul 23 15:15	20° £ 02′21		evening set	8816 Jul 04 22:53	1° Ω 50'49	
desc. node	8815 Jul 30 02:39	16° Ω 58'22		C	8816 Jul 08 17:42	30° ₹ 5	
inferior conj	8815 Jul 31 20:55	15° Ω 45'29	-0°32'19	inferior conj	8816 Jul 12 08:47	27° © 13'39	1°03'33
minimum elong	8815 Jul 31 19:33	15° Ω 47'53		minimum elong	8816 Jul 12 10:51	27° © 09'21	1°02'37
min. Earth dist.	8815 Aug 03 21:35	13° Ω 38'08	0.56585 AU	min. Earth dist.	8816 Jul 15 17:57	24°9527'01	0.58568 AU
morning rise	8815 Aug 08 20:37	10° Ω 49'54		desc. node	8816 Jul 15 23:45	24°915'44	
direct	8815 Aug 14 06:47	9°Ω40'03		morning rise	8816 Jul 19 19:30	21°5643'00	
morning max el	8815 Aug 28 12:44	17° Ω 01'05	26°04'01	direct	8816 Jul 25 22:52	20° © 03'01	
	8815 Sep 08 04:55	0°m)	20 0.01	morning max el	8816 Aug 09 08:14	27°547'15	27°15'59
asc. node	8815 Sep 21 13:55	23° Mp 08'16		morning max or	8816 Aug 11 11:50	0°Ω	27 1333
use. Houe	8815 Sep 24 22:03	0° ಹ			8816 Aug 31 20:32	0° m/y	
morning set	8815 Sep 25 16:34	0 — 1° Ω 38'07		asc. node	8816 Sep 07 10:50	12° m 53'03	
morning set	0013 Бер 23 10.54	1 = 30 07		morning set	8816 Sep 09 01:07	16° Mp 12'45	
superior conj	8815 Oct 02 13:33	16° ≏ 41'22	1°30'50	morning set	8816 Sep 15 09:06	10 பி 12 4 3	
minimum elong	8815 Oct 02 11:47	16° ⊆ 31'32	1°30'43		0010 БСР 13 07.00	o –	
max. Earth dist.	8815 Oct 03 09:31	18° ⊆ 31'48		superior conj	8816 Sep 16 01:21	1° ჲ 30'13	1°17'30
max. Larm dist.	8815 Oct 08 16:21	0° ™	1.51)20 AU	minimum elong	8816 Sep 15 23:09	1° ⊆ 17'59	
evening rise	8815 Oct 09 12:46	1° M .47'24		max. Earth dist.	8816 Sep 15 19:31		1.31607 AU
evening 1150	8815 Oct 09 12.46 8815 Oct 24 20:20	1 11164 / 24 0° √		evening rise	8816 Sep 22 19:56	16° £ 3743	1.51001 AU
desc. node	8815 Oct 24 20.20 8815 Oct 26 01:16	0 x . 1° x 752'50		Cvening 1150	8816 Sep 29 13:54	0°M	
		20° ₹ '52'50	27017124	desa nada	=	20°M30'43	
evening max el	8815 Nov 10 05:16		2/1/24	desc. node	8816 Oct 11 22:22		
retrograde	8815 Nov 24 01:42	28° √ 11'29		avani	8816 Oct 19 12:07	0°⊀ 2°.₹48!22	26021121
evening set	8815 Dec 01 03:04	25° ₹ 55'37	0.61474 411	evening max el	8816 Oct 22 06:31	2° × ⁷ 48'32	20-31-31
min. Earth dist.	8815 Dec 04 19:49	23° х 07'54		retrograde	8816 Nov 05 04:29	9° × 755'10	
inferior conj	8815 Dec 07 20:54	20° × 25'47		evening set	8816 Nov 11 21:12	8° ₹ 04'15	0.50270 411
minimum elong	8815 Dec 08 03:20	20° ₹ 11'27	3-2023	min. Earth dist.	8816 Nov 15 20:02	5° ₹ 29'18	0.59378 AU
morning rise	8815 Dec 15 05:53	15° ₹ 28'16		inferior conj	8816 Nov 19 00:47	3°×700'53	
direct	8815 Dec 17 11:07	15° ₹ 07'31		minimum elong	8816 Nov 19 08:15	2° ≯ 46'23	4~27'54

	8816 Nov 23 07:02	30°RM₊		direct	9917 Nov. 11 00:42	10°M22'49	
				direct	8817 Nov 11 00:43		10002140
morning rise	8816 Nov 26 21:43	28°M25'26		morning max el	8817 Nov 20 00:39	14°M40'55	19°03'49
direct	8816 Nov 29 02:47	28°M08'04		asc. node	8817 Nov 21 07:31	15°M59'50	
asc. node	8816 Dec 04 10:30	29°M54'54			8817 Nov 30 16:58	0°⊀	
	8816 Dec 04 13:30	0° ∡ 7		morning set	8817 Dec 06 17:13	11° ∡ ³30'37	
morning max el	8816 Dec 06 22:27	1° ∡ 758′21	18°17'53				
morning set	8816 Dec 22 17:51	27° ⋌ ¹09'44		superior conj	8817 Dec 15 00:41	27° ∡ 751'14	1°14'49
	8816 Dec 24 05:40	ರ°0		minimum elong	8817 Dec 15 03:50	28° ₰ 06'24	1°14'41
					8817 Dec 16 03:37	o°B	
superior conj	8817 Jan 01 00:49	14° る 35'30	0°50'04	max. Earth dist.	8817 Dec 21 20:56	10°る34'47	1.38807 AU
minimum elong	8817 Jan 01 04:00	14° ප 50'01	0°49'50	evening rise	8817 Dec 25 16:30	17°る17'20	
desc. node	8817 Jan 07 21:23	26° ♂ 43'36	0 1930	desc. node	8817 Dec 25 18:23	17° る 25'28	
max. Earth dist.	8817 Jan 08 15:03	20 3 4330	1.40972 AU	dese. Hode	8818 Jan 02 08:48	0°≈	
max. Earm dist.			1.409/2 AU				
	8817 Jan 09 19:34	0° ≈			8818 Jan 23 12:37	0° ∀	
evening rise	8817 Jan 13 06:17	5°≈43'38		evening max el	8818 Jan 30 00:20	7°) 12'41	24°37'24
	8817 Jan 29 01:24	0° ∀		retrograde	8818 Feb 10 14:09	13° ¥ 58′28	
evening max el	8817 Feb 16 10:51	23° ∺ 26′06	23°18'10	evening set	8818 Feb 16 02:34	11°) (40′28	
retrograde	8817 Feb 26 22:46	29°) 38'44		asc. node	8818 Feb 17 06:34	10° ¥ 34'56	
asc. node	8817 Mar 02 09:27	28°) (40′33		min. Earth dist.	8818 Feb 20 16:31	6°) €28'33	0.67988 AU
evening set	8817 Mar 03 22:51	27°) 33'49		inferior conj	8818 Feb 21 15:40	5° ¥ 11'25	1°23'29
inferior conj	8817 Mar 09 08:28	21° ¥ 07'21	2°05'56	minimum elong	8818 Feb 21 13:53	5°) 17′23	1°22'56
minimum elong	8817 Mar 09 06:15	21°) 14'58	2°05'18		8818 Feb 26 01:43	30°R≈	
min. Earth dist.	8817 Mar 08 20:48	21° X 47'30	0.68414 AU	morning rise	8818 Feb 27 01:21	29°≈12'09	
		15° H 01'21	0.06414 AU	=			
morning rise	8817 Mar 14 13:36			direct	8818 Mar 02 19:36	27°≈51'04	
direct	8817 Mar 18 20:48	13° 米 18′31			8818 Mar 07 23:37	0° ∀	
morning max el	8817 Mar 27 07:23	18° ₩ 09'55	21°04'01	morning max el	8818 Mar 10 06:59	2° 升 02′25	19°52'37
desc. node	8817 Apr 05 21:15	29°) 49′55		greatest brilliancy	8818 Mar 23 10:54	19° ₩ 09'36	-0.6m
	8817 Apr 06 00:12	0 ° $\mathbf{\Upsilon}$		desc. node	8818 Mar 23 18:10	19° ∺ 36'14	
	8817 Apr 26 06:18	9° 8			8818 Mar 30 17:07	0 ° Υ	
morning set	8817 Apr 26 22:23	1° 8 02'55		morning set	8818 Apr 05 20:28	9° Y 23'02	
max. Earth dist.	8817 May 04 11:25	13° 8 06'14	1.42718 AU	max. Earth dist.	8818 Apr 16 21:41	26° Ƴ 39'56	1.44321 AU
	001, 111 11 , 01 111 1				8818 Apr 18 23:48	0°8	
superior conj	8817 May 11 14:33	24° 8 58'57	-2°03'24		001011p1 10 25.10	ů O	
minimum elong	8817 May 11 19:30	25° 8 20'05		superior conj	8818 Apr 22 01:37	4° 8 57'39	2012/15
minimum ciong	•		2 03 17		•	_	
	8817 May 14 12:40	0°II		minimum elong	8818 Apr 22 01:37	4° 8 57'39	2°12.22
evening rise	8817 May 23 05:48	15° Ⅱ 25'13		evening rise	8818 May 05 09:53	27° 8 13'17	
asc. node	8817 May 29 08:15	26° Ⅱ 15′26			8818 May 07 00:58	Π °0	
	8817 May 31 13:06	0		asc. node	8818 May 16 05:19	15° Ⅱ 16′28	
evening max el	8817 Jun 08 19:40	11° 5 26'08	18°05'52	evening max el	8818 May 23 09:09	24° ∏ 44'35	18°09'52
retrograde	8817 Jun 15 11:35	14° © 50'27		retrograde	8818 May 29 18:20	28° Ⅱ 05'49	
evening set	8817 Jun 18 00:31	14° © 20'51		evening set	8818 Jun 01 14:47	27° Ⅲ 23'34	
inferior conj	8817 Jun 24 17:02	9° © 23'43	2°12'02	inferior conj	8818 Jun 07 17:46	22° Ⅱ 07'49	2°54'51
minimum elong	8817 Jun 24 20:01	9° © 16'33	2°10'59	minimum elong	8818 Jun 07 20:07	22° ∏ 01′26	2°54'11
min. Earth dist.	8817 Jun 27 22:08	6°920'12	0.60809 AU	min. Earth dist.	8818 Jun 10 11:15	19° Ⅱ 11'03	0.63004 AU
morning rise	8817 Jul 01 12:55	3°527'48	0.00009710	morning rise	8818 Jun 13 23:51	15° ∏ 57'27	0.03001710
desc. node	8817 Jul 02 20:48	2°540'41		desc. node	8818 Jun 19 17:51	13° Ⅱ 27′15	
direct	8817 Jul 08 03:28	1°917'24	25052116	direct	8818 Jun 20 18:01	13° Ⅱ 23'59	25050120
morning max el	8817 Jul 22 10:35	9° © 16'07	2/~52'16	morning max el	8818 Jul 04 18:02	21° Ⅱ 27'06	2/~50'20
	8817 Aug 07 09:59	0 \circ Ω			8818 Jul 12 04:22	0°€	
	8817 Aug 23 23:09	0° m			8818 Jul 31 12:58	0 ° Ω	
morning set	8817 Aug 24 05:26	0° Mg 32′25		morning set	8818 Aug 08 03:20	14° Ω 31′03	
asc. node	8817 Aug 25 07:46	2° Mp 49′42		asc. node	8818 Aug 12 04:43	22° Ω 53'37	
max. Earth dist.	8817 Aug 30 04:31	13° m 18'04	1.31762 AU	max. Earth dist.	8818 Aug 13 08:42	25° Ω 22'08	1.32395 AU
superior conj	8817 Aug 31 12:16	16° m 12'53	0°59'12	superior conj	8818 Aug 15 20:27	0° m 43'58	0°36'17
minimum elong	8817 Aug 31 10:06	16° mp 00'56		minimum elong	8818 Aug 15 18:51	0° mp 35'17	
	8817 Sep 06 18:51	0° ⊽	5 55 15	Ciong	8818 Aug 15 12:21	0°Mg 0°Mg	3 22 20
	•				•	-•	
evening rise	8817 Sep 07 06:18	1° Ω 01'36		evening rise	8818 Aug 22 17:57	15° Mp 43'04	
	8817 Sep 22 21:15	0°M			8818 Aug 29 18:59	0° ⊽	2202005
desc. node	8817 Sep 28 19:30	8°ML07'48		evening max el	8818 Sep 15 11:19	24° Ω 08'07	23°39'08
evening max el	8817 Oct 03 23:38	13°M46'55	25°15'00	desc. node	8818 Sep 15 16:38	24° ≏ 20'53	
retrograde	8817 Oct 17 21:01	20° M47'23			8818 Sep 24 02:49	0° M	
evening set	8817 Oct 23 16:32	19°M30'07		retrograde	8818 Sep 29 01:06	0° ጤ 55'17	
min. Earth dist.	8817 Oct 28 11:28	16°M50'05	0.57365 AU	evening set	8818 Oct 03 11:33	0° ™ 12'20	
inferior conj	8817 Oct 31 09:19	14°M52'33	-5°20'54		8818 Oct 04 02:20	30° ₽ Ω	
minimum elong	8817 Oct 31 14:37	14°M43'36		min. Earth dist.	8818 Oct 09 21:32		0.55741 AU
morning rise	8817 Nov 08 15:02	10°MJ39'51		inferior conj	8818 Oct 11 21:45	25° ⊆ 56'50	
		110.07.01					/ - /

minimum elong	8818 Oct 11 20:32	25° £ 58'39	5°37'00	min. Earth dist.	8819 Sep 21 05:31	6° £ 37'56	
morning rise	8818 Oct 20 07:33	22° Ω 02'31		inferior conj	8819 Sep 21 18:26	6° Ω 19'51	
direct	8818 Oct 23 03:33	21° Ω 42'33		minimum elong	8819 Sep 21 10:12	6° £ 31'23	4°59'19
morning max el	8818 Nov 02 14:48	26° Ω 38'05	20°12'09	morning rise	8819 Sep 30 05:09	2° £ 31'51	
_	8818 Nov 05 17:46	0° ™		direct	8819 Oct 03 15:38	2° Ω 05'45	
asc. node	8818 Nov 08 04:30	3°M12'21		morning max el	8819 Oct 15 15:44	,	21°41'45
morning set	8818 Nov 20 22:58	26°M08'03		asc. node	8819 Oct 26 01:29	21° Ω 17'00	
	8818 Nov 22 20:11	0° ∡ 7			8819 Oct 30 22:37	0°M	
	001037 20 14 00	110 7 15110	1020155	morning set	8819 Nov 05 08:33	10°M54'24	
superior conj	8818 Nov 28 14:08	11° ₹ 45'13	1°30'57		0010 N 12 12 10	260 m 05124	1920120
minimum elong max. Earth dist.	8818 Nov 28 16:20	11° 尽 56'16 22° 尽 38'59	1°31'00 1.36690 AU	superior conj	8819 Nov 12 13:10	26°M05'34 26°M10'21	1°39'20 1°39'29
	8818 Dec 04 03:31 8818 Dec 07 23:05	22 x ·38 39 29° x 44'48	1.30090 AU	minimum elong	8819 Nov 12 14:05 8819 Nov 14 10:18	20 IIC1021 0° 7	1 39 29
evening rise	8818 Dec 07 23:03	29 ズ ・44 46		max. Earth dist.	8819 Nov 16 15:49	4° ∡ ³32'46	1.34823 AU
desc. node	8818 Dec 12 15:25	8°ろ00'38		evening rise	8819 Nov 20 22:20	12° 2 55'53	1.54625 AU
dese. Hode	8818 Dec 26 14:34	0°≈		desc. node	8819 Nov 29 12:29	28°×724'06	
evening max el	8819 Jan 12 13:36		25°49'14	desc. Hode	8819 Nov 30 11:17	0°る	
retrograde	8819 Jan 25 00:48	28°≈08'35	20 .51.		8819 Dec 21 15:06	o° ≈	
evening set	8819 Jan 31 01:43	25° ≈ 40'10		evening max el	8819 Dec 26 03:03	4° ≈ 44'06	26°46'22
asc. node	8819 Feb 04 03:40	21° ≈ 19'01		retrograde	8820 Jan 08 05:50	12° ≈ 02'27	
min. Earth dist.	8819 Feb 04 08:52	21°≈02'53	0.67177 AU	evening set	8820 Jan 14 18:26	9° ≈ 27'43	
inferior conj	8819 Feb 05 19:29	19° ≈ 13'39	0°32'44	min. Earth dist.	8820 Jan 18 19:32	5°≈25'03	0.65993 AU
minimum elong	8819 Feb 05 18:40	19° ≈ 16'15	0°32'33	inferior conj	8820 Jan 20 17:50	3° ≈ 09'29	-0°25'52
morning rise	8819 Feb 11 12:08	13° ≈ 23′05		minimum elong	8820 Jan 20 18:33	3°≈07'22	0°25'22
direct	8819 Feb 14 18:50	12° ≈ 21'30		asc. node	8820 Jan 22 00:46	1° ≈ 40′12	
morning max el	8819 Feb 21 14:17	16° ≈ 04'48	18°56'17		8820 Jan 23 14:23	30°₹ る	
	8819 Mar 04 05:40	0° ∀		morning rise	8820 Jan 26 19:42	27° る 30'04	
desc. node	8819 Mar 10 15:06	9°) 44′27		direct	8820 Jan 29 16:26	26° る 44'45	
morning set	8819 Mar 16 02:29	18°) (14′13			8820 Feb 04 22:46	0° ≈	
	8819 Mar 23 15:41	0 ° Υ		morning max el	8820 Feb 05 03:43	0° ≈ 12'03	18°16'24
max. Earth dist.	8819 Mar 30 14:02	10° Y 50′30	1.45300 AU	morning set	8820 Feb 24 10:50	28° ≈ 27'22	
					8820 Feb 25 09:53	0° ∀	
superior conj	8819 Apr 01 15:03	14° Y 03′08		desc. node	8820 Feb 25 12:01	0°) €08'34	
minimum elong	8819 Apr 01 08:00	13° Y 35′22	2°01'43			>/	
	8819 Apr 11 15:44	0° 8		superior conj	8820 Mar 10 20:13	22°) 53'41	
evening rise	8819 Apr 16 15:07	8° 8 02'34		minimum elong	8820 Mar 10 10:42	22°)(16'22	
1	8819 Apr 30 10:11	0°П 20П 45121		max. Earth dist.	8820 Mar 12 09:50	25° π 21'02 0° Υ	1.45547 AU
asc. node	8819 May 03 02:24 8819 May 06 21:39	3° Ⅱ 45'31 8° Ⅱ 14'55	10022107		8820 Mar 15 09:11 8820 Mar 26 21:24	17° Y 58'31	
evening max el retrograde	8819 May 13 09:32	8 П 14 33	18 32 00	evening rise	8820 Apr 03 14:21	0° 8	
evening set	8819 May 16 13:29	11 Д 4043		greatest brilliancy	8820 Apr 07 01:08	5° 8 18'48	-0.8m
inferior conj	8819 May 22 06:53	5° Ⅱ 17'23	3°16'42	asc. node	8820 Apr 18 23:30	21° 8 33'03	-0.0111
minimum elong	8819 May 22 07:59	5° Ⅱ 14'04	3°16'24	evening max el	8820 Apr 19 06:47		19°11'35
min. Earth dist.	8819 May 24 09:28		0.64940 AU	retrograde	8820 Apr 26 05:45	25° 8 46'37	.,
	8819 May 26 23:12	30° ₹ 8		evening set	8820 Apr 29 17:34	24° 8 35'31	
morning rise	8819 May 28 01:39	29° 8 00'25		inferior conj	8820 May 05 04:49	18° 8 46'42	3°21'59
direct	8819 Jun 03 16:28	26° 8 15'28		minimum elong	8820 May 05 04:39	18° 8 47'15	3°21'49
desc. node	8819 Jun 06 14:53	26° 8 43'43		min. Earth dist.	8820 May 06 16:04	16° 8 53'03	0.66490 AU
	8819 Jun 12 11:58	$\Pi^{\circ}0$		morning rise	8820 May 10 15:20	12° 8 27'59	
morning max el	8819 Jun 17 04:04	4° Ⅱ 11'12	27°13'40	direct	8820 May 16 21:33	9° 8 43'27	
	8819 Jul 06 16:27	0 \circ \odot		desc. node	8820 May 23 11:52	12° 8 05'46	
morning set	8819 Jul 22 16:01	27° © 59'49		morning max el	8820 May 29 14:29	17° 8 18'12	26°09'40
	8819 Jul 23 16:37	0 ° Ω			8820 Jun 09 04:39	Π °0	
max. Earth dist.	8819 Jul 27 04:27	7° Ω 00'42	1.33519 AU		8820 Jun 28 15:08	0 \circ \odot	
asc. node	8819 Jul 30 01:40	12° Ω 59'41		morning set	8820 Jul 04 15:58	10° © 49'44	
	0010 1 1 20 22 15	1.40 0 5 5 10 5	0000116	max. Earth dist.	8820 Jul 08 13:38	18° © 14'33	1.35125 AU
superior conj	8819 Jul 30 23:45	14° Ω 56'02	0°09'16		0000 1 1 10 10 15	200-	0021102
minimum elong	8819 Jul 30 23:17	14°Ω53'34	0°08'59	superior conj	8820 Jul 13 19:43	28°542'44	
behind sun begin	8819 Jul 30 18:38	14° Ω 29'02		minimum elong	8820 Jul 13 20:56	28°549'00	0~21'01
behind sun end	8819 Jul 31 03:55	15° Ω 18'07		aga m-J-	8820 Jul 14 10:50	0° Ω 2° Ω 04!21	
evening rise	8819 Aug 07 04:53 8819 Aug 07 01:21	0° Mp 18'42 0° Mp		asc. node	8820 Jul 15 22:39 8820 Jul 21 13:09	3° Ω 04'21 14° Ω 42'53	
	8819 Aug 07 01:21 8819 Aug 24 03:26	0₀ ರ ೧ೣೠ		evening rise	8820 Jul 21 13:09 8820 Jul 29 08:59	14°8742′53 0° Mp	
evening max el	8819 Aug 28 00:57	0 <u>ა.</u> 4° Ω 21'45	22°00'27	evening max el	8820 Aug 09 00:46	رابا 0 15° 10 01'39	20°33'27
desc. node	8819 Sep 02 13:46	4 = 21 43 8° Ω 39'15	22 0021	desc. node	8820 Aug 19 10:52	20° m 32'45	20 3321
retrograde	8819 Sep 09 17:14	10° ⊆ 39'55		retrograde	8820 Aug 20 05:24	20° m 34'16	
evening set	8819 Sep 12 16:41	10° ⊆ 20'10		evening set	8820 Aug 22 06:48	20° m 23'49	
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::	0020 A 21 11.10	1.69 m. 2.614.4	2022117	JJ.	0021 A 06 07-57	200 052110	
inferior conj	8820 Aug 31 11:10	16° Mp 26'44		desc. node	8821 Aug 06 07:57	29° € 52'19	
minimum elong	8820 Aug 31 02:05	16° Mp 39′50	3°29'24		8821 Aug 06 00:56	30°R€	
min. Earth dist.	8820 Sep 01 14:37	15° ™ 47'08	0.54775 AU	inferior conj	8821 Aug 11 14:32	26° Ω 50'47 -1°37'17	
morning rise	8820 Sep 08 21:02	12° Mp 24'38		minimum elong	8821 Aug 11 10:09	$26^{\circ} \Omega 57'52 1^{\circ}35'44$	
direct	8820 Sep 13 00:06	11° Mp 48'07		min. Earth dist.	8821 Aug 14 03:04	25° Ω 13'07 0.55683 .	ΑU
morning max el	8820 Sep 26 06:51	18°Mp12'41	23°25'47	morning rise	8821 Aug 19 19:30	22° Ω 16′21	
	8820 Oct 05 21:53	0∘ ত		direct	8821 Aug 24 17:55	21° Ω 21'18	
asc. node	8820 Oct 11 22:26	10° ≏ 01'26		morning max el	8821 Sep 07 19:08	28° Ω 25'35 25°10'27	
morning set	8820 Oct 19 20:01	25° £ 44'09			8821 Sep 09 09:09	0° m p	
	8820 Oct 21 19:50	0°M		asc. node	8821 Sep 28 19:23	29° m 15'36	
					8821 Sep 29 04:29	0∘ ⊽	
superior conj	8820 Oct 26 18:41	10°M43'22	1°40'49	morning set	8821 Oct 04 07:40	10° £ 32'13	
minimum elong	8820 Oct 26 18:21	10°M41'35	1°40'56	<i>5 8 1 1 1 1 1 1 1 1 1 1</i>			
max. Earth dist.	8820 Oct 29 12:10	16°M33'04	1.33338 AU	superior conj	8821 Oct 11 04:16	25° ≙ 31'05 1°36'07	
evening rise	8820 Nov 03 10:27	26°M41'02	1.55556710	minimum elong	8821 Oct 11 04:10	25° 2 3'42 1°36'07	
evening rise	8820 Nov 05 10.27 8820 Nov 05 02:51	20 11 0 41 02 0° √		max. Earth dist.	8821 Oct 11 02:55 8821 Oct 12 15:56	28° 2 46'34 1.32296 .	ATT
JJ.				max. Earm dist.			AU
desc. node	8820 Nov 15 09:32	18° ₹ 29'57			8821 Oct 13 05:24	0°M	
	8820 Nov 22 19:10	0°る		evening rise	8821 Oct 18 08:06	10° M .51'37	
evening max el	8820 Dec 07 15:44	18° る 10'57	27°21'30		8821 Oct 28 08:59	0° ∡	
retrograde	8820 Dec 21 04:45	25° ප 31'35		desc. node	8821 Nov 02 06:35	8° ∡ 10'41	
evening set	8820 Dec 28 02:25	22° る 56'49			8821 Nov 18 21:14	0°පි	
min. Earth dist.	8820 Dec 31 22:17	19° る 27'21	0.64461 AU	evening max el	8821 Nov 20 02:00	1°る10'01 27°28'18	
inferior conj	8821 Jan 03 08:15	16° る 52'47	-1°31'26	retrograde	8821 Dec 03 20:56	8° ප 27'07	
minimum elong	8821 Jan 03 11:04	16° ප් 45'16	1°30'02	evening set	8821 Dec 10 22:52	6° ට 01'14	
asc. node	8821 Jan 07 21:52	12° る 35'49		min. Earth dist.	8821 Dec 14 15:27	3° る 00'35 0.62628 .	ΑU
morning rise	8821 Jan 09 21:20	11° る 27'23		inferior conj	8821 Dec 17 11:57	0°る17'11 -2°41'45	
direct	8821 Jan 12 10:01	10° る 54'36		minimum elong	8821 Dec 17 17:08	0°る04'45 2°39'32	
morning max el	8821 Jan 18 20:35	14° る 16'39	17°53'25	8	8821 Dec 17 19:08	30°R. ₹	
morning max or	8821 Jan 29 23:22	0°≈	17 33 23	morning rise	8821 Dec 24 13:35	25° ₹ 08'43	
morning set	8821 Feb 05 00:09	10°≈05'37		asc. node	8821 Dec 25 18:55	24° ₹ 50'01	
desc. node	8821 Feb 11 08:56	20°≈43'13		direct	8821 Dec 26 20:33	24° ₹ 44'43	
desc. node		20 ≈ 43 13 0° \					,
	8821 Feb 17 01:18	0°π		morning max el	8822 Jan 02 13:52	28° ₹ 10'59 17°47'57	
		>/			8822 Jan 04 06:07	0° ප	
superior conj	8821 Feb 18 12:10	2° ∺ 20'17		morning set	8822 Jan 18 13:12	22°る52'07	
minimum elong	8821 Feb 18 06:26	1° ∺ 57'17	0°49'30		8822 Jan 22 14:29	0° ≈	
max. Earth dist.	8821 Feb 23 05:24	9° ∺ 50'48	1.45046 AU	desc. node	8822 Jan 29 05:52	11° ≈ 24'42	
evening rise	8821 Mar 06 11:40	27°) €21'27					
	8821 Mar 08 05:02	0 ° Υ		superior conj	8822 Jan 30 03:27	12°≈55′26 -0°06′39	
greatest brilliancy	8821 Mar 21 09:16	19° Ƴ 48'14	-0.6m	minimum elong	8822 Jan 30 02:48	12°≈52'42 0°06'23	
	8821 Mar 28 17:33	8°		behind sun begin	8822 Jan 29 18:26	12°≈17'36	
evening max el	8821 Apr 02 10:49	5° ႘ 30'37	20°06'49	behind sun end	8822 Jan 30 11:10	13° ≈ 27'45	
asc. node	8821 Apr 05 20:37	8° 8 26'02		max. Earth dist.	8822 Feb 05 22:03	24°≈03'07 1.43869	ΑU
retrograde	8821 Apr 10 04:11	9° 8 59'02			8822 Feb 09 15:36	0°) €	
evening set	8821 Apr 14 00:38	8° 8 32'51		evening rise	8822 Feb 14 00:00	6°) €47'51	
inferior conj	8821 Apr 19 08:39	2° 8 30'08	3°14'03		8822 Mar 01 12:25	0° Υ	
minimum elong	8821 Apr 19 07:26	2° 8 34'16	3°13'49	evening max el	8822 Mar 16 09:19	19° Υ 10'43 21°15'04	
min. Earth dist.	8821 Apr 20 05:28	_	0.67598 AU	asc. node	8822 Mar 23 17:43	24° Υ 09'39	
iiiii. Eartii tiist.	-	1 0 1933	0.07398 AU			24° γ 19'10	
	8821 Apr 21 05:26	26°Υ12'42		retrograde	8822 Mar 25 02:36	22° Y 37'50	
morning rise	8821 Apr 24 13:59			evening set	8822 Mar 29 08:49		
direct	8821 Apr 30 08:23	23°Y38'21		inferior conj	8822 Apr 03 15:59	16° Υ 23'35 2°55'07	
desc. node	8821 May 10 08:50	29° Y ′02'06		minimum elong	8822 Apr 03 14:03	16° Y 30'16 2°54'41	
	8821 May 11 09:02	0°8		min. Earth dist.	8822 Apr 03 23:32	15° Y 57′22 0.68257 .	ΑU
morning max el	8821 May 12 00:01	0° 8 37'24	24°47'47	morning rise	8822 Apr 08 19:05	10° Y ′09′23	
	8821 Jun 03 02:59	Π $\circ 0$		direct	8822 Apr 14 00:04	7° Ƴ 52'14	
morning set	8821 Jun 16 22:39	22° Ⅱ 48'49		morning max el	8822 Apr 24 09:30	14° Υ 03'18 23°18'16	ì
max. Earth dist.	8821 Jun 20 13:22	29° Ⅱ 19'05	1.37133 AU	desc. node	8822 Apr 27 05:47	17° Y 06′59	
	8821 Jun 20 22:17	0°ಲಾ			8822 May 07 07:30	0° ႘	
					8822 May 27 00:58	Π°	
superior conj	8821 Jun 27 05:17	11°956'14	-0°53'10	morning set	8822 May 29 06:35	3° Ⅱ 42'52	
minimum elong	8821 Jun 27 08:36	12°5012'24		max. Earth dist.	8822 Jun 02 09:16	10° Ⅱ 44'07 1.39373	ΑII
asc. node	8821 Jul 02 19:39	23°503'34	J J2 T0	max. Larm dist.	5022 Juli 02 07.10	10 HTTUI 1.373/3	٠.٠
					0022 1 10 00 20	240TT27120 1024141	
evening rise	8821 Jul 05 16:22	28°548'57		superior conj	8822 Jun 10 00:38	24° I 127'29 -1°24'41	
	8821 Jul 06 06:35	0°N		minimum elong	8822 Jun 10 05:54	24° I 51'56 1°24'10	
evening max el	8821 Jul 22 14:01	26° Ω 25'41	19°25'37		8822 Jun 12 23:35	0°©	
	8821 Jul 27 09:45	0°Щ		evening rise	8822 Jun 19 11:39	12° © 29'07	
retrograde	8821 Aug 01 01:50	1° Mp 07′25		asc. node	8822 Jun 19 16:38	12° © 53'10	
evening set	8821 Aug 02 22:11	0° ™ 57'31			8822 Jun 29 02:51	0 $^{\circ}\Omega$	

avaning may al	8822 Jul 05 14:55	8° Ω 33'36	100201/12		8823 Jun 05 05:02	0°9	
evening max el	8822 Jul 13 15:24	12° Ω 32'53	16 36 43	asc. node	8823 Jun 06 13:40	0 55 2°528'48	
retrograde evening set	8822 Jul 15 16:34	12° Ω 18'11		evening max el	8823 Jun 18 23:41	2 \$2848 21°\$17'00	18°12'15
inferior conj	8822 Jul 23 13:47	7° Ω 53'18	0°11'31	retrograde	8823 Jun 25 23:58	21 \$1700 24°\$49'19	16 12 13
minimum elong	8822 Jul 23 14:13	7° Ω 52'29	0°11'10	•	8823 Jun 28 08:41	24°\$25'52	
transit middle	8822 Jul 23 14:13	7° Ω 52'29	0°11'10	evening set	8823 Jul 05 10:45	19° © 40'09	1°35'59
		7° Ω 57'26	0 11 10	inferior conj			
transit begin	8822 Jul 23 11:35			minimum elong	8823 Jul 05 13:29	19°534'08	1°34'53 0.59512 AU
transit end	8822 Jul 23 16:50	7° Ω 47'31		min. Earth dist.	8823 Jul 08 19:32	16°543'27	0.59512 AU
desc. node	8822 Jul 24 05:03	7° Ω 24'21	0.57270 411	desc. node	8823 Jul 11 02:09	14°957'41	
min. Earth dist.	8822 Jul 26 20:08	5° Ω 26'28	0.57370 AU	morning rise	8823 Jul 12 15:14	13°957'46	
morning rise	8822 Jul 31 08:21	2° Ω 41'45		direct	8823 Jul 19 00:30	12°504'13	2702 (10.5
direct	8822 Aug 06 02:32	1° Ω 19'13	2 < 0.2 012 5	morning max el	8823 Aug 02 09:03	19° © 55'09	27°36'05
morning max el	8822 Aug 20 10:47	8° Ω 52'11	26°38'35		8823 Aug 10 23:54	0° N	
	8822 Sep 05 10:30	0° m			8823 Aug 29 05:50	0° m	
asc. node	8822 Sep 15 16:19	18° m 50'52		asc. node	8823 Sep 02 13:15	8° Mp 41'18	
morning set	8822 Sep 18 17:48	25° m 12'47		morning set	8823 Sep 03 00:47	9° m 41'30	
	8822 Sep 20 23:11	0∘ ⊽		max. Earth dist.	8823 Sep 09 10:31	23° m 34'15	1.31617 AU
	0000 0 05 15 46	100 0 01106	1005140		0000 0 10 00 00	2.50 m. 00101	1010100
superior conj	8822 Sep 25 15:46	10° £ 21'06		superior conj	8823 Sep 10 03:26	25° Mp 08'01	1°10'20
minimum elong	8822 Sep 25 13:46	10° Ω 09'57	1°25'37	minimum elong	8823 Sep 10 01:11	24° m 55'33	1°09'57
max. Earth dist.	8822 Sep 26 00:29	11° ≏ 09'29	1.31721 AU		8823 Sep 12 08:03	0∘ ত	
evening rise	8822 Oct 02 12:28	25° ≏ 18'49		evening rise	8823 Sep 16 21:16	9° £ 56'22	
	8822 Oct 04 18:37	0°M₊			8823 Sep 27 02:14	0°M₊	
desc. node	8822 Oct 20 03:40	27°M15'13		desc. node	8823 Oct 07 00:47	15°M29'25	
	8822 Oct 22 00:52	0° ∡		evening max el	8823 Oct 15 05:27	24°M56'02	26°02'20
evening max el	8822 Nov 02 07:23	13° ≯ 28'03	27°02'08		8823 Oct 21 23:21	0°₺	
retrograde	8822 Nov 16 05:08	20° ∡ ³38'30		retrograde	8823 Oct 29 03:32	1° ∡ 759'29	
evening set	8822 Nov 23 03:54	18° ∡ ³32'09		evening set	8823 Nov 04 12:48	0° ∡ ¹22'29	
min. Earth dist.	8822 Nov 26 22:03	15° ₹ 51'25	0.60583 AU		8823 Nov 05 06:15	30°₽ M L	
inferior conj	8822 Nov 30 01:32	13° ∡ 13′01	-3°52'23	min. Earth dist.	8823 Nov 08 18:19	27°M47'33	0.58498 AU
minimum elong	8822 Nov 30 08:39	12° ≯ 58′01	3°49'58	inferior conj	8823 Nov 11 21:30	25°M30'34	-4°54'33
morning rise	8822 Dec 07 15:50	8° ≯ 24'29		minimum elong	8823 Nov 12 04:33	25°M17'39	4°52'55
direct	8822 Dec 09 20:19	8° 渘 05'41		morning rise	8823 Nov 19 22:38	21°M04'29	
asc. node	8822 Dec 12 15:57	8° ₮ 38'20		direct	8823 Nov 22 05:04	20°M47'33	
morning max el	8822 Dec 17 04:05	11° ∡ ¹44'57	18°01'09	asc. node	8823 Nov 29 12:58	23°M56'50	
	8822 Dec 29 07:22	8°0		morning max el	8823 Nov 30 11:38	24°M48'39	18°34'40
morning set	8823 Jan 01 19:32	6° る 26'56			8823 Dec 04 20:01	0° ∡ ¹	
				morning set	8823 Dec 16 13:51	20° ∡ ³34′26	
superior conj	8823 Jan 11 19:55	24° る 42'04	0°31'44		8823 Dec 21 10:53	0°ප	
minimum elong	8823 Jan 11 22:23	24° る 52'54	0°31'34				
	8823 Jan 14 20:45	0° ≈		superior conj	8823 Dec 25 09:47	7° る 29'13	1°01'39
desc. node	8823 Jan 16 02:48	2°≈09'01		minimum elong	8823 Dec 25 13:07	7°る44'47	1°01'26
max. Earth dist.	8823 Jan 19 10:23	7° ≈ 44'26	1.42144 AU	max. Earth dist.	8824 Jan 01 18:32	20° ප් 46'12	1.40068 AU
evening rise	8823 Jan 25 00:59	16° ≈ 52'38		desc. node	8824 Jan 02 23:46	22° る 52'42	
Č	8823 Feb 02 12:08	0° ∀		evening rise	8824 Jan 05 22:35	27°る52'54	
	8823 Feb 24 10:30	$_{0}$ ° γ			8824 Jan 07 05:10	0° ≈	
evening max el	8823 Feb 27 03:03	2° Y 53'11	22°32'08		8824 Jan 27 01:41	0°) €	
retrograde	8823 Mar 08 23:14	8° Υ 43'00		evening max el	8824 Feb 09 17:39	16°) 38'45	23°52'21
asc. node	8823 Mar 10 14:50	8° Ƴ 29'22		retrograde	8824 Feb 20 16:45	23°) €05'51	
evening set	8823 Mar 13 16:28	6° Υ 46'38		asc. node	8824 Feb 25 11:58	21°) 15'51	
inferior conj	8823 Mar 19 00:44		2°26'31	evening set	8824 Feb 25 22:05	20°) 55′13	
minimum elong	8823 Mar 18 22:31		2°25'55	min. Earth dist.	8824 Mar 01 16:30	15° ¥ 23'39	0.68288 AU
min. Earth dist.	8823 Mar 18 19:58	0° Υ 40'24	0.68480 AU	inferior conj	8824 Mar 02 09:03	14°) (27'21	1°48'59
	8823 Mar 19 07:36	30° ₹		minimum elong	8824 Mar 02 06:57	14°) (34'29	1°48'21
morning rise	8823 Mar 24 04:23	24°) 14'23		morning rise	8824 Mar 07 15:50	8° H 24'07	1 1021
direct	8823 Mar 28 19:31	22° H 18'26		direct	8824 Mar 11 17:29	6° H 50'34	
morning max el	8823 Apr 06 22:03	27°) (37'18	21°50'35	morning max el	8824 Mar 19 17:08	11° H 22'57	20°31'55
	8823 Apr 09 03:42	0° Υ	21 0000	desc. node	8824 Mar 30 23:39	25° H 31'51	20 0100
desc. node	8823 Apr 14 02:43	6° Υ 01'33		dese. Houc	8824 Apr 03 02:31	25 χ 3131	
acse. Houc	8823 Apr 30 21:55	0° 8		morning set	8824 Apr 17 16:20	21° Υ 56'57	
morning set	8823 May 09 11:28	13° 8 21'44		morning set	8824 Apr 22 19:39	0° 8	
•	-	22° 8 58'16	1.41580 AU	may Earth 3:-4	-		1.43475 AU
max. Earth dist.	8823 May 15 08:48	0° Ⅱ	1.41300 AU	max. Earth dist.	8824 Apr 26 15:47	0 00/3/	1.434/3 AU
	8823 May 19 12:45	υц		superior con-	9924 May 02 02:29	16° 8 42'08	200011
superior conj	8823 May 23 01:15	6° Ⅱ 06'20	1051140	superior conj minimum elong	8824 May 03 02:38 8824 May 03 06:01	16° 8 56'12	
	8823 May 23 07:10	6° Д 32'19		minimum elong		0° Ⅱ	4 09 13
minimum elong	8823 May 23 07:10 8823 Jun 02 19:19	6°Щ32′19 25°Щ34′29	1 31 29	avaning rise	8824 May 10 22:20	0°Щ 7°Щ53'41	
evening rise	0045 Juli 04 19.19	23 11 34 29		evening rise	8824 May 15 10:51	/ ДЗЗ 41	

asc. node	8824 May 23 10:43	21° II 44'12			8825 Apr 15 11:37	0° ႘	
use. noue	8824 May 28 19:33	0°9		evening rise	8825 Apr 27 05:41	19° 8 17'57	
evening max el	8824 Jun 01 12:23	4°524'42	18°05'15		8825 May 03 15:45	0°II	
retrograde	8824 Jun 08 00:04	7°9545'53		asc. node	8825 May 10 07:48	10° Ⅲ 32'46	
evening set	8824 Jun 10 16:19	7° © 10'58		evening max el	8825 May 16 01:44	17° Ⅱ 48'41	18°16'59
inferior conj	8824 Jun 17 02:32	2° © 05'26	2°33'05	retrograde	8825 May 22 11:03	21° Ⅱ 13'07	
minimum elong	8824 Jun 17 05:23	1° 9 58'13	2°32'10	evening set	8825 May 25 10:37	20° Ⅱ 25′03	
	8824 Jun 19 03:51	30° Ŗ Ⅱ		inferior conj	8825 May 31 09:03	15° Ⅱ 01′29	3°06'22
min. Earth dist.	8824 Jun 20 03:11	29° II 02'27	0.61767 AU	minimum elong	8825 May 31 10:54	14° Ⅱ 56′13	3°05'53
morning rise	8824 Jun 23 16:20	26° Ⅱ 02'19		min. Earth dist.	8825 Jun 02 20:17	12° Ⅱ 13'47	0.63871 AU
desc. node	8824 Jun 26 23:14	24° Ⅱ 17'31		morning rise	8825 Jun 06 09:56	8° Ⅱ 47'13	
direct	8824 Jun 30 09:18	23° Ⅱ 41'16		direct	8825 Jun 13 03:15	6° Ⅱ 07'36	
	8824 Jul 12 19:04	0 \circ \odot		desc. node	8825 Jun 13 20:17	6° Ⅱ 09'14	
morning max el	8824 Jul 14 13:52	1° © 42'12	27°56'04	morning max el	8825 Jun 26 23:01	14° Ⅱ 09'22	27°38'35
	8824 Aug 04 07:06	$0^{\circ}\Omega$			8825 Jul 09 18:33	0ංම	
morning set	8824 Aug 17 02:37	23° Ω 52′25			8825 Jul 27 21:58	$0^{\circ}\Omega$	
asc. node	8824 Aug 19 10:11	28° Ω 41'09		morning set	8825 Jul 31 20:59	7° Ω 39'10	
	8824 Aug 20 01:06	0° m ∕		max. Earth dist.	8825 Aug 05 19:14	17° Ω 43'30	1.32814 AU
max. Earth dist.	8824 Aug 22 18:07	5° Mp 49′22	1.31977 AU	asc. node	8825 Aug 06 07:09	18° Ω 46'10	
superior conj	8824 Aug 24 13:23	9° m 45'47	0°50'00	superior conj	8825 Aug 08 19:44	24° Ω 08'57	0°25'16
minimum elong	8824 Aug 24 11:23	9° m 34'50	0°49'33	minimum elong	8825 Aug 08 18:33	24° Ω 02'32	0°24'52
evening rise	8824 Aug 31 08:24	24° Mp 37'33			8825 Aug 11 12:42	O° Mp	
	8824 Sep 02 21:31	0∘ ⊽		evening rise	8825 Aug 15 19:58	9° ™ 16'46	
	8824 Sep 20 17:57	0°M,			8825 Aug 26 12:12	0∘ ত	
desc. node	8824 Sep 22 21:55	2°M33'37		evening max el	8825 Sep 07 06:43	15° ≏ 47'21	22°56'25
evening max el	8824 Sep 25 19:37	5°M35'14	24°35'37	desc. node	8825 Sep 09 19:03	18° ≏ 01'27	
retrograde	8824 Oct 09 14:33	12°M30'59		retrograde	8825 Sep 20 13:28	22° ≙ 25'21	
evening set	8824 Oct 14 21:27	11°ML28'44		evening set	8825 Sep 24 08:20	21° ≏ 53'58	
min. Earth dist.	8824 Oct 20 06:37	8°M41'05	0.56610 AU	min. Earth dist.	8825 Oct 01 15:14	18° ≏ 35'34	
inferior conj	8824 Oct 22 21:18	7°ML01'32		inferior conj	8825 Oct 03 01:57	17° ≏ 45'36	
minimum elong	8824 Oct 23 00:18	6°M56'45	5°32'55	minimum elong	8825 Oct 02 21:22	17° ≙ 52'13	5°28'19
morning rise	8824 Oct 31 05:19	2°M57'46		morning rise	8825 Oct 11 12:25	13° ≏ 56'23	
direct	8824 Nov 02 19:00	2°M39'45		direct	8825 Oct 14 14:01	13° 2 34'25	
morning max el	8824 Nov 12 08:57	7°M12'13	19°30'14	morning max el	8825 Oct 25 17:28	18° ≏ 47'54	20°48'06
asc. node	8824 Nov 15 09:58	10°M32'02		asc. node	8825 Nov 02 06:58	28° £ 08'04	
	8824 Nov 27 03:11	0° ∡			8825 Nov 03 11:40	0°M	
morning set	8824 Nov 29 16:17	5° ∡ 03′28		morning set	8825 Nov 13 23:53	19°M45'05	
	00047 07 15 50	210 70252	1000140		8825 Nov 18 22:02	0°⋪	
superior conj	8824 Dec 07 15:59	21°×702'53	1°22'40		9925 Nam 21 00.56	59. 7 00016	1°35'24
minimum elong	8824 Dec 07 18:49	21° メ 16'42 0°る	1-22/30	superior conj	8825 Nov 21 09:56 8825 Nov 21 11:36	5°× 7 09'16	1°35′24 1°35′30
max. Earth dist.	8824 Dec 12 07:58 8824 Dec 14 00:30	3° ろ 08'09	1.37884 AU	minimum elong max. Earth dist.	8825 Nov 26 08:42	5° х 17'48 15° х 03'49	1.35843 AU
evening rise	8824 Dec 17 17:48	9° る 50'11	1.37864 AU	evening rise	8825 Nov 30 07:53	13 x ·03 49 22° x 36'55	1.55645 AU
desc. node	8824 Dec 17 17.48 8824 Dec 19 20:46	9 33 011		evening rise	8825 Dec 04 09:51	22 メ ・30 33	
desc. node	8824 Dec 29 23:41	0°≈		desc. node	8825 Dec 04 07:31 8825 Dec 06 17:47	4° る 02'35	
	8825 Jan 21 20:06	0° ₩		dese. Hode	8825 Dec 23 17:58	0°≈	
evening max el	8825 Jan 22 06:52	0° ₩ 26'44	25°09'14	evening max el	8826 Jan 04 19:58	14°≈12'47	26°15'45
retrograde	8825 Feb 03 06:10	7° ₩ 22'59		retrograde	8826 Jan 17 14:40	21° ≈ 27'04	
evening set	8825 Feb 09 00:06	4°) €59'51		evening set	8826 Jan 23 20:45	18° ≈ 55'03	
asc. node	8825 Feb 11 09:05	2° 升 36'40		min. Earth dist.	8826 Jan 28 01:07	14° ≈ 32'41	0.66713 AU
	8825 Feb 13 11:53	30°R≈		asc. node	8826 Jan 29 06:11	13° ≈ 03'43	
min. Earth dist.	8825 Feb 13 10:57	0° ₩ 02'59	0.67693 AU	inferior conj	8826 Jan 29 16:47	12° ≈ 31'07	0°08'48
inferior conj	8825 Feb 14 15:03	28° ≈ 31'22	1°02'59	minimum elong	8826 Jan 29 16:33	12° ≈ 31'51	0°08'53
minimum elong	8825 Feb 14 13:36	28° ≈ 36′05	1°02'33	transit middle	8826 Jan 29 16:33	12° ≈ 31'51	0°08'53
morning rise	8825 Feb 20 03:26	22° ≈ 35'49		transit begin	8826 Jan 29 14:09	12° ≈ 39'13	
direct	8825 Feb 23 16:36	21° ≈ 23'26		transit end	8826 Jan 29 18:56	12° ≈ 24'30	
morning max el	8825 Mar 02 20:15	25° ≈ 21'04	19°26'47	morning rise	8826 Feb 04 13:06	6° ≈ 45'10	
	8825 Mar 06 22:23	0° ∀		direct	8826 Feb 07 15:15	5° ≈ 51'07	
greatest brilliancy	8825 Mar 15 15:24	12°) 1 0′06	-0.7m	morning max el	8826 Feb 14 06:29	9° ≈ 26′26	18°37'19
desc. node	8825 Mar 17 20:34	15° ¥ 28'32			8826 Mar 01 01:48	0°) €	
	8825 Mar 27 09:00	0 ° $\mathbf{\gamma}$		desc. node	8826 Mar 04 17:28	5°) 43′49	
morning set	8825 Mar 27 14:54	0° Υ 22'44		morning set	8826 Mar 07 06:46	9° ∺ 45′05	
max. Earth dist.	8825 Apr 09 05:26	20° Y 01′27	1.44827 AU		8826 Mar 20 04:27	$0^{\circ}\mathbf{\Upsilon}$	
superior conj	8825 Apr 13 03:38	26° Y 15'32		superior conj	8826 Mar 23 11:22	5° Y 08'44	
minimum elong	8825 Apr 13 00:33	26° Y 03'13	2°10'28	minimum elong	8826 Mar 23 02:23	4° Ƴ 33'34	1°50'54

		40000046					
max. Earth dist.	8826 Mar 22 23:06	4°Υ20'46	1.45494 AU	morning set	8827 Feb 16 03:42	20°≈35'00	
evening rise	8826 Apr 08 00:50	29° Y 43′04		desc. node	8827 Feb 19 14:20	26°≈12'21	
	8826 Apr 08 05:05	0° 8			8827 Feb 21 22:27	0° ∀	
greatest brilliancy	8826 Apr 16 04:11	12° 8 41'21	-0.8m				
asc. node	8826 Apr 27 04:53	28° 8 45'41		superior conj	8827 Mar 02 18:51	14°) €08'24	
	8826 Apr 28 06:13	$\Pi^{\circ}0$		minimum elong	8827 Mar 02 10:26	13° ¥ 35′08	
evening max el	8826 Apr 29 13:00	1° Ⅱ 22'16	18°46'47	max. Earth dist.	8827 Mar 05 18:38	18° ¥ 50'51	1.45422 AU
retrograde	8826 May 06 04:48	5° Ⅱ 02'47			8827 Mar 12 22:12	0° Υ	
evening set	8826 May 09 11:55	4° Ⅱ 00'27		evening rise	8827 Mar 18 22:48	9° Y 20′15	
	8826 May 13 17:43	30° ₹8		greatest brilliancy	8827 Apr 01 01:44	29° Y 25′03	-0.7m
inferior conj	8826 May 15 02:20	28° 8 20'36	3°20'42		8827 Apr 01 11:08	9° 8	
minimum elong	8826 May 15 02:53	28° 8 18'53	3°20'29	evening max el	8827 Apr 12 20:08	15° 8 00'20	19°33'21
min. Earth dist.	8826 May 16 22:26	26° 8 04'00	0.65652 AU	asc. node	8827 Apr 14 01:59	16° 8 11'38	
morning rise	8826 May 20 17:11	22° 8 02'07		retrograde	8827 Apr 20 02:09	19° 8 08'14	
direct	8826 May 27 04:50	19° 8 15'45		evening set	8827 Apr 23 17:30	17° 8 50'52	
desc. node	8826 May 31 17:18	20° 8 22'56		inferior conj	8827 Apr 29 03:05	11° 8 56'11	3°20'04
morning max el	8826 Jun 09 09:33	27° 8 05'16	26°49'10	minimum elong	8827 Apr 29 02:26	11° 8 58'20	3°19'53
	8826 Jun 12 02:56	Π $^{\circ}0$		min. Earth dist.	8827 Apr 30 08:09	10° 8 20'13	0.67019 AU
	8826 Jul 03 10:14	0 \circ		morning rise	8827 May 04 11:01	5° 8 37'47	
morning set	8826 Jul 15 04:48	20° © 53'24		direct	8827 May 10 12:39	2° 8 56'11	
max. Earth dist.	8826 Jul 19 10:29	29° 5 0'24	1.34141 AU	desc. node	8827 May 18 14:16	6° 8 28'19	
	8826 Jul 19 20:22	$0^{\circ}\Omega$		morning max el	8827 May 22 19:24	10° 8 17'35	25°36'20
					8827 Jun 07 10:09	$\Pi^{\circ}0$	
superior conj	8826 Jul 23 20:17	8° Ω 11′29	-0°03'17		8827 Jun 26 00:53	0 \circ \odot	
minimum elong	8826 Jul 23 20:28	8° Ω 12'29	0°03'27	morning set	8827 Jun 27 22:01	3° © 23'18	
behind sun begin	8826 Jul 23 14:51	7° Ω 43'12		max. Earth dist.	8827 Jul 01 14:53	10° © 15'53	1.35937 AU
behind sun end	8826 Jul 24 02:05	8° Ω 41'48					
asc. node	8826 Jul 24 04:07	8° Ω 52'21		superior conj	8827 Jul 07 12:15	21° © 45'22	-0°34'33
evening rise	8826 Jul 31 06:03	23° Ω 48′27		minimum elong	8827 Jul 07 14:20	21° © 55'49	0°34'23
	8826 Aug 03 06:09	0° m		asc. node	8827 Jul 11 01:04	28° © 55'04	
evening max el	8826 Aug 19 23:58	26° Mp 09'23	21°21'27		8827 Jul 11 13:45	$0^{\circ}\Omega$	
	8826 Aug 24 20:13	0∘ ⊽		evening rise	8827 Jul 15 12:29	8° Ω 05'39	
desc. node	8826 Aug 27 16:11	1° ≙ 21'48			8827 Jul 27 11:54	0° m)	
retrograde	8826 Sep 01 02:51	2° ₽ 09'55		evening max el	8827 Aug 02 05:38	7° m 07'45	20°02'05
evening set	8826 Sep 03 14:24	1° £ 55'45		retrograde	8827 Aug 12 16:33	12° m) 17'44	
-	8826 Sep 09 00:56	30°₽. Т р		evening set	8827 Aug 14 14:11	12° m 08'15	
inferior conj	8826 Sep 12 19:18	27° m 58'38	-4°28'43	desc. node	8827 Aug 14 13:19	12° Mp 08'36	
minimum elong	8826 Sep 12 09:46	28° Mp 12'01	4°26'20	inferior conj	8827 Aug 23 14:56	8° Mp 08'54	-2°44'37
min. Earth dist.	8826 Sep 12 23:50	27° m 52'16	0.54668 AU	minimum elong	8827 Aug 23 07:30	8° m/20'03	2°42'03
morning rise	8826 Sep 21 05:51	24° Mp 06'52		min. Earth dist.	8827 Aug 25 10:11	7° m 04'05	0.55058 AU
direct	8826 Sep 24 22:54	23° Mp 37'06		morning rise	8827 Aug 31 23:23	3° m 54'42	
morning max el	8826 Oct 07 13:42	29° Mp 36'51	22°24'54	direct	8827 Sep 05 10:45	3° m 11'09	
-	8826 Oct 07 23:29	0∘ ত		morning max el	8827 Sep 19 02:30	9° m 53'40	24°11'07
asc. node	8826 Oct 20 03:55	16° ≏ 31'05			8827 Oct 04 00:04	0∘ ⊽	
	8826 Oct 27 05:55	0°M		asc. node	8827 Oct 07 00:51	5° ≏ 28'55	
morning set	8826 Oct 29 10:28	4°M33'19		morning set	8827 Oct 13 22:12	19° ≏ 22'23	
					8827 Oct 18 19:51	0° M	
superior conj	8826 Nov 05 12:04	19°M38'09	1°40'45				
minimum elong	8826 Nov 05 12:26	19°M40'06	1°40'54	superior conj	8827 Oct 20 19:34	4°M20'26	1°39'32
max. Earth dist.	8826 Nov 09 00:01	26°M57'23	1.34135 AU	minimum elong	8827 Oct 20 18:46	4° M 16′05	1°39'37
	8826 Nov 10 11:48	0° ∡ ¹		max. Earth dist.	8827 Oct 22 23:48	9° M 02'55	1.32844 AU
evening rise	8826 Nov 13 13:04	6° ₺ 03'50		evening rise	8827 Oct 28 05:38	20°M00'38	
desc. node	8826 Nov 23 14:49	24° ∡ 19'10			8827 Nov 02 08:37	0° ∡ ¹	
	8826 Nov 27 02:08	ರ°0		desc. node	8827 Nov 10 11:54	14° ∡ 15′05	
evening max el	8826 Dec 18 09:14	27° る 50'04	27°04'27		8827 Nov 21 04:03	8°0	
	8826 Dec 20 18:50	0° ≈		evening max el	8827 Nov 30 21:22	11° る 07'00	27°28'18
retrograde	8826 Dec 31 17:22	5°≈10'52		retrograde	8827 Dec 14 13:22	18° る 26'02	
evening set	8827 Jan 07 10:03	2° ≈ 35'19		evening set	8827 Dec 21 13:29	15° る 54'17	
	8827 Jan 10 05:33	30°₽₹		min. Earth dist.	8827 Dec 25 07:47	12° る 37'31	0.63711 AU
min. Earth dist.	8827 Jan 11 08:47	28° る 46'49	0.65377 AU	inferior conj	8827 Dec 27 22:17	9° る 58'05	-2°00'52
inferior conj	8827 Jan 13 12:03	26° පි 22'05	-0°52'57	minimum elong	8827 Dec 28 02:06	9° る 48'20	1°59'06
minimum elong	8827 Jan 13 13:36	26° ප 17'41	0°52'04	asc. node	8828 Jan 03 00:20	4° る 57'03	
asc. node	8827 Jan 16 03:17	23° る 32'13		morning rise	8828 Jan 03 16:34	4° る 39'09	
morning rise	8827 Jan 19 18:28	20° පි 48'04		direct	8828 Jan 06 02:32	4° る 10'29	
direct	8827 Jan 22 11:26	20° る 08'38		morning max el	8828 Jan 12 14:59	7° る 33'17	17°48'52
morning max el	8827 Jan 28 21:39	23° る 32'52	18°04'28		8828 Jan 27 13:32	0° ≈	
	8827 Feb 03 03:39	0° ≈		morning set	8828 Jan 29 03:58	2° ≈ 44'52	

desc. node	8828 Feb 06 11:15	16°≈50'05		morning set	8829 Jan 11 01:06 8829 Jan 18 22:59	15° ප් 53'50 0°≈	
superior conj	8828 Feb 10 19:48	24° ≈ 01′23	-0°31'32				
minimum elong	8828 Feb 10 16:21	23° ≈ 47'18	0°30'53	superior conj	8829 Jan 21 22:02	5° ≈ 07'20	0°10'34
	8828 Feb 14 12:26	0°) €		minimum elong	8829 Jan 21 23:00	5° ≈ 11'31	0°10'38
max. Earth dist.	8828 Feb 16 13:31	3° ₩ 15'59	1.44623 AU	behind sun begin	8829 Jan 21 16:33	4° ≈ 43'50	
evening rise	8828 Feb 26 10:19	18°) 40′02		behind sun end	8829 Jan 22 05:28	5° ≈ 39'08	
	8828 Mar 04 21:26	0 ° $\mathbf{\Upsilon}$		desc. node	8829 Jan 23 08:10	7° ≈ 32'52	
evening max el	8828 Mar 25 21:56	28° Ƴ 40′19	20°34'33	max. Earth dist.	8829 Jan 29 05:01	17° ≈ 18′23	1.43188 AU
	8828 Mar 27 07:02	9° 8		evening rise	8829 Feb 05 02:33	28° ≈ 18'56	
asc. node	8828 Mar 30 23:07	2° 8 37'19			8829 Feb 06 04:28	0° ∀	
retrograde	8828 Apr 03 00:43	3° 8 24'41			8829 Feb 26 15:13	0 ° Υ	
evening set	8828 Apr 07 01:16	1° 8 51'57		evening max el	8829 Mar 08 18:13	12° Y 20'45	21°47'04
	8828 Apr 09 00:35	30° ŖƳ		retrograde	8829 Mar 17 22:34	17° Ƴ 46'50	
inferior conj	8828 Apr 12 08:40	25° Ƴ 44'12	3°07'17	asc. node	8829 Mar 17 20:15	17° Ƴ 46'47	
minimum elong	8828 Apr 12 07:06	25° Ƴ 49'34	3°06'58	evening set	8829 Mar 22 09:26	15° Ƴ 58'47	
min. Earth dist.	8828 Apr 12 23:41	24° Ƴ 52'37	0.67935 AU	inferior conj	8829 Mar 27 16:50	9° Ƴ 40′23	2°44'07
morning rise	8828 Apr 17 12:44	19° Ƴ 28'13		minimum elong	8829 Mar 27 14:43	9° Ƴ 47'44	2°43'37
direct	8828 Apr 23 01:38	17° Ƴ 00′29		min. Earth dist.	8829 Mar 27 18:57	9° Ƴ 33'01	0.68402 AU
morning max el	8828 May 04 04:32	23° Y 39'27	24°10'08	morning rise	8829 Apr 01 19:52	3° Y 28′15	
desc. node	8828 May 04 11:12	23° Y 56'28		direct	8829 Apr 06 18:53	1° Y 20'04	
	8828 May 09 19:38	0°8		morning max el	8829 Apr 16 15:00	7° Ƴ 08'34	22°40'23
	8828 May 30 19:31	0°П		desc. node	8829 Apr 21 08:08	12° Y 24'02	
morning set	8828 Jun 08 19:42	14° Ⅱ 56'23			8829 May 04 08:16	0°8	
max. Earth dist.	8828 Jun 12 12:24	21° II 26'37	1.38079 AU	morning set	8829 May 20 16:26	25° 8 18'43	
	8828 Jun 17 04:34	0°ಅ			8829 May 23 12:12	0°II	
	0020 0411 17 01.51	.		max. Earth dist.	8829 May 25 09:35		1.40334 AU
superior conj	8828 Jun 19 16:20	4°942'34	-1°06'46	max. Dartif dist.	002) May 25 07.55	3 4113.	1.10331710
minimum elong	8828 Jun 19 20:33	5°902'40		superior conj	8829 Jun 02 04:16	16° ∏ 52'18	-1°37'00
asc. node	8828 Jun 26 22:04	18°950'57	1 00 10	minimum elong	8829 Jun 02 10:05	17° I I18'37	
evening rise	8828 Jun 28 12:45	22° 5 02'04		minimum clong	8829 Jun 02 10:03 8829 Jun 09 06:09	0°95	1 30 30
evening rise	8828 Jul 02 15:08	0°Ω		evening rise	8829 Jun 12 03:35	5° © 28'38	
evening max el	8828 Jul 15 00:14	18° Ω 51'08	19°03'01	asc. node	8829 Jun 12 03:35 8829 Jun 13 19:06	8° 9 35'13	
•	8828 Jul 23 19:40	23°Ω13'06	19 03 01	asc. Houe	8829 Jun 27 00:31	0°Ω	
retrograde	8828 Jul 25 17:33	23° Ω 01'35		avanina may al	8829 Jun 28 04:53	0 δι 1° Ω 14'44	18°24'57
evening set	8828 Jul 31 10:25	23 ∂ t01 33 20° Ω 32'48		evening max el	8829 Jul 05 17:49	5°Ω01'02	18 24 37
desc. node		20 δί 32 48 18° Ω 47'21	0040153	retrograde	8829 Jul 03 17.49 8829 Jul 07 21:58	4°Ω43'05	
inferior conj	8828 Aug 03 02:05			evening set			0050144
minimum elong	8828 Aug 02 23:59	18° Ω 50'58	0°48'12	inferior conj	8829 Jul 15 10:45	0° Ω 09'08	0°50'44
min. Earth dist.	8828 Aug 06 00:04	16° Ω 47'23	0.56334 AU	minimum elong	8829 Jul 15 12:29	0° £ 05'37	0°49'53
morning rise	8828 Aug 11 03:20	13° Ω 57'18		1 1	8829 Jul 15 15:16	30°Rூ	
direct	8828 Aug 16 10:28	12° £ 51'37	25050152	desc. node	8829 Jul 18 07:30	27°950'23	0.50044.444
morning max el	8828 Aug 30 15:30	20° Ω 08′22	25°50′52	min. Earth dist.	8829 Jul 18 19:37	27°526'53	0.58244 AU
	8828 Sep 08 02:19	0° m)		morning rise	8829 Jul 22 23:34	24°543'00	
asc. node	8828 Sep 22 21:47	24° Mp 52'41		direct	8829 Jul 29 00:40	23° © 07'38	
	8828 Sep 25 10:20	0° ™			8829 Aug 11 13:19	0° N	27007125
morning set	8828 Sep 27 09:25	4° ჲ 07'38		morning max el	8829 Aug 12 10:05	0° Ω 49'30	2/0/25
	0000 0 + 04 06 10	100 0 00100	1022124	,	8829 Sep 02 04:52	0°M)	
superior conj	8828 Oct 04 06:12	19° £ 09'23	1°32'24	asc. node	8829 Sep 09 18:43	14° m 35'20	
minimum elong	8828 Oct 04 04:32	19° £ 00'08	1°32'19	morning set	8829 Sep 11 18:30	18° Mp 44'24	
max. Earth dist.	8828 Oct 05 06:13	21° £ 21'54	1.32003 AU		8829 Sep 16 22:57	0∘ ⊽	
	8828 Oct 09 05:28	0°M			0020 0 10 10 02	20.0.5010.5	1010150
evening rise	8828 Oct 11 06:29	4°M18'50		superior conj	8829 Sep 18 18:02	3° £ 59'05	
	8828 Oct 25 01:20	0° ∡		minimum elong	8829 Sep 18 15:52	3° £ 47'03	1°19'35
desc. node	8828 Oct 27 08:59	3° ∡ ′41′40		max. Earth dist.	8829 Sep 18 16:00	3° Ω 47'45	1.31620 AU
evening max el	8828 Nov 12 05:58	23° х 49'49	27°21'18	evening rise	8829 Sep 25 13:02	18° ≏ 51'24	
	8828 Nov 21 02:28	0°る			8829 Oct 01 00:06	0°M	
retrograde	8828 Nov 26 01:59	1°る03'26		desc. node	8829 Oct 14 06:06	22°M27'17	
	8828 Nov 30 20:36	30°R. ✓			8829 Oct 19 23:18	0° ∡ 7	
evening set	8828 Dec 03 03:50	28°×744'33	0.645	evening max el	8829 Oct 25 08:20	5° ∡ 146'57	26°40'29
min. Earth dist.	8828 Dec 06 20:19	25° ₹ 53'56	0.61778 AU	retrograde	8829 Nov 08 06:21	12° ₹ 54'50	
inferior conj	8828 Dec 09 20:23	23° ⊀ 11′00		evening set	8829 Nov 15 01:00	10° ₹ 59'30	
minimum elong	8828 Dec 10 02:32	22° ₹ 57'05	3°09'41	min. Earth dist.	8829 Nov 18 22:12		0.59689 AU
morning rise	8828 Dec 17 03:30	18° ∡ 10'37		inferior conj	8829 Nov 22 02:56	5° ∡ 751'57	
direct	8828 Dec 19 09:06	17° ∡ ¹49'07		minimum elong	8829 Nov 22 10:24	5° х 37′09	4°18'18
asc. node	8828 Dec 19 21:24	17° ∡ 750′17		morning rise	8829 Nov 29 22:16	1° ≯ 13'10	
morning max el	8828 Dec 26 07:22	21° ∡ 19'31	17°51'16	direct	8829 Dec 02 02:58	0° ∡ 755'34	
	8829 Jan 01 21:18	0°ಕ		asc. node	8829 Dec 06 18:25	2° ҂ 18'46	

morning max el	8829 Dec 09 19:20	4° √ 42'42	18°12'54		8830 Dec 02 00:07	0° x 7	
morning set	8829 Dec 25 13:07	29° ∡ ⁴44'19		morning set	8830 Dec 09 11:17	14° ∡ °01'53	
	8829 Dec 25 16:26	0° ප			0020 D 17 21 45	00=20142	1011127
superior conj	8830 Jan 04 00:19	17° る 22'10	0°45'30	superior conj minimum elong	8830 Dec 17 21:45 8830 Dec 18 00:59		1°11'37 1°11'26
minimum elong	8830 Jan 04 00:19	17 3 22 10	0°45'17	minimum clong	8830 Dec 17 15:19	0°る	1 11 20
desc. node	8830 Jan 10 05:09	28° る 17'33	0 13 17	max. Earth dist.	8830 Dec 24 21:34	· <u>~</u>	1.39137 AU
	8830 Jan 11 05:10	0° ≈		desc. node	8830 Dec 28 02:09	18° る 59'53	
max. Earth dist.	8830 Jan 11 15:21	0° ≈ 43'14	1.41286 AU	evening rise	8830 Dec 28 18:48	20° ප 11'18	
evening rise	8830 Jan 16 11:48	8° ≈ 46′09			8831 Jan 03 16:48	0°≈	
	8830 Jan 30 06:19	0°) €			8831 Jan 24 09:56	0°)	
evening max el	8830 Feb 19 10:12	26° ∺ 03'30	23°06'10	evening max el	8831 Feb 01 23:59	9° ¥ 50′03	24°25'54
	8830 Feb 24 00:06	0° Υ		retrograde	8831 Feb 13 10:09	16°) (31′16	
retrograde	8830 Mar 01 18:09	2°Υ10'37		evening set	8831 Feb 18 20:41	14°) €15'13	
asc. node	8830 Mar 04 17:22 8830 Mar 06 16:25	1° Y 27'09 0° Y 07'54		asc. node min. Earth dist.	8831 Feb 19 14:29 8831 Feb 23 11:47	13° ¥ 34'52 8° ¥ 58'07	0.68079 AU
evening set	8830 Mar 06 20:06	0 10/34 30°R ∺		inferior conj	8831 Feb 24 09:12	8 ₹3807 7°¥46'20	1°30'30
min. Earth dist.	8830 Mar 11 15:45	24°) 16'19	0.68445 AU	minimum elong	8831 Feb 24 07:19	7° X 52'40	1°29'55
inferior conj	8830 Mar 12 01:37	23°) (42'10	2°11'40	morning rise	8831 Mar 01 18:02	1°) (45'53	1 2) 33
minimum elong	8830 Mar 11 23:24	23°) (49'52		direct	8831 Mar 05 14:12	0°) €21'34	
morning rise	8830 Mar 17 06:18	17°) 35′07		morning max el	8831 Mar 13 04:29	4°) 38′00	20°02'17
direct	8830 Mar 21 15:29	15°) 48′54		desc. node	8831 Mar 26 02:00	21°) 17′18	
morning max el	8830 Mar 30 06:07	20°) (47′20	21°15'41		8831 Mar 31 23:15	0 ° Υ	
	8830 Apr 07 00:36	$0^{\circ}\Upsilon$		morning set	8831 Apr 09 09:06	12° Y ′48′29	
desc. node	8830 Apr 08 05:04	1° Y 34'52		max. Earth dist.	8831 Apr 19 21:08	29° Y °15′54	1.44122 AU
	8830 Apr 27 13:46	0° 8			8831 Apr 20 08:11	0°B	
morning set	8830 Apr 30 09:57	4° 8 26'33	1 42424 ATT		0021 A 25 10.12	00 🗸 12142	2012102
max. Earth dist.	8830 May 07 11:42	15° 8 48'00	1.42434 AU	superior conj minimum elong	8831 Apr 25 10:12 8831 Apr 25 11:12	8°812'43 8°816'48	
superior conj	8830 May 14 19:23	28° 8 04'18	-2°00'45	minimum clong	8831 May 08 09:29	0°П	2 12 10
minimum elong	8830 May 15 00:43	28° 8 27'13		evening rise	8831 May 08 12:11	0° П 11'34	
8	8830 May 15 22:16	0°II		asc. node	8831 May 18 13:13	17° Ⅱ 07'45	
evening rise	8830 May 26 04:57	18° Ⅱ 15'13		evening max el	8831 May 26 05:08	27° Ⅱ 25'09	18°08'07
asc. node	8830 May 31 16:09	28° Ⅲ 02'46			8831 May 29 14:53	0 \circ \odot	
	8830 Jun 01 19:05	0 \circ \odot		retrograde	8831 Jun 01 14:36	0° 5 45'48	
evening max el	8830 Jun 11 15:44	14° © 09'12	18°06'59	evening set	8831 Jun 04 10:01	0° © 05'27	
retrograde	8830 Jun 18 09:30	17° © 35'05			8831 Jun 04 14:30	30°RⅡ	
evening set	8830 Jun 20 21:20	17°507'12	2002122	inferior conj	8831 Jun 10 14:45	24°Ⅲ52'21	2°49'46
inferior conj	8830 Jun 27 16:12 8830 Jun 27 19:11	12° © 13'08 12° © 06'08	2°03'22 2°02'17	minimum elong	8831 Jun 10 17:15	24° П 45'39 21° П 53'20	
minimum elong min. Earth dist.	8830 Jun 30 22:35	9°9510'30	0.60467 AU	min. Earth dist. morning rise	8831 Jun 13 10:14 8831 Jun 16 22:46	21 Ⅲ 33 20 18° Ⅲ 43'41	0.62690 AU
morning rise	8830 Jul 04 14:18	6°\$20'22	0.00407710	desc. node	8831 Jun 22 01:39	16° Ⅲ 21'35	
desc. node	8830 Jul 05 04:36	5° © 58'35		direct	8831 Jun 23 16:55	16° Ⅱ 13'03	
direct	8830 Jul 11 03:45	4° © 14'01		morning max el	8831 Jul 07 18:08	24° Ⅱ 15'44	27°52'59
morning max el	8830 Jul 25 11:23	12° © 11'17	27°49'20		8831 Jul 12 22:18	0 \circ \odot	
	8830 Aug 08 12:47	$0^{\circ}\Omega$			8831 Aug 01 21:58	0 $^{\circ}\Omega$	
	8830 Aug 25 11:17	0° m		morning set	8831 Aug 10 22:32	17° Ω 08′03	
morning set	8830 Aug 26 23:34	3° Mp 06'28		asc. node	8831 Aug 14 12:36	24° Ω 33'09	
asc. node	8830 Aug 27 15:39	4° Mp 30'23	1 21706 111	max. Earth dist.	8831 Aug 16 06:27	28° Ω 15'53	1.32270 AU
max. Earth dist.	8830 Sep 02 01:19	16° Mp 09'09	1.31706 AU		8831 Aug 17 01:48	0° m)	
superior conj	8830 Sep 03 05:12	18° m 43'01	1°02'18	superior conj	8831 Aug 18 13:53	3° m)15'39	0°40'03
minimum elong	8830 Sep 03 03:00	18° Mp 30'50	1°01'52	minimum elong	8831 Aug 18 12:10	3°M)06'16	0°39'36
8	8830 Sep 08 08:00	0∘ ⊽		evening rise	8831 Aug 25 10:35	18° m) 12'21	
evening rise	8830 Sep 09 23:03	3° Ω 31'06		8	8831 Aug 31 04:23	0∘ <u>v</u>	
	8830 Sep 23 23:13	0° M		desc. node	8831 Sep 18 00:22	26° ≏ 41'58	
desc. node	8830 Oct 01 03:15	10°M14'52		evening max el	8831 Sep 18 14:53	27° ≏ 17'37	23°54'01
evening max el	8830 Oct 07 02:43		25°28'03		8831 Sep 21 17:55	0°M₊	
retrograde	8830 Oct 21 00:36	23°M54'13		retrograde	8831 Oct 02 06:19	4° ™ 07'07	
evening set	8830 Oct 27 00:01	22°M31'49	0.55650 433	evening set	8831 Oct 06 22:18	3°M19'28	0.55050 :==
min. Earth dist.	8830 Oct 31 14:55		0.57650 AU	min. Earth dist.	8831 Oct 13 01:23	0°M20'33	0.55950 AU
inferior conj	8830 Nov 03 14:32	17°M50'32 17°M40'20		inferior comi	8831 Oct 13 15:06	30° ₹죠 29° 죠 01'14	5027115
minimum elong morning rise	8830 Nov 03 20:27 8830 Nov 11 19:13	17°11640'20 13°11634'21	3 13 30	inferior conj minimum elong	8831 Oct 15 05:47 8831 Oct 15 05:45	29° 2 01'14 29° 2 01'17	
direct	8830 Nov 14 03:50	13°M17'28		morning rise	8831 Oct 13 03.43	29 2 01 17 25° 2 04'40	0 0 1 0 0
morning max el	8830 Nov 22 23:04	17°MJ31'03	18°55'30	direct	8831 Oct 26 09:30	24° Ω 45'15	
asc. node	8830 Nov 23 15:26	18°ML11'47		morning max el	8831 Nov 05 15:02	29° £ 34'33	20°00'32
				Č			

	8831 Nov 06 01:36	0°M		inferior conj	8832 Sep 24 04:08	9° 亞 28'39	5°10'06
asc. node	8831 Nov 10 12:24	5°M14'29		minimum elong	*	9° £ 2839'08	5°08'50
morning set	8831 Nov 10 12:24 8831 Nov 23 16:12	28°M36'56		morning rise	8832 Sep 23 20:41 8832 Oct 02 14:51	9 = 3908 5° Ω 41'06	3 08 30
morning set	8831 Nov 24 08:31	28 II L 30 30 0° ⊼ 1		direct	8832 Oct 02 14.31 8832 Oct 05 22:59	5° £ 16'12	
	0031 NOV 24 00.31	0 🗴		morning max el	8832 Oct 03 22.39 8832 Oct 17 17:49	10° £ 48'37	2102721
superior coni	8831 Dec 01 09:23	14° √ 19'12	1920/02	asc. node	8832 Oct 17 17.49 8832 Oct 27 09:22	10 ≗ 48 37 23° £ 11'57	21 2/21
superior conj				asc. node		0°M	
minimum elong	8831 Dec 01 11:46	14° 🖈 31'05	1°29'02	. ,	8832 Oct 31 07:32		
max. Earth dist.	8831 Dec 07 03:55	25° ₹ 32'58	1.36996 AU	morning set	8832 Nov 07 01:20	13°M22'27	
	8831 Dec 09 13:20	0°る			00000	200 m 20122	1020121
evening rise	8831 Dec 10 22:30	2° ප 30'46		superior conj	8832 Nov 14 07:12	28°M36'23	1°38'31
desc. node	8831 Dec 14 23:09	9° ට 35'58		minimum elong	8832 Nov 14 08:19	28°M42'11	1°38'40
	8831 Dec 27 18:56	0° ≈			8832 Nov 14 23:18	0° ∡	
evening max el	8832 Jan 15 13:16	23° ≈ 38′29	25°39'18	max. Earth dist.	8832 Nov 18 15:10	7° ₹ 27'22	1.35075 AU
	8832 Jan 24 08:51	0° ∀		evening rise	8832 Nov 22 19:29	15° ∡ 35'55	
retrograde	8832 Jan 27 21:28	0°) 43′10		desc. node	8832 Nov 30 20:10	0° る 01'29	
	8832 Jan 31 04:11	30°R≈			8832 Nov 30 19:49	0°ಕ	
evening set	8832 Feb 02 20:36	28° ≈ 16′04			8832 Dec 21 08:40	0° ≈	
asc. node	8832 Feb 06 11:35	24° ≈ 26′57		evening max el	8832 Dec 28 02:35	7° ≈ 22'38	26°39'02
min. Earth dist.	8832 Feb 07 04:43	23° ≈ 33'44	0.67324 AU	retrograde	8833 Jan 10 03:22	14° ≈ 40′09	
inferior conj	8832 Feb 08 13:38	21° ≈ 48'58	0°40'57	evening set	8833 Jan 16 14:24	12° ≈ 05'51	
minimum elong	8832 Feb 08 12:37	21° ≈ 52'11	0°40'43	min. Earth dist.	8833 Jan 20 16:18	7° ≈ 58'13	0.66193 AU
morning rise	8832 Feb 14 05:05	15° ≈ 57'03		inferior conj	8833 Jan 22 12:54	5° ≈ 46′01	-0°16'30
direct	8832 Feb 17 13:27	14° ≈ 52'41		minimum elong	8833 Jan 22 13:21	5° ≈ 44'41	0°16'06
morning max el	8832 Feb 24 10:43	18° ≈ 39'10	19°03'40	asc. node	8833 Jan 23 08:41	4° ≈ 47'47	
	8832 Mar 04 09:06	0° ∀		morning rise	8833 Jan 28 13:16	0°≈04'55	
greatest brilliancy	8832 Mar 09 01:25	6° 升 57'26	-0.8m		8833 Jan 28 17:02	30°R₹	
desc. node	8832 Mar 11 22:53	11°) 22'31		direct	8833 Jan 31 11:23	29° る 17'27	
morning set	8832 Mar 18 12:30	21°) €31'09			8833 Feb 03 07:06	0° ≈	
Ü	8832 Mar 23 23:30	$_{0}$ $^{\circ}$ γ		morning max el	8833 Feb 06 23:24	2°≈46'20	18°21'18
max. Earth dist.	8832 Apr 01 13:06	13° Y 23'23	1.45203 AU		8833 Feb 25 17:39	0°) €	
man. Darun dige.	003 2 14p1 01 13.00	15 , 25 25	1.10203110	morning set	8833 Feb 26 16:23	1° ¥ 30′50	
superior conj	8832 Apr 04 02:18	17° Ƴ 24'24	-2°04'56	desc. node	8833 Feb 26 19:46	1°) (3000	
minimum elong	8832 Apr 03 20:11	17° Υ 00'15		dese. Hode	0033100 20 17.40	1 /(4421	
minimum ciong	8832 Apr 11 23:56	0°8	2 04 42	superior conj	8833 Mar 14 07:30	26°) 13′56	-1°37'53
evening rise	8832 Apr 18 21:00	11° 8 09'56		minimum elong	8833 Mar 13 21:53	25° H 36'17	
evening rise	8832 Apr 30 12:47	0°II		max. Earth dist.	8833 Mar 15 08:32	27° H 51'56	1.45560 AU
aga mada		о п 5°П42'06		max. Earth dist.		27 χ 3136	1.43300 AU
asc. node	8832 May 04 10:18		10007124		8833 Mar 16 17:17	0 γ 21°Υ13'06	
evening max el	8832 May 08 17:56	10° I I53'52	18°27'34	evening rise	8833 Mar 30 06:30		
retrograde	8832 May 15 04:48	14° Ⅱ 23'16		4 41 311	8833 Apr 04 20:44	0°8	0.0
evening set	8832 May 18 07:39	13° Ⅱ 29'03	201.4120	greatest brilliancy	8833 Apr 09 16:31	7° 8 30'24	-0.8m
inferior conj	8832 May 24 02:13	7° Ⅱ 58′20		asc. node	8833 Apr 21 07:24	23° 8 36'37	
minimum elong	8832 May 24 03:32	7° ∏ 54'27		evening max el	8833 Apr 22 03:38	24° 8 29'45	19°04'33
min. Earth dist.	8832 May 26 07:02		0.64678 AU	retrograde	8833 Apr 29 00:31	28° 8 20'40	
morning rise	8832 May 29 22:29	1° Ⅱ 41'54		evening set	8833 May 02 11:05	27° 8 11'50	
	8832 Jun 01 11:10	30° ₹ 8		inferior conj	8833 May 07 23:03	21° 8 25'10	
direct	8832 Jun 05 14:08	28° 8 58'06		minimum elong	8833 May 07 23:04	21° 8 25'07	
desc. node	8832 Jun 07 22:41	29° 8 16'17		min. Earth dist.	8833 May 09 12:33	19° 8 25'24	0.66290 AU
	8832 Jun 10 00:42	Π °0		morning rise	8833 May 13 10:35	15° 8 06'20	
morning max el	8832 Jun 19 04:00	6° Ⅱ 55'30	27°21'04	direct	8833 May 19 18:16	12° 8 21'03	
	8832 Jul 06 21:28	0		desc. node	8833 May 25 19:41	14° 8 21'20	
	8832 Jul 24 04:18	0 $^{\circ}\Omega$		morning max el	8833 Jun 01 14:34	20° 8 00'10	26°20'30
morning set	8832 Jul 24 12:45	0° Ω 41'11			8833 Jun 10 03:48	Π $^{\circ}0$	
max. Earth dist.	8832 Jul 29 03:41	9° Ω 58'13	1.33322 AU		8833 Jun 30 00:04	0°€	
asc. node	8832 Jul 31 09:33	14° Ω 38'47		morning set	8833 Jul 07 14:52	13° © 37'31	
				max. Earth dist.	8833 Jul 11 14:29	21° © 15'08	1.34857 AU
superior conj	8832 Aug 01 18:01	17° Ω 30′20	0°13'36		8833 Jul 15 23:24	$\mathfrak{O}^{\circ}\mathfrak{O}$	
minimum elong	8832 Aug 01 17:20	17° Ω 26'44	0°13'17				
behind sun begin	8832 Aug 01 14:13	17° Ω 10′13		superior conj	8833 Jul 16 15:14	1° Ω 20′57	-0°16'19
behind sun end	8832 Aug 01 20:27	17° Ω 43'15		minimum elong	8833 Jul 16 16:10	1° Ω 25'46	0°16'20
	8832 Aug 07 14:00	0° m		asc. node	8833 Jul 18 06:31	4° Ω 43'40	
evening rise	8832 Aug 08 21:43	2° m 48'42		evening rise	8833 Jul 24 06:31	17° Ω 14'45	
& .	8832 Aug 23 21:03	0∘ ʊ		5 -	8833 Jul 30 16:28	0° m	
evening max el	8832 Aug 30 03:29	7° ≏ 29'07	22°14'39	evening max el	8833 Aug 12 01:21	18° m) 02'58	20°45'15
desc. node	8832 Sep 03 21:29	11° ⊆ 19'17		desc. node	8833 Aug 21 18:38	23° m 35'50	
retrograde	8832 Sep 11 23:54	13° ⊆ 53'04		retrograde	8833 Aug 23 12:06	23° m 43'23	
evening set	8832 Sep 15 04:11	13° ⊆ 30'42		evening set	8833 Aug 25 15:29	23°m/32'17	
min. Earth dist.	8832 Sep 23 09:15		0.54887 AU	inferior conj	8833 Sep 03 20:29	19° m 35'35	-3°48'14
Zarui dist.	3032 30p 23 07.13	, —33 11	5.0 .507 710	or conj	5055 5 0 p 05 20.27	., ng 33 33	5 .511

minimum elong	8833 Sep 03 11:03	19° m 49'03	3°45'24	inferior conj	8834 Aug 14 21:35	29° Ω 55'45	-1°54'57
min. Earth dist.	8833 Sep 04 18:08	19° m 04'38	0.54710 AU	minimum elong	8834 Aug 14 16:22	0° ™ 04'01	1°53'06
morning rise	8833 Sep 12 06:36	15° m 36'49			8834 Aug 14 18:54	30° R Ω	
direct	8833 Sep 16 06:54	15° m 02'21		min. Earth dist.	8834 Aug 17 06:09	28° Ω 26′20	0.55494 AU
morning max el	8833 Sep 29 10:05	21° m/20'48	23°09'59	morning rise	8834 Aug 23 03:36	25° Ω 26'44	
C	8833 Oct 06 20:19	0∘ ⊽		direct	8834 Aug 27 23:09	24° Ω 34'51	
asc. node	8833 Oct 14 06:19	11° ≙ 50'48			8834 Sep 09 04:25	0° m/	
morning set	8833 Oct 22 12:37	28° £ 11'50		morning max el	8834 Sep 10 22:20	1° m/34'06	24°55'28
morning out	8833 Oct 23 08:58	0°M		morning man vi	8834 Sep 30 14:34	0∘ ⊽	2.0020
	0033 001 23 00.30	0 110		asc. node	8834 Oct 01 03:15	° - 1° - 00'49	
aumorior comi	0022 Oat 20 11.55	13°ML12'03	1940/50		8834 Oct 07 00:21	13° ⊆ 00'10	
superior conj	8833 Oct 29 11:55			morning set	8834 OCt 07 00.21	13 ==00 10	
minimum elong	8833 Oct 29 11:46	13°M11'14			00040 . 10 01 00	250 0 50122	100 511 1
max. Earth dist.	8833 Nov 01 10:07	19°M25'06	1.33523 AU	superior conj	8834 Oct 13 21:03		1°37'11
evening rise	8833 Nov 06 05:52	29°M16'24		minimum elong	8834 Oct 13 19:50	27° £ 51'55	1°37'14
	8833 Nov 06 14:42	0° √			8834 Oct 14 19:14	0°M₊	
desc. node	8833 Nov 17 17:12	20° √ 10'19		max. Earth dist.	8834 Oct 15 12:50	1°M36'00	1.32421 AU
	8833 Nov 23 22:31	0°ರ		evening rise	8834 Oct 21 02:20	13°M23'36	
evening max el	8833 Dec 10 15:23	20°る52'17	27°17'57		8834 Oct 29 17:47	0° ∡ ¹	
retrograde	8833 Dec 24 03:20	28° る 13'29		desc. node	8834 Nov 04 14:18	9° ∡ 755'15	
evening set	8833 Dec 30 23:51	25° පි 38'10			8834 Nov 19 06:37	8°0	
min. Earth dist.	8834 Jan 03 20:22	22°る03'57	0.64709 AU	evening max el	8834 Nov 23 02:12	3° る 56'07	27°29'21
inferior conj	8834 Jan 06 04:40	19° る 31'27	-1°21'06	retrograde	8834 Dec 06 20:37	11° る 14'02	
minimum elong	8834 Jan 06 07:08	19° る 24'45		evening set	8834 Dec 13 22:12	8° පි 46'21	
asc. node	8834 Jan 10 05:45	15° る 34'38	1 17 30	min. Earth dist.	8834 Dec 17 15:09	5° ਰ 41'40	0.62914 AU
morning rise	8834 Jan 12 15:59	13 さ 34 50		inferior conj	8834 Dec 20 10:08	2°る58'51	
•				3			
direct	8834 Jan 15 05:40	13° る 29'30	17055142	minimum elong	8834 Dec 20 14:59	2°る47'04	2°28'51
morning max el	8834 Jan 21 15:58	16° る 51'49	17°55'43		8834 Dec 23 16:53	30°R.✓	
	8834 Jan 31 05:39	0° ≈		morning rise	8834 Dec 27 09:52	27° ∡ °47'31 −	
morning set	8834 Feb 08 01:35	12°≈56'53		asc. node	8834 Dec 28 02:48	27° ∡ ³34'41	
desc. node	8834 Feb 13 16:39	22° ≈ 17′20		direct	8834 Dec 29 17:27	27° ₹ 22'29	
	8834 Feb 18 10:03	0° ℋ			8835 Jan 04 12:52	0° ප	
				morning max el	8835 Jan 05 09:20	0°る47'42	17°47'35
superior conj	8834 Feb 21 20:45	5° ₩ 32'15	-0°57'07	morning set	8835 Jan 21 11:32	25° ⋜ 34'16	
minimum elong	8834 Feb 21 14:14	5° ₩ 06'14	0°56'09		8835 Jan 24 00:16	0° ≈	
max. Earth dist.	8834 Feb 26 04:01	12° ¥ 21'39	1.45167 AU	desc. node	8835 Jan 31 13:34	12° ≈ 57'44	
evening rise	8834 Mar 09 22:16	0° Ƴ 38'16					
8 21	8834 Mar 09 12:19	0° Υ		superior conj	8835 Feb 02 08:11	15° ≈ 55'56	-0°13'04
greatest brilliancy	8834 Mar 24 13:33	22° Υ 45'23	-0.6m	minimum elong	8835 Feb 02 06:51	15°≈50'26	
greatest offinality	8834 Mar 29 16:03	0° 8	-0.0111	behind sun begin	8835 Feb 02 01:08	15°≈26'37	0 12 41
avanina may al	8834 Apr 05 08:29	8° 8 08'26	19°57'42	•	8835 Feb 02 01:08 8835 Feb 02 12:34	15 ≈ 20 57 16° ≈ 14'13	
evening max el			19 3/42	behind sun end			1 44004 411
asc. node	8834 Apr 08 04:31	10° 8 38'45		max. Earth dist.	8835 Feb 08 21:07	26°≈36'54	1.44084 AU
retrograde	8834 Apr 12 22:48	12° 8 31'24			8835 Feb 11 00:01	0° ∀	
evening set	8834 Apr 16 17:51	11° 8 07'36		evening rise	8835 Feb 17 09:51	10° 米 01′28	
inferior conj	8834 Apr 22 02:12	5° 8 06'54			8835 Mar 02 16:57	0° Υ	
minimum elong	8834 Apr 22 01:07	5° 8 10'32	3°15'47	evening max el	8835 Mar 19 07:50	21° Ƴ 48'30	21°04'19
min. Earth dist.	8834 Apr 23 01:08	3° 8 49'35	0.67461 AU	asc. node	8835 Mar 26 01:38	26° Ƴ 33'52	
	8834 Apr 26 03:32	30° ŖƳ		retrograde	8835 Mar 27 21:17	26° Ƴ 50'36	
morning rise	8834 Apr 27 08:07	28° Y 49'02		evening set	8835 Apr 01 01:59	25° Ƴ 11'32	
direct	8834 May 03 04:25	26° Ƴ 12'32		inferior conj	8835 Apr 06 09:09	18° Ƴ 59'00	2°58'39
	8834 May 11 10:12	0°8		minimum elong	8835 Apr 06 07:19	19° Ƴ 05'22	2°58'15
desc. node	8834 May 12 16:38	1° 8 05'11		min. Earth dist.	8835 Apr 06 18:38	18° Ƴ 26′07	0.68188 AU
morning max el	8834 May 15 00:14	3° 8 18'09	25°00'40	morning rise	8835 Apr 11 12:25	12° Ƴ 44'16	
	8834 Jun 04 08:50	0°II		direct	8835 Apr 16 19:30	10° Y 24'07	
morning set	8834 Jun 20 00:30	25° I I45'38		morning max el	8835 Apr 27 09:28	16° Υ 42'38	23°31'41
morning set		23 π 43 38		-	-	10 γ 42 38 19° Υ 00'53	23 31 41
To all the	8834 Jun 22 08:56		1 26012 411	desc. node	8835 Apr 29 13:34		
max. Earth dist.	8834 Jun 23 15:16	2*2019*16	1.36812 AU		8835 May 08 09:11	0° B	
	0004 7		00.40**		8835 May 28 09:25	0°II	
superior conj	8834 Jun 30 02:37	14° © 40'28		morning set	8835 Jun 01 12:09	6° Ⅱ 50′12	
minimum elong	8834 Jun 30 05:36	14°955'10	0°47'57	max. Earth dist.	8835 Jun 05 11:12	13° Ⅱ 39′03	1.39036 AU
asc. node	8834 Jul 05 03:31	24°9544'14					
	8834 Jul 07 17:59	$0^{\circ}\Omega$		superior conj	8835 Jun 13 00:23	27° Ⅱ 18'57	-1°20'05
evening rise	8834 Jul 08 10:43	1° £ 24′21		minimum elong	8835 Jun 13 05:24	27° ∏ 42′25	1°19'34
evening max el	8834 Jul 25 12:45	29° Ω 20'57	19°34'24	-	8835 Jun 14 10:40	0ಂತಾ	
-	0034 Jul 23 12.43						
	8834 Jul 26 05:06	0° m)		evening rise	8835 Jun 22 07:24	15° © 09'03	
retrograde	8834 Jul 26 05:06			evening rise asc. node	8835 Jun 22 07:24 8835 Jun 22 00:33	15°909'03 14°935'47	
retrograde	8834 Jul 26 05:06 8834 Aug 04 06:31	0° ሙ 4° ሙ 09'44		=	8835 Jun 22 00:33	14° © 35'47	
retrograde evening set desc. node	8834 Jul 26 05:06	0° m ⊅		=			18°44'23

retrograde	8835 Jul 16 17:11	15° Ω 27'40		asc. node	8836 Jun 07 21:36	4°9514'00	
evening set	8835 Jul 18 17:26	15°Ω13'53		evening max el	8836 Jun 20 20:02	24°901'33	18°14'52
inferior conj	8835 Jul 26 17:38	10°Ω51'54	-0°03'37	retrograde	8836 Jun 27 23:11	27° © 36'58	
minimum elong	8835 Jul 26 17:29	10° Ω 52'11	0°03'45	evening set	8836 Jun 30 06:43	27°©15'00	
transit middle	8835 Jul 26 17:29	10° Ω 52'11	0°03'45	inferior conj	8836 Jul 07 11:28	22° © 32'12	1°24'57
transit begin	8835 Jul 26 13:54	10° Ω 58'46		minimum elong	8836 Jul 07 14:01	22°526'42	1°23'53
transit end	8835 Jul 26 21:03	10° Ω 45'35		min. Earth dist.	8836 Jul 10 20:35	19° © 38'36	0.59181 AU
desc. node	8835 Jul 26 12:53	11° Ω 00′39		desc. node	8836 Jul 12 09:58	18° © 25'50	
min. Earth dist.	8835 Jul 29 22:21	8° Ω 31'33	0.57088 AU	morning rise	8836 Jul 14 18:09	16° © 53'45	
morning rise	8835 Aug 03 14:05	5° Ω 45'54		direct	8836 Jul 21 01:31	15° © 04'58	
direct	8835 Aug 09 05:37	4° Ω 27'50		morning max el	8836 Aug 04 10:23	22° © 53'29	27°29'50
morning max el	8835 Aug 23 13:06	11° Ω 56'43	26°27'03		8836 Aug 10 18:16	$0^{\circ}\Omega$	
	8835 Sep 06 14:22	0° m p			8836 Aug 29 16:22	0° m p	
asc. node	8835 Sep 18 00:12	20° Mp 33'17		asc. node	8836 Sep 03 21:09	10°₩21'52	
morning set	8835 Sep 21 10:50	27° Mp 42'01		morning set	8836 Sep 04 18:25	12°Mp12'54	
	8835 Sep 22 12:37	0∘ ⊽					
				superior conj	8836 Sep 11 20:09	27° m 36'07	1°13'01
superior conj	8835 Sep 28 08:25	12° ≙ 48′28	1°27'44	minimum elong	8836 Sep 11 17:55	27° m 23'40	1°12'39
minimum elong	8835 Sep 28 06:29	12° £ 37'45	1°27'34	max. Earth dist.	8836 Sep 11 07:07	26° Mp 23′47	1.31606 AU
max. Earth dist.	8835 Sep 28 20:58	13° ≏ 58'04	1.31783 AU		8836 Sep 12 22:04	0。 ರ	
evening rise	8835 Oct 05 05:54	27° £ 48'48		evening rise	8836 Sep 18 14:11	12° ≏ 25'12	
	8835 Oct 06 07:01	0° M			8836 Sep 27 10:15	0°M	
desc. node	8835 Oct 22 11:27	29°M05'57		desc. node	8836 Oct 08 08:35	17°M29'00	
	8835 Oct 23 01:52	0°⊀		evening max el	8836 Oct 17 07:51	27°M56'43	26°13'07
evening max el	8835 Nov 05 08:37	16° ≯ 21'07	27°08'12		8836 Oct 19 15:43	0°⊀	
retrograde	8835 Nov 19 05:59	23° ≯ 32'08		retrograde	8836 Oct 31 05:50	5° ∡ 01'04	
evening set	8835 Nov 26 05:48	21° ≯ 22'24		evening set	8836 Nov 06 18:01	3° х 19′03	
min. Earth dist.	8835 Nov 29 23:20	18° ∡ ³39′24	0.60893 AU	min. Earth dist.	8836 Nov 10 20:54	0° ≯ 44'31	0.58801 AU
inferior conj	8835 Dec 03 02:03	15° ∡ 759′27			8836 Nov 11 21:18	30°₽ M	
minimum elong	8835 Dec 03 08:58	15° ∡ ¹44'37	3°39'34	inferior conj	8836 Nov 14 00:51	28°M23'18	
morning rise	8835 Dec 10 14:31	11° ∡ 707'39		minimum elong	8836 Nov 14 08:08	28°M09'42	4°44'28
direct	8835 Dec 12 19:11	10° 🖈 48'13		morning rise	8836 Nov 22 00:36	23°M53'54	
asc. node	8835 Dec 14 23:50	11°×708'25	15055150	direct	8836 Nov 24 06:29	23°M36'52	
morning max el	8835 Dec 20 00:13	14° ₹ 25'00	17°57'59	asc. node	8836 Nov 30 20:51	26°M14'08	10020124
. ,	8835 Dec 30 16:04	0°る		morning max el	8836 Dec 02 09:01	27°M33'56	18°28'24
morning set	8836 Jan 04 15:42	9° る 03'15			8836 Dec 04 14:36	0°⊀ 23°⊀06'44	
	9926 I 14 21.06	270	0°26'25	morning set	8836 Dec 18 08:31	23°×'0644 0°る	
superior conj minimum elong	8836 Jan 14 21:06 8836 Jan 14 23:15	27°る32'32 27°る41'55			8836 Dec 21 22:27	0-0	
minimum eiong	8836 Jan 16 06:56	27 3 41 33 0° ≈	0 20 18	superior conj	8836 Dec 27 08:07	10° ප 11'46	0°57'41
desc. node	8836 Jan 18 10:33	0 ≈ 3°≈41'59		minimum elong	8836 Dec 27 08:07	10 311 40 10° る 27'05	0°57'27
max. Earth dist.	8836 Jan 22 10:28	10°≈24'52	1.42427 AU	max. Earth dist.	8837 Jan 03 19:19	10 ප 2705 23° පි 33'25	1.40385 AU
evening rise	8836 Jan 28 08:21	10 ≈2432 19°≈59'24	1.4242 / AU	desc. node	8837 Jan 04 07:31	24°る26'02	1.40303 AC
evening rise	8836 Feb 03 18:58	0° ∀		desc. Hode	8837 Jan 07 14:25	0°≈	
	8836 Feb 25 04:20	0° Υ		evening rise	8837 Jan 08 02:38	0°≈50'51	
evening max el	8836 Mar 01 02:17	5° Υ 31'01	22°20'18	evening rise	8837 Jan 27 04:35	0° ∀	
retrograde	8836 Mar 10 18:15	11° Υ 14'30		evening max el	8837 Feb 11 17:09	19° ₩ 15'48	23°40'26
asc. node	8836 Mar 11 22:45	11° Υ 07'25		retrograde	8837 Feb 22 12:19	25°) 37'57	
evening set	8836 Mar 15 09:50	9° Y 20'16		asc. node	8837 Feb 26 19:52	24°) €08'10	
inferior conj	8836 Mar 20 17:50	2° Y 58'34	2°31'27	evening set	8837 Feb 27 15:50	23° ¥ 29'12	
minimum elong	8836 Mar 20 15:37	3° Y 06'16	2°30'52	min. Earth dist.	8837 Mar 04 11:26	17° ¥ 52'34	0.68342 AU
min. Earth dist.	8836 Mar 20 14:49	3° Y 09'02	0.68476 AU	inferior conj	8837 Mar 05 02:18	17° ℋ 01'46	1°55'13
	8836 Mar 22 22:37	30° ₹ ₩		minimum elong	8837 Mar 05 00:09	17° ₩ 09'06	1°54'36
morning rise	8836 Mar 25 21:15	26°) 48′29		morning rise	8837 Mar 10 08:28	10° ¥ 57'36	
direct	8836 Mar 30 14:28	24°)(49'16		direct	8837 Mar 14 12:02	9°) €20'50	
	8836 Apr 08 15:09	0 ° $\mathbf{\gamma}$		morning max el	8837 Mar 22 15:22	13°) 59′34	20°42'53
morning max el	8836 Apr 08 21:21	0° Υ 15′25	22°03'15	desc. node	8837 Apr 02 07:23	27°) (14′29	
desc. node	8836 Apr 15 10:29	7° Ƴ 48'57			8837 Apr 04 06:20	0 ° Υ	
	8836 May 01 04:14	9° 8		morning set	8837 Apr 21 04:54	25° Y 22'55	
morning set	8836 May 11 21:10	16° 8 40'16			8837 Apr 24 03:42	9° 8	
max. Earth dist.	8836 May 17 10:10	25° 8 46'10	1.41269 AU	max. Earth dist.	8837 Apr 29 16:02	8° 8 48'06	1.43223 AU
	8836 May 19 22:18	$\Pi^{\circ}0$					
				superior conj	8837 May 06 09:07	19° 8 51'35	
superior conj	8836 May 25 04:06	9° Ⅱ 06'15	-1°48'11	minimum elong	8837 May 06 13:09	20° 8 08'31	2°07'26
minimum elong	8836 May 25 10:05	9° Ⅱ 32'43	1°47'48		8837 May 12 07:46	$\Pi^{\circ}0$	
evening rise	8836 Jun 04 17:04	28° Ⅱ 20'17		evening rise	8837 May 18 11:18	10° Ⅱ 47'06	
	8836 Jun 05 14:33	0ಂತಾ		asc. node	8837 May 25 18:39	23° Ⅱ 32'57	

	8837 May 29 18:49	0° ©		evening rise	8838 Apr 30 09:26	22° 8 19'54	
evening max el	8837 Jun 04 08:18	7° © 06'00	18°05'04	overmig rise	8838 May 04 22:50	0°II	
retrograde	8837 Jun 10 21:17	10°528'04	10 00 0 .	asc. node	8838 May 12 15:42	12° ∏ 26'14	
evening set	8837 Jun 13 12:22	9° © 55'05		evening max el	8838 May 18 21:43	20° ∏ 28′10	18°14'07
inferior conj	8837 Jun 20 00:41	4°952'23	2°26'00	retrograde	8838 May 25 06:51	23° I [51'17	
minimum elong	8837 Jun 20 03:37	4°9345'06	2°25'03	evening set	8838 May 28 05:18	23° I 105'20	
min. Earth dist.	8837 Jun 23 03:00	1° © 48'46	0.61431 AU	inferior conj	8838 Jun 03 05:14	17° Ⅱ 44'30	3°02'36
	8837 Jun 25 04:06	30°R Ⅱ		minimum elong	8838 Jun 03 07:17	17° Ⅲ 38'47	3°02'04
morning rise	8837 Jun 26 16:35	28° Ⅲ 51'32		min. Earth dist.	8838 Jun 05 18:44	14° Ⅲ 53′09	0.63572 AU
desc. node	8837 Jun 29 07:01	27° Ⅲ 25'01		morning rise	8838 Jun 09 07:53	11° Ⅲ 31'21	
direct	8837 Jul 03 08:48	26° ∏ 34′06		direct	8838 Jun 16 01:37	8° Ⅱ 53'35	
	8837 Jul 12 06:56	0°ಲಾ		desc. node	8838 Jun 16 04:02	8° Ⅱ 53'37	
morning max el	8837 Jul 17 14:27	4° © 34'32	27°55'37	morning max el	8838 Jun 29 23:03	16° Ⅲ 56′21	27°43'25
C	8837 Aug 05 13:16	$0^{\circ}\Omega$		C	8838 Jul 10 18:51	$0 \circ \mathfrak{S}$	
morning set	8837 Aug 19 21:12	26° Ω 27'28			8838 Jul 29 08:15	$0^{\circ}\Omega$	
asc. node	8837 Aug 21 18:07	0° Mp 21′09		morning set	8838 Aug 03 16:49	10° Ω 18'29	
	8837 Aug 21 14:05	o° mp		max. Earth dist.	8838 Aug 08 17:33	20° Ω 39'10	1.32652 AU
max. Earth dist.	8837 Aug 25 15:21	8° m 41'38	1.31889 AU	asc. node	8838 Aug 08 15:03	20° Ω 25'54	
superior conj	8837 Aug 27 06:30	12° m) 16'07	0°53'25	superior conj	8838 Aug 11 13:29	26° Ω 42'02	0°29'18
minimum elong	8837 Aug 27 04:26	12° Mp 04'45	0°52'56	minimum elong	8838 Aug 11 12:08	26° Ω 34'45	0°28'53
evening rise	8837 Sep 03 01:05	27° m 06'37			8838 Aug 13 02:04	0° m/y	
C	8837 Sep 04 09:40	0∘ <mark>⊽</mark>		evening rise	8838 Aug 18 12:40	11° Mp 46'34	
	8837 Sep 21 11:01	o° m		Č	8838 Aug 27 17:48	0∘ ⊽	
desc. node	8837 Sep 25 05:42	4°M45'56		evening max el	8838 Sep 10 10:01	18° ≏ 57'14	23°11'24
evening max el	8837 Sep 28 22:58	8°M42'45	24°49'46	desc. node	8838 Sep 12 02:50	20° ≏ 30'36	
retrograde	8837 Oct 12 18:52	15° M 40'27		retrograde	8838 Sep 23 19:42	25° ≏ 38'59	
evening set	8837 Oct 18 06:31	14°M32'52		evening set	8838 Sep 27 19:57	25° ≏ 03'51	
min. Earth dist.	8837 Oct 23 10:13	11° M 48'20	0.56866 AU	min. Earth dist.	8838 Oct 04 19:17	21° ≏ 50'56	0.55395 AU
inferior conj	8837 Oct 26 03:47	10°M02'08	-5°29'44	inferior conj	8838 Oct 06 11:01	20° ჲ 53'06	-5°33'00
minimum elong	8837 Oct 26 07:42	9°M55'46	5°29'14	minimum elong	8838 Oct 06 07:37	20° ≏ 58'03	5°32'42
morning rise	8837 Nov 03 11:07	5°M55'27		morning rise	8838 Oct 14 21:18	17° ≏ 02'24	
direct	8837 Nov 05 23:16	5° ™ 37'52		direct	8838 Oct 17 20:50	16° ≙ 41'14	
morning max el	8837 Nov 15 08:09	10°M05'00	19°20'29	morning max el	8838 Oct 28 18:40	21° ≏ 48'26	20°35'02
asc. node	8837 Nov 17 17:51	12°M39'17		asc. node	8838 Nov 04 14:50	0° ጤ 07'14	
	8837 Nov 28 13:32	0° ∡ 7			8838 Nov 04 12:52	0° M	
morning set	8837 Dec 02 09:55	7° ∡ ³33'21		morning set	8838 Nov 16 16:53	22°M13'35	
					8838 Nov 20 10:54	0° ∡ ¹	
superior conj	8837 Dec 10 12:12	23° х 39'44	1°20'01				
minimum elong	8837 Dec 10 15:09	23° х 54′07	1°19'55	superior conj	8838 Nov 24 04:37	7° ҂ ¹42'03	1°33'57
	8837 Dec 13 19:30	8°0		minimum elong	8838 Nov 24 06:29	7° ∡ 751'31	1°34'02
max. Earth dist.	8837 Dec 17 01:05	5° る 59'51	1.38205 AU	max. Earth dist.	8838 Nov 29 08:30	17° ∡ 757'41	1.36135 AU
evening rise	8837 Dec 20 18:46	12° る 40'11		evening rise	8838 Dec 03 06:17	25° 渘 ¹20'27	
desc. node	8837 Dec 22 04:32	15° る 06'39			8838 Dec 05 19:57	0°రె	
	8837 Dec 31 06:35	0° ≈		desc. node	8838 Dec 09 01:33	5° る 38'58	
	8838 Jan 22 08:16	0° ∀			8838 Dec 24 19:23	0° ≈	
evening max el	8838 Jan 25 06:22	3°) €03'12	24°58'15	evening max el	8839 Jan 07 19:30	16° ≈ 50′13	26°06'48
retrograde	8838 Feb 06 02:29	9° ₩ 56'11		retrograde	8839 Jan 20 11:46	24° ≈ 02'33	
evening set	8838 Feb 11 18:28	7°) 34'44		evening set	8839 Jan 26 16:02	21° ≈ 31'43	
asc. node	8838 Feb 13 16:58	5°) 40′29		min. Earth dist.	8839 Jan 30 21:21	17° ≈ 04'05	0.66882 AU
min. Earth dist.	8838 Feb 16 06:22	2°) 32′36	0.67805 AU	asc. node	8839 Jan 31 14:03	16° ≈ 12'38	
inferior conj	8838 Feb 17 08:45	1° ∺ 05'50	1°10'29	inferior conj	8839 Feb 01 11:15	15° ≈ 06'41	0°17'32
minimum elong	8838 Feb 17 07:10	1° ∺ 11′03	1°10'01	minimum elong	8839 Feb 01 10:47	15° ≈ 08'07	0°17'31
	8838 Feb 18 04:55	30° ₹ ≈		morning rise	8839 Feb 07 06:13	9° ≈ 19'01	
morning rise	8838 Feb 22 20:08	25° ≈ 09'01		direct	8839 Feb 10 09:54	8° ≈ 22'25	
direct	8838 Feb 26 11:03	23° ≈ 53'41		morning max el	8839 Feb 17 02:30	12° ≈ 00′25	18°43'35
morning max el	8838 Mar 05 17:16	27° ≈ 55'53	19°35'29		8839 Mar 02 07:49	0° ∀	
	8838 Mar 07 15:54	0°) €		desc. node	8839 Mar 07 01:11	7°) €20'35	
greatest brilliancy	8838 Mar 18 10:19	14°) 32′03	-0.7m	morning set	8839 Mar 10 14:51	12° ¥ 55'59	
desc. node	8838 Mar 20 04:17	17° ∺ 07'35			8839 Mar 21 12:29	0° Υ	
	8838 Mar 28 16:08	0° Υ		max. Earth dist.	8839 Mar 25 21:37	6° Ƴ 51'17	1.45440 AU
morning set	8838 Mar 31 02:44	3° Y 45'11					
max. Earth dist.	8838 Apr 12 04:25	22° Y 34'41	1.44664 AU	superior conj	8839 Mar 26 22:57	8° Ƴ 30'34	
				minimum elong	8839 Mar 26 14:31	7° Y ′57′30	1°55'09
superior conj	8838 Apr 16 13:30	29° Y 33'29			8839 Apr 09 12:47	9° 8	
minimum elong	8838 Apr 16 11:33	29° Y 25'35	2°11'36	evening rise	8839 Apr 11 08:07	2° 8 53'41	
	8838 Apr 16 20:07	9° 8		greatest brilliancy	8839 Apr 18 12:36	14° 8 25'46	-0.9m

	8839 Apr 28 22:32	$\Pi^{\circ}0$		superior conj	8840 Mar 05 05:11	17° ∺ 25'49	-1°21'39
asc. node	8839 Apr 29 12:47	0° Ⅱ 45'30		minimum elong	8840 Mar 04 20:15	16° ¥ 50′38	1°20'34
evening max el	8839 May 02 09:30	4° Ⅱ 01'15	18°41'16	max. Earth dist.	8840 Mar 07 17:16		1.45481 AU
retrograde	8839 May 08 23:45	7°∏38′24			8840 Mar 13 05:59	0° Y	
evening set	8839 May 12 05:45	6° ∏ 38'12		evening rise	8840 Mar 21 08:46	12° Y 36'45	
inferior conj	8839 May 17 21:08	1° Ⅱ 00'48	3°19'33		8840 Apr 01 15:32	9° 8	
minimum elong	8839 May 17 21:53	0° Ⅱ 58'30	3°19'18	greatest brilliancy	8840 Apr 02 20:04	1° 8 47'36	-0.7m
	8839 May 18 16:53	30° ₹ 8		evening max el	8840 Apr 14 17:23	17° 8 39'05	19°25'25
min. Earth dist.	8839 May 19 19:32	28° 8 38'49	0.65412 AU	asc. node	8840 Apr 15 09:53	18° 8 19'32	
morning rise	8839 May 23 13:18	24° 8 42'44		retrograde	8840 Apr 21 20:45	21° 8 42'07	
direct	8839 May 30 02:11	21° 8 56'33		evening set	8840 Apr 25 10:52	20° 8 26'55	
desc. node	8839 Jun 03 01:01	22° 8 47'55		inferior conj	8840 Apr 30 20:58	14° 8 34'17	3°21'00
morning max el	8839 Jun 12 09:25	29° 8 48'36	26°58'14	minimum elong	8840 Apr 30 20:29	14° 8 35'52	3°20'49
	8839 Jun 12 13:55	Π $\circ 0$		min. Earth dist.	8840 May 02 04:11	12° 8 52'03	0.66844 AU
	8839 Jul 04 17:09	0		morning rise	8840 May 06 05:45	8° 8 15'48	
morning set	8839 Jul 18 02:23	23° © 38'02		direct	8840 May 12 09:05	5° 8 32'59	
	8839 Jul 21 08:27	$0^{\circ}\Omega$		desc. node	8840 May 19 22:00	8° 8 38'33	
max. Earth dist.	8839 Jul 22 10:18	2° Ω 09'38	1.33914 AU	morning max el	8840 May 24 19:26	12° 8 59'10	25°48'19
					8840 Jun 07 12:47	Π °0	
superior conj	8839 Jul 26 15:03	10° Ω 48'11	0°01'17		8840 Jun 26 10:35	0	
minimum elong	8839 Jul 26 14:59	10° Ω 47'52	0°01'05	morning set	8840 Jun 29 22:04	6° ॐ 15'19	
behind sun begin	8839 Jul 26 09:19	10° Ω 18'15		max. Earth dist.	8840 Jul 03 16:22	13° © 17'54	1.35648 AU
behind sun end	8839 Jul 26 20:38	11° Ω 17'32					
asc. node	8839 Jul 26 12:00	10° Ω 32'16		superior conj	8840 Jul 09 08:30	24° © 26'55	-0°29'42
evening rise	8839 Aug 02 23:05	26° Ω 19'42		minimum elong	8840 Jul 09 10:16	24° © 35'50	0°29'34
	8839 Aug 04 17:23	0° m ∕		asc. node	8840 Jul 12 08:59	0° Ω 35'59	
evening max el	8839 Aug 23 01:51	29° Mp 15'32	21°34'48		8840 Jul 12 01:58	$0 {\circ} \Omega$	
	8839 Aug 23 20:29	0∘ ⊽		evening rise	8840 Jul 17 06:13	10° Ω 39'43	
desc. node	8839 Aug 29 23:56	4° £ 12'00			8840 Jul 27 12:44	0° ™	
retrograde	8839 Sep 04 09:43	5° £ 22'26		evening max el	8840 Aug 04 05:26	10° Mp 07'15	20°12'35
evening set	8839 Sep 07 01:03	5° ჲ 06'37		retrograde	8840 Aug 14 22:30	15° m 25'06	
inferior conj	8839 Sep 16 05:10	1° ≏ 08'45	-4°41'17	desc. node	8840 Aug 15 21:04	15°M 22'48	
minimum elong	8839 Sep 15 19:56	1° ≏ 21'40	4°39'08	evening set	8840 Aug 16 21:11	15° m) 15'23	
min. Earth dist.	8839 Sep 16 03:37	1° ≏ 10'55	0.54697 AU	inferior conj	8840 Aug 25 23:28	11° m y 17'07	-3°01'57
	8839 Sep 18 06:52	30°R, Mp		minimum elong	8840 Aug 25 15:21	11° m)29'06	2°59'12
morning rise	8839 Sep 24 15:47	27° m 18'41		min. Earth dist.	8840 Aug 27 13:25	10° Mp 21'05	0.54940 AU
direct	8839 Sep 28 06:31	26° Mp 50'15		morning rise	8840 Sep 03 08:30	7° m 07'34	
	8839 Oct 07 08:17	0∘ ত		direct	8840 Sep 07 16:59	6° Mp 26′38	
morning max el	8839 Oct 10 16:22	2° £ 43'01	22°09'33	morning max el	8840 Sep 21 05:47	13° m 02'54	23°55'24
asc. node	8839 Oct 22 11:48	18° ≏ 23'51			8840 Oct 04 05:15	0∘ ⊽	
	8839 Oct 28 17:17	0° M ₊		asc. node	8840 Oct 08 08:45	7° ≏ 17'18	
morning set	8839 Nov 01 03:09	7°M01'12		morning set	8840 Oct 15 14:52	21° ≏ 50'57	
					8840 Oct 19 09:28	0° M	
superior conj	8839 Nov 08 05:43	22°M08'00	1°40'21				
minimum elong	8839 Nov 08 06:17	22°M10'58	1°40'32	superior conj	8840 Oct 22 12:36	6° ™ 49'10	
max. Earth dist.	8839 Nov 11 22:44	29°M50'59	1.34368 AU	minimum elong	8840 Oct 22 11:58	6°M45'44	1°40'13
	8839 Nov 12 00:30	0°⊀		max. Earth dist.	8840 Oct 24 21:26	11° M 55'15	1.33005 AU
evening rise	8839 Nov 16 09:28	8° ≯ 42'04		evening rise	8840 Oct 30 00:34	22°M35'18	
desc. node	8839 Nov 25 22:35	25° ₹ 58'09			8840 Nov 02 19:20	0° ∡ ¹	
	8839 Nov 28 09:01	0°る		desc. node	8840 Nov 11 19:40	15° ∡ ′58′09	
	8839 Dec 20 20:32	0° ≈			8840 Nov 21 02:56	0°ಕ	
evening max el	8839 Dec 21 08:52	0° ≈ 29'57	26°58'38	evening max el	8840 Dec 02 21:21	13° る 51'20	27°26'33
retrograde	8840 Jan 03 15:17	7° ≈ 49'59		retrograde	8840 Dec 16 12:18	21° ප 10'51	
evening set	8840 Jan 10 06:33	5°≈14'41		evening set	8840 Dec 23 11:41	18° る 37'53	
min. Earth dist.	8840 Jan 14 06:09	1° ≈ 21'11	0.65599 AU	min. Earth dist.	8840 Dec 27 06:30	15° る 16'50	0.63981 AU
	8840 Jan 15 10:40	30°₹ ⋜		inferior conj	8840 Dec 29 19:28	12° る 38'54	
inferior conj	8840 Jan 16 07:39	28° る 59'34		minimum elong	8840 Dec 29 22:55	12° る 29'55	1°48'35
minimum elong	8840 Jan 16 08:54	28° ろ 56'00	0°42'22	asc. node	8841 Jan 04 08:13	7° る 51'31	
asc. node	8840 Jan 18 11:08	26° る 37'17		morning rise	8841 Jan 05 11:54	7° る 17'37	
morning rise	8840 Jan 22 12:25	23° る 23'32		direct	8841 Jan 07 22:48	6° ප 47'33	
direct	8840 Jan 25 06:41	22° る 42'06		morning max el	8841 Jan 14 10:23	10°る09'47	17°50'05
morning max el	8840 Jan 31 17:06	26° る 07'11	18°08'16	_	8841 Jan 27 21:47	0° ≈	
_	8840 Feb 04 01:55	0° ≈		morning set	8841 Jan 31 04:01	5° ≈ 32'57	
morning set	8840 Feb 19 07:23	23° ≈ 33'09		desc. node	8841 Feb 07 19:00	18° ≈ 24'39	
desc. node	8840 Feb 21 22:05	27°≈47'38					
	8840 Feb 23 06:49	0° ∀		superior conj	8841 Feb 13 02:50	27° ≈ 09'27	
				minimum elong	8841 Feb 12 22:35	26° ≈ 52'10	0~37/30

max. Earth dist.	8841 Feb 14 21:03 8841 Feb 18 12:40	0° ℋ 5° ℋ 49'52	1.44789 AU	minimum elong behind sun begin	8842 Jan 25 01:44 8842 Jan 24 17:20	8°≈06'50 7°≈31'07	0°04'41
evening rise	8841 Feb 28 20:58	21° 米 57′12 0° ⋎		behind sun end	8842 Jan 25 10:07	8°≈42'27	
	8841 Mar 06 03:42 8841 Mar 27 14:17	0° ∀		desc. node max. Earth dist.	8842 Jan 25 15:57 8842 Feb 01 04:39	9°≈07'10 19°≈56'18	1 42440 AII
evening max el	8841 Mar 28 20:00	1° 8 18'48	20°24'34	max. Earm dist.	8842 Feb 07 12:13	0°) €	1.43440 AU
asc. node	8841 Apr 02 07:01	4° 8 55'23	20 24 34	evening rise	8842 Feb 07 12:13	0 X 1° X 31'10	
retrograde	8841 Apr 05 19:20	5° 8 57'24		evening rise	8842 Feb 27 16:54	0° Υ	
evening set	8841 Apr 09 18:28	4° 8 26'53		evening max el	8842 Mar 11 17:00	14° Y 59'01	21°35'41
, and the second	8841 Apr 13 20:41	30° Ŗ ♈		asc. node	8842 Mar 20 04:09	20° Ƴ 17'28	
inferior conj	8841 Apr 15 02:02	28° Y 20'50	3°09'55	retrograde	8842 Mar 20 17:28	20° Y 19'02	
minimum elong	8841 Apr 15 00:35	28° Y 25'46	3°09'37	evening set	8842 Mar 25 02:41	18° Y 33'18	
min. Earth dist.	8841 Apr 15 19:02	27° Y 22'40	0.67828 AU	inferior conj	8842 Mar 30 09:57	12° Y 16'13	2°48'14
morning rise	8841 Apr 20 06:29	22° Y 04'19		minimum elong	8842 Mar 30 07:54	12° Y ′23'21	2°47'46
direct	8841 Apr 25 21:19	19° Ƴ 34'14		min. Earth dist.	8842 Mar 30 13:56	12° Y ′02'20	0.68362 AU
desc. node	8841 May 06 18:58	25° Y 55'50		morning rise	8842 Apr 04 12:58	6° Y °03′18	
morning max el	8841 May 07 04:45	26° Y 20′21	24°23'24	direct	8842 Apr 09 14:03	3°Υ51'58	22052122
	8841 May 10 13:44	0° Ⅱ		morning max el	8842 Apr 19 14:52	9° Υ 48'32	22°53'32
morning set	8841 Jun 01 02:33 8841 Jun 11 23:01	0° Ц 17° Ц 57'46		desc. node	8842 Apr 23 15:54 8842 May 05 12:23	14° Y 15'39 0° と	
max. Earth dist.	8841 Jun 15 14:40		1.37745 AU	morning set	8842 May 23 23:47	28° 8 31'38	
max. Earth dist.	8841 Jun 18 15:29	0°95	1.37743 AU	morning set	8842 May 24 21:04	28 ∪ 31 38	
	0041 Juli 10 13.2)	0 3		max. Earth dist.	8842 May 28 11:14		1.39997 AU
superior conj	8841 Jun 22 14:36	7° © 30'02	-1°01'56	max. Dartii dist.	0012 May 20 11.11	0 20100	1.57777 110
minimum elong	8841 Jun 22 18:29	7°5548'48		superior conj	8842 Jun 05 05:14	19° Ⅱ 47'39	-1°32'42
asc. node	8841 Jun 29 06:00	20°533'12		minimum elong	8842 Jun 05 10:53	20° Ⅱ 13'29	1°32'13
evening rise	8841 Jul 01 07:37	24°539'50		J	8842 Jun 10 16:47	0ಂತಾ	
	8841 Jul 04 00:44	$0^{\circ}\Omega$		evening rise	8842 Jun 15 00:07	8° © 11'39	
evening max el	8841 Jul 17 22:14	21° Ω 44′02	19°10'28	asc. node	8842 Jun 16 03:02	10° © 19'45	
retrograde	8841 Jul 26 23:15	26° Ω 12'47			8842 Jun 27 15:03	0 ° Ω	
evening set	8841 Jul 28 20:26	26° Ω 01'56		evening max el	8842 Jul 01 01:42	4° Ω 02'46	18°29'24
desc. node	8841 Aug 02 18:11	24° Ω 05'48		retrograde	8842 Jul 08 18:31	7° Ω 53'24	
inferior conj	8841 Aug 06 07:48	21°Ω50'22		evening set	8842 Jul 10 21:32	7° Ω 36'42	
minimum elong	8841 Aug 06 04:55	21° £ 55'14		inferior conj	8842 Jul 18 13:15	3° Ω 05'58	0°37'13
min. Earth dist.	8841 Aug 09 02:45	19° £ 58′01	0.56091 AU	minimum elong	8842 Jul 18 14:34	3°Ω03'21	0°36'32
morning rise direct	8841 Aug 14 10:26 8841 Aug 19 14:32	17° Ω 05'49 16° Ω 04'04		desc. node min. Earth dist.	8842 Jul 20 15:16 8842 Jul 21 21:31	1° Ω 26'49 0° Ω 28'41	0.57927 AU
morning max el	8841 Sep 02 18:28	23°Ω16'37	25°37'13	iiiii. Eartii dist.	8842 Jul 22 13:05	30°R95	0.37927 AO
morning max ci	8841 Sep 08 19:50	0° m	23 37 13	morning rise	8842 Jul 26 04:06	27° © 44'44	
asc. node	8841 Sep 25 05:42	26° m 37'52		direct	8842 Aug 01 02:52	26°513'51	
	8841 Sep 26 22:04	0∘ ⊽			8842 Aug 10 22:43	$0^{\circ}\Omega$	
morning set	8841 Sep 30 02:17	6° £ 37′20		morning max el	8842 Aug 15 12:04	3° Ω 52'58	26°58'00
-	•			•	8842 Sep 03 12:09	0° m	
superior conj	8841 Oct 06 22:55	21° ≏ 37'47	1°33'51	asc. node	8842 Sep 12 02:38	16°Mp18'17	
minimum elong	8841 Oct 06 21:21	21° ≏ 29'10	1°33'48	morning set	8842 Sep 14 11:47	21° m 15'50	
max. Earth dist.	8841 Oct 08 03:00	24° ≏ 12'30	1.32093 AU		8842 Sep 18 12:38	0∘ 亚	
	8841 Oct 10 18:47	0° M ₊					
evening rise	8841 Oct 14 00:21	6°M50'53		superior conj	8842 Sep 21 10:41	6° Ω 28'02	
	8841 Oct 26 07:29	0° ∡ ¹		minimum elong	8842 Sep 21 08:34	6° Ω 16'16	
desc. node	8841 Oct 29 16:47	5° ₹30'07	27024120	max. Earth dist.	8842 Sep 21 12:24	6° £ 37'33	1.31646 AU
evening max el	8841 Nov 15 06:33	26°♂39'55 0°る	27°24'28	evening rise	8842 Sep 28 06:12	21° £ 21'54 0° ™	
retrograde	8841 Nov 19 05:20 8841 Nov 29 02:12	0 る 3° る 54'53		desc. node	8842 Oct 02 10:57 8842 Oct 16 13:54	24°M22'51	
evening set	8841 Dec 06 04:16	1° る 33'16		desc. Hode	8842 Oct 20 15:47	0° x ⁷	
evening set	8841 Dec 08 06:52	30°R. ₹		evening max el	8842 Oct 28 09:57	8° ∡ 744'12	26°48'42
min. Earth dist.	8841 Dec 09 20:39	28° ∡ ³39′26	0.62078 AU	retrograde	8842 Nov 11 07:58	15° ₹ 753'10	20 .0 .2
inferior conj	8841 Dec 12 19:36	25° ₹ 55'59		evening set	8842 Nov 18 04:16	13° ∡ ¹53'45	
minimum elong	8841 Dec 13 01:25	25° х 42′33		min. Earth dist.	8842 Nov 22 00:09	11° ∡ 16'27	0.60001 AU
morning rise	8841 Dec 20 00:49	20° ₹ 52'48		inferior conj	8842 Nov 25 04:38	8° ∡ ′42'02	
direct	8841 Dec 22 06:50	20° ∡ ³30'31		minimum elong	8842 Nov 25 12:02	8° ∡ 727′03	4°08'27
asc. node	8841 Dec 22 05:17	20° х 30′32		morning rise	8842 Dec 02 22:17	3° ₹ 59'51	
morning max el	8841 Dec 29 03:11	23° х 59'12	17°49'44	direct	8842 Dec 05 02:45	3° х 41′56	
	8842 Jan 02 23:16	0° ප		asc. node	8842 Dec 09 02:18	4° ∡ ¹44'27	
morning set	8842 Jan 13 22:28	18° る 34'31		morning max el	8842 Dec 12 16:00	7° ∡ 26′11	18°08'22
	8842 Jan 20 08:53	0° ≈			8842 Dec 27 02:45	0° ろ	
	0040 x - 25 - 11	00 0 ::=	000455	morning set	8842 Dec 28 08:33	2° る 19'31	
superior conj	8842 Jan 25 01:17	8°≈04'57	0~04'33				

gunariar aani	8843 Jan 07 00:13	20° る 09'59	0°40'45	superior conj	8843 Dec 20 19:03	3° ਰ 11'11	1000!12
superior conj minimum elong	8843 Jan 07 00:13	20° る 22'54	0°40'32	minimum elong	8843 Dec 20 19:03 8843 Dec 20 22:21	3° る 26'47	1°08'02
desc. node	8843 Jan 12 12:57	20 322 34 29° る 51'47	0 40 32	max. Earth dist.	8843 Dec 20 22:21 8843 Dec 27 22:15	3 32047 16° 3 14'37	1.39463 AU
desc. node	8843 Jan 12 14:52	29 3 3147 0° ≈		desc. node	8843 Dec 27 22:13 8843 Dec 30 09:56	10 31437 20° る 34'48	1.39403 AU
max. Earth dist.	8843 Jan 14 15:28		1 41502 ATT			20 33448 23° る 06'41	
		3°≈26'11 11°≈50'07	1.41592 AU	evening rise	8843 Dec 31 21:29 8844 Jan 05 01:00	23 00041 0°≈	
evening rise	8843 Jan 19 17:48						
	8843 Jan 31 11:46	0° ∀	22054112		8844 Jan 25 09:05	0°) (2011)	24014117
evening max el	8843 Feb 22 09:32	28°) (41'34	22°54'12	evening max el	8844 Feb 04 23:36	12°) €28'11	24°14'17
	8843 Feb 23 18:00	0° Υ		retrograde	8844 Feb 16 05:59	19°) €04'35	
retrograde	8843 Mar 04 13:27	4° Υ 42'51		evening set	8844 Feb 21 14:40	16° ¥ 50′26	
asc. node	8843 Mar 07 01:15	4°Υ12'02		asc. node	8844 Feb 21 22:20	16°) (33′39	
evening set	8843 Mar 09 09:55	2° Υ 42'23		min. Earth dist.	8844 Feb 26 06:55	11° ∺ 28'15	0.68161 AU
	8843 Mar 12 00:01	30° ₹		inferior conj	8844 Feb 27 02:36	10°) €21'52	1°37'18
inferior conj	8843 Mar 14 18:46	26° ∺ 17'33	2°17'09	minimum elong	8844 Feb 27 00:38	10°) €28'31	1°36'42
minimum elong	8843 Mar 14 16:31	26° ∺ 25'19	2°16'32	morning rise	8844 Mar 03 10:40	4°) €20′23	
min. Earth dist.	8843 Mar 14 10:40	26°) 45′36	0.68467 AU	direct	8844 Mar 07 08:46	2°) 52'46	
morning rise	8843 Mar 19 23:01	20°) €09'33		morning max el	8844 Mar 15 02:09	7° ∺ 14'31	20°12'21
direct	8843 Mar 24 10:16	18° ∺ 19'56		desc. node	8844 Mar 27 09:44	22° ∺ 59'25	
morning max el	8843 Apr 02 04:58		21°27'37		8844 Apr 01 04:38	0 ° $\mathbf{\Upsilon}$	
	8843 Apr 07 22:47	0 ° $\mathbf{\gamma}$		morning set	8844 Apr 11 21:52	16° Ƴ 15′20	
desc. node	8843 Apr 10 12:49	3° Y 20′54			8844 Apr 20 16:20	9° 8	
	8843 Apr 28 20:51	9° 8		max. Earth dist.	8844 Apr 21 20:55	1° 8 54'07	1.43913 AU
morning set	8843 May 03 21:07	7° 8 49'42					
max. Earth dist.	8843 May 10 12:12	18° 8 31'41	1.42143 AU	superior conj	8844 Apr 27 18:17	11° 8 27'16	-2°11'24
	8843 May 17 07:44	Π $^{\circ}0$		minimum elong	8844 Apr 27 20:12	11° 8 35'12	2°11'30
					8844 May 08 18:09	$\Pi^{\circ}0$	
superior conj	8843 May 17 23:43	1° Ⅱ 08'57	-1°57'48	evening rise	8844 May 10 13:58	3° Ⅱ 09'20	
minimum elong	8843 May 18 05:21	1° Ⅲ 33'17	1°57'35	asc. node	8844 May 19 21:07	18° Ⅱ 58'54	
evening rise	8843 May 29 03:45	21° Ⅱ 04'39			8844 May 27 22:30	0°€	
asc. node	8843 Jun 03 00:04	29° Ⅱ 50'06		evening max el	8844 May 28 01:04	0°906'24	18°06'40
	8843 Jun 03 02:18	0°ಅ		retrograde	8844 Jun 03 11:02	3°526'48	
evening max el	8843 Jun 14 11:51	16°53'12	18°08'27	evening set	8844 Jun 06 05:23	2°548'22	
retrograde	8843 Jun 21 07:40	20°ഇ20'58		•	8844 Jun 10 03:13	30° Ŗ Ⅱ	
evening set	8843 Jun 23 18:24	19° © 54'41		inferior conj	8844 Jun 12 11:57	27° Ⅲ 37'51	2°44'14
inferior conj	8843 Jun 30 15:44	15° © 03'38	1°54'06	minimum elong	8844 Jun 12 14:35	27° Ⅲ 30′54	2°43'26
minimum elong	8843 Jun 30 18:39	14°956'54	1°52'59	min. Earth dist.	8844 Jun 15 09:20	24° Ⅱ 37'03	0.62376 AU
min. Earth dist.	8843 Jul 03 23:11	12° © 02'31	0.60131 AU	morning rise	8844 Jun 18 21:58	21° I I31'00	
morning rise	8843 Jul 07 16:03	9° 5 514'18		desc. node	8844 Jun 23 09:22	19° Ⅱ 19'50	
desc. node	8843 Jul 07 12:20	9° 5 20'05		direct	8844 Jun 25 15:53	19° Ⅱ 03'32	
direct	8843 Jul 14 04:14	7° © 12'15		morning max el	8844 Jul 09 18:17	27° I 105'35	27°54'49
morning max el	8843 Jul 28 12:14	15°907'35	27°45'31	morning man er	8844 Jul 12 12:06	0°9	27 5
8	8843 Aug 09 13:43	0°N			8844 Aug 02 06:12	$0^{\circ}\Omega$	
	8843 Aug 26 22:58	0° mp		morning set	8844 Aug 12 17:30	19° Ω 44'39	
morning set	8843 Aug 29 17:32	5° mp 40'08		asc. node	8844 Aug 15 20:32	26° Ω 13'23	
asc. node	8843 Aug 29 23:35	6° Mp 11'44		use. Houe	8844 Aug 17 15:06	0° m	
max. Earth dist.	8843 Sep 04 21:59	19° m 00'03	1.31664 AU	max. Earth dist.	8844 Aug 18 04:00		1.32156 AU
max. Dartii dist.	0043 Бер 04 21.37	17 11/0003	1.51004710	max. Earth dist.	0044 / Mug 10 04.00	1 11/0722	1.52150710
superior conj	8843 Sep 05 22:02	21° m 13'01	1°05'18	superior conj	8844 Aug 20 07:10	5° m 47'11	0°43'43
minimum elong	8843 Sep 05 19:49	21° m/00'40	1°04'52	minimum elong	8844 Aug 20 05:20	5° m 37'11	0°43'15
minimum ciong	8843 Sep 09 21:21	0° ರ	1 0132	evening rise	8844 Aug 27 03:11	20° mp 41'51	0 13 13
evening rise	8843 Sep 12 15:48	° - 6° - 200'49		evening rise	8844 Aug 31 14:37	20 m/ +1 31 0° ೧	
evening rise	8843 Sep 25 03:15	0°M		desc. node	8844 Sep 19 08:07	0 — 29° ჲ 00'59	
desc. node	8843 Oct 03 11:01	12°M20'16		desc. node	8844 Sep 20 07:17	0° M	
evening max el	8843 Oct 10 05:38	19°M57'47	25°40'34	evening max el	8844 Sep 20 18:23	0°M27'05	24°08'48
retrograde	8843 Oct 24 03:44	26°M59'52	23 40 34	retrograde	8844 Oct 04 11:11	7°M18'51	24 00 40
evening set	8843 Oct 30 06:48	25°M32'21		evening set	8844 Oct 09 08:38	6°M26'14	
min. Earth dist.	8843 Nov 03 18:06	22°M55'35	0.57941 AU	min. Earth dist.	8844 Oct 15 05:05	3°M31'40	0.56167 AU
inferior conj	8843 Nov 06 19:11	20°M47'23		inferior conj	8844 Oct 17 13:23	2°M05'08	
minimum elong	8843 Nov 07 01:36	20°M36'05	5°07'05	minimum elong	8844 Oct 17 13:23	2°M03'25	
morning rise	8843 Nov 14 22:43	16°M27'40	5 0 / 05	mannam clong	8844 Oct 21 02:56	2 11603 23 30°R Ω	J J I UH
direct	8843 Nov 17 06:26	16°M10'50		morning rise	8844 Oct 25 22:25	30 K== 28° Ω 06'12	
asc. node				direct	8844 Oct 28 15:01	28° 2 206 12 27° 2 47'19	
	8843 Nov 25 23:17	20°M25'18	18047145	uncet		2/° 12 4/°19 0° M	
morning max el	8843 Nov 25 21:06	20° M .19'59 0° ∡ 7	18°47'45	morning may al	8844 Nov 04 11:40	2°M30'30	10040127
morning sat	8843 Dec 03 05:10 8843 Dec 12 05:26	0° x ¹ 16° x ¹33'43		morning max el asc. node	8844 Nov 07 14:57 8844 Nov 11 20:17	7°M18'30	17 474/
morning set	8843 Dec 12 05:26 8843 Dec 19 02:55	16°×'33'43		asc. Hout		0° ₹	
	0043 DEC 19 02.33	υ O		morning set	8844 Nov 24 20:17 8844 Nov 25 09:30	0° × ¹ 1° × ¹06'50	
				morning set	30TT 110V 23 U7.30	1 × 00 20	

	0044 D 02 04 50	160 75426	102654		0045 N 17 01 24	10 7000	1027122
superior conj	8844 Dec 03 04:50		1°26'54	superior conj	8845 Nov 17 01:24	1° ∡ 708'36	
minimum elong	8844 Dec 03 07:23	17° ∡ 707'14	1°26'53	minimum elong	8845 Nov 17 02:43	1° ∡ 15'24	1°37'40
max. Earth dist.	8844 Dec 09 04:27	28° ∡ 27'42	1.37303 AU	max. Earth dist.	8845 Nov 21 14:39	10° ∡ ′22'39	1.35336 AU
	8844 Dec 10 00:17	0°₹		evening rise	8845 Nov 25 16:57	18° ∡ 17'36	
evening rise	8844 Dec 12 22:15	5°る18'26			8845 Dec 02 04:42	0°₹	
desc. node	8844 Dec 16 06:55	11° る 12'06		desc. node	8845 Dec 03 03:57	1° る 39'40	
	8844 Dec 27 23:52	0° ≈			8845 Dec 22 04:55	0° ≈	
evening max el	8845 Jan 17 12:50	26° ≈ 16′24	25°29'03	evening max el	8845 Dec 31 02:04	10° ≈ 01'22	26°31'13
	8845 Jan 21 19:32	0° ℋ		retrograde	8846 Jan 13 00:48	17° ≈ 17'57	
retrograde	8845 Jan 29 17:58	3° ₩ 18'14		evening set	8846 Jan 19 10:10	14° ≈ 44'14	
evening set	8845 Feb 04 15:19	0°) 52'26		min. Earth dist.	8846 Jan 23 12:53	10° ≈ 31'33	0.66387 AU
S	8845 Feb 05 14:28	30° R ≈		inferior conj	8846 Jan 25 07:48	8° ≈ 22'49	-0°07'16
asc. node	8845 Feb 07 19:26	27° ≈ 34'54		minimum elong	8846 Jan 25 08:00	8° ≈ 22'15	0°07'00
min. Earth dist.	8845 Feb 09 00:23	26°≈05'04	0.67462 AU	transit middle	8846 Jan 25 08:00	8°≈22'15	0°07'00
inferior conj	8845 Feb 10 07:37	24°≈24'48	0°49'02	transit begin	8846 Jan 25 05:23	8°≈30'07	0 07 00
minimum elong	8845 Feb 10 06:26	24°≈28'36	0°48'43	transit end	8846 Jan 25 10:37	8°≈14'24	
Č		24 ≈2830 18°≈31'37	0 4043	asc. node	8846 Jan 25 16:31	7°≈56'41	
morning rise	8845 Feb 15 21:56						
direct	8845 Feb 19 07:59	17°≈24'29	1001110	morning rise	8846 Jan 31 06:43	2°≈40'04	
morning max el	8845 Feb 26 07:16	21°≈14'28	19°11'26	direct	8846 Feb 03 06:12	1°≈50'22	
	8845 Mar 05 10:43	0° ∀		morning max el	8846 Feb 09 19:11	5°≈21'12	18°26'31
greatest brilliancy	8845 Mar 11 12:23	8° ∺ 50'45	-0.7m		8846 Feb 27 00:57	0° ∀	
desc. node	8845 Mar 14 06:37	13°) €01'32		desc. node	8846 Mar 01 03:32	3° ∺ 21′03	
morning set	8845 Mar 21 23:04	24°) 50′40		morning set	8846 Mar 01 22:32	4°) €36'31	
	8845 Mar 25 06:56	0 ° $\mathbf{\Upsilon}$					
max. Earth dist.	8845 Apr 04 12:13	15° Ƴ 57'28	1.45089 AU	superior conj	8846 Mar 17 18:52	29° ∺ 35′06	-1°43'04
				minimum elong	8846 Mar 17 09:19	28°) (57'44	1°42'12
superior conj	8845 Apr 07 13:15	20° Ƴ 45'51	-2°07'20		8846 Mar 18 01:14	$0^{\circ}\mathbf{\Upsilon}$	
minimum elong	8845 Apr 07 08:10	20° Y 25'41	2°07'12	max. Earth dist.	8846 Mar 18 07:03	0° Y '22'46	1.45553 AU
Č	8845 Apr 13 08:02	0°8		evening rise	8846 Apr 02 15:04	24° Y '27'00	
evening rise	8845 Apr 22 02:20	14° 8 16'51		, and the second	8846 Apr 06 03:24	0°B	
	8845 May 01 16:56	0°II		greatest brilliancy	8846 Apr 12 07:00	9° 8 39'25	-0.8m
asc. node	8845 May 06 18:11	7° I I38'32		asc. node	8846 Apr 23 15:16	25° 8 39'42	0.011
evening max el	8845 May 11 14:06	13° II 33'39	18°23'27	evening max el	8846 Apr 25 00:23	27° 8 08'36	18°58'00
•	•	17° I I01'03	10 23 27	evening max er	=	27 Ο 08 30	16 36 00
retrograde	8845 May 18 00:14				8846 Apr 28 14:12		
evening set	8845 May 21 01:56	16° Ⅱ 08'58	2011155	retrograde	8846 May 01 19:23	0° П 55'45	
inferior conj	8845 May 26 21:46	10° Ⅱ 40'38	3°11'55		8846 May 04 21:48	30° ₹8	
minimum elong	8845 May 26 23:17	10° Ⅲ 36'14	3°11'31	evening set	8846 May 05 04:42	29° 8 49'13	
min. Earth dist.	8845 May 29 04:50	8° Ⅱ 00′28	0.64406 AU	inferior conj	8846 May 10 17:27	24° 8 04'52	
morning rise	8845 Jun 01 19:37	4° Ⅱ 24'49		minimum elong	8846 May 10 17:39	24° 8 04'13	3°21'39
direct	8845 Jun 08 11:55	1° Ⅱ 42'19		min. Earth dist.	8846 May 12 09:14	21° 8 59'02	0.66074 AU
desc. node	8845 Jun 10 06:23	1° Ⅱ 52'34		morning rise	8846 May 16 06:05	17° 8 45'59	
morning max el	8845 Jun 22 03:59	9° Ⅱ 41'22	27°27'49	direct	8846 May 22 15:11	15° 8 00'08	
	8845 Jul 08 01:15	0 \circ \odot		desc. node	8846 May 28 03:24	16° 8 39'48	
	8845 Jul 25 15:29	$0^{\circ}\Omega$		morning max el	8846 Jun 04 14:39	22° 8 43'25	26°30'57
morning set	8845 Jul 27 09:14	3° Ω 22'48			8846 Jun 11 00:30	$\Pi^{\circ}0$	
max. Earth dist.	8845 Aug 01 02:44	12° Ω 56′20	1.33133 AU		8846 Jul 01 08:19	0°ಅ	
asc. node	8845 Aug 02 17:30	16° Ω 18'58		morning set	8846 Jul 10 13:27	16° © 25'37	
	33.63.408.42			max. Earth dist.	8846 Jul 14 15:09	24°9516'41	1.34598 AU
superior conj	8845 Aug 04 12:08	20° Ω 05'00	0°17'50		8846 Jul 17 11:44	$0^{\circ}\Omega$	
minimum elong	8845 Aug 04 11:16	20° Ω 00'21	0°17'30		0010341 17 11.11	0 00	
minimum clong	8845 Aug 09 02:49	0° m	0 17 30	superior conj	8846 Jul 19 10:35	3° Ω 59'52	0°11'37
avanina riaa	•				8846 Jul 19 11:15	4°Ω03'16	
evening rise	8845 Aug 11 14:32	5° m 19'29		minimum elong			0 1140
	8845 Aug 24 19:18	0° ʊ	22220100	behind sun begin	8846 Jul 19 07:11	3° Ω 42'19	
evening max el	8845 Sep 02 06:15	10° ≙ 38'02	22°29'08	behind sun end	8846 Jul 19 15:18	4°Ω24'16	
desc. node	8845 Sep 06 05:14	13° ≙ 57'05		asc. node	8846 Jul 20 14:28	6° Ω 24'17	
retrograde	8845 Sep 15 06:35	17° ≏ 07'27		evening rise	8846 Jul 26 23:51	19° Ω 47'33	
evening set	8845 Sep 18 15:52	16° ≏ 42'12			8846 Aug 01 01:10	0° m y	
min. Earth dist.	8845 Sep 26 13:06	13° ≏ 13'02	0.54988 AU	evening max el	8846 Aug 15 02:22	21°M) 06'55	20°57'32
inferior conj	8845 Sep 27 13:46	12° ≏ 38′08	-5°18'03	desc. node	8846 Aug 24 02:22	26°M 36'36	
minimum elong	8845 Sep 27 07:14	12° ≏ 47'23	5°17'04	retrograde	8846 Aug 26 19:03	26° Mp 54'42	
morning rise	8845 Oct 06 00:26	8° ჲ 50'31		evening set	8846 Aug 29 00:50	26° m/42'46	
direct	8845 Oct 09 06:14	8° ≏ 26'44		inferior conj	8846 Sep 07 06:07	22° m/46'11	-4°03'28
morning max el	8845 Oct 20 19:45	13° ≏ 52'21	21°13'16	minimum elong	8846 Sep 06 20:30	22° m 59'50	4°00'43
asc. node	8845 Oct 29 17:17	25° Ω 08'46		min. Earth dist.	8846 Sep 07 21:51	22° m) 23'52	
	8845 Nov 01 14:51	0°M		morning rise	8846 Sep 15 16:25	18° m 50'17	
morning set	8845 Nov 09 18:12	15°M51'30		direct	8846 Sep 19 14:05	18° My 17'37	
morning sot	8845 Nov 16 12:11	0° ∡ 7		morning max el	8846 Oct 02 13:18	24° Mp 29'46	22°54'00
	3073 110V 10 12.11	· ^		morning max ci	30-10 001 02 13.10	0+1 و∡پيرا ד-∡	22 JT UJ

	8846 Oct 07 13:54	0° ⊽			8847 Aug 23 08:34	30°RΩ	
asc. node	8846 Oct 16 14:15	0 == 13° £ 41'55		morning rise	8847 Aug 26 12:01	28° Ω 38'34	
asc. node	8846 Oct 24 21:39	0° M		direct	8847 Aug 31 04:45	20° Ω 49'41	
morning set	8846 Oct 25 05:18	0°M40'21		direct	8847 Sep 07 19:53	0° m	
morning set	0040 001 23 03.10	0 110-10 21		morning max el	8847 Sep 14 01:33	4° Mp 43'22	24940'11
superior conj	8846 Nov 01 05:19	15°M41'56	1°41'01	morning max er	8847 Oct 01 23:33	ე° Ω	24 40 11
minimum elong	8846 Nov 01 05:20	15°M42'06	1°41'11	asc. node	8847 Oct 03 11:14	o — 2° Ω 47'38	
max. Earth dist.	8846 Nov 04 08:15	22°ML18'07	1.33726 AU	morning set	8847 Oct 09 17:03	15° £ 28'37	
max. Dartii dist.	8846 Nov 08 02:44	0°×7	1.55720110	morning sec	8847 Oct 16 09:01	0° ™	
evening rise	8846 Nov 09 01:37	1° × 753'21			0017 001 10 07.01	0 110	
desc. node	8846 Nov 20 01:01	21° х 53'21'		superior conj	8847 Oct 16 13:55	0°M26'45	1°38'09
dese. Hode	8846 Nov 25 02:57	0°궁		minimum elong	8847 Oct 16 12:51	0°M20'55	1°38'12
evening max el	8846 Dec 13 15:02	23° る 33'43	27°13'45	max. Earth dist.	8847 Oct 18 09:54	4°M26'21	1.32559 AU
evening max er	8846 Dec 22 17:17	0° ≈	27 13 13	evening rise	8847 Oct 23 20:46	15°M56'46	1.52557110
retrograde	8846 Dec 27 01:49	0°≈55'10		evening rise	8847 Oct 31 03:09	0° ⊼	
retrograde	8846 Dec 31 03:45	30°R₹		desc. node	8847 Nov 06 22:06	11° х 39'48	
evening set	8847 Jan 02 21:03	28° る 19'34		dese. Hode	8847 Nov 19 21:20	0° ਰ	
min. Earth dist.	8847 Jan 06 18:18	24° පි 40'25	0.64949 AU	evening max el	8847 Nov 26 02:23	6° ප 42'16	27°29'41
inferior conj	8847 Jan 09 00:52	22°る10'22		retrograde	8847 Dec 09 20:09	14°る00'42	27 27 41
minimum elong	8847 Jan 09 03:00	22° る 04'29	1°09'46	evening set	8847 Dec 16 21:16	11°る31'30	
asc. node	8847 Jan 12 13:37	18° る 35'52	1 0740	min. Earth dist.	8847 Dec 20 14:38	8° る 22'39	0.63194 AU
morning rise	8847 Jan 15 10:27	16° ろ 40'28		inferior conj	8847 Dec 23 08:05	5°る40'47	
direct	8847 Jan 18 01:12	16°る40'28		minimum elong	8847 Dec 23 12:34	5°る29'42	
	8847 Jan 24 11:22	16 30429 19° る 27'19	17050125	-	8847 Dec 23 12.34 8847 Dec 30 05:53	3 82942 0° る 26'41	2 10 11
morning max el	8847 Feb 01 10:27		17 38 23	morning rise asc. node	8847 Dec 30 03.33	0 32041 0° 3 22'27	
. ,		0°≈					
morning set	8847 Feb 11 03:35	15°≈50'23		direct	8848 Jan 01 14:14	0°る00'28	17047140
desc. node	8847 Feb 16 00:29	23°≈52'41		morning max el	8848 Jan 08 04:48	3° る 24'46	17°47'40
	8847 Feb 19 18:37	0° ℋ		morning set	8848 Jan 24 10:20	28° る 18'37	
					8848 Jan 25 09:39	0° ≈	
superior conj	8847 Feb 25 05:52	8°) (46′24		desc. node	8848 Feb 02 21:25	14° ≈ 32′07	
minimum elong	8847 Feb 24 22:36	8°) 17'33					
max. Earth dist.	8847 Mar 01 02:30	14°) € 52'36	1.45270 AU	superior conj	8848 Feb 05 13:33	18°≈59'05	
	8847 Mar 10 19:38	0° Υ		minimum elong	8848 Feb 05 11:30	18° ≈ 50'37	
evening rise	8847 Mar 13 08:47	3° Y 55'47		max. Earth dist.	8848 Feb 11 20:17	29° ≈ 11'32	1.44285 AU
greatest brilliancy	8847 Mar 27 13:23	25° Y 27'38	-0.6m		8848 Feb 12 08:25	0° ∀	
	8847 Mar 30 16:41	0°8		evening rise	8848 Feb 20 20:03	13° ∺ 17'03	
evening max el	8847 Apr 08 06:04	10° 8 47'15	19°48'55		8848 Mar 02 21:56	$0^{\circ}\mathbf{\Upsilon}$	
asc. node	8847 Apr 10 12:22	12° 8 50'43		evening max el	8848 Mar 21 06:19	24° Y 27′20	20°53'41
retrograde	8847 Apr 15 17:24	15° 8 04'50		asc. node	8848 Mar 27 09:29	28° Y 57′02	
evening set	8847 Apr 19 11:07	13° 8 43'21		retrograde	8848 Mar 29 15:55	29° Y 23'01	
inferior conj	8847 Apr 24 19:51	7° 8 44'44	3°17'41	evening set	8848 Apr 02 19:09	27° Ƴ 46'11	
minimum elong	8847 Apr 24 18:55	7° 8 47'51	3°17'28	inferior conj	8848 Apr 08 02:22	21° Ƴ 35′21	3°01'55
min. Earth dist.	8847 Apr 25 20:56	6° 8 20'45	0.67314 AU	minimum elong	8848 Apr 08 00:37	21° Ƴ 41'23	3°01'33
morning rise	8847 Apr 30 02:24	1° 8 26'35		min. Earth dist.	8848 Apr 08 13:48	20° Y 55′52	0.68111 AU
	8847 May 01 23:55	30° ŖƳ		morning rise	8848 Apr 13 05:52	15° Ƴ 20'09	
direct	8847 May 06 00:37	28° Ƴ 48′03		direct	8848 Apr 18 15:02	12° Ƴ 57'11	
	8847 May 10 10:52	9° 8		morning max el	8848 Apr 29 09:29	19° Ƴ 22'53	23°45'07
desc. node	8847 May 15 00:23	3° 8 10'34		desc. node	8848 Apr 30 21:21	20° Ƴ 56'41	
morning max el	8847 May 18 00:24	5° 8 59'41	25°13'22		8848 May 08 09:15	9° 8	
	8847 Jun 05 13:47	Π $^{\circ}0$			8848 May 28 17:26	Π $^{\circ}0$	
morning set	8847 Jun 23 01:53	28° Ⅱ 41'51		morning set	8848 Jun 03 17:07	9° Ⅱ 56'19	
	8847 Jun 23 19:14	0 \circ \odot		max. Earth dist.	8848 Jun 07 13:19	16° Ⅲ 36′00	1.38701 AU
max. Earth dist.	8847 Jun 26 17:02	5° © 20'27	1.36500 AU				
				superior conj	8848 Jun 14 23:44	0° © 09'44	-1°15'23
superior conj	8847 Jul 02 23:41	17° 5 24'44	-0°43'21	minimum elong	8848 Jun 15 04:29	0° 5 32'06	1°14'54
minimum elong	8847 Jul 03 02:21	17° © 37'55	0°43'05		8848 Jun 14 21:40	0°€	
asc. node	8847 Jul 07 11:28	26°\$25'45		asc. node	8848 Jun 23 08:27	16°5518'40	
	8847 Jul 09 05:37	$0^{\circ}\Omega$		evening rise	8848 Jun 24 02:53	17° 5 48'41	
evening rise	8847 Jul 11 04:55	4°₽00'03		Ç	8848 Jun 30 13:15	$0^{\circ}\Omega$	
Č	8847 Jul 26 09:08	0° m		evening max el	8848 Jul 10 09:40	14° Ω 13'41	18°50'29
evening max el	8847 Jul 28 11:49	2° m 18'04	19°43'38	retrograde	8848 Jul 18 19:24	18° Ω 23'57	
retrograde	8847 Aug 07 11:31	7° Mp 14'02		evening set	8848 Jul 20 18:47	18° Ω 11'01	
evening set	8847 Aug 09 07:57	7° Mp 04'36		desc. node	8848 Jul 27 20:35	14° Ω 36'54	
desc. node	8847 Aug 10 23:29	6° Mp 41'18		inferior conj	8848 Jul 28 21:56	13° Ω 51'48	-0°19'20
inferior conj	8847 Aug 18 05:05	3° Mp 02'15	-2°12'41	minimum elong	8848 Jul 28 21:08	13° £ 51'48	
minimum elong	8847 Aug 17 23:02	3° Mp 11'38		min. Earth dist.	8848 Aug 01 00:39	13° Ω 38'17	0.56815 AU
min. Earth dist.	8847 Aug 20 09:21		0.55327 AU	morning rise	8848 Aug 05 20:09	8° Ω 51'23	0.50015 AU
mm. Latin dist.	50+7 Mug 20 09.21	7 11+ Air 1	0.55521 AU	morning risc	50-10 Mug 03 20.09	0 063123	

direct	8848 Aug 11 08:53	7° Ω 37'46		morning rise	8849 Jul 17 21:25	19° © 51'00	
morning max el	8848 Aug 25 15:34	15°Ω02'25	26014150	direct	8849 Jul 24 02:43	19 3 31 00	
morning max er	8848 Sep 06 16:09	0° m	20 14 36	morning max el	8849 Aug 07 11:52	25°953'12	27022140
asc. node	8848 Sep 19 08:11	راتا 17 (۱۳ 22°		morning max er	· ·	23 3 33 12 0° Ω	21 22 49
					8849 Aug 11 08:13		
morning set	8848 Sep 23 03:50	0° ჲ 11'41		,	8849 Aug 31 02:05	0° Mp	
	8848 Sep 23 01:38	0∘ ⊽		asc. node	8849 Sep 06 05:05	12° m 03'34	
				morning set	8849 Sep 07 11:56	14° m/44'29	
superior conj	8848 Sep 30 01:03	15° Ω 16'21	1°29'31	max. Earth dist.	8849 Sep 14 03:40	29° m 13'46	1.31600 AU
minimum elong	8848 Sep 29 23:12	15° Ω 06'07	1°29'23		8849 Sep 14 12:00	0∘ ⊽	
max. Earth dist.	8848 Sep 30 17:33	16° Ω 47'46	1.31849 AU			_	
evening rise	8848 Oct 06 23:26	0° ™ 19'41		superior conj	8849 Sep 14 12:49	0° ჲ 04'33	1°15'34
	8848 Oct 06 19:41	0°M		minimum elong	8849 Sep 14 10:36	29° m 52'12	1°15'14
	8848 Oct 23 04:32	0°⊀		evening rise	8849 Sep 21 07:06	14° ≏ 54'36	
desc. node	8848 Oct 23 19:11	0° ≯ 56'21			8849 Sep 28 19:09	0° M	
evening max el	8848 Nov 07 09:44	19° ∡ 14'07	27°13'34	desc. node	8849 Oct 10 16:18	19°M27'36	
retrograde	8848 Nov 21 06:36	26° ≯ 25'51			8849 Oct 19 10:36	0° ∡ ¹	
evening set	8848 Nov 28 07:20	24° ∡ 12'46		evening max el	8849 Oct 20 10:01	0° ≯ 56'53	26°23'22
min. Earth dist.	8848 Dec 02 00:23	21° ₹ 27'22	0.61203 AU	retrograde	8849 Nov 03 07:58	8° ₮ 02'26	
inferior conj	8848 Dec 05 02:16	18° ₰ ¹46'08	-3°31'29	evening set	8849 Nov 09 22:45	6° ∡ 15'33	
minimum elong	8848 Dec 05 08:56	18° ∡ ³31'32	3°29'01	min. Earth dist.	8849 Nov 13 23:19	3° ∡ ¹40'59	0.59109 AU
morning rise	8848 Dec 12 12:52	13° ∡ ′51'11		inferior conj	8849 Nov 17 03:48	1° ∡ 15'45	-4°37'32
direct	8848 Dec 14 17:48	13° ∡ ³31′05		minimum elong	8849 Nov 17 11:13	1° ∡ 101'35	4°35'32
asc. node	8848 Dec 16 07:45	13° ∡ ¹41'48			8849 Nov 18 20:19	30°RM₊	
morning max el	8848 Dec 21 20:16	17° ∡ ¹05'27	17°55'15	morning rise	8849 Nov 25 02:05	26° ™ 43'07	
	8848 Dec 30 23:29	5°0		direct	8849 Nov 27 07:29	26°M25'55	
morning set	8849 Jan 06 12:10	11° ප් 41'10		asc. node	8849 Dec 03 04:47	28° ™ 34'08	
					8849 Dec 04 22:08	0° ∡ ¹	
superior conj	8849 Jan 16 22:48	0° ≈ 25'18	0°20'55	morning max el	8849 Dec 05 06:13	0° ∡ 19'13	18°22'33
minimum elong	8849 Jan 17 00:35	0° ≈ 33'00	0°20'50	morning set	8849 Dec 21 03:20	25° ∡ ³39'57	
•	8849 Jan 16 17:00	0° ≈			8849 Dec 23 09:43	8°0	
desc. node	8849 Jan 19 18:21	5°≈15'55					
max. Earth dist.	8849 Jan 24 10:35	13° ≈ 05'39	1.42704 AU	superior conj	8849 Dec 30 06:50	12° る 55'55	0°53'30
evening rise	8849 Jan 30 16:11	23°≈08'10		minimum elong	8849 Dec 30 10:05	13° る 10'51	0°53'16
Č	8849 Feb 04 02:01	0°) €		desc. node	8850 Jan 06 15:18	25°る59'59	
	8849 Feb 25 01:15	0°Υ		max. Earth dist.	8850 Jan 06 19:54	26° る 19'43	1.40704 AU
evening max el	8849 Mar 04 01:24	8° Ƴ 09'17	22°08'30		8850 Jan 08 23:47	0°≈	
retrograde	8849 Mar 13 13:12	13° Y 46'31		evening rise	8850 Jan 11 07:12	3°≈50'34	
asc. node	8849 Mar 14 06:36	13° Y 43'52		evening noe	8850 Jan 28 08:19	0° ∀	
evening set	8849 Mar 18 03:09	11° Y 54'23		evening max el	8850 Feb 14 16:33	21°) 53'00	23°28'24
inferior conj	8849 Mar 23 10:54	5° Υ 33'48	2°36'10	retrograde	8850 Feb 25 07:49	28°) 10'07	
minimum elong	8849 Mar 23 08:43		2°35'37	asc. node	8850 Mar 01 03:43	26°) 58'45	
min. Earth dist.	8849 Mar 23 09:39	5° Υ 38'07	0.68465 AU	evening set	8850 Mar 02 09:31	26°\(\) 03'21	
mm. Earth dist.	8849 Mar 27 22:02	30° ₹	0.00102710	inferior conj	8850 Mar 07 19:30	19°) 36'23	2°01'19
morning rise	8849 Mar 28 14:08	29° H 23'01		minimum elong	8850 Mar 07 17:19	19°) (30'25	2°00'40
direct	8849 Apr 02 09:24	27° H 20'38		min. Earth dist.	8850 Mar 07 06:21	20° ∺ 21'32	0.68388 AU
direct	8849 Apr 08 14:52	0° Υ		morning rise	8850 Mar 13 01:05	13°) (31'14	0.00500710
morning max el	8849 Apr 11 20:48	2°Υ54'20	22°16'02	direct	8850 Mar 17 06:36	11°) (51'13	
desc. node	8849 Apr 17 18:17	9° Υ 37'44	22 1002	morning max el	8850 Mar 25 13:47	16° X 36'38	20°54'06
dese. Hode	8849 May 02 09:59	0° 8		desc. node	8850 Apr 04 15:11	28° X 58'10	20 34 00
morning set	8849 May 15 06:13	19° 8 57'23		desc. node	8850 Apr 05 09:02	20 γ (30 10	
max. Earth dist.	8849 May 20 11:39	28° 8 35'28	1.40952 AU	morning set	8850 Apr 24 17:12	28° Υ 48'31	
max. Earth dist.	8849 May 21 07:40	0°II	1.40932 AU	morning set	8850 Apr 25 11:29	0° 8	
	0049 May 21 07.40	υд		max. Earth dist.	8850 May 02 16:14		1.42957 AU
avnariar aani	9940 May 29 06:22	12° Ⅱ 04'50	1044121	max. Earth dist.	8830 May 02 10.14	11 02049	1.42937 AU
superior conj	8849 May 28 06:23	12 II 04 30 12° II 31′29		aumorior aoni	9950 May 00 15:01	22° 8 59'50	2005121
minimum elong	8849 May 28 12:21 8849 Jun 07 00:28	12 п 31 29	1 43 30	superior conj	8850 May 09 15:01	22 8 3930	
				minimum elong	8850 May 09 19:37		2 03 18
evening rise	8849 Jun 07 14:25	1°505'14		avanii-	8850 May 13 17:14	0° Π	
asc. node	8849 Jun 10 05:27	5°958'48	10017150	evening rise	8850 May 21 11:17	13° Ⅱ 39'36	
evening max el	8849 Jun 23 16:24	26°5946'44	18°17'58	asc. node	8850 May 28 02:29	25°Ⅲ21'08 0°©	
notno a J -	8849 Jun 28 11:13	0° Ω		avania 1	8850 May 30 21:25		10005!10
retrograde	8849 Jun 30 22:43	0° Ω 25'39		evening max el	8850 Jun 07 04:14	9°548'00	18°05'18
evening set	8849 Jul 03 05:04	0° Ω 05'09		retrograde	8850 Jun 13 18:43	13°5511'13	
	8849 Jul 03 11:39	30°₹©	1012110	evening set	8850 Jun 16 08:37	12°540'06	2010/27
inferior conj	8849 Jul 10 12:34	25°525'20	1°13'19	inferior conj	8850 Jun 22 23:09	7°540'21	2°18'26
minimum elong	8849 Jul 10 14:52	25°\$20'28	1°12'18	minimum elong	8850 Jun 23 02:07	7°533'06	2°17'24
min. Earth dist.	8849 Jul 13 21:47	22°535'18	0.58848 AU	min. Earth dist.	8850 Jun 26 03:02	4°536'33	0.61094 AU
desc. node	8849 Jul 14 17:40	21° © 56'29		morning rise	8850 Jun 29 17:11	1° © 42'02	

desc. node	8850 Jul 01 14:43	0° 5 36'27		min. Earth dist.	8851 Jun 08 17:23	17° Ⅲ 33'35	0.63270 AU
	8850 Jul 03 02:38	30°Ŗ Ⅱ		morning rise	8851 Jun 12 06:10	14° Ⅱ 16′18	
direct	8850 Jul 06 08:32	29° Ⅱ 28'19		desc. node	8851 Jun 18 11:47	11° Ⅱ 41'36	
	8850 Jul 09 17:20	0		direct	8851 Jun 19 00:12	11° Ⅱ 40'44	
morning max el	8850 Jul 20 15:04	7° 5 27'59	27°54'15	morning max el	8851 Jul 02 23:06	19° Ⅱ 43'53	27°47'27
	8850 Aug 06 18:18	$0^{\circ}\Omega$			8851 Jul 11 17:11	0 \circ \odot	
morning set	8850 Aug 22 15:33	29° Ω 01'59			8851 Jul 30 18:07	$0^{\circ}\Omega$	
	8850 Aug 23 02:45	O° m y		morning set	8851 Aug 06 12:23	12° Ω 56'40	
asc. node	8850 Aug 24 02:00	2°Mp01'26		asc. node	8851 Aug 10 22:56	22° Ω 05′21	
max. Earth dist.	8850 Aug 28 12:22	11°m/33'12	1.31814 AU	max. Earth dist.	8851 Aug 11 15:36	23° ん 33'33	1.32508 AU
superior conj	8850 Aug 29 23:28	14° Mp 46'06	0°56'41	superior conj	8851 Aug 14 07:06	29° Ω 14'22	0°33'14
minimum elong	8850 Aug 29 21:21	14° m 34'23	0°56'14	minimum elong	8851 Aug 14 05:37	29° Ω 06′16	0°32'48
evening rise	8850 Sep 05 17:43	29° m 35'32			8851 Aug 14 15:32	0° m)	
	8850 Sep 05 22:17	0∘ ⊽		evening rise	8851 Aug 21 05:19	14° m 15'46	
	8850 Sep 22 08:21	0° M			8851 Aug 29 01:13	0∘ 亚	
desc. node	8850 Sep 27 13:24	6°M55'51		evening max el	8851 Sep 13 13:24	22° ≏ 06'27	23°26'19
evening max el	8850 Oct 02 02:08	11° M 49'12	25°03'31	desc. node	8851 Sep 14 10:32	22° ≏ 56'06	
retrograde	8850 Oct 15 22:54	18° ™ 48'29		retrograde	8851 Sep 27 01:28	28° ≙ 51'15	
evening set	8850 Oct 21 14:56	17° ™ 35'39		evening set	8851 Oct 01 07:12	28° ≙ 12'02	
min. Earth dist.	8850 Oct 26 13:42		0.57133 AU	min. Earth dist.	8851 Oct 07 23:15	25° £ 04'16	0.55574 AU
inferior conj	8850 Oct 29 09:43	13°ML01'15	-5°25'18	inferior conj	8851 Oct 09 19:38	23° ≏ 58'48	
minimum elong	8850 Oct 29 14:27	12°M53'24		minimum elong	8851 Oct 09 17:26	24° ₽ 02'04	
morning rise	8850 Nov 06 16:16	8°M51'23	3 2137	morning rise	8851 Oct 18 05:42	20° ₽ 06'15	2 32 13
direct	8850 Nov 09 03:01	8°M34'08		direct	8851 Oct 21 03:16	19° ≏ 45'46	
morning max el	8850 Nov 18 07:01	12°M56'19	19°11'16	morning max el	8851 Oct 31 19:28	24° Ω 46'44	20°22'32
asc. node	8850 Nov 20 01:47	14°M47'55	17 11 10	morning max ci	8851 Nov 05 09:58	0°M	20 22 32
asc. Houc	8850 Nov 29 22:59	0° √		asc. node	8851 Nov 06 22:46	2°ML07'05	
morning set	8850 Dec 05 03:38	10° ₹ 103'08		morning set	8851 Nov 19 09:57	24°M41'38	
morning set	8830 Dec 03 03.38	10 × 03 08		morning set	8851 Nov 21 23:43	0° √	
superior conj	8850 Dec 13 08:38	26° ∡ 16'59	1017110		6631 NOV 21 23.43	0 x	
minimum elong	8850 Dec 13 08:38	26° ₹ 31'50		superior conj	8851 Nov 26 23:29	10° ∡ 14'39	1°32'19
minimum clong	8850 Dec 15 11:43	20×3130	1 1/03	minimum elong	8851 Nov 27 01:32	10 × 1439 10°×725'01	1°32'23
max. Earth dist.	8850 Dec 20 01:34	8° る 50'10	1.38529 AU	max. Earth dist.	8851 Dec 02 08:28	20° × 50'58	1.36429 AU
	8850 Dec 23 20:07	8 03010 15° る 31'01	1.38329 AU			20 x · 30 38 28° x ¹04'17	1.30429 AU
evening rise	8850 Dec 24 12:17	15 3 3101 16° 3 40'54		evening rise	8851 Dec 06 05:00	28 x・0417 0°る	
desc. node				11.	8851 Dec 07 06:28	7° る 14'39	
	8851 Jan 01 14:02	0° ≈		desc. node	8851 Dec 11 09:18		
	8851 Jan 23 01:04	0°) {	24047107		8851 Dec 25 22:13	0°≈ 100×27/22	25057125
evening max el	8851 Jan 28 05:52	5°) (39'36	24°47'07	evening max el	8852 Jan 10 19:04	19°≈27'23	25°57'35
retrograde	8851 Feb 08 22:41	12°) 28'54		retrograde	8852 Jan 23 08:43	26°≈37'22	
evening set	8851 Feb 14 12:44	10°) €09'17		evening set	8852 Jan 29 11:11	24°≈07'48	0.65041.433
asc. node	8851 Feb 16 00:50	8°) (42'48	0.65006.433	min. Earth dist.	8852 Feb 02 17:29	19° ≈ 34'58	0.67041 AU
min. Earth dist.	8851 Feb 19 01:41	5°) €01'54		asc. node	8852 Feb 02 21:57	19° ≈ 21'07	0026106
inferior conj	8851 Feb 20 02:21			inferior conj	8852 Feb 04 05:36	17°≈41'55	0°26'06
minimum elong	8851 Feb 20 00:39		1°17'19	minimum elong	8852 Feb 04 04:56	17° ≈ 44'01	0°26'00
	8851 Feb 23 00:57	30°R≈		morning rise	8852 Feb 09 23:17	11°≈52'38	
morning rise	8851 Feb 25 12:48	27°≈42'04		direct	8852 Feb 13 04:34	10°≈53'23	
direct	8851 Mar 01 05:29	26°≈23'40		morning max el	8852 Feb 19 22:39	14° ≈ 34'10	18°50'16
	8851 Mar 08 01:43	0°) {			8852 Mar 02 13:06	0° \	
morning max el	8851 Mar 08 14:26	0°) (30′43		desc. node	8852 Mar 08 09:00	8°) 57'44	
greatest brilliancy	8851 Mar 21 08:47	17°) €06'54	-0.6m	morning set	8852 Mar 12 23:39	16° 米 08'50	
desc. node	8851 Mar 22 12:05	18°) 47′22			8852 Mar 21 20:33	0° Υ	
	8851 Mar 29 22:58	0° Υ		max. Earth dist.	8852 Mar 27 20:17	9° Y 22'15	1.45371 AU
morning set	8851 Apr 03 14:56	7° Y ′08'53				••	
max. Earth dist.	8851 Apr 15 03:32		1.44485 AU	superior conj	8852 Mar 29 10:29	11° Y 52'06	
	8851 Apr 18 04:35	0°8		minimum elong	8852 Mar 29 02:45	11° Y 21'43	1°58'58
					8852 Apr 09 20:46	0° 8	
superior conj	8851 Apr 19 23:00	2° 8 50'39		evening rise	8852 Apr 13 14:55	6° 8 02'55	
minimum elong	8851 Apr 19 22:08	2° 8 47'10	2°12'14		8852 Apr 28 20:26	0°II	
evening rise	8851 May 03 12:42	25° 8 20'40		asc. node	8852 Apr 30 20:39	2° Ⅱ 43'49	
	8851 May 06 06:35	0°П		evening max el	8852 May 04 05:58	6° Ⅱ 40'05	18°36'08
asc. node	8851 May 14 23:33	14° Ⅱ 18'45		retrograde	8852 May 10 18:50	10° Ⅱ 14'11	
evening max el	8851 May 21 17:43	23° Ⅱ 08′08	18°11'37	evening set	8852 May 13 23:44	9° Ⅱ 16′05	
retrograde	8851 May 28 02:47	26° Ⅱ 30′05		inferior conj	8852 May 19 16:10	3° Ⅱ 41′01	3°18'00
evening set	8851 May 31 00:09	25° Ⅱ 46′09		minimum elong	8852 May 19 17:07	3° Ⅱ 38′08	3°17'44
inferior conj	8851 Jun 06 01:42	20° Ⅱ 28′06		min. Earth dist.	8852 May 21 16:49	1° Ⅱ 14′00	0.65166 AU
minimum elong	8851 Jun 06 03:55	20° Ⅱ 21'59	2°57'47		8852 May 22 18:32	30°R ∀	

morning rise	8852 May 25 09:43	27° 8 23'30		inferior conj	8853 May 03 15:02	17° 8 12'08	
direct	8852 May 31 23:43	24° 8 37'51		minimum elong	8853 May 03 14:43	17° 8 13'08	3°21'25
desc. node	8852 Jun 04 08:48	25° 8 15'24		min. Earth dist.	8853 May 05 00:24	15° 8 23'42	0.66659 AU
	8852 Jun 11 17:18	Π $\circ 0$		morning rise	8853 May 09 00:43	10° 8 53'30	
morning max el	8852 Jun 14 09:18	2° Ⅱ 31'56	27°06'43	direct	8853 May 15 05:37	8° 8 09'42	
	8852 Jul 04 23:29	0ಂತಾ		desc. node	8853 May 22 05:47	10° 8 50'16	
morning set	8852 Jul 19 23:41	26° © 21'13		morning max el	8853 May 27 19:33	15° 8 40'33	25°59'56
Ü	8852 Jul 21 20:29	$0^{\circ}\Omega$		Ü	8853 Jun 08 14:27	0° I I	
max. Earth dist.	8852 Jul 24 09:56	5° Ω 08'03	1.33700 AU		8853 Jun 27 20:07	0°ಅ	
asc. node	8852 Jul 27 19:54	12°Ω11'32	1.55700110	morning set	8853 Jul 02 21:45	9° © 05'37	
asc. node	0032 Jul 27 19.34	12 0611 32		max. Earth dist.	8853 Jul 02 21:45		1.35363 AU
	0052 1 1 20 00 20	120 022146	0005146	max. Earth dist.	8833 Jul 00 17.40	10 2019 44	1.55505 AU
superior conj	8852 Jul 28 09:39	13° Ω 23'46	0°05'46		0050 1 10 0100	270007110	000.4151
minimum elong	8852 Jul 28 09:22	13° Ω 22'14	0°05'32	superior conj	8853 Jul 12 04:32	27° © 07'10	
behind sun begin	8852 Jul 28 04:04	12° Ω 54'21		minimum elong	8853 Jul 12 06:00	27° © 14'36	0°24'47
behind sun end	8852 Jul 28 14:40	13° Ω 50′10			8853 Jul 13 14:26	$0 {\circ} \Omega$	
evening rise	8852 Aug 04 16:04	28° Ω 50′18		asc. node	8853 Jul 14 16:54	2° Ω 15'59	
	8852 Aug 05 05:21	0° m		evening rise	8853 Jul 19 23:53	13° Ω 12'59	
	8852 Aug 22 22:39	0∘ ত			8853 Jul 28 16:50	0° m	
evening max el	8852 Aug 25 04:00	2° £ 21'50	21°48'26	evening max el	8853 Aug 07 05:36	13° m 07'32	20°23'37
desc. node	8852 Aug 31 07:40	6° £ 58'11		retrograde	8853 Aug 18 04:53	18° m 33'23	
retrograde	8852 Sep 06 16:29	8° - 34'51		desc. node	8853 Aug 18 04:47	18° m 33'23	
	•					-	
evening set	8852 Sep 09 12:04	8° £ 17'03	40.5012.0	evening set	8853 Aug 20 04:54	18° Mp 23'20	2010156
inferior conj	8852 Sep 18 15:02	4° £ 18'04		inferior conj	8853 Aug 29 08:26	14° m 25'49	
minimum elong	8852 Sep 18 06:16	4° ≏ 30'19		minimum elong	8853 Aug 28 23:44	14° m 38'29	3°16'07
min. Earth dist.	8852 Sep 18 07:24	4° £ 28'44	0.54746 AU	min. Earth dist.	8853 Aug 30 16:48	13° m 38'39	0.54841 AU
morning rise	8852 Sep 27 01:42	0° ₽ 29'19		morning rise	8853 Sep 06 17:55	10° m 20'31	
direct	8852 Sep 30 14:09	0° ჲ 02'09		direct	8853 Sep 10 23:31	9° m 42'01	
morning max el	8852 Oct 12 18:50	5° £ 47'47	21°54'31	morning max el	8853 Sep 24 09:10	16° Mp 12'01	23°39'31
asc. node	8852 Oct 23 19:44	20° £ 17'10			8853 Oct 05 08:28	0∘ ⊽	
	8852 Oct 29 03:58	0°M		asc. node	8853 Oct 10 16:42	9° ჲ 05'58	
morning set	8852 Nov 02 19:54	9°M28'45		morning set	8853 Oct 18 07:33	24° £ 19'01	
morning set	00321101 02 17.54) IIG20 1 3		morning set	8853 Oct 10 07:33 8853 Oct 20 23:02	0°M	
	0052 N 00 22-20	240 m 27145	1920/50		8833 OCI 20 23.02	0 IIG	
superior conj	8852 Nov 09 23:30	24°M37'45	1°39'50		0052.0 + 25.05.44	00 M 17126	1040122
minimum elong	8852 Nov 10 00:16	24°M41'44	1°39′59	superior conj	8853 Oct 25 05:44	9°M17'36	1°40'33
	8852 Nov 12 13:27	0°⊀		minimum elong	8853 Oct 25 05:16	9°M15'05	1°40'40
max. Earth dist.	8852 Nov 13 21:41	2° ҂ ¹44'37	1.34607 AU	max. Earth dist.	8853 Oct 27 19:15	14°M47'25	1.33179 AU
evening rise	8852 Nov 18 06:07	11° ≯ 20'30		evening rise	8853 Nov 01 19:42	25°M09'53	
desc. node	8852 Nov 27 06:21	27° ∡ ³36′16			8853 Nov 04 06:39	0° ∡ ¹	
	8852 Nov 28 16:42	8°0		desc. node	8853 Nov 14 03:25	17° ∡ ³39'48	
	8852 Dec 20 06:43	0° ≈			8853 Nov 22 03:58	ರ°ರ	
evening max el	8852 Dec 23 08:32	3°≈09'08	26°52'17	evening max el	8853 Dec 05 21:11	16° ප 33'54	27°24'05
retrograde	8853 Jan 05 13:04	10° ≈ 28'18		retrograde	8853 Dec 19 11:05	23° る 53'58	
evening set	8853 Jan 12 02:54	7°≈53'18		evening set	8853 Dec 26 09:36	21° る 19'57	
min. Earth dist.	8853 Jan 16 03:19	3°≈54'53	0.65814 AU	min. Earth dist.	8853 Dec 30 04:58	17°る54'26	0.64246 AU
inferior conj	8853 Jan 18 03:06	1°≈36'26		inferior conj	8854 Jan 01 16:21	17 ප 3420	
	8853 Jan 18 04:03					15°る10'01	
minimum elong		1°≈33'40	0°32'50	minimum elong	8854 Jan 01 19:27		1°38'12
asc. node	8853 Jan 19 19:05	29° る 43'10		asc. node	8854 Jan 06 16:08	10°る46'54	
	8853 Jan 19 12:56	30°Rる		morning rise	8854 Jan 08 06:58	9° ට 54'39	
morning rise	8853 Jan 24 06:17	25° る 58'33		direct	8854 Jan 10 18:49	9° る 23'09	
direct	8853 Jan 27 01:53	25° る 15'02		morning max el	8854 Jan 17 05:46	12° る 45'07	17°51'41
morning max el	8853 Feb 02 12:39	28° ප් 41'08	18°12'27		8854 Jan 29 05:37	0° ≈	
	8853 Feb 03 18:38	0° ≈		morning set	8854 Feb 03 04:30	8° ≈ 21'13	
morning set	8853 Feb 21 11:44	26° ≈ 32'48		desc. node	8854 Feb 10 02:51	19° ≈ 58'45	
desc. node	8853 Feb 23 05:54	29° ≈ 22'57					
	8853 Feb 23 15:05	0°) €		superior conj	8854 Feb 16 10:23	0° ₩ 18'03	-0°44'59
				minimum elong	8854 Feb 16 05:19	29°≈57'36	
superior conj	8853 Mar 08 15:54	20°) (43'54	-1°27'41		8854 Feb 16 05:55	0° ∀	
minimum elong	8853 Mar 08 06:36	20° H 07'20		max. Earth dist.	8854 Feb 21 11:37	8° ∺ 21'55	1.44938 AU
_							1.77330 AU
max. Earth dist.	8853 Mar 10 16:02	23° ¥ 52'39	1.45525 AU	evening rise	8854 Mar 04 07:37	25° 升 13′26	
	8853 Mar 14 14:02	0° Υ			8854 Mar 07 10:34	0° Υ	
evening rise	8853 Mar 24 18:28	15° Y 52'15			8854 Mar 28 06:24	0°8	
	8853 Apr 02 20:57	0°8		evening max el	8854 Mar 31 17:53	3° 8 56'09	20°14'55
greatest brilliancy	8853 Apr 05 13:10	4° 8 05'13	-0.7m	asc. node	8854 Apr 04 14:54	7° 8 10'39	
evening max el	8853 Apr 17 14:32	20° 8 17'14	19°17'50	retrograde	8854 Apr 08 13:58	8° 8 29'13	
asc. node	8853 Apr 17 17:47	20° 8 25'24		evening set	8854 Apr 12 11:39	7° 8 00'59	
retrograde	8853 Apr 24 15:27	24° 8 15'44		inferior conj	8854 Apr 17 19:26	0° 8 56'40	3°12'16
evening set	8853 Apr 28 04:20	23° 8 02'43		minimum elong	8854 Apr 17 18:07	1° 8 01'09	
-0	-r	. 0,2.,9			-r 10.07	- 3. 07	

min. Earth dist.	8854 Apr 18 14:28	29° Y 51'52	0.67708 AU	evening set	8855 Mar 27 19:51	21° Y ′06'56	
	8854 Apr 18 12:04	30° ₹ Υ		inferior conj	8855 Apr 02 03:03	14° Y 51'20	2°52'11
morning rise	8854 Apr 23 00:20	24° Y 39'39		minimum elong	8855 Apr 02 01:04	14° Y 58'14	2°51'43
direct	8854 Apr 28 17:05	22° Ƴ 07'15		min. Earth dist.	8855 Apr 02 08:57	14° Y 30'48	0.68309 AU
desc. node	8854 May 09 02:46	27° Ƴ 55'53		morning rise	8855 Apr 07 06:05	8° Y 37'40	
morning max el	8854 May 10 04:59	29° Y 00'30	24°36'35	direct	8855 Apr 12 09:15	6° Y 23′12	
	8854 May 11 03:59	9° 8		morning max el	8855 Apr 22 14:44	12° Y 27'40	23°06'49
	8854 Jun 02 09:19	$\Pi^{\circ}0$		desc. node	8855 Apr 25 23:44	16° Ƴ 07'49	
morning set	8854 Jun 15 01:49	20° Ⅲ 57′02			8855 May 06 15:50	9° 8	
max. Earth dist.	8854 Jun 18 16:48	27° Ⅱ 25'50	1.37411 AU		8855 May 26 05:55	Π °0	
	8854 Jun 20 02:27	0ಂತ		morning set	8855 May 27 06:29	1°∏42′00	
				max. Earth dist.	8855 May 31 12:53	8° ∏ 56′24	1.39660 AU
superior conj	8854 Jun 25 12:31	10° © 15'50				🗕	
minimum elong	8854 Jun 25 16:06	10°533'12	0°56'41	superior conj	8855 Jun 08 05:43	22° Ⅱ 40'54	
asc. node	8854 Jul 01 13:53	22°514'19		minimum elong	8855 Jun 08 11:11	23° I 106'03	1°27'48
evening rise	8854 Jul 04 02:18	27° © 16'21			8855 Jun 12 03:45	0°95	
	8854 Jul 05 11:14	0°N	1001010	evening rise	8855 Jun 17 20:19	10°952'48	
evening max el	8854 Jul 20 20:31	24° Ω 37′29	19°18'26	asc. node	8855 Jun 18 10:53	12°502'40	
retrograde	8854 Jul 30 03:19	29° Ω 13'13 29° Ω 02'56			8855 Jun 28 13:10	0° Ω 6° Ω 50'28	10024115
evening set	8854 Jul 31 23:56 8854 Aug 05 01:54	29° 81 02′36 27° Ω 36′30		evening max el	8855 Jul 03 22:36 8855 Jul 11 19:30	10°Ω45'41	18°34'15
desc. node	•		1022111	retrograde		10° Ω 30'07	
inferior conj	8854 Aug 09 14:02	24° Ω 54'00 25° Ω 00'07		evening set inferior conj	8855 Jul 13 21:27 8855 Jul 21 16:09	6°Ω02'34	0°23'09
minimum elong min. Earth dist.	8854 Aug 09 10:20 8854 Aug 12 05:38		0.55863 AU	minimum elong	8855 Jul 21 17:00	6° Ω 00'55	0°22'38
morning rise	8854 Aug 17 17:57	23 δ 09 32 20° Ω 14'57	0.55805 AU	desc. node	8855 Jul 22 23:00	5° Ω 02'46	0 22 38
direct	8854 Aug 22 19:00	19° Ω 16'53		min. Earth dist.	8855 Jul 24 23:32	3°Ω30'43	0.57622 AU
morning max el	8854 Sep 05 21:36	26° Ω 25'05	25°23'01	morning rise	8855 Jul 29 09:00	0° Ω 46'29	0.57022 AO
morning max ci	8854 Sep 09 07:59	0° m	23 23 01	morning risc	8855 Jul 31 06:21	0 8€ 40 29	
asc. node	8854 Sep 27 13:38	28° Mp 22'55		direct	8855 Aug 04 05:21	29° © 20'05	
use. Houe	8854 Sep 28 09:19	0° ರ		uncet	8855 Aug 08 05:55	0°Ω	
morning set	8854 Oct 02 19:05	∘ – 9° ჲ 06'14		morning max el	8855 Aug 18 14:07	6° Ω 56'01	26°47'50
morning sec	0031 001 02 17.03	<i>y</i> = 001.		morning max or	8855 Sep 04 18:27	0° m)	20 17 30
superior conj	8854 Oct 09 15:40	24° ≏ 05'38	1°35'10	asc. node	8855 Sep 14 10:34	18° m) 00'35	
minimum elong	8854 Oct 09 14:13	23° ≏ 57'42	1°35'09	morning set	8855 Sep 17 04:56	23° m 45'48	
max. Earth dist.	8854 Oct 10 23:50	27° ჲ 02'22	1.32198 AU		8855 Sep 20 02:20	0∘ ⊽	
	8854 Oct 12 08:24	0° M			1		
evening rise	8854 Oct 16 18:21	9°M22'37		superior conj	8855 Sep 24 03:18	8° ≏ 55'47	1°24'14
-	8854 Oct 27 14:53	0° ∡ ¹		minimum elong	8855 Sep 24 01:14	8° ≏ 44'21	1°24'01
desc. node	8854 Nov 01 00:30	7° ∡ 16'29		max. Earth dist.	8855 Sep 24 08:46	9° ჲ 26'09	1.31682 AU
evening max el	8854 Nov 18 06:54	29° ∡¹ 27'45	27°26'48	evening rise	8855 Sep 30 23:24	23° ჲ 51'33	
	8854 Nov 18 20:45	0°ರ			8855 Oct 03 22:33	0° M	
retrograde	8854 Dec 02 02:12	6° ප 43'58		desc. node	8855 Oct 18 21:34	26°M15'46	
evening set	8854 Dec 09 04:16	4° る 19'58			8855 Oct 21 12:21	0°⊀	
min. Earth dist.	8854 Dec 12 20:43	1° る 22'32	0.62376 AU	evening max el	8855 Oct 31 11:24	11° ∡ ³39'29	26°56'13
	8854 Dec 14 08:12	30°₽ ⋌ ¹		retrograde	8855 Nov 14 09:21	18° ₰ ⁴49'16	
inferior conj	8854 Dec 15 18:23	28° ∡ ³38'57	-2°50'27	evening set	8855 Nov 21 07:01	16° ≯ ⁴46'03	
minimum elong	8854 Dec 15 23:52	28° ₹ ¹26'03	2°48'11	min. Earth dist.	8855 Nov 25 01:53	14° ₰ 07'00	0.60314 AU
morning rise	8854 Dec 22 21:42	23° ≯ 32'58		inferior conj	8855 Nov 28 05:53	11° ₰ ³30'17	
asc. node	8854 Dec 24 13:10	23° ≯ 11'35		minimum elong	8855 Nov 28 13:10	11° ∡ 15′15	3°58'21
direct	8854 Dec 25 04:11	23° ∡ 09'48		morning rise	8855 Dec 05 21:47	6° ∡ ¹44'39 −	
morning max el	8854 Dec 31 22:49	26° ∡ 37'04	17°48'36	direct	8855 Dec 08 02:10	6° ₹ 26'18	
	8855 Jan 03 21:21	0°ප		asc. node	8855 Dec 11 10:13	7° √ 11'11	
morning set		• • • • • • • • •					
	8855 Jan 16 20:06	21° ට 14'48		morning max el	8855 Dec 15 12:25	10° ∡ 07'53	18°04'17
	8855 Jan 21 18:56	0° ≈			8855 Dec 15 12:25 8855 Dec 28 12:40	8°0	18°04'17
desc. node				morning max el	8855 Dec 15 12:25		18°04'17
	8855 Jan 21 18:56 8855 Jan 27 23:47	0°≈ 10°≈40'41	0°01'2°	morning set	8855 Dec 15 12:25 8855 Dec 28 12:40 8855 Dec 31 04:11	0°궁 4°궁54'22	
superior conj	8855 Jan 21 18:56 8855 Jan 27 23:47 8855 Jan 28 05:00	0°≈ 10°≈40'41 11°≈02'46		morning set	8855 Dec 15 12:25 8855 Dec 28 12:40 8855 Dec 31 04:11 8856 Jan 10 00:27	0°る 4°る54'22 22°る57'56	0°35'48
superior conj minimum elong	8855 Jan 21 18:56 8855 Jan 27 23:47 8855 Jan 28 05:00 8855 Jan 28 04:52	0°≈ 10°≈40'41 11°≈02'46 11°≈02'09	-0°01'38 0°01'26	morning set	8855 Dec 15 12:25 8855 Dec 28 12:40 8855 Dec 31 04:11 8856 Jan 10 00:27 8856 Jan 10 03:07	0°る 4°る54'22 22°る57'56 23°る09'47	0°35'48
superior conj minimum elong behind sun begin	8855 Jan 21 18:56 8855 Jan 27 23:47 8855 Jan 28 05:00 8855 Jan 28 04:52 8855 Jan 27 20:00	0°≈ 10°≈40'41 11°≈02'46 11°≈02'09 10°≈24'43		morning set superior conj minimum elong	8855 Dec 15 12:25 8855 Dec 28 12:40 8855 Dec 31 04:11 8856 Jan 10 00:27 8856 Jan 10 03:07 8856 Jan 14 00:52	0°පි 4°පි54'22 22°පි57'56 23°පි09'47 0°≋	0°35'48
superior conj minimum elong behind sun begin behind sun end	8855 Jan 21 18:56 8855 Jan 27 23:47 8855 Jan 28 05:00 8855 Jan 28 04:52 8855 Jan 27 20:00 8855 Jan 28 13:43	0°≈ 10°≈40'41 11°≈02'46 11°≈02'09 10°≈24'43 11°≈39'30	0°01'26	morning set superior conj minimum elong desc. node	8855 Dec 15 12:25 8855 Dec 28 12:40 8855 Dec 31 04:11 8856 Jan 10 00:27 8856 Jan 10 03:07 8856 Jan 14 00:52 8856 Jan 14 20:42	0°පි 4°පි54'22 22°පි57'56 23°පි09'47 0°≈ 1°≈25'05	0°35'48 0°35'37
superior conj minimum elong behind sun begin	8855 Jan 21 18:56 8855 Jan 27 23:47 8855 Jan 28 05:00 8855 Jan 28 04:52 8855 Jan 27 20:00 8855 Jan 28 13:43 8855 Feb 04 03:53	0°≈ 10°≈40'41 11°≈02'46 11°≈02'09 10°≈24'43 11°≈39'30 22°≈31'26		morning set superior conj minimum elong desc. node max. Earth dist.	8855 Dec 15 12:25 8855 Dec 28 12:40 8855 Dec 31 04:11 8856 Jan 10 00:27 8856 Jan 10 03:07 8856 Jan 14 00:52 8856 Jan 14 20:42 8856 Jan 17 15:29	0°ට 4°ට54'22 22°ට57'56 23°ට09'47 0°≈ 1°≈25'05 6°≈07'31	0°35'48
superior conj minimum elong behind sun begin behind sun end max. Earth dist.	8855 Jan 21 18:56 8855 Jan 27 23:47 8855 Jan 28 05:00 8855 Jan 28 04:52 8855 Jan 27 20:00 8855 Jan 28 13:43 8855 Feb 04 03:53 8855 Feb 08 20:24	0°≈ 10°≈40'41 11°≈02'46 11°≈02'09 10°≈24'43 11°≈39'30 22°≈31'26 0°)€	0°01'26	morning set superior conj minimum elong desc. node	8855 Dec 15 12:25 8855 Dec 28 12:40 8855 Dec 31 04:11 8856 Jan 10 00:27 8856 Jan 10 03:07 8856 Jan 14 00:52 8856 Jan 14 20:42 8856 Jan 17 15:29 8856 Jan 23 00:12	0°ට 4°ට 54'22 22°ට 57'56 23°ට 9'47 0°≈ 1°≈25'05 6°≈07'31 14°≈54'25	0°35'48 0°35'37
superior conj minimum elong behind sun begin behind sun end	8855 Jan 21 18:56 8855 Jan 27 23:47 8855 Jan 28 05:00 8855 Jan 28 04:52 8855 Jan 27 20:00 8855 Jan 28 13:43 8855 Feb 04 03:53 8855 Feb 08 20:24 8855 Feb 11 20:52	0°≈ 10°≈40'41 11°≈02'46 11°≈02'09 10°≈24'43 11°≈39'30 22°≈31'26 0° € 4° € 43'10	0°01'26	morning set superior conj minimum elong desc. node max. Earth dist.	8855 Dec 15 12:25 8855 Dec 28 12:40 8855 Dec 31 04:11 8856 Jan 10 00:27 8856 Jan 10 03:07 8856 Jan 14 00:52 8856 Jan 14 20:42 8856 Jan 17 15:29 8856 Jan 23 00:12 8856 Feb 01 17:55	0°ට 4°ට54'22 22°ට57'56 23°ට09'47 0°≈ 1°≈25'05 6°≈07'31 14°≈54'25 0° ₭	0°35'48 0°35'37
superior conj minimum elong behind sun begin behind sun end max. Earth dist. evening rise	8855 Jan 21 18:56 8855 Jan 27 23:47 8855 Jan 28 05:00 8855 Jan 28 04:52 8855 Jan 27 20:00 8855 Jan 28 13:43 8855 Feb 04 03:53 8855 Feb 08 20:24 8855 Feb 11 20:52 8855 Feb 28 19:58	0°≈ 10°≈40'41 11°≈02'46 11°≈02'09 10°≈24'43 11°≈39'30 22°≈31'26 0°)€	0°01'26 1.43676 AU	morning set superior conj minimum elong desc. node max. Earth dist. evening rise	8855 Dec 15 12:25 8855 Dec 28 12:40 8855 Dec 31 04:11 8856 Jan 10 00:27 8856 Jan 10 03:07 8856 Jan 14 00:52 8856 Jan 14 20:42 8856 Jan 17 15:29 8856 Jan 23 00:12 8856 Feb 01 17:55 8856 Feb 24 02:21	0°♂ 4°♂54'22 22°♂57'56 23°♂09'47 0°≈ 1°≈25'05 6°≈07'31 14°≈54'25 0° ¥ 0° Y	0°35'48 0°35'37 1.41890 AU
superior conj minimum elong behind sun begin behind sun end max. Earth dist.	8855 Jan 21 18:56 8855 Jan 27 23:47 8855 Jan 28 05:00 8855 Jan 28 04:52 8855 Jan 27 20:00 8855 Jan 28 13:43 8855 Feb 04 03:53 8855 Feb 08 20:24 8855 Feb 11 20:52	0°≈ 10°≈40'41 11°≈02'46 11°≈02'09 10°≈24'43 11°≈39'30 22°≈31'26 0°₩ 4°₩43'10 0°Ψ 17°♥36'27	0°01'26 1.43676 AU	morning set superior conj minimum elong desc. node max. Earth dist. evening rise	8855 Dec 15 12:25 8855 Dec 28 12:40 8855 Dec 31 04:11 8856 Jan 10 00:27 8856 Jan 10 03:07 8856 Jan 14 00:52 8856 Jan 14 20:42 8856 Jan 17 15:29 8856 Jan 23 00:12 8856 Feb 01 17:55	0°ට 4°ට54'22 22°ට57'56 23°ට09'47 0°≈ 1°≈25'05 6°≈07'31 14°≈54'25 0° ₭	0°35'48 0°35'37 1.41890 AU
superior conj minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el	8855 Jan 21 18:56 8855 Jan 27 23:47 8855 Jan 28 05:00 8855 Jan 28 04:52 8855 Jan 27 20:00 8855 Jan 28 13:43 8855 Feb 04 03:53 8855 Feb 08 20:24 8855 Feb 11 20:52 8855 Feb 28 19:58 8855 Mar 14 15:39	0°≈ 10°≈40'41 11°≈02'46 11°≈02'09 10°≈24'43 11°≈39'30 22°≈31'26 0° ₩ 4° ₩ 43'10 0° Ψ	0°01'26 1.43676 AU	morning set superior conj minimum elong desc. node max. Earth dist. evening rise	8855 Dec 15 12:25 8855 Dec 28 12:40 8855 Dec 31 04:11 8856 Jan 10 00:27 8856 Jan 10 03:07 8856 Jan 14 00:52 8856 Jan 14 20:42 8856 Jan 17 15:29 8856 Jan 23 00:12 8856 Feb 01 17:55 8856 Feb 24 02:21 8856 Feb 25 08:49	0°る 4°る54'22 22°る57'56 23°る09'47 0°≈ 1°≈25'05 6°≈07'31 14°≈54'25 0°升 0°介 1°Ŷ19'06	0°35'48 0°35'37 1.41890 AU

ovening get	8856 Mar 11 03:19	5° Ƴ 16'01		ovening set	8857 Feb 23 08:32	19°) 24'40	
evening set		30°R) €		evening set		19 X 24 40	
	8856 Mar 15 16:15	** -	2022120	asc. node	8857 Feb 23 06:13		0.60227.411
inferior conj	8856 Mar 16 11:49	28°) 52'15		min. Earth dist.	8857 Feb 28 01:57	13°) € 57'25	0.68237 AU
minimum elong	8856 Mar 16 09:35	29°) €00'01	2°21'52	inferior conj	8857 Feb 28 19:57	12° ¥ 56′27	1°43'56
min. Earth dist.	8856 Mar 16 05:31	29°) 14′08	0.68480 AU	minimum elong	8857 Feb 28 17:54	13° 米 03′23	1°43'18
morning rise	8856 Mar 21 15:44	22°) 43′26		morning rise	8857 Mar 06 03:17	6° ¥ 54'01	
direct	8856 Mar 26 05:04	20° ¥ 50′21		direct	8857 Mar 10 03:19	5° ∺ 23′10	
morning max el	8856 Apr 04 03:56	26° ∺ 03'00	21°39'51	morning max el	8857 Mar 17 23:58	9° 升 50′28	20°22'43
	8856 Apr 07 18:18	0 ° Υ		desc. node	8857 Mar 29 17:32	24°) (41′27	
desc. node	8856 Apr 11 20:39	5° Ƴ 07'17			8857 Apr 02 09:38	0 ° Υ	
	8856 Apr 29 03:47	0°B		morning set	8857 Apr 15 10:35	19° Ƴ 41'24	
morning set	8856 May 06 07:47	11° 8 10'53			8857 Apr 22 00:34	0°8	
max. Earth dist.	8856 May 12 13:01	21° 8 16'32	1.41847 AU	max. Earth dist.	8857 Apr 24 20:50	4° 8 32'28	1.43688 AU
	8856 May 17 17:19	$\Pi^{\circ}0$					
				superior conj	8857 May 01 01:45	14° 8 39'25	-2°10'20
superior conj	8856 May 20 03:30	4° Ⅱ 11′26	-1°54'36	minimum elong	8857 May 01 04:31	14° 8 50'53	2°10'26
minimum elong	8856 May 20 09:19	4° Ⅱ 36'50	1°54'19	-	8857 May 10 03:13	$\Pi^{\circ}0$	
evening rise	8856 May 31 02:07	23° ∏ 52′10		evening rise	8857 May 13 15:15	6° Ⅱ 04'59	
	8856 Jun 03 10:40	0.20		asc. node	8857 May 22 04:57	20° ∏ 48′28	
asc. node	8856 Jun 04 07:54	1° © 35'48			8857 May 28 09:46	0ಂತಿ	
evening max el	8856 Jun 16 08:00	19° © 36'45	18°10'18	evening max el	8857 May 30 20:59	2° © 47'11	18°05'42
retrograde	8856 Jun 23 06:06	23°506'46	10 10 10	retrograde	8857 Jun 06 07:45	6°907'49	10 03 42
•	8856 Jun 25 15:45	23 \$300 40 22°\$42'02		evening set	8857 Jun 09 00:58	5°931'18	
evening set			1044116	Č			2020110
inferior conj	8856 Jul 02 15:36	17°553'53	1°44'16	inferior conj	8857 Jun 15 09:28	0°523'23	
minimum elong	8856 Jul 02 18:26	17°5647'30	1°43'08	minimum elong	8857 Jun 15 12:13	0°516'15	2°3/18
min. Earth dist.	8856 Jul 05 23:53	14°954'54	0.59798 AU		8857 Jun 15 18:30	30°R∏	
desc. node	8856 Jul 08 20:06	12° © 43'25		min. Earth dist.	8857 Jun 18 08:38	27° Ⅱ 21'14	0.62052 AU
morning rise	8856 Jul 09 18:10	12° © 08'12		morning rise	8857 Jun 21 21:30	24° ∏ 18′28	
direct	8856 Jul 16 04:52	10° © 10'39		desc. node	8857 Jun 25 17:10	22° Ⅱ 20'52	
morning max el	8856 Jul 30 13:11	18° © 03'43	27°40'51	direct	8857 Jun 28 15:00	21° ∏ 54′22	
	8856 Aug 09 12:49	$0 {\circ} \Omega$			8857 Jul 12 20:14	0	
	8856 Aug 27 10:22	0° m y		morning max el	8857 Jul 12 18:34	29° Ⅱ 55'49	27°55'53
morning set	8856 Aug 31 11:20	8° Mp 12'18			8857 Aug 03 13:47	$0 { m ^o} \Omega$	
asc. node	8856 Aug 31 07:29	7° m 52′13		morning set	8857 Aug 15 12:20	22° Ω 20′19	
max. Earth dist.	8856 Sep 06 18:35	21°Mp49'41	1.31629 AU	asc. node	8857 Aug 18 04:25	27° Ω 52'53	
					8857 Aug 19 04:24	O° Mp	
superior conj	8856 Sep 07 14:48	23° m 41'42	1°08'09	max. Earth dist.	8857 Aug 21 01:28	4°₩02'12	1.32051 AU
minimum elong	8856 Sep 07 12:34	23° m 29'16	1°07'46		-		
C	8856 Sep 10 11:04	0∘ <u>⊽</u>		superior conj	8857 Aug 23 00:24	8° m) 17'55	0°47'17
evening rise	8856 Sep 14 08:33	8° ≏ 29'40		minimum elong	8857 Aug 22 22:29	8° mp 07'21	0°46'49
Č	8856 Sep 25 09:06	0°M		evening rise	8857 Aug 29 19:50	23° m 10'54	
desc. node	8856 Oct 04 18:41	14°M22'54		<i>3</i> 22	8857 Sep 02 01:46	0∘ ⊽	
evening max el	8856 Oct 12 08:26	23°M01'21	25°52'39		8857 Sep 20 12:24	0°M	
evening max er	8856 Oct 24 22:59	0° √	25 52 57	desc. node	8857 Sep 21 15:50		
retrograde	8856 Oct 26 06:34	0° ∡ °04'08		dese. Hode			
retrograde				evening may el	•	1°ML17'02	24023125
				evening max el	8857 Sep 23 21:53	3°M35'44	24°23'25
ovening set	8856 Oct 27 14:04	30°RM		retrograde	8857 Sep 23 21:53 8857 Oct 07 15:54	3°M35'44 10°M29'46	24°23'25
evening set	8856 Oct 27 14:04 8856 Nov 01 13:06	30°RM 28°M31'29	0.59226 AU	retrograde evening set	8857 Sep 23 21:53 8857 Oct 07 15:54 8857 Oct 12 18:35	3°M35'44 10°M29'46 9°M31'59	
min. Earth dist.	8856 Oct 27 14:04 8856 Nov 01 13:06 8856 Nov 05 21:08	30°RM 28°M31'29 25°M55'55	0.58236 AU	retrograde evening set min. Earth dist.	8857 Sep 23 21:53 8857 Oct 07 15:54 8857 Oct 12 18:35 8857 Oct 18 08:45	3°M35'44 10°M29'46 9°M31'59 6°M41'24	0.56397 AU
min. Earth dist. inferior conj	8856 Oct 27 14:04 8856 Nov 01 13:06 8856 Nov 05 21:08 8856 Nov 08 23:27	30°RM 28°M31'29 25°M55'55 23°M42'52	-5°01'05	retrograde evening set min. Earth dist. inferior conj	8857 Sep 23 21:53 8857 Oct 07 15:54 8857 Oct 12 18:35 8857 Oct 18 08:45 8857 Oct 20 20:38	3°M35'44 10°M29'46 9°M31'59 6°M41'24 5°M07'45	0.56397 AU -5°35'37
min. Earth dist. inferior conj minimum elong	8856 Oct 27 14:04 8856 Nov 01 13:06 8856 Nov 05 21:08 8856 Nov 08 23:27 8856 Nov 09 06:16	30°RM 28°M31'29 25°M55'55 23°M42'52 23°M30'36	-5°01'05	retrograde evening set min. Earth dist. inferior conj minimum elong	8857 Sep 23 21:53 8857 Oct 07 15:54 8857 Oct 12 18:35 8857 Oct 18 08:45 8857 Oct 20 20:38 8857 Oct 20 22:49	3°M35'44 10°M29'46 9°M31'59 6°M41'24 5°M07'45 5°M04'19	0.56397 AU -5°35'37
min. Earth dist. inferior conj minimum elong morning rise	8856 Oct 27 14:04 8856 Nov 01 13:06 8856 Nov 05 21:08 8856 Nov 08 23:27 8856 Nov 09 06:16 8856 Nov 17 01:44	30°RM 28°M31'29 25°M55'55 23°M42'52 23°M30'36 19°M19'41	-5°01'05	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	8857 Sep 23 21:53 8857 Oct 07 15:54 8857 Oct 12 18:35 8857 Oct 18 08:45 8857 Oct 20 20:38 8857 Oct 20 22:49 8857 Oct 29 05:11	3°M35'44 10°M29'46 9°M31'59 6°M41'24 5°M07'45 5°M04'19 1°M06'21	0.56397 AU -5°35'37
min. Earth dist. inferior conj minimum elong morning rise direct	8856 Oct 27 14:04 8856 Nov 01 13:06 8856 Nov 05 21:08 8856 Nov 08 23:27 8856 Nov 09 06:16 8856 Nov 17 01:44 8856 Nov 19 08:41	30°RM 28°M31'29 25°M55'55 23°M42'52 23°M30'36 19°M19'41	-5°01'05	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	8857 Sep 23 21:53 8857 Oct 07 15:54 8857 Oct 12 18:35 8857 Oct 18 08:45 8857 Oct 20 20:38 8857 Oct 20 22:49 8857 Oct 29 05:11 8857 Oct 31 20:11	3°M35'44 10°M29'46 9°M31'59 6°M41'24 5°M07'45 5°M04'19 1°M06'21 0°M47'57	0.56397 AU -5°35'37 5°35'22
min. Earth dist. inferior conj minimum elong morning rise direct asc. node	8856 Oct 27 14:04 8856 Nov 01 13:06 8856 Nov 05 21:08 8856 Nov 08 23:27 8856 Nov 09 06:16 8856 Nov 17 01:44 8856 Nov 19 08:41 8856 Nov 27 07:14	30°RM 28°M31'29 25°M55'55 23°M42'52 23°M30'36 19°M19'41 19°M02'51 22°M40'13	-5°01'05 4°59'35	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	8857 Sep 23 21:53 8857 Oct 07 15:54 8857 Oct 12 18:35 8857 Oct 18 08:45 8857 Oct 20 20:38 8857 Oct 20 22:49 8857 Oct 29 05:11 8857 Oct 31 20:11 8857 Nov 10 14:39	3°M35'44 10°M29'46 9°M31'59 6°M41'24 5°M07'45 5°M04'19 1°M06'21 0°M47'57 5°M25'18	0.56397 AU -5°35'37
min. Earth dist. inferior conj minimum elong morning rise direct	8856 Oct 27 14:04 8856 Nov 01 13:06 8856 Nov 05 21:08 8856 Nov 08 23:27 8856 Nov 09 06:16 8856 Nov 17 01:44 8856 Nov 19 08:41	30°RM 28°M31'29 25°M55'55 23°M42'52 23°M30'36 19°M19'41 19°M02'51 22°M40'13 23°M07'37	-5°01'05	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	8857 Sep 23 21:53 8857 Oct 07 15:54 8857 Oct 12 18:35 8857 Oct 18 08:45 8857 Oct 20 20:38 8857 Oct 20 22:49 8857 Oct 29 05:11 8857 Oct 31 20:11 8857 Nov 10 14:39 8857 Nov 14 04:14	3°M35'44 10°M29'46 9°M31'59 6°M41'24 5°M07'45 5°M04'19 1°M06'21 0°M47'57 5°M25'18 9°M23'37	0.56397 AU -5°35'37 5°35'22
min. Earth dist. inferior conj minimum elong morning rise direct asc. node	8856 Oct 27 14:04 8856 Nov 01 13:06 8856 Nov 05 21:08 8856 Nov 08 23:27 8856 Nov 09 06:16 8856 Nov 17 01:44 8856 Nov 19 08:41 8856 Nov 27 07:14 8856 Nov 27 18:54 8856 Dec 03 07:30	30°RM 28°M31'29 25°M55'55 23°M42'52 23°M30'36 19°M19'41 19°M02'51 22°M40'13 23°M07'37 0°⊀	-5°01'05 4°59'35	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	8857 Sep 23 21:53 8857 Oct 07 15:54 8857 Oct 12 18:35 8857 Oct 18 08:45 8857 Oct 20 20:38 8857 Oct 20 22:49 8857 Oct 29 05:11 8857 Oct 31 20:11 8857 Nov 10 14:39	3°M35'44 10°M29'46 9°M31'59 6°M41'24 5°M07'45 5°M04'19 1°M06'21 0°M47'57 5°M25'18	0.56397 AU -5°35'37 5°35'22
min. Earth dist. inferior conj minimum elong morning rise direct asc. node	8856 Oct 27 14:04 8856 Nov 01 13:06 8856 Nov 05 21:08 8856 Nov 08 23:27 8856 Nov 09 06:16 8856 Nov 17 01:44 8856 Nov 19 08:41 8856 Nov 27 07:14 8856 Nov 27 18:54	30°RM 28°M31'29 25°M55'55 23°M42'52 23°M30'36 19°M19'41 19°M02'51 22°M40'13 23°M07'37 0°⊀ 19°⊀05'38	-5°01'05 4°59'35	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	8857 Sep 23 21:53 8857 Oct 07 15:54 8857 Oct 12 18:35 8857 Oct 18 08:45 8857 Oct 20 20:38 8857 Oct 20 22:49 8857 Oct 29 05:11 8857 Oct 31 20:11 8857 Nov 10 14:39 8857 Nov 14 04:14	3°M35'44 10°M29'46 9°M31'59 6°M41'24 5°M07'45 5°M04'19 1°M06'21 0°M47'57 5°M25'18 9°M23'37	0.56397 AU -5°35'37 5°35'22
min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	8856 Oct 27 14:04 8856 Nov 01 13:06 8856 Nov 05 21:08 8856 Nov 08 23:27 8856 Nov 09 06:16 8856 Nov 17 01:44 8856 Nov 19 08:41 8856 Nov 27 07:14 8856 Nov 27 18:54 8856 Dec 03 07:30	30°RM 28°M31'29 25°M55'55 23°M42'52 23°M30'36 19°M19'41 19°M02'51 22°M40'13 23°M07'37 0°⊀	-5°01'05 4°59'35	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	8857 Sep 23 21:53 8857 Oct 07 15:54 8857 Oct 12 18:35 8857 Oct 18 08:45 8857 Oct 20 20:38 8857 Oct 20 22:49 8857 Oct 29 05:11 8857 Oct 31 20:11 8857 Nov 10 14:39 8857 Nov 14 04:14 8857 Nov 26 07:39	3°M35'44 10°M29'46 9°M31'59 6°M41'24 5°M07'45 5°M04'19 1°M06'21 0°M47'57 5°M25'18 9°M23'37 0°\$\mathref{x}\$	0.56397 AU -5°35'37 5°35'22
min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	8856 Oct 27 14:04 8856 Nov 01 13:06 8856 Nov 05 21:08 8856 Nov 08 23:27 8856 Nov 09 06:16 8856 Nov 17 01:44 8856 Nov 19 08:41 8856 Nov 27 07:14 8856 Nov 27 18:54 8856 Dec 03 07:30 8856 Dec 13 23:45	30°RM 28°M31'29 25°M55'55 23°M42'52 23°M30'36 19°M19'41 19°M02'51 22°M40'13 23°M07'37 0°⊀ 19°⊀05'38	-5°01'05 4°59'35	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	8857 Sep 23 21:53 8857 Oct 07 15:54 8857 Oct 12 18:35 8857 Oct 18 08:45 8857 Oct 20 20:38 8857 Oct 20 22:49 8857 Oct 29 05:11 8857 Oct 31 20:11 8857 Nov 10 14:39 8857 Nov 14 04:14 8857 Nov 26 07:39	3°M35'44 10°M29'46 9°M31'59 6°M41'24 5°M07'45 5°M04'19 1°M06'21 0°M47'57 5°M25'18 9°M23'37 0°\$\mathref{x}\$	0.56397 AU -5°35'37 5°35'22
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min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	8856 Oct 27 14:04 8856 Nov 01 13:06 8856 Nov 05 21:08 8856 Nov 08 23:27 8856 Nov 09 06:16 8856 Nov 17 01:44 8856 Nov 19 08:41 8856 Nov 27 07:14 8856 Nov 27 18:54 8856 Dec 03 07:30 8856 Dec 13 23:45 8856 Dec 19 14:35	30°RM 28°M31'29 25°M55'55 23°M42'52 23°M30'36 19°M19'41 19°M02'51 22°M40'13 23°M07'37 0°₹ 19°₹05'38	-5°01'05 4°59'35 18°40'28	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj	8857 Sep 23 21:53 8857 Oct 07 15:54 8857 Oct 12 18:35 8857 Oct 18 08:45 8857 Oct 20 20:38 8857 Oct 20 22:49 8857 Oct 31 20:11 8857 Nov 10 14:39 8857 Nov 14 04:14 8857 Nov 26 07:39 8857 Nov 28 03:00 8857 Dec 06 00:37	3°M.35'44 10°M.29'46 9°M.31'59 6°M.41'24 5°M.07'45 5°M.04'19 1°M.06'21 0°M.47'57 5°M.25'18 9°M.23'37 0° 🗷 3° 🗷 36'51 19° 🗷 30'38	0.56397 AU -5°35'37 5°35'22 19°38'53
min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	8856 Oct 27 14:04 8856 Nov 01 13:06 8856 Nov 05 21:08 8856 Nov 08 23:27 8856 Nov 09 06:16 8856 Nov 17 01:44 8856 Nov 19 08:41 8856 Nov 27 07:14 8856 Nov 27 18:54 8856 Dec 03 07:30 8856 Dec 13 23:45 8856 Dec 19 14:35	30°RM 28°M31'29 25°M55'55 23°M42'52 23°M30'36 19°M19'41 19°M02'51 22°M40'13 23°M07'37 0°♂ 19°♂05'38 0°♂	-5°01'05 4°59'35 18°40'28	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj	8857 Sep 23 21:53 8857 Oct 07 15:54 8857 Oct 12 18:35 8857 Oct 18 08:45 8857 Oct 20 20:38 8857 Oct 20 22:49 8857 Oct 29 05:11 8857 Oct 31 20:11 8857 Nov 10 14:39 8857 Nov 14 04:14 8857 Nov 26 07:39 8857 Nov 28 03:00 8857 Dec 06 00:37 8857 Dec 06 03:19	3°M.35'44 10°M.29'46 9°M.31'59 6°M.41'24 5°M.07'45 5°M.04'19 1°M.06'21 0°M.47'57 5°M.25'18 9°M.23'37 0° 🗷 3° 🗷 36'51	0.56397 AU -5°35'37 5°35'22 19°38'53
min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	8856 Oct 27 14:04 8856 Nov 01 13:06 8856 Nov 05 21:08 8856 Nov 08 23:27 8856 Nov 09 06:16 8856 Nov 17 01:44 8856 Nov 19 08:41 8856 Nov 27 07:14 8856 Nov 27 18:54 8856 Dec 03 07:30 8856 Dec 13 23:45 8856 Dec 19 14:35 8856 Dec 22 16:42 8856 Dec 22 20:02	30°RM 28°M31'29 25°M55'55 23°M42'52 23°M30'36 19°M19'41 19°M02'51 22°M40'13 23°M07'37 0°ズ 19°ズ05'38 0°G 5°G52'13 6°G07'50	-5°01'05 4°59'35 18°40'28 1°04'36 1°04'25	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong	8857 Sep 23 21:53 8857 Oct 07 15:54 8857 Oct 12 18:35 8857 Oct 18 08:45 8857 Oct 20 20:38 8857 Oct 20 22:49 8857 Oct 29 05:11 8857 Oct 31 20:11 8857 Nov 10 14:39 8857 Nov 14 04:14 8857 Nov 26 07:39 8857 Nov 28 03:00 8857 Dec 06 00:37 8857 Dec 06 03:19 8857 Dec 11 11:34	3°M35'44 10°M29'46 9°M31'59 6°M41'24 5°M07'45 5°M04'19 1°M06'21 0°M47'57 5°M25'18 9°M23'37 0° 3° 3° 3° 3° 3° 3° 3° 3° 3°	0.56397 AU -5°35'37 5°35'22 19°38'53 1°24'35 1°24'33
min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist.	8856 Oct 27 14:04 8856 Nov 01 13:06 8856 Nov 05 21:08 8856 Nov 08 23:27 8856 Nov 09 06:16 8856 Nov 17 01:44 8856 Nov 19 08:41 8856 Nov 27 07:14 8856 Nov 27 18:54 8856 Dec 03 07:30 8856 Dec 13 23:45 8856 Dec 19 14:35 8856 Dec 22 16:42 8856 Dec 22 20:02 8856 Dec 29 23:04	30°RM 28°M31'29 25°M55'55 23°M42'52 23°M30'36 19°M19'41 19°M02'51 22°M40'13 23°M07'37 0°ズ 19°ズ05'38 0°G 5°G52'13 6°G07'50 19°G03'49	-5°01'05 4°59'35 18°40'28 1°04'36 1°04'25	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	8857 Sep 23 21:53 8857 Oct 07 15:54 8857 Oct 12 18:35 8857 Oct 18 08:45 8857 Oct 20 20:38 8857 Oct 20 22:49 8857 Oct 29 05:11 8857 Oct 31 20:11 8857 Nov 10 14:39 8857 Nov 14 04:14 8857 Nov 26 07:39 8857 Nov 28 03:00 8857 Dec 06 00:37 8857 Dec 06 03:19 8857 Dec 11 11:34 8857 Dec 12 05:09	3°M35'44 10°M29'46 9°M31'59 6°M41'24 5°M07'45 5°M04'19 1°M06'21 0°M47'57 5°M25'18 9°M23'37 0°\$\textstyle{\mathbb{Z}}337 3°\$\textstyle{\mathbb{Z}}36'51 19°\$\textstyle{\mathbb{Z}}30'38 19°\$\textstyle{\mathbb{Z}}30'38 19°\$\textstyle{\mathbb{Z}}31'48	0.56397 AU -5°35'37 5°35'22 19°38'53 1°24'35 1°24'33
min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node	8856 Oct 27 14:04 8856 Nov 01 13:06 8856 Nov 05 21:08 8856 Nov 08 23:27 8856 Nov 09 06:16 8856 Nov 17 01:44 8856 Nov 19 08:41 8856 Nov 27 07:14 8856 Nov 27 18:54 8856 Dec 03 07:30 8856 Dec 13 23:45 8856 Dec 19 14:35 8856 Dec 22 16:42 8856 Dec 22 20:02 8856 Dec 29 23:04 8856 Dec 31 17:39	30°RM 28°M31'29 25°M55'55 23°M42'52 23°M30'36 19°M19'41 19°M02'51 22°M40'13 23°M07'37 0°ズ 19°ズ05'38 0°G 5°G52'13 6°G07'50 19°G03'49 22°G08'41	-5°01'05 4°59'35 18°40'28 1°04'36 1°04'25	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	8857 Sep 23 21:53 8857 Oct 07 15:54 8857 Oct 12 18:35 8857 Oct 18 08:45 8857 Oct 20 20:38 8857 Oct 20 22:49 8857 Oct 29 05:11 8857 Oct 31 20:11 8857 Nov 10 14:39 8857 Nov 14 04:14 8857 Nov 26 07:39 8857 Nov 28 03:00 8857 Dec 06 00:37 8857 Dec 06 03:19 8857 Dec 11 11:34 8857 Dec 12 05:09 8857 Dec 15 22:30	3°M35'44 10°M29'46 9°M31'59 6°M41'24 5°M07'45 5°M04'19 1°M06'21 0°M47'57 5°M25'18 9°M23'37 0° ¾ 3°¾36'51 19°¾30'38 19°¾43'58 0° む 1°む21'48	0.56397 AU -5°35'37 5°35'22 19°38'53 1°24'35 1°24'33
min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node	8856 Oct 27 14:04 8856 Nov 01 13:06 8856 Nov 05 21:08 8856 Nov 08 23:27 8856 Nov 09 06:16 8856 Nov 17 01:44 8856 Nov 19 08:41 8856 Nov 27 07:14 8856 Nov 27 18:54 8856 Dec 03 07:30 8856 Dec 13 23:45 8856 Dec 19 14:35 8856 Dec 22 16:42 8856 Dec 22 20:02 8856 Dec 29 23:04 8856 Dec 31 17:39 8857 Jan 03 00:41	30°RM 28°M31'29 25°M55'55 23°M42'52 23°M30'36 19°M19'41 19°M02'51 22°M40'13 23°M07'37 0°ズ 19°ズ05'38 0°उ 5°उ52'13 6°उ07'50 19°उ03'49 22°उ08'41 26°उ02'51	-5°01'05 4°59'35 18°40'28 1°04'36 1°04'25	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	8857 Sep 23 21:53 8857 Oct 07 15:54 8857 Oct 12 18:35 8857 Oct 18 08:45 8857 Oct 20 20:38 8857 Oct 20 22:49 8857 Oct 29 05:11 8857 Oct 31 20:11 8857 Nov 10 14:39 8857 Nov 14 04:14 8857 Nov 26 07:39 8857 Nov 28 03:00 8857 Dec 06 00:37 8857 Dec 06 03:19 8857 Dec 11 11:34 8857 Dec 12 05:09 8857 Dec 15 22:30 8857 Dec 18 14:38	3°M35'44 10°M29'46 9°M31'59 6°M41'24 5°M07'45 5°M04'19 1°M06'21 0°M47'57 5°M25'18 9°M23'37 0°ズ 3°ズ36'51 19°ズ30'38 19°ズ43'58 0°℧ 1°℧21'48 8°℧07'00 12°℧47'13	0.56397 AU -5°35'37 5°35'22 19°38'53 1°24'35 1°24'33 1.37617 AU
min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node	8856 Oct 27 14:04 8856 Nov 01 13:06 8856 Nov 05 21:08 8856 Nov 08 23:27 8856 Nov 09 06:16 8856 Nov 17 01:44 8856 Nov 19 08:41 8856 Nov 27 07:14 8856 Nov 27 18:54 8856 Dec 03 07:30 8856 Dec 13 23:45 8856 Dec 19 14:35 8856 Dec 22 16:42 8856 Dec 22 20:02 8856 Dec 29 23:04 8856 Dec 31 17:39 8857 Jan 03 00:41 8857 Jan 05 09:42	30°RM 28°M31'29 25°M55'55 23°M42'52 23°M30'36 19°M19'41 19°M02'51 22°M40'13 23°M07'37 0°ズ 19°ズ05'38 0°उ 5°उ52'13 6°उ07'50 19°उ03'49 22°उ08'41 26°उ02'51 0°≈	-5°01'05 4°59'35 18°40'28 1°04'36 1°04'25 1.39791 AU	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	8857 Sep 23 21:53 8857 Oct 07 15:54 8857 Oct 12 18:35 8857 Oct 18 08:45 8857 Oct 20 20:38 8857 Oct 20 22:49 8857 Oct 29 05:11 8857 Oct 31 20:11 8857 Nov 10 14:39 8857 Nov 14 04:14 8857 Nov 26 07:39 8857 Nov 28 03:00 8857 Dec 06 00:37 8857 Dec 06 03:19 8857 Dec 11 11:34 8857 Dec 12 05:09 8857 Dec 15 22:30 8857 Dec 18 14:38 8857 Dec 29 05:40	3°M35'44 10°M29'46 9°M31'59 6°M41'24 5°M07'45 5°M04'19 1°M06'21 0°M47'57 5°M25'18 9°M23'37 0°ズ 3°ズ36'51 19°ズ30'38 19°ズ43'58 0°℧ 1°℧21'48 8°℧07'00 12°℧47'13 0°≈	0.56397 AU -5°35'37 5°35'22 19°38'53 1°24'35 1°24'33 1.37617 AU
min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise	8856 Oct 27 14:04 8856 Nov 01 13:06 8856 Nov 05 21:08 8856 Nov 08 23:27 8856 Nov 09 06:16 8856 Nov 17 01:44 8856 Nov 19 08:41 8856 Nov 27 07:14 8856 Nov 27 18:54 8856 Dec 03 07:30 8856 Dec 13 23:45 8856 Dec 19 14:35 8856 Dec 22 16:42 8856 Dec 22 20:02 8856 Dec 29 23:04 8856 Dec 31 17:39 8857 Jan 03 00:41 8857 Jan 05 09:42 8857 Jan 25 10:03	30°RM 28°M31'29 25°M55'55 23°M42'52 23°M30'36 19°M19'41 19°M02'51 22°M40'13 23°M07'37 0°ズ 19°ズ05'38 0°उ 5°उ52'13 6°उ07'50 19°उ03'49 22°उ08'41 26°उ02'51 0°≈ 0°米	-5°01'05 4°59'35 18°40'28 1°04'36 1°04'25 1.39791 AU	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	8857 Sep 23 21:53 8857 Oct 07 15:54 8857 Oct 12 18:35 8857 Oct 18 08:45 8857 Oct 20 20:38 8857 Oct 20 22:49 8857 Oct 29 05:11 8857 Oct 31 20:11 8857 Nov 10 14:39 8857 Nov 14 04:14 8857 Nov 26 07:39 8857 Nov 28 03:00 8857 Dec 06 00:37 8857 Dec 06 03:19 8857 Dec 11 11:34 8857 Dec 12 05:09 8857 Dec 15 22:30 8857 Dec 18 14:38 8857 Dec 29 05:40 8858 Jan 20 12:25	3°M35'44 10°M29'46 9°M31'59 6°M41'24 5°M07'45 5°M04'19 1°M06'21 0°M47'57 5°M25'18 9°M23'37 0°ズ 3°ズ36'51 19°ズ30'38 19°ズ43'58 0°उ 1°उ21'48 8°उ07'00 12°उ47'13 0°≈ 28°≈53'40	0.56397 AU -5°35'37 5°35'22 19°38'53 1°24'35 1°24'33 1.37617 AU

arraning got	8858 Feb 07 09:57	3°) €28'06		avanina aat	8859 Jan 22 05:48	1790021154	
evening set				evening set		17°≈21'54	0.66560 ATT
asc. node	8858 Feb 10 03:22	0°) (41'13		min. Earth dist.	8859 Jan 26 09:23	13°≈04'03	0.66569 AU
	8858 Feb 10 17:07	30°R≈		inferior conj	8859 Jan 28 02:35	10° ≈ 59'03	0°01'45
min. Earth dist.	8858 Feb 11 19:58	28° ≈ 35'40	0.67595 AU	minimum elong	8859 Jan 28 02:32	10° ≈ 59'13	0°01'56
inferior conj	8858 Feb 13 01:31	26° ≈ 59'57	0°56'53	transit middle	8859 Jan 28 02:32	10° ≈ 59'13	0°01'56
minimum elong	8858 Feb 13 00:11	27° ≈ 04'17	0°56'31	transit begin	8859 Jan 27 23:40	11° ≈ 07'56	
morning rise	8858 Feb 18 14:47	21° ≈ 05'31		transit end	8859 Jan 28 05:24	10° ≈ 50'30	
direct	8858 Feb 22 02:30	19° ≈ 55'34		asc. node	8859 Jan 28 00:29	11° ≈ 05'27	
morning max el	8858 Mar 01 04:02	23° ≈ 49′26	19°19'29	morning rise	8859 Feb 03 00:05	5°≈14'35	
	8858 Mar 06 10:19	0° ∀		direct	8859 Feb 06 00:59	4°≈22'36	
greatest brilliancy	8858 Mar 14 02:42	10°) €56'03	-0.7m	morning max el	8859 Feb 12 15:06	7°≈55'43	18°32'07
desc. node	8858 Mar 16 14:26	14°) 40'26	0.7111	morning man vi	8859 Feb 28 07:55	0° ∀	10 32 07
morning set	8858 Mar 25 10:07	28°) 10'55		desc. node	8859 Mar 03 11:20	4°) 57'38	
morning set		26 γ (1033					
m at the	8858 Mar 26 14:22		1 11055 177	morning set	8859 Mar 05 05:24	7°) (43'58	
max. Earth dist.	8858 Apr 07 11:17	18° Ƴ 30'47	1.44955 AU		8859 Mar 19 09:16	0° Υ	
	0050 4 40 00 50	2.40000.5142	2000116		005034 01 0606	200050140	1045156
superior conj	8858 Apr 10 23:52	24° Y ′05'43		superior conj	8859 Mar 21 06:26	2° Y 56'40	
minimum elong	8858 Apr 10 19:51	23° Ƴ 49'48	2°09'13	minimum elong	8859 Mar 20 21:07	2° Y 20'15	
	8858 Apr 14 16:25	9° 8		max. Earth dist.	8859 Mar 21 05:33	2° Y 53′15	1.45529 AU
evening rise	8858 Apr 25 07:07	17° 8 21'43		evening rise	8859 Apr 05 23:15	27° Ƴ 39'46	
	8858 May 02 22:30	$\Pi^{\circ}0$			8859 Apr 07 10:34	8°	
asc. node	8858 May 09 02:03	9° Ⅲ 33'32		greatest brilliancy	8859 Apr 14 20:15	11° 8 43'19	-0.8m
evening max el	8858 May 14 10:14	16° Ⅱ 13′08	18°19'49	asc. node	8859 Apr 25 23:10	27° 8 41'29	
retrograde	8858 May 20 19:50	19° Ⅱ 38'52		evening max el	8859 Apr 27 21:03	29° 8 47'24	18°51'50
evening set	8858 May 23 20:23	18° Ⅱ 48'57		evening max or	8859 Apr 28 02:07	0°II	10 3130
C	•	13° П 23'09	3°08'55	ratragrada	8859 May 04 14:18	3° П 30'55	
inferior conj	8858 May 29 17:35			retrograde			
minimum elong	8858 May 29 19:17	13° Ⅱ 18'15	3°08'28	evening set	8859 May 07 22:25	2° Ⅱ 26'41	
min. Earth dist.	8858 Jun 01 02:54	10° Ⅲ 38'47	0.64119 AU		8859 May 10 18:03	30° ₹ 8	
morning rise	8858 Jun 04 17:02	7° Ⅱ 08'04		inferior conj	8859 May 13 12:01	26° 8 44'44	3°21'16
direct	8858 Jun 11 09:53	4° Ⅱ 27'04		minimum elong	8859 May 13 12:25	26° 8 43'29	3°21'04
desc. node	8858 Jun 12 14:12	4° Ⅱ 31'37		min. Earth dist.	8859 May 15 06:07	24° 8 33'00	0.65849 AU
morning max el	8858 Jun 25 04:03	12° Ⅱ 27'45	27°33'58	morning rise	8859 May 19 01:49	20° 8 25'59	
	8858 Jul 09 03:57	0 \circ \odot		direct	8859 May 25 12:18	17° 8 39'46	
	8858 Jul 27 02:22	$0^{\circ}\Omega$		desc. node	8859 May 30 11:13	19° 8 00'32	
morning set	8858 Jul 30 05:33	6° Ω 03'39		morning max el	8859 Jun 07 14:42	25° 8 26'42	26°40'58
max. Earth dist.	8858 Aug 04 01:38	15° Ω 53'52	1.32955 AU	Č	8859 Jun 11 18:27	0°Ⅲ	
asc. node	8858 Aug 05 01:23	17° Ω 58'28	1.52,00110		8859 Jul 02 16:07	0°9	
ase. Houe	0030 / lug 03 01.23	17 003020		morning set	8859 Jul 13 11:42	19° © 12'35	
aumorior comi	8858 Aug 07 06:10	22° Ω 39'07	0022102	•	8859 Jul 17 15:30		1 24249 ATT
superior conj	Č			max. Earth dist.			1.34348 AU
minimum elong	8858 Aug 07 05:07	22° Ω 33'27	0°21′40		8859 Jul 18 23:59	0 ° Ω	
	8858 Aug 10 15:57	0°Ту				_	
evening rise	8858 Aug 14 07:22	7° ™ 49'54		superior conj	8859 Jul 22 05:45	6° Ω 38'01	
	8858 Aug 25 21:05	0∘ ⊽		minimum elong	8859 Jul 22 06:08	6° Ω 40'03	0°07'04
evening max el	8858 Sep 05 09:14	13° ≏ 47'02	22°43'45	behind sun begin	8859 Jul 22 00:54	6° Ω 12'53	
desc. node	8858 Sep 08 12:59	16° ≏ 31'16		behind sun end	8859 Jul 22 11:22	7° Ω 07'15	
retrograde	8858 Sep 18 13:11	20° ≏ 21'18		asc. node	8859 Jul 22 22:20	8° Ω 04'16	
evening set	8858 Sep 22 03:35	19° ≙ 52'52		evening rise	8859 Jul 29 17:05	22° Ω 19'48	
min. Earth dist.	8858 Sep 29 17:01	16° ≏ 29'38	0.55112 AU		8859 Aug 02 11:03	0° m	
inferior conj	8858 Sep 30 23:12	15° ≏ 46'33		evening max el	8859 Aug 18 03:42	24° m 11'42	21°10'13
minimum elong	8858 Sep 30 17:43	15° ≏ 54'24		desc. node	8859 Aug 26 10:09	29° m 33'27	
morning rise	8858 Oct 09 09:48	11° ⊆ 58'17	3 23 33	dese. Hode	8859 Aug 28 10:55	0ಂ ರ	
direct	8858 Oct 12 13:18	11° ⊆ 35'32		retrograde	8859 Aug 30 02:00	0° ჲ 06'27	
			20050124	renograde	•		
morning max el	8858 Oct 23 21:27	16° £ 54'35	20°59'34		8859 Aug 31 17:44	30°R Mp	
asc. node	8858 Nov 01 01:13	27° Ω 06'01		evening set	8859 Sep 01 10:42	29° m 53'26	
	8858 Nov 02 20:30	0° M		inferior conj	8859 Sep 10 15:54	25° Mp 56'41	-4°17'48
morning set	8858 Nov 12 11:08	18° ™ 19'57		minimum elong	8859 Sep 10 06:15	26° Mp 10'17	4°15'14
	8858 Nov 18 01:12	0° ∡		min. Earth dist.	8859 Sep 11 01:40	25°M/42'55	0.54662 AU
				morning rise	8859 Sep 19 02:19	22° m 03'09	
superior conj	8858 Nov 19 19:49	3° ∡ ¹40'41	1°36'23	direct	8859 Sep 22 21:29	21°M/32'05	
minimum elong	8858 Nov 19 21:20	3° ∡¹ 48'27	1°36'30	morning max el	8859 Oct 05 16:21	27° m 37'41	22°38'24
max. Earth dist.	8858 Nov 24 14:14	13° ∡ 16'55	1.35607 AU	-	8859 Oct 08 00:37	0∘ ⊽	
evening rise	8858 Nov 28 14:45	20° х 59'33		asc. node	8859 Oct 18 22:10	15° ≏ 33'21	
5	8858 Dec 03 14:13	0°ප			8859 Oct 26 09:59	0°M	
desc. node	8858 Dec 05 11:40	3° る 16'26		morning set	8859 Oct 27 21:58	3°M08'21	
acse. Houe				momming set	JUDJ JUL 21 21.JU	2 1100021	
				C			
evening may al	8858 Dec 23 03:35	0° ≈	26023103	-		180 m 11124	1°40'55
evening max el retrograde			26°23'03	superior conj minimum elong	8859 Nov 03 22:47 8859 Nov 03 23:00	18°M11'34 18°M12'44	1°40'55

may Earth dist	9950 Nov. 07, 06:20	250 m 10142	1 22020 AII	minimum alana	9960 Oct 19 05:52	20M 50107	1920/02
max. Earth dist.	8859 Nov 07 06:30	25°M10'43 0°⊀	1.33939 AU	minimum elong	8860 Oct 18 05:52	2°M50'07	1°39'02
	8859 Nov 09 15:06			max. Earth dist.	8860 Oct 20 07:09	7°M17'36	1.32704 AU
evening rise desc. node	8859 Nov 11 21:33 8859 Nov 22 08:45	4° ₹30'31 23° ₹30'56		evening rise	8860 Oct 25 15:20 8860 Oct 31 13:03	18°M30'32 0° <i>₹</i>	
desc. node	8859 Nov 26 08:29	23 メ ・30 30		desc. node	8860 Nov 08 05:50	13° ∡ ¹23'49	
evening max el	8859 Dec 16 14:42	0 3 26° る 14'39	27°09'03	desc. node	8860 Nov 19 15:53	13 x·2349	
evening max er	8859 Dec 21 00:50	20 ℃1439 0°≈	27 09 03	evening max el	8860 Nov 28 02:32	· <u> </u>	27°29'19
retrograde	8859 Dec 21 00:30 8859 Dec 30 00:10	0 ∞ 3°≈36'01		retrograde	8860 Dec 11 19:26	9 3 28 03	27 29 19
evening set	8860 Jan 05 18:02	1°≈00'25		evening set	8860 Dec 11 19:20 8860 Dec 18 20:00	10 3 4033	
evening set	8860 Jan 06 22:55	1 ~00 23 30°Rる		min. Earth dist.	8860 Dec 22 13:51	11°る03'14	0.63471 AU
min. Earth dist.	8860 Jan 09 16:04	30 KO 27°る16'17	0.65179 AU	inferior conj	8860 Dec 25 05:45	8°る22'34	
inferior conj	8860 Jan 11 20:53	21°る1017 24°る48'55		minimum elong	8860 Dec 25 09:51	8°る12'12	
minimum elong	8860 Jan 11 20:33	24° る 43'52		asc. node	8860 Dec 31 18:37	3°る1212	2 07 33
asc. node	8860 Jan 14 21:34	24 3 43 32 21° る 38'37	0 39 30	morning rise	8861 Jan 01 01:38	3°る1230	
morning rise	8860 Jan 18 04:44	19° る 16'49		direct	8861 Jan 03 10:49	2°る38'18	
direct	8860 Jan 20 20:39	19 3 1049		morning max el	8861 Jan 10 00:11	2 038 18 6° る 01'45	17°48'09
morning max el	8860 Jan 27 06:47	18 33902 22° る 02'32	19901!20	morning max er	8861 Jan 25 18:35	0°≈	17 40 09
morning max ci	8860 Feb 02 13:25	0°≈	16 01 50	morning set	8861 Jan 26 09:32	0 ∞ 1°≈04'30	
marning gat		0 ≈ 18°≈45'47		morning set desc. node	8861 Feb 04 05:09	1 ≈04 30 16°≈06'31	
morning set desc. node	8860 Feb 14 06:12 8860 Feb 18 08:14	18 ≈43 47 25°≈27'57		desc. node	8801 Feb 04 05.09	10 ≈0031	
desc. node	8860 Feb 21 03:07	23 ≈ 2737 0° ∺		superior conj	8861 Feb 07 19:29	22° ≈ 04'13	0°26'11
	8800 100 21 03.07	0 /				22 ≈04 13 21°≈52'41	0°25'37
aumorior aoni	9960 Eak 29 15:20	12°) €02'07	1010/17	minimum elong	8861 Feb 07 16:41	21 ≈ 3241 0° ∺	0 23 37
superior conj	8860 Feb 28 15:29 8860 Feb 28 07:33	12° X 0207 11° X 30'41	1°09'13	may Earth dist	8861 Feb 12 16:51	1° ∺ 46'30	1 44476 ATT
minimum elong max. Earth dist.		17°) (23'42	1.45360 AU	max. Earth dist.	8861 Feb 13 19:30 8861 Feb 23 06:28	16° H 33'43	1.44476 AU
max. Earm dist.	8860 Mar 03 01:03	17 π2342 0°Υ	1.43300 AU	evening rise		10 χ3343 0° Υ	
avanina riaa	8860 Mar 11 03:06	0° γ 7° Υ 13'25		avanina may al	8861 Mar 04 03:24	0° γ 27° Υ 06'22	20°43'14
evening rise	8860 Mar 15 19:13	$\frac{7}{28}$ ° \mathbf{Y} 01'02	-0.7m	evening max el	8861 Mar 24 04:39	0°8	20-43-14
greatest brilliancy	8860 Mar 29 10:42 8860 Mar 30 19:02	0° 8	-U. /III	aga mada	8861 Mar 27 11:40	1° 8 18'40	
		13° 8 26'10	10040122	asc. node	8861 Mar 29 17:24	1° 8 55'47	
evening max el	8860 Apr 10 03:34	15° 8 01'21	19°40'22	retrograde	8861 Apr 01 10:30	_	
asc. node	8860 Apr 11 20:17	_		evening set	8861 Apr 05 12:18	0° ႘ 21'08 30° ℝ Υ	
retrograde	8860 Apr 17 11:58	17° 8 38'26		: <i>c</i> :	8861 Apr 05 22:37	30° Κ Ι 24° Υ 11'57	3°04'58
evening set	8860 Apr 21 04:25	16° 8 19'10	2010/04	inferior conj	8861 Apr 10 19:36	24° Υ 11'37' 24° Υ 17'37	3°04'37
inferior conj	8860 Apr 26 13:34	10° 8 22'42 10° 8 25'16		minimum elong	8861 Apr 10 17:57		
minimum elong	8860 Apr 26 12:48			min. Earth dist.	8861 Apr 11 08:57	23°Y25'58	0.68027 AU
min. Earth dist.	8860 Apr 27 16:49	8° 8 52'10	0.67164 AU	morning rise	8861 Apr 15 23:23	17° Y 56′20	
morning rise	8860 May 01 20:51	4° 8 04'21		direct	8861 Apr 21 10:36	15° Y 30'45	22050120
direct	8860 May 07 20:55	1° 8 24'04		morning max el	8861 May 02 09:33	22°\bar{V}03'34	23°58'30
desc. node	8860 May 16 08:11	5° 8 17'40	25925147	desc. node	8861 May 03 05:07	22° Y 53'59	
morning max el	8860 May 20 00:29	8° 8 41'04	25°25'46		8861 May 09 07:29	0°B	
	8860 Jun 05 17:57	0° I I		. ,	8861 May 30 01:03	0°II	
. ,	8860 Jun 24 05:19	0.22 CH 0		morning set	8861 Jun 06 21:27	13° Ⅱ 00'48	1 20267 ATT
morning set	8860 Jun 25 02:43	1°936'18	1 26106 ATT	max. Earth dist.	8861 Jun 10 15:28	19° Ⅱ 34'09	1.38367 AU
max. Earth dist.	8860 Jun 28 18:38	8 2021 33	1.36196 AU		8861 Jun 16 08:34	0ං ව	
	0000 1 1 04 20 24	200507140	0020120		0061 1 17 22 20	20050120	1010120
superior conj	8860 Jul 04 20:24	20°507'49		superior conj	8861 Jun 17 22:39	2°959'29	
minimum elong	8860 Jul 04 22:44	20°5519'29	0°38'14	minimum elong	8861 Jun 18 03:06	3°520'39	1~10.09
asc. node	8860 Jul 08 19:19	28°506'39		asc. node	8861 Jun 25 16:19	18°901'25	
	8860 Jul 09 17:32	0°N		evening rise	8861 Jun 26 22:06	20°527'47	
evening rise	8860 Jul 12 22:53	6° Ω 34'51			8861 Jul 01 21:01	0°Ω	10057102
	8860 Jul 26 00:56	0° m/y	10050100	evening max el	8861 Jul 13 07:15	17° Ω 05'13	18°57'02
evening max el	8860 Jul 30 11:06	5° m 15'57	19°53'20	retrograde	8861 Jul 21 22:05	21° Ω 21'41	
retrograde	8860 Aug 09 16:47	10° Mp 19'21		evening set	8861 Jul 23 20:37	21° Ω 09'33	
evening set	8860 Aug 11 13:46	10° Mp 09'57		desc. node	8861 Jul 30 04:20	18° Ω 12'31	002.512.0
desc. node	8860 Aug 12 07:16	10° Mp 01'25	2020122	inferior conj	8861 Aug 01 02:41	16° Ω 53'03	
inferior conj	8860 Aug 20 12:56	6° Mp 09'22		minimum elong	8861 Aug 01 01:11	16° Ω 55'42	
minimum elong	8860 Aug 20 06:06	6° Mp 19'46		min. Earth dist.	8861 Aug 04 02:59	14° Ω 46'45	0.56546 AU
min. Earth dist.	8860 Aug 22 12:32		0.55174 AU	morning rise	8861 Aug 09 02:33	11° Ω 58'18	
morning rise	8860 Aug 28 20:42	1° To 50'53		direct	8861 Aug 14 12:20	10° Ω 49'00	0.000
direct	8860 Sep 02 10:37	1° To 04'53		morning max el	8861 Aug 28 18:11	18° Ω 09'28	26°02'20
morning max el	8860 Sep 16 04:46	7° m 52'40	24°24'42		8861 Sep 07 15:17	0° m)	
	8860 Oct 02 07:15	0∘ ত		asc. node	8861 Sep 21 16:01	24° Mp 01'37	
asc. node	8860 Oct 04 19:05	4° Ω 34'47			8861 Sep 24 14:05	0∘ ⊽	
morning set	8860 Oct 11 09:42	17° £ 57'06		morning set	8861 Sep 25 20:44	2° £ 41'51	
	8860 Oct 16 22:46	0° M					
				superior conj	8861 Oct 02 17:40	17° ≙ 44'51	1°31'10
superior conj	8860 Oct 18 06:47	2°M55'08	1°38'58	minimum elong	8861 Oct 02 15:55	17° ≏ 35'09	1°31'05

max. Earth dist.	8861 Oct 03 14:14 8861 Oct 08 08:32	19° ≏ 38'33 0° ™	1.31925 AU		8862 Sep 16 01:46	0∘ ⊽	
evening rise	8861 Oct 08 08.32 8861 Oct 09 17:02	2°M51'26		superior conj	8862 Sep 17 05:28	2° £ 33'44	1°18'01
evening 1130	8861 Oct 24 08:37	2 11 0 31 20		minimum elong	8862 Sep 17 03:26	2° - 23' 44	1°17'43
desc. node	8861 Oct 26 02:55	2° х 46'22		max. Earth dist.	8862 Sep 17 00:10	2° ₽ 04'20	1.31604 AU
evening max el	8861 Nov 10 10:35	22° × 106'18	27°18'06	evening rise	8862 Sep 24 00:05	17° £ 24'53	1.51001110
retrograde	8861 Nov 24 06:58	29° х 18'57		0.00000	8862 Sep 30 04:46	0°M	
evening set	8861 Dec 01 08:24	27° ₹ 02'41		desc. node	8862 Oct 13 00:01	21°M25'37	
min. Earth dist.	8861 Dec 05 01:07	24° х 14′33	0.61514 AU		8862 Oct 19 17:00	0°⊀	
inferior conj	8861 Dec 08 02:03	21° ∡ ³32'18	-3°20'46	evening max el	8862 Oct 23 11:56	3° ∡ ¹56′25	26°32'53
minimum elong	8861 Dec 08 08:27	21° ≯ 18′03	3°18'20	retrograde	8862 Nov 06 09:55	11° ₹ 03'15	
morning rise	8861 Dec 15 10:47	16° ∡ ³34′23		evening set	8862 Nov 13 02:56	9° ∤ 11'41	
direct	8861 Dec 17 16:03	16° ₹ 13'33		min. Earth dist.	8862 Nov 17 01:32	6° ∡ ³36'36	0.59421 AU
asc. node	8861 Dec 18 15:38	16° ∡ 17'45		inferior conj	8862 Nov 20 06:16	4° ₹ 07'43	
morning max el	8861 Dec 24 16:09	19° ∡ ⁴45'38	17°52'55	minimum elong	8862 Nov 20 13:45	3° ₹ 53'09	4°26'13
	8862 Jan 01 05:19	0° ろ			8862 Nov 26 17:09	30°RM₊	
morning set	8862 Jan 09 08:52	14° る 20'00		morning rise	8862 Nov 28 03:02	29°M31'48	
	8862 Jan 18 02:59	0° ≈		direct	8862 Nov 30 08:00	29°M14'25	
	00/2 1 20 00 50	2010142	0015112		8862 Dec 03 19:29	0° 🗷	
superior conj	8862 Jan 20 00:59	3°≈19'42	0°15'13	asc. node	8862 Dec 05 12:39	0° х 56'31	10017100
minimum elong	8862 Jan 20 02:20 8862 Jan 19 23:42	3°≈25'30 3°≈14'10	0°15'13	morning max el morning set	8862 Dec 08 03:12 8862 Dec 23 22:20	3° 尽 04'16 28° 尽 14'05	18°17'09
behind sun begin behind sun end	8862 Jan 19 23:42 8862 Jan 20 04:58	3°≈1410 3°≈36'51		morning set	8862 Dec 23 22:20 8862 Dec 24 20:38	28°×'14'05	
desc. node	8862 Jan 22 02:05	6°≈49'55			8802 Dec 24 20.38	0 0	
max. Earth dist.	8862 Jan 27 10:29	15°≈45'21	1.42973 AU	superior conj	8863 Jan 02 05:55	15° ⋜ 41'36	0°49'07
evening rise	8862 Feb 03 00:24	26°≈18'07	1.12)/5/10	minimum elong	8863 Jan 02 09:04	15° る 55'58	0°48'53
evening noe	8862 Feb 05 09:19	0° ∀		desc. node	8863 Jan 08 23:02	27° る 34'09	0 1000
	8862 Feb 26 00:23	0°Υ		max. Earth dist.	8863 Jan 09 20:14	29° る 04'46	1.41018 AU
evening max el	8862 Mar 07 00:21	10° Ƴ 47'32	21°56'51		8863 Jan 10 09:15	0° ≈	
retrograde	8862 Mar 16 08:05	16° Ƴ 18'43		evening rise	8863 Jan 14 12:13	6° ≈ 51'54	
asc. node	8862 Mar 16 14:30	16° Ƴ 18′22			8863 Jan 29 12:41	0°) €	
evening set	8862 Mar 20 20:23	14° Y 28'44		evening max el	8863 Feb 17 15:55	24°) € 30'49	23°16'28
inferior conj	8862 Mar 26 03:56	8° Y 09'18	2°40'41		8863 Feb 24 22:49	$0^{\circ}\Upsilon$	
minimum elong	8862 Mar 26 01:47	8° Y 16'46	2°40'09	retrograde	8863 Feb 28 03:17	0° Y 42'43	
min. Earth dist.	8862 Mar 26 04:29	8° Ƴ 07'22	0.68440 AU	asc. node	8863 Mar 03 11:37	29°) 47'45	
morning rise	8862 Mar 31 07:02	1° Y 57'48			8863 Mar 03 02:19	30° ₹	
	8862 Apr 03 22:29	30° ₹		evening set	8863 Mar 05 03:08	28°) ₹38'05	
direct	8862 Apr 05 04:20	29°) 52′17		min. Earth dist.	8863 Mar 10 01:16	22°) 51'01	0.68421 AU
	8862 Apr 06 11:07	0°Υ	22020102	inferior conj	8863 Mar 10 12:40	22°) 11'43	2°07'11
morning max el	8862 Apr 14 20:24	5° Υ 33'51 11° Υ 27'45	22°29'02	minimum elong	8863 Mar 10 10:27 8863 Mar 15 17:44	22° 米 19'21 16° 米 05'33	2°06'32
desc. node	8862 Apr 20 02:03 8862 May 03 15:04	0° 8		morning rise direct	8863 Mar 20 01:13	16 X 03 33	
morning set	8862 May 18 14:42	23° 8 13'34		morning max el	8863 Mar 28 12:23	14 X 22 13	21°05'38
morning set	8862 May 22 16:46	0°II		morning max er	8863 Apr 06 10:14	0°Υ	21 03 30
max. Earth dist.	8862 May 23 13:12		1.40623 AU	desc. node	8863 Apr 06 22:58	0° Υ 43'10	
	.,				8863 Apr 26 18:53	0°8	
superior conj	8862 May 31 08:11	15° Ⅱ 02'42	-1°40'22	morning set	8863 Apr 28 05:12	2° 8 14'09	
minimum elong	8862 May 31 14:06	15° Ⅱ 29'17	1°39'54	max. Earth dist.	8863 May 05 16:35	14° 8 11'18	1.42680 AU
	8862 Jun 08 10:36	0ಂತ					
evening rise	8862 Jun 10 11:28	3° © 50'01		superior conj	8863 May 12 20:24	26° 8 07'29	-2°02'56
asc. node	8862 Jun 12 13:20	7° 5 44'03		minimum elong	8863 May 13 01:28	26° 8 29'02	2°02'50
evening max el	8862 Jun 26 12:53		18°21'31		8863 May 15 02:36	Π °0	
	8862 Jun 27 00:03	0 $^{\circ}\Omega$		evening rise	8863 May 24 10:53	16° Ⅲ 31'40	
retrograde	8862 Jul 03 22:40	3° Ω 16′05		asc. node	8863 May 30 10:24	27° Ⅱ 09'44	
evening set	8862 Jul 06 03:48	2° Ω 57'01			8863 Jun 01 02:09	0.20	10005150
: <i>C</i> :	8862 Jul 11 12:09	30°R©	1901101	evening max el	8863 Jun 10 00:15	12°931'19	18~05'58
inferior conj	8862 Jul 13 14:07 8862 Jul 13 16:08	28°520'18	1°01'01 1°00'06	retrograde	8863 Jun 16 16:25 8863 Jun 19 05:10	15°\$55'52 15°\$26'31	
minimum elong min. Earth dist.	8862 Jul 13 16:08 8862 Jul 16 23:15	28°©16'09 25°©34'16	0.58518 AU	evening set inferior conj	8863 Jun 19 05:10 8863 Jun 25 22:02	15°926'31 10°929'50	2°10'12
desc. node	8862 Jul 17 01:27	25°934'16	0.30310 AU	minimum elong	8863 Jun 26 01:01	10°929'30 10°922'41	2°10'12 2°09'08
morning rise	8862 Jul 21 01:06	23 \$3000 22°\$50'19		min. Earth dist.	8863 Jun 29 03:20	7°\$26'24	0.60759 AU
direct	8862 Jul 27 04:11	21°9510'57		morning rise	8863 Jul 02 18:14	4°934'21	
morning max el	8862 Aug 10 13:34	28°954'55	27°14'57	desc. node	8863 Jul 03 22:31	3°952'12	
5	8862 Aug 11 15:30	0°N		direct	8863 Jul 09 08:37	2° © 24'32	
	8862 Sep 01 10:51	0° m		morning max el	8863 Jul 23 15:50	10° © 23'03	27°51'56
asc. node	8862 Sep 08 12:57	13° Mp 45'58			8863 Aug 07 21:55	$0^{\circ}\Omega$	
morning set	8862 Sep 10 05:21	17° m 16'41			8863 Aug 24 15:01	0° m y	

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morning set	8863 Aug 25 09:46	1° m/36'36		asc. node	8864 Aug 12 06:52	23° Ω 45'34	
asc. node	8863 Aug 26 09:54	3° Mp 42'21		max. Earth dist.	8864 Aug 13 13:27	26° Ω 27'59	1.32376 AU
max. Earth dist.	8863 Aug 31 09:13	14° m) 24'40	1.31751 AU	max. Earth dist.	8864 Aug 15 04:54	0° m)	1.52570710
man. Barur dibu	0000114601 05.15	1	1.51,61110		00011146 10 01.01	v .y	
superior conj	8863 Sep 01 16:25	17° m) 16'29	0°59'52	superior conj	8864 Aug 16 00:40	1° m 47'06	0°37'06
minimum elong	8863 Sep 01 14:15	17° m 04'28	0°59'25	minimum elong	8864 Aug 15 23:02	1°Mp38'16	0°36'38
	8863 Sep 07 11:13	0∘ ⊽		evening rise	8864 Aug 22 22:01	16° Mp 45'46	
evening rise	8863 Sep 08 10:24	2° ₽ 05'02			8864 Aug 29 09:50	0∘ ⊽	
	8863 Sep 23 08:42	0°M		evening max el	8864 Sep 15 16:57	25° ≏ 16'45	23°41'17
desc. node	8863 Sep 29 21:09	9° M 04'34		desc. node	8864 Sep 15 18:18	25° ≏ 19'59	
evening max el	8863 Oct 05 05:15	14°M55'41	25°16'55		8864 Sep 21 21:14	0° M	
retrograde	8863 Oct 19 02:43	21°M56'12		retrograde	8864 Sep 29 06:59	2°M04'14	
evening set	8863 Oct 24 22:49	20°M38'11		evening set	8864 Oct 03 18:17	1°M20'35	
min. Earth dist.	8863 Oct 29 17:08	17°M58'25	0.57406 AU		8864 Oct 07 00:42	30° ₽ Ω	
inferior conj	8863 Nov 01 15:14	16°ML00'07	-5°20'04	min. Earth dist.	8864 Oct 10 03:14	28° ≏ 17'45	0.55764 AU
minimum elong	8863 Nov 01 20:40	15°M50'55	5°19'10	inferior conj	8864 Oct 12 04:01	27° ≏ 04'51	-5°37'33
morning rise	8863 Nov 09 20:51	11°M46'53		minimum elong	8864 Oct 12 03:01	27° ≏ 06'22	5°37'26
direct	8863 Nov 12 06:20	11°M29'53		morning rise	8864 Oct 20 13:46	23° ♀ 10'15	
morning max el	8863 Nov 21 05:37	15°M47'24	19°02'34	direct	8864 Oct 23 09:31	22° ≏ 50'23	
asc. node	8863 Nov 22 09:40	16°M58'47		morning max el	8864 Nov 02 20:00	27° ≏ 45'08	20°10'32
	8863 Dec 01 07:00	0° ∡ ¹		C	8864 Nov 05 00:00	o° m	
morning set	8863 Dec 07 21:30	12° ∡ ³34'11		asc. node	8864 Nov 08 06:40	4° ጤ 09'09	
C				morning set	8864 Nov 21 03:10	27° M 11'22	
superior conj	8863 Dec 16 05:23	28° ₹ 55'57	1°14'08	•	8864 Nov 22 12:06	0° ∡ ¹	
minimum elong	8863 Dec 16 08:33	29° х 11′09	1°13'59				
	8863 Dec 16 18:46	0° ට		superior conj	8864 Nov 28 18:36	12° ₹ 49'12	1°30'31
max. Earth dist.	8863 Dec 23 02:08	11° る 40'56	1.38854 AU	minimum elong	8864 Nov 28 20:50	13° ₹ '00'26	1°30'34
evening rise	8863 Dec 26 21:57	18° る 24'05		max. Earth dist.	8864 Dec 04 08:46	23° ∡ ¹46′06	1.36730 AU
desc. node	8863 Dec 26 20:01	18° る 15'47			8864 Dec 07 17:02	5°0	
	8864 Jan 02 21:42	0° ≈		evening rise	8864 Dec 08 04:09	0°る50'35	
	8864 Jan 23 20:42	0°) €		desc. node	8864 Dec 12 17:02	8° ප 51'07	
evening max el	8864 Jan 31 05:27	8°) 17'17	24°35'50		8864 Dec 26 01:48	0° ≈	
retrograde	8864 Feb 11 18:47	15°) 02′29		evening max el	8865 Jan 12 18:44	22° ≈ 05'49	25°47'53
evening set	8864 Feb 17 06:56	12°) 44'45		retrograde	8865 Jan 25 05:32	29° ≈ 13′02	
asc. node	8864 Feb 18 08:46	11°)(44'40		evening set	8865 Jan 31 06:12	26° ≈ 44'48	
min. Earth dist.	8864 Feb 21 21:01	7° ℋ 32'08	0.68000 AU	asc. node	8865 Feb 04 05:52	22° ≈ 30'27	
inferior conj	8864 Feb 22 19:57	6°) 15′42	1°24'59	min. Earth dist.	8865 Feb 04 13:29	22°≈06'49	0.67198 AU
minimum elong	8864 Feb 22 18:08	6°) €21'44	1°24'26	inferior conj	8865 Feb 05 23:52	20°≈18'11	0°34'29
morning rise	8864 Feb 28 05:29	0° ℋ 16'16		minimum elong	8865 Feb 05 23:00	20° ≈ 20'54	0°34'19
-	8864 Feb 28 14:58	30°R≈		morning rise	8865 Feb 11 16:19	14° ≈ 27'25	
direct	8864 Mar 03 00:02	28° ≈ 54'42		direct	8865 Feb 14 23:16	13° ≈ 25'24	
	8864 Mar 06 14:22	0°) €		morning max el	8865 Feb 21 18:58	17° ≈ 09'05	18°57'18
morning max el	8864 Mar 10 11:48	3° ₩ 06'46	19°53'57	•	8865 Mar 03 17:09	0° ∀	
desc. node	8864 Mar 23 19:52	20° ∺ 28'29		greatest brilliancy	8865 Mar 07 22:15	6° ∺ 20'29	-0.8m
	8864 Mar 30 05:12	$0^{\circ}\mathbf{\Upsilon}$		desc. node	8865 Mar 10 16:46	10°) 35′59	
morning set	8864 Apr 06 03:27	10° Ƴ 34'30		morning set	8865 Mar 16 09:06	19° ¥ 24'34	
max. Earth dist.	8864 Apr 17 02:51	27° Ƴ 44'35	1.44296 AU	•	8865 Mar 23 04:19	0° Y	
	8864 Apr 18 12:48	0°8		max. Earth dist.	8865 Mar 30 19:08	11° Y 54'40	1.45290 AU
	-						
superior conj	8864 Apr 22 08:02	6° 8 07'36	-2°12'16	superior conj	8865 Apr 01 21:52	15° Ƴ 14'06	-2°02'40
minimum elong	8864 Apr 22 08:14	6° ႘ 08'23	2°12'24	minimum elong	8865 Apr 01 14:58	14° Y 46'58	2°02'20
evening rise	8864 May 05 15:27	28° 8 20'58			8865 Apr 11 04:45	0°8	
	8864 May 06 14:39	$\Pi^{\circ}0$		evening rise	8865 Apr 16 21:13	9° 8 11'40	
asc. node	8864 May 16 07:29	16° Ⅱ 11'34			8865 Apr 29 21:28	$\Pi^{\circ}0$	
evening max el	8864 May 23 13:45	25° Ⅱ 49'19	18°09'31	asc. node	8865 May 03 04:35	4° Ⅱ 41'51	
retrograde	8864 May 29 22:55	29° Ⅱ 10′22		evening max el	8865 May 07 02:20	9° Ⅱ 19'34	18°31'21
evening set	8864 Jun 01 19:14	28° Ⅲ 28′24		retrograde	8865 May 13 14:01	12° Ⅱ 50′58	
inferior conj	8864 Jun 07 22:28	23° Ⅱ 13'01	2°53'41	evening set	8865 May 16 17:50	11° Ⅱ 54'56	
minimum elong	8864 Jun 08 00:51	23° Ⅱ 06'34	2°53'01	inferior conj	8865 May 22 11:22	6° Ⅱ 22'12	3°16'07
min. Earth dist.	8864 Jun 10 16:14	20° Ⅱ 15'54	0.62965 AU	minimum elong	8865 May 22 12:31	6° Ⅱ 18'45	3°15'48
morning rise	8864 Jun 14 04:51	17° Ⅱ 02'48		min. Earth dist.	8865 May 24 14:17	3° ∏ 50′22	0.64909 AU
desc. node	8864 Jun 19 19:35	14° Ⅱ 33'58		morning rise	8865 May 28 06:23	0°Щ05′14	
direct	8864 Jun 20 23:01	14° Ⅱ 29'46		-	8865 May 28 08:54	30° ₹ 8	
morning max el	8864 Jul 04 23:11	22° Ⅲ 32'46	27°50'41	direct	8865 Jun 03 21:18	27° 8 20'29	
Ç	8864 Jul 11 12:48	0°9		desc. node	8865 Jun 06 16:36	27° 8 46'19	
	8864 Jul 31 03:21	$0^{\circ}\Omega$			8865 Jun 11 04:50	0°II	
morning set	8864 Aug 08 07:48	15° Ω 34'54		morning max el	8865 Jun 17 09:12	5° Ⅱ 16′21	27°14'41
<i>5</i>				<i>5</i> 2-			-

	8865 Jul 06 04:51	0° ©		desc. node	8866 May 24 13:35	13° 8 04'41	
morning set	8865 Jul 22 20:43	29° 5 04'19		morning max el	8866 May 30 19:40	18° 8 22'54	26°11'14
morning set	8865 Jul 23 08:08	29 3 04 19		morning max er	8866 Jun 09 14:29	0° Ⅱ	20 11 14
max. Earth dist.	8865 Jul 27 09:27	8° Ω 07'07	1.33493 AU		8866 Jun 29 05:05	0°9	
	8865 Jul 30 03:49	13° Ω 51'33	1.33493 AU	marning act		11° 9 55'26	
asc. node	8803 Jul 30 03.49	13 663133		morning set max. Earth dist.	8866 Jul 05 21:01 8866 Jul 09 18:57	11 \$33 20 19°\$22'05	1 25004 ATT
gumariar agni	8865 Jul 31 04:07	15° Ω 59'36	0°10'11	max. Earth dist.	8800 Jul 09 18.37	19 22203	1.35084 AU
superior conj minimum elong	8865 Jul 31 03:36	15° Ω 56'53	0°09'53	aumorior coni	8866 Jul 15 00:18	29° © 47'12	0920104
-	8865 Jul 30 23:12	15° Ω 33'35	0 09 33	superior conj	8866 Jul 15 01:28	29°953'10	
behind sun begin				minimum elong			0 20 02
behind sun end	8865 Jul 31 08:01	16° Ω 20'13		1	8866 Jul 15 02:48	0°Ω	
	8865 Aug 06 17:37	0° m/y		asc. node	8866 Jul 17 00:48	3° £ 56′27	
evening rise	8865 Aug 07 09:02	1° Mp 21'33		evening rise	8866 Jul 22 17:24	15° Ω 46'23	
	8865 Aug 23 11:39	0∘ ⊽	22002122		8866 Jul 29 23:01	0° m/y	20025105
evening max el	8865 Aug 28 06:25	5° Ω 29'47	22°02'23	evening max el	8866 Aug 10 06:00	16° Mp 09'19	20°35'05
desc. node	8865 Sep 02 15:27	9° Ω 42'01		desc. node	8866 Aug 20 12:35	21° mp 40'45	
retrograde	8865 Sep 09 23:16	11° Ω 48'46		retrograde	8866 Aug 21 11:31	21° Mp 43'05	
evening set	8865 Sep 12 23:26	11° Ω 28'39		evening set	8866 Aug 23 13:12	21° m/32'32	
min. Earth dist.	8865 Sep 21 11:11	7° Ω 47'23	0.54812 AU	inferior conj	8866 Sep 01 17:39	17° m 35'31	
inferior conj	8865 Sep 22 00:53	7° Ω 28'11		minimum elong	8866 Sep 01 08:30	17° Mp 48'42	
minimum elong	8865 Sep 21 16:46	7° Ω 39'33	5°01'20	min. Earth dist.	8866 Sep 02 20:16	16° Mp 57'10	0.54764 AU
morning rise	8865 Sep 30 11:34	3° ≙ 40'19		morning rise	8866 Sep 10 03:29	13° m 33'57	
direct	8865 Oct 03 21:45	3° ≏ 14'23		direct	8866 Sep 14 06:14	12° m 57'41	
morning max el	8865 Oct 15 21:10	8° ≏ 52'55	21°39'48	morning max el	8866 Sep 27 12:30	19° Mp 21'23	23°23'34
asc. node	8865 Oct 26 03:38	22° ≏ 12'09			8866 Oct 06 08:51	0∘ ⊽	
	8865 Oct 30 13:27	0° M ₊		asc. node	8866 Oct 13 00:34	10° ≏ 55'26	
morning set	8865 Nov 05 12:42	11° M 57'33		morning set	8866 Oct 21 00:09	26° ≏ 47'15	
					8866 Oct 22 12:15	0°M₊	
superior conj	8865 Nov 12 17:28	27°M09'02	1°39'08				
minimum elong	8865 Nov 12 18:25	27°M14'03	1°39'18	superior conj	8866 Oct 27 22:54	11° M 46'30	1°40'49
	8865 Nov 14 02:20	0°⊀		minimum elong	8866 Oct 27 22:36	11° M 44'56	1°40'59
max. Earth dist.	8865 Nov 16 20:56	5° ∡ ³39'56	1.34854 AU	max. Earth dist.	8866 Oct 30 17:05	17° M 39'43	1.33363 AU
evening rise	8865 Nov 21 03:05	14° ∡ 00'45		evening rise	8866 Nov 04 14:58	27°M45'10	
desc. node	8865 Nov 29 14:05	29° ∡ 14'50			8866 Nov 05 18:16	0° ≯	
	8865 Nov 30 00:46	0°る		desc. node	8866 Nov 16 11:09	19° ∡ ′21′09	
	8865 Dec 20 21:44	0° ≈			8866 Nov 23 06:27	8°0	
evening max el	8865 Dec 26 08:09	5° ≈ 48'48	26°45'20	evening max el	8866 Dec 08 20:51	19° る 15'47	27°21'00
retrograde	8866 Jan 08 10:40	13° ≈ 07'02		retrograde	8866 Dec 22 09:43	26° る 36'32	
evening set	8866 Jan 14 23:02	10° ≈ 32′23		evening set	8866 Dec 29 07:12	24° る 01'44	
min. Earth dist.	8866 Jan 19 00:15	6° ≈ 29'03	0.66025 AU	min. Earth dist.	8867 Jan 02 03:11		0.64499 AU
inferior conj	8866 Jan 20 22:20	4°≈13'52	-0°23'55	inferior conj	8867 Jan 04 12:55	17° る 57'15	-1°29'19
minimum elong	8866 Jan 20 23:00	4°≈11'54	0°23'25	minimum elong	8867 Jan 04 15:40	17° る 49'53	1°27'57
asc. node	8866 Jan 22 02:57	2° ≈ 50'58		asc. node	8867 Jan 09 00:00	13° る 44'22	
	8866 Jan 24 22:34	30°Ŗる		morning rise	8867 Jan 11 01:46	12° る 31'31	
morning rise	8866 Jan 26 23:59	28° る 34'13		direct	8867 Jan 13 14:34	11° る 58'33	
direct	8866 Jan 29 20:56	27° る 48'35		morning max el	8867 Jan 20 01:05	15° る 20'33	17°53'40
	8866 Feb 03 22:36	0° ≈			8867 Jan 30 12:28	0° ≈	
morning max el	8866 Feb 05 08:16	1°≈16′00	18°17'01	morning set	8867 Feb 06 05:26	11° ≈ 11′21	
morning set	8866 Feb 24 16:42	29° ≈ 35′02		desc. node	8867 Feb 12 10:33	21° ≈ 33′08	
	8866 Feb 24 22:56	0° ∀			8867 Feb 17 14:35	0° ∀	
desc. node	8866 Feb 25 13:39	0°) 59′04					
				superior conj	8867 Feb 19 18:27	3° ¥ 28′51	
superior conj	8866 Mar 12 02:54	24°) €03'38		minimum elong	8867 Feb 19 12:35	3° ∺ 05′18	0°50'47
minimum elong	8866 Mar 11 17:22	23°) €26'14		max. Earth dist.	8867 Feb 24 10:18	10° ¥ 53'36	1.45069 AU
max. Earth dist.	8866 Mar 13 14:46	26° ∺ 24'06	1.45553 AU	evening rise	8867 Mar 07 18:13	28° ∺ 30′29	
	8866 Mar 15 21:59	0° Y			8867 Mar 08 17:33	0 ° Υ	
evening rise	8866 Mar 28 03:48	19° ℃ 07'41		greatest brilliancy	8867 Mar 22 15:20	20° Y 55'55	-0.6m
	8866 Apr 04 02:50	$0^{\circ}S$			8867 Mar 29 02:51	9° 8	
greatest brilliancy	8866 Apr 08 05:13	6° 8 19'45	-0.8m	evening max el	8867 Apr 03 15:36	6° 8 34'13	20°05'32
asc. node	8866 Apr 20 01:41	22° 8 30'29		asc. node	8867 Apr 06 22:46	9° 8 25'00	
evening max el	8866 Apr 20 11:30	22° 8 55'48	19°10'35	retrograde	8867 Apr 11 08:33	11° 8 01'51	
retrograde	8866 Apr 27 10:10	26° 8 50'05		evening set	8867 Apr 15 04:49	9° 8 35'58	
evening set	8866 Apr 30 21:49	25° 8 39'17		inferior conj	8867 Apr 20 12:52	3° 8 33'33	3°14'27
inferior conj	8866 May 06 09:09	19° 8 50'48	3°21'57	minimum elong	8867 Apr 20 11:41	3° 8 37'34	3°14'11
minimum elong	8866 May 06 09:01	19° 8 51'12	3°21'46	min. Earth dist.	8867 Apr 21 09:59	2° 8 21'59	0.67579 AU
min. Earth dist.	8866 May 07 20:44	17° 8 56'13	0.66461 AU		8867 Apr 23 05:39	30° ₹Ƴ	
morning rise	8866 May 11 19:49	13° 8 32'01		morning rise	8867 Apr 25 18:17	27° Y 16′01	
direct	8866 May 18 02:13	10° 8 47'24		direct	8867 May 01 12:56	24° Y 41'21	

desc. node	8867 May 11 10:32	29° Y 58'05		minimum elong	8868 Apr 03 18:15	17° Ƴ 33'45	2°55'25
dese. node	8867 May 11 11:22	0°8		min. Earth dist.	8868 Apr 04 03:59	16° Y 59'56	0.68251 AU
morning max el	8867 May 13 05:11	1° 8 41'27	24°49'37	morning rise	8868 Apr 08 23:17	11°Υ12'50	***************************************
5 5	8867 Jun 03 15:23	0°II		direct	8868 Apr 14 04:34	8° Y 55'14	
morning set	8867 Jun 18 04:03	23° II 55'20		morning max el	8868 Apr 24 14:38	15° Ƴ 07'20	23°20'08
S	8867 Jun 21 13:05	0°©		desc. node	8868 Apr 27 07:27	18° Ƴ 01'12	
max. Earth dist.	8867 Jun 21 18:46	0°525'59	1.37084 AU		8868 May 06 18:07	0° ႘	
					8868 May 26 14:25	$\Pi^{\circ}0$	
superior conj	8867 Jun 28 10:04	13° 5 01'04	-0°52'11	morning set	8868 May 29 12:30	4° Ⅱ 50'45	
minimum elong	8867 Jun 28 13:19	13° © 16'58	0°51'50	max. Earth dist.	8868 Jun 02 14:39	11° Ⅱ 50′08	1.39328 AU
asc. node	8867 Jul 03 21:46	23°955'40					
evening rise	8867 Jul 06 20:44	29° 9 52'34		superior conj	8868 Jun 10 05:45	25° Ⅱ 33'09	-1°23'47
	8867 Jul 06 22:13	$0^{\circ}\Omega$		minimum elong	8868 Jun 10 10:59	25° Ⅱ 57'27	1°23'17
evening max el	8867 Jul 23 18:59	27° Ω 32'11	19°26'52		8868 Jun 12 14:45	0 \circ \odot	
	8867 Jul 26 17:21	0° m		evening rise	8868 Jun 19 16:12	13° © 33'09	
retrograde	8867 Aug 02 07:40	2° Mp 14'58		asc. node	8868 Jun 19 18:47	13° © 45'36	
evening set	8867 Aug 04 03:59	2° Mp 05'07			8868 Jun 28 15:29	$0 {\circ} \Omega$	
desc. node	8867 Aug 07 09:42	1° m 04'38		evening max el	8868 Jul 05 19:40	9° Ω 38'54	18°39'30
	8867 Aug 09 13:27	30° R Ω		retrograde	8868 Jul 13 20:47	13° Ω 38'58	
inferior conj	8867 Aug 12 20:42	27° Ω 58'41	-1°40'42	evening set	8868 Jul 15 21:47	13° Ω 24'24	
minimum elong	8867 Aug 12 16:09	28° Ω 06′01	1°39'06	inferior conj	8868 Jul 23 19:28	8° Ω 59'55	0°08'33
min. Earth dist.	8867 Aug 15 08:38	26° Ω 22'15	0.55657 AU	minimum elong	8868 Jul 23 19:47	8° Ω 59'19	0°08'14
morning rise	8867 Aug 21 01:45	23° Ω 25′04		transit middle	8868 Jul 23 19:47	8° Ω 59'19	0°08'14
direct	8867 Aug 25 23:49	22° Ω 30′24		transit begin	8868 Jul 23 16:39	9° Ω 05'12	
morning max el	8867 Sep 09 00:44	29° Ω 33'53	25°08'20	transit end	8868 Jul 23 22:55	8° Ω 53'24	
	8867 Sep 09 11:35	0° m ∕		desc. node	8868 Jul 24 06:47	8° Ω 38'32	
asc. node	8867 Sep 29 21:30	0° ჲ 08'21		min. Earth dist.	8868 Jul 27 01:35	6° Ω 34'01	0.57330 AU
	8867 Sep 29 19:47	0∘ ⊽		morning rise	8868 Jul 31 14:15	3° Ω 49'11	
morning set	8867 Oct 05 11:48	11° ≙ 34'47		direct	8868 Aug 06 08:07	2° Ω 27'15	
				morning max el	8868 Aug 20 16:14	9° Ω 59'34	26°37'01
superior conj	8867 Oct 12 08:23	26° £ 33'30	1°36'20		8868 Sep 04 23:20	0° т р	
minimum elong	8867 Oct 12 07:05	26° £ 26'16	1°36'21	asc. node	8868 Sep 15 18:27	19° ™ 42'57	
	8867 Oct 13 22:06	0°M₊		morning set	8868 Sep 18 22:00	26° Mp 15'24	
max. Earth dist.	8867 Oct 13 20:38	29° £ 52'01	1.32314 AU		8868 Sep 20 15:51	0。 ಹ	
evening rise	8867 Oct 19 12:26	11°M54'39					
	8867 Oct 28 23:07	0° ∡ ¹		superior conj	8868 Sep 25 19:54	11° ≏ 23'24	1°26'14
desc. node	8867 Nov 03 08:15	9° ∡ '02'18		minimum elong	8868 Sep 25 17:54		1°26'03
	8867 Nov 19 01:04	0°ਰ		max. Earth dist.	8868 Sep 26 05:09	12° ≙ 14'47	1.31728 AU
evening max el	8867 Nov 21 07:10	2° る 14'56	27°28'29	evening rise	8868 Oct 02 16:42	26° £ 21′28	
retrograde	8867 Dec 05 02:04	9° ට 32'11			8868 Oct 04 10:38	0°M	
evening set	8867 Dec 12 03:54	7° る 06'07		desc. node	8868 Oct 20 05:22	28°M07'59	
min. Earth dist.	8867 Dec 15 20:34	4°る04'53			8868 Oct 21 11:45	0° ∡ 7	
inferior conj	8867 Dec 18 16:51	1°る21'32		evening max el	8868 Nov 02 12:45	14° 🖈 34'03	27°03'03
minimum elong	8867 Dec 18 21:58	1° ට 09'14	2°37'28	retrograde	8868 Nov 16 10:27	21° × ⁷ 44'31	
	8867 Dec 20 03:28	30°R⊀		evening set	8868 Nov 23 09:20	19° 🗷 37'43	0.60625 ATT
morning rise	8867 Dec 25 18:14	26° ₹ 12'41		min. Earth dist.	8868 Nov 27 03:25	16° ₹ 56'38	0.60625 AU
asc. node	8867 Dec 26 21:03	25° 🗷 54'59		inferior conj	8868 Nov 30 06:47	14° ₹ 18'02	
direct morning max el	8867 Dec 28 01:15 8868 Jan 03 18:22	25° ₹ 48'34 29° ₹ 14'41	17°47'53	minimum elong morning rise	8868 Nov 30 13:53 8868 Dec 07 20:51	14° ₹ 03'03 9° ₹ 29'01	3°48'05
morning max er		29 x ・1441	1/4/33			9° × -2901	
morning set	8868 Jan 04 11:58 8868 Jan 19 18:05	0°る 23° る 56'30		direct asc. node	8868 Dec 10 01:19 8868 Dec 12 18:06	9° × ′10′09 9° × ′40′11	
morning set	8868 Jan 23 04:44	23 ⊘ 3030 0°≈		morning max el	8868 Dec 17 08:42	9 x ·40 11 12° x 49'06	18°00'41
desc. node	8868 Jan 30 07:29	0 ≈ 12°≈14'16		morning max er	8868 Dec 28 21:50	12 メ ・4900	18 00 41
desc. node	8808 Jan 30 07.29	12 214 10		morning set	8869 Jan 02 00:07	7° 云 30'23	
superior conj	8868 Jan 31 09:15	14°≈02'30	-0°07'56	morning set	0009 Jan 02 00.0/	/ 03023	
minimum elong	8868 Jan 31 08:28	14 ≈02 30 13°≈59'15		superior conj	8869 Jan 12 01:13	25° ♂ 47'35	0°30'39
behind sun begin	8868 Jan 31 00:25	13°≈25'30	3 07 30	minimum elong	8869 Jan 12 01:13	25° る 58'07	
behind sun end	8868 Jan 31 16:31	13 ≈23 30 14°≈32'57			8869 Jan 14 10:57	23 3 38 07 0° ≈	5 50 50
max. Earth dist.	8868 Feb 07 03:03	25°≈06'26	1.43898 AU	desc. node	8869 Jan 16 04:26	0 ∞ 2°≈58'23	
Zurur dist.	8868 Feb 10 04:37	0° ₩	15570710	max. Earth dist.	8869 Jan 19 15:35	2 ~ 38 23 8° ≈ 48'44	1.42184 AU
evening rise	8868 Feb 15 06:30	7° ¥ 56'43		evening rise	8869 Jan 25 07:09	18°≈00'24	210.710
	8868 Feb 29 23:49	0° Υ		- ·	8869 Feb 02 00:28	0° ∀	
evening max el	8868 Mar 16 14:15	20° Υ 14'39	21°13'31		8869 Feb 23 17:25	0° Υ	
asc. node	8868 Mar 23 19:52	25° Υ 11'20		evening max el	8869 Feb 27 08:05	3° Υ 56'57	22°30'25
retrograde	8868 Mar 25 06:58	25° Υ 22'09		retrograde	8869 Mar 09 03:40	9° Υ 45'50	
evening set	8868 Mar 29 13:00	23° Υ 41'07		asc. node	8869 Mar 10 17:01	9° Υ 33'43	
inferior conj	8868 Apr 03 20:09	17° Υ 27'08	2°55'51	evening set	8869 Mar 13 20:41	7° Υ 49'44	
	p. 05 20.07	/ 00		- · 5 5 5 6	200.11	, , ,, ,, ,,	

inferior conj	8869 Mar 19 04:55	1° Y 27'04	2°27'32	evening set	8870 Feb 26 02:22	21° ¥ 58'27	
·	8869 Mar 19 04:33	1° Υ 34'49	2°26'57	min. Earth dist.	8870 Mar 02 20:57	16°\(\frac{1}{26}\)'10	0.68303 AU
minimum elong							
min. Earth dist.	8869 Mar 19 00:23	1° Y 42'49	0.68486 AU	inferior conj	8870 Mar 03 13:16	15°) € 30'39	1°50'18
	8869 Mar 20 06:08	30° ₹		minimum elong	8870 Mar 03 11:10	15°) € 37'49	1°49'41
morning rise	8869 Mar 24 08:31	25°) 17'34		morning rise	8870 Mar 08 19:57	9° ∺ 27'16	
direct	8869 Mar 28 23:58	23° ∺ 21'07		direct	8870 Mar 12 21:53	7°) €53'14	
morning max el	8869 Apr 07 03:05	28° ¥ 40′58	21°52'17	morning max el	8870 Mar 20 22:01	12° ∺ 26′26	20°33'22
	8869 Apr 08 09:32	$0^{\circ}\Upsilon$		desc. node	8870 Apr 01 01:17	26° ∺ 23′21	
desc. node	8869 Apr 14 04:22	6° Ƴ 54'06			8870 Apr 03 14:03	$0^{\circ}\mathbf{\Upsilon}$	
	8869 Apr 30 10:19	9° 8		morning set	8870 Apr 18 23:14	23° Ƴ 07'09	
morning set	8869 May 09 17:56	14° 8 30'42			8870 Apr 23 08:44	9° 8	
max. Earth dist.	8869 May 15 14:05	24° 8 02'52	1.41543 AU	max. Earth dist.	8870 Apr 27 20:55	7° 8 11'33	1.43444 AU
	8869 May 19 02:50	Π $^{\circ}$ 0					
				superior conj	8870 May 04 08:41	17° 8 49'54	-2°08'54
superior conj	8869 May 23 06:46	7° Ⅱ 12'38	-1°51'09	minimum elong	8870 May 04 12:11	18° 8 04'33	2°08'57
minimum elong	8869 May 23 12:43	7° Ⅱ 38'46	1°50'49		8870 May 11 12:32	$\Pi^{\circ}0$	
evening rise	8869 Jun 03 00:08	26° Ⅲ 38'50		evening rise	8870 May 16 16:05	8° Ⅱ 59'20	
	8869 Jun 04 19:47	0° ©		asc. node	8870 May 24 12:54	22° Ⅱ 37'43	
asc. node	8869 Jun 06 15:50	3°521'28			8870 May 29 05:55	0ංම	
evening max el	8869 Jun 19 04:15	22°520'56	18°12'34	evening max el	8870 Jun 02 16:55	5° © 28'19	18°05'10
retrograde	8869 Jun 26 04:56	25°953'40		retrograde	8870 Jun 09 04:46	8° 5 49'38	
evening set	8869 Jun 28 13:27	25° © 30'27		evening set	8870 Jun 11 20:51	8°915'01	
inferior conj	8869 Jul 05 15:54	20°545'08	1°33'45	inferior conj	8870 Jun 18 07:21	3°909'51	2°31'33
minimum elong	8869 Jul 05 18:36	20°939'13	1°32'39	minimum elong	8870 Jun 18 10:13	3°902'36	2°30'38
min. Earth dist.	8869 Jul 09 00:44	17°948'50	0.59463 AU	minimum crong	8870 Jun 21 11:03	30°RⅡ	2 3030
desc. node	8869 Jul 11 03:51	16°909'35	0.55405710	min. Earth dist.	8870 Jun 21 08:15	0°906'43	0.61718 AU
morning rise	8869 Jul 12 20:41	15° © 03'19		morning rise	8870 Jun 24 21:27	27° I 107'01	0.01710 AC
direct	8869 Jul 12 20.41 8869 Jul 19 05:42	13°9510'25		desc. node	8870 Jun 28 00:55	25° I I25'40	
		21° 5 01'05	27°35'25	direct	8870 Jul 28 00:33	23 H 23 40 24° H 46'28	
morning max el	8869 Aug 02 14:19	21 3 01 03	21 33 23	direct		24 п 40 28	
	8869 Aug 10 09:13			. ,	8870 Jul 12 18:36		2705 (100
	8869 Aug 28 21:13	0° m/y		morning max el	8870 Jul 15 19:02	2°547'23	27°36'09
asc. node	8869 Sep 02 15:25	9° m 33'02			8870 Aug 04 20:31	0°N	
morning set	8869 Sep 03 05:05	10° Mp 44'25		morning set	8870 Aug 18 07:03	24° £ 55'43	
max. Earth dist.	8869 Sep 09 15:13	24° m 39'41	1.31606 AU	asc. node	8870 Aug 20 12:21	29° Ω 32'45	
					8870 Aug 20 17:31	0°Щ	
superior conj	8869 Sep 10 07:35	26° Mp 10'29	1°10'56	max. Earth dist.	8870 Aug 23 22:53	6° ™ 55'01	1.31957 AU
minimum elong	8869 Sep 10 05:20	25° m/58'00	1°10'33				
	8869 Sep 12 00:56	0∘ ⊽		superior conj	8870 Aug 25 17:35	10° Mp 48'26	0°50'46
evening rise	8869 Sep 17 01:26	10° ≙ 58'55		minimum elong	8870 Aug 25 15:34	10° Mp 37′24	0°50'17
	8869 Sep 26 16:20	0° M .		evening rise	8870 Sep 01 12:31	25° Mp 40'00	
desc. node	8869 Oct 07 02:29	16°ML24'16			8870 Sep 03 13:37	0∘ ত	
evening max el	8869 Oct 15 11:03	26°MJ03'45	26°04'03		8870 Sep 21 01:56	0° M	
	8869 Oct 20 07:54	0° ∡ 7		desc. node	8870 Sep 23 23:38	3°M30'54	
retrograde	8869 Oct 29 09:06	3° ∡ 07'20		evening max el	8870 Sep 27 01:19	6°M43'38	24°37'45
evening set	8869 Nov 04 18:51	1° ∡ ¹29'36		retrograde	8870 Oct 10 20:24	13° M 39'41	
	8869 Nov 07 09:23	30°RM		evening set	8870 Oct 16 04:04	12°M36'38	
min. Earth dist.	8869 Nov 08 23:57	28°M54'47	0.58537 AU	min. Earth dist.	8870 Oct 21 12:21	9° M 49'31	0.56643 AU
inferior conj	8869 Nov 12 03:15	26°MJ37'11	-4°53'12	inferior conj	8870 Oct 24 03:28	8°MJ09'00	-5°32'51
minimum elong	8869 Nov 12 10:22	26°M24'06	4°51'30	minimum elong	8870 Oct 24 06:39	8°M03'55	
morning rise	8869 Nov 20 04:14	22°M10'37		morning rise	8870 Nov 01 11:26	4°M04'52	
direct	8869 Nov 22 10:33	21°M53'42		direct	8870 Nov 04 00:51	3°M46'56	
asc. node	8869 Nov 29 15:07	24°M56'34		morning max el	8870 Nov 13 14:06	8°MJ18'41	19°28'47
morning max el	8869 Nov 30 16:31	25°M54'13	18°33'43	asc. node	8870 Nov 16 12:08	11°M29'26	1, 20 1,
morning max or	8869 Dec 04 05:40	0° ₹	10 33 13	use. Houe	8870 Nov 27 18:31	0°×7	
morning set	8869 Dec 16 18:17	21° х 37'56		morning set	8870 Nov 30 20:34	6° ∡ 106'27	
morning set	8869 Dec 21 02:13	0°る		morning set	00/0 NOV 30 20.34	0 × 0027	
	8809 DCC 21 02.13	0 0		superior aoni	9970 Dag 09 20:29	220.70647	1°22'05
aupariar asa:	8869 Dec 25 14:45	8° る 34'09	1°00'48	superior conj minimum elong	8870 Dec 08 20:38 8870 Dec 08 23:29	22° ₹ 06'47 22° ₹ 20'43	1°22'01
superior conj		8°る34'09 8°る49'39		minimum etong		22°×'20'43 0°る	1 44 01
minimum elong	8869 Dec 25 18:05		1°00'35	mov Etl- U t	8870 Dec 12 23:07		1 27022 411
max. Earth dist.	8870 Jan 01 23:54	21° る 51'58	1.40118 AU	max. Earth dist.	8870 Dec 15 05:48		1.37933 AU
desc. node	8870 Jan 03 01:26	23° る 42'23		evening rise	8870 Dec 18 23:08	10°る55'55	
evening rise	8870 Jan 06 04:22	28° る 59'59		desc. node	8870 Dec 20 22:27	14° る 21'55	
	8870 Jan 06 18:47	0° ≈			8870 Dec 30 12:15	0° ≈	
	8870 Jan 26 12:21	0° ∀			8871 Jan 22 00:23	0° ∀	
evening max el	8870 Feb 09 22:45	17° ¥ 42′29	23°50'35	evening max el	8871 Jan 23 11:58	1° ∺ 30'15	25°07'40
retrograde	8870 Feb 20 21:16	24° ₭ 08'52		retrograde	8871 Feb 04 10:50	8° ∺ 26′02	
asc. node	8870 Feb 25 14:08	22° ∺ 23'12		evening set	8871 Feb 10 04:29	6°) €03'09	

asc. node	8871 Feb 12 11:14	3°) (46′12		min. Earth dist.	8872 Jan 29 05:46	15° ≈ 35'41	0.66740 AU
min. Earth dist.	8871 Feb 14 15:28	1° ¥ 05'33	0.67714 AU	asc. node	8872 Jan 30 08:20	14°≈14'19	0.00740710
mm. Lattii dist.	8871 Feb 15 11:34	30°R≈	0.07714710	inferior conj	8872 Jan 30 21:12	13° ≈ 34'38	0°10'40
inferior conj	8871 Feb 15 19:21	29°≈34'32	1°04'35	minimum elong	8872 Jan 30 20:55	13°≈35'31	0°10'44
minimum elong	8871 Feb 15 17:52	29°≈39'22	1°04'09	transit middle	8872 Jan 30 20:55	13°≈35'31	0°10'44
morning rise	8871 Feb 21 07:35	23°≈38'50	1 040)	transit begin	8872 Jan 30 18:46	13°≈42'06	0 10 44
direct	8871 Feb 24 21:00	22°≈26'02		transit end	8872 Jan 30 23:03	13°≈28'56	
morning max el	8871 Mar 04 00:58	26°≈24'13	19°27'54	morning rise	8872 Feb 05 17:19	7°≈48'26	
morning max or	8871 Mar 07 06:43	0° ∀	1, 2, 3.	direct	8872 Feb 08 19:41	6°≈54'02	
greatest brilliancy	8871 Mar 16 19:26	13°) €09'54	-0.7m	morning max el	8872 Feb 15 11:04	10°≈29'39	18°38'07
desc. node	8871 Mar 18 22:12	16°) 19'10	0.7111	morning max or	8872 Feb 29 14:26	0° ∀	10 3007
dese. Hode	8871 Mar 27 21:40	0°Υ		desc. node	8872 Mar 04 19:06	6°) 34'04	
morning set	8871 Mar 28 21:39	1° Υ 32'21		morning set	8872 Mar 07 12:59	10°) 53'09	
max. Earth dist.	8871 Apr 10 10:24	21° Υ 04'14	1.44805 AU	morning sec	8872 Mar 19 17:23	0°Υ	
max. Earth dist.	66/1 Apr 10 10.24	21 10414	1.44603 AO	max. Earth dist.	8872 Mar 23 04:02	5° Υ 23'18	1.45490 AU
superior conj	8871 Apr 14 10:08	27° Ƴ 24'32	-2°10'43	max. Lartii dist.	0072 Wai 25 04.02	3 1 23 16	1.43470 AO
minimum elong	8871 Apr 14 07:15	27° Υ 13'02		superior conj	8872 Mar 23 18:05	6° Ƴ 18'20	-1°52'24
minimum ciong	8871 Apr 16 00:55	0°8	2 10 43	minimum elong	8872 Mar 23 09:11	5°Υ43'30	
evening rise	8871 Apr 10 00:33	20° 8 24'56		minimum clong	8872 Apr 07 18:10	0° 8	1 31 44
evening rise	8871 May 04 05:07	0°II		evening rise	8872 Apr 08 07:00	0° 8 51'11	
asc. node	•	0 H 11°H27'31		•	-	13° 8 38'47	-0.9m
	8871 May 11 09:59	11 П 2/31 18° П 52'25	10017124	greatest brilliancy	8872 Apr 16 07:29	29° 8 41'41	-0.9111
evening max el	8871 May 17 06:18		18°16'34	asc. node	8872 Apr 27 07:03		
retrograde	8871 May 23 15:36	22° I 16'38			8872 Apr 27 13:05	0°П	10045150
evening set	8871 May 26 14:59	21° Ⅱ 28'54	2005120	evening max el	8872 Apr 29 17:38	2° ∏ 25'49	18°45'58
inferior conj	8871 Jun 01 13:37	16° Ⅱ 05'45	3°05'30	retrograde	8872 May 06 09:13	6°Ⅱ05'48	
minimum elong	8871 Jun 01 15:31	16° Ⅱ 00′22	3°04'59	evening set	8872 May 09 16:10	5° Ⅱ 03'46	
min. Earth dist.	8871 Jun 04 01:12	13° Ⅱ 17'28	0.63828 AU		8872 May 14 19:08	30°₽ 8	
morning rise	8871 Jun 07 14:47	9° ∏ 51'35		inferior conj	8872 May 15 06:42	29° 8 24'16	3°20'23
direct	8871 Jun 14 08:07	7° Ⅱ 12'15		minimum elong	8872 May 15 07:18	29° 8 22'25	3°20'09
desc. node	8871 Jun 14 21:56	7° Ⅱ 13′20		min. Earth dist.	8872 May 17 03:08	27° 8 06'53	0.65621 AU
morning max el	8871 Jun 28 04:09		27°39'20	morning rise	8872 May 20 21:45	23° 8 05'48	
	8871 Jul 10 05:22	0ಂ ತಾ		direct	8872 May 27 09:33	20° 8 19'29	
	8871 Jul 28 12:58	$0^{\circ}\Omega$		desc. node	8872 May 31 18:56	21° 8 22'59	
morning set	8871 Aug 02 01:33	8° Ω 43'05		morning max el	8872 Jun 09 14:38	28° 8 09'23	26°50'25
max. Earth dist.	8871 Aug 07 00:09	18° Ω 49'40	1.32790 AU		8872 Jun 11 08:47	Π °0	
asc. node	8871 Aug 07 09:19	19° Ω 37'53			8872 Jul 02 23:33	0	
				morning set	8872 Jul 15 09:33	21° © 57'34	
superior conj	8871 Aug 10 00:01	25° Ω 12'01	0°26'08	max. Earth dist.	8872 Jul 19 15:30	0° Ω 16'21	1.34111 AU
minimum elong	8871 Aug 09 22:48		0°25'44		8872 Jul 19 12:14	$0^{\circ}\Omega$	
	8871 Aug 12 05:20	0° m p					
evening rise	8871 Aug 17 00:05	10° m 19'18		superior conj	8872 Jul 24 00:40	9° Ω 14'39	-0°02'21
	8871 Aug 27 01:34	0∘ ত		minimum elong	8872 Jul 24 00:48	9° Ω 15'21	0°02'31
evening max el	8871 Sep 08 12:21	16° ≙ 55'41	22°58'32	behind sun begin	8872 Jul 23 19:08	8° Ω 45'48	
desc. node	8871 Sep 10 20:45	19° ≏ 01'48		behind sun end	8872 Jul 24 06:28	9° Ω 44'56	
retrograde	8871 Sep 21 19:32	23° ≙ 34'10		asc. node	8872 Jul 24 06:18	9° Ω 44'02	
evening set	8871 Sep 25 15:12	23° ≏ 02'14		evening rise	8872 Jul 31 10:11	24° Ω 50'45	
min. Earth dist.	8871 Oct 02 20:59	19° ≏ 44'37	0.55256 AU		8872 Aug 02 21:58	O° Mp	
inferior conj	8871 Oct 04 08:23	18° ≏ 53'36	-5°29'52	evening max el	8872 Aug 20 05:18	27° Mp 16′32	21°23'16
minimum elong	8871 Oct 04 04:01	18° ≏ 59'54	5°29'24		8872 Aug 23 09:14	0。 ত	
morning rise	8871 Oct 12 18:50	15° ≏ 04'10		desc. node	8872 Aug 27 17:51	2° ≏ 25'54	
direct	8871 Oct 15 20:08	14° ≏ 42'19		retrograde	8872 Sep 01 08:53	3° ₽ 17'58	
morning max el	8871 Oct 26 22:50	19° ≙ 54'59	20°46'15	evening set	8872 Sep 03 20:59	ვ° ჲ 03'33	
asc. node	8871 Nov 03 09:06	29° ഫ 03'31			8872 Sep 11 11:12	30°₽.₩	
	8871 Nov 03 23:50	0°M		inferior conj	8872 Sep 13 01:44	29° Mp 06'25	-4°31'15
morning set	8871 Nov 15 04:04	20°M47'41		minimum elong	8872 Sep 12 16:13	29° m 19'44	4°28'53
-	8871 Nov 19 14:15	0° ∡ ¹		min. Earth dist.	8872 Sep 13 05:28	29°M 01'09	0.54669 AU
				morning rise	8872 Sep 21 12:14	25° m 14'55	
superior conj	8871 Nov 22 14:21	6° ≯ 12'25	1°35'04	direct	8872 Sep 25 05:00	24° m/45'19	
minimum elong	8871 Nov 22 16:03	6° ≯ 21'10	1°35'11		8872 Oct 06 23:39	0∘ ⊽	
max. Earth dist.	8871 Nov 27 13:52	16° ≯ 10'04	1.35885 AU	morning max el	8872 Oct 07 19:10	0° ჲ 44'10	22°22'52
evening rise	8871 Dec 01 12:50	23° х 41'39		asc. node	8872 Oct 20 06:03	17° £ 25'08	- -
	8871 Dec 05 00:15	0°පි			8872 Oct 26 21:48	0°M	
desc. node	8871 Dec 03 00:13	4° る 52'45		morning set	8872 Oct 20 21:48 8872 Oct 29 14:37	5°M35'50	
acce. noue	8871 Dec 07 13:23	0°≈			30,2 300 27 14.37	5 11 6 33330	
evening max el	8872 Jan 06 01:03	15°≈16'32	26°14'31	superior conj	8872 Nov 05 16:19	20°M40'54	1°40'38
retrograde	8872 Jan 18 19:27	22°≈30'37	20 1101	minimum elong	8872 Nov 05 16:44	20°M43'05	1°40'49
evening set	8872 Jan 25 01:16	19°≈58'46		max. Earth dist.	8872 Nov 09 04:59	28°M03'34	1.34161 AU
J. J 5 500	55,2 Juli 25 01.10	1, 1, 5, 5, 5, 5, 5, 5		Darm dist.	30,21101 07 04.37	_0 1100334	1.5 .101 /10

	8872 Nov 10 03:45	0° ∡ 7		max. Earth dist.	8873 Oct 23 04:37	10°ML09'06	1.32860 AU
evening rise	8872 Nov 13 17:43	7° ∡ *07'54		evening rise	8873 Oct 28 10:03	21°M04'13	
desc. node	8872 Nov 23 16:31	25° ₹ 10'02		C	8873 Nov 01 23:35	0° ∡ ¹	
	8872 Nov 26 15:01	8°0		desc. node	8873 Nov 10 13:34	15° ∡ ′06'46	
evening max el	8872 Dec 18 14:22	28° る 54'46	27°03'43		8873 Nov 20 13:32	8°0	
-	8872 Dec 19 18:22	0°≈		evening max el	8873 Dec 01 02:33	12° る 12'23	27°28'09
retrograde	8872 Dec 31 22:19	6° ≈ 15'34		retrograde	8873 Dec 14 18:25	19° る 31'32	
evening set	8873 Jan 07 14:45	3° ≈ 40′07		evening set	8873 Dec 21 18:24	16° る 59'39	
	8873 Jan 11 10:20	30°₹ る		min. Earth dist.	8873 Dec 25 12:47	13° る 42'18	0.63748 AU
min. Earth dist.	8873 Jan 11 13:37	29° る 50'57	0.65406 AU	inferior conj	8873 Dec 28 03:06	11° る 03'02	-1°58'44
inferior conj	8873 Jan 13 16:39	27° る 26'33	-0°50'51	minimum elong	8873 Dec 28 06:50	10° る 53'26	1°56'59
minimum elong	8873 Jan 13 18:08	27° る 22'20	0°50'01	asc. node	8874 Jan 03 02:27	6° る 04'47	
asc. node	8873 Jan 16 05:23	24° る 42'31		morning rise	8874 Jan 03 21:06	5° る 43'47	
morning rise	8873 Jan 19 22:49	21° る 52'16		direct	8874 Jan 06 07:12	5° る 14'55	
direct	8873 Jan 22 15:59	21° る 12'33		morning max el	8874 Jan 12 19:32	8° る 37'36	17°49'02
morning max el	8873 Jan 29 02:12	24° る 36'51	18°04'59		8874 Jan 27 03:18	0° ≈	
	8873 Feb 02 13:55	0° ≈		morning set	8874 Jan 29 09:08	3° ≈ 50'41	
morning set	8873 Feb 16 09:24	21° ≈ 42′15		desc. node	8874 Feb 06 12:56	17° ≈ 40′26	
desc. node	8873 Feb 19 16:01	27°≈02'51					
	8873 Feb 21 11:41	0° ∀		superior conj	8874 Feb 11 01:59	25° ≈ 10′03	
				minimum elong	8874 Feb 10 22:23	24°≈55'21	0°32'11
superior conj	8873 Mar 03 01:32	15°) 18′23			8874 Feb 14 01:36	0° ∀	
minimum elong	8873 Mar 02 17:00	14°) (44'42		max. Earth dist.	8874 Feb 16 18:39	4°) 19'57	1.44653 AU
max. Earth dist.	8873 Mar 05 23:40		1.45436 AU	evening rise	8874 Feb 26 17:00	19°) (49'48	
	8873 Mar 12 10:54	0° Υ			8874 Mar 05 09:33	0°Υ 	
evening rise	8873 Mar 19 05:25	10° Y 29'57		evening max el	8874 Mar 27 02:49	29° Y 44'22	20°33'04
4 41 711	8873 Mar 31 22:55	0°8	0.7	1	8874 Mar 27 09:02	0°8	
greatest brilliancy	8873 Apr 01 06:07	0° 8 26'55	-0.7m	asc. node	8874 Apr 01 01:14	3° 8 37'35	
evening max el	8873 Apr 13 00:55	16° 8 04'18	19°32'08	retrograde	8874 Apr 04 05:05	4° 8 27'50	
asc. node	8873 Apr 14 04:08	17° 8 09'38		evening set	8874 Apr 08 05:28	2° 8 55'22 30° RY	
retrograde	8873 Apr 20 06:31	20° 8 11'23 18° 8 54'18		infarior agni	8874 Apr 11 02:35	30° ₹ 1 26° Y 47'51	3°07'47
evening set inferior conj	8873 Apr 23 21:42 8873 Apr 29 07:21	18 8 59'55	3°20'12	inferior conj minimum elong	8874 Apr 13 12:52 8874 Apr 13 11:21	26° Y 53'07	3°07'28
minimum elong	8873 Apr 29 06:45	12 8 01'56	3°20'00	min. Earth dist.	8874 Apr 14 04:11	25° Υ 55'20	0.67926 AU
min. Earth dist.	8873 Apr 30 12:45	11° 8 23'00	0.67002 AU	morning rise	8874 Apr 18 17:01	23 γ 33 20 20° γ 31'46	0.07920 AU
morning rise	8873 May 04 15:26	6° 8 41'27	0.07002 AU	direct	8874 Apr 24 06:11	18° Υ 03'44	
direct	8873 May 10 17:18	3° 8 59'42		morning max el	8874 May 05 09:43	24° Υ '43'43	24°11'56
desc. node	8873 May 18 15:55	7° 8 25'38		desc. node	8874 May 05 12:53	24° Υ '51'44	21 1130
morning max el	8873 May 23 00:32	11° 8 21'42	25°37'56	dese. Hode	8874 May 10 03:35	0°8	
morning max or	8873 Jun 06 21:26	0°II	25 57 50		8874 May 31 08:26	0°П	
	8873 Jun 25 15:20	0°©		morning set	8874 Jun 10 01:17	16° Ⅱ 03'17	
morning set	8873 Jun 28 03:07	4°528'34		max. Earth dist.	8874 Jun 13 17:47	22° I I33'05	1.38031 AU
max. Earth dist.	8873 Jul 01 20:08	11°522'20	1.35898 AU		8874 Jun 17 19:35	0ಂ ತಾ	
superior conj	8873 Jul 07 16:51	22° 5 49'17	-0°33'35	superior conj	8874 Jun 20 21:14	5° 5 47'39	-1°05'49
minimum elong	8873 Jul 07 18:52	22° © 59'25	0°33'25	minimum elong	8874 Jun 21 01:23	6° © 07'32	1°05'22
asc. node	8873 Jul 11 03:14	29° 5 346'59		asc. node	8874 Jun 28 00:14	19° 5 43'25	
	8873 Jul 11 05:47	$0^{\circ}\Omega$		evening rise	8874 Jun 29 17:09	23° © 05'49	
evening rise	8873 Jul 15 16:42	9° Ω 08′28			8874 Jul 03 06:06	$0^{\circ}\Omega$	
	8873 Jul 26 23:17	0° ™		evening max el	8874 Jul 16 05:05	19° Ω 57'06	19°04'05
evening max el	8873 Aug 02 10:40	8° m 14'05	20°03'31	retrograde	8874 Jul 25 01:19	24° Ω 20′06	
retrograde	8873 Aug 12 22:26	13° m 25'13		evening set	8874 Jul 26 23:03	24° Ω 08'43	
evening set	8873 Aug 14 20:13	13°M) 15'42		desc. node	8874 Aug 01 12:05	21° Q 46'32	
desc. node	8873 Aug 14 14:58	13° m 17'44		inferior conj	8874 Aug 04 08:01	19° Ω 54'52	-0°52'09
inferior conj	8873 Aug 23 21:11	9° m 16′32		minimum elong	8874 Aug 04 05:46	19° Ω 58'44	
minimum elong	8873 Aug 23 13:37	9° ™ 27'52	2°45'19	min. Earth dist.	8874 Aug 07 05:33	17° Ω 56′02	0.56294 AU
min. Earth dist.	8873 Aug 25 15:42	8° Mp 12'56	0.55038 AU	morning rise	8874 Aug 12 09:24	15° Ω 05'41	
morning rise	8873 Sep 01 05:38	5° Mp 03'04		direct	8874 Aug 17 16:09	14° Ω 00'32	
direct	8873 Sep 05 16:42	4° ™ 19'49		morning max el	8874 Aug 31 21:02	21° Ω 16'42	25°49'03
morning max el	8873 Sep 19 08:02	11° m 01'30	24°09'02		8874 Sep 08 11:30	0° m)	
	8873 Oct 03 13:35	0∘ ⊽		asc. node	8874 Sep 23 23:57	25° m/46'00	
asc. node	8873 Oct 07 03:00	6° Ω 22'20			8874 Sep 26 02:15	0∘ ত	
morning set	8873 Oct 14 02:19	20° Ω 25'05		morning set	8874 Sep 28 13:36	5° ≏ 10'57	
	8873 Oct 18 12:31	0° M			00=10		
				superior conj	8874 Oct 05 10:19	20° ≏ 12'27	1°32'43
superior conj	8873 Oct 20 23:43	5°M23'05		minimum elong	8874 Oct 05 08:41	20° ₽ 03'20	1°32'39
minimum elong	8873 Oct 20 22:57	5° M 18'57	1~39.45	max. Earth dist.	8874 Oct 06 10:57	22° ≏ 28'20	1.32012 AU

	9974 0-4 00 21.51	00 m			0075 0 10 22-00	50 0 0115 (1020122
	8874 Oct 09 21:51	0°M		superior conj	8875 Sep 19 22:08		1°20'22
evening rise	8874 Oct 12 10:46	5°M22'26		minimum elong	8875 Sep 19 19:59	4° Ω 49'57	1°20'05
1 1	8874 Oct 25 14:16	0° 🗖		max. Earth dist.	8875 Sep 19 20:38	4° £ 53'33	1.31621 AU
desc. node	8874 Oct 28 10:41	4° ₹ 34'36		evening rise	8875 Sep 26 17:12	19° ≙ 54'27	
evening max el	8874 Nov 13 11:14	24° ∡ 56′06	27°21'49		8875 Oct 01 15:25	0° M	
	8874 Nov 20 01:42	0°₹		desc. node	8875 Oct 15 07:48	23°M21'22	
retrograde	8874 Nov 27 07:12	2° る 09'56			8875 Oct 20 06:40	0° ∡	
evening set	8874 Dec 04 09:04	29° ₰ 50'42		evening max el	8875 Oct 26 13:43	6° ≯ 53'52	26°41'42
	8874 Dec 04 03:14	30°Ŗ ⋌ ¹		retrograde	8875 Nov 09 11:45	14° ∡ *01'54	
min. Earth dist.	8874 Dec 08 01:34	26° ₹ 759'36	0.61821 AU	evening set	8875 Nov 16 06:37	12° ∡ ¹06'00	
inferior conj	8874 Dec 11 01:29	24° ∡ 16'35	-3°10'03	min. Earth dist.	8875 Nov 20 03:38	9° ∡ ¹29'55	0.59731 AU
minimum elong	8874 Dec 11 07:34	24° ₹ 02'44	3°07'38	inferior conj	8875 Nov 23 08:20	6° ∡ 57'53	-4°18'51
morning rise	8874 Dec 18 08:20	19° ∡ 15'49		minimum elong	8875 Nov 23 15:48	6° ∡ ¹43'02	4°16'35
direct	8874 Dec 20 13:59	18° ₹ 54'13		morning rise	8875 Dec 01 03:28	2° ∡ 18'37	
asc. node	8874 Dec 20 23:31	18° ₹ 54'55		direct	8875 Dec 03 08:05	2° ∡ 01'01	
morning max el	8874 Dec 27 11:57	22° ҂ ¹24'20	17°51'00	asc. node	8875 Dec 07 20:34	3° ∡ ¹20′05	
	8875 Jan 02 09:17	o°S		morning max el	8875 Dec 11 00:02	5° ∡ ¹47'47	18°12'14
morning set	8875 Jan 12 05:52	16° る 58'34			8875 Dec 26 07:22	8°0	
	8875 Jan 19 13:09	0° ≈		morning set	8875 Dec 26 17:35	0° る 48'07	
superior conj	8875 Jan 23 03:39	6° ≈ 14'34	0°09'22	superior conj	8876 Jan 05 05:25	18° る 27'49	0°44'32
minimum elong	8875 Jan 23 04:31	6°≈18'16	0°09'26	minimum elong	8876 Jan 05 08:27	18° る 41'26	0°44'18
behind sun begin	8875 Jan 22 21:32	5° ≈ 48'19		desc. node	8876 Jan 11 06:50	29° る 07'55	
behind sun end	8875 Jan 23 11:31	6° ≈ 48'09			8876 Jan 11 19:01	0° ≈	
desc. node	8875 Jan 24 09:52	8° ≈ 23'14		max. Earth dist.	8876 Jan 12 20:30	1° ≈ 48'18	1.41326 AU
max. Earth dist.	8875 Jan 30 10:08	18° ≈ 22'46	1.43227 AU	evening rise	8876 Jan 17 17:45	9° ≈ 54'04	
evening rise	8875 Feb 06 08:58	29° ≈ 28'05			8876 Jan 30 17:56	0° ∀	
C	8875 Feb 06 17:09	0° ∀		evening max el	8876 Feb 20 15:17	27° ¥ 08'13	23°04'30
	8875 Feb 27 01:27	$0^{\circ}\mathbf{\Upsilon}$		Č	8876 Feb 23 18:43	0° Y	
evening max el	8875 Mar 09 23:12	13° Y 25′04	21°45'25	retrograde	8876 Mar 01 22:42	3° Y 14'35	
asc. node	8875 Mar 18 22:23	18° Ƴ 50'07		asc. node	8876 Mar 04 19:30	2° Y '33'59	
retrograde	8875 Mar 19 03:00	18° Y 50'18		evening set	8876 Mar 06 20:42	1° Y °12'10	
evening set	8875 Mar 23 13:39	17° Y ′02'32		- · · · · · · · · · · · · · · · · · · ·	8876 Mar 08 03:07	30°R) €	
inferior conj	8875 Mar 28 21:01	10° Y 44′20	2°44'58	inferior conj	8876 Mar 12 05:50	24°) 46'33	2°12'50
minimum elong	8875 Mar 28 18:56	10° Υ 51'37	2°44'28	minimum elong	8876 Mar 12 03:36	24° ¥ 54'16	
min. Earth dist.	8875 Mar 28 23:25	10° Υ 36'01	0.68401 AU	min. Earth dist.	8876 Mar 11 20:12	25° H 19'52	0.68448 AU
morning rise	8875 Apr 03 00:03	4° Υ 32'04	0.00401710	morning rise	8876 Mar 17 10:26	18°\(\frac{1}{39}\)'23	0.00440710
direct	8875 Apr 07 23:22	2° Υ 23'26		direct	8876 Mar 21 19:56	16° X 52'40	
morning max el	8875 Apr 17 20:09	8° Υ 13'03	22°42'11	morning max el	8876 Mar 30 11:08		21°17'22
desc. node	8875 Apr 22 09:49	13° Υ 18'03	22 42 11	morning max ci	8876 Apr 06 09:53	0° Υ	21 1/22
desc. node	8875 May 04 19:44	0° 8		desc. node	8876 Apr 08 06:44	2° Υ 28'09	
	· · · · · · · · · · · · · · · · · · ·			desc. Hode	-		
morning set	8875 May 21 22:37	26° 8 27'42 0° Ⅱ			8876 Apr 27 02:14	0° 8	
	8875 May 24 01:51		1 40200 ATT	morning set	8876 Apr 30 16:48	5° 8 37'57	1 42207 ATT
max. Earth dist.	8875 May 26 14:56	4°Д1/49	1.40289 AU	max. Earth dist.	8876 May 07 17:01	16° 8 53'48	1.42397 AU
superior conj	8875 Jun 03 09:34	17° Ⅱ 58'49	1926!10	superior conj	8876 May 15 01:14	29° 8 12'57	2000114
minimum elong	8875 Jun 03 09:34 8875 Jun 03 15:22	17 Ⅲ 3849 18° Ⅲ 25'06		minimum elong	8876 May 15 06:39	29° 8 36'12	
minimum ciong	8875 Jun 09 21:10	0°9	1 33 43	minimum ciong	8876 May 15 12:11	0°Ⅱ	2 00 03
avanina riaa	8875 Jun 13 08:17	6° © 33'28		evening rise		0 H 19°∏21'44	
evening rise		9° 9 28'19		ě	8876 May 26 10:03	19 П 21 44 28° П 56'59	
asc. node	8875 Jun 14 21:16			asc. node	8876 May 31 18:19	28 п 3639	
	8875 Jun 27 06:53	0° Ω	10025121		8876 Jun 01 08:43		10007104
evening max el	8875 Jun 29 09:33	2° Ω 20'02	18°25'31	evening max el	8876 Jun 11 20:21		18°07'04
retrograde	8875 Jul 06 23:02	6° Ω 06'59		retrograde	8876 Jun 18 14:22	18°540'30	
evening set	8875 Jul 09 02:59	5° Ω 49'14	004010	evening set	8876 Jun 21 02:01	18°5512'52	2001125
inferior conj	8875 Jul 16 16:13	1° Ω 15'43	0°48'02	inferior conj	8876 Jun 27 21:15	13°5519'12	
minimum elong	8875 Jul 16 17:52	1° £ 12′23	0°47'14	minimum elong	8876 Jun 28 00:13	13°5512'16	2°00'19
	8875 Jul 18 05:34	30° ₹ 55		min. Earth dist.	8876 Jul 01 03:48	10° © 16'46	0.60425 AU
desc. node	8875 Jul 19 09:12	29°504'49	0.50100 : **	morning rise	8876 Jul 04 19:40	7°526'53	
min. Earth dist.	8875 Jul 20 01:00	28°934'10	0.58199 AU	desc. node	8876 Jul 05 06:16	7° © 10'38	
morning rise	8875 Jul 24 05:17	25°950'18		direct	8876 Jul 11 08:59	5°521'08	A #0 101= -
direct	8875 Jul 30 06:03	24°515'31		morning max el	8876 Jul 25 16:39	13° © 18'05	27°48'50
_	8875 Aug 11 12:39	$0^{\circ}\Omega$			8876 Aug 08 00:11	0 ° Ω	
morning max el	8875 Aug 13 15:28	1° Ω 57'00	27°06'11		8876 Aug 25 03:05	0° m)	
	8875 Sep 02 18:55	0° ™		morning set	8876 Aug 27 03:53	4° m 10′04	
asc. node	8875 Sep 10 20:54	15° ™ 28'06		asc. node	8876 Aug 27 17:52	5° Mp 22′58	
morning set	8875 Sep 12 22:43	19° m 47'40		max. Earth dist.	8876 Sep 02 05:57	17° m) 14'55	1.31697 AU
	8875 Sep 17 15:41	0∘ ⊽					

	00769 02 00 21	100 7 4610 7	1000157		0077 4 10 10 07	40 m 10100	0040150
superior conj	8876 Sep 03 09:21	19° Mp 46'05	1°02'57	superior conj	8877 Aug 18 18:07	4° Mp 19'20	0°40'50
minimum elong	8876 Sep 03 07:08	19° m 33'52	1°02'31	minimum elong	8877 Aug 18 16:22	4° 100 100 100 100 100 100 100 100 100 10	0°40'23
	8876 Sep 08 00:34	0∘ ⊽		evening rise	8877 Aug 25 14:42	19° m 15'39	
evening rise	8876 Sep 10 03:09	4° £ 34'03			8877 Aug 30 19:32	0∘ ⊽	
	8876 Sep 23 11:39	0°M		desc. node	8877 Sep 18 02:02	27° Ω 41'10	
desc. node	8876 Oct 01 04:55	11°M10'54		evening max el	8877 Sep 18 20:34	28° ≏ 26'55	23°56'11
evening max el	8876 Oct 07 08:18	18°M00'56	25°29'54		8877 Sep 20 13:26	0°M₊	
retrograde	8876 Oct 21 06:12	25°M02'25		retrograde	8877 Oct 02 12:12	5°M16'46	
evening set	8876 Oct 27 06:09	23°M39'17		evening set	8877 Oct 07 05:02	4°M28'23	
min. Earth dist.	8876 Oct 31 20:32	21°M01'18	0.57686 AU	min. Earth dist.	8877 Oct 13 07:07	1° M 30'11	0.55974 AU
inferior conj	8876 Nov 03 20:20	18°M57'34	-5°14'00	inferior conj	8877 Oct 15 12:03	0° ጤ 09'54	
minimum elong	8876 Nov 04 02:22	18° M 47'09	5°12'54	minimum elong	8877 Oct 15 12:14	0° ™ 09'37	5°37'51
morning rise	8876 Nov 12 00:54	14° M 40'54			8877 Oct 15 18:33	30°Ŗ 죠	
direct	8876 Nov 14 09:19	14°M24'03		morning rise	8877 Oct 23 21:28	26° ≙ 13'02	
morning max el	8876 Nov 23 03:57	18° ™ 37'05	18°54'24	direct	8877 Oct 26 15:29	25° ≙ 53'43	
asc. node	8876 Nov 23 17:36	19°M10'52			8877 Nov 05 01:40	0° M ₊	
	8876 Dec 01 13:26	0° ∡ ¹		morning max el	8877 Nov 05 20:15	0°M42'15	19°58'57
morning set	8876 Dec 09 15:35	15° ∡ ¹05'27		asc. node	8877 Nov 10 14:34	6° ™ 12'13	
	8876 Dec 17 06:30	5°0		morning set	8877 Nov 23 20:26	29°M41'01	
					8877 Nov 24 00:10	0° ∡ ¹	
superior conj	8876 Dec 18 02:29	1° る 35'30	1°10'53				
minimum elong	8876 Dec 18 05:43	1° る 50'58	1°10'43	superior conj	8877 Dec 01 13:55	15° ∡ ¹24'00	1°28'32
max. Earth dist.	8876 Dec 25 02:49	14° る 31'02	1.39181 AU	minimum elong	8877 Dec 01 16:19	15° ∡ 36′03	1°28'33
desc. node	8876 Dec 28 03:49	19° る 50'28		max. Earth dist.	8877 Dec 07 09:13	26° ∡ ¹40'53	1.37038 AU
evening rise	8876 Dec 29 00:17	21° る 18'12			8877 Dec 09 03:57	8°0	
8 11	8877 Jan 03 05:50	0° ≈		evening rise	8877 Dec 11 03:39	3° る 37'24	
	8877 Jan 23 18:51	0° ∀		desc. node	8877 Dec 15 00:50	10° る 27'17	
evening max el	8877 Feb 02 05:04	10°) 54'44	24°24'18	dese. node	8877 Dec 27 06:23	0°≈	
retrograde	8877 Feb 13 14:44	17°) 35'22	2.2.10	evening max el	8878 Jan 15 18:22	24° ≈ 43'32	25°37'49
evening set	8877 Feb 19 01:00	15°) 19'33		0 · 0 · · · · · · · · · · · · · · · · ·	8878 Jan 22 08:49	0° ∀	
asc. node	8877 Feb 19 16:37	14°) (1733		retrograde	8878 Jan 28 02:08	1°) 47'48	
min. Earth dist.	8877 Feb 23 16:15	10°) (1121	0.68092 AU	retrograde	8878 Feb 02 04:56	30°R≈	
inferior conj	8877 Feb 24 13:26	8°) 50'44	1°31'57	evening set	8878 Feb 03 01:01	29°≈20'53	
minimum elong	8877 Feb 24 11:32	8°) 57'07	1°31'23	asc. node	8878 Feb 06 13:42	25°≈38'36	
morning rise	8877 Mar 01 22:09	2° ¥ 50'07	1 31 23	min. Earth dist.	8878 Feb 07 09:16	23 ≈38 30 24°≈37'51	0.67350 AU
direct	8877 Mar 05 18:35	1°) (25'18		inferior conj	8878 Feb 08 17:57	24 ≈57 31 22°≈53'39	0.07330 AO 0°42'43
morning max el	8877 Mar 13 09:18	5°) 42'28	20°03'40	minimum elong	8878 Feb 08 16:55	22°≈56'59	0°42'27
desc. node	8877 Mar 26 03:38	22° H 09'40	20 03 40	morning rise	8878 Feb 14 09:14	17°≈01'34	0 4227
desc. node		22 π 0940 0° γ		•	8878 Feb 17 17:52		
marning sat	8877 Mar 31 11:06 8877 Apr 09 16:04	0 γ 14° Υ′ 00'07		direct	8878 Feb 24 15:22	15°≈56'47 19°≈43'39	19°04'39
morning set		0° 8		morning max el		19° ≈ 43°39 0° ∺	19-04-39
D d E c	8877 Apr 19 21:06		1 44007 411	1 '11'	8878 Mar 04 19:57		0.7
max. Earth dist.	8877 Apr 20 02:17	0° 8 20'39	1.44097 AU	greatest brilliancy	8878 Mar 10 04:22	7°) 54'34	-0.7m
	0077 4 05 16 21	00 40000	2011150	desc. node	8878 Mar 13 00:32	12°) (14′21	
superior conj	8877 Apr 25 16:31	9° 8 22'33		morning set	8878 Mar 19 19:04	22°) (41'31	
minimum elong	8877 Apr 25 17:42	9° 8 27'24	2°12'06		8878 Mar 24 12:01	0°Υ	
	8877 May 07 23:14	0°II		max. Earth dist.	8878 Apr 02 18:04	14° Ƴ 27'19	1.45191 AU
evening rise	8877 May 08 17:39	1° Ⅱ 19'08			0050 4 05 00 56	100000 4150	200 512 6
asc. node	8877 May 18 15:22	18° Ⅱ 02'49	10005150	superior conj	8878 Apr 05 08:56	18° Ƴ 34'58	
evening max el	8877 May 26 09:43	28° Ⅲ 30′02	18°07'50	minimum elong	8878 Apr 05 02:59	18° Y 11'30	2°05'14
	8877 May 28 02:40	0.2			8878 Apr 12 12:54	0° 8	
retrograde	8877 Jun 01 19:13	1°950'36		evening rise	8878 Apr 20 02:53	12° 8 18'36	
evening set	8877 Jun 04 14:28	1° © 10'32			8878 May 01 00:45	Π $^{\circ}0$	
	8877 Jun 06 12:40	30°Ŗ Ⅱ		asc. node	8878 May 05 12:25	6° ∏ 38'18	
inferior conj	8877 Jun 10 19:28	25° ∏ 57'46		evening max el	8878 May 09 22:32	11° ∏ 58'40	18°26'59
minimum elong	8877 Jun 10 22:00	25° ∏ 51′02	2°47'48	retrograde	8878 May 16 09:18	15° Ⅱ 27'46	
min. Earth dist.	8877 Jun 13 15:13	22° Ⅱ 58'30	0.62649 AU	evening set	8878 May 19 11:59	14° Ⅱ 33'51	
morning rise	8877 Jun 17 03:47	19° ∏ 49′20		inferior conj	8878 May 25 06:43	9° Ⅱ 03'28	3°13'52
desc. node	8877 Jun 22 03:17	17° Ⅱ 29'13		minimum elong	8878 May 25 08:04	8°∏59'29	3°13'30
direct	8877 Jun 23 21:54	17° Ⅱ 19'10		min. Earth dist.	8878 May 27 11:51	6° Ⅱ 27'03	0.64638 AU
morning max el	8877 Jul 07 23:17	25° Ⅱ 21'44	27°53'17	morning rise	8878 May 31 03:13	2° Ⅱ 47′05	
	8877 Jul 12 05:17	0 \circ \odot		direct	8878 Jun 06 18:55	0°Ⅲ03′31	
	8877 Aug 01 12:00	$0^{\circ}\Omega$		desc. node	8878 Jun 09 00:19	0° Ⅱ 19'44	
morning set	8877 Aug 11 03:01	18° Ω 12'22		morning max el	8878 Jun 20 09:07	8° Ⅱ 01′13	27°22'05
asc. node	8877 Aug 14 14:48	25° Ω 25'48			8878 Jul 07 09:18	0 \circ \odot	
max. Earth dist.	8877 Aug 16 11:14	29° Ω 22'18	1.32250 AU		8878 Jul 24 19:30	0 ° Ω	
	8877 Aug 16 18:15	0° m y		morning set	8878 Jul 25 17:25	1° Ω 46'32	
				max. Earth dist.	8878 Jul 30 08:44	11° Ω 05'56	1.33293 AU

		_					
asc. node	8878 Aug 01 11:44	15° Ω 31'38		_	8879 Jun 30 13:37	0.20	
	0070 4 00 00 00	100 00 445	001.412.0	morning set	8879 Jul 08 19:50	14°543'59	1 2 40 1 7 4 7 7
superior conj	8878 Aug 02 22:22	18° Ω 34'47	0°14'30	max. Earth dist.	8879 Jul 12 19:46	22° © 23'33	1.34817 AU
minimum elong	8878 Aug 02 21:39	18° Ω 30'57	0°14'11		8879 Jul 16 15:09	$0 {\circ} \Omega$	
behind sun begin	8878 Aug 02 19:04	18° Ω 17'15			0070 1 1 17 10 45	20 02 (112	001.510.0
behind sun end	8878 Aug 03 00:14	18° Ω 44'40		superior conj	8879 Jul 17 19:45	2° Ω 26'13	
	8878 Aug 08 06:13	0° Mp		minimum elong	8879 Jul 17 20:38	2° Ω 30'45	0°15′21
evening rise	8878 Aug 10 01:52	3° m 52'34		behind sun begin	8879 Jul 17 18:52	2° Ω 21'38	
	8878 Aug 24 07:04	0∘ ⊽	00017140	behind sun end	8879 Jul 17 22:25	2° Ω 39'52	
evening max el	8878 Aug 31 09:03	8° ₾ 38'30	22°16'42	asc. node	8879 Jul 19 08:41	5° Ω 36'49	
desc. node	8878 Sep 04 23:10	12° £ 22'33		evening rise	8879 Jul 25 10:45	18° Ω 19'07	
retrograde	8878 Sep 13 06:02	15° Ω 03'13		. 1	8879 Jul 31 06:54	0° Mp	20047100
evening set	8878 Sep 16 11:04	14° Ω 40'26	0.54001.411	evening max el	8879 Aug 13 06:40	19° mp 11'53	20°47'00
min. Earth dist.	8878 Sep 24 14:58	11° Ω 05'51		desc. node	8879 Aug 22 20:16	24° Mp 44'05	
inferior conj	8878 Sep 25 10:41	10° Ω 38'07		retrograde	8879 Aug 24 18:18	24° Mp 53'22	
minimum elong	8878 Sep 25 03:22	10° Ω 48'24	5°10'3/	evening set	8879 Aug 26 22:01	24° Mp 42'09	2051115
morning rise	8878 Oct 03 21:22	6° £ 50'36		inferior conj	8879 Sep 05 03:03	20° m 45'26	
direct	8878 Oct 07 05:12	6° £ 25'51	21025120	minimum elong	8879 Sep 04 17:34	20° m 58'58	3°48'25
morning max el	8878 Oct 18 23:18	11° Ω 57'19	21°25'20	min. Earth dist.	8879 Sep 05 23:50	20° m 15'45	0.54707 AU
asc. node	8878 Oct 28 11:32	24° £ 08'07		morning rise	8879 Sep 13 13:07	16° Mp 47'06	
	8878 Oct 31 21:41	0°M		direct	8879 Sep 17 13:06	16° Mp 12'51	
morning set	8878 Nov 08 05:30	14°M26'15		morning max el	8879 Sep 30 15:43	22° m 30'20	23°07'42
					8879 Oct 07 05:30	0∘ ⊽	
superior conj	8878 Nov 15 11:32	29°M40'33	1°38'17	asc. node	8879 Oct 15 08:30	12° ≏ 45'56	
minimum elong	8878 Nov 15 12:42	29°M46'34	1°38'26	morning set	8879 Oct 23 16:46	29° ≏ 15'32	
	8878 Nov 15 15:17	0° ≯			8879 Oct 24 01:09	0° M	
max. Earth dist.	8878 Nov 19 20:18	8° ≯ 35′00	1.35112 AU				
evening rise	8878 Nov 24 00:18	16° ∡ 741′28		superior conj	8879 Oct 30 16:09	14°M15'52	1°40'59
	8878 Dec 01 09:26	0° ප		minimum elong	8879 Oct 30 16:02	14°M15'16	1°41'08
desc. node	8878 Dec 01 21:52	0° る 53'03		max. Earth dist.	8879 Nov 02 15:01	20°M32'10	1.33555 AU
	8878 Dec 21 16:26	0° ≈		evening rise	8879 Nov 07 10:27	0° ∡ ¹21'15	
evening max el	8878 Dec 29 07:40	8° ≈ 27'37	26°37'56		8879 Nov 07 06:10	0° ∡ ¹	
retrograde	8879 Jan 11 08:09	15° ≈ 45′02		desc. node	8879 Nov 18 18:55	21° 尽 02'15	
evening set	8879 Jan 17 18:57	13° ≈ 10′49			8879 Nov 24 10:12	8°0	
min. Earth dist.	8879 Jan 21 20:58	9° ≈ 02'30	0.66224 AU	evening max el	8879 Dec 11 20:29	21° る 57'31	27°17'22
inferior conj	8879 Jan 23 17:21	6° ≈ 50'43	-0°14'32	retrograde	8879 Dec 25 08:18	29° る 18'50	
minimum elong	8879 Jan 23 17:45	6° ≈ 49'32	0°14'11	evening set	8880 Jan 01 04:36	26° ප් 43'31	
transit middle	8879 Jan 23 17:45	6° ≈ 49'32	0°14'11	min. Earth dist.	8880 Jan 05 01:14	23° る 08'35	0.64742 AU
transit begin	8879 Jan 23 16:23	6° ≈ 53'37		inferior conj	8880 Jan 07 09:18	20° る 36'23	-1°19'02
transit end	8879 Jan 23 19:07	6° ≈ 45′28		minimum elong	8880 Jan 07 11:42	20° පි 29'51	1°17'48
asc. node	8879 Jan 24 10:47	5° ≈ 59'15		asc. node	8880 Jan 11 07:53	16° පි 44'07	
morning rise	8879 Jan 29 17:31	1°≈09'24		morning rise	8880 Jan 13 20:22	15° る 08'28	
direct	8879 Feb 01 15:49	0° ≈ 21'37		direct	8880 Jan 16 10:12	14° る 33'55	
morning max el	8879 Feb 08 03:57	3°≈50'42	18°21'58	morning max el	8880 Jan 22 20:27	17° る 56'16	17°56'05
Č	8879 Feb 26 06:27	0°) €		Č	8880 Jan 31 18:07	0° ≈	
morning set	8879 Feb 27 22:19	2°) 39′12		morning set	8880 Feb 09 06:58	14° ≈ 03'43	
desc. node	8879 Feb 27 21:28	2°) €35'47		desc. node	8880 Feb 14 18:23	23° ≈ 08'36	
					8880 Feb 18 23:09	0°) €	
superior conj	8879 Mar 15 14:10	27°) 24′25	-1°38'53				
minimum elong	8879 Mar 15 04:33	26°) 46'46	1°37'57	superior conj	8880 Feb 23 03:10	6°) 42′05	-0°58'25
max. Earth dist.	8879 Mar 16 13:26		1.45561 AU	minimum elong	8880 Feb 22 20:31	6°) 15'31	0°57'25
	8879 Mar 17 05:56	$0^{\circ}\Upsilon$		max. Earth dist.	8880 Feb 27 08:56	13° ¥ 25′23	1.45183 AU
evening rise	8879 Mar 31 12:48	22° Y 22'37			8880 Mar 09 00:40	$0^{\circ}\Upsilon$	
	8879 Apr 05 09:12	0°8		evening rise	8880 Mar 10 04:53	1° Υ 48'30	
greatest brilliancy	8879 Apr 10 20:25	8° 8 31'24	-0.8m	greatest brilliancy	8880 Mar 24 18:55	23° Y 51'36	-0.6m
asc. node	8879 Apr 22 09:29	24° 8 34'17	0.0111	greatest orimaney	8880 Mar 29 02:04	0°8	0.0111
evening max el	8879 Apr 23 08:18	25° 8 34'27	19°03'38	evening max el	8880 Apr 05 13:17	9° 8 13'09	19°56'24
retrograde	8879 Apr 30 04:56	29° 8 24'49	1, 0550	asc. node	8880 Apr 08 06:36	11° 8 38'21	1, 002 F
evening set	8879 May 03 15:19	29 8 2449		retrograde	8880 Apr 13 03:09	13° 8 35'19	
inferior conj	8879 May 09 03:22	22° 8 30'00	3°21'57	evening set	8880 Apr 16 22:02	13° 8 11'48	
·	•	22° 8 29'48		•	•	6° 8 11'25	2016/17
minimum elong	8879 May 09 03:26		3°21'46	inferior conj	8880 Apr 22 06:25		
min. Earth dist.	8879 May 10 17:12	20° 8 29'19	0.66257 AU	minimum elong	8880 Apr 22 05:22	6° 8 14'56	
morning rise	8879 May 14 15:05	16° 8 11'06		min. Earth dist.	8880 Apr 23 05:41	4° 8 53'06	0.67444 AU
direct	8879 May 20 22:56	13° 8 25'47		momini-	8880 Apr 27 09:34	30°RY	
desc. node	8879 May 26 21:19	15° 8 21'18	2/922102	morning rise	8880 Apr 27 12:26	29°Y53'27	
morning max el	8879 Jun 02 19:44	21° ႘ 05'39	26~22'03	direct	8880 May 03 09:00	27° Y 16'40	
	8879 Jun 10 12:36	Π $^{\circ}0$			8880 May 10 05:35	9° 8	

	0000 14 10 10 10	201402126			0001 4 06 00 07	1000000151	0.60104.477
desc. node	8880 May 12 18:18	2° 8 02'26	25000125	min. Earth dist.	8881 Apr 06 23:07	19° Y 29'51	0.68184 AU
morning max el	8880 May 15 05:22	4° 8 23'09	25°02'25	morning rise	8881 Apr 11 16:40	13° ℃ 48'51	
	8880 Jun 03 20:44	0°II		direct	8881 Apr 17 00:03	11° Υ 28'18	22022120
morning set	8880 Jun 20 05:48	26° Ⅱ 52'32		morning max el	8881 Apr 27 14:37	17° Y 47'46	23°33'29
F 4 F	8880 Jun 21 23:29	0.20 0.20	1.04550 444	desc. node	8881 Apr 29 15:16	19° Y 56′28	
max. Earth dist.	8880 Jun 23 20:35	3° 5 26'41	1.36770 AU		8881 May 07 19:00	0° 8	
	0000 1 20 07 20	1.500.151.15	00.4511.5		8881 May 27 22:33	0°П	
superior conj	8880 Jun 30 07:20	15°5945'47		morning set	8881 Jun 01 17:58	7° I I58'28	1 20005 444
minimum elong	8880 Jun 30 10:15	16°900'11	0°46'59	max. Earth dist.	8881 Jun 05 16:34	14° Ⅱ 45'50	1.38995 AU
asc. node	8880 Jul 05 05:40	25° © 37'05			0001 7 12 05 26	200 T 2510 5	1010110
	8880 Jul 07 09:37	0° Ω		superior conj	8881 Jun 13 05:26	28° I I25'05	
evening rise	8880 Jul 08 15:01	2° Ω 28′25		minimum elong	8881 Jun 13 10:24	28° ∏ 48'22	1°18'40
	8880 Jul 25 06:39	0° т р			8881 Jun 14 01:40	0.20	
evening max el	8880 Jul 25 17:43	0° m/28'00	19°35'41	evening rise	8881 Jun 22 11:54	16° © 13'34	
retrograde	8880 Aug 04 12:18	5° Mp 17'52		asc. node	8881 Jun 22 02:40	15° © 28'45	
evening set	8880 Aug 06 08:33	5°Mp08'18			8881 Jun 29 20:26	0 ° Ω	
desc. node	8880 Aug 08 17:23	4° Mp 30′02		evening max el	8881 Jul 08 16:56	12° Ω 28'57	18°45'10
inferior conj	8880 Aug 15 03:44	1° m 04'14		retrograde	8881 Jul 16 22:34	16° Ω 34'17	
minimum elong	8880 Aug 14 22:22	1° Mp 12'43	1°56'27	evening set	8881 Jul 18 22:40	16° Ω 20′39	
	8880 Aug 16 20:19	30°R $Ω$		inferior conj	8881 Jul 26 23:17	11° Ω 59'04	
min. Earth dist.	8880 Aug 17 11:43	29° Ω 35'59	0.55468 AU	minimum elong	8881 Jul 26 23:01	11° Ω 59'34	0°06'45
morning rise	8880 Aug 23 09:48	26° Ω 36'01		transit middle	8881 Jul 26 23:01	11° Ω 59'34	0°06'45
direct	8880 Aug 28 05:02	25° Ω 44'31		transit begin	8881 Jul 26 19:40	12° Ω 05'42	
	8880 Sep 07 23:42	O° My		transit end	8881 Jul 27 02:22	11° Ω 53′25	
morning max el	8880 Sep 11 03:54	2° Mp 43′00	24°53'26	desc. node	8881 Jul 26 14:31	12° Ω 15′08	
	8880 Sep 30 05:18	0∘ ত		min. Earth dist.	8881 Jul 30 03:45	9° Ω 39'38	0.57047 AU
asc. node	8880 Oct 01 05:28	1° ≏ 55'02		morning rise	8881 Aug 03 19:56	6° Ω 53'54	
morning set	8880 Oct 07 04:31	14° ≏ 03'47		direct	8881 Aug 09 11:10	5° Ω 36′25	
				morning max el	8881 Aug 23 18:31	13° Ω 04'43	26°25'33
superior conj	8880 Oct 14 01:12	29° ഫ 02'05	1°37'24		8881 Sep 06 02:18	0° m ⁄	
minimum elong	8880 Oct 14 00:02	28° ≏ 55'38	1°37'26	asc. node	8881 Sep 18 02:24	21° m 26'48	
	8880 Oct 14 11:47	0° M.		morning set	8881 Sep 21 15:02	28° m 45'39	
max. Earth dist.	8880 Oct 15 17:36	2°M42'43	1.32436 AU		8881 Sep 22 04:58	0∘ ত	
evening rise	8880 Oct 21 06:43	14°M27'53					
	8880 Oct 29 07:58	0° ∡ ¹		superior conj	8881 Sep 28 12:32	13° ≙ 51'48	1°28'07
desc. node	8880 Nov 04 15:59	10° ∡ ¹47'53		minimum elong	8881 Sep 28 10:37	13° ≙ 41'11	1°27'58
	8880 Nov 18 12:22	0°ප		max. Earth dist.	8881 Sep 29 01:40	15° ≙ 04'37	1.31784 AU
evening max el	8880 Nov 23 07:26	5° ප 02'31	27°29'30	evening rise	8881 Oct 05 10:08	28° ≏ 52'36	
retrograde	8880 Dec 07 01:48	12° る 20'33		-	8881 Oct 05 23:00	0° M ₊	
evening set	8880 Dec 14 03:17	9° ප 52'42		desc. node	8881 Oct 22 13:05	29° ™ 59'39	
min. Earth dist.	8880 Dec 17 20:17	6° る 47'25	0.62951 AU		8881 Oct 22 13:11	0° ∡ ¹	
inferior conj	8880 Dec 20 15:05	4° る 04'42	-2°28'51	evening max el	8881 Nov 05 14:00	17° ∡ ¹28'34	27°09'07
minimum elong	8880 Dec 20 19:51	3°₹53'03	2°26'45	retrograde	8881 Nov 19 11:18	24° ∡ ³39'43	
C	8880 Dec 25 09:43	30°₽ ✓		evening set	8881 Nov 26 11:16	22° ∡ ¹29'31	
morning rise	8880 Dec 27 14:32	28° ₹ 52'58		min. Earth dist.	8881 Nov 30 04:44	19° ∡ ¹46'11	0.60936 AU
asc. node	8880 Dec 28 04:59	28° ∡ ¹41'41		inferior conj	8881 Dec 03 07:21	17° ∡ ¹06'02	-3°40'04
direct	8880 Dec 29 22:13	28° ∡ ¹27'47		minimum elong	8881 Dec 03 14:14	16° ∡ 751'13	3°37'35
	8881 Jan 03 08:07	0°రె		morning rise	8881 Dec 10 19:35	12° ∡ 13'46	
morning max el	8881 Jan 05 13:54	1° る 52'52	17°47'35	direct	8881 Dec 13 00:14	11° ∡ 754'16	
morning set	8881 Jan 21 16:32	26° ⋜ 40′19		asc. node	8881 Dec 15 02:04	12° ∡ 12'25	
Č	8881 Jan 23 14:12	0° ≈		morning max el	8881 Dec 20 04:53	15° ∡ ³30'40	17°57'31
desc. node	8881 Jan 31 15:18	13° ≈ 48'57		C	8881 Dec 30 05:52	0° ප	
				morning set	8882 Jan 04 20:22	10° පි 08'11	
superior conj	8881 Feb 02 14:08	17° ≈ 04'45	-0°14'22	C			
minimum elong	8881 Feb 02 12:41	16° ≈ 58'40		superior conj	8882 Jan 15 02:31	28° る 39'34	0°25'17
behind sun begin	8881 Feb 02 08:04	16° ≈ 39'30		minimum elong	8882 Jan 15 04:35	28° る 48'36	
behind sun end	8881 Feb 02 17:17	17° ≈ 17'48			8882 Jan 15 20:56	0° ≈	
max. Earth dist.	8881 Feb 09 02:15	27° ≈ 41'49	1.44114 AU	desc. node	8882 Jan 18 12:14	4° ≈ 32'43	
	8881 Feb 10 12:50	0° ∀		max. Earth dist.	8882 Jan 22 15:41	11° ≈ 30'17	1.42472 AU
evening rise	8881 Feb 17 16:29	11°) 11'59		evening rise	8882 Jan 28 14:36	21°≈08'33	, _ 1.20
	8881 Mar 02 04:19	0°Υ			8882 Feb 03 07:12	0° ∀	
evening max el	8881 Mar 19 12:49	22° Υ 53'40	21°02'43		8882 Feb 24 12:23	0°Υ	
asc. node	8881 Mar 26 03:45	27° Υ 36'14	0 <u>-</u> 10	evening max el	8882 Mar 02 07:19	6° Υ 35'40	22°18'35
retrograde	8881 Mar 28 01:41	27° Υ 54'45		retrograde	8882 Mar 11 22:41	12° Υ 18'14	10,55
evening set	8881 Apr 01 06:11	26°Y15'59		asc. node	8882 Mar 13 00:54	12° Υ 13'14	
inferior conj	8881 Apr 06 13:21	20° Υ 03'42	2°59'18	evening set	8882 Mar 16 14:04	10° Υ 24'14	
minimum elong	8881 Apr 06 11:32	20° Υ 09'59	2°58'54	inferior conj	8882 Mar 21 22:01	4°Υ02'42	2°32'26
mmmigin ciong	500171pi 00 11.52	20 1 07 39	2 30 34	miorioi conj	5002 min 21 22.01	. 10272	2 32 20

minimum elong	8882 Mar 21 19:49	4° Υ 10'23	2°31'52	min. Earth dist.	8883 Mar 05 15:53	18° ¥ 55'43	0.68354 AU
min. Earth dist.	8882 Mar 21 19:16	4°Υ1023	0.68481 AU	inferior conj	8883 Mar 06 06:31	18° X 05'40	1°56'32
iiiii. Eartii tiist.	8882 Mar 24 23:38	4 1 12 17 30° ₹	0.06461 AU	minimum elong	8883 Mar 06 04:22		1°55'54
morning rise	8882 Mar 27 01:24	27°) 52'30		morning rise	8883 Mar 11 12:35	12° X 01'22	1 33 34
direct	8882 Mar 31 18:54	27 \(\)(3230\) 25°\(\)(52'50\)		direct	8883 Mar 15 16:27	12 (01 22 10°) 24'08	
direct	8882 Apr 08 17:01	23 π 3230			8883 Mar 23 20:17	10 X 2408 15° X 03'44	20044122
marring may al	•	0° γ 1° Υ' 20'01	22°04'57	morning max el desc. node		28° X 03'44	20-44-22
morning max el desc. node	8882 Apr 10 02:25	8° Υ 42'46	22-04-57	desc. node	8883 Apr 03 09:06	28°π0703 0° Υ	
desc. node	8882 Apr 16 12:12	0° 8		marning got	8883 Apr 04 17:18	0 1 26° Υ 33'46	
. ,	8882 May 01 16:12			morning set	8883 Apr 22 11:45		
morning set	8882 May 13 03:34	17° 8 50'06	1 41227 411	E 4 E 4	8883 Apr 24 16:30	0°8	1 42107 411
max. Earth dist.	8882 May 18 15:28	26° 8 51'53	1.41227 AU	max. Earth dist.	8883 Apr 30 21:11	9° 8 52'39	1.43187 AU
	8882 May 20 12:05	Π °0			000234 07 15 05	210 40001	2007106
	000234 26 00 24	100π12121	1047120	superior conj	8883 May 07 15:05	21° 8 00'01	
superior conj	8882 May 26 09:34	10° Ⅱ 13'31		minimum elong	8883 May 07 19:14	21° 8 17'29	2°07'06
minimum elong	8882 May 26 15:34		1°47'06		8883 May 12 21:46	0° П	
evening rise	8882 Jun 05 21:52	29° Ⅱ 25'42		evening rise	8883 May 19 16:29	11° I I53'31	
	8882 Jun 06 05:15	0°95		asc. node	8883 May 26 20:45	24° Ⅱ 26'57	
asc. node	8882 Jun 08 23:43	5°907'24			8883 May 30 06:29	0.22	
evening max el	8882 Jun 22 00:38	25°506'49	18°15'16	evening max el	8883 Jun 05 12:52	8°510'42	18°05'03
retrograde	8882 Jun 29 04:13	28°542'45		retrograde	8883 Jun 12 02:02	11°S32'56	
evening set	8882 Jul 01 11:34	28° © 21'01		evening set	8883 Jun 14 16:55	11° © 00'13	
inferior conj	8882 Jul 08 16:42	23° © 38'36	1°22'37	inferior conj	8883 Jun 21 05:34	5° © 57'56	
minimum elong	8882 Jul 08 19:12	23° © 33'14	1°21'33	minimum elong	8883 Jun 21 08:30	5° © 50'39	
min. Earth dist.	8882 Jul 12 01:50	20°5945'30	0.59130 AU	min. Earth dist.	8883 Jun 24 08:05	2° © 54'16	0.61384 AU
desc. node	8882 Jul 13 11:36	19° 5 39'38		morning rise	8883 Jun 27 21:46	29° Ⅱ 57'23	
morning rise	8882 Jul 15 23:41	18° © 00'46			8883 Jun 27 20:14	30°Ŗ Ⅱ	
direct	8882 Jul 22 06:46	16° © 12'37		desc. node	8883 Jun 30 08:40	28° ∏ 34'54	
morning max el	8882 Aug 05 15:41		27°29'01	direct	8883 Jul 04 13:50	27° Ⅱ 40′29	
	8882 Aug 11 01:48	$0 {\circ} \Omega$			8883 Jul 11 19:50	0∘ ௐ	
	8882 Aug 30 07:14	o° mp		morning max el	8883 Jul 18 19:38	5° © 40'49	27°55'29
asc. node	8882 Sep 04 23:20	11° m 14'55			8883 Aug 06 02:05	$0 {\circ} \Omega$	
morning set	8882 Sep 05 22:42	13°Mp16'52		morning set	8883 Aug 21 01:32	27° Ω 31′10	
max. Earth dist.	8882 Sep 12 11:49	27° m/30'23	1.31599 AU		8883 Aug 22 06:15	0° m ⁄	
				asc. node	8883 Aug 22 20:15	1° Mp 13'20	
superior conj	8882 Sep 13 00:17	28° m 39'37	1°13'34	max. Earth dist.	8883 Aug 26 20:03	9° ™ 47'39	1.31877 AU
minimum elong		000 70 0 711 0	1012112				
minimum ciong	8882 Sep 12 22:03	28° m)27'12	1°13'13				
minimum ciong	8882 Sep 12 22:03 8882 Sep 13 14:46	28° III 27/12 0° ჲ	1°13'13	superior conj	8883 Aug 28 10:38	13° m 19'09	0°54'07
evening rise	•	-	1°13′13	superior conj minimum elong	8883 Aug 28 10:38 8883 Aug 28 08:33	13° m 19'09 13° m 07'43	0°54'07 0°53'39
_	8882 Sep 13 14:46	0∘ ⊽	1,13,13		Č	~	
_	8882 Sep 13 14:46 8882 Sep 19 18:20	0° ჲ 13° ჲ 28'50	1*13*13	minimum elong	8883 Aug 28 08:33	13° mp 07'43	
evening rise	8882 Sep 13 14:46 8882 Sep 19 18:20 8882 Sep 28 00:34	0° ⊆ 13° ⊆ 28'50 0°M 18°M24'16	26°14'42	minimum elong	8883 Aug 28 08:33 8883 Sep 04 05:10	13° m 07'43 28° m 09'27	
evening rise desc. node	8882 Sep 13 14:46 8882 Sep 19 18:20 8882 Sep 28 00:34 8882 Oct 09 10:12	0° ⊆ 13° ⊆ 28'50 0°M 18°M24'16		minimum elong	8883 Aug 28 08:33 8883 Sep 04 05:10 8883 Sep 05 01:53	13° m 07'43 28° m 09'27 0° <u>∩</u>	
evening rise desc. node	8882 Sep 13 14:46 8882 Sep 19 18:20 8882 Sep 28 00:34 8882 Oct 09 10:12 8882 Oct 18 13:23	0° <u>Ω</u> 13° <u>Ω</u> 28'50 0° M. 18° M.24'16 29° M.05'06		minimum elong evening rise	8883 Aug 28 08:33 8883 Sep 04 05:10 8883 Sep 05 01:53 8883 Sep 21 20:41	13° m 07'43 28° m 09'27 0° Ω 0° M.	0°53'39
evening rise desc. node evening max el	8882 Sep 13 14:46 8882 Sep 19 18:20 8882 Sep 28 00:34 8882 Oct 09 10:12 8882 Oct 18 13:23 8882 Oct 19 13:16	0° <u>Ω</u> 13° <u>Ω</u> 28'50 0° M 18° M24'16 29° M05'06 0° ✓		minimum elong evening rise desc. node	8883 Aug 28 08:33 8883 Sep 04 05:10 8883 Sep 05 01:53 8883 Sep 21 20:41 8883 Sep 26 07:19	13° m 07'43 28° m 09'27 0° Ω 0° M 5° M 42'41	0°53'39
evening rise desc. node evening max el retrograde	8882 Sep 13 14:46 8882 Sep 19 18:20 8882 Sep 28 00:34 8882 Oct 09 10:12 8882 Oct 18 13:23 8882 Oct 19 13:16 8882 Nov 01 11:22	0° Ω 13° Ω 28'50 0° M 18° M 24'16 29° M 05'06 0° 🖈 6° 🖈 09'37		minimum elong evening rise desc. node evening max el	8883 Aug 28 08:33 8883 Sep 04 05:10 8883 Sep 05 01:53 8883 Sep 21 20:41 8883 Sep 26 07:19 8883 Sep 30 04:32	13° m 07'43 28° m 09'27 0° <u>a</u> 0° m 5° m 42'41 9° m 50'53	0°53'39
evening rise desc. node evening max el retrograde evening set	8882 Sep 13 14:46 8882 Sep 19 18:20 8882 Sep 28 00:34 8882 Oct 09 10:12 8882 Oct 18 13:23 8882 Oct 19 13:16 8882 Nov 01 11:22 8882 Nov 07 23:56	0° Ω 13° Ω 28'50 0° M 18° M 24'16 29° M 05'06 0° ♂ 6° ♂ 09'37 4° ♂ 26'53	26°14'42	minimum elong evening rise desc. node evening max el retrograde	8883 Aug 28 08:33 8883 Sep 04 05:10 8883 Sep 05 01:53 8883 Sep 21 20:41 8883 Sep 26 07:19 8883 Sep 30 04:32 8883 Oct 14 00:34	13° m 07'43 28° m 09'27 0° Ω 0° M 5° M 42'41 9° M 50'53 16° M 48'45	0°53'39
evening rise desc. node evening max el retrograde evening set	8882 Sep 13 14:46 8882 Sep 19 18:20 8882 Sep 28 00:34 8882 Oct 09 10:12 8882 Oct 18 13:23 8882 Oct 19 13:16 8882 Nov 01 11:22 8882 Nov 07 23:56 8882 Nov 12 02:28	0° \(\oldsymbol{\Omega}\) 13° \(\oldsymbol{\Omega}\) 28'50 0° \(\oldsymbol{\Cappa}\) 18° \(\oldsymbol{\Omega}\) 24'16 29° \(\oldsymbol{\Omega}\) 05'06 0° \(\structure{\Cappa}\) 6° \(\structure{\Cappa}\) 26'53 1° \(\structure{\Cappa}\) 22'23	26°14'42 0.58844 AU	minimum elong evening rise desc. node evening max el retrograde evening set	8883 Aug 28 08:33 8883 Sep 04 05:10 8883 Sep 05 01:53 8883 Sep 21 20:41 8883 Sep 26 07:19 8883 Sep 30 04:32 8883 Oct 14 00:34 8883 Oct 19 12:52	13° m 07'43 28° m 09'27 0° <u>a</u> 0° m. 5° m.42'41 9° m.50'53 16° m.48'45 15° m.40'24	0°53'39 24°51'42 0.56900 AU
evening rise desc. node evening max el retrograde evening set min. Earth dist.	8882 Sep 13 14:46 8882 Sep 19 18:20 8882 Sep 28 00:34 8882 Oct 09 10:12 8882 Oct 18 13:23 8882 Oct 19 13:16 8882 Nov 01 11:22 8882 Nov 07 23:56 8882 Nov 12 02:28 8882 Nov 14 14:53	0° Ω 13° Ω 28'50 0° M. 18° M 24'16 29° M 05'06 0° ¾ 6° ¾ 09'37 4° ¾ 26'53 1° ¾ 52'23 30° RM.	26°14'42 0.58844 AU -4°44'47	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist.	8883 Aug 28 08:33 8883 Sep 04 05:10 8883 Sep 05 01:53 8883 Sep 21 20:41 8883 Sep 26 07:19 8883 Sep 30 04:32 8883 Oct 14 00:34 8883 Oct 19 12:52 8883 Oct 24 15:50	13° m 07'43 28° m 09'27 0° <u>a</u> 0° m. 5° m.42'41 9° m.50'53 16° m.48'45 15° m.40'24 12° m.56'15	0°53'39 24°51'42 0.56900 AU -5°29'12
evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	8882 Sep 13 14:46 8882 Sep 19 18:20 8882 Sep 28 00:34 8882 Oct 09 10:12 8882 Oct 18 13:23 8882 Oct 19 13:16 8882 Nov 01 11:22 8882 Nov 07 23:56 8882 Nov 12 02:28 8882 Nov 14 14:53 8882 Nov 15 06:31	0° Ω 13° Ω 28'50 0° M 18° M 24'16 29° M 05'06 0° 🗷 6° 🗷 09'37 4° 🗷 26'53 1° 🗷 52'23 30° R M 29° M 30'34	26°14'42 0.58844 AU -4°44'47	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	8883 Aug 28 08:33 8883 Sep 04 05:10 8883 Sep 05 01:53 8883 Sep 21 20:41 8883 Sep 26 07:19 8883 Sep 30 04:32 8883 Oct 14 00:34 8883 Oct 19 12:52 8883 Oct 24 15:50 8883 Oct 27 09:43	13° m 07'43 28° m 09'27 0° <u>a</u> 0° m. 5° m.42'41 9° m.50'53 16° m.48'45 15° m.40'24 12° m.56'15 11° m.09'15	0°53'39 24°51'42 0.56900 AU -5°29'12
evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	8882 Sep 13 14:46 8882 Sep 19 18:20 8882 Sep 28 00:34 8882 Oct 09 10:12 8882 Oct 18 13:23 8882 Oct 19 13:16 8882 Nov 01 11:22 8882 Nov 07 23:56 8882 Nov 12 02:28 8882 Nov 14 14:53 8882 Nov 15 06:31 8882 Nov 15 13:51	0° Ω 13° Ω 28'50 0° M 18° M 24'16 29° M 05'06 0° 🖈 6° 🗷 09'37 4° 🗷 26'53 1° 🗷 52'23 30° R M 29° M 30'34 29° M 16'50 25° M 00'42	26°14'42 0.58844 AU -4°44'47	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	8883 Aug 28 08:33 8883 Sep 04 05:10 8883 Sep 05 01:53 8883 Sep 21 20:41 8883 Sep 26 07:19 8883 Sep 30 04:32 8883 Oct 14 00:34 8883 Oct 19 12:52 8883 Oct 24 15:50 8883 Oct 27 09:43 8883 Oct 27 13:48 8883 Nov 04 17:00	13° m 07'43 28° m 09'27 0° <u>a</u> 0° m. 5° m.42'41 9° m.50'53 16° m.48'45 15° m.40'24 12° m.56'15 11° m.09'15 11° m.02'35	0°53'39 24°51'42 0.56900 AU -5°29'12
evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	8882 Sep 13 14:46 8882 Sep 19 18:20 8882 Sep 28 00:34 8882 Oct 09 10:12 8882 Oct 18 13:23 8882 Oct 19 13:16 8882 Nov 01 11:22 8882 Nov 07 23:56 8882 Nov 12 02:28 8882 Nov 14 14:53 8882 Nov 15 06:31 8882 Nov 15 13:51 8882 Nov 23 06:07 8882 Nov 25 11:52	0° Ω 13° Ω 28'50 0° M 18° M 24'16 29° M 05'06 0° 🖈 6° 🖈 09'37 4° 🖈 26'53 1° 🖈 52'23 30° R M 29° M 30'34 29° M 16'50	26°14'42 0.58844 AU -4°44'47	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	8883 Aug 28 08:33 8883 Sep 04 05:10 8883 Sep 05 01:53 8883 Sep 21 20:41 8883 Sep 26 07:19 8883 Sep 30 04:32 8883 Oct 14 00:34 8883 Oct 19 12:52 8883 Oct 24 15:50 8883 Oct 27 09:43 8883 Oct 27 13:48 8883 Nov 04 17:00 8883 Nov 07 04:53	13° m 07'43 28° m 09'27 0° <u>n</u> 0° m 5° m 42'41 9° m 50'53 16° m 48'45 15° m 40'24 12° m 56'15 11° m 09'15 11° m 02'35 7° m 02'07	0°53'39 24°51'42 0.56900 AU -5°29'12 5°28'40
evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	8882 Sep 13 14:46 8882 Sep 19 18:20 8882 Sep 28 00:34 8882 Oct 09 10:12 8882 Oct 18 13:23 8882 Oct 19 13:16 8882 Nov 01 11:22 8882 Nov 07 23:56 8882 Nov 12 02:28 8882 Nov 14 14:53 8882 Nov 15 06:31 8882 Nov 15 13:51 8882 Nov 23 06:07 8882 Nov 25 11:52 8882 Dec 01 23:04	0° Ω 13° Ω 28'50 0° M 18° M 24'16 29° M 05'06 0° ¾ 6° ¾ 09'37 4° ¾ 26'53 1° ¾ 52'23 30° R M 29° M 30'34 29° M 16'50 25° M 00'42 24° M 43'40 27° M 15'13	26°14'42 0.58844 AU -4°44'47 4°42'55	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	8883 Aug 28 08:33 8883 Sep 04 05:10 8883 Sep 05 01:53 8883 Sep 21 20:41 8883 Sep 26 07:19 8883 Sep 30 04:32 8883 Oct 14 00:34 8883 Oct 19 12:52 8883 Oct 24 15:50 8883 Oct 27 09:43 8883 Oct 27 13:48 8883 Nov 04 17:00 8883 Nov 07 04:53 8883 Nov 16 13:09	13° m 07'43 28° m 09'27 0° <u>n</u> 0° m. 5° m.42'41 9° m.50'53 16° m.48'45 15° m.40'24 12° m.56'15 11° m.09'15 11° m.02'35 7° m.02'07 6° m.44'36 11° m.11'08	0°53'39 24°51'42 0.56900 AU -5°29'12 5°28'40
evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	8882 Sep 13 14:46 8882 Sep 19 18:20 8882 Sep 28 00:34 8882 Oct 09 10:12 8882 Oct 18 13:23 8882 Oct 19 13:16 8882 Nov 01 11:22 8882 Nov 07 23:56 8882 Nov 12 02:28 8882 Nov 14 14:53 8882 Nov 15 06:31 8882 Nov 15 13:51 8882 Nov 23 06:07 8882 Nov 25 11:52 8882 Dec 01 23:04 8882 Dec 03 13:51	0° £ 13° £28'50 0° M 18° M.24'16 29° M.05'06 0° ₹ 6° ₹ 09'37 4° ₹ 26'53 1° ₹ 52'23 30° RM 29° M.30'34 29° M.16'50 25° M.00'42 24° M.43'40 27° M.15'13 28° M.40'12	26°14'42 0.58844 AU -4°44'47 4°42'55	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	8883 Aug 28 08:33 8883 Sep 04 05:10 8883 Sep 05 01:53 8883 Sep 21 20:41 8883 Sep 26 07:19 8883 Sep 30 04:32 8883 Oct 14 00:34 8883 Oct 19 12:52 8883 Oct 24 15:50 8883 Oct 27 09:43 8883 Oct 27 13:48 8883 Nov 04 17:00 8883 Nov 07 04:53 8883 Nov 16 13:09 8883 Nov 18 20:02	13° m 07'43 28° m 09'27 0° <u>n</u> 0° m. 5° m.42'41 9° m.50'53 16° m.48'45 15° m.40'24 12° m.56'15 11° m.09'15 11° m.02'35 7° m.02'07 6° m.44'36 11° m.11'08 13° m.37'14	0°53'39 24°51'42 0.56900 AU -5°29'12 5°28'40
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	8882 Sep 13 14:46 8882 Sep 19 18:20 8882 Sep 28 00:34 8882 Oct 09 10:12 8882 Oct 18 13:23 8882 Oct 19 13:16 8882 Nov 01 11:22 8882 Nov 07 23:56 8882 Nov 12 02:28 8882 Nov 14 14:53 8882 Nov 15 06:31 8882 Nov 15 13:51 8882 Nov 23 06:07 8882 Nov 25 11:52 8882 Dec 01 23:04 8882 Dec 03 13:51 8882 Dec 04 20:33	0° £ 13° £28'50 0° M 18° M.24'16 29° M.05'06 0° ₹ 6° ₹09'37 4° ₹26'53 1° ₹52'23 30° RM 29° M.30'34 29° M.16'50 25° M.00'42 24° M.43'40 27° M.15'13 28° M.40'12 0° ₹	26°14'42 0.58844 AU -4°44'47 4°42'55	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	8883 Aug 28 08:33 8883 Sep 04 05:10 8883 Sep 05 01:53 8883 Sep 21 20:41 8883 Sep 26 07:19 8883 Sep 30 04:32 8883 Oct 14 00:34 8883 Oct 19 12:52 8883 Oct 24 15:50 8883 Oct 27 09:43 8883 Oct 27 13:48 8883 Nov 04 17:00 8883 Nov 07 04:53 8883 Nov 16 13:09 8883 Nov 18 20:02 8883 Nov 29 04:27	13° m 07'43 28° m 09'27 0° n 0° m 5° m 42'41 9° m 50'53 16° m 48'45 15° m 40'24 12° m 56'15 11° m 09'15 11° m 02'35 7° m 02'07 6° m 44'36 11° m 11'08 13° m 37'14 0° 7	0°53'39 24°51'42 0.56900 AU -5°29'12 5°28'40
evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	8882 Sep 13 14:46 8882 Sep 19 18:20 8882 Sep 28 00:34 8882 Oct 09 10:12 8882 Oct 18 13:23 8882 Oct 19 13:16 8882 Nov 01 11:22 8882 Nov 07 23:56 8882 Nov 12 02:28 8882 Nov 14 14:53 8882 Nov 15 06:31 8882 Nov 15 13:51 8882 Nov 23 06:07 8882 Nov 25 11:52 8882 Dec 01 23:04 8882 Dec 03 13:51 8882 Dec 04 20:33 8882 Dec 19 12:56	0° £ 13° £28'50 0° M 18° M.24'16 29° M.05'06 0° ₹ 6° ₹09'37 4° ₹26'53 1° ₹52'23 30° RM 29° M.30'34 29° M.16'50 25° M.00'42 24° M.43'40 27° M.15'13 28° M.40'12 0° ₹ 24° ₹10'57	26°14'42 0.58844 AU -4°44'47 4°42'55	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	8883 Aug 28 08:33 8883 Sep 04 05:10 8883 Sep 05 01:53 8883 Sep 21 20:41 8883 Sep 26 07:19 8883 Sep 30 04:32 8883 Oct 14 00:34 8883 Oct 19 12:52 8883 Oct 24 15:50 8883 Oct 27 09:43 8883 Oct 27 13:48 8883 Nov 04 17:00 8883 Nov 07 04:53 8883 Nov 16 13:09 8883 Nov 18 20:02	13° m 07'43 28° m 09'27 0° <u>n</u> 0° m. 5° m.42'41 9° m.50'53 16° m.48'45 15° m.40'24 12° m.56'15 11° m.09'15 11° m.02'35 7° m.02'07 6° m.44'36 11° m.11'08 13° m.37'14	0°53'39 24°51'42 0.56900 AU -5°29'12 5°28'40
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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	8882 Sep 13 14:46 8882 Sep 19 18:20 8882 Sep 28 00:34 8882 Oct 09 10:12 8882 Oct 18 13:23 8882 Oct 19 13:16 8882 Nov 01 11:22 8882 Nov 07 23:56 8882 Nov 12 02:28 8882 Nov 14 14:53 8882 Nov 15 06:31 8882 Nov 15 06:31 8882 Nov 23 06:07 8882 Nov 25 11:52 8882 Dec 01 23:04 8882 Dec 03 13:51 8882 Dec 04 20:33 8882 Dec 19 12:56 8882 Dec 22 13:34	0° Ω 13° Ω 28'50 0° ጤ 18° ጤ 24'16 29° ጤ 05'06 0° ጾ' 6° ጾ' 09'37 4° ጾ' 26'53 1° ጾ' 52'23 30° Rጤ 29° ጤ 30'34 29° ጤ 16'50 25° ጤ 00'42 24° ጤ 43'40 27° ጤ 15'13 28° ጤ 40'12 0° ጾ' 24° ጾ' 10'57 0° ጜ	26°14'42 0.58844 AU -4°44'47 4°42'55	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 morning set	8883 Aug 28 08:33 8883 Sep 04 05:10 8883 Sep 05 01:53 8883 Sep 21 20:41 8883 Sep 26 07:19 8883 Sep 30 04:32 8883 Oct 14 00:34 8883 Oct 19 12:52 8883 Oct 24 15:50 8883 Oct 27 09:43 8883 Oct 27 13:48 8883 Nov 12 13:48 8883 Nov 04 17:00 8883 Nov 16 13:09 8883 Nov 18 20:02 8883 Nov 29 04:27 8883 Dec 03 14:10	13° m 07'43 28° m 09'27 0° <u>n</u> 0° m. 5° m.42'41 9° m.50'53 16° m.48'45 15° m.40'24 12° m.56'15 11° m.09'15 11° m.02'35 7° m.02'07 6° m.44'36 11° m.11'08 13° m.37'14 0° x 8° x 36'30	0°53'39 24°51'42 0.56900 AU -5°29'12 5°28'40 19°19'13
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	8882 Sep 13 14:46 8882 Sep 19 18:20 8882 Sep 28 00:34 8882 Oct 09 10:12 8882 Oct 18 13:23 8882 Oct 19 13:16 8882 Nov 01 11:22 8882 Nov 07 23:56 8882 Nov 12 02:28 8882 Nov 14 14:53 8882 Nov 15 06:31 8882 Nov 15 13:51 8882 Nov 23 06:07 8882 Nov 25 11:52 8882 Dec 01 23:04 8882 Dec 03 13:51 8882 Dec 04 20:33 8882 Dec 19 12:56	0° £ 13° £28'50 0° M 18° M.24'16 29° M.05'06 0° ₹ 6° ₹09'37 4° ₹26'53 1° ₹52'23 30° RM 29° M.30'34 29° M.16'50 25° M.00'42 24° M.43'40 27° M.15'13 28° M.40'12 0° ₹ 24° ₹10'57	26°14'42 0.58844 AU -4°44'47 4°42'55	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 morning set	8883 Aug 28 08:33 8883 Sep 04 05:10 8883 Sep 05 01:53 8883 Sep 21 20:41 8883 Sep 26 07:19 8883 Sep 30 04:32 8883 Oct 14 00:34 8883 Oct 19 12:52 8883 Oct 24 15:50 8883 Oct 27 09:43 8883 Oct 27 13:48 8883 Nov 12 13:48 8883 Nov 04 17:00 8883 Nov 16 13:09 8883 Nov 16 13:09 8883 Nov 18 20:02 8883 Nov 29 04:27 8883 Dec 03 14:10 8883 Dec 11 16:50 8883 Dec 11 19:48	13° m 07'43 28° m 09'27 0° <u>n</u> 0° m. 5° m.42'41 9° m.50'53 16° m.48'45 15° m.40'24 12° m.56'15 11° m.09'15 11° m.02'35 7° m.02'07 6° m.44'36 11° m.11'08 13° m.37'14 0° 🗷 8° 🗷 36'30	0°53'39 24°51'42 0.56900 AU -5°29'12 5°28'40 19°19'13
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	8882 Sep 13 14:46 8882 Sep 19 18:20 8882 Sep 28 00:34 8882 Oct 09 10:12 8882 Oct 18 13:23 8882 Oct 19 13:16 8882 Nov 19 11:22 8882 Nov 07 23:56 8882 Nov 12 02:28 8882 Nov 14 14:53 8882 Nov 15 06:31 8882 Nov 15 13:51 8882 Nov 23 06:07 8882 Nov 25 11:52 8882 Dec 01 23:04 8882 Dec 01 23:04 8882 Dec 04 20:33 8882 Dec 19 12:56 8882 Dec 22 13:34 8882 Dec 28 13:06 8882 Dec 28 16:24	0° £ 13° £28'50 0° M 18° M.24'16 29° M.05'06 0° ₹ 6° ₹09'37 4° ₹26'53 1° ₹52'23 30° RM 29° M.30'34 29° M.30'34 29° M.16'50 25° M.00'42 24° M.43'40 27° M.15'13 28° M.40'12 0° ₹ 24° ₹10'57 0° ♂	26°14'42 0.58844 AU -4°44'47 4°42'55 18°27'30 0°56'47 0°56'35	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 morning set superior conj minimum elong	8883 Aug 28 08:33 8883 Sep 04 05:10 8883 Sep 05 01:53 8883 Sep 21 20:41 8883 Sep 26 07:19 8883 Sep 30 04:32 8883 Oct 14 00:34 8883 Oct 19 12:52 8883 Oct 24 15:50 8883 Oct 27 09:43 8883 Oct 27 13:48 8883 Nov 04 17:00 8883 Nov 07 04:53 8883 Nov 16 13:09 8883 Nov 16 13:09 8883 Nov 18 20:02 8883 Nov 29 04:27 8883 Dec 11 16:50 8883 Dec 11 16:50 8883 Dec 11 19:48 8883 Dec 14 10:38	13° m 07'43 28° m 09'27 0° n 0° m 5° m 42'41 9° m 50'53 16° m 48'45 15° m 40'24 12° m 56'15 11° m 09'15 11° m 02'35 7° m 02'07 6° m 44'36 11° m 11'08 13° m 37'14 0° x 1 8° x 36'30 24° x 43'57 24° x 58'26 0° \(\rightarrow \)	0°53'39 24°51'42 0.56900 AU -5°29'12 5°28'40 19°19'13
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 max. Earth dist.	8882 Sep 13 14:46 8882 Sep 19 18:20 8882 Sep 28 00:34 8882 Oct 09 10:12 8882 Oct 18 13:23 8882 Oct 19 13:16 8882 Nov 19 13:16 8882 Nov 07 23:56 8882 Nov 12 02:28 8882 Nov 14 14:53 8882 Nov 15 06:31 8882 Nov 15 13:51 8882 Nov 23 06:07 8882 Nov 25 11:52 8882 Dec 01 23:04 8882 Dec 01 23:04 8882 Dec 03 13:51 8882 Dec 04 20:33 8882 Dec 19 12:56 8882 Dec 22 13:34 8882 Dec 28 16:24 8883 Jan 05 00:35	0° £ 13° £28'50 0° M 18° M.24'16 29° M.05'06 0° ₹ 6° ₹09'37 4° ₹26'53 1° ₹52'23 30° RM 29° M.30'34 29° M.16'50 25° M.00'42 24° M.43'40 27° M.15'13 28° M.40'12 0° ₹ 24° ₹10'57 0° ₹ 11° ₹317'30 11° ₹332'44 24° ₹39'28	26°14'42 0.58844 AU -4°44'47 4°42'55 18°27'30	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 morning set superior conj minimum elong morning set	8883 Aug 28 08:33 8883 Sep 04 05:10 8883 Sep 05 01:53 8883 Sep 21 20:41 8883 Sep 26 07:19 8883 Sep 30 04:32 8883 Oct 14 00:34 8883 Oct 19 12:52 8883 Oct 24 15:50 8883 Oct 27 09:43 8883 Oct 27 13:48 8883 Nov 04 17:00 8883 Nov 07 04:53 8883 Nov 16 13:09 8883 Nov 16 13:09 8883 Nov 18 20:02 8883 Nov 29 04:27 8883 Dec 11 16:50 8883 Dec 11 16:50 8883 Dec 11 19:48 8883 Dec 14 10:38 8883 Dec 18 06:19	13° m 07'43 28° m 09'27 0° n 0° m 5° m 42'41 9° m 50'53 16° m 48'45 15° m 40'24 12° m 56'15 11° m 09'15 11° m 02'35 7° m 02'07 6° m 44'36 11° m 11'08 13° m 37'14 0° x 8° x 36'30 24° x 43'57 24° x 58'26 0° \(\frac{3}{5}\)	0°53'39 24°51'42 0.56900 AU -5°29'12 5°28'40 19°19'13
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	8882 Sep 13 14:46 8882 Sep 19 18:20 8882 Sep 28 00:34 8882 Oct 09 10:12 8882 Oct 18 13:23 8882 Oct 19 13:16 8882 Nov 19 13:16 8882 Nov 07 23:56 8882 Nov 12 02:28 8882 Nov 14 14:53 8882 Nov 15 06:31 8882 Nov 15 13:51 8882 Nov 23 06:07 8882 Nov 25 11:52 8882 Dec 01 23:04 8882 Dec 01 23:04 8882 Dec 03 13:51 8882 Dec 04 20:33 8882 Dec 19 12:56 8882 Dec 22 13:34 8882 Dec 28 16:24 8883 Jan 05 00:35 8883 Jan 05 09:12	0° Ω 13° Ω 28'50 0° M 18° M 24'16 29° M 05'06 0° ¾ 6° ¾ 09'37 4° ¾ 26'53 1° ¾ 52'23 30° R M 29° M 30'34 29° M 16'50 25° M 00'42 24° M 43'40 27° M 15'13 28° M 40'12 0° ¾ 24° ¾ 10'57 0° ♂ 11° ♂ 32'44 24° ♂ 39'28 25° ♂ 16'35	26°14'42 0.58844 AU -4°44'47 4°42'55 18°27'30 0°56'47 0°56'35	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 morning set superior conj minimum elong max. Earth dist. evening rise	8883 Aug 28 08:33 8883 Sep 04 05:10 8883 Sep 05 01:53 8883 Sep 21 20:41 8883 Sep 26 07:19 8883 Sep 30 04:32 8883 Oct 14 00:34 8883 Oct 19 12:52 8883 Oct 24 15:50 8883 Oct 27 09:43 8883 Oct 27 13:48 8883 Nov 04 17:00 8883 Nov 07 04:53 8883 Nov 16 13:09 8883 Nov 16 13:09 8883 Nov 18 20:02 8883 Nov 29 04:27 8883 Dec 03 14:10 8883 Dec 11 16:50 8883 Dec 11 19:48 8883 Dec 14 10:38 8883 Dec 18 06:19 8883 Dec 22 00:05	13° m 07'43 28° m 09'27 0° n 0° m 5° m 42'41 9° m 50'53 16° m 48'45 15° m 40'24 12° m 56'15 11° m 02'35 7° m 02'07 6° m 44'36 11° m 11'08 13° m 37'14 0° x 8° x 36'30 24° x 43'57 24° x 58'26 0° \(\overline{3}\) 7° \(\overline{3}\)06'04 13° \(\overline{3}\)46'20	0°53'39 24°51'42 0.56900 AU -5°29'12 5°28'40 19°19'13
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 max. Earth dist. desc. node	8882 Sep 13 14:46 8882 Sep 19 18:20 8882 Sep 28 00:34 8882 Oct 09 10:12 8882 Oct 18 13:23 8882 Oct 19 13:16 8882 Nov 19 13:16 8882 Nov 07 23:56 8882 Nov 12 02:28 8882 Nov 14 14:53 8882 Nov 15 13:51 8882 Nov 15 13:51 8882 Nov 23 06:07 8882 Nov 25 11:52 8882 Dec 01 23:04 8882 Dec 01 23:04 8882 Dec 03 13:51 8882 Dec 04 20:33 8882 Dec 19 12:56 8882 Dec 22 13:34 8882 Dec 28 16:24 8883 Jan 05 00:35 8883 Jan 05 09:12 8883 Jan 08 03:58	0° £ 13° £28'50 0° M 18° M.24'16 29° M.05'06 0° ₹ 6° ₹09'37 4° ₹26'53 1° ₹52'23 30° RM 29° M.30'34 29° M.30'34 29° M.16'50 25° M.00'42 24° M.43'40 27° M.15'13 28° M.40'12 0° ₹ 24° ₹10'57 0° ♂ 11° ♂ 32'44 24° ♂ 39'28 25° ♂ 16'35 0° ≈	26°14'42 0.58844 AU -4°44'47 4°42'55 18°27'30 0°56'47 0°56'35	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 morning set superior conj minimum elong morning set	8883 Aug 28 08:33 8883 Sep 04 05:10 8883 Sep 05 01:53 8883 Sep 21 20:41 8883 Sep 26 07:19 8883 Sep 30 04:32 8883 Oct 14 00:34 8883 Oct 19 12:52 8883 Oct 24 15:50 8883 Oct 27 09:43 8883 Oct 27 13:48 8883 Nov 04 17:00 8883 Nov 07 04:53 8883 Nov 16 13:09 8883 Nov 16 13:09 8883 Nov 18 20:02 8883 Nov 29 04:27 8883 Dec 03 14:10 8883 Dec 11 16:50 8883 Dec 11 19:48 8883 Dec 14 10:38 8883 Dec 18 06:19 8883 Dec 22 00:05 8883 Dec 23 06:11	13° m 07'43 28° m 09'27 0° n 0° m 5° m 42'41 9° m 50'53 16° m 48'45 15° m 40'24 12° m 56'15 11° m 02'35 7° m 02'07 6° m 44'36 11° m 11'08 13° m 37'14 0° x 8° x 36'30 24° x 43'57 24° x 58'26 0° \to 7° \to 06'04 13° \to 46'20 15° \to 56'54	0°53'39 24°51'42 0.56900 AU -5°29'12 5°28'40 19°19'13
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 max. Earth dist.	8882 Sep 13 14:46 8882 Sep 19 18:20 8882 Sep 28 00:34 8882 Oct 09 10:12 8882 Oct 18 13:23 8882 Oct 19 13:16 8882 Nov 19 11:22 8882 Nov 07 23:56 8882 Nov 12 02:28 8882 Nov 14 14:53 8882 Nov 15 06:31 8882 Nov 15 13:51 8882 Nov 23 06:07 8882 Nov 23 06:07 8882 Nov 24 11:52 8882 Dec 01 23:04 8882 Dec 01 23:04 8882 Dec 04 20:33 8882 Dec 19 12:56 8882 Dec 22 13:34 8882 Dec 28 16:24 8883 Jan 05 00:35 8883 Jan 05 09:12 8883 Jan 08 03:58 8883 Jan 09 08:27	0° £ 13° £28'50 0° M 18° M.24'16 29° M.05'06 0° ₹ 6° ₹'09'37 4° ₹'26'53 1° ₹'52'23 30° RM 29° M.30'34 29° M.30'34 29° M.16'50 25° M.00'42 24° M.43'40 27° M.15'13 28° M.40'12 0° ₹ 24° ₹'10'57 0° ♂ 11° ♂ 32'44 24° ♂ 39'28 25° ♂ 16'35 0° ≈ 1° ≈ 58'41	26°14'42 0.58844 AU -4°44'47 4°42'55 18°27'30 0°56'47 0°56'35	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 morning set superior conj minimum elong max. Earth dist. evening rise	8883 Aug 28 08:33 8883 Sep 04 05:10 8883 Sep 05 01:53 8883 Sep 21 20:41 8883 Sep 26 07:19 8883 Sep 30 04:32 8883 Oct 14 00:34 8883 Oct 19 12:52 8883 Oct 24 15:50 8883 Oct 27 09:43 8883 Oct 27 13:48 8883 Nov 04 17:00 8883 Nov 07 04:53 8883 Nov 16 13:09 8883 Nov 16 13:09 8883 Nov 18 20:02 8883 Nov 18 20:02 8883 Nov 29 04:27 8883 Dec 03 14:10 8883 Dec 11 16:50 8883 Dec 11 19:48 8883 Dec 14 10:38 8883 Dec 18 06:19 8883 Dec 22 00:05 8883 Dec 23 06:11 8883 Dec 31 19:14	13° m 07'43 28° m 09'27 0° n 0° m 5° m 42'41 9° m 50'53 16° m 48'45 15° m 40'24 12° m 56'15 11° m 02'35 7° m 02'07 6° m 44'36 11° m 11'08 13° m 37'14 0° 8° 336'30 24° 43'57 24° 58'26 0° 7° 506'04 13° 546'20 15° 56'54 0° ≈	0°53'39 24°51'42 0.56900 AU -5°29'12 5°28'40 19°19'13
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 max. Earth dist. desc. node evening rise	8882 Sep 13 14:46 8882 Sep 19 18:20 8882 Sep 28 00:34 8882 Oct 09 10:12 8882 Oct 18 13:23 8882 Oct 19 13:16 8882 Nov 01 11:22 8882 Nov 07 23:56 8882 Nov 12 02:28 8882 Nov 14 14:53 8882 Nov 15 06:31 8882 Nov 15 13:51 8882 Nov 23 06:07 8882 Nov 25 11:52 8882 Dec 01 23:04 8882 Dec 01 23:04 8882 Dec 04 20:33 8882 Dec 19 12:56 8882 Dec 22 13:34 8882 Dec 28 16:24 8883 Jan 05 00:35 8883 Jan 05 09:12 8883 Jan 08 03:58 8883 Jan 09 08:27 8883 Jan 09 08:27 8883 Jan 09 08:27	0° £ 13° £28'50 0° M 18° M.24'16 29° M.05'06 0° ♂ 6° ♂09'37 4° ♂26'53 1° ♂52'23 30° RM 29° M.30'34 29° M.16'50 25° M.00'42 24° M.43'40 27° M.15'13 28° M.40'12 0° ♂ 24° ♂ 10'57 0° ♂ 11° ♂ 32'44 24° ♂ 39'28 25° ♂ 16'35 0° ≈ 1° ≈ 58'41 0° ℃	26°14'42 0.58844 AU -4°44'47 4°42'55 18°27'30 0°56'47 0°56'35 1.40436 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 morning set superior conj minimum elong max. Earth dist. evening rise desc. node	8883 Aug 28 08:33 8883 Sep 04 05:10 8883 Sep 05 01:53 8883 Sep 21 20:41 8883 Sep 26 07:19 8883 Sep 30 04:32 8883 Oct 14 00:34 8883 Oct 19 12:52 8883 Oct 24 15:50 8883 Oct 27 09:43 8883 Oct 27 13:48 8883 Nov 04 17:00 8883 Nov 04 17:00 8883 Nov 16 13:09 8883 Nov 16 13:09 8883 Nov 18 20:02 8883 Nov 29 04:27 8883 Dec 03 14:10 8883 Dec 11 16:50 8883 Dec 11 19:48 8883 Dec 14 10:38 8883 Dec 14 10:38 8883 Dec 22 00:05 8883 Dec 23 06:11 8883 Dec 31 19:14 8884 Jan 22 14:22	13° m 07'43 28° m 09'27 0° n 0° m 5° m 42'41 9° m 50'53 16° m 48'45 15° m 40'24 12° m 56'15 11° m 09'15 11° m 02'35 7° m 02'07 6° m 44'36 11° m 11'08 13° m 37'14 0° x 8° x 36'30 24° x 43'57 24° x 58'26 0° 5 7° 506'04 13° 546'20 15° 556'54 0° ≈ 0° H	0°53'39 24°51'42 0.56900 AU -5°29'12 5°28'40 19°19'13 1°19'24 1°19'18 1.38249 AU
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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 max. Earth dist. desc. node evening rise evening rise evening max el retrograde	8882 Sep 13 14:46 8882 Sep 19 18:20 8882 Sep 28 00:34 8882 Oct 09 10:12 8882 Oct 18 13:23 8882 Oct 19 13:16 8882 Nov 01 11:22 8882 Nov 07 23:56 8882 Nov 12 02:28 8882 Nov 15 06:31 8882 Nov 15 06:31 8882 Nov 15 13:51 8882 Nov 23 06:07 8882 Nov 25 11:52 8882 Dec 01 23:04 8882 Dec 01 23:04 8882 Dec 02 13:34 8882 Dec 22 13:34 8882 Dec 28 16:24 8883 Jan 05 00:35 8883 Jan 05 00:35 8883 Jan 05 09:12 8883 Jan 09 08:27 8883 Jan 09 08:27 8883 Jan 07 15:26 8883 Feb 12 22:13 8883 Feb 12 22:13	0° £ 13° £28'50 0° M 18° M.24'16 29° M.05'06 0° ₹ 6° ₹09'37 4° ₹26'53 1° ₹52'23 30° RM 29° M.30'34 29° M.16'50 25° M.00'42 24° M.43'40 27° M.15'13 28° M.40'12 0° ₹ 24° ₹10'57 0° ₹ 11° ₹32'44 24° ₹39'28 25° ₹316'35 0° € 1° €58'41 0° € 20° € 20'11 26° ₹41'35	26°14'42 0.58844 AU -4°44'47 4°42'55 18°27'30 0°56'47 0°56'35 1.40436 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 morning set superior conj minimum elong max. Earth dist. evening rise desc. node	8883 Aug 28 08:33 8883 Sep 04 05:10 8883 Sep 05 01:53 8883 Sep 21 20:41 8883 Sep 26 07:19 8883 Sep 30 04:32 8883 Oct 14 00:34 8883 Oct 19 12:52 8883 Oct 24 15:50 8883 Oct 27 09:43 8883 Oct 27 13:48 8883 Nov 04 17:00 8883 Nov 04 17:00 8883 Nov 16 13:09 8883 Nov 18 20:02 8883 Nov 18 20:02 8883 Nov 29 04:27 8883 Dec 03 14:10 8883 Dec 11 16:50 8883 Dec 11 19:48 8883 Dec 14 10:38 8883 Dec 14 10:38 8883 Dec 18 06:19 8883 Dec 22 00:05 8883 Dec 23 06:11 8883 Dec 31 19:14 8884 Jan 22 14:22 8884 Feb 07 07:07	13° m 07'43 28° m 09'27 0° n 0° m 5° m 42'41 9° m 50'53 16° m 48'45 15° m 40'24 12° m 56'15 11° m 02'35 7° m 02'07 6° m 44'36 11° m 11'08 13° m 37'14 0° x 8° x 36'30 24° x 43'57 24° x 58'26 0° 3 7° 306'04 13° 36'46'20 15° 35'6'54 0° ≈ 0° H 4° H 07'24 10° H 59'56	0°53'39 24°51'42 0.56900 AU -5°29'12 5°28'40 19°19'13 1°19'24 1°19'18 1.38249 AU
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 max. Earth dist. desc. node evening rise evening max el	8882 Sep 13 14:46 8882 Sep 19 18:20 8882 Sep 28 00:34 8882 Oct 09 10:12 8882 Oct 18 13:23 8882 Oct 19 13:16 8882 Nov 19 11:22 8882 Nov 07 23:56 8882 Nov 12 02:28 8882 Nov 14 14:53 8882 Nov 15 06:31 8882 Nov 15 13:51 8882 Nov 23 06:07 8882 Nov 25 11:52 8882 Dec 01 23:04 8882 Dec 03 13:51 8882 Dec 04 20:33 8882 Dec 19 12:56 8882 Dec 22 13:34 8882 Dec 28 16:24 8883 Jan 05 09:12 8883 Jan 05 09:12 8883 Jan 09 08:27 8883 Jan 09 08:27 8883 Jan 09 08:27 8883 Jan 27 15:26 8883 Feb 12 22:13	0°丘 13°丘28'50 0°爪 18°爪24'16 29°爪05'06 0°ズ 6°ズ09'37 4°ズ26'53 1°ズ52'23 30°Rጤ 29°爪30'34 29°爪16'50 25°爪00'42 24°爪43'40 27°爪15'13 28°爪40'12 0°ズ 24°ズ10'57 0°उ 11°♂32'44 24°♂39'28 25°♂16'35 0°≈ 1°≈58'41 0°ዢ 20°┼20'11	26°14'42 0.58844 AU -4°44'47 4°42'55 18°27'30 0°56'47 0°56'35 1.40436 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 morning set superior conj minimum elong max. Earth dist. evening rise desc. node	8883 Aug 28 08:33 8883 Sep 04 05:10 8883 Sep 05 01:53 8883 Sep 21 20:41 8883 Sep 26 07:19 8883 Sep 30 04:32 8883 Oct 14 00:34 8883 Oct 19 12:52 8883 Oct 24 15:50 8883 Oct 27 09:43 8883 Oct 27 13:48 8883 Nov 04 17:00 8883 Nov 04 17:00 8883 Nov 16 13:09 8883 Nov 18 20:02 8883 Nov 18 20:02 8883 Nov 29 04:27 8883 Dec 03 14:10 8883 Dec 11 16:50 8883 Dec 11 19:48 8883 Dec 14 10:38 8883 Dec 14 10:38 8883 Dec 22 00:05 8883 Dec 23 06:11 8883 Dec 31 19:14 8884 Jan 22 14:22 8884 Jan 26 11:26	13° m 07'43 28° m 09'27 0° n 0° m 5° m 42'41 9° m 50'53 16° m 48'45 15° m 40'24 12° m 56'15 11° m 09'15 11° m 02'35 7° m 02'07 6° m 44'36 11° m 11'08 13° m 37'14 0° x 8° x 36'30 24° x 43'57 24° x 58'26 0° 5 7° 506'04 13° 546'20 15° 556'54 0° ≈ 0° H 4° H 07'24	0°53'39 24°51'42 0.56900 AU -5°29'12 5°28'40 19°19'13 1°19'24 1°19'18 1.38249 AU

min. Earth dist.	8884 Feb 17 10:52	3°₩35'54	0.67821 AU	asc. node	8885 Jan 31 16:13	17° ≈ 23'38	
inferior conj	8884 Feb 18 13:02	2° ₩ 09'47	1°12'05	inferior conj	8885 Feb 01 15:38	16°≈10'42	0°19'22
minimum elong	8884 Feb 18 11:25		1°11'36	minimum elong	8885 Feb 01 15:08	16°≈12'16	0°19'20
g	8884 Feb 20 05:21	30°R≈	1 1100	morning rise	8885 Feb 07 10:25	10°≈22'49	0 19 20
morning rise	8884 Feb 24 00:16	26°≈12'46		direct	8885 Feb 10 14:20	9°≈25'50	
direct	8884 Feb 27 15:26	24°≈57'00		morning max el	8885 Feb 17 07:06	13°≈04'08	18°44'29
morning max el	8884 Mar 05 22:01	28°≈59'51	19°36'42	. <i>&</i>	8885 Mar 01 20:03	0°) €	
	8884 Mar 06 21:26	0°) €		desc. node	8885 Mar 07 02:53	8°) €11'37	
greatest brilliancy	8884 Mar 18 15:02	15°) 35′09	-0.7m	morning set	8885 Mar 10 21:13	14°) €05'01	
desc. node	8884 Mar 20 06:00	17°) 59′23		C	8885 Mar 21 01:18	$_{0}$ $^{\circ}$ Υ	
	8884 Mar 28 04:31	0° Υ		max. Earth dist.	8885 Mar 26 02:33	7° Ƴ 54'21	1.45436 AU
morning set	8884 Mar 31 09:36	4° Ƴ 55'56					
max. Earth dist.	8884 Apr 12 09:27	23° Y 38'29	1.44641 AU	superior conj	8885 Mar 27 05:41	9° Y 40'40	-1°56'28
	8884 Apr 16 09:13	0°8		minimum elong	8885 Mar 26 21:22	9° Ƴ 08'03	1°55'55
	•			•	8885 Apr 09 01:51	0° ႘	
superior conj	8884 Apr 16 19:59	0° 8 43'14	-2°11'41	evening rise	8885 Apr 11 14:13	4° 8 02'02	
minimum elong	8884 Apr 16 18:14	0° 8 36'10	2°11'47	greatest brilliancy	8885 Apr 18 14:52	15° 8 19'18	-0.9m
evening rise	8884 Apr 30 15:06	23° 8 27'29			8885 Apr 28 07:53	$\Pi^{\circ}0$	
	8884 May 04 12:18	$\Pi^{\circ}0$		asc. node	8885 Apr 29 14:54	1° Ⅱ 41′22	
asc. node	8884 May 12 17:49	13° Ⅱ 21'10		evening max el	8885 May 02 14:08	5° Ⅱ 05'03	18°40'31
evening max el	8884 May 19 02:18	21° Ⅲ 32'33	18°13'43	retrograde	8885 May 09 04:10	8° Ⅱ 41'42	
retrograde	8884 May 25 11:25	24° Ⅱ 55′26		evening set	8885 May 12 10:01	7° Ⅱ 41'47	
evening set	8884 May 28 09:41	24° Ⅱ 09'48		inferior conj	8885 May 18 01:33	2° Ⅱ 04'43	3°19'07
inferior conj	8884 Jun 03 09:52	18° Ⅱ 49'21	3°01'38	minimum elong	8885 May 18 02:21	2° Ⅲ 02'17	3°18'52
minimum elong	8884 Jun 03 11:56	18° Ⅱ 43'33	3°01'04		8885 May 19 18:17	30° ₹ 8	
min. Earth dist.	8884 Jun 05 23:40	15° Ⅱ 57'32	0.63532 AU	min. Earth dist.	8885 May 20 00:17	29° 8 41'58	0.65381 AU
morning rise	8884 Jun 09 12:47	12° Ⅱ 36′20		morning rise	8885 May 23 17:56	25° 8 46'40	
direct	8884 Jun 16 06:33	9° Ⅱ 58'55		direct	8885 May 30 06:57	23° 8 00'35	
desc. node	8884 Jun 16 05:43	9° Ⅱ 58'55		desc. node	8885 Jun 03 02:43	23° 8 48'45	
morning max el	8884 Jun 30 04:11	18° Ⅱ 01'43	27°44'00		8885 Jun 11 17:12	$\Pi^{\circ}0$	
	8884 Jul 10 04:51	0 \circ \odot		morning max el	8885 Jun 12 14:31	0° Ⅱ 52'55	26°59'25
	8884 Jul 28 23:00	$0^{\circ}\Omega$			8885 Jul 04 06:10	0 \circ \odot	
morning set	8884 Aug 03 21:19	11° Ω 22'24		morning set	8885 Jul 18 07:08	24°5942'25	
asc. node	8884 Aug 08 17:11	21° Ω 17'42			8885 Jul 21 00:11	$0^{\circ}\Omega$	
max. Earth dist.	8884 Aug 08 22:22	21° Ω 45′06	1.32633 AU	max. Earth dist.	8885 Jul 22 15:20	3° Ω 15′57	1.33880 AU
	_						
superior conj	8884 Aug 11 17:44	27° Ω 45'10	0°30'08	superior conj	8885 Jul 26 19:26	11° Ω 51'36	0°02'14
	8884 Aug 11 17:44 8884 Aug 11 16:21	27° Ω 45'10 27° Ω 37'42		superior conj minimum elong	8885 Jul 26 19:26 8885 Jul 26 19:19	11° \O 51'36 11° \O 51'02	
superior conj minimum elong	8884 Aug 11 17:44 8884 Aug 11 16:21 8884 Aug 12 18:39	27° Q 45'10 27° Q 37'42 0° M	0°30'08	superior conj minimum elong behind sun begin	8885 Jul 26 19:26 8885 Jul 26 19:19 8885 Jul 26 13:42	11° Ω 51'36 11° Ω 51'02 11° Ω 21'34	0°02'14
superior conj	8884 Aug 11 17:44 8884 Aug 11 16:21 8884 Aug 12 18:39 8884 Aug 18 16:45	27° A 45'10 27° A 37'42 0° m 12° m 49'08	0°30'08	superior conj minimum elong behind sun begin behind sun end	8885 Jul 26 19:26 8885 Jul 26 19:19 8885 Jul 26 13:42 8885 Jul 27 00:57	11°\$\Omega\)51'36 11°\$\Omega\)51'02 11°\$\Omega\)21'34 12°\$\Omega\)20'34	0°02'14
superior conj minimum elong evening rise	8884 Aug 11 17:44 8884 Aug 11 16:21 8884 Aug 12 18:39 8884 Aug 18 16:45 8884 Aug 27 07:51	27° N 45′10 27° N 37′42 0° M 12° M 49′08 0° Ω	0°30'08 0°29'43	superior conj minimum elong behind sun begin behind sun end asc. node	8885 Jul 26 19:26 8885 Jul 26 19:19 8885 Jul 26 13:42 8885 Jul 27 00:57 8885 Jul 26 14:08	11°N51'36 11°N51'02 11°N21'34 12°N20'34 11°N23'54	0°02'14
superior conj minimum elong evening rise evening max el	8884 Aug 11 17:44 8884 Aug 11 16:21 8884 Aug 12 18:39 8884 Aug 18 16:45 8884 Aug 27 07:51 8884 Sep 10 15:36	27° € 45'10 27° € 33'42 0° № 12° № 49'08 0° Ω 20° Ω 05'21	0°30'08 0°29'43	superior conj minimum elong behind sun begin behind sun end	8885 Jul 26 19:26 8885 Jul 26 19:19 8885 Jul 26 13:42 8885 Jul 27 00:57 8885 Jul 26 14:08 8885 Aug 03 03:13	11°N51'36 11°N51'02 11°N21'34 12°N20'34 11°N23'54 27°N22'22	0°02'14
superior conj minimum elong evening rise evening max el desc. node	8884 Aug 11 17:44 8884 Aug 11 16:21 8884 Aug 12 18:39 8884 Aug 18 16:45 8884 Aug 27 07:51 8884 Sep 10 15:36 8884 Sep 12 04:27	27° N 45'10 27° N 37'42 0° M 12° M 49'08 0° Ω 20° Ω 05'21 21° Ω 30'09	0°30'08 0°29'43	superior conj minimum elong behind sun begin behind sun end asc. node	8885 Jul 26 19:26 8885 Jul 26 19:19 8885 Jul 26 13:42 8885 Jul 27 00:57 8885 Jul 26 14:08 8885 Aug 03 03:13 8885 Aug 04 09:24	11°N51'36 11°N51'02 11°N21'34 12°N20'34 11°N23'54 27°N22'22 0°M	0°02'14
superior conj minimum elong evening rise evening max el desc. node retrograde	8884 Aug 11 17:44 8884 Aug 11 16:21 8884 Aug 12 18:39 8884 Aug 18 16:45 8884 Aug 27 07:51 8884 Sep 10 15:36 8884 Sep 12 04:27 8884 Sep 24 01:35	27° \$\mathcal{Q}45'10 27° \$\mathcal{Q}37'42 0° \$\mathcal{W}\$ 12° \$\mathcal{W}\$49'08 0° \$\mathcal{Q}\$ 20° \$\mathcal{Q}05'21 21° \$\mathcal{Q}30'09 26° \$\mathcal{Q}47'29	0°30'08 0°29'43	superior conj minimum elong behind sun begin behind sun end asc. node evening rise	8885 Jul 26 19:26 8885 Jul 26 19:19 8885 Jul 26 13:42 8885 Jul 27 00:57 8885 Jul 26 14:08 8885 Aug 03 03:13 8885 Aug 04 09:24 8885 Aug 22 21:52	11°N51'36 11°N51'02 11°N21'34 12°N20'34 11°N23'54 27°N22'22 0°M 0°Ω	0°02'14 0°02'01
superior conj minimum elong evening rise evening max el desc. node retrograde evening set	8884 Aug 11 17:44 8884 Aug 11 16:21 8884 Aug 12 18:39 8884 Aug 18 16:45 8884 Aug 27 07:51 8884 Sep 10 15:36 8884 Sep 12 04:27 8884 Sep 24 01:35 8884 Sep 28 02:40	27° \$\alpha 45'10 27° \$\alpha 37'42 0° \$\mathbf{m}\$ 12° \$\mathbf{m}\$ 49'08 0° \$\alpha\$ 20° \$\alpha 05'21 21° \$\alpha 30'09 26° \$\alpha 47'29 26° \$\alpha 11'44	0°30'08 0°29'43 23°13'28	superior conj minimum elong behind sun begin behind sun end asc. node evening rise	8885 Jul 26 19:26 8885 Jul 26 19:19 8885 Jul 26 13:42 8885 Jul 27 00:57 8885 Jul 26 14:08 8885 Aug 03 03:13 8885 Aug 04 09:24 8885 Aug 22 21:52 8885 Aug 23 07:17	11° \$\Omega 51'36 11° \$\Omega 51'02 11° \$\Omega 21'34 12° \$\Omega 20'34 11° \$\Omega 22'22 0° \$\Omega\$ 0° \$\Omega\$ 0° \$\Omega 23'32	0°02'14 0°02'01
superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist.	8884 Aug 11 17:44 8884 Aug 11 16:21 8884 Aug 12 18:39 8884 Aug 18 16:45 8884 Aug 27 07:51 8884 Sep 10 15:36 8884 Sep 12 04:27 8884 Sep 24 01:35 8884 Sep 28 02:40 8884 Oct 05 00:58	27° \$\alpha 45' 10 27° \$\alpha 37' 42 0° \$\mathbf{m}\$ 12° \$\mathbf{m}\$ 49' 08 0° \$\alpha\$ 20° \$\alpha 05' 21 21° \$\alpha 30' 09 26° \$\alpha 47' 29 26° \$\alpha 11' 44 22° \$\alpha 59' 32	0°30'08 0°29'43 23°13'28 0.55417 AU	superior conj minimum elong behind sun begin behind sun end asc. node evening rise	8885 Jul 26 19:26 8885 Jul 26 19:19 8885 Jul 26 13:42 8885 Jul 27 00:57 8885 Jul 26 14:08 8885 Aug 03 03:13 8885 Aug 04 09:24 8885 Aug 22 21:52 8885 Aug 23 07:17 8885 Aug 30 01:34	11° \$\Omega 51'36 11° \$\Omega 51'02 11° \$\Omega 21'34 12° \$\Omega 20'34 11° \$\Omega 22'22 0° \$\Omega 0° \$\Omega 23'32 5° \$\Omega 16'04	0°02'14 0°02'01
superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj	8884 Aug 11 17:44 8884 Aug 11 16:21 8884 Aug 12 18:39 8884 Aug 18 16:45 8884 Aug 27 07:51 8884 Sep 10 15:36 8884 Sep 12 04:27 8884 Sep 24 01:35 8884 Sep 28 02:40 8884 Oct 05 00:58 8884 Oct 06 17:17	27° \$\alpha 45' 10 27° \$\alpha 37' 42 0° \$\mathbf{m}\) 12° \$\mathbf{m} 49' 08 0° \$\alpha\$ 20° \$\alpha 05' 21 21° \$\alpha 30' 09 26° \$\alpha 47' 29 26° \$\alpha 11' 44 22° \$\alpha 59' 32 22° \$\alpha 00' 43	0°30'08 0°29'43 23°13'28 0.55417 AU -5°33'51	superior conj minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde	8885 Jul 26 19:26 8885 Jul 26 19:19 8885 Jul 26 13:42 8885 Jul 27 00:57 8885 Jul 26 14:08 8885 Aug 03 03:13 8885 Aug 04 09:24 8885 Aug 22 21:52 8885 Aug 23 07:17 8885 Aug 30 01:34 8885 Sep 04 15:49	11° \$\Omega 51'36 11° \$\Omega 51'02 11° \$\Omega 21'34 12° \$\Omega 20'34 11° \$\Omega 23'54 27° \$\Omega 22'22 0° \$\mathre{m}\$ 0° \$\Omega 23'32 5° \$\Omega 16'04 6° \$\Omega 31'20	0°02'14 0°02'01
superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong	8884 Aug 11 17:44 8884 Aug 11 16:21 8884 Aug 12 18:39 8884 Aug 18 16:45 8884 Aug 27 07:51 8884 Sep 10 15:36 8884 Sep 12 04:27 8884 Sep 24 01:35 8884 Sep 28 02:40 8884 Oct 05 00:58 8884 Oct 06 17:17 8884 Oct 06 14:06	27° \$\alpha 45'10 27° \$\alpha 37'42 0° \$\mathbf{m}\$ 12° \$\mathbf{m}\$ 49'08 0° \$\mathbf{n}\$ 20° \$\mathbf{n}\$ 05'21 21° \$\mathbf{n}\$ 30'09 26° \$\mathbf{n}\$ 47'29 26° \$\mathbf{n}\$ 11'44 22° \$\mathbf{n}\$ 59'32 22° \$\mathbf{n}\$ 00'43 22° \$\mathbf{n}\$ 05'24	0°30'08 0°29'43 23°13'28 0.55417 AU -5°33'51	superior conj minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set	8885 Jul 26 19:26 8885 Jul 26 19:19 8885 Jul 26 13:42 8885 Jul 27 00:57 8885 Jul 26 14:08 8885 Aug 03 03:13 8885 Aug 04 09:24 8885 Aug 22 21:52 8885 Aug 23 07:17 8885 Aug 30 01:34 8885 Sep 04 15:49 8885 Sep 07 07:49	11° \$\alpha 51'36 11° \$\alpha 51'02 11° \$\alpha 21'34 12° \$\alpha 20'34 11° \$\alpha 23'54 27° \$\alpha 22'22 0° \$\mathred{m}\$ 0° \$\alpha 23'32 5° \$\alpha 16'04 6° \$\alpha 31'20 6° \$\alpha 15'13	0°02'14 0°02'01 21°36'46
superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	8884 Aug 11 17:44 8884 Aug 11 16:21 8884 Aug 12 18:39 8884 Aug 18 16:45 8884 Aug 27 07:51 8884 Sep 10 15:36 8884 Sep 12 04:27 8884 Sep 24 01:35 8884 Sep 28 02:40 8884 Oct 05 00:58 8884 Oct 06 17:17 8884 Oct 06 14:06 8884 Oct 15 03:33	27° \$\alpha 45'10 27° \$\alpha 37'42 0° m 12° m 49'08 0° \dolse 20° \dolse 05'21 21° \dolse 30'09 26° \dolse 47'29 26° \dolse 11'44 22° \dolse 59'32 22° \dolse 00'43 22° \dolse 005'24 18° \dolse 09'45	0°30'08 0°29'43 23°13'28 0.55417 AU -5°33'51	superior conj minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set inferior conj	8885 Jul 26 19:26 8885 Jul 26 19:19 8885 Jul 26 13:42 8885 Jul 27 00:57 8885 Jul 26 14:08 8885 Aug 03 03:13 8885 Aug 04 09:24 8885 Aug 22 21:52 8885 Aug 23 07:17 8885 Aug 30 01:34 8885 Sep 04 15:49 8885 Sep 07 07:49 8885 Sep 16 11:43	11° \$\alpha 51'36 11° \$\alpha 51'02 11° \$\alpha 21'34 12° \$\alpha 20'34 11° \$\alpha 23'54 27° \$\alpha 22'22 0° \$\mathred{m}\$ 0° \$\mathred{\Omega} 23'32 5° \$\mathred{\Omega} 16'04 6° \$\mathred{\Omega} 31'20 6° \$\mathred{\Omega} 15'13 2° \$\mathred{\Omega} 17'16	0°02'14 0°02'01 21°36'46 -4°43'36
superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	8884 Aug 11 17:44 8884 Aug 11 16:21 8884 Aug 12 18:39 8884 Aug 18 16:45 8884 Aug 27 07:51 8884 Sep 10 15:36 8884 Sep 12 04:27 8884 Sep 24 01:35 8884 Sep 28 02:40 8884 Oct 05 00:58 8884 Oct 06 17:17 8884 Oct 06 14:06 8884 Oct 15 03:33 8884 Oct 18 02:47	27° \$\alpha 45' 10 27° \$\alpha 37' 42 0° m 12° m 49' 08 0° \oldsymbol{\Omega} 20° \oldsymbol{\Omega} 05' 21 21° \oldsymbol{\Omega} 30' 09 26° \oldsymbol{\Omega} 47' 29 26° \oldsymbol{\Omega} 11' 44 22° \oldsymbol{\Omega} 59' 32 22° \oldsymbol{\Omega} 00' 43 22° \oldsymbol{\Omega} 00' 24 18° \oldsymbol{\Omega} 09' 45 17° \oldsymbol{\Omega} 48' 41	0°30'08 0°29'43 23°13'28 0.55417 AU -5°33'51 5°33'33	superior conj minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong	8885 Jul 26 19:26 8885 Jul 26 19:19 8885 Jul 26 13:42 8885 Jul 27 00:57 8885 Jul 26 14:08 8885 Aug 03 03:13 8885 Aug 04 09:24 8885 Aug 22 21:52 8885 Aug 23 07:17 8885 Aug 30 01:34 8885 Sep 04 15:49 8885 Sep 07 07:49 8885 Sep 16 11:43 8885 Sep 16 02:32	11° \$\alpha 51'36 11° \$\alpha 51'02 11° \$\alpha 21'34 12° \$\alpha 20'34 11° \$\alpha 23'54 27° \$\alpha 22'22 0° \$\mathred{m}\$ 0° \$\mathred{\Omega} 23'32 5° \$\mathred{\Omega} 16'04 6° \$\mathred{\Omega} 31'20 6° \$\mathred{\Omega} 15'13 2° \$\mathred{\Omega} 17'16 2° \$\mathred{\Omega} 30'06	0°02'14 0°02'01 21°36'46 -4°43'36 4°41'31
superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	8884 Aug 11 17:44 8884 Aug 11 16:21 8884 Aug 12 18:39 8884 Aug 18 16:45 8884 Aug 27 07:51 8884 Sep 10 15:36 8884 Sep 12 04:27 8884 Sep 24 01:35 8884 Sep 28 02:40 8884 Oct 05 00:58 8884 Oct 06 17:17 8884 Oct 06 14:06 8884 Oct 15 03:33 8884 Oct 18 02:47 8884 Oct 28 23:54	27° \$\alpha 45'10 27° \$\alpha 37'42 0° m 12° m 49'08 0° \omega 20° \omega 05'21 21° \omega 30'09 26° \omega 47'29 26° \omega 11'44 22° \omega 59'32 22° \omega 00'43 22° \omega 00'43 17° \omega 48'41 22° \omega 55'07	0°30'08 0°29'43 23°13'28 0.55417 AU -5°33'51 5°33'33	superior conj minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set inferior conj	8885 Jul 26 19:26 8885 Jul 26 19:19 8885 Jul 26 13:42 8885 Jul 27 00:57 8885 Jul 26 14:08 8885 Aug 03 03:13 8885 Aug 04 09:24 8885 Aug 22 21:52 8885 Aug 23 07:17 8885 Aug 30 01:34 8885 Sep 04 15:49 8885 Sep 07 07:49 8885 Sep 16 11:43 8885 Sep 16 02:32 8885 Sep 16 09:19	11° \$\alpha 51'36 11° \$\alpha 51'02 11° \$\alpha 21'34 12° \$\alpha 20'34 11° \$\alpha 23'54 27° \$\alpha 22'22 0° \$\mathbf{m}\$ 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 23'32 5° \$\mathbf{n}\$ 16'04 6° \$\mathbf{n}\$ 31'20 6° \$\mathbf{n}\$ 15'13 2° \$\mathbf{n}\$ 17'16 2° \$\mathbf{n}\$ 30'06 2° \$\mathbf{n}\$ 20'38	0°02'14 0°02'01 21°36'46 -4°43'36
superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	8884 Aug 11 17:44 8884 Aug 11 16:21 8884 Aug 12 18:39 8884 Aug 18 16:45 8884 Aug 27 07:51 8884 Sep 10 15:36 8884 Sep 12 04:27 8884 Sep 24 01:35 8884 Sep 28 02:40 8884 Oct 05 00:58 8884 Oct 06 17:17 8884 Oct 06 14:06 8884 Oct 15 03:33 8884 Oct 18 02:47 8884 Oct 28 23:54 8884 Nov 03 23:32	27° \$\alpha 45'10 27° \$\alpha 37'42 0° m 12° m 49'08 0° \omega 20° \omega 05'21 21° \omega 30'09 26° \omega 47'29 26° \omega 11'44 22° \omega 59'32 22° \omega 00'43 22° \omega 09'45 17° \omega 48'41 22° \omega 55'07 0° m.	0°30'08 0°29'43 23°13'28 0.55417 AU -5°33'51 5°33'33	superior conj 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.	8885 Jul 26 19:26 8885 Jul 26 19:19 8885 Jul 26 13:42 8885 Jul 27 00:57 8885 Jul 26 14:08 8885 Aug 03 03:13 8885 Aug 04 09:24 8885 Aug 22 21:52 8885 Aug 23 07:17 8885 Aug 30 01:34 8885 Sep 04 15:49 8885 Sep 07 07:49 8885 Sep 16 11:43 8885 Sep 16 02:32 8885 Sep 16 09:19 8885 Sep 20 19:08	11° \$\alpha 51'36 11° \$\alpha 51'02 11° \$\alpha 21'34 12° \$\alpha 20'34 11° \$\alpha 23'54 27° \$\alpha 22'22 0° \$\mathred{m}\$ 0° \$\mathred{\Omega} 23'32 5° \$\mathred{\Omega} 16'04 6° \$\mathred{\Omega} 31'20 6° \$\mathred{\Omega} 15'13 2° \$\mathred{\Omega} 17'16 2° \$\mathred{\Omega} 30'06 2° \$\mathred{\Omega} 20'38 30° \$\mathred{\Omega} \mathred{\Omega} \mathred{\Omega} 30'\mathred{\Omega}	0°02'14 0°02'01 21°36'46 -4°43'36 4°41'31
superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	8884 Aug 11 17:44 8884 Aug 11 16:21 8884 Aug 12 18:39 8884 Aug 18 16:45 8884 Aug 27 07:51 8884 Sep 10 15:36 8884 Sep 12 04:27 8884 Sep 24 01:35 8884 Sep 28 02:40 8884 Oct 05 00:58 8884 Oct 06 17:17 8884 Oct 06 14:06 8884 Oct 15 03:33 8884 Oct 18 02:47 8884 Oct 28 23:54 8884 Nov 03 23:32 8884 Nov 04 17:00	27° \$\alpha 45'10 27° \$\alpha 37'42 0° m 12° m 49'08 0° \omega 20° \omega 05'21 21° \omega 30'09 26° \omega 47'29 26° \omega 11'44 22° \omega 59'32 22° \omega 00'43 22° \omega 09'45 17° \omega 48'41 22° \omega 55'07 0° m 1° \omega 03'09	0°30'08 0°29'43 23°13'28 0.55417 AU -5°33'51 5°33'33	superior conj 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.	8885 Jul 26 19:26 8885 Jul 26 19:19 8885 Jul 26 13:42 8885 Jul 27 00:57 8885 Jul 26 14:08 8885 Aug 03 03:13 8885 Aug 04 09:24 8885 Aug 22 21:52 8885 Aug 23 07:17 8885 Aug 30 01:34 8885 Sep 04 15:49 8885 Sep 16 11:43 8885 Sep 16 02:32 8885 Sep 16 09:19 8885 Sep 20 19:08 8885 Sep 24 22:17	11° \$\alpha 51'36 11° \$\alpha 51'02 11° \$\alpha 21'34 12° \$\alpha 20'34 11° \$\alpha 23'54 27° \$\alpha 22'22 0° \$\mathred{m}\$ 0° \$\mathred{\Omega} 23'32 5° \$\mathred{\Omega} 16'04 6° \$\mathred{\Omega} 31'20 6° \$\mathred{\Omega} 15'13 2° \$\mathred{\Omega} 17'16 2° \$\mathred{\Omega} 30'06 2° \$\mathred{\Omega} 20'38 30° \$\mathred{\Omega} \mathred{\Omega} 27'27	0°02'14 0°02'01 21°36'46 -4°43'36 4°41'31
superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	8884 Aug 11 17:44 8884 Aug 11 16:21 8884 Aug 12 18:39 8884 Aug 18 16:45 8884 Aug 27 07:51 8884 Sep 10 15:36 8884 Sep 12 04:27 8884 Sep 24 01:35 8884 Sep 28 02:40 8884 Oct 05 00:58 8884 Oct 06 17:17 8884 Oct 06 14:06 8884 Oct 15 03:33 8884 Oct 18 02:47 8884 Oct 28 23:54 8884 Nov 03 23:32 8884 Nov 04 17:00 8884 Nov 16 21:02	27° \$\alpha 45'10 27° \$\alpha 37'42 0° m 12° m 49'08 0° \omega 20° \omega 05'21 21° \omega 30'09 26° \omega 47'29 26° \omega 11'44 22° \omega 59'32 22° \omega 00'43 22° \omega 05'24 18° \omega 09'45 17° \omega 48'41 22° \omega 55'07 0° m 1° m 03'09 23° m 16'16	0°30'08 0°29'43 23°13'28 0.55417 AU -5°33'51 5°33'33	superior conj 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.	8885 Jul 26 19:26 8885 Jul 26 19:19 8885 Jul 26 13:42 8885 Jul 27 00:57 8885 Jul 26 14:08 8885 Aug 03 03:13 8885 Aug 04 09:24 8885 Aug 22 21:52 8885 Aug 23 07:17 8885 Aug 30 01:34 8885 Sep 04 15:49 8885 Sep 07 07:49 8885 Sep 16 11:43 8885 Sep 16 02:32 8885 Sep 16 09:19 8885 Sep 20 19:08 8885 Sep 24 22:17 8885 Sep 28 12:46	11° \$\alpha 51'36 11° \$\alpha 51'02 11° \$\alpha 21'34 12° \$\alpha 20'34 11° \$\alpha 23'54 27° \$\alpha 22'22 0° \$\mathred{m}\$ 0° \$\mathred{m}\$ 0° \$\mathred{m}\$ 23'32 5° \$\mathred{m}\$ 16'04 6° \$\mathred{m}\$ 2° \$\mathred{m}\$ 17'16 2° \$\mathred{m}\$ 2° \$\mathred{m}\$ 30'06 2° \$\mathred{m}\$ 28° \$\mathred{m}\$ 27'27 27° \$\mathred{m}\$ 59'10	0°02'14 0°02'01 21°36'46 -4°43'36 4°41'31
superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	8884 Aug 11 17:44 8884 Aug 11 16:21 8884 Aug 12 18:39 8884 Aug 18 16:45 8884 Aug 27 07:51 8884 Sep 10 15:36 8884 Sep 12 04:27 8884 Sep 24 01:35 8884 Sep 28 02:40 8884 Oct 05 00:58 8884 Oct 06 17:17 8884 Oct 06 14:06 8884 Oct 15 03:33 8884 Oct 18 02:47 8884 Oct 28 23:54 8884 Nov 03 23:32 8884 Nov 04 17:00	27° \$\alpha 45'10 27° \$\alpha 37'42 0° m 12° m 49'08 0° \omega 20° \omega 05'21 21° \omega 30'09 26° \omega 47'29 26° \omega 11'44 22° \omega 59'32 22° \omega 00'43 22° \omega 09'45 17° \omega 48'41 22° \omega 55'07 0° m 1° \omega 03'09	0°30'08 0°29'43 23°13'28 0.55417 AU -5°33'51 5°33'33	superior conj 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	8885 Jul 26 19:26 8885 Jul 26 19:19 8885 Jul 26 13:42 8885 Jul 27 00:57 8885 Jul 26 14:08 8885 Aug 03 03:13 8885 Aug 04 09:24 8885 Aug 22 21:52 8885 Aug 23 07:17 8885 Aug 30 01:34 8885 Sep 04 15:49 8885 Sep 07 07:49 8885 Sep 16 11:43 8885 Sep 16 02:32 8885 Sep 16 09:19 8885 Sep 20 19:08 8885 Sep 24 22:17 8885 Sep 28 12:46 8885 Oct 05 18:16	11° \$\alpha 51'36 11° \$\alpha 51'02 11° \$\alpha 21'34 12° \$\alpha 20'34 11° \$\alpha 23'54 27° \$\alpha 22'22 0° \$\mathred{m}\$ 0° \$\alpha 23'32 5° \$\alpha 16'04 6° \$\alpha 31'20 6° \$\alpha 15'13 2° \$\alpha 17'16 2° \$\alpha 30'06 2° \$\alpha 20'38 30° \$\mathred{m}\$ 28° \$\mathred{m} 27'27 27° \$\mathred{m} 59'10 0° \$\alpha\$	0°02'14 0°02'01 21°36'46 -4°43'36 4°41'31 0.54699 AU
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superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	8884 Aug 11 17:44 8884 Aug 11 16:21 8884 Aug 12 18:39 8884 Aug 18 16:45 8884 Aug 27 07:51 8884 Sep 10 15:36 8884 Sep 12 04:27 8884 Sep 24 01:35 8884 Oct 05 00:58 8884 Oct 06 17:17 8884 Oct 06 14:06 8884 Oct 15 03:33 8884 Oct 18 02:47 8884 Oct 28 23:54 8884 Nov 04 17:00 8884 Nov 04 17:00 8884 Nov 04 17:00 8884 Nov 16 21:02 8884 Nov 24 09:01 8884 Nov 24 09:01 8884 Nov 24 10:55 8884 Nov 29 13:37 8884 Dec 03 11:13 8884 Dec 05 10:25	27° \$\alpha 45'10 27° \$\alpha 37'42 0° m 12° m 49'08 0° \omega 20° \omega 05'21 21° \omega 30'09 26° \omega 47'29 26° \omega 11'44 22° \omega 59'32 22° \omega 00'43 22° \omega 00'43 17° \omega 48'41 22° \omega 55'07 0° m 1° m 03'09 23° m 16'16 0° \$\alpha '' 45'20 8° \$\alpha 45'20 8° \$\alpha 55'00 19° \$\alpha 03'58 26° \$\alpha 25'24 0° \$\alpha 55'24	0°30'08 0°29'43 23°13'28 0.55417 AU -5°33'51 5°33'33 20°33'20	superior conj 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	8885 Jul 26 19:26 8885 Jul 26 19:19 8885 Jul 26 13:42 8885 Jul 27 00:57 8885 Jul 26 14:08 8885 Aug 03 03:13 8885 Aug 04 09:24 8885 Aug 22 21:52 8885 Aug 23 07:17 8885 Aug 30 01:34 8885 Sep 04 15:49 8885 Sep 07 07:49 8885 Sep 16 11:43 8885 Sep 16 02:32 8885 Sep 16 02:32 8885 Sep 16 09:19 8885 Sep 20 19:08 8885 Sep 20 19:08 8885 Sep 21 2:46 8885 Oct 05 18:16 8885 Oct 05 18:16 8885 Oct 02 13:58 8885 Oct 28 08:48 8885 Nov 08 10:00	11° \$\alpha 51'36 11° \$\alpha 51'02 11° \$\alpha 21'34 12° \$\alpha 20'34 11° \$\alpha 23'54 27° \$\alpha 22'22 0° \$\mathred{m}\$ 0° \$\mathred{m}\$ 2° \$\mathred{m}\$ 2° \$\mathred{m}\$ 2° \$\mathred{m}\$ 2° \$\mathred{m}\$ 2° \$\mathred{m}\$ 30'06 2° \$\mathred{m}\$ 28° \$\mathred{m}\$ 28° \$\mathred{m}\$ 27'27 27° \$\mathred{m}\$ 59'10 0° \$\mathred{m}\$ 3° \$\mathred{m}\$ 10° \$\mathred{m}\$ 8° \$\mathred{m}\$ 24'10 23° \$\mathred{m}\$ 11'14	0°02'14 0°02'01 21°36'46 -4°43'36 4°41'31 0.54699 AU 22°07'28
superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	8884 Aug 11 17:44 8884 Aug 11 16:21 8884 Aug 12 18:39 8884 Aug 18 16:45 8884 Aug 27 07:51 8884 Sep 10 15:36 8884 Sep 12 04:27 8884 Sep 24 01:35 8884 Sep 28 02:40 8884 Oct 05 00:58 8884 Oct 06 17:17 8884 Oct 06 14:06 8884 Oct 15 03:33 8884 Oct 18 02:47 8884 Oct 18 02:47 8884 Oct 28 23:54 8884 Nov 03 23:32 8884 Nov 04 17:00 8884 Nov 04 17:00 8884 Nov 16 21:02 8884 Nov 20 03:01 8884 Nov 24 09:01 8884 Nov 24 10:55 8884 Nov 29 13:37 8884 Dec 03 11:13 8884 Dec 05 10:25 8884 Dec 09 03:11	27° \$\alpha 45'10 27° \$\alpha 37'42 0° m 12° m 49'08 0° \omega 20° \omega 05'21 21° \omega 30'09 26° \omega 47'29 26° \omega 11'44 22° \omega 59'32 22° \omega 00'43 22° \omega 09'45 17° \omega 48'41 22° \omega 55'07 0° m 1° m 03'09 23° m 16'16 0° \$\alpha '' 45'20 8° \$\alpha 55'00 19° \$\alpha 03'58 26° \$\alpha 25'24 0° \omega 6° \omega 29'14	0°30'08 0°29'43 23°13'28 0.55417 AU -5°33'51 5°33'33 20°33'20	superior conj 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	8885 Jul 26 19:26 8885 Jul 26 19:19 8885 Jul 26 13:42 8885 Jul 27 00:57 8885 Jul 26 14:08 8885 Aug 03 03:13 8885 Aug 04 09:24 8885 Aug 22 21:52 8885 Aug 23 07:17 8885 Aug 30 01:34 8885 Sep 04 15:49 8885 Sep 07 07:49 8885 Sep 16 11:43 8885 Sep 16 02:32 8885 Sep 16 02:32 8885 Sep 16 09:19 8885 Sep 20 19:08 8885 Sep 20 19:08 8885 Sep 21 22:17 8885 Sep 28 12:46 8885 Oct 05 18:16 8885 Oct 05 18:16 8885 Oct 05 18:16 8885 Oct 22 13:58 8885 Oct 28 08:48 8885 Nov 08 10:00 8885 Nov 08 10:00 8885 Nov 08 10:36	11° \$\alpha 51'36 11° \$\alpha 51'02 11° \$\alpha 21'34 12° \$\alpha 20'34 11° \$\alpha 23'54 27° \$\alpha 22'22 0° \$\mathred{m}\$ 0° \$\mathred{m}\$ 2° \$\mathred{m}\$ 2° \$\mathred{m}\$ 2° \$\mathred{m}\$ 2° \$\mathred{m}\$ 20'38 30° \$\mathred{m}\$ 28° \$\mathred{m}\$ 28' \$\mathred{m}\$ 27'27 27° \$\mathred{m}\$ 59'10 0° \$\mathred{m}\$ 3° \$\mathred{m}\$ 10° \$\mathred{m}\$ 8° \$\mathred{m}\$ 0° \$\mathred{m}\$ 23° \$\mathred{m}\$ 11'14 23° \$\mathred{m}\$ 11'14	0°02'14 0°02'01 21°36'46 -4°43'36 4°41'31 0.54699 AU 22°07'28
superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	8884 Aug 11 17:44 8884 Aug 11 16:21 8884 Aug 12 18:39 8884 Aug 18 16:45 8884 Aug 27 07:51 8884 Sep 10 15:36 8884 Sep 12 04:27 8884 Sep 24 01:35 8884 Sep 28 02:40 8884 Oct 05 00:58 8884 Oct 06 17:17 8884 Oct 15 03:33 8884 Oct 18 02:47 8884 Oct 18 02:47 8884 Oct 28 23:54 8884 Nov 03 23:32 8884 Nov 04 17:00 8884 Nov 16 21:02 8884 Nov 20 03:01 8884 Nov 24 09:01 8884 Nov 24 10:55 8884 Nov 29 13:37 8884 Dec 03 11:13 8884 Dec 05 10:25 8884 Dec 09 03:11 8884 Dec 24 06:03	27° \$\alpha 45'10 27° \$\alpha 37'42 0° m 12° m 49'08 0° \omega 20° \omega 05'21 21° \omega 30'09 26° \omega 47'29 26° \omega 11'44 22° \omega 59'32 22° \omega 00'43 22° \omega 05'24 18° \omega 09'45 17° \omega 48'41 22° \omega 55'07 0° m 1° m 03'09 23° m 16'16 0° \$\struct '' 8° \$\struct '' 45'20 8° \$\struct '' 55'00 19° \$\struct '' 03'58 26° \$\struct '' 25'24 0° \omega 6° \omega 29'14 0° \omega 6	0°30'08 0°29'43 23°13'28 0.55417 AU -5°33'51 5°33'33 20°33'20 1°33'35 1°33'40 1.36172 AU	superior conj 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	8885 Jul 26 19:26 8885 Jul 26 19:19 8885 Jul 26 13:42 8885 Jul 27 00:57 8885 Jul 26 14:08 8885 Aug 03 03:13 8885 Aug 04 09:24 8885 Aug 04 09:24 8885 Aug 22 21:52 8885 Aug 30 01:34 8885 Sep 04 15:49 8885 Sep 04 15:49 8885 Sep 16 11:43 8885 Sep 16 02:32 8885 Sep 16 02:32 8885 Sep 16 09:19 8885 Sep 20 19:08 8885 Sep 20 19:08 8885 Sep 24 22:17 8885 Sep 28 12:46 8885 Oct 05 18:16 8885 Oct 05 18:16 8885 Oct 10 21:53 8885 Oct 22 13:58 8885 Oct 28 08:48 8885 Nov 08 10:00 8885 Nov 08 10:00 8885 Nov 08 10:36 8885 Nov 08 10:36	11° \$\alpha 51'36 11° \$\alpha 51'02 11° \$\alpha 21'34 12° \$\alpha 20'34 11° \$\alpha 23'54 27° \$\alpha 22'22 0° \$\mathred{m}\$ 0° \$\mathred{m}\$ 0° \$\mathred{m}\$ 23'32 5° \$\mathred{m}\$ 16'04 6° \$\mathred{m}\$ 2° \$\mathred{m}\$ 17'16 2° \$\mathred{m}\$ 20'38 30° \$\mathred{m}\$ 28° \$\mathred{m}\$ 27'27 27° \$\mathred{m}\$ 59'10 0° \$\mathred{m}\$ 3° \$\mathred{m}\$ 10' \$\mathred{m}\$ 8° \$\mathred{m}\$ 0° \$\mathred{m}\$ 23° \$\mathred{m}\$ 11'14 23° \$\mathred{m}\$ 14'26 0° \$\nalpha\$	0°02'14 0°02'01 21°36'46 -4°43'36 4°41'31 0.54699 AU 22°07'28
superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	8884 Aug 11 17:44 8884 Aug 11 16:21 8884 Aug 12 18:39 8884 Aug 18 16:45 8884 Aug 27 07:51 8884 Sep 10 15:36 8884 Sep 12 04:27 8884 Sep 24 01:35 8884 Sep 28 02:40 8884 Oct 05 00:58 8884 Oct 06 14:06 8884 Oct 15 03:33 8884 Oct 18 02:47 8884 Oct 18 02:47 8884 Oct 28 23:54 8884 Nov 03 23:32 8884 Nov 04 17:00 8884 Nov 16 21:02 8884 Nov 20 03:01 8884 Nov 24 09:01 8884 Nov 24 10:55 8884 Nov 29 13:37 8884 Dec 03 11:13 8884 Dec 05 10:25 8884 Dec 09 03:11 8884 Dec 24 06:03 8885 Jan 08 00:34	27° \$\alpha 45'10 27° \$\alpha 37'42 0° m 12° m 49'08 0° \omega 20° \omega 05'21 21° \omega 30'09 26° \omega 47'29 26° \omega 11'44 22° \omega 59'32 22° \omega 00'43 22° \omega 05'24 18° \omega 09'45 17° \omega 48'41 22° \omega 55'07 0° m 1° m 03'09 23° m 16'16 0° \$\struct '' 8° \$\struct '' 45'20 8° \$\struct '' 55'00 19° \$\struct '' 03'58 26° \$\struct '' 25'24 0° \$\omega 6° \omega 29'14 0° \impse 17° \$\impse 54'26	0°30'08 0°29'43 23°13'28 0.55417 AU -5°33'51 5°33'33 20°33'20	superior conj 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.	8885 Jul 26 19:26 8885 Jul 26 19:19 8885 Jul 26 13:42 8885 Jul 27 00:57 8885 Jul 26 14:08 8885 Aug 03 03:13 8885 Aug 04 09:24 8885 Aug 04 09:24 8885 Aug 22 21:52 8885 Aug 30 01:34 8885 Sep 04 15:49 8885 Sep 04 15:49 8885 Sep 16 11:43 8885 Sep 16 02:32 8885 Sep 16 02:32 8885 Sep 16 09:19 8885 Sep 20 19:08 8885 Sep 20 19:08 8885 Sep 21 12:46 8885 Oct 05 18:16 8885 Oct 05 18:16 8885 Oct 05 18:16 8885 Oct 10 21:53 8885 Oct 22 13:58 8885 Oct 28 08:48 8885 Nov 01 07:18	11° \$\alpha 51'36 11° \$\alpha 51'02 11° \$\alpha 21'34 12° \$\alpha 20'34 11° \$\alpha 23'54 27° \$\alpha 22'22 0° \$\mathred{m}\$ 0° \$\alpha 23'32 5° \$\alpha 16'04 6° \$\alpha 31'20 6° \$\alpha 15'13 2° \$\alpha 17'16 2° \$\alpha 30'06 2° \$\alpha 20'38 30° \$\mathred{m}\$ 28° \$\mathred{m} 27'27 27° \$\mathred{m} 59'10 0° \$\alpha 3° \$\alpha 51'00 19° \$\alpha 18'41 0° \$\mathred{m}\$ 8° \$\mathred{m} 04'10 23° \$\mathred{m} 11'14 23° \$\mathred{m} 11'14 23° \$\mathred{m} 14'26 0° \$\nalpha '\sigma 57'52	0°02'14 0°02'01 21°36'46 -4°43'36 4°41'31 0.54699 AU 22°07'28
superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong 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	8884 Aug 11 17:44 8884 Aug 11 16:21 8884 Aug 12 18:39 8884 Aug 18 16:45 8884 Aug 27 07:51 8884 Sep 10 15:36 8884 Sep 12 04:27 8884 Sep 24 01:35 8884 Sep 28 02:40 8884 Oct 05 00:58 8884 Oct 06 17:17 8884 Oct 15 03:33 8884 Oct 18 02:47 8884 Oct 18 02:47 8884 Oct 28 23:54 8884 Nov 04 17:00 8884 Nov 04 17:00 8884 Nov 04 17:00 8884 Nov 16 21:02 8884 Nov 20 03:01 8884 Nov 24 09:01 8884 Nov 24 09:01 8884 Nov 24 10:55 8884 Nov 29 13:37 8884 Dec 03 11:13 8884 Dec 05 10:25 8884 Dec 09 03:11 8884 Dec 04:03 8885 Jan 08 00:34 8885 Jan 08 00:34	27° \$\alpha 45'10 27° \$\alpha 37'42 0° m 12° m 49'08 0° \overline{\Pi} 20° \overline{\Pi} 20'21 21° \overline{\Pi} 30'09 26° \overline{\Pi} 47'29 26° \overline{\Pi} 11'44 22° \overline{\Pi} 59'32 22° \overline{\Pi} 00'43 22° \overline{\Pi} 05'24 18° \overline{\Pi} 09'45 17° \overline{\Pi} 48'41 22° \overline{\Pi} 55'07 0° m 1° m 03'09 23° m 16'16 0° \$\structure{\Pi} 23' m 16'16 0° \$\structure{\Pi} 25' \text{20} 8° \$\structure{\Pi} 55'00 19° \$\structure{\Pi} 03'58 26° \$\structure{\Pi} 29'14 0° \overline{\Pi} 6° \$\overline{\Pi} 29'14 0° \overline{\Pi} 54'26 25° \$\infty 66'32	0°30'08 0°29'43 23°13'28 0.55417 AU -5°33'51 5°33'33 20°33'20 1°33'35 1°33'40 1.36172 AU	superior conj 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 max el asc. node morning set superior conj minimum elong	8885 Jul 26 19:26 8885 Jul 26 19:19 8885 Jul 26 13:42 8885 Jul 27 00:57 8885 Jul 26 14:08 8885 Aug 03 03:13 8885 Aug 04 09:24 8885 Aug 04 09:24 8885 Aug 22 21:52 8885 Aug 30 01:34 8885 Sep 04 15:49 8885 Sep 07 07:49 8885 Sep 16 11:43 8885 Sep 16 02:32 8885 Sep 16 09:19 8885 Sep 16 09:19 8885 Sep 20 19:08 8885 Sep 21 19:08 8885 Sep 24 22:17 8885 Sep 28 12:46 8885 Oct 05 18:16 8885 Oct 05 18:16 8885 Oct 10 21:53 8885 Oct 22 13:58 8885 Oct 28 08:48 8885 Nov 01 07:18 8885 Nov 08 10:00 8885 Nov 08 10:36 8885 Nov 11 16:29 8885 Nov 12 03:47 8885 Nov 16 14:10	11° \$\alpha 51'36 11° \$\alpha 51'02 11° \$\alpha 21'34 12° \$\alpha 20'34 11° \$\alpha 23'54 27° \$\alpha 22'22 0° \$\mathred{m}\$ 0° \$\alpha 23'32 5° \$\alpha 16'04 6° \$\alpha 31'20 6° \$\alpha 31'20 6° \$\alpha 31'20 6° \$\alpha 31'20 6° \$\alpha 31'716 2° \$\alpha 30'06 2° \$\alpha 20'38 30° \$\mathred{m}\$ 28° \$\mathred{m} 27'27 27° \$\mathred{m} 59'10 0° \$\alpha 3^2 \$\alpha 51'00 19° \$\alpha 18'41 0° \$\mathred{m}\$ 8° \$\mathred{m} 04'10 23° \$\mathred{m} 11'14 23° \$\mathred{m} 11'14 23° \$\mathred{m} 14'26 0° \$\neq \$\frac{\sqrt{n}}{2} \frac{\sqrt{n}}{2}	0°02'14 0°02'01 21°36'46 -4°43'36 4°41'31 0.54699 AU 22°07'28
superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	8884 Aug 11 17:44 8884 Aug 11 16:21 8884 Aug 12 18:39 8884 Aug 18 16:45 8884 Aug 27 07:51 8884 Sep 10 15:36 8884 Sep 12 04:27 8884 Sep 24 01:35 8884 Sep 28 02:40 8884 Oct 05 00:58 8884 Oct 06 14:06 8884 Oct 15 03:33 8884 Oct 18 02:47 8884 Oct 18 02:47 8884 Oct 28 23:54 8884 Nov 03 23:32 8884 Nov 04 17:00 8884 Nov 16 21:02 8884 Nov 20 03:01 8884 Nov 24 09:01 8884 Nov 24 10:55 8884 Nov 29 13:37 8884 Dec 03 11:13 8884 Dec 05 10:25 8884 Dec 09 03:11 8884 Dec 24 06:03 8885 Jan 08 00:34	27° \$\alpha 45'10 27° \$\alpha 37'42 0° m 12° m 49'08 0° \omega 20° \omega 05'21 21° \omega 30'09 26° \omega 47'29 26° \omega 11'44 22° \omega 59'32 22° \omega 00'43 22° \omega 05'24 18° \omega 09'45 17° \omega 48'41 22° \omega 55'07 0° m 1° m 03'09 23° m 16'16 0° \$\struct '' 8° \$\struct '' 45'20 8° \$\struct '' 55'00 19° \$\struct '' 03'58 26° \$\struct '' 25'24 0° \$\omega 6° \omega 29'14 0° \impse 17° \$\impse 54'26	0°30'08 0°29'43 23°13'28 0.55417 AU -5°33'51 5°33'33 20°33'20 1°33'35 1°33'40 1.36172 AU	superior conj 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.	8885 Jul 26 19:26 8885 Jul 26 19:19 8885 Jul 26 13:42 8885 Jul 27 00:57 8885 Jul 26 14:08 8885 Aug 03 03:13 8885 Aug 04 09:24 8885 Aug 04 09:24 8885 Aug 22 21:52 8885 Aug 30 01:34 8885 Sep 04 15:49 8885 Sep 04 15:49 8885 Sep 16 11:43 8885 Sep 16 02:32 8885 Sep 16 02:32 8885 Sep 16 09:19 8885 Sep 20 19:08 8885 Sep 20 19:08 8885 Sep 21 12:46 8885 Oct 05 18:16 8885 Oct 05 18:16 8885 Oct 05 18:16 8885 Oct 10 21:53 8885 Oct 22 13:58 8885 Oct 28 08:48 8885 Nov 01 07:18	11° \$\alpha 51'36 11° \$\alpha 51'02 11° \$\alpha 21'34 12° \$\alpha 20'34 11° \$\alpha 23'54 27° \$\alpha 22'22 0° \$\mathred{m}\$ 0° \$\alpha 23'32 5° \$\alpha 16'04 6° \$\alpha 31'20 6° \$\alpha 15'13 2° \$\alpha 17'16 2° \$\alpha 30'06 2° \$\alpha 20'38 30° \$\mathred{m}\$ 28° \$\mathred{m} 27'27 27° \$\mathred{m} 59'10 0° \$\alpha 3° \$\alpha 51'00 19° \$\alpha 18'41 0° \$\mathred{m}\$ 8° \$\mathred{m} 04'10 23° \$\mathred{m} 11'14 23° \$\mathred{m} 11'14 23° \$\mathred{m} 14'26 0° \$\nalpha '\sigma 57'52	0°02'14 0°02'01 21°36'46 -4°43'36 4°41'31 0.54699 AU 22°07'28

	8885 Dec 19 23:54	0° ≈			8886 Nov 21 13:22	0°ಕ	
evening max el	8885 Dec 21 14:02	1°≈34'43	26°57'45	evening max el	8886 Dec 04 02:29	್ರ 14° ಕ 55'57	27°26'14
retrograde	8886 Jan 03 20:10	8° ≈ 54'39		retrograde	8886 Dec 17 17:17	22° る 15'32	_, _, .
evening set	8886 Jan 10 11:13	6°≈19'26		evening set	8886 Dec 24 16:32	19° る 42'29	
min. Earth dist.	8886 Jan 14 10:56	2° ≈ 25'14	0.65633 AU	min. Earth dist.	8886 Dec 28 11:27	16° る 20'46	0.64019 AU
inferior conj	8886 Jan 16 12:12	0°≈04'00	-0°41'05	inferior conj	8886 Dec 31 00:12	13° る 43'02	-1°48'08
minimum elong	8886 Jan 16 13:23	0° ≈ 00'36	0°40'22	minimum elong	8886 Dec 31 03:35	13° ප 34'13	1°46'31
	8886 Jan 16 13:36	30°₹ る		asc. node	8887 Jan 05 10:24	8° ප 58'51	
asc. node	8886 Jan 18 13:18	27° る 47'44		morning rise	8887 Jan 06 16:23	8° පි 21'26	
morning rise	8886 Jan 22 16:44	24° る 27'42		direct	8887 Jan 09 03:24	7° る 51'11	
direct	8886 Jan 25 11:12	23° る 45'57		morning max el	8887 Jan 15 14:53	11° る 13'19	17°50'17
morning max el	8886 Jan 31 21:38	27° る 11'07	18°08'48		8887 Jan 28 11:28	0° ≈	
	8886 Feb 03 10:15	0° ≈		morning set	8887 Feb 01 09:12	6° ≈ 38'07	
morning set	8886 Feb 19 13:09	24° ≈ 40′26		desc. node	8887 Feb 08 20:44	19° ≈ 14'41	
desc. node	8886 Feb 21 23:48	28° ≈ 38'19					
	8886 Feb 22 20:00	0° ∀		superior conj	8887 Feb 14 09:02	28° ≈ 17'34	
				minimum elong	8887 Feb 14 04:38	27°≈59'42	0°38'49
superior conj	8886 Mar 06 11:52	18°) ₹35'39			8887 Feb 15 10:22	0° ∀	
minimum elong	8886 Mar 06 02:52	18°) €00'11		max. Earth dist.	8887 Feb 19 17:40	6° ₩ 52'52	1.44812 AU
max. Earth dist.	8886 Mar 08 22:18	22°) €25'03	1.45495 AU	evening rise	8887 Mar 02 03:37	23°) €06'21	
	8886 Mar 13 18:46	0°Υ			8887 Mar 06 16:03	0° Υ	
evening rise	8886 Mar 22 15:18	13° Y 46′03			8887 Mar 27 20:36	0°8	20022110
4 41 711	8886 Apr 02 03:42	0° 8	0.7	evening max el	8887 Mar 30 00:51	2° 8 22'31	20°23'10
greatest brilliancy	8886 Apr 04 00:10 8886 Apr 15 22:08	2° 8 48'18 18° 8 42'49	-0.7m 19°24'17	asc. node	8887 Apr 03 09:08	5° と 55'01 7° と 00'19	
evening max el asc. node	-	18 8 4249	19 24 17	retrograde	8887 Apr 06 23:43 8887 Apr 10 22:40	5° 8 30'05	
retrograde	8886 Apr 16 12:01 8886 Apr 23 01:07	22° 8 45'05		evening set	8887 Apr 15 19:46	30°RΥ	
evening set	8886 Apr 26 15:05	21° 8 30'10		inferior conj	8887 Apr 16 06:14	29° Υ 24'17	3°10'22
inferior conj	8886 May 02 01:16	15° 8 37'50	3°21'01	minimum elong	8887 Apr 16 04:49	29° Y 29'07	3°10'22
minimum elong	8886 May 02 00:49	15° 8 39'16	3°20'51	min. Earth dist.	8887 Apr 16 23:33	28° Y 25'09	0.67813 AU
min. Earth dist.	8886 May 03 08:48	13° 8 54'40	0.66824 AU	morning rise	8887 Apr 21 10:46	23° Y 07'40	0.07813 AC
morning rise	8886 May 07 10:12	9° 8 19'15	0.00021710	direct	8887 Apr 27 01:51	20° Υ 37'16	
direct	8886 May 13 13:44	6° 8 36'20		desc. node	8887 May 07 20:42	26°Υ51'23	
desc. node	8886 May 20 23:44	9° 8 36'11		morning max el	8887 May 08 09:57	27° Y 24'26	24°25'16
morning max el	8886 May 26 00:36	14° 8 03'10	25°49'54		8887 May 10 20:18	0°8	
5 5	8886 Jun 07 23:41	0°II			8887 Jun 01 15:19	0°II	
	8886 Jun 27 00:56	0°99		morning set	8887 Jun 13 04:35	19° Ⅱ 04'33	
morning set	8886 Jul 01 03:09	7° © 20'25		max. Earth dist.	8887 Jun 16 20:07	25° Ⅲ 33'05	1.37699 AU
max. Earth dist.	8886 Jul 04 21:38	14° 5 24'23	1.35606 AU		8887 Jun 19 06:29	0°ಅ	
superior conj	8886 Jul 10 13:06	25° © 30'47	-0°28'42	superior conj	8887 Jun 23 19:30	8°534'59	-1°00'58
minimum elong	8886 Jul 10 14:48	25° © 39'25	0°28'36	minimum elong	8887 Jun 23 23:20	8° © 53'30	1°00'33
	8886 Jul 12 18:03	0 $^{\circ}$ Ω		asc. node	8887 Jun 30 08:08	21° 5 25′10	
asc. node	8886 Jul 13 11:07	1° Ω 27'33		evening rise	8887 Jul 02 12:03	25°543'27	
evening rise	8886 Jul 18 10:28	11° Ω 42'35			8887 Jul 04 16:05	$0^{\circ}\Omega$	
	8886 Jul 28 01:28	0° т р		evening max el	8887 Jul 19 03:08	22° Ω 49'54	19°11'33
evening max el	8886 Aug 05 10:36	11° mp 14'08	20°14'10	retrograde	8887 Jul 28 04:59	27° Ω 19'42	
retrograde	8886 Aug 16 04:34	16° Mp 33'11		evening set	8887 Jul 30 02:03	27° Ω 08'57	
desc. node	8886 Aug 16 22:43	16° Mp 31'42		desc. node	8887 Aug 03 19:51	25° Ω 18'53	1000112
evening set	8886 Aug 18 03:25	16° Mp 23'26	2905!16	inferior conj	8887 Aug 07 13:49	22° Ω 57'45 23° Ω 02'51	
inferior conj minimum elong	8886 Aug 27 05:53 8886 Aug 26 21:39	12° Mp 25'16 12° Mp 37'24		minimum elong min. Earth dist.	8887 Aug 07 10:46 8887 Aug 10 08:18	23° λ 02'31 21° Ω 06'31	0.56057 AU
min. Earth dist.	8886 Aug 28 19:01	12 m/3/24 11°m/30'33	0.54921 AU	morning rise	8887 Aug 15 16:35	18° Ω 14'01	0.30037 AU
morning rise	8886 Sep 04 14:54	8° Mp 16'26	0.54921 AU	direct	8887 Aug 20 20:17	18 8€ 1401 17° Ω 12'45	
direct	8886 Sep 08 23:03	7° Mp 35'48		morning max el	8887 Sep 04 00:03	24°Ω24'40	25°35'18
morning max el	8886 Sep 22 11:24	14°M)11'10	23°53'13	morning max cr	8887 Sep 09 03:25	0°m)	23 33 16
	8886 Oct 04 18:01	0∘ ʊ		asc. node	8887 Sep 26 07:54	27° m 30'43	
asc. node	8886 Oct 09 10:56	ა – 8° ჲ 10'57			8887 Sep 27 13:52	0° ⊡	
morning set	8886 Oct 16 19:01	22° £ 53'40		morning set	8887 Oct 01 06:28	ა — 7° ჲ 40'02	
	8886 Oct 20 02:07	0°M			52. 52. 50.20	0 02	
				superior conj	8887 Oct 08 03:03	22° ≏ 40'13	1°34'07
superior conj	8886 Oct 23 16:47	7° M 51'50	1°40'11	minimum elong	8887 Oct 08 01:31	22° £ 31'46	1°34'05
minimum elong	8886 Oct 23 16:12	7°M48'35	1°40'18	max. Earth dist.	8887 Oct 09 07:44	25° ≏ 18′08	1.32106 AU
max. Earth dist.	8886 Oct 26 02:19	13°M01'33	1.33028 AU		8887 Oct 11 11:24	0°M₊	
evening rise	8886 Oct 31 05:03	23°M38'53		evening rise	8887 Oct 15 04:40	7°M53'52	
	8886 Nov 03 10:34	0° ∡ ¹			8887 Oct 26 21:03	0° ∡ ¹	
desc. node	8886 Nov 12 21:18	16° ₹ 49'12		desc. node	8887 Oct 30 18:23	6° ∡ 121'47	

evening max el	8887 Nov 16 11:46	27° ∡ ¹45'05	27°24'51	evening rise	8888 Sep 28 10:22	22° ≏ 24'08	
evening man er	8887 Nov 19 00:58	0°ਤ	2, 2.01	evening rise	8888 Oct 02 02:41	0°M	
retrograde	8887 Nov 30 07:22	5° る 00'13		desc. node	8888 Oct 16 15:30	25°M15'43	
evening set	8887 Dec 07 09:25	2° ප 38'18			8888 Oct 20 00:54	0° ∡ 7	
C	8887 Dec 10 18:34	30°R <i>≯</i> 7		evening max el	8888 Oct 28 15:21	9° √ 50'36	26°49'57
min. Earth dist.	8887 Dec 11 01:49	29° х 43′56	0.62119 AU	retrograde	8888 Nov 11 13:24	16° ∡ 759'45	
inferior conj	8887 Dec 14 00:36	27° ∡ 00′25	-2°59'13	evening set	8888 Nov 18 09:53	14° ₹ ′59'48	
minimum elong	8887 Dec 14 06:22	26° ҂ 47'05	2°56'53	min. Earth dist.	8888 Nov 22 05:37	12° ₹ 22'18	0.60040 AU
morning rise	8887 Dec 21 05:34	21° ₹ 56'51		inferior conj	8888 Nov 25 10:02	9° ∡ ¹47'33	-4°09'00
direct	8887 Dec 23 11:37	21° ∡ ³34'27		minimum elong	8888 Nov 25 17:25	9° ∡ 32'32	4°06'39
asc. node	8887 Dec 23 07:28	21° ₹ ³34'36		morning rise	8888 Dec 03 03:28	5° ∡ 104'52	
morning max el	8887 Dec 30 07:43	25° ∡ ¹02'56	17°49'31	direct	8888 Dec 05 07:51	4° ∡ ¹46'56	
	8888 Jan 03 10:02	8°0		asc. node	8888 Dec 09 04:30	5° ∡ ¹45'55	
morning set	8888 Jan 15 03:13	19° る 38'20		morning max el	8888 Dec 12 20:42	8° ∡ ³30'51	18°07'45
	8888 Jan 20 23:14	0° ≈			8888 Dec 26 17:37	8°0	
				morning set	8888 Dec 28 13:04	3° る 22'59	
superior conj	8888 Jan 26 06:54	9° ≈ 11'17	0°03'20				
minimum elong	8888 Jan 26 07:14	9° ≈ 12'42	0°03'29	superior conj	8889 Jan 07 05:23	21° る 15'22	0°39'42
behind sun begin	8888 Jan 25 22:40	8° ≈ 36'15		minimum elong	8889 Jan 07 08:13	21° る 28'04	0°39'31
behind sun end	8888 Jan 26 15:49	9° ≈ 49'03			8889 Jan 12 04:56	0° ≈	
desc. node	8888 Jan 26 17:38	9° ≈ 56'46		desc. node	8889 Jan 12 14:34	0° ≈ 41'21	
max. Earth dist.	8888 Feb 02 09:39	20° ≈ 59'29	1.43471 AU	max. Earth dist.	8889 Jan 14 20:40	4° ≈ 30'53	1.41634 AU
	8888 Feb 08 01:10	0° ∀		evening rise	8889 Jan 19 23:50	12° ≈ 57'46	
evening rise	8888 Feb 09 17:58	2°) (39′26			8889 Jan 30 23:46	0° ℋ	
	8888 Feb 28 03:46	0 ° \mathbf{Y}		evening max el	8889 Feb 22 14:36	29°) 45′31	22°52'30
evening max el	8888 Mar 11 21:58	16° Ƴ 02'44	21°34'06		8889 Feb 22 20:25	0 ° Υ	
asc. node	8888 Mar 20 06:17	21° Y 19'45		retrograde	8889 Mar 04 17:56	5° ℃ 45'57	
retrograde	8888 Mar 20 21:53	21° Y 21'54		asc. node	8889 Mar 07 03:24	5° Ƴ 17'29	
evening set	8888 Mar 25 06:53	19° Ƴ 36′28		evening set	8889 Mar 09 14:10	3° Y 45'46	
inferior conj	8888 Mar 30 14:07	13° Ƴ 19'36	2°49'05		8889 Mar 13 00:15	30°Ŗ ℋ	
minimum elong	8888 Mar 30 12:05	13° Y 26'40	2°48'36	inferior conj	8889 Mar 14 22:57	27° ∺ 21'05	
min. Earth dist.	8888 Mar 30 18:23	13° Y 04'45	0.68356 AU	minimum elong	8889 Mar 14 20:42	27° ¥ 28'51	2°17'41
morning rise	8888 Apr 04 17:08	7° Y ′06′34		min. Earth dist.	8889 Mar 14 15:06	27°) 48'16	0.68473 AU
direct	8888 Apr 09 18:31	4° Y 54'46		morning rise	8889 Mar 20 03:08	21° ℋ 12'58	
morning max el	8888 Apr 19 20:00	10° Y 52′29	22°55'23	direct	8889 Mar 24 14:41	19° ∺ 22'48	
desc. node	8888 Apr 23 17:38	15° Y 09'35		morning max el	8889 Apr 02 09:59	24° ∺ 29'19	21°29'17
	8888 May 04 23:40	0°8			8889 Apr 07 07:18	0° Υ	
morning set	8888 May 24 05:53	29° 8 39'54		desc. node	8889 Apr 10 14:32	4° Υ 13'39	
	8888 May 24 10:44	Π $^{\circ}0$			8889 Apr 28 09:25	0°8	
max. Earth dist.	8888 May 28 16:39	7°Щ09'56	1.39955 AU	morning set	8889 May 04 03:48	8° 8 59'39	
				max. Earth dist.	8889 May 10 17:28	19° 8 36'26	1.42107 AU
superior conj	8888 Jun 05 10:28	20° Ⅲ 53′26			8889 May 16 21:49	$\Pi^{\circ}0$	
minimum elong	8888 Jun 05 16:06	21° Ⅱ 19'11	1°31'22				
	8888 Jun 10 07:59	0.22 0.22		superior conj	8889 May 18 05:25	2° Ⅱ 16'10	
evening rise	8888 Jun 15 04:45	9° © 15'43		minimum elong	8889 May 18 11:06	2° ∏ 40'46	1°57'00
asc. node	8888 Jun 16 05:09	11° © 11'52		evening rise	8889 May 29 08:42	22° Ⅱ 09'48	
	8888 Jun 27 01:05	0° Ω	10000150		8889 Jun 02 16:32	0.20	
evening max el	8888 Jul 01 06:21	5° Ω 07'18	18°29'58	asc. node	8889 Jun 03 02:10	0°542'57	10000120
retrograde	8888 Jul 08 23:43	8° £ 58'33		evening max el	8889 Jun 14 16:26	17°957'25	18°08'38
evening set	8888 Jul 11 02:33 8888 Jul 18 18:44	8° Ω 42'03	0024120	retrograde	8889 Jun 21 12:32	21°525'28	
inferior conj		4° Ω 11'44		evening set	8889 Jun 23 23:06	20°959'26	1952104
minimum elong desc. node	8888 Jul 18 19:58	4°Ω09'19 2°Ω40'21	0°33'48	inferior conj	8889 Jun 30 20:48	16°508'44	1°52'04 1°50'57
	8888 Jul 20 16:58		0.57007 ATT	minimum elong	8889 Jun 30 23:42	16°502'04	
min. Earth dist.	8888 Jul 22 02:53	1° Ω 35'11	0.57887 AU	min. Earth dist.	8889 Jul 04 04:22	13°907'55	0.60087 AU
morning rise	8888 Jul 24 09:32 8888 Jul 26 09:50	30° ₹ॐ 28° ॐ 51'13		morning rise	8889 Jul 07 21:26 8889 Jul 07 14:02	10°519'55	
morning rise direct	8888 Aug 01 08:19	28°931'13 27°920'55		desc. node direct	8889 Jul 14 09:27	10° © 31'33 8° © 18'29	
direct	8888 Aug 09 12:23	27 3 20 33		morning max el	8889 Jul 28 17:28	16°©13'25	27°44'56
morning max el	8888 Aug 15 17:27	4° Ω 59'35	26°56'42	morning max er	8889 Aug 09 00:36	0°Ω	44 30
morning max ci	8888 Sep 03 01:59	0°M)	20 30 42		8889 Aug 26 14:43	0°m)	
asc. node	8888 Sep 12 04:49	0 10/10/10 17°10/10		morning set	8889 Aug 29 21:49	6° Mp 42'50	
morning set	8888 Sep 14 16:00	22° mp 18'12		asc. node	8889 Aug 30 01:43	7° My 03'12	
morning set	8888 Sep 18 05:28	0° ت		max. Earth dist.	8889 Sep 05 02:37	20° Mp 04'56	1.31654 AU
	5000 Бер 10 05.20	~ _		max. Darui dist.	3007 Бер 03 02.37	20 mg 0 ∓ 20	1.51057 AU
superior conj	8888 Sep 21 14:48	7° £ 30'01	1°22'34	superior conj	8889 Sep 06 02:11	22° m/15'14	1°05'55
minimum elong	8888 Sep 21 12:42	7° ⊆ 18'20	1°22'20	minimum elong	8889 Sep 05 23:57	22° m 02'52	1°05'30
max. Earth dist.	8888 Sep 21 17:01	7° ⊆ 42'23	1.31644 AU		8889 Sep 09 14:09	0° ي 0° ي	1 00 00
William	17.01	. — 12 23			p 0, 11.0)	- -	

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evening rise	8889 Sep 12 19:54	7° ჲ 03'01			8890 Sep 01 06:14	0∘ ত	
<i>5</i>	8889 Sep 24 16:32	0°M		desc. node	8890 Sep 20 09:46	29° £ 59'00	
desc. node	8889 Oct 03 12:38	13°ML15'09			8890 Sep 20 10:09	o°M.	
evening max el	8889 Oct 10 11:14	21°M05'23	25°42'25	evening max el	8890 Sep 22 00:06	1°M35'46	24°10'54
retrograde	8889 Oct 24 09:21	28°ML07'35		retrograde	8890 Oct 05 17:03	8° M 27'47	
evening set	8889 Oct 30 12:57	26°M39'21		evening set	8890 Oct 10 15:19	7° M 34'22	
min. Earth dist.	8889 Nov 03 23:45	24°M02'49	0.57976 AU	min. Earth dist.	8890 Oct 16 10:49	4°M40'24	0.56201 AU
inferior conj	8889 Nov 07 01:00	21°M53'57	-5°07'15	inferior conj	8890 Oct 18 19:37	3°M12'53	-5°37'12
minimum elong	8889 Nov 07 07:31	21° M 42'27	5°05'55	minimum elong	8890 Oct 18 20:56	3°M10'51	5°37'02
morning rise	8889 Nov 15 04:24	17° M 33'46			8890 Oct 24 18:28	30° ₽ Ω	
direct	8889 Nov 17 11:57	17° M 16'58		morning rise	8890 Oct 27 04:37	29° £ 13'36	
morning max el	8889 Nov 26 02:00	21°M25'35	18°46'41	direct	8890 Oct 29 20:59	28° ≙ 54'48	
asc. node	8889 Nov 26 01:30	21°M24'21			8890 Nov 03 16:37	0° M	
	8889 Dec 02 17:36	0° ∡		morning max el	8890 Nov 08 20:08	3°M37'12	19°47'55
morning set	8889 Dec 12 09:47	17° ∡ 36′59		asc. node	8890 Nov 12 22:28	8°M15'32	
	8889 Dec 18 18:16	0°ರ			8890 Nov 25 11:59	0° ∡	
				morning set	8890 Nov 26 13:47	2° ҂ 09'55	
superior conj	8889 Dec 20 23:53	4° る 15'42	1°07'26				
minimum elong	8889 Dec 21 03:11	4° ප 31'18	1°07'15	superior conj	8890 Dec 04 09:26	17° ∡ 758'31	1°26'23
max. Earth dist.	8889 Dec 28 03:35		1.39512 AU	minimum elong	8890 Dec 04 12:00	18° ∤ 11'18	1°26'22
desc. node	8889 Dec 30 11:32	21° る 24'21		max. Earth dist.	8890 Dec 10 09:46	29° х 34′18	1.37350 AU
evening rise	8890 Jan 01 03:07	24°る13'21			8890 Dec 10 15:17	0°ප	
	8890 Jan 04 14:23	0° ≈		evening rise	8890 Dec 14 03:30	6° る 24'10	
	8890 Jan 24 18:57	0° ℋ		desc. node	8890 Dec 17 08:32	12° る 01'54	
evening max el	8890 Feb 05 04:41	13° ∺ 31'53	24°12'34		8890 Dec 28 11:57	0° ≈	
retrograde	8890 Feb 16 10:31	20° ∺ 07'32		evening max el	8891 Jan 18 17:56	27° ≈ 20′15	25°27'30
evening set	8890 Feb 21 18:57	17° ∺ 53'38			8891 Jan 21 16:18	0° ∀	
asc. node	8890 Feb 22 00:30	17°) 41'35		retrograde	8891 Jan 30 22:37	4° ∺ 21'38	
min. Earth dist.	8890 Feb 26 11:22	12°) 30′44	0.68179 AU	evening set	8891 Feb 05 19:43	1° ¥ 56′01	
inferior conj	8890 Feb 27 06:50	11° ∺ 25′05	1°38'44		8891 Feb 07 19:27	30° Ŗ ≈	
minimum elong	8890 Feb 27 04:50	11° ∺ 31'48	1°38'07	asc. node	8891 Feb 08 21:37	28° ≈ 44'58	
morning rise	8890 Mar 04 14:47	5° ∺ 23'27		min. Earth dist.	8891 Feb 10 04:55	27° ≈ 07'58	0.67487 AU
direct	8890 Mar 08 13:10	3° ¥ 55′22		inferior conj	8891 Feb 11 11:55	25° ≈ 28'17	0°50'42
morning max el	8890 Mar 16 06:57	8° 升 17'48	20°13'42	minimum elong	8891 Feb 11 10:43	25° ≈ 32'11	0°50'23
desc. node	8890 Mar 28 11:25	23° ¥ 50′53		morning rise	8891 Feb 17 02:05	19° ≈ 34'55	
	8890 Apr 01 16:36	0° Υ		direct	8891 Feb 20 12:23	18° ≈ 27'22	
morning set	8890 Apr 13 04:45	17° Y 25′29		morning max el	8891 Feb 27 11:57	22°≈17'49	19°12'29
	8890 Apr 21 05:28	0°8			8891 Mar 05 21:08	0° ∀	
max. Earth dist.	8890 Apr 23 01:57	2° 8 57'23	1.43882 AU	greatest brilliancy	8891 Mar 12 16:07	9°) (49'40	-0.7m
				desc. node	8891 Mar 15 08:19	13° ¥ 52′26	
superior conj	8890 Apr 29 00:26	12° 8 35'29		morning set	8891 Mar 23 05:42	26°) €00'02	
minimum elong	8890 Apr 29 02:32	12° 8 44'07	2°11'22		8891 Mar 25 19:42	0° Υ	
	8890 May 09 08:12	0°II		max. Earth dist.	8891 Apr 05 17:12	170.4.00.17	1.45073 AU
evening rise	8890 May 11 19:18	4° Ⅱ 15'25			0001 4 00 10 40	2100055104	2007145
asc. node	8890 May 20 23:13	19° I 52'41		superior conj	8891 Apr 08 19:49	21° Y 55'04	
	8890 May 28 02:56	0°95	10007122	minimum elong	8891 Apr 08 14:55	21° Y 35'38	2°07'39
evening max el	8890 May 29 05:38	1°9510'25	18°06'33		8891 Apr 13 21:19	0°8	
retrograde	8890 Jun 04 15:43	4°930'53		evening rise	8891 Apr 23 08:08	15° 8 24'07 0° Ⅱ	
evening set	8890 Jun 07 09:52	3°©52'44			8891 May 02 05:42		
inforier con:	8890 Jun 12 10:35 8890 Jun 13 16:43	30°Ŗ Ⅱ 28° Ⅱ 42'35	2042152	asc. node	8891 May 07 20:18	8° Д 33'25 14° Д 37'21	18°22'57
inferior conj				evening max el	8891 May 12 18:41	14° Д 3/21 18° Д 04'29	18-22-57
minimum elong	8890 Jun 13 19:22	28°Ⅲ35'36 25°Ⅲ41'35	2°42'05 0.62325 AU	retrograde	8891 May 19 04:44	18°Щ04'29 17°Щ12'43	
min. Earth dist.	8890 Jun 16 14:21		0.62323 AU	evening set	8891 May 22 06:16	17 П 1243	2011112
morning rise	8890 Jun 20 03:01	22° II 36'00		inferior conj	8891 May 28 02:17		3°11'12
desc. node	8890 Jun 24 11:05	20° Ⅲ 27'21 20° Ⅲ 09'03		minimum elong min. Earth dist.	8891 May 28 03:50	11° П 40'15 9° П 03'58	3°10'48 0.64362 AU
direct	8890 Jun 26 20:51	20 H 0903 28° H 11'04	27055105		8891 May 30 09:40	9 П03 38 5°П29'00	0.04302 AU
morning max el	8890 Jul 10 23:26 8890 Jul 12 17:22	28° ш 11'04 0° ©	41 33 03	morning rise direct	8891 Jun 03 00:22 8891 Jun 09 16:42	2° П 46'47	
		0.℃ 0.≈		desc. node		2°Щ46'47 2°Щ55'36	
morning set	8890 Aug 02 20:02	0°87 20° Ω 48'29			8891 Jun 11 08:08	2°Щ55'36 10°Щ46'11	27020117
morning set	8890 Aug 13 21:58			morning max el	8891 Jun 23 09:07	10° ய 46'11 0° ©	21 2841
asc. node	8890 Aug 16 22:38	27° Ω 05'02			8891 Jul 08 12:54		
mov Fd- U	8890 Aug 18 07:35	0°Щ 2°т 15142	1 22120 411		8891 Jul 26 06:43	0°Ω 4°Ω27'06	
max. Earth dist.	8890 Aug 19 08:51	15'42 إليا 1	1.32139 AU	morning set	8891 Jul 28 13:52	4° Ω 27'06	1 22105 411
gunariar car:	9900 Aug 21 11:24	60 m 50101	0.044120	max. Earth dist.	8891 Aug 02 07:45	14° Ω 03'05	1.33105 AU
superior conj	8890 Aug 21 11:24	6° Mp 50'21	0°44'30	asc. node	8891 Aug 03 19:35	17° Ω 10′29	
minimum elong	8890 Aug 21 09:33	6° Mp 40'13	0°44'02		9901 A 05 16 25	210 00002	0010145
evening rise	8890 Aug 28 07:19	21° M 44'44		superior conj	8891 Aug 05 16:27	21° Ω 08'26	0°18'45

minimum elong	8891 Aug 05 15:32	21° Ω 03'33	0°18'23		8892 Jul 17 03:38	0 ° Ω	
	8891 Aug 09 19:18	0°M)			0002 1 1 10 15 02	50 002142	0010120
evening rise	8891 Aug 12 18:40 8891 Aug 25 07:01	6° Mp 22'19 0° <u> </u>		superior conj minimum elong	8892 Jul 19 15:03 8892 Jul 19 15:39	5° Ω 03'43 5° Ω 06'50	-0°10'38 0°10'43
evening max el	8891 Sep 03 11:49	0 == 11° £ 46'24	22031112	behind sun begin	8892 Jul 19 11:16	4°Ω44'09	0 1043
desc. node	8891 Sep 07 06:55	14° £ 58'38	22 31 12	behind sun end	8892 Jul 19 20:03	5° Ω 29'33	
retrograde	8891 Sep 16 12:40	18° ≏ 16'28		asc. node	8892 Jul 20 16:34	7° Ω 15'58	
evening set	8891 Sep 19 22:44	17° £ 50'43		evening rise	8892 Jul 27 04:02	20° Ω 50'31	
min. Earth dist.	8891 Sep 27 18:48	14° £ 22'23	0.55008 AU	Č	8892 Jul 31 16:20	0° m/y	
inferior conj	8891 Sep 28 20:15	13° ≏ 46′21	-5°19'28	evening max el	8892 Aug 15 07:40	22° m/ 14'32	20°59'19
minimum elong	8891 Sep 28 13:53	13° ≏ 55'22	5°18'34	desc. node	8892 Aug 24 04:04	27° m 42'44	
morning rise	8891 Oct 07 06:54	9° £ 58'38		retrograde	8892 Aug 27 01:10	28° Mp 03'23	
direct	8891 Oct 10 12:22	9° ჲ 35'00		evening set	8892 Aug 29 07:23	27° m 51'17	
morning max el	8891 Oct 22 01:10	14° ≙ 59'41	21°11'18	inferior conj	8892 Sep 07 12:38	23° m 54'44	-4°06'19
asc. node	8891 Oct 30 19:26	26° ჲ 03'54		minimum elong	8892 Sep 07 02:59	24° Mp 08'23	4°03'36
	8891 Nov 02 04:36	0°M₊		min. Earth dist.	8892 Sep 08 03:32	23° Mp 33'36	0.54670 AU
morning set	8891 Nov 10 22:22	16°M54'03		morning rise	8892 Sep 15 22:53	19° m 59'12	
	8891 Nov 17 04:25	0°⊀		direct	8892 Sep 19 20:15	19° m 26'43	
	0001 N 10 05 46	20 711127	1027116	morning max el	8892 Oct 02 18:52	25° m 37'59	22°51'56
superior conj	8891 Nov 18 05:46	2° ҂ 11'36 2° ҂ 18'37			8892 Oct 06 21:10	0° ჲ 14° ჲ 36'05	
minimum elong max. Earth dist.	8891 Nov 18 07:07 8891 Nov 22 19:44	11° × ⁷ 28'46	1°37'24 1.35375 AU	asc. node	8892 Oct 16 16:24	0°M	
evening rise	8891 Nov 26 21:48	11 x ·2846 19° x 22'04	1.55575 AU	morning set	8892 Oct 24 13:50 8892 Oct 25 09:25	1°M43'04	
evening rise	8891 Dec 02 18:49	19 メ ・22 04 0°る		morning set	8892 Oct 23 09.23	1 11643 04	
desc. node	8891 Dec 04 05:35	2° る 29'39		superior conj	8892 Nov 01 09:32	16° M 44'50	1°40'59
dese. node	8891 Dec 22 13:59	0°≈		minimum elong	8892 Nov 01 09:36	16°M45'13	1°41'09
evening max el	8892 Jan 01 07:09	11°≈05'21	26°30'08	max. Earth dist.	8892 Nov 04 13:10	23°M24'19	1.33754 AU
retrograde	8892 Jan 14 05:38	18° ≈ 21'56			8892 Nov 07 18:29	0°⊀	
evening set	8892 Jan 20 14:44	15° ≈ 48′21		evening rise	8892 Nov 09 06:11	2° ∡ ′57'23	
min. Earth dist.	8892 Jan 24 17:34	11° ≈ 34'58	0.66411 AU	desc. node	8892 Nov 20 02:39	22° ∡ ¹41'59	
inferior conj	8892 Jan 26 12:16	9° ≈ 26'42	-0°05'23		8892 Nov 24 15:15	5°0	
minimum elong	8892 Jan 26 12:24	9° ≈ 26'17	0°05'07	evening max el	8892 Dec 13 20:10	24° る 38'25	27°13'09
transit middle	8892 Jan 26 12:24	9° ≈ 26'17	0°05'07		8892 Dec 20 17:31	0° ≈	
transit begin	8892 Jan 26 09:39	9° ≈ 34'34		retrograde	8892 Dec 27 06:49	1° ≈ 59'56	
transit end	8892 Jan 26 15:09	9° ≈ 18'00		_	8893 Jan 02 06:07	30°Rる	
asc. node	8892 Jan 26 18:43	9°≈07'17		evening set	8893 Jan 03 01:49	29°る24'24	0.64000.477
morning rise	8892 Feb 01 10:58	3°≈43'44		min. Earth dist.	8893 Jan 06 23:10	25° ~ 44'33	0.64980 AU
direct	8892 Feb 04 10:39	2°≈53'43 6°≈24'51	10027110	inferior conj	8893 Jan 09 05:31	23°る14'47 23°る09'05	
morning max el	8892 Feb 10 23:46 8892 Feb 27 13:49	0° X	18°27'18	minimum elong asc. node	8893 Jan 09 07:35 8893 Jan 12 15:50	23° る 09'03	1 0 / 44
desc. node	8892 Mar 01 05:13	4° ∺ 11'42		morning rise	8893 Jan 15 14:50	19 3 4309	
morning set	8892 Mar 02 04:40	5° H 44'50		direct	8893 Jan 18 05:45	17°る4430	
morning sec	8892 Mar 17 14:04	0°Υ		morning max el	8893 Jan 24 15:54	20° ට 31'16	17°58'48
					8893 Jan 31 22:26	0° ≈	
superior conj	8892 Mar 18 01:41	0° Ƴ 45′27	-1°44'03	morning set	8893 Feb 11 09:05	16° ≈ 56'59	
minimum elong	8892 Mar 17 16:10	0° Υ 08'13	1°43'11	desc. node	8893 Feb 16 02:07	24° ≈ 42'58	
max. Earth dist.	8892 Mar 18 12:03	1° Y 25'59	1.45551 AU		8893 Feb 19 07:52	0°) €	
evening rise	8892 Apr 02 21:26	25° Y 36'08					
	8892 Apr 05 16:12	9° 8		superior conj	8893 Feb 25 12:22	9° ¥ 55'57	-1°05'02
greatest brilliancy	8892 Apr 12 10:44	10° 8 38'58	-0.8m	minimum elong	8893 Feb 25 04:59	9° ∺ 26'36	
asc. node	8892 Apr 23 17:25	26° 8 36'31		max. Earth dist.	8893 Mar 01 07:30		1.45286 AU
evening max el	8892 Apr 25 05:04	28° 8 12'38	18°57'04		8893 Mar 10 08:13	0°Υ 5° 00 ° 512 5	
	8892 Apr 27 04:51	0°II		evening rise	8893 Mar 13 15:26	5°Υ05'35	0.6
retrograde	8892 May 01 23:48	1° П 59'13 0° П 53'01		greatest brilliancy	8893 Mar 27 18:21 8893 Mar 30 03:37	26° Ƴ 31'46 0° ႘	-0.6m
evening set	8892 May 05 08:57 8892 May 06 13:09	0 Д3301 30° Ŗ		evening max el	8893 Apr 08 10:53	11° 8 51'24	19°47'37
inferior conj	8892 May 10 21:49	25° 8 09'00	3°21'38	asc. node	8893 Apr 10 14:34	13° 8 49'33	1/ 7/3/
minimum elong	8892 May 10 22:04	25° 8 08'13	3°21'26	retrograde	8893 Apr 15 21:46	16° 8 08'08	
min. Earth dist.	8892 May 12 13:57	23° 8 02'15	0.66045 AU	evening set	8893 Apr 19 15:19	14° 8 46'56	
morning rise	8892 May 16 10:38	18° 8 50'04		inferior conj	8893 Apr 25 00:06	8° 8 48'40	3°17'54
direct	8892 May 22 19:55	16° 8 04'11		minimum elong	8893 Apr 24 23:12	8° 8 51'39	3°17'41
desc. node	8892 May 28 05:08	17° 8 39'33		min. Earth dist.	8893 Apr 26 01:30	7° 8 23'41	0.67300 AU
morning max el	8892 Jun 04 19:48	23° 8 48'01	26°32'22	morning rise	8893 Apr 30 06:46	2° 8 30'24	
	8892 Jun 10 08:37	$\Pi^{\circ}0$			8893 May 04 19:30	30° ₹Ƴ	
	8892 Jun 30 21:55	0ංම		direct	8893 May 06 05:14	29° Y 51'39	
morning set	8892 Jul 10 18:20	17° © 30'39			8893 May 07 16:07	0° 8	
max. Earth dist.	8892 Jul 14 20:18	25° © 23'28	1.34561 AU	desc. node	8893 May 15 02:06	4° 8 07'32	

morning max el	8893 May 18 05:33	7° 8 04'01	25°15'01	morning max el	8894 Apr 30 14:38	20° Ƴ 27'20	23°46'55
morning max er	8893 Jun 05 01:35	0°II	23 13 01	desc. node	8894 May 01 23:02	21° Υ '51'49	25 40 55
morning set	8893 Jun 23 07:06	29° ∏ 47'44		dese. Hode	8894 May 08 18:36	0°8	
morning sec	8893 Jun 23 09:50	0.0			8894 May 29 06:33	0°II	
max. Earth dist.	8893 Jun 26 22:17		1.36458 AU	morning set	8894 Jun 04 22:51	11° I I03'56	
				max. Earth dist.	8894 Jun 08 18:40		1.38656 AU
superior conj	8893 Jul 03 04:21	18° 5 29'09	-0°42'23		8894 Jun 15 12:41	0°9	
minimum elong	8893 Jul 03 06:57	18°5542'02	0°42'07				
asc. node	8893 Jul 07 13:35	27°9517'44		superior conj	8894 Jun 16 04:44	1°915'24	-1°14'28
	8893 Jul 08 21:30	$0^{\circ}\Omega$		minimum elong	8894 Jun 16 09:26	1° 9 37'34	1°13'58
evening rise	8893 Jul 11 09:11	5° Ω 03'14		asc. node	8894 Jun 24 10:36	17° © 11'21	
	8893 Jul 25 16:26	0° ™		evening rise	8894 Jun 25 07:22	18° © 52'51	
evening max el	8893 Jul 28 16:49	3°Mp24'38	19°45'00		8894 Jul 01 03:26	$0^{\circ}\Omega$	
retrograde	8893 Aug 07 17:22	8° m 21'43		evening max el	8894 Jul 11 14:25	15° Ω 19'28	18°51'21
evening set	8893 Aug 09 13:51	8° ™ 12'19		retrograde	8894 Jul 20 00:52	19° Ω 30'38	
desc. node	8893 Aug 11 01:11	7° ™ 52'10		evening set	8894 Jul 22 00:05	19° Ω 17'50	
inferior conj	8893 Aug 18 11:17	4°Mp10'17		desc. node	8894 Jul 28 22:18	15° Ω 50'58	
minimum elong	8893 Aug 18 05:05	~		inferior conj	8894 Jul 30 03:40	14° Ω 59'00	
min. Earth dist.	8893 Aug 20 14:54	2° m 50'30	0.55297 AU	minimum elong	8894 Jul 30 02:44	15° Ω 00'40	
	8893 Aug 26 04:10	30°R€		min. Earth dist.	8894 Aug 02 06:03	12° Ω 46'30	0.56772 AU
morning rise	8893 Aug 26 18:16	29° Ω 47'28		morning rise	8894 Aug 07 02:03	9° Ω 59'28	
direct	8893 Aug 31 10:41	28° Ω 58'56		direct	8894 Aug 12 14:26	8° Ω 46'24	26012122
	8893 Sep 05 15:22	0° m/y	2.402.011.0	morning max el	8894 Aug 26 21:00	16° Ω 10′28	26°13'23
morning max el	8893 Sep 14 07:08 8893 Oct 01 13:53	5°₯51'54 0° <u>乒</u>	24°38'10	asa mada	8894 Sep 07 03:13	0°M) 22°M-10!11	
asc. node	8893 Oct 01 13:33 8893 Oct 03 13:21	0 <u></u> 3° - 241'16		asc. node	8894 Sep 20 10:16	23°Mp10'11 0° ≏	
morning set	8893 Oct 09 21:13	16° £ 32'03		morning set	8894 Sep 23 17:49 8894 Sep 24 08:00	0 <u>₽</u> 1° ₽ 15'16	
morning set	8893 Oct 16 01:37	0°M		morning set	8894 Sep 24 08.00	1 = 13 10	
	0075 001 10 01.57	O IIG		superior conj	8894 Oct 01 05:10	16° ≏ 19'38	1°29'52
superior conj	8893 Oct 16 18:04	1° M 30'07	1°38'19	minimum elong	8894 Oct 01 03:20	16° ⊆ 09'31	1°29'45
minimum elong	8893 Oct 16 17:02	1°M24'28	1°38'23	max. Earth dist.	8894 Oct 01 22:16	17° ⊆ 54'19	1.31853 AU
max. Earth dist.	8893 Oct 18 14:45	5°M33'19		man. Darm dige.	8894 Oct 07 11:49	0°M	1.51055110
evening rise	8893 Oct 24 01:10	17°ML00'58		evening rise	8894 Oct 08 03:40	1°ML23'26	
	8893 Oct 30 17:38	0° ∡ ¹			8894 Oct 23 16:33	0° ∡ ″	
desc. node	8893 Nov 06 23:44	12° ₹ 32'03		desc. node	8894 Oct 24 20:50	1° × 749'46	
	8893 Nov 19 04:50	万 °0		evening max el	8894 Nov 08 15:01	20° ∡ ¹20'58	27°14'17
evening max el	8893 Nov 26 07:38	7° る 48'26	27°29'42	retrograde	8894 Nov 22 11:50	27° ∡ ³32′50	
retrograde	8893 Dec 10 01:17	15° る 06'57		evening set	8894 Nov 29 12:39	25° ҂ 19′20	
evening set	8893 Dec 17 02:18	12° る 37'36		min. Earth dist.	8894 Dec 03 05:40		0.61248 AU
min. Earth dist.	8893 Dec 20 19:46	9° る 28'07	0.63236 AU	inferior conj	8894 Dec 06 07:26	19° ∡ 52′07	-3°29'27
inferior conj	8893 Dec 23 13:00	6° る 46'23		minimum elong	8894 Dec 06 14:04	19° ∡ ³37'34	3°26'59
minimum elong	8893 Dec 23 17:25	6° ප 35'26	2°16'02	morning rise	8894 Dec 13 17:48	14° ∡ 756'45	
morning rise	8893 Dec 30 10:32	1° る 31'53		direct	8894 Dec 15 22:45	14° ∡ ³36'34	
asc. node	8893 Dec 30 12:53	1°る29'45		asc. node	8894 Dec 17 09:54	14° × 745'46	
direct	8894 Jan 01 18:59	1°る05'29	15045120	morning max el	8894 Dec 23 00:52	18° ∡ 10'34	17°54'50
morning max el	8894 Jan 08 09:21	4°る29'36	17°47'39	. ,	8894 Dec 31 12:48	0°る	
morning set	8894 Jan 24 15:21 8894 Jan 24 23:34	29° る 24'17		morning set	8895 Jan 07 16:49	12° る 45'44	
desc. node	8894 Jan 24 23:34 8894 Feb 02 23:03	0° ≈ 15° ≈ 22'28			8895 Jan 17 07:06	0° ≈	
dese. Houc	007 1 00 02 23.03	15 ~~44 40		superior conj	8895 Jan 18 04:14	1° ≈ 32'03	0°19'45
superior conj	8894 Feb 05 19:33	20° ≈ 07'29	-0°20'54	minimum elong	8895 Jan 18 05:55	1°≈32'03	0°19'43
minimum elong	8894 Feb 05 17:22	19°≈58'26		desc. node	8895 Jan 20 19:59	6°≈06'09	0 1772
minimum ciong	8894 Feb 11 21:26	0° ∀	0 20 23	max. Earth dist.	8895 Jan 25 15:42	14°≈10'16	1.42747 AU
max. Earth dist.	8894 Feb 12 01:21		1.44320 AU	evening rise	8895 Jan 31 22:26	24°≈16'57	
evening rise	8894 Feb 21 02:41	14°) €26'55			8895 Feb 04 14:27	0° ₩	
<u> </u>	8894 Mar 03 09:42	0°Υ			8895 Feb 25 10:22	0° Υ	
evening max el	8894 Mar 22 11:15	25° Ƴ 31'41	20°52'08	evening max el	8895 Mar 05 06:23	9° Ƴ 13'38	22°06'51
asc. node	8894 Mar 28 11:41	29° Y 58'21		retrograde	8895 Mar 14 17:37	14° Ƴ 50'01	
	8894 Mar 28 13:26	0°8		asc. node	8895 Mar 15 08:47	14° Y 48'00	
retrograde	8894 Mar 30 20:18	0° 8 26'25		evening set	8895 Mar 19 07:21	12° Ƴ 58'09	
	8894 Apr 02 00:35	30° ₹Ƴ		inferior conj	8895 Mar 24 15:04	6° Ƴ 37'44	2°37'07
evening set	8894 Apr 03 23:21	28° Ƴ 49'51		minimum elong	8895 Mar 24 12:54	6° Ƴ 45'18	2°36'34
inferior conj	8894 Apr 09 06:34	22° Y 39'15	3°02'32	min. Earth dist.	8895 Mar 24 14:05	6° Y 41'10	0.68465 AU
minimum elong	8894 Apr 09 04:50	22° Y 45'13	3°02'09	morning rise	8895 Mar 29 18:17	0° Υ 26'51	
min. Earth dist.	8894 Apr 09 18:16	21°Υ58'50	0.68106 AU		8895 Mar 30 07:29	30° ₹	
morning rise	8894 Apr 14 10:06	16° Υ 23'59		direct	8895 Apr 03 13:49	28° ¥ 24′02	
direct	8894 Apr 19 19:34	14° Y 00′39			8895 Apr 08 07:17	0 ° Υ	

morning max el	8895 Apr 13 01:53	3° Y 58'51	22°17'50	direct	8896 Mar 17 10:59	12° ¥ 54'47	
desc. node	8895 Apr 18 19:57	10° Ƴ 31'33		morning max el	8896 Mar 25 18:43	17°) (41′10	20°55'39
	8895 May 02 21:45	$_{0\circ}$ 8		desc. node	8896 Apr 04 16:51	29° ∺ 51′03	
morning set	8895 May 16 12:34	21° 8 07'13			8896 Apr 04 19:27	$0^{\circ}\mathbf{\Upsilon}$	
max. Earth dist.	8895 May 21 17:01	29° 8 41'40	1.40905 AU	morning set	8896 Apr 24 23:59	29° Y 59'32	
	8895 May 21 21:22	$\Pi^{\circ}0$		Č	8896 Apr 25 00:07	0° ႘	
	00,01,14, 21 21.22	· -		max. Earth dist.	8896 May 02 21:26		1.42923 AU
superior conj	8895 May 29 11:49	13° Ⅱ 12'09	10/13/37	max. Larm dist.	0000 May 02 21.20	12 033 30	1.42)23 110
	•				0006 M 00 20-52	24° 8 08'15	2004157
minimum elong	8895 May 29 17:47	13° Ⅱ 38'51	1-43-12	superior conj	8896 May 09 20:53		
	8895 Jun 07 15:15	0		minimum elong	8896 May 10 01:35	24° 8 28'08	2°04'53
evening rise	8895 Jun 08 19:12	2° © 10'48			8896 May 13 07:10	Π $^{\circ}0$	
asc. node	8895 Jun 11 07:37	6° © 52'32		evening rise	8896 May 21 16:23	14° ∏ 45'59	
evening max el	8895 Jun 24 21:02	27° © 52'20	18°18'25	asc. node	8896 May 28 04:39	26° Ⅱ 15′29	
	8895 Jun 27 11:14	$0^{\circ}\Omega$			8896 May 30 10:03	0 \circ \odot	
retrograde	8895 Jul 02 03:50	1° Ω 31'51		evening max el	8896 Jun 07 08:47	10° © 52'55	18°05'21
evening set	8895 Jul 04 09:59	1° Ω 11'35		retrograde	8896 Jun 13 23:30	14° © 16'17	
evening sec	8895 Jul 07 02:08	30° ₹ 55		evening set	8896 Jun 16 13:13	13°545'27	
inforior coni	8895 Jul 11 17:54	26°932'10	1°10'49	inferior conj	8896 Jun 23 04:06	8° 9 46'08	2°16'40
inferior conj				3			
minimum elong	8895 Jul 11 20:08	26°927'26	1°09'50	minimum elong	8896 Jun 23 07:04	8°938'54	2°15'39
min. Earth dist.	8895 Jul 15 03:06	23° © 42'42	0.58801 AU	min. Earth dist.	8896 Jun 26 08:10	5° © 42'23	0.61049 AU
desc. node	8895 Jul 15 19:22	23° © 10'54		morning rise	8896 Jun 29 22:26	2°5948'10	
morning rise	8895 Jul 19 03:01	20° © 58'26		desc. node	8896 Jul 01 16:26	1° © 47'07	
direct	8895 Jul 25 08:01	19° © 15'04		direct	8896 Jul 06 13:39	0°535'00	
morning max el	8895 Aug 08 17:14	27° © 00'57	27°21'49	morning max el	8896 Jul 20 20:17	8° © 34'31	27°53'58
	8895 Aug 11 13:40	$0^{\circ}\Omega$			8896 Aug 06 06:37	$0^{\circ}\Omega$	
	8895 Aug 31 16:38	O° Mp		morning set	8896 Aug 22 19:52	0° m 05'46	
asc. node	8895 Sep 07 07:13	12° m 56'21		morning sec	8896 Aug 22 18:45	0° m)	
morning set	8895 Sep 08 16:11	15° Mp 48'20		asc. node	8896 Aug 24 04:09	2° Mp 53'48	
morning set	•				-		1 21001 ATT
	8895 Sep 15 04:42	0∘ ত		max. Earth dist.	8896 Aug 28 17:01	12° m 39'05	1.31801 AU
superior conj	8895 Sep 15 16:56			superior conj	8896 Aug 30 03:37	15° Mp 49'17	0°57'23
minimum elong	8895 Sep 15 14:43	0° ჲ 55'35	1°15'47	minimum elong	8896 Aug 30 01:29	15° m 37'30	0°56'55
max. Earth dist.	8895 Sep 15 08:20	0° ჲ 20'10	1.31597 AU	evening rise	8896 Sep 05 21:48	0° ჲ 38'32	
evening rise	8895 Sep 22 11:15	15° ≏ 58'04			8896 Sep 05 14:38	0∘ ত	
	8895 Sep 29 09:52	0°M			8896 Sep 21 19:13	0°M	
desc. node	8895 Oct 11 17:57	20°M22'30		desc. node	8896 Sep 27 15:05	7°M52'49	
	8895 Oct 19 13:34	0° √		evening max el	8896 Oct 02 07:44	12° M 57'49	25°05'31
evening max el	8895 Oct 21 15:28	2° × 104'40	26°24'46	retrograde	8896 Oct 16 04:37	19°M57'20	20 00 31
•	8895 Nov 04 13:25	9° ₹ 10'22	20 24 40	•	8896 Oct 21 21:16	18°M43'44	
retrograde				evening set			0.57163 AU
evening set	8895 Nov 11 04:30	7° ₹ 22'48	0.50151.477	min. Earth dist.	8896 Oct 26 19:22		
min. Earth dist.	8895 Nov 15 04:47	4° ≯ 48'11	0.59151 AU	inferior conj	8896 Oct 29 15:39	14°M08'56	
inferior conj	8895 Nov 18 09:18	2° ≯ 22'27		minimum elong	8896 Oct 29 20:32	14°M00'49	5°23'54
minimum elong	8895 Nov 18 16:46	2° ₹ 08'11	4°33'56	morning rise	8896 Nov 06 22:06	9° ™ 58'37	
	8895 Nov 21 16:19	30°RM₊		direct	8896 Nov 09 08:36	9° ™ 41'27	
morning rise	8895 Nov 26 07:26	27° M 49'21		morning max el	8896 Nov 18 12:00	14°M03'06	19°10'05
direct	8895 Nov 28 12:42	27°M32'10		asc. node	8896 Nov 20 03:54	15°M46'44	
asc. node	8895 Dec 04 06:54	29°M35'11			8896 Nov 29 13:17	0° ∡ ¹	
	8895 Dec 04 20:11	0° ∡ 7		morning set	8896 Dec 05 07:56	11° ₹ 07'16	
morning max el	8895 Dec 06 10:57	1° ≯ ¹25'00	18°21'46	<i>5</i>			
morning set	8895 Dec 22 07:45	26° х 44′03		superior conj	8896 Dec 13 13:21	27° ₹ 22'16	1°16'31
morning set	8895 Dec 24 00:46	20 メ 44 03 0°る		minimum elong	8896 Dec 13 15:21		1°16'23
	8893 Dec 24 00.40	0.0		minimum ciong			1 10 23
	000575 21 11 10	140701140	00.5010.5	P. 4. P.	8896 Dec 14 22:13	0°る	1.00550 111
superior conj	8895 Dec 31 11:49	14° る 01'40		max. Earth dist.	8896 Dec 20 06:53	9° る 57'26	1.38572 AU
minimum elong	8895 Dec 31 15:03	14° る 16'28	0°52'21	evening rise	8896 Dec 24 01:33	16° る 38'24	
desc. node	8896 Jan 07 16:55	26° る 50'22		desc. node	8896 Dec 24 13:55	17° る 31'51	
max. Earth dist.	8896 Jan 08 01:07	27° る 25'31	1.40749 AU		8897 Jan 01 02:40	0° ≈	
	8896 Jan 09 13:26	0° ≈			8897 Jan 22 08:16	0°) €	
evening rise	8896 Jan 12 13:01	4°≈58'25		evening max el	8897 Jan 28 10:58	6°) 44'49	24°45'29
Č	8896 Jan 28 19:25	0°) €		retrograde	8897 Feb 09 03:19	13°) €33'36	
evening max el	8896 Feb 15 21:35	22°) 57'34	23°26'43	evening set	8897 Feb 14 17:06	11°) 14'15	
retrograde	8896 Feb 26 12:19	29° H 13'59	25 20 75	asc. node	8897 Feb 16 02:59	9° X 53'37	
•							0.67025 411
asc. node	8896 Mar 01 05:53	28° X 06'09		min. Earth dist.	8897 Feb 19 06:12	6°) €06'08	0.67925 AU
evening set	8896 Mar 02 13:46	27°) (07'29	2002122	inferior conj	8897 Feb 20 06:38	4°) (45'08	1°19'23
inferior conj	8896 Mar 07 23:41	20°) (40′35		minimum elong	8897 Feb 20 04:55	4°) € 50'52	1°18'52
minimum elong	8896 Mar 07 21:30	20°) 48′07			8897 Feb 24 06:05	30°R≈	
min. Earth dist.	8896 Mar 07 10:46		0.68397 AU	morning rise	8897 Feb 25 16:56	28° ≈ 46'48	
morning rise	8896 Mar 13 05:12	14° ₩ 35'17		direct	8897 Mar 01 09:54	27° ≈ 27'56	

	8897 Mar 07 01:11	0° }{		direct	8898 Feb 13 09:01	11° ≈ 57'44	
morning max el	8897 Mar 08 19:14	1°) (35′37	19°45'48	morning max el	8898 Feb 20 03:17	11 ≈37 44 15°≈38'51	18°51'12
greatest brilliancy	8897 Mar 21 14:36	18°) 14'47	-0.6m	morning max ci	8898 Mar 03 00:47	0° \	18 31 12
desc. node	8897 Mar 22 13:45	19°) (39'51	-0.0111	desc. node	8898 Mar 09 10:39	9°) (49'31	
dese. Hode	8897 Mar 29 11:02	0° Υ		morning set	8898 Mar 14 06:07	17°) 19'01	
morning set	8897 Apr 03 21:51	8° Υ 20'28		morning set	8898 Mar 22 09:08	0°Υ	
max. Earth dist.	8897 Apr 15 08:33	26°Υ13'05	1.44467 AU	max. Earth dist.	8898 Mar 29 01:16	10° Υ 26'15	1.45366 AU
max. Latur dist.	8897 Apr 17 17:30	0°8	1.44407 110	max. Lartii dist.	0070 Will 27 01.10	10 12013	1.43300710
	0057 Hpt 17 17.50	° O		superior conj	8898 Mar 30 17:14	13° Y 03'04	-2°00'05
superior conj	8897 Apr 20 05:24	4° 8 00'46	-2°12'13	minimum elong	8898 Mar 30 09:39	12° Υ 33'15	
minimum elong	8897 Apr 20 04:44	3° 8 58'05			8898 Apr 10 09:41	0°8	
evening rise	8897 May 03 18:15	26° 8 28'29		evening rise	8898 Apr 14 20:59	7° 8 12'00	
Č	8897 May 05 20:06	0°II		Č	8898 Apr 29 07:01	0° I I	
asc. node	8897 May 15 01:43	15° Ⅱ 14'07		asc. node	8898 May 01 22:49	3° ∏ 40′25	
evening max el	8897 May 21 22:17	24° ∏ 12'53	18°11'16	evening max el	8898 May 05 10:35	7° Ⅱ 44'45	18°35'25
retrograde	8897 May 28 07:21	27° Ⅱ 34'39		retrograde	8898 May 11 23:16	11° Ⅱ 18′23	
evening set	8897 May 31 04:34	26° Ⅱ 51′01		evening set	8898 May 15 04:01	10° Ⅲ 20′35	
inferior conj	8897 Jun 06 06:21	21° Ⅱ 33'18	2°57'19	inferior conj	8898 May 20 20:36	4° Ⅱ 45'52	3°17'32
minimum elong	8897 Jun 06 08:36	21° II 27'07	2°56'42	minimum elong	8898 May 20 21:35	4° Ⅱ 42'52	3°17'14
min. Earth dist.	8897 Jun 08 22:20	18° Ⅱ 38′24	0.63231 AU	min. Earth dist.	8898 May 22 21:35	2° Ⅱ 18′06	0.65131 AU
morning rise	8897 Jun 12 11:07	15° Ⅲ 21'41			8898 May 24 23:19	30°₹ ႘	
desc. node	8897 Jun 18 13:30	12° ∐ 47'52		morning rise	8898 May 26 14:23	28° 8 28'22	
direct	8897 Jun 19 05:09	12° ∐ 46′30		direct	8898 Jun 02 04:29	25° 8 42'54	
morning max el	8897 Jul 03 04:13	20° Ⅱ 49'36	27°47'54	desc. node	8898 Jun 05 10:31	26° 8 17'42	
	8897 Jul 11 02:11	0 \circ \odot			8898 Jun 11 15:34	$\Pi^{\circ}0$	
	8897 Jul 30 08:33	$0^{\circ}\Omega$		morning max el	8898 Jun 15 14:25	3° Ⅱ 37'17	27°07'53
morning set	8897 Aug 06 16:53	14° Ω 01′02			8898 Jul 05 11:57	0 \circ \odot	
asc. node	8897 Aug 11 01:06	22° Ω 57'47		morning set	8898 Jul 21 04:26	27° © 26'36	
max. Earth dist.	8897 Aug 11 20:23	24° Ω 39′57	1.32486 AU		8898 Jul 22 11:55	$0^{\circ}\Omega$	
				max. Earth dist.	8898 Jul 25 15:01	6° Ω 15'32	1.33667 AU
superior conj	8897 Aug 14 11:21	0° Mp 18'03	0°34'04	asc. node	8898 Jul 28 22:04	13° Ω 04'15	
minimum elong	8897 Aug 14 09:50	0° ™ 09'47	0°33'37				
	8897 Aug 14 08:01	0° ™		superior conj	8898 Jul 29 14:03	14° Ω 28'16	0°06'42
evening rise	8897 Aug 21 09:26	15° m 19'01		minimum elong	8898 Jul 29 13:43	14° Ω 26′28	0°06'27
	8897 Aug 28 15:41	0∘ ⊽		behind sun begin	8898 Jul 29 08:33	13° Ω 59'16	
evening max el	8897 Sep 13 19:04	23° ≙ 15'42	23°28'30	behind sun end	8898 Jul 29 18:53	14° Ω 53'42	
desc. node	8897 Sep 14 12:14	23° ≏ 56'15		evening rise	8898 Aug 05 20:14	29° Ω 54'04	
	8897 Sep 26 16:21	0° M			8898 Aug 05 21:22	0° ™	
retrograde	8897 Sep 27 07:26	0°M00'54			8898 Aug 23 04:39	0∘ ত	
	8897 Sep 27 22:33	30° ₹ Ω		evening max el	8898 Aug 26 09:31	3° ഫ 31'05	21°50'26
evening set	8897 Oct 01 14:01	29° ≏ 21'02		desc. node	8898 Sep 01 09:23	8° ഫ 02'44	
min. Earth dist.	8897 Oct 08 05:00		0.55594 AU	retrograde	8898 Sep 07 22:38	9° £ 44'59	
inferior conj	8897 Oct 10 01:59	25° ≏ 07'33		evening set	8898 Sep 10 18:56	9° £ 26'49	
minimum elong	8897 Oct 09 23:59	25° ≏ 10'30	5°36'21	inferior conj	8898 Sep 19 21:37	5° ≏ 27'41	
morning rise	8897 Oct 18 12:00	21° Ω 14'44		minimum elong	8898 Sep 19 12:57	5° Ω 39'48	4°53'00
direct	8897 Oct 21 09:18	20° £ 54'21		min. Earth dist.	8898 Sep 19 13:07	5° £ 39'34	0.54753 AU
morning max el	8897 Nov 01 00:44	25° Ω 54'35	20°20'53	morning rise	8898 Sep 28 08:15	1° £ 39'07	
•	8897 Nov 04 18:04	0°M		direct	8898 Oct 01 20:26	1° £ 12'06	21052125
asc. node	8897 Nov 07 00:54	3°M04'11		morning max el	8898 Oct 14 00:22	6° £ 56'45	21°52′26
morning set	8897 Nov 19 14:10	25°M45'36		asc. node	8898 Oct 24 21:53	21° £ 13'01	
	8897 Nov 21 15:36	0° ∡ 7		. ,	8898 Oct 29 18:55	0°M	
annoni	9907 N 27 02 57	110.7110110	1021155	morning set	8898 Nov 04 00:04	10°M32'37	
superior conj	8897 Nov 27 03:57	11° √ 19'18	1°31'55		0000 N 11 02 40	250 m 41152	1020120
minimum elong max. Earth dist.	8897 Nov 27 06:03 8897 Dec 02 13:43	11° х 29'51 21° х 58'48	1°31'59 1.36469 AU	superior conj	8898 Nov 11 03:49	25°M41'52 25°M46'05	1°39'39 1°39'50
			1.30409 AU	minimum elong	8898 Nov 11 04:38	25°111246 U5 0° √ 7	1-39'50
evening rise	8897 Dec 06 10:04 8897 Dec 06 20:53	29°渘10'42 0°る		max. Earth dist.	8898 Nov 13 05:22 8898 Nov 15 02:48	0°×' 3° √ 52'24	1.34642 AU
desc. node	8897 Dec 06 20.33 8897 Dec 11 10:57	0 3 8° る 05'51		evening rise	8898 Nov 19 10:52	12° x 25'58	1.JTU44 AU
uese. Houe	8897 Dec 11 10:57 8897 Dec 25 09:04	0°≈		desc. node	8898 Nov 28 08:00	28° ₹ 27'45	
evening max el	8898 Jan 11 00:12	0°≈ 20°≈32'43	25°56'11	uese. Houe	8898 Nov 29 05:56	28° x '2/45	
retrograde	8898 Jan 23 13:28	20°≈32'43 27°≈42'19	20 00 11		8898 Dec 20 12:10	0° ≈	
evening set	8898 Jan 29 15:39	27 ≈42 19 25°≈12'58		evening max el	8898 Dec 24 13:39	0 ≈ 4°≈14'24	26°51'10
min. Earth dist.	8898 Feb 02 22:05	23 ≈12 38 20°≈39'25	0.67068 AU	retrograde	8899 Jan 06 17:53	4 ≈14 24 11°≈33'26	20 31 17
asc. node	8898 Feb 02 22:03 8898 Feb 03 00:06	20 ≈3923 20°≈33'11	5.57506 AU	evening set	8899 Jan 13 07:31	8°≈58'31	
inferior conj	8898 Feb 04 09:59	20 ≈33 11 18°≈46'54	0°27'54	min. Earth dist.	8899 Jan 17 08:03		0.65846 AU
minimum elong	8898 Feb 04 09:16	18°≈49'08	0°27'47	inferior conj	8899 Jan 19 07:36	2°≈41'21	
morning rise	8898 Feb 10 03:29	18 ≈49 08 12°≈57'25	3 2/ T/	minimum elong	8899 Jan 19 07:30	2°≈38'46	
110111111g 1190	3070100 10 03.29	12 740120		mannium ciong	5077 Juli 17 00.50	2 /V/JU TU	3 30 31

asc. node	8899 Jan 20 21:13	0° ≈ 54'22		asc. node	8900 Jan 07 18:18	11° る 55'31	
asc. node	8899 Jan 21 17:38	0 ~5422 30°Rる		morning rise	8900 Jan 09 11:25	11 3 55517	
morning rise	8899 Jan 25 10:33	27°る03'14		direct	8900 Jan 11 23:23	10° ろ 27'35	
direct	8899 Jan 28 06:21	26°る19'24		morning max el	8900 Jan 18 10:15	13° る 49'31	17°51'56
morning max el	8899 Feb 03 17:10		18°13'03	morning max or	8900 Jan 29 18:47	0°≈	17 3130
morning man er	8899 Feb 03 22:56	0°≈	10 15 05	morning set	8900 Feb 04 09:44	9° ≈ 27'37	
morning set	8899 Feb 22 17:33	27° ≈ 40'57		desc. node	8900 Feb 11 04:27	20° ≈ 49'27	
desc. node	8899 Feb 24 07:32	0° ¥ 14'09		dese. node	8900 Feb 16 18:58	0° ∀	
	8899 Feb 24 04:02	0° ∀			.,	• ,,	
				superior conj	8900 Feb 17 16:39	1° ¥ 27'31	-0°46'19
superior conj	8899 Mar 09 22:35	21° ¥ 54'32	-1°28'47	minimum elong	8900 Feb 17 11:26	1° ¥ 06′28	0°45'27
minimum elong	8899 Mar 09 13:13	21° ¥ 17'46	1°27'44	max. Earth dist.	8900 Feb 22 16:36	9° ∺ 26'01	1.44954 AU
max. Earth dist.	8899 Mar 11 21:01	24° ¥ 56'34	1.45532 AU	evening rise	8900 Mar 05 14:15	26° ¥ 23'51	
	8899 Mar 15 02:38	0° Υ			8900 Mar 07 22:44	0° Υ	
evening rise	8899 Mar 26 00:57	17° Ƴ 02'18		greatest brilliancy	8900 Mar 20 07:06	18° Y 31'08	-0.6m
	8899 Apr 03 09:07	0°B			8900 Mar 28 14:26	0°8	
greatest brilliancy	8899 Apr 06 17:14	5° 8 06'46	-0.7m	evening max el	8900 Apr 01 22:45	5° 8 01'15	20°13'32
asc. node	8899 Apr 18 19:56	21° 8 23'38		asc. node	8900 Apr 05 17:03	8° 8 11'20	
evening max el	8899 Apr 18 19:15	21° 8 21'56	19°16'45	retrograde	8900 Apr 09 18:21	9° 8 33'30	
retrograde	8899 Apr 25 19:49	25° 8 19'46		evening set	8900 Apr 13 15:51	8° 8 05'35	
evening set	8899 Apr 29 08:32	24° 8 07'02		inferior conj	8900 Apr 18 23:39	2° 8 01'33	3°12'42
inferior conj	8899 May 04 19:18	18° 8 16'45	3°21'37	minimum elong	8900 Apr 18 22:22	2° 8 05'56	3°12'26
minimum elong	8899 May 04 19:02	18° 8 17'37	3°21'25	min. Earth dist.	8900 Apr 19 19:00	0° と 55'44	0.67692 AU
min. Earth dist.	8899 May 06 05:00	16° 8 27'25	0.66634 AU		8900 Apr 20 11:36	30° ₹Ƴ	
morning rise	8899 May 10 05:09	11° 8 58'03		morning rise	8900 Apr 24 04:38	25° Y '44'24	
direct	8899 May 16 10:15	9° 8 14'11		direct	8900 Apr 29 21:38	23° Y 11'42	
desc. node	8899 May 23 07:29	11° 8 49'25		desc. node	8900 May 10 04:25	28° Y 52'51	
morning max el	8899 May 29 00:42	16° 8 45'42	26°01'32		8900 May 11 07:49	0°8	
	8899 Jun 09 00:29	Π $\circ 0$		morning max el	8900 May 11 10:11	0° と 05'57	24°38'25
	8899 Jun 28 10:02	0 \circ \odot			8900 Jun 02 21:33	$\Pi^{\circ}0$	
morning set	8899 Jul 04 02:46	10°911'40		morning set	8900 Jun 16 07:17	22° Ⅱ 04'37	
max. Earth dist.	8899 Jul 07 23:02	17° 5 27'26	1.35325 AU	max. Earth dist.	8900 Jun 19 22:15	28° Ⅲ 33'47	1.37370 AU
					8900 Jun 20 17:06	0 \circ	
superior conj	8899 Jul 13 09:05	28° © 11'57	-0°23'53				
minimum elong	8899 Jul 13 10:29	28° © 19'05	0°23'49	superior conj	8900 Jun 26 17:21	11° © 21'35	-0°56'05
	8899 Jul 14 06:18	0 $^{\circ}$ Ω		minimum elong	8900 Jun 26 20:52	11° © 38'40	0°55'42
asc. node	8899 Jul 15 19:03	3° Ω 08′37		asc. node	8900 Jul 02 16:02	23° © 07'19	
evening rise	8899 Jul 21 04:06	14° Ω 16′46		evening rise	8900 Jul 05 06:40	28° © 20'45	
	8899 Jul 29 06:19	0° m			8900 Jul 06 02:36	$0^{\circ}\Omega$	
evening max el	0000 4 00 10.44	1 40 mm 1 511 2	20025110	evening max el	0000 1 1 22 01 22		
	8899 Aug 08 10:44	14° Mp 15'12	20-25 10	evening max er	8900 Jul 22 01:22	25° Ω 44'04	19°19'30
retrograde	8899 Aug 19 10:55	19° Mp 42'13	20-25/10	evening max er	8900 Jul 22 01:22 8900 Jul 28 19:00	25° Ω 44'04 0° m	19°19'30
retrograde desc. node	-	-	20*25*10	retrograde			19°19'30
desc. node evening set	8899 Aug 19 10:55 8899 Aug 19 06:31 8899 Aug 21 11:10	19° m/42'13 19° m/42'08 19° m/32'05			8900 Jul 28 19:00 8900 Jul 31 08:59 8900 Aug 02 05:32	0° m)	19°19'30
desc. node evening set inferior conj	8899 Aug 19 10:55 8899 Aug 19 06:31 8899 Aug 21 11:10 8899 Aug 30 14:49	19° m 42'13 19° m 42'08 19° m 32'05 15° m 34'39	-3°22'07	retrograde evening set	8900 Jul 28 19:00 8900 Jul 31 08:59 8900 Aug 02 05:32 8900 Aug 03 00:56	0° m/20'46 0° m/20'46 0° m/10'33 30° R.Ω	19°19'30
desc. node evening set	8899 Aug 19 10:55 8899 Aug 19 06:31 8899 Aug 21 11:10 8899 Aug 30 14:49 8899 Aug 30 06:02	19° m 42'13 19° m 42'08 19° m 32'05 15° m 34'39 15° m 47'26	-3°22'07 3°19'16	retrograde evening set desc. node	8900 Jul 28 19:00 8900 Jul 31 08:59 8900 Aug 02 05:32 8900 Aug 03 00:56 8900 Aug 06 03:37	0° m, 0° m,20'46 0° m,10'33 30° r, A 28° A49'19	
desc. node evening set inferior conj minimum elong min. Earth dist.	8899 Aug 19 10:55 8899 Aug 19 06:31 8899 Aug 21 11:10 8899 Aug 30 14:49 8899 Aug 30 06:02 8899 Aug 31 22:24	19° m 42'13 19° m 42'08 19° m 32'05 15° m 34'39 15° m 47'26 14° m 48'43	-3°22'07	retrograde evening set desc. node inferior conj	8900 Jul 28 19:00 8900 Jul 31 08:59 8900 Aug 02 05:32 8900 Aug 03 00:56 8900 Aug 06 03:37 8900 Aug 10 20:02	0° m 0° m 20'46 0° m 10'33 30° R A 28° A 49'19 26° A 01'57	-1°26′29
desc. node evening set inferior conj minimum elong min. Earth dist. morning rise	8899 Aug 19 10:55 8899 Aug 19 06:31 8899 Aug 21 11:10 8899 Aug 30 14:49 8899 Aug 30 06:02 8899 Aug 31 22:24 8899 Sep 08 00:18	19° m/42'13 19° m/42'08 19° m/32'05 15° m/34'39 15° m/47'26 14° m/48'43 11° m/29'56	-3°22'07 3°19'16	retrograde evening set desc. node inferior conj minimum elong	8900 Jul 28 19:00 8900 Jul 31 08:59 8900 Aug 02 05:32 8900 Aug 03 00:56 8900 Aug 06 03:37 8900 Aug 10 20:02 8900 Aug 10 16:11	0° m 0° m 20'46 0° m 10'33 30° R A 28° A 49'19 26° A 01'57 26° A 08'18	-1°26'29 1°25'09
desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	8899 Aug 19 10:55 8899 Aug 19 06:31 8899 Aug 21 11:10 8899 Aug 30 14:49 8899 Aug 30 06:02 8899 Aug 31 22:24 8899 Sep 08 00:18 8899 Sep 12 05:32	19° m/42'13 19° m/42'08 19° m/32'05 15° m/34'39 15° m/47'26 14° m/48'43 11° m/29'56 10° m/51'43	-3°22'07 3°19'16 0.54830 AU	retrograde evening set desc. node inferior conj minimum elong min. Earth dist.	8900 Jul 28 19:00 8900 Jul 31 08:59 8900 Aug 02 05:32 8900 Aug 03 00:56 8900 Aug 06 03:37 8900 Aug 10 20:02 8900 Aug 10 16:11 8900 Aug 13 11:08	0° m 0° m 20'46 0° m 10'33 30° R 28° A 49'19 26° A 01'57 26° A 08'18 24° A 18'35	-1°26'29 1°25'09
desc. node evening set inferior conj minimum elong min. Earth dist. morning rise	8899 Aug 19 10:55 8899 Aug 19 06:31 8899 Aug 21 11:10 8899 Aug 30 14:49 8899 Aug 30 06:02 8899 Aug 31 22:24 8899 Sep 08 00:18 8899 Sep 12 05:32 8899 Sep 25 14:45	19° m/42'13 19° m/42'08 19° m/32'05 15° m/34'39 15° m/47'26 14° m/48'43 11° m/29'56 10° m/51'43 17° m/20'48	-3°22'07 3°19'16	retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	8900 Jul 28 19:00 8900 Jul 31 08:59 8900 Aug 02 05:32 8900 Aug 03 00:56 8900 Aug 06 03:37 8900 Aug 10 20:02 8900 Aug 10 16:11 8900 Aug 13 11:08 8900 Aug 19 00:03	0° m 0° m 20'46 0° m 10'33 30° k	-1°26'29 1°25'09
desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	8899 Aug 19 10:55 8899 Aug 19 06:31 8899 Aug 21 11:10 8899 Aug 30 14:49 8899 Aug 30 06:02 8899 Aug 31 22:24 8899 Sep 08 00:18 8899 Sep 12 05:32 8899 Sep 25 14:45 8899 Oct 05 20:07	19° m/42'13 19° m/42'08 19° m/32'05 15° m/34'39 15° m/47'26 14° m/48'43 11° m/29'56 10° m/51'43 17° m/20'48 0° Ω	-3°22'07 3°19'16 0.54830 AU	retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	8900 Jul 28 19:00 8900 Jul 31 08:59 8900 Aug 02 05:32 8900 Aug 03 00:56 8900 Aug 06 03:37 8900 Aug 10 20:02 8900 Aug 10 16:11 8900 Aug 13 11:08 8900 Aug 19 00:03 8900 Aug 24 00:46	0° m 0° m 20'46 0° m 10'33 30° R	-1°26′29 1°25′09 0.55837 AU
desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	8899 Aug 19 10:55 8899 Aug 19 06:31 8899 Aug 21 11:10 8899 Aug 30 14:49 8899 Aug 30 06:02 8899 Aug 31 22:24 8899 Sep 08 00:18 8899 Sep 12 05:32 8899 Sep 25 14:45 8899 Oct 05 20:07 8899 Oct 11 18:51	19° m/42'13 19° m/42'08 19° m/32'05 15° m/34'39 15° m/47'26 14° m/48'43 11° m/29'56 10° m/51'43 17° m/20'48 0° Ω 10° Ω00'17	-3°22'07 3°19'16 0.54830 AU	retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	8900 Jul 28 19:00 8900 Jul 31 08:59 8900 Aug 02 05:32 8900 Aug 03 00:56 8900 Aug 06 03:37 8900 Aug 10 20:02 8900 Aug 10 16:11 8900 Aug 13 11:08 8900 Aug 19 00:03 8900 Aug 24 00:46 8900 Sep 07 03:08	0° m 20'46 0° m 20'46 0° m 10'33 30° R	-1°26′29 1°25′09 0.55837 AU
desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	8899 Aug 19 10:55 8899 Aug 19 06:31 8899 Aug 21 11:10 8899 Aug 30 14:49 8899 Aug 30 06:02 8899 Aug 31 22:24 8899 Sep 08 00:18 8899 Sep 12 05:32 8899 Sep 25 14:45 8899 Oct 05 20:07 8899 Oct 11 18:51 8899 Oct 19 11:40	19° m/42'13 19° m/42'08 19° m/32'05 15° m/34'39 15° m/47'26 14° m/48'43 11° m/29'56 10° m/51'43 17° m/20'48 0° Ω 10° Ω00'17 25° Ω22'13	-3°22'07 3°19'16 0.54830 AU	retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	8900 Jul 28 19:00 8900 Jul 31 08:59 8900 Aug 02 05:32 8900 Aug 03 00:56 8900 Aug 06 03:37 8900 Aug 10 20:02 8900 Aug 10 16:11 8900 Aug 13 11:08 8900 Aug 19 00:03 8900 Aug 24 00:46 8900 Sep 07 03:08 8900 Sep 09 12:46	0° m 0° m 20'46 0° m 10'33 30° R \(\Omega\) 28° \(\Omega\) 49'19 26° \(\Omega\) 01'57 26° \(\Omega\) 08'18 24° \(\Omega\) 18'35 21° \(\Omega\) 22'40 20° \(\Omega\) 26'01 27° \(\Omega\) 33'32 0° m	-1°26′29 1°25′09 0.55837 AU
desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	8899 Aug 19 10:55 8899 Aug 19 06:31 8899 Aug 21 11:10 8899 Aug 30 14:49 8899 Aug 30 06:02 8899 Aug 31 22:24 8899 Sep 08 00:18 8899 Sep 12 05:32 8899 Sep 25 14:45 8899 Oct 05 20:07 8899 Oct 11 18:51	19° m/42'13 19° m/42'08 19° m/32'05 15° m/34'39 15° m/47'26 14° m/48'43 11° m/29'56 10° m/51'43 17° m/20'48 0° Ω 10° Ω00'17	-3°22'07 3°19'16 0.54830 AU	retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	8900 Jul 28 19:00 8900 Jul 31 08:59 8900 Aug 02 05:32 8900 Aug 03 00:56 8900 Aug 06 03:37 8900 Aug 10 20:02 8900 Aug 10 16:11 8900 Aug 13 11:08 8900 Aug 19 00:03 8900 Aug 24 00:46 8900 Sep 07 03:08 8900 Sep 09 12:46 8900 Sep 28 15:46	0° m 0° m 20'46 0° m 10'33 30° R A 28° A 49'19 26° A 01'57 26° A 08'18 24° A 18'35 21° A 23'40 20° A 26'01 27° A 33'32 0° m 29° m 16'15	-1°26′29 1°25′09 0.55837 AU
desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	8899 Aug 19 10:55 8899 Aug 19 06:31 8899 Aug 21 11:10 8899 Aug 30 14:49 8899 Aug 30 06:02 8899 Aug 31 22:24 8899 Sep 08 00:18 8899 Sep 12 05:32 8899 Sep 25 14:45 8899 Oct 05 20:07 8899 Oct 11 18:51 8899 Oct 19 11:40 8899 Oct 21 15:28	19° m/42'13 19° m/42'08 19° m/32'05 15° m/34'39 15° m/47'26 14° m/48'43 11° m/29'56 10° m/51'43 17° m/20'48 0° Ω 10° Ω00'17 25° Ω22'13 0° m.	-3°22'07 3°19'16 0.54830 AU 23°37'20	retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	8900 Jul 28 19:00 8900 Jul 31 08:59 8900 Aug 02 05:32 8900 Aug 03 00:56 8900 Aug 06 03:37 8900 Aug 10 20:02 8900 Aug 10 16:11 8900 Aug 13 11:08 8900 Aug 19 00:03 8900 Aug 24 00:46 8900 Sep 07 03:08 8900 Sep 09 12:46 8900 Sep 28 15:46 8900 Sep 29 00:42	0° m 0° m 20'46 0° m 10'33 30° R 28° A49'19 26° A01'57 26° A08'18 24° A18'35 21° A23'40 20° A26'01 27° A33'32 0° m 29° m 16'15 0° •	-1°26′29 1°25′09 0.55837 AU
desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	8899 Aug 19 10:55 8899 Aug 19 06:31 8899 Aug 21 11:10 8899 Aug 30 14:49 8899 Aug 30 06:02 8899 Aug 31 22:24 8899 Sep 08 00:18 8899 Sep 12 05:32 8899 Sep 12 05:32 8899 Sep 25 14:45 8899 Oct 05 20:07 8899 Oct 11 18:51 8899 Oct 19 11:40 8899 Oct 21 15:28	19° m 42'13 19° m 42'08 19° m 32'05 15° m 34'39 15° m 47'26 14° m 48'43 11° m 29'56 10° m 51'43 17° m 20'48 0° \(\Omega\) 10° \(\Omega\) 0° \(\Omega\) 10° \(\Omega\) 10° \(\Omega\) 10° \(\Omega\)	-3°22'07 3°19'16 0.54830 AU 23°37'20	retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	8900 Jul 28 19:00 8900 Jul 31 08:59 8900 Aug 02 05:32 8900 Aug 03 00:56 8900 Aug 06 03:37 8900 Aug 10 20:02 8900 Aug 10 16:11 8900 Aug 13 11:08 8900 Aug 19 00:03 8900 Aug 24 00:46 8900 Sep 07 03:08 8900 Sep 09 12:46 8900 Sep 28 15:46	0° m 0° m 20'46 0° m 10'33 30° R A 28° A 49'19 26° A 01'57 26° A 08'18 24° A 18'35 21° A 23'40 20° A 26'01 27° A 33'32 0° m 29° m 16'15	-1°26′29 1°25′09 0.55837 AU
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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 retrograde evening set	8899 Aug 19 10:55 8899 Aug 19 06:31 8899 Aug 21 11:10 8899 Aug 30 14:49 8899 Aug 30 06:02 8899 Aug 31 22:24 8899 Sep 08 00:18 8899 Sep 12 05:32 8899 Sep 12 05:32 8899 Sep 25 14:45 8899 Oct 05 20:07 8899 Oct 11 18:51 8899 Oct 19 11:40 8899 Oct 21 15:28 8899 Oct 26 09:54 8899 Oct 26 09:54 8899 Oct 29 00:04 8899 Nov 03 00:10 8899 Nov 04 21:56 8899 Nov 15 05:05 8899 Nov 22 14:51 8899 Dec 07 02:17 8899 Dec 20 16:04 8899 Dec 27 14:26	19° m/42'13 19° m/42'08 19° m/42'08 19° m/42'05 15° m/34'39 15° m/47'26 14° m/48'43 11° m/29'56 10° m/51'43 17° m/20'48 0° Ω 10° Ω00'17 25° Ω22'13 0° m. 10° m/20'48 10° m/18'30 15° m/53'56 26° m/14'00 0° 🕏 114'00 0° ¬ 18° ¬ 33'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06	-3°22'07 3°19'16 0.54830 AU 23°37'20 1°40'34 1°40'43 1.33202 AU	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	8900 Jul 28 19:00 8900 Jul 31 08:59 8900 Aug 02 05:32 8900 Aug 03 00:56 8900 Aug 06 03:37 8900 Aug 10 20:02 8900 Aug 10 16:11 8900 Aug 13 11:08 8900 Aug 19 00:03 8900 Aug 24 00:46 8900 Sep 07 03:08 8900 Sep 09 12:46 8900 Sep 28 15:46 8900 Sep 29 00:42 8900 Oct 10 19:46 8900 Oct 10 19:46 8900 Oct 10 18:21 8900 Oct 12 04:30 8900 Oct 13 00:57 8900 Oct 17 22:38 8900 Oct 28 04:39 8900 Nov 02 02:11 8900 Nov 18 22:03	0° m 0° m20'46 0° m20'46 0° m20'46 28° A49'19 26° A01'57 26° A08'18 24° A18'35 21° A23'40 20° A26'01 27° A33'32 0° m 29° m16'15 0° Ω 10° Ω09'19 25° Ω08'33 25° Ω00'46 28° Ω08'21 0° m 10° m26'08 0° π 10° m26'08 0° π 8° ₹09'05 0° σ	-1°26'29 1°25'09 0.55837 AU 25°21'02 1°35'25 1°35'24 1.32210 AU
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 retrograde evening set min. Earth dist.	8899 Aug 19 10:55 8899 Aug 19 06:31 8899 Aug 21 11:10 8899 Aug 30 14:49 8899 Aug 30 06:02 8899 Aug 31 22:24 8899 Sep 08 00:18 8899 Sep 12 05:32 8899 Sep 25 14:45 8899 Oct 05 20:07 8899 Oct 11 18:51 8899 Oct 19 11:40 8899 Oct 21 15:28 8899 Oct 26 09:54 8899 Oct 26 09:54 8899 Oct 29 00:04 8899 Nov 03 00:10 8899 Nov 04 21:56 8899 Nov 15 05:05 8899 Nov 15 05:05 8899 Dec 07 02:17 8899 Dec 20 16:04 8899 Dec 27 14:26 8899 Dec 31 09:53	19° m 42'13 19° m 42'08 19° m 42'08 19° m 32'05 15° m 34'39 15° m 47'26 14° m 48'43 11° m 29'56 10° m 51'43 17° m 20'48 0° Ω 10° Ω 20'17 25° Ω 22'13 0° m 10° m 20'48 10° m 18'30 15° m 53'56 26° m 14'00 0° ズ 18° ズ 31'33 0° ズ 17° ♂ 39'06 24° ♂ 59'22 22° ♂ 25'17 18° ♂ 59'08	-3°22'07 3°19'16 0.54830 AU 23°37'20 1°40'34 1°40'43 1.33202 AU 27°23'45	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	8900 Jul 28 19:00 8900 Jul 31 08:59 8900 Aug 02 05:32 8900 Aug 03 00:56 8900 Aug 06 03:37 8900 Aug 10 20:02 8900 Aug 10 16:11 8900 Aug 13 11:08 8900 Aug 19 00:03 8900 Aug 19 00:03 8900 Aug 24 00:46 8900 Sep 07 03:08 8900 Sep 09 12:46 8900 Sep 28 15:46 8900 Sep 29 00:42 8900 Oct 10 19:46 8900 Oct 10 19:46 8900 Oct 10 18:21 8900 Oct 12 04:30 8900 Oct 13 00:57 8900 Oct 13 00:57 8900 Oct 14 22:38 8900 Oct 28 04:39 8900 Nov 02 02:11 8900 Nov 18 22:03 8900 Nov 19 12:06	0° m 0° m20'46 0° m20'46 0° m20'46 28° A49'19 26° A01'57 26° A08'18 24° A18'35 21° A23'40 20° A26'01 27° A33'32 0° m 29° m16'15 0° Ω 10° Ω09'19 25° Ω08'33 25° Ω00'46 28° Ω08'21 0° m 10° m26'08 0° ズ 8° ズ09'05 0° ♂ 0° ♂ 33'43	-1°26'29 1°25'09 0.55837 AU 25°21'02 1°35'25 1°35'24 1.32210 AU
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 retrograde evening set	8899 Aug 19 10:55 8899 Aug 19 06:31 8899 Aug 21 11:10 8899 Aug 30 14:49 8899 Aug 30 06:02 8899 Aug 31 22:24 8899 Sep 08 00:18 8899 Sep 12 05:32 8899 Sep 12 05:32 8899 Sep 25 14:45 8899 Oct 05 20:07 8899 Oct 11 18:51 8899 Oct 19 11:40 8899 Oct 21 15:28 8899 Oct 26 09:54 8899 Oct 26 09:54 8899 Oct 29 00:04 8899 Nov 03 00:10 8899 Nov 04 21:56 8899 Nov 15 05:05 8899 Nov 22 14:51 8899 Dec 07 02:17 8899 Dec 20 16:04 8899 Dec 27 14:26	19° m/42'13 19° m/42'08 19° m/42'08 19° m/42'05 15° m/34'39 15° m/47'26 14° m/48'43 11° m/29'56 10° m/51'43 17° m/20'48 0° Ω 10° Ω00'17 25° Ω22'13 0° m. 10° m/20'48 10° m/18'30 15° m/53'56 26° m/14'00 0° 🕏 114'00 0° ¬ 18° ¬ 33'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06 24° ¬ 39'06	-3°22'07 3°19'16 0.54830 AU 23°37'20 1°40'34 1°40'43 1.33202 AU 27°23'45 0.64278 AU -1°37'37	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	8900 Jul 28 19:00 8900 Jul 31 08:59 8900 Aug 02 05:32 8900 Aug 03 00:56 8900 Aug 06 03:37 8900 Aug 10 20:02 8900 Aug 10 16:11 8900 Aug 13 11:08 8900 Aug 19 00:03 8900 Aug 24 00:46 8900 Sep 07 03:08 8900 Sep 09 12:46 8900 Sep 28 15:46 8900 Sep 29 00:42 8900 Oct 10 19:46 8900 Oct 10 19:46 8900 Oct 10 18:21 8900 Oct 12 04:30 8900 Oct 13 00:57 8900 Oct 17 22:38 8900 Oct 28 04:39 8900 Nov 02 02:11 8900 Nov 18 22:03	0° m 0° m20'46 0° m20'46 0° m20'46 28° A49'19 26° A01'57 26° A08'18 24° A18'35 21° A23'40 20° A26'01 27° A33'32 0° m 29° m16'15 0° Ω 10° Ω09'19 25° Ω08'33 25° Ω00'46 28° Ω08'21 0° m 10° m26'08 0° π 10° m26'08 0° π 8° ₹09'05 0° σ	-1°26'29 1°25'09 0.55837 AU 25°21'02 1°35'25 1°35'24 1.32210 AU

min. Earth dist.	8900 Dec 14 01:52	2°₹27'56	0.62413 AU	evening set	8901 Nov 22 12:34	17° ∡ 753'06	
inferior conj	8900 Dec 16 23:22	29° х 44'20		min. Earth dist.	8901 Nov 26 07:20		0.60355 AU
minimum elong	8900 Dec 17 04:47	29° х 31'32	2°46'08	inferior conj	8901 Nov 29 11:15	12° х 36'47	
	8900 Dec 16 16:45	30°R. ✓		minimum elong	8901 Nov 29 18:30	12° ∡ ′21'44	
morning rise	8900 Dec 24 02:25	24° ₹ 37'57		morning rise	8901 Dec 07 02:54	7° ∡ 750'40	
asc. node	8900 Dec 25 15:20	24° ҂ 17′09		direct	8901 Dec 09 07:16	7° ∡ ³32'16	
direct	8900 Dec 26 08:56	24° ₹ 14'41		asc. node	8901 Dec 12 12:20	8° ∡ 14'00	
morning max el	8901 Jan 02 03:22	27° ∡ ¹41'47	17°48'27	morning max el	8901 Dec 16 17:07	11° ∡ 13′29	18°03'44
	8901 Jan 04 05:22	8°0			8901 Dec 29 03:06	ರ°0	
morning set	8901 Jan 18 00:55	22° る 19'49		morning set	8902 Jan 01 08:47	5° ರ 59'01	
	8901 Jan 22 09:02	0° ≈					
				superior conj	8902 Jan 11 05:45	24° る 04'31	0°34'44
superior conj	8901 Jan 29 10:42	12°≈10′20		minimum elong	8902 Jan 11 08:22	24° る 16'05	0°34'33
minimum elong	8901 Jan 29 10:27	12° ≈ 09'16	0°02'39		8902 Jan 14 14:50	0° ≈	
behind sun begin	8901 Jan 29 01:37	11° ≈ 32′02		desc. node	8902 Jan 15 22:22	2° ≈ 15'34	
behind sun end	8901 Jan 29 19:16	12°≈46′24		max. Earth dist.	8902 Jan 18 20:41	7°≈12'51	1.41938 AU
desc. node	8901 Jan 29 01:22	11° ≈ 30'59		evening rise	8902 Jan 24 06:21	16°≈03'11	
max. Earth dist.	8901 Feb 05 08:57	23°≈35'48	1.43707 AU		8902 Feb 02 05:56	0° ∀	
	8901 Feb 09 09:11	0° ₩ 5° ₩ 52'37			8902 Feb 24 07:47	0°Υ 2°Υ23'31	22040124
evening rise	8901 Feb 13 03:19	5°π52'37 0°Υ		evening max el	8902 Feb 26 13:52	2° γ 23'31 8° γ 17'44	22°40′34
avanina may al	8901 Mar 01 06:57 8901 Mar 15 20:36		21°22'57	retrograde asc. node	8902 Mar 08 13:02 8902 Mar 10 11:15	8° γ 17'44 7° Υ 59'15	
evening max el asc. node	8901 Mar 23 14:10	18 γ 41 03 23° γ 47'51	21 22 37	evening set	8902 Mar 10 11.13 8902 Mar 13 07:32	6° Υ 19'45	
retrograde	8901 Mar 24 16:40	23° Y 54'02		inferior conj	8902 Mar 18 16:00	29° H 56'08	2°23'32
evening set	8901 Mar 29 00:03	23° $\Upsilon 10^{\circ}$ 57°		minimum elong	8902 Mar 18 13:46	0° Υ 03'54	
inferior conj	8901 Apr 03 07:13	15° Υ 55'34	2°52'54	min. Earth dist.	8902 Mar 18 09:58	0° Υ 17'08	0.68487 AU
minimum elong	8901 Apr 03 05:15	16° Υ 02'24	2°52'28	iiiii. Lattii dist.	8902 Mar 18 14:54	30°R) €	0.00407 AC
min. Earth dist.	8901 Apr 03 13:23	15° Υ 34'05	0.68305 AU	morning rise	8902 Mar 23 19:52	23°) (47'12	
morning rise	8901 Apr 08 10:16	9° Υ 41'48	0.00000110	direct	8902 Mar 28 09:30	21°) 53'37	
direct	8901 Apr 13 13:44	7° Y 26'51		morning max el	8902 Apr 06 08:57	27°) (07'12	21°41'30
morning max el	8901 Apr 23 19:51	13° Υ 32'26	23°08'38		8902 Apr 09 01:13	0°Υ	
desc. node	8901 Apr 27 01:20	17° Ƴ 02'25		desc. node	8902 Apr 13 22:16	6° Y 00′15	
	8901 May 07 02:30	0°8			8902 Apr 30 16:05	0°8	
	8901 May 26 19:15	$\Pi^{\circ}0$		morning set	8902 May 08 14:20	12° 8 20'52	
morning set	8901 May 28 12:27	2° Ⅲ 50'41		max. Earth dist.	8902 May 14 18:12	22° 8 21'30	1.41804 AU
max. Earth dist.	8901 Jun 01 18:13	10° Ⅲ 02'48	1.39616 AU		8902 May 19 07:13	Π °0	
superior conj	8901 Jun 09 10:52	23° Ⅱ 47'17	-1°27'26	superior conj	8902 May 22 09:05	5° Ⅱ 18'51	-1°53'50
minimum elong	8901 Jun 09 16:17	24° I I12'19		minimum elong	8902 May 22 09:03	5° ∏ 44'27	
minimum ciong	8901 Jun 12 18:46	0°9	1 20 30	evening rise	8902 Jun 02 06:59	24° I 57'39	1 33 42
evening rise	8901 Jun 19 00:53	11° 9 57'31		evening rise	8902 Jun 05 01:04	0°9	
asc. node	8901 Jun 19 13:03	12°955'55		asc. node	8902 Jun 06 10:04	2° 5 29'30	
	8901 Jun 29 00:50	$0^{\circ}\Omega$		evening max el	8902 Jun 18 12:36	20°541'53	18°10'38
evening max el	8901 Jul 05 03:17	7° Ω 56′07	18°34'56	retrograde	8902 Jun 25 11:04	24° © 12'19	
retrograde	8901 Jul 13 00:45	11° Ω 51'59		evening set	8902 Jun 27 20:32	23° 5 47'49	
evening set	8901 Jul 15 02:32	11° Ω 36'36		inferior conj	8902 Jul 04 20:46	19° 5 00'02	1°42'04
inferior conj	8901 Jul 22 21:41	7° Ω 09'28	0°20'17	minimum elong	8902 Jul 04 23:34	18°953'45	1°40'58
minimum elong	8901 Jul 22 22:26	7° Ω 08′02	0°19'48	min. Earth dist.	8902 Jul 08 05:07	16° © 01'27	0.59745 AU
desc. node	8901 Jul 24 00:40	6° Ω 17'21		desc. node	8902 Jul 10 21:45	13°956'27	
min. Earth dist.	8901 Jul 26 04:53	4° £ 38′28	0.57580 AU	morning rise	8902 Jul 11 23:37	13°9514'56	
morning rise	8901 Jul 30 14:46	1° Ω 54'10		direct	8902 Jul 18 10:06	11° © 18'03	
direct	8901 Aug 05 10:50	0° £ 28′21		morning max el	8902 Aug 01 18:27	19° © 10'44	27°40'13
morning max el	8901 Aug 19 19:29		26°46'28		8902 Aug 10 22:29	$0 {\circ} \Omega$	
	8901 Sep 05 07:29	0° m			8902 Aug 29 01:41	0° m ∕	
asc. node	8901 Sep 15 12:42	18° Mp 53′25		asc. node	8902 Sep 02 09:38	8° m 44'48	
morning set	8901 Sep 18 09:08	24° m/49'17		morning set	8902 Sep 02 15:38	9° m 16'09	
	8901 Sep 20 18:53	0∘ ⊽		max. Earth dist.	8902 Sep 08 23:17	22° Mp 56'07	1.31624 AU
superior conj	8901 Sep 25 07:25	9° £ 58'58	1°24'41	superior conj	8902 Sep 09 18:57	24° Mp 45'04	1°08'47
minimum elong	8901 Sep 25 05:22	9° ≏ 47'36	1°24'28	minimum elong	8902 Sep 09 16:42	24° m 32'37	1°08'22
max. Earth dist.	8901 Sep 25 13:24	10° ≙ 32'13	1.31683 AU	_	8902 Sep 12 03:45	0∘ ⊽	
evening rise	8901 Oct 02 03:36	24° ≏ 55'03		evening rise	8902 Sep 16 12:42	9° ഫ 33'03	
	8901 Oct 04 14:17	0°M₊			8902 Sep 26 22:46	0° M	
desc. node	8901 Oct 19 23:17	27°M09'53		desc. node	8902 Oct 06 20:24	15°M18'36	
	8901 Oct 21 22:21	0° ∡ ¹		evening max el	8902 Oct 14 14:00	24°M09'29	25°54'17
evening max el	8901 Nov 01 16:48	12° ∡ ′46′52	26°57'19		8902 Oct 22 22:43	0° ∡ ¹	
retrograde	8901 Nov 15 14:44	19° ∡ 56'47		retrograde	8902 Oct 28 12:05	1° ⊀ 12'16	

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	8902 Nov 03 00:31	30°RM		retrograde	8903 Oct 09 21:40	11°M38'42	
evening set	8902 Nov 03 19:06	29°M38'53		evening set	8903 Oct 15 01:10	10°M40'05	
min. Earth dist.	8902 Nov 08 02:43		0.58279 AU	min. Earth dist.	8903 Oct 20 14:27	7° M 49'59	0.56435 AU
inferior conj	8902 Nov 11 05:10	24°M49'45		inferior conj	8903 Oct 23 02:47	6°M15'24	
minimum elong	8902 Nov 11 12:03	24° M 37'19		minimum elong	8903 Oct 23 05:10	6°M11'39	
morning rise	8902 Nov 19 07:19	20°M26'04		morning rise	8903 Oct 31 11:17	2°M13'34	
direct	8902 Nov 21 14:08	20°ML09'14		direct	8903 Nov 03 02:02	1°M55'15	
asc. node	8902 Nov 29 09:21	23°M39'49		morning max el	8903 Nov 12 19:46		19°37'23
morning max el	8902 Nov 29 23:46	24°M13'26	18°39'29	asc. node	8903 Nov 16 06:22	10°M20'49	19 07 20
	8902 Dec 04 18:20	0° %	10 0, 2,	use. noue	8903 Nov 27 23:08	0° ⊼ ¹	
morning set	8902 Dec 16 04:08	20° × ⁷ 09'17		morning set	8903 Nov 30 07:13	4° х 39'46	
morning set	8902 Dec 21 05:52	20 × 05 17 0° ਰ		morning set	0703 1101 30 07.13	4 7 37 40	
	0702 BCC 21 03.32	ů U		superior conj	8903 Dec 08 05:11	20° х 34′26	1°24'02
superior conj	8902 Dec 24 21:35	6° ප 57'12	1°03'48	minimum elong	8903 Dec 08 07:55	20°×3120	1°24'00
minimum elong	8902 Dec 25 00:55	7° る 12'47	1°03'36	minimum crong	8903 Dec 13 02:38	0°る	1 2.00
max. Earth dist.	8903 Jan 01 04:21	20° ට 09'40	1.39840 AU	max. Earth dist.	8903 Dec 14 10:23		1.37663 AU
desc. node	8903 Jan 02 19:21	22° ろ 58'57	1.57040 /10	evening rise	8903 Dec 14 10:25	9°₹12'37	1.57005710
evening rise	8903 Jan 05 06:21	27° る 09'56		desc. node	8903 Dec 20 16:21	13° る 37'25	
evening rise	8903 Jan 06 23:09	27 3 09 30 0 ∞		desc. node	8903 Dec 20 10:21 8903 Dec 30 18:01	0° ≈	
	8903 Jan 26 20:20	0° ∺		evening max el	8904 Jan 22 17:30	0 ∞ 29°≈57'33	25°16'57
evening max el	8903 Feb 09 04:17	16° ¥ 09'40	24°00'47	evening max ci	8904 Jan 22 17:30 8904 Jan 22 18:30	29 ≈ 3733	23 10 37
retrograde	8903 Feb 20 06:12	22°\(\frac{10}{40}\)'20	24 00 47	retrograde	8904 Jan 22 18:30 8904 Feb 03 19:05	6° ¥ 56'03	
asc. node	8903 Feb 25 08:21	22 \(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\		evening set	8904 Feb 03 19:03 8904 Feb 09 14:21	4° ★31'51	
	8903 Feb 25 08:21 8903 Feb 25 12:50	20° X 3741 20° X 28'18		asc. node	8904 Feb 12 05:29	1° X 51'30	
evening set min. Earth dist.	8903 Mar 02 06:24	20 ★ 2818	0.68251 AU	asc. Houe	8904 Feb 12 03:29 8904 Feb 13 17:51	1 /(3130 30°R≈	
inferior conj	8903 Mar 03 00:10	13 \(\)(0023	1°45'18	min. Earth dist.	8904 Feb 14 00:30	30 k∞ 29°≈38'43	0.67613 AU
3	8903 Mar 03 00:10 8903 Mar 02 22:07	14° X 00'09	1°44'41	inferior conj	8904 Feb 14 00:30 8904 Feb 15 05:50	29°≈38'43 28°≈03'36	0.67613 AU 0°58'34
minimum elong		7° H 57'35	1-44-41	3			
morning rise	8903 Mar 08 07:25	6° ¥ 26'16		minimum elong	8904 Feb 15 04:28	28°≈08'03	0°58'10
direct	8903 Mar 12 07:44		20024100	morning rise	8904 Feb 20 18:56	22°≈09'01	
morning max el	8903 Mar 20 04:51	10° ★ 54'20 25° ★ 33'21	20°24'09	direct	8904 Feb 24 06:54	20°≈58'39	10920129
desc. node	8903 Mar 31 19:12	25° π 33′21 0° Υ		morning max el	8904 Mar 02 08:45	24°≈53'05 0°) €	19°20'38
marning got	8903 Apr 03 21:14	20° Υ 52'13		araataat brillianay	8904 Mar 06 19:30	11°) 55'54	0.7
morning set	8903 Apr 17 17:30	0° 8		greatest brilliancy	8904 Mar 15 06:37	15°) (31'38	-0.7111
may Earth dist	8903 Apr 23 13:32 8903 Apr 27 01:59		1.43654 AU	desc. node	8904 Mar 17 16:07	29° ¥ 21′03	
max. Earth dist.	8903 Apr 27 01.39	3 03041	1.43034 AU	morning set	8904 Mar 26 16:53	29 π 21 03 0° Υ	
gunariar agni	8903 May 03 07:52	15° 8 48'02	2010/00	max. Earth dist.	8904 Mar 27 02:59 8904 Apr 08 16:21		1.44938 AU
superior conj minimum elong	8903 May 03 10:47	16° 8 00'08		max. Latin dist.	6904 Apr 06 10.21	19 3417	1.44936 AU
minimum ciong	8903 May 11 17:13	0°II	2 10 13	superior conj	8904 Apr 12 06:27	25° Y 15′23	2000126
evening rise	8903 May 15 20:32	7° Ⅱ 11'29		minimum elong	8904 Apr 12 02:39	25°Υ00'16	
asc. node	8903 May 13 20.32 8903 May 24 07:08	21° ∏ 42'49		minimum ciong	8904 Apr 15 05:38	0° 8	2 09 34
asc. nouc	8903 May 29 18:26	0°95		evening rise	8904 Apr 26 12:55	18° 8 29'17	
evening max el	8903 Jun 02 01:34	3° 9 51'49	18°05'38	evening rise	8904 Apr 20 12:33 8904 May 03 11:37	0° Ⅱ	
retrograde	8903 Jun 08 12:29	7°912'33	16 03 36	asc. node	8904 May 10 04:13	10° Ⅱ 28'30	
evening set	8903 Jun 11 05:32	6°936'19		evening max el	8904 May 15 14:49	10 H 28 30	18010117
inferior conj	8903 Jun 17 14:18	1°928'47	2036144	retrograde	8904 May 22 00:22	20° ∏ 42'24	10 1717
minimum elong	8903 Jun 17 17:05	1°921'38		evening set	8904 May 25 00:44	19° ∏ 52'49	
minimum clong	8903 Jun 19 00:40	30°RⅡ	2 33 31	inferior conj	8904 May 30 22:08	14° ∏ 27′22	3°08'08
min. Earth dist.	8903 Jun 20 13:43	28° II 26'30	0.62000 AU	minimum elong	8904 May 30 22:08 8904 May 30 23:52	14 H 27 22 14° H 22'22	3°07'39
morning rise	8903 Jun 24 02:39	25° I I24'09	0.02000 110	min. Earth dist.	8904 Jun 02 07:46	11° ∏ 42'24	0.64081 AU
desc. node	8903 Jun 27 18:49	23° II 24'09 23° II 29'42		morning rise	8904 Jun 05 21:51	8° Ⅱ 12'21	0.07001 AU
direct	8903 Jun 30 20:01	23° II 00'37		direct	8904 Jun 12 14:45	5° Д 31'36	
anout	8903 Jul 13 22:19	23 H 0037 0° ඉ		desc. node	8904 Jun 12 14:43 8904 Jun 13 15:52	5° ∏ 35'11	
morning max el	8903 Jul 14 23:47	1°902'02	27°56'03	morning max el	8904 Jun 26 09:11	13° Ⅲ 32'30	27°34'44
morning max ci	8903 Aug 05 03:12	0°Ω	27 50 05	morning max or	8904 Jul 09 15:09	13 H 3230	21 JT TT
morning set	8903 Aug 17 16:46	23° Ω 24'28			8904 Jul 27 17:29	$0 {\circ} \Omega$	
asc. node	8903 Aug 20 06:36	28° Ω 45'19		morning set	8904 Jul 31 10:07	7° Ω 07'27	
abe. Houc	8903 Aug 20 00:30	0°M		max. Earth dist.	8904 Aug 05 06:30	16° Ω 59'43	1.32928 AU
max. Earth dist.	8903 Aug 23 06:19		1.32036 AU	asc. node	8904 Aug 06 03:34	18° € 5943	1.32928 AU
superior conj	8903 Aug 25 04:37	9° m 21'23	0°48'02	superior conj	8904 Aug 08 10:26	23° Ω 42'02	0°22'54
minimum elong	8903 Aug 25 02:40	9° mp 10'42	0°47'34	minimum elong	8904 Aug 08 09:21	23°Ω36'10	
evening rise	8903 Aug 31 23:57	24° Mp 14'06	-		8904 Aug 11 08:32	0° m)	-
<i>3</i>	8903 Sep 03 17:36	0∘ ರ		evening rise	8904 Aug 15 11:26	8° m 52'16	
	8903 Sep 21 18:45	0° m			8904 Aug 26 09:55	0° ™	
desc. node	8903 Sep 23 17:32	2°M14'58		evening max el	8904 Sep 06 14:49	0 — 14° Ω 55'17	22°45'55
evening max el	8903 Sep 26 03:34	4°M.44'31	24°25'28	desc. node	8904 Sep 09 14:39	17° ⊆ 32'03	
<i>3</i> 22	. r				· F		

retrograde	8904 Sep 19 19:15	21° £ 30'15		asc. node	8905 Jul 24 00:32	8° Ω 55'54	
evening set	8904 Sep 23 10:28	21° ⊆ 3013		evening rise	8905 Jul 30 21:14	23° Ω 22'07	
min. Earth dist.	8904 Sep 30 22:45		0.55127 AU	evening rise	8905 Aug 03 02:42	0°m)	
inferior conj	8904 Oct 02 05:40	16° ⊆ 54'43		evening max el	8905 Aug 19 09:01	25° m) 18'56	21°12'03
minimum elong	8904 Oct 02 00:22	17° ⊆ 02'18		evening max er	8905 Aug 25 20:13	0° ⊽	21 12 03
morning rise	8904 Oct 10 16:13	13° Ω 06'20	0 20 10	desc. node	8905 Aug 27 11:46	0° م 38'19	
direct	8904 Oct 13 19:25	12° ≏ 43'43		retrograde	8905 Aug 31 08:07	1° ≏ 14'42	
morning max el	8904 Oct 25 02:50	18° ≏ 01'57	20°57'41	evening set	8905 Sep 02 17:17	1° ≏ 01'29	
asc. node	8904 Nov 02 03:22	28° ₽ 01'36			8905 Sep 06 04:08	30°R,™)	
	8904 Nov 03 09:18	0°M		inferior conj	8905 Sep 11 22:23	27° m 04'47	-4°20'32
morning set	8904 Nov 13 15:18	19° M 22'49		minimum elong	8905 Sep 11 12:44	27° m) 18'22	4°17'59
	8904 Nov 18 17:22	0° ∡ ¹		min. Earth dist.	8905 Sep 12 07:19	26° Mp 52'12	0.54655 AU
				morning rise	8905 Sep 20 08:45	23° TD 11'38	
superior conj	8904 Nov 21 00:12	4° ₹ 144'04	1°36'04	direct	8905 Sep 24 03:38	22° m 40'44	
minimum elong	8904 Nov 21 01:45	4° ≯ 52'03	1°36'12	morning max el	8905 Oct 06 21:53	28° m 45'32	22°36'18
max. Earth dist.	8904 Nov 25 19:22	14° ∡ °23'32	1.35644 AU		8905 Oct 08 04:23	0∘ ⊽	
evening rise	8904 Nov 29 19:39	22° ∡ *04'29		asc. node	8905 Oct 20 00:21	16° ≏ 27'44	
	8904 Dec 04 04:27	0° ろ		_	8905 Oct 27 01:58	0° M	
desc. node	8904 Dec 06 13:22	4°る07'00		morning set	8905 Oct 29 02:06	4° M 11′05	
	8904 Dec 23 13:20	0° ≈	26021151		000531 05 02 01	100 M 14121	1040150
evening max el	8905 Jan 04 06:40	13°≈43'36	26°21'51	superior conj	8905 Nov 05 03:01	19°M 14'31	1°40'50
retrograde	8905 Jan 17 03:01	20°≈58'59		minimum elong	8905 Nov 05 03:17	19°M15'54	1°41'01
evening set min. Earth dist.	8905 Jan 23 10:22 8905 Jan 27 14:04	18°≈26'16 14°≈07'41	0.66595 AU	max. Earth dist.	8905 Nov 08 11:30 8905 Nov 10 06:58	26°M₁7′23 0°⊀	1.33965 AU
inferior conj	8905 Jan 29 07:02	14 ≈0741 12°≈03'08	0°03'41	evening rise	8905 Nov 13 02:10	5° ∡ ¹34'40	
minimum elong	8905 Jan 29 06:55	12°≈03'08	0°03'49	desc. node	8905 Nov 23 10:24	24° × ⁷ 21'48	
transit middle	8905 Jan 29 06:55	12°≈03'28	0°03'49	desc. node	8905 Nov 26 21:10	0°る	
transit begin	8905 Jan 29 04:07	12°≈12'00	0 03 47	evening max el	8905 Dec 17 19:49	0 0 27° る 19'12	27°08'19
transit end	8905 Jan 29 09:44	11°≈54'56		evening man er	8905 Dec 20 20:26	0°≈	2, 0013
asc. node	8905 Jan 29 02:35	12° ≈ 16'41		retrograde	8905 Dec 31 05:06	4° ≈ 40'30	
morning rise	8905 Feb 04 04:19	6°≈18'27		evening set	8906 Jan 06 22:45	2° ≈ 04'57	
direct	8905 Feb 07 05:26	5° ≈ 26'06		C	8906 Jan 09 06:48	30°Ŗる	
morning max el	8905 Feb 13 19:42	8° ≈ 59'31	18°32'55	min. Earth dist.	8906 Jan 10 20:54	28° る 20'05	0.65216 AU
	8905 Feb 28 20:36	0°) €		inferior conj	8906 Jan 13 01:29	25°る53'05	-0°58'45
desc. node	8905 Mar 04 13:01	5°) 48′27		minimum elong	8906 Jan 13 03:13	25° る 48'12	0°57'47
morning set	8905 Mar 06 11:39	8°) 52′38		asc. node	8906 Jan 15 23:41	22° る 48'12	
	8905 Mar 19 22:07	0 ° Υ		morning rise	8906 Jan 19 09:05	20° る 20'38	
				direct	8906 Jan 22 01:10	19° る 42'35	
superior conj	8905 Mar 22 13:17	4° Υ 07'06		morning max el	8906 Jan 28 11:18	23° ろ 06'08	18°01'54
minimum elong	8905 Mar 22 04:02	3° Y 30′56	1°48'04		8906 Feb 03 00:33	0° ≈	
max. Earth dist.	8905 Mar 22 10:33	3° Y 56′26	1.45529 AU	morning set	8906 Feb 15 11:45	19° ≈ 52'01	
evening rise	8905 Apr 07 05:35	28° Y 48'46		desc. node	8906 Feb 19 09:55	26°≈18'02	
	8905 Apr 07 23:31	0° 8	0.0		8906 Feb 21 16:28	0°) €	
greatest brilliancy	8905 Apr 15 23:49	12° 8 42'03	-0.8m		9006 Mar 01 22:00	13°) 11′08	1011121
asc. node	8905 Apr 27 01:19 8905 Apr 28 06:11	28° 8 37'47 0° Ⅱ		superior conj minimum elong	8906 Mar 01 22:00 8906 Mar 01 13:57	13 X 11 08 12° X 39'16	
evening max el	8905 Apr 29 01:45	0° П 51'13	18°50'53	max. Earth dist.	8906 Mar 01 15.57 8906 Mar 05 05:58	18° X 26'15	1.45377 AU
retrograde	8905 May 05 18:42	4° П 34'07	10 30 33	max. Larm dist.	8906 Mar 12 15:53	0°Υ	1. 4 3377 AO
evening set	8905 May 09 02:39	3° Ⅱ 30'11		evening rise	8906 Mar 18 01:46	8° Υ ′22'21	
<i>8</i>	8905 May 12 21:12	30° ₹ 8		greatest brilliancy	8906 Mar 31 15:20	29° Y ′03'24	-0.7m
inferior conj	8905 May 14 16:23	27° 8 48'35	3°21'00	5	8906 Apr 01 06:39	0°8	
minimum elong	8905 May 14 16:50	27° 8 47'12	3°20'46	evening max el	8906 Apr 12 08:20	14° 8 29'41	19°39'10
min. Earth dist.	8905 May 16 10:51	25° 8 35'58	0.65825 AU	asc. node	8906 Apr 13 22:24	15° 8 59'08	
morning rise	8905 May 20 06:23	21° 8 29'46		retrograde	8906 Apr 19 16:20	18° 8 41'09	
direct	8905 May 26 17:03	18° 8 43'34		evening set	8906 Apr 23 08:36	17° 8 22'11	
desc. node	8905 May 31 12:52	20° 8 00'18		inferior conj	8906 Apr 28 17:49	11° 8 26'01	3°19'14
morning max el	8905 Jun 08 19:49		26°42'14	minimum elong	8906 Apr 28 17:05	11° 8 28'28	3°19'02
	8905 Jun 12 01:21	0°Щ		min. Earth dist.	8906 Apr 29 21:22	9° 8 54'32	0.67144 AU
	8905 Jul 03 05:37	0°®		morning rise	8906 May 04 01:13	5° 8 07'37	
morning set	8905 Jul 14 16:31	20°516'52	1 2 12 12 1	direct	8906 May 10 01:32	2° 8 27'09	
max. Earth dist.	8905 Jul 18 20:33	28° © 23'14	1.34313 AU	desc. node	8906 May 18 09:51	6° 8 14'25	0.500=:05
	8905 Jul 19 15:55	0 $^{\circ}\Omega$		morning max el	8906 May 22 05:38	9° 8 44'55	25°27'28
gunorier con:	2005 Jul 22 10:10	70 0 41112	0006100		8906 Jun 07 05:32	$\Pi^{\circ 0}$	
superior conj minimum elong	8905 Jul 23 10:10 8905 Jul 23 10:31	7° Ω 41'12 7° Ω 42'59		morning set	8906 Jun 25 19:53 8906 Jun 27 07:56	0°ഇ 2° ഇ 41'50	
behind sun begin	8905 Jul 23 10:31 8905 Jul 23 05:08	7° Ω 15'04	0 00 00	max. Earth dist.	8906 Jun 30 23:55	9°\$27'58	1.36153 AU
behind sun eedli	8905 Jul 23 15:54	8° Ω 10'57		max. Dartii Uist.	5700 Juli 30 23.33) '2 130	1.50133 AU
ociniia sun ciia	5,05 au 25 15.54	0 00103/					

superior conj	8906 Jul 07 01:05	21° © 11'58	0027120	superior conj	8907 Jun 20 03:36	4°904'24	1000/41
	8906 Jul 07 01:03 8906 Jul 07 03:22	21°S23'20		minimum elong	8907 Jun 20 08:00	4°925'21	1°09'14
minimum elong asc. node	8906 Jul 10 21:30	21 \$2320 28°\$58'30	0 3/10	asc. node	8907 Jun 27 18:28	18°953'24	1 09 14
asc. node	8906 Jul 10 21:30 8906 Jul 11 09:33	28 \$3830 0°Ω		evening rise	8907 Jun 29 02:34	21°931'17	
avanina riaa	8906 Jul 11 09:33	7° Ω 37'50		evening rise	8907 Jul 29 02:34 8907 Jul 03 11:50	21 3 3117 0° Ω	
evening rise	8906 Jul 13 03:10 8906 Jul 27 11:10	0°m)		arranina may al	8907 Jul 05 11:30 8907 Jul 15 12:03	18°Ω10'30	18°57'58
avanina may al			10054145	evening max el		22° Ω 27'55	16 3/36
evening max el	8906 Aug 01 16:10	6° Mp 22'25	19°54'45	retrograde	8907 Jul 24 03:38		
retrograde	8906 Aug 11 22:43	11° Mp 26'58		evening set	8907 Jul 26 02:02	22° Ω 15'54	
evening set	8906 Aug 13 19:47	11° mp 17'33		desc. node	8907 Aug 01 06:01	19° Ω 25'46	0020142
desc. node	8906 Aug 14 08:54	11° Mp 11'24		inferior conj	8907 Aug 03 08:32	17° Ω 59'44	
inferior conj	8906 Aug 22 19:13	7° Mp 17'11		minimum elong	8907 Aug 03 06:53	18° Ω 02'37	0°38'15
minimum elong	8906 Aug 22 12:14	7° m) 27'47		min. Earth dist.	8907 Aug 06 08:27	15° Ω 54'29	0.56512 AU
min. Earth dist.	8906 Aug 24 18:06	6° Mp 06′03	0.55150 AU	morning rise	8907 Aug 11 08:33	13° Ω 05'47	
morning rise	8906 Aug 31 03:00	2°m/59'32		direct	8907 Aug 16 17:58	11° Ω 57'02	
direct	8906 Sep 04 16:36	2° Mp 13'52		morning max el	8907 Aug 30 23:41	19° Ω 16'48	26°00'34
morning max el	8906 Sep 18 10:22		24°22'35		8907 Sep 09 01:35	0°Щ	
	8906 Oct 03 21:09	0ಂ ರ		asc. node	8907 Sep 23 18:12	24° m 53'59	
asc. node	8906 Oct 06 21:17	5° ≏ 28'20			8907 Sep 26 06:19	0∘ ⊽	
morning set	8906 Oct 13 13:51	18° ≙ 59'55		morning set	8907 Sep 28 00:53	3° £ 44'07	
	8906 Oct 18 15:28	0°M₊					
				superior conj	8907 Oct 04 21:46	18° ≏ 46'49	1°31'31
superior conj	8906 Oct 20 10:57	3°M57'50	1°39'06	minimum elong	8907 Oct 04 20:03	18° ≙ 37'15	1°31'25
minimum elong	8906 Oct 20 10:04	3°M53'02	1°39'11	max. Earth dist.	8907 Oct 05 18:54	20° ≙ 43'37	1.31934 AU
max. Earth dist.	8906 Oct 22 12:00	8°M23'53	1.32722 AU		8907 Oct 10 01:03	0°M	
evening rise	8906 Oct 27 19:45	19°M34'06		evening rise	8907 Oct 11 21:17	3°M53'53	
	8906 Nov 02 03:55	0° √			8907 Oct 25 21:31	0° ∡ ¹	
desc. node	8906 Nov 10 07:29	14° √ 15'17		desc. node	8907 Oct 28 04:35	3° ∡ ³38'25	
	8906 Nov 21 00:52	0°ප		evening max el	8907 Nov 12 15:51	23° ҂ 11'40	27°18'43
evening max el	8906 Nov 30 07:42	10°る33'09	27°29'11		8907 Nov 23 10:27	0°ප	
retrograde	8906 Dec 14 00:27	17° る 51'59		retrograde	8907 Nov 26 12:11	0°る24'32	
evening set	8906 Dec 21 00:56	15° ♂ 21'16		C	8907 Nov 29 12:02	30°₽ ✓	
min. Earth dist.	8906 Dec 24 18:53	12° る 07'35	0.63514 AU	evening set	8907 Dec 03 13:39	28° х 07′52	
inferior conj	8906 Dec 27 10:34	9° ට 27'03	-2°07'19	min. Earth dist.	8907 Dec 07 06:20	25° √ 19'21	0.61553 AU
minimum elong	8906 Dec 27 14:36	9° ට 16'50	2°05'26	inferior conj	8907 Dec 10 07:09	22° х 36′59	-3°18'47
asc. node	8907 Jan 02 20:45	4° ට 19'37		minimum elong	8907 Dec 10 13:30	22° х 22'48	3°16'20
morning rise	8907 Jan 03 06:12	4° ට 09'55		morning rise	8907 Dec 17 15:38	17° × 38'40	
direct	8907 Jan 05 15:31	3°₹42'14		direct	8907 Dec 19 20:55	17° × 17'45	
morning max el	8907 Jan 12 04:41	7° る 05'28	17°48'11	asc. node	8907 Dec 20 17:47	17° × ⁷ 21'04	
morning max er	8907 Jan 27 08:35	0°≈	17 4011	morning max el	8907 Dec 26 20:43		17°52'38
morning set	8907 Jan 28 14:33	2°≈09'14		morning max er	8908 Jan 02 18:07	0°る	17 32 30
desc. node	8907 Feb 06 06:49	16°≈56'16		morning set	8908 Jan 11 13:34	15° ට 23'49	
desc. Hode	8907 100 00 00.49	10 ~30 10		morning set	8908 Jan 19 17:18	13 O 23 49 0°≈	
superior conj	8907 Feb 10 01:29	23° ≈ 11'40	0°27'30		0900 Jan 19 17.10	0 ~	
minimum elong	8907 Feb 10 01:29 8907 Feb 09 22:32	23 ≈1140 22°≈59'31		superior conj	8908 Jan 22 06:29	4° ≈ 25'53	0°14'02
minimum ciong	8907 Feb	0° ∺	0 20 34	minimum elong	8908 Jan 22 07:45	4 ≈23 33 4°≈31'17	0°14'03
max. Earth dist.	8907 Feb 16 00:28	0 X 2° ¥ 49'18	1.44506 AU	_	8908 Jan 22 03:39	4 ≈3117 4°≈13'41	0 1403
evening rise	8907 Feb 10 00:28 8907 Feb 25 13:01	17°) 42'24	1.44300 AU	behind sun begin behind sun end	8908 Jan 22 11:50	4 ≈1341 4°≈48'51	
evening rise		17 γ (42 24 0° γ		desc. node			
evening max el	8907 Mar 05 15:33 8907 Mar 26 09:31	0° γ 28° Υ 09'46	20°41'47	max. Earth dist.	8908 Jan 24 03:46 8908 Jan 29 15:38	7°≈39'37 16°≈49'20	1.43008 AU
evening max er			20 41 47				1.43008 AU
aga nada	8907 Mar 28 08:28	0° と 2° と 18'38		evening rise	8908 Feb 05 06:43 8908 Feb 06 22:05	27° ≈ 26'21 0°) €	
asc. node	8907 Mar 31 19:30					0° Υ	
retrograde	8907 Apr 03 14:51	2° 8 58'18			8908 Feb 27 10:25		21055112
evening set	8907 Apr 07 16:29	1° 8 23'55		evening max el	8908 Mar 08 05:20	11° Υ 51'18	21°55'13
	8907 Apr 09 05:09	30°RƳ		retrograde	8908 Mar 17 12:31	17° Y 21'38	
inferior conj	8907 Apr 12 23:46	25°Υ15'00		asc. node	8908 Mar 17 16:36	17° Υ 21'29	
minimum elong	8907 Apr 12 22:09	25° Y 20'34		evening set	8908 Mar 22 00:36	15° Y 31'54	
min. Earth dist.	8907 Apr 13 13:25	24°Υ28'02	0.68015 AU	inferior conj	8908 Mar 27 08:06	9°Υ12'38	2°41'34
morning rise	8907 Apr 18 03:37	18° Y 59'16		minimum elong	8908 Mar 27 05:59	9° Y 20′04	2°41'03
direct	8907 Apr 23 15:05	16° Y 33′22		min. Earth dist.	8908 Mar 27 08:55	9° Y 09'50	0.68439 AU
morning max el	8907 May 04 14:41	23° ℃ 07'11	24°00'21	morning rise	8908 Apr 01 11:12	3° ℃ 01'01	
desc. node	8907 May 05 06:47	23° Y 48'33		direct	8908 Apr 06 08:47	0° Y 55'04	
	8907 May 10 16:13	0°B		morning max el	8908 Apr 16 01:31	6° Ƴ 37'46	22°30'50
	8907 May 31 14:08	$\Pi^{\circ}0$		desc. node	8908 Apr 21 03:43	12° Υ 21'02	
morning set	8907 Jun 09 03:07	14° Ⅱ 07'37			8908 May 04 02:49	0°8	
max. Earth dist.	8907 Jun 12 20:56	20° Ⅱ 40′29	1.38321 AU	morning set	8908 May 19 20:56	24° 8 22'13	
	8907 Jun 17 23:41	0 \circ \odot			8908 May 23 06:35	Π °0	
				max. Earth dist.	8908 May 24 18:37	2° Ⅱ 31'55	1.40581 AU

	0000 1 01 12 21	1.00 T 00140	1020124		0000 M 14 02 11	270 🗸 1 4122	2002120
superior conj	8908 Jun 01 13:31	16° Ⅱ 08'48		superior conj	8909 May 14 02:11	27° 8 14'33	
minimum elong	8908 Jun 01 19:25	16° Ⅱ 35'23	1°39'07	minimum elong	8909 May 14 07:19	27° 8 36'28	2°02'21
	8908 Jun 09 01:41	0°©			8909 May 15 16:47	0°П	
evening rise	8908 Jun 11 16:12	4° © 54'25		evening rise	8909 May 25 15:54	17° Ⅲ 36'40	
asc. node	8908 Jun 13 15:29	8°936'33		asc. node	8909 May 31 12:31	28° ∏ 02'41	
	8908 Jun 27 02:43	$0^{\circ}\Omega$			8909 Jun 01 15:43	0 \circ \odot	
evening max el	8908 Jun 27 17:32	0° Ω 37'52	18°22'02	evening max el	8909 Jun 11 04:48	13° © 35'08	18°06'06
retrograde	8908 Jul 05 03:50	4° Ω 21'16		retrograde	8909 Jun 17 21:14	16° © 59'54	
evening set	8908 Jul 07 08:46	4° Ω 02'24		evening set	8909 Jun 20 09:48	16° ഇ 30'50	
	8908 Jul 14 02:55	30° ₹ ∽		inferior conj	8909 Jun 27 03:00	11° © 34'34	2°08'23
inferior conj	8908 Jul 14 19:31	29° 5 26'06	0°58'24	minimum elong	8909 Jun 27 05:59	11° © 27'27	2°07'19
minimum elong	8908 Jul 14 21:28	29° © 22'07	0°57'30	min. Earth dist.	8909 Jun 30 08:29	8° © 31'15	0.60711 AU
min. Earth dist.	8908 Jul 18 04:35	26°5940'44	0.58476 AU	morning rise	8909 Jul 03 23:31	5° © 39'31	
desc. node	8908 Jul 18 03:06	26° © 43'37		desc. node	8909 Jul 05 00:10	5° © 02'29	
morning rise	8908 Jul 22 06:46	23° © 56'44		direct	8909 Jul 10 13:45	3° © 30'15	
direct	8908 Jul 28 09:34	22° © 17'59		morning max el	8909 Jul 24 21:02	11° 5 28'38	27°51'39
	8908 Aug 11 18:18	$0^{\circ}\Omega$			8909 Aug 08 09:55	$0^{\circ}\Omega$	
morning max el	8908 Aug 11 18:56	0° Ω 01'34	27°13'47		8909 Aug 25 07:02	O° Mp	
S	8908 Sep 02 01:19	0° m p		morning set	8909 Aug 26 14:08	2° m/39'43	
asc. node	8908 Sep 09 15:08	14° m) 37'51		asc. node	8909 Aug 27 12:06	4° m) 34'12	
morning set	8908 Sep 11 09:35	18° m) 19'07		max. Earth dist.	8909 Sep 01 13:55	15° mp 30'01	1.31736 AU
morning sec	8908 Sep 16 18:42	0∘ ರ		max. Dartii dist.	0707 Бер 01 15.55	15 19 50 01	1.51750710
	0700 Sep 10 10.42	٥ –		superior conj	8909 Sep 02 20:36	18° m) 19'05	1°00'32
superior conj	8908 Sep 18 09:35	3° Ω 35'44	1°18'32	minimum elong	8909 Sep 02 18:25	18° Mp 07'02	1°00'06
minimum elong	8908 Sep 18 07:24	3° £ 23'35	1°18'14	minimum clong	8909 Sep 08 03:50	18 IIĮ0702 0° <u>Ω</u>	1 00 00
•							
max. Earth dist.	8908 Sep 18 04:48	3° <u>₽</u> 09'09	1.31603 AU	evening rise	8909 Sep 09 14:32	3° Ω 07'31	
evening rise	8908 Sep 25 04:16	18° £ 27'04			8909 Sep 23 20:45	0°M	
	8908 Sep 30 20:07	0°M		desc. node	8909 Sep 30 22:49	10°M00'31	25010152
desc. node	8908 Oct 14 01:42	22°M19'01		evening max el	8909 Oct 06 10:54	16°M03'46	25°18'53
	8908 Oct 19 23:22	0° ∡ 7		retrograde	8909 Oct 20 08:27	23°M04'27	
evening max el	8908 Oct 24 17:22	5° ₹ 02'47	26°34'13	evening set	8909 Oct 26 05:09	21°M45'41	
retrograde	8908 Nov 07 15:21	12° ₹ 09'49		min. Earth dist.	8909 Oct 30 22:51	19°M06'13	0.57441 AU
evening set	8908 Nov 14 08:37	10° ₹ 17'40		inferior conj	8909 Nov 02 21:11	17°M07'11	
min. Earth dist.	8908 Nov 18 07:01	7° ∡ ¹42'26	0.59458 AU	minimum elong	8909 Nov 03 02:45	16°M57'43	5°18'14
inferior conj	8908 Nov 21 11:43	5° х 13′09	-4°26'44	morning rise	8909 Nov 11 02:42	12°M53'27	
minimum elong	8908 Nov 21 19:14	4° ≯ 758'30	4°24'33	direct	8909 Nov 13 11:59	12°M36'31	
morning rise	8908 Nov 29 08:17	0° ∡ ³36'48		morning max el	8909 Nov 22 10:37	16° ™ 53'31	19°01'24
direct	8908 Dec 01 13:09	0° ∡ 19'25		asc. node	8909 Nov 23 11:51	17° M 57′22	
asc. node	8908 Dec 06 14:50	1° ∡ ¹56'59			8909 Dec 01 20:53	0° ∡ 7	
morning max el	8908 Dec 09 07:56	4° ⋌ ¹08'54	18°16'29	morning set	8909 Dec 09 01:52	13° ∡ ³37'37	
morning set	8908 Dec 25 02:49	29° ⊀ 17'26					
	8908 Dec 25 11:48	5°0		superior conj	8909 Dec 17 10:11	0° る 00'35	1°13'25
				minimum elong	8909 Dec 17 13:22	0° る 15'50	1°13'17
superior conj	8909 Jan 03 11:00	16° පි 46'45	0°48'09		8909 Dec 17 10:03	0°ප	
minimum elong	8909 Jan 03 14:08	17° පි 00'58	0°47'56	max. Earth dist.	8909 Dec 24 07:28	12° る 47'12	1.38901 AU
desc. node	8909 Jan 10 00:44	28° る 23'58		desc. node	8909 Dec 27 21:44	19° ろ 06'03	
	8909 Jan 10 23:12	0° ≈		evening rise	8909 Dec 28 03:29	19° る 30'51	
max. Earth dist.	8909 Jan 11 01:30	0° ≈ 09'49	1.41060 AU	Č	8910 Jan 03 10:47	0° ≈	
evening rise	8909 Jan 15 18:09	7° ≈ 59'17			8910 Jan 24 05:18	0°) €	
Č	8909 Jan 30 00:19	0°) €		evening max el	8910 Feb 01 10:35	9°) €21'27	24°34'08
evening max el	8909 Feb 18 20:58	25°) 34'37	23°14'43	retrograde	8910 Feb 12 23:24	16° ¥ 06'00	
evening man er	8909 Feb 24 04:04	0°Υ	23 1	evening set	8910 Feb 18 11:17	13°) (48'33	
retrograde	8909 Mar 01 07:47	1° Y 45'47		asc. node	8910 Feb 19 10:52	12°) 54'02	
asc. node	8909 Mar 04 13:44	0° Υ 53'59		min. Earth dist.	8910 Feb 23 01:31	8° \() 35'12	0.68021 AU
asc. Houc	8909 Mar 05 22:16	30° ₹		inferior conj	8910 Feb 24 00:12	7° ¥ 19'30	1°26'31
ovening get	8909 Mar 06 07:23	29°) (41'26		minimum elong	8910 Feb 23 22:22		1°25'57
evening set		23° H 53'37	0.68432 AU	•		1° X 19'53	1 23 37
min. Earth dist.	8909 Mar 11 05:42			morning rise	8910 Mar 01 09:37		
inferior conj	8909 Mar 11 16:52	23°¥15′08	2°08'24	direct	8910 Mar 04 13:25	30°R≈ 20°2057!40	
minimum elong	8909 Mar 11 14:39	23°) 22'47	2°07'46	direct	8910 Mar 05 04:27	29°≈57'49	
morning rise	8909 Mar 16 21:51	17°) (08'48			8910 Mar 05 19:39	0°)(1005511.4
direct	8909 Mar 21 05:38	15°) €24'59	2100	morning max el	8910 Mar 12 16:36	4° ★ 10'31	19~55'14
morning max el	8909 Mar 29 17:21		21°07'11	desc. node	8910 Mar 25 21:34	21°) (20'09	
_	8909 Apr 06 20:17	0° Υ			8910 Mar 31 17:25	0° Υ	
desc. node	8909 Apr 08 00:39	1° Y 35′21		morning set	8910 Apr 08 10:21	11° Y 44'58	
	8909 Apr 27 07:41	0°8		max. Earth dist.	8910 Apr 19 07:52	28° Y 47'54	1.44275 AU
morning set	8909 Apr 29 11:56	3° 8 23'56			8910 Apr 20 01:58	0° 8	
max. Earth dist.	8909 May 06 21:42	15° 8 15'04	1.42647 AU				

superior conj	8910 Apr 24 14:21	7° 8 16'25	-2°12'16	morning set	8911 Mar 18 15:39	20°) (34′07	
minimum elong	8910 Apr 24 14:44	7° 8 17'59		morning set	8911 Mar 24 17:04	20 γ (3407	
evening rise	8910 May 07 20:55	29° 8 27'27	2 12 23	max. Earth dist.	8911 Apr 02 00:10	12° Υ 58'07	1.45278 AU
e vennig 1150	8910 May 08 04:32	0°II		man. Barar alov.	0,111.pr 02 00.10	12 (000)	1.10270110
asc. node	8910 May 18 09:36	17° I 105'33		superior conj	8911 Apr 04 04:35	16° Y 24'16	-2°03'14
evening max el	8910 May 25 18:18	26° Ⅱ 53'03	18°09'14	minimum elong	8911 Apr 03 21:51	15° Y 57'46	
<i>8</i>	8910 May 30 12:12	0ಂತಾ			8911 Apr 12 17:51	0°8	
retrograde	8910 Jun 01 03:29	0°ഇ13'59		evening rise	8911 Apr 19 03:13	10° 8 20'01	
C	8910 Jun 02 18:46	30° Ŗ Ⅱ		Č	8911 May 01 09:10	0° I I	
evening set	8910 Jun 03 23:38	29° Ⅱ 32'18		asc. node	8911 May 05 06:41	5° ∏ 37'30	
inferior conj	8910 Jun 10 03:08	24° Ⅱ 17'18	2°52'34	evening max el	8911 May 09 06:57	10° Ⅱ 23'44	18°30'40
minimum elong	8910 Jun 10 05:32	24° Ⅱ 10'47	2°51'52	retrograde	8911 May 15 18:29	13° Ⅱ 54'44	
min. Earth dist.	8910 Jun 12 21:12	21° Ⅱ 19'49	0.62920 AU	evening set	8911 May 18 22:07	12° Ⅱ 59′01	
morning rise	8910 Jun 16 09:47	18° Ⅱ 07'17		inferior conj	8911 May 24 15:49	7° Ⅱ 26'37	3°15'33
desc. node	8910 Jun 21 21:14	15° Ⅱ 39'56		minimum elong	8911 May 24 17:01	7° Ⅲ 23′03	3°15'13
direct	8910 Jun 23 03:56	15° Ⅲ 34'41		min. Earth dist.	8911 May 26 19:03	4° Ⅱ 54'07	0.64872 AU
morning max el	8910 Jul 07 04:18	23° Ⅲ 37'40	27°51'09	morning rise	8911 May 30 11:04	1° Ⅱ 09'41	
	8910 Jul 12 20:57	0°€			8911 Jun 01 00:50	30° ₹ 8	
	8910 Aug 01 17:41	$0^{\circ}\Omega$		direct	8911 Jun 06 02:05	28° 8 25'09	
morning set	8910 Aug 10 12:17	16° Ω 38'36		desc. node	8911 Jun 08 18:15	28° 8 48'39	
asc. node	8910 Aug 14 09:01	24° Ω 37'24			8911 Jun 11 14:57	$\Pi^{\circ}0$	
max. Earth dist.	8910 Aug 15 18:17	27° Ω 34'03	1.32352 AU	morning max el	8911 Jun 19 14:19	6° Ⅲ 21'18	27°15'45
	8910 Aug 16 21:28	0° m		•	8911 Jul 07 17:06	0°ಲ	
	•				8911 Jul 24 23:34	$0^{\circ}\Omega$	
superior conj	8910 Aug 18 04:54	2° m 50'08	0°37'53	morning set	8911 Jul 25 01:23	0° Ω 08'52	
minimum elong	8910 Aug 18 03:14	2°Mp41'08	0°37'27	max. Earth dist.	8911 Jul 29 14:27	9° Ω 13'52	1.33464 AU
evening rise	8910 Aug 25 02:07	17° m 48'24		asc. node	8911 Aug 01 05:59	14° Ω 43'37	
-	8910 Aug 31 00:53	0° م			-		
desc. node	8910 Sep 17 19:58	26° ≏ 18'58		superior conj	8911 Aug 02 08:27	17° Ω 03'14	0°11'05
evening max el	8910 Sep 17 22:40	26° £ 25'31	23°43'28	minimum elong	8911 Aug 02 07:54	17° Ω 00'17	0°10'48
-	8910 Sep 22 06:28	0° M		behind sun begin	8911 Aug 02 03:46	16° Ω 38'25	
retrograde	8910 Oct 01 12:55	3°ML13'17		behind sun end	8911 Aug 02 12:02	17° Ω 22'11	
evening set	8910 Oct 06 01:05	2°M28'55			8911 Aug 08 09:54	0° m	
	8910 Oct 11 10:06	30° ₹ Ω		evening rise	8911 Aug 09 13:09	2° m 24'31	
min. Earth dist.	8910 Oct 12 08:59	29° ≙ 26'49	0.55793 AU		8911 Aug 24 20:41	0∘ ⊽	
inferior conj	8910 Oct 14 10:21	28° ≙ 12'53	-5°37'56	evening max el	8911 Aug 30 11:55	6° ≙ 38'10	22°04'25
minimum elong	8910 Oct 14 09:34	28° ≙ 14'03	5°37'49	desc. node	8911 Sep 04 17:04	10° ≙ 44'51	
morning rise	8910 Oct 22 20:06	24° ≙ 17'57		retrograde	8911 Sep 12 05:20	12° ≏ 57'59	
direct	8910 Oct 25 15:33	23° ≙ 58'11		evening set	8911 Sep 15 06:17	12° ≏ 37'27	
morning max el	8910 Nov 05 01:15	28° ≙ 52'05	20°08'50	min. Earth dist.	8911 Sep 23 16:52	8° ≏ 57'09	0.54825 AU
	8910 Nov 06 04:36	0°M		inferior conj	8911 Sep 24 07:25	8° ≏ 36'46	-5°04'46
asc. node	8910 Nov 10 08:52	5°M05'50		minimum elong	8911 Sep 23 23:25	8° ≏ 47'58	5°03'17
morning set	8910 Nov 23 07:22	28°M14'16		morning rise	8911 Oct 02 18:04	4° £ 49'00	
	8910 Nov 24 04:03	0°⊀		direct	8911 Oct 06 03:57	4° £ 23′13	
				morning max el	8911 Oct 18 02:38	10° ≏ 00'45	21°37'44
superior conj	8910 Nov 30 23:05	13° 渘 52'46	1°30'04	asc. node	8911 Oct 28 05:49	23° ≏ 07'28	
minimum elong	8910 Dec 01 01:21	14° 渘 104′10	1°30'07		8911 Nov 01 04:07	0° M	
max. Earth dist.	8910 Dec 06 14:00	24° ≯ 52'38	1.36775 AU	morning set	8911 Nov 07 16:50	13°M00'22	
	8910 Dec 09 07:50	0°₹					
evening rise	8910 Dec 10 09:14	1° る 55'53		superior conj	8911 Nov 14 21:45	28°M12′09	1°38'56
desc. node	8910 Dec 14 18:44	9° る 41'24		minimum elong	8911 Nov 14 22:45	28° ™ 17′22	1°39'05
	8910 Dec 27 13:22	0° ≈			8911 Nov 15 18:28	0° ∡ ″	
evening max el	8911 Jan 14 23:51	23° ≈ 09'51	25°46'30	max. Earth dist.	8911 Nov 19 01:59	6° ∡ ¹46′27	1.34891 AU
	8911 Jan 25 06:13	0° ℋ		evening rise	8911 Nov 23 07:50	15° ₹ 05'12	
retrograde	8911 Jan 27 10:14	0°) 16′42		desc. node	8911 Dec 01 15:45	0° る 05'27	
	8911 Jan 29 11:58	30°R ≈			8911 Dec 01 14:28	0°る	
evening set	8911 Feb 02 10:39	27° ≈ 48'40			8911 Dec 22 05:05	0° ≈	
asc. node	8911 Feb 06 08:00	23° ≈ 41'12		evening max el	8911 Dec 28 13:14	6° ≈ 53'00	26°44'21
min. Earth dist.	8911 Feb 06 18:03	23° ≈ 10′00	0.67222 AU	retrograde	8912 Jan 10 15:30	14° ≈ 11'12	
inferior conj	8911 Feb 08 04:13	21° ≈ 21'56	0°36'16	evening set	8912 Jan 17 03:37	11° ≈ 36′38	
minimum elong	8911 Feb 08 03:19	21° ≈ 24'48	0°36'04	min. Earth dist.	8912 Jan 21 04:56	7° ≈ 32'38	0.66053 AU
morning rise	8911 Feb 13 20:29	15° ≈ 31'01		inferior conj	8912 Jan 23 02:49	5° ≈ 17'51	-0°21'58
direct	8911 Feb 17 03:41	14° ≈ 28′35		minimum elong	8912 Jan 23 03:25	5° ≈ 16′03	0°21'30
morning max el	8911 Feb 23 23:36	18° ≈ 12'40	18°58'17	asc. node	8912 Jan 24 05:07	4° ≈ 01'24	
	8911 Mar 05 04:36	0°) €			8912 Jan 28 13:06	30°Rる	
greatest brilliancy	8911 Mar 10 01:05	7° ∺ 16'19	-0.8m	morning rise	8912 Jan 29 04:14	29° る 38'00	
desc. node	8911 Mar 12 18:28	11° ∺ 27'11		direct	8912 Feb 01 01:22	28° る 52'04	

	8912 Feb 04 15:34	0° ≈			8913 Jan 31 01:17	0° ≈	
morning max el	8912 Feb 07 12:47	0 ∞ 2°≈19'39	18°17'40	morning set	8913 Feb 07 10:48	0 ∞ 12°≈18'02	
morning max ci	8912 Feb 26 11:56	0°)	18 17 40	desc. node	8913 Feb 13 12:16	12 ≈ 18 02 22° ≈ 24'09	
morning set	8912 Feb 26 22:36	0°) 42'47		dese. Hode	8913 Feb 18 03:43	0° ∀	
desc. node	8912 Feb 27 15:21	1°) (49'59			0713100 10 03.13	٠ ,	
dese. Hode	0712100 27 13.21	1 /(4/3/		superior conj	8913 Feb 21 00:52	4°) €38'35	-0°53'02
superior conj	8912 Mar 13 09:37	25°) 13′51	-1°34'30	minimum elong	8913 Feb 20 18:51	4°) 14′27	
minimum elong	8912 Mar 13 00:03	24°) (36'21	1°33'29	max. Earth dist.	8913 Feb 25 15:20	11°) 57'38	1.45087 AU
max. Earth dist.	8912 Mar 14 19:45	27°) 27'31	1.45554 AU	evening rise	8913 Mar 09 00:54	29°) (40'49	
	8912 Mar 16 10:44	$0^{\circ}\Upsilon$		C	8913 Mar 09 05:54	$0^{\circ}\Upsilon$	
evening rise	8912 Mar 29 10:15	20° Ƴ 17'15		greatest brilliancy	8913 Mar 23 21:33	22° Y 04'57	-0.6m
•	8912 Apr 04 15:19	9° 8			8913 Mar 29 12:19	9° 8	
greatest brilliancy	8912 Apr 09 09:21	7° 8 21'07	-0.8m	evening max el	8913 Apr 04 20:28	7° と 38'58	20°04'10
asc. node	8912 Apr 21 03:47	23° 8 27'58		asc. node	8913 Apr 08 00:53	10° 8 24'50	
evening max el	8912 Apr 21 16:13	24° 8 00'08	19°09'31	retrograde	8913 Apr 12 12:57	12° 8 05'45	
retrograde	8912 Apr 28 14:33	27° 8 53'49		evening set	8913 Apr 16 09:02	10° 8 40'12	
evening set	8912 May 02 02:02	26° 8 43'20		inferior conj	8913 Apr 21 17:07	4° 8 38'04	3°14'45
inferior conj	8912 May 07 13:27	20° 8 55'09	3°21'50	minimum elong	8913 Apr 21 15:57	4° 8 41'58	3°14'31
minimum elong	8912 May 07 13:22	20° 8 55'26	3°21'39	min. Earth dist.	8913 Apr 22 14:33	3° 8 25'30	0.67565 AU
min. Earth dist.	8912 May 09 01:22	18° 8 59'40	0.66437 AU		8913 Apr 25 07:44	30° ₹Ƴ	
morning rise	8912 May 13 00:17	14° 8 36'17		morning rise	8913 Apr 26 22:37	28° Y 20′25	
direct	8912 May 19 06:51	11° 8 51'37		direct	8913 May 02 17:33	25° Y 45'29	
desc. node	8912 May 25 15:14	14° 8 03'51			8913 May 11 11:20	0°8	
morning max el	8912 Jun 01 00:47	19° 8 27'43	26°12'43	desc. node	8913 May 12 12:13	0° 8 55'05	
	8912 Jun 09 23:57	Π °0		morning max el	8913 May 14 10:23	2° 8 46'33	24°51'22
	8912 Jun 29 18:56	0 \circ \odot			8913 Jun 04 03:29	Π °0	
morning set	8912 Jul 07 01:57	13° © 00'44		morning set	8913 Jun 19 09:26	25° ∏ 02′18	
max. Earth dist.	8912 Jul 11 00:09	20° 5 29'02	1.35051 AU		8913 Jun 22 03:44	0 \circ	
	8912 Jul 15 18:44	0 ° Ω		max. Earth dist.	8913 Jun 23 00:08	1° 5 33'19	1.37044 AU
superior conj	8912 Jul 16 04:47	0° Ω 51'13		superior conj	8913 Jun 29 14:51	14° © 06'21	
minimum elong	8912 Jul 16 05:54	0° Ω 56'54	0°19'05	minimum elong	8913 Jun 29 18:02	14° © 21'58	0°50'52
asc. node	8912 Jul 18 02:56	4° Ω 48'29		asc. node	8913 Jul 04 23:54	24°5548'11	
evening rise	8912 Jul 23 21:35	16° Ω 49'26			8913 Jul 07 13:49	$0^{\circ}\Omega$	
	8912 Jul 30 13:21	0° т р		evening rise	8913 Jul 08 01:05	0° £ 56'32	
evening max el	8912 Aug 11 11:08	17° m) 16'18	20°36'40	evening max el	8913 Jul 24 23:53	28° Ω 38'42	19°28'01
desc. node	8912 Aug 21 14:10	22° m 47'53			8913 Jul 26 11:25	0° m	
retrograde	8912 Aug 22 17:31	22° m 51'11		retrograde	8913 Aug 03 13:24	3° Tp 22'28	
evening set	8912 Aug 24 19:28	22° m/40'33	2020120	evening set	8913 Aug 05 09:39	3° Mp 12'40	
inferior conj	8912 Sep 02 23:59	18° Mp 43'37		desc. node	8913 Aug 08 11:18	2° Mp 16'48	
minimum elong	8912 Sep 02 14:46	18° Mp 56'54			8913 Aug 12 17:06	30°R€	1044106
min. Earth dist.	8912 Sep 04 01:50		0.54753 AU	inferior conj	8913 Aug 14 02:44	29° Ω 06'35 29° Ω 14'08	
morning rise direct	8912 Sep 11 09:47	14° Mp 42'35		minimum elong min. Earth dist.	8913 Aug 13 22:02 8913 Aug 16 14:09	29° ∂ €1408 27° Ω 31'16	0.55629 AU
morning max el	8912 Sep 15 12:13 8912 Sep 28 18:02	14° Mp 06'34 20° Mp 29'30	23°21'29	morning rise	8913 Aug 22 07:52	24° Ω 33'46	0.33029 AU
morning max ci	8912 Oct 06 19:20	0° ʊ	23 21 29	direct	8913 Aug 27 05:38	24°€33'40 23°€33'40	
asc. node	8912 Oct 10 19:20 8912 Oct 14 02:45	0 = 11° £ 49'43		direct	8913 Sep 09 12:02	0° M)	
morning set	8912 Oct 22 04:17	27° £ 50'15		morning max el	8913 Sep 10 06:15	ريان 0° m و42'17	25°06'23
morning set	8912 Oct 23 04:38	0°M		morning max cr	8913 Sep 30 10:48	० । गू न <u>२</u> 17	25 00 25
	3, 12 300 23 01.30	~ IIV		asc. node	8913 Sep 30 10:40	° - 1° - 02'02	
superior conj	8912 Oct 29 03:05	12° M 49'37	1°40'51	morning set	8913 Oct 06 15:56	12° £ 38'04	
minimum elong	8912 Oct 29 02:50	12°M48'15	1°41'00				
max. Earth dist.	8912 Oct 31 21:57	18°M46'15	1.33383 AU	superior conj	8913 Oct 13 12:31	27° ≏ 36'40	1°36'34
evening rise	8912 Nov 05 19:28	28°M49'17		minimum elong	8913 Oct 13 11:14	27° ≏ 29'37	
<i>8</i> 11	8912 Nov 06 09:44	0° ⊼			8913 Oct 14 14:40	0°M	
desc. node	8912 Nov 17 12:47	20° ≯ 12'37		max. Earth dist.	8913 Oct 15 01:21	0°M58'23	1.32325 AU
	8912 Nov 23 17:54	5°0		evening rise	8913 Oct 20 16:46	12°M58'31	
evening max el	8912 Dec 10 01:59	20° ප් 21'06	27°20'36	-	8913 Oct 29 13:10	0° ∡ ¹	
retrograde	8912 Dec 23 14:44	27° ප් 42'03		desc. node	8913 Nov 04 09:52	9° ∡ 54'44	
evening set	8912 Dec 30 12:02	25° පි 07'12			8913 Nov 19 05:30	8°0	
min. Earth dist.	8913 Jan 03 08:05	21° る 36'25	0.64532 AU	evening max el	8913 Nov 22 12:22	3° ට 21'10	27°28'45
inferior conj	8913 Jan 05 17:38	19° る 02'17	-1°27'14	retrograde	8913 Dec 06 07:13	10° る 38'38	
minimum elong	8913 Jan 05 20:19	18° る 55'06	1°25'52	evening set	8913 Dec 13 09:00	8° る 12'23	
asc. node	8913 Jan 10 02:11	14° そ 53'36		min. Earth dist.	8913 Dec 17 01:43	5° ರ 10'34	0.62704 AU
morning rise	8913 Jan 12 06:13	13° පි 36'16		inferior conj	8913 Dec 19 21:48	2° පි 27'15	-2°37'33
direct	8913 Jan 14 19:10	13° る 03'05		minimum elong	8913 Dec 20 02:52	2° る 15'04	2°35'22
morning max el	8913 Jan 21 05:37	16° る 25'06	17°53'59		8913 Dec 22 14:10	30°₽ ✓	

morning rise	8913 Dec 26 22:56	27° ∡ 18′00		min. Earth dist.	8914 Nov 29 08:48	100,702!16	0.60669 AU
asc. node	8913 Dec 27 23:14	27° x 1800 27° x 01'25			8914 Nov 29 08:48 8914 Dec 02 12:03	15° × 24'27	
direct	8913 Dec 27 23:14 8913 Dec 29 06:01	26° x 53'46		inferior conj minimum elong	8914 Dec 02 12:03 8914 Dec 02 19:07	15° × 2427 15° × 09'29	
direct	8914 Jan 04 14:45	20 x 33 40 0°る		morning rise	8914 Dec 02 19.07 8914 Dec 10 01:54	13 x 109 29 10° x 34'57	3 40 08
mamina may al	8914 Jan 04 14.45		17°47'48	direct	8914 Dec 10 01:34 8914 Dec 12 06:22	10° x ° 34° 37 10° x ° 16'00	
morning max el	8914 Jan 20 23:00	0 31942 25° 3 02'00	1/4/48	asc. node	8914 Dec 12 06.22 8914 Dec 14 20:17	10° x 10'00' 10° x 43'32	
morning set	8914 Jan 23 18:47	23 3 02 00 0° ≈				10 x 43 32	10000!11
desc. node				morning max el	8914 Dec 19 13:21	13° X '34'3/	18-00-11
desc. node	8914 Jan 31 09:11	13° ≈ 05′03			8914 Dec 30 11:54		
	001451 01 15 05	150 - 10126	0000112	morning set	8915 Jan 04 04:43	8° る 35'09	
superior conj	8914 Feb 01 15:05	15°≈10'36			0015 1 14 06 24	260=54122	0020122
minimum elong	8914 Feb 01 14:11	15°≈06'48	0°08'54	superior conj	8915 Jan 14 06:34	26°₹54'22	0°29'32
behind sun begin	8914 Feb 01 06:32	14°≈34'48		minimum elong	8915 Jan 14 08:53	27° る 04'37	0°29'25
behind sun end	8914 Feb 01 21:49	15° ≈ 38'44			8915 Jan 16 00:58	0° ≈	
max. Earth dist.	8914 Feb 08 08:05	26°≈10'38	1.43935 AU	desc. node	8915 Jan 18 06:08	3°≈49'09	
	8914 Feb 10 17:29	0° ∀		max. Earth dist.	8915 Jan 21 20:45	9° ≈ 54'00	1.42228 AU
evening rise	8914 Feb 16 13:01	9° ∺ 06'23		evening rise	8915 Jan 27 13:20	19° ≈ 09'22	
	8914 Mar 02 11:09	0° Υ			8915 Feb 03 12:36	0° ∀	
evening max el	8914 Mar 18 19:12	21° Y °19'10	21°11'59		8915 Feb 25 00:38	0° Ƴ	
asc. node	8914 Mar 25 22:00	26° Ƴ 13'29		evening max el	8915 Mar 01 13:08	5° Y ′01'42	22°28'44
retrograde	8914 Mar 27 11:22	26° Y 25'44		retrograde	8915 Mar 11 08:07	10° Ƴ 49'38	
evening set	8914 Mar 31 17:12	24° Ƴ 44'59		asc. node	8915 Mar 12 19:09	10° Ƴ 38'58	
inferior conj	8914 Apr 06 00:21	18° Ƴ 31'17	2°56'33	evening set	8915 Mar 16 00:56	8° Y ′53'48	
minimum elong	8914 Apr 05 22:28	18° Y 37'49	2°56'08	inferior conj	8915 Mar 21 09:06	2° Y 31'17	2°28'36
min. Earth dist.	8914 Apr 06 08:28	18° Ƴ 03'04	0.68245 AU	minimum elong	8915 Mar 21 06:53	2° Y 39'01	2°28'00
morning rise	8914 Apr 11 03:31	12° Ƴ 16′52		min. Earth dist.	8915 Mar 21 04:49	2° Y 46'10	0.68490 AU
direct	8914 Apr 16 09:05	9° Y 58'51			8915 Mar 23 05:31	30°Ŗ ℋ	
morning max el	8914 Apr 26 19:47	16° Ƴ 12'02	23°21'58	morning rise	8915 Mar 26 12:41	26° ¥ 21'41	
desc. node	8914 Apr 29 09:11	18° Ƴ 56'15		direct	8915 Mar 31 04:25	24°) €24'46	
	8914 May 08 04:21	0°8		morning max el	8915 Apr 09 08:08	29°) 45'35	21°54'00
	8914 May 28 03:38	0°Щ			8915 Apr 09 13:50	0° Υ	
morning set	8914 May 31 18:26	5° ∏ 59'28		desc. node	8915 Apr 16 06:07	7° Υ '48'00	
max. Earth dist.	8914 Jun 04 20:00	12° I 56'50	1.39278 AU	dese. node	8915 May 01 22:22	0°8	
max. Earth dist.	07113411 01 20.00	12 25050	1.57270710	morning set	8915 May 12 00:25	15° 8 40'59	
superior conj	8914 Jun 12 10:53	26° Ⅱ 39'46	-1°22'54	max. Earth dist.	8915 May 17 19:24	25° 8 08'50	1.41499 AU
minimum elong	8914 Jun 12 16:04	20 H 3940 27° H 03'54		max. Earth dist.	8915 May 20 16:36	0°Ⅱ	1.41499 AU
minimum clong	8914 Jun 14 05:42	27 π 03 34 0° ©	1 22 24		6913 May 20 10.30	υд	
avanina riaa	8914 Jun 21 20:47	14° © 38'12		gumariar agni	9015 May 25 12:10	8° Ⅱ 20′22	1950/20
evening rise		14 938 12 14°938'48		superior conj	8915 May 25 12:19		
asc. node	8914 Jun 21 20:54	14°938'48 0°Ω		minimum elong	8915 May 25 18:17	8° Ⅱ 46'38 27° Ⅱ 44'42	1°50'09
	8914 Jun 30 04:17	0.47		evening rise	8915 Jun 05 04:59	2/° 11 44'42	
			10040110		0015 1 06 10 10	000	
evening max el	8914 Jul 08 00:26	10° Ω 45′25	18°40'19		8915 Jun 06 10:18	0°95	
retrograde	8914 Jul 08 00:26 8914 Jul 16 02:13	10° Ω 45'25 14° Ω 46'17	18°40'19	asc. node	8915 Jun 08 17:56	4° © 15'10	
retrograde evening set	8914 Jul 08 00:26 8914 Jul 16 02:13 8914 Jul 18 03:03	10° Ω 45'25 14° Ω 46'17 14° Ω 31'53		evening max el	8915 Jun 08 17:56 8915 Jun 21 08:54	4°©15'10 23°©26'39	18°12'57
retrograde evening set inferior conj	8914 Jul 08 00:26 8914 Jul 16 02:13 8914 Jul 18 03:03 8914 Jul 26 01:10	10° \(\Omega 45'25 \) 14° \(\Omega 46'17 \) 14° \(\Omega 31'53 \) 10° \(\Omega 07'49 \)	0°05'30	evening max el retrograde	8915 Jun 08 17:56 8915 Jun 21 08:54 8915 Jun 28 09:59	4°©15'10 23°©26'39 26°©59'53	18°12'57
retrograde evening set inferior conj minimum elong	8914 Jul 08 00:26 8914 Jul 16 02:13 8914 Jul 18 03:03 8914 Jul 26 01:10 8914 Jul 26 01:22	10°\Omega45'25 14°\Omega46'17 14°\Omega31'53 10°\Omega07'49 10°\Omega07'25	0°05'30 0°05'14	evening max el retrograde evening set	8915 Jun 08 17:56 8915 Jun 21 08:54 8915 Jun 28 09:59 8915 Jun 30 18:19	4°S15'10 23°S26'39 26°S59'53 26°S36'54	
retrograde evening set inferior conj minimum elong transit middle	8914 Jul 08 00:26 8914 Jul 16 02:13 8914 Jul 18 03:03 8914 Jul 26 01:10 8914 Jul 26 01:22 8914 Jul 26 01:22	10° Ω45'25 14° Ω46'17 14° Ω31'53 10° Ω07'49 10° Ω07'25 10° Ω07'25	0°05'30	evening max el retrograde evening set inferior conj	8915 Jun 08 17:56 8915 Jun 21 08:54 8915 Jun 28 09:59 8915 Jun 30 18:19 8915 Jul 07 21:10	4°\$15'10 23°\$26'39 26°\$59'53 26°\$36'54 21°\$51'59	1°31'30
retrograde evening set inferior conj minimum elong	8914 Jul 08 00:26 8914 Jul 16 02:13 8914 Jul 18 03:03 8914 Jul 26 01:10 8914 Jul 26 01:22 8914 Jul 26 01:22 8914 Jul 25 21:55	10° Λ45'25 14° Λ46'17 14° Λ31'53 10° Λ07'49 10° Λ07'25 10° Λ07'25 10° Λ13'54	0°05'30 0°05'14	evening max el retrograde evening set inferior conj minimum elong	8915 Jun 08 17:56 8915 Jun 21 08:54 8915 Jun 28 09:59 8915 Jun 30 18:19 8915 Jul 07 21:10 8915 Jul 07 23:49	4°S15'10 23°S26'39 26°S59'53 26°S36'54	1°31'30 1°30'23
retrograde evening set inferior conj minimum elong transit middle transit begin transit end	8914 Jul 08 00:26 8914 Jul 16 02:13 8914 Jul 18 03:03 8914 Jul 26 01:10 8914 Jul 26 01:22 8914 Jul 26 01:22 8914 Jul 25 21:55 8914 Jul 26 04:50	10° \$\alpha 45'25\$ 14° \$\alpha 46'17\$ 14° \$\alpha 31'53\$ 10° \$\alpha 07'49\$ 10° \$\alpha 07'25\$ 10° \$\alpha 07'25\$ 10° \$\alpha 13'54\$ 10° \$\alpha 00'56\$	0°05'30 0°05'14	evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	8915 Jun 08 17:56 8915 Jun 21 08:54 8915 Jun 28 09:59 8915 Jun 30 18:19 8915 Jul 07 21:10 8915 Jul 07 23:49 8915 Jul 11 06:01	4°915'10 23°926'39 26°959'53 26°936'54 21°951'59 21°946'10 18°956'11	1°31'30
retrograde evening set inferior conj minimum elong transit middle transit begin transit end desc. node	8914 Jul 08 00:26 8914 Jul 16 02:13 8914 Jul 18 03:03 8914 Jul 26 01:10 8914 Jul 26 01:22 8914 Jul 26 01:22 8914 Jul 25 21:55 8914 Jul 26 04:50 8914 Jul 26 08:26	10° \$\alpha 45'25\$ 14° \$\alpha 46'17\$ 14° \$\alpha 31'53\$ 10° \$\alpha 07'49\$ 10° \$\alpha 07'25\$ 10° \$\alpha 07'25\$ 10° \$\alpha 13'54\$ 10° \$\alpha 00'56\$ 9° \$\alpha 54'09\$	0°05'30 0°05'14 0°05'14	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node	8915 Jun 08 17:56 8915 Jun 21 08:54 8915 Jun 28 09:59 8915 Jun 30 18:19 8915 Jul 07 21:10 8915 Jul 07 23:49	4°\$15'10 23°\$26'39 26°\$59'53 26°\$36'54 21°\$51'59 21°\$46'10 18°\$56'11 17°\$23'37	1°31'30 1°30'23
retrograde evening set inferior conj minimum elong transit middle transit begin transit end	8914 Jul 08 00:26 8914 Jul 16 02:13 8914 Jul 18 03:03 8914 Jul 26 01:10 8914 Jul 26 01:22 8914 Jul 26 01:22 8914 Jul 25 21:55 8914 Jul 26 04:50	10° A45'25 14° A46'17 14° A31'53 10° A07'49 10° A07'25 10° A07'25 10° A05'54 10° A00'56 9° A54'09 7° A42'53	0°05'30 0°05'14	evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	8915 Jun 08 17:56 8915 Jun 21 08:54 8915 Jun 28 09:59 8915 Jun 30 18:19 8915 Jul 07 21:10 8915 Jul 07 23:49 8915 Jul 11 06:01	4°515'10 23°526'39 26°559'53 26°536'54 21°551'59 21°546'10 18°556'11	1°31'30 1°30'23
retrograde evening set inferior conj minimum elong transit middle transit begin transit end desc. node	8914 Jul 08 00:26 8914 Jul 16 02:13 8914 Jul 18 03:03 8914 Jul 26 01:10 8914 Jul 26 01:22 8914 Jul 26 01:22 8914 Jul 25 21:55 8914 Jul 26 04:50 8914 Jul 26 08:26	10° \$\alpha 45'25\$ 14° \$\alpha 46'17\$ 14° \$\alpha 31'53\$ 10° \$\alpha 07'49\$ 10° \$\alpha 07'25\$ 10° \$\alpha 07'25\$ 10° \$\alpha 13'54\$ 10° \$\alpha 00'56\$ 9° \$\alpha 54'09\$	0°05'30 0°05'14 0°05'14	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node	8915 Jun 08 17:56 8915 Jun 21 08:54 8915 Jun 28 09:59 8915 Jun 30 18:19 8915 Jul 07 21:10 8915 Jul 07 23:49 8915 Jul 11 06:01 8915 Jul 13 05:33 8915 Jul 15 02:14 8915 Jul 21 10:59	4°\$15'10 23°\$26'39 26°\$59'53 26°\$36'54 21°\$51'59 21°\$46'10 18°\$56'11 17°\$23'37	1°31'30 1°30'23
retrograde evening set inferior conj minimum elong transit middle transit begin transit end desc. node min. Earth dist.	8914 Jul 08 00:26 8914 Jul 16 02:13 8914 Jul 18 03:03 8914 Jul 26 01:10 8914 Jul 26 01:22 8914 Jul 26 01:22 8914 Jul 25 21:55 8914 Jul 26 04:50 8914 Jul 26 08:26 8914 Jul 29 07:02	10° A45'25 14° A46'17 14° A31'53 10° A07'49 10° A07'25 10° A07'25 10° A05'54 10° A00'56 9° A54'09 7° A42'53	0°05'30 0°05'14 0°05'14	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise	8915 Jun 08 17:56 8915 Jun 21 08:54 8915 Jun 28 09:59 8915 Jun 30 18:19 8915 Jul 07 21:10 8915 Jul 07 23:49 8915 Jul 11 06:01 8915 Jul 13 05:33 8915 Jul 15 02:14	4°515'10 23°526'39 26°559'53 26°536'54 21°551'59 21°546'10 18°556'11 17°523'37 16°510'44	1°31'30 1°30'23 0.59413 AU
retrograde evening set inferior conj minimum elong transit middle transit begin transit end desc. node min. Earth dist. morning rise	8914 Jul 08 00:26 8914 Jul 16 02:13 8914 Jul 18 03:03 8914 Jul 26 01:10 8914 Jul 26 01:22 8914 Jul 26 01:22 8914 Jul 25 21:55 8914 Jul 26 04:50 8914 Jul 26 08:26 8914 Jul 29 07:02 8914 Aug 02 20:11	10° A45'25 14° A46'17 14° A31'53 10° A07'49 10° A07'25 10° A13'54 10° A00'56 9° A54'09 7° A42'53 4° A57'57	0°05'30 0°05'14 0°05'14 0.57286 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct	8915 Jun 08 17:56 8915 Jun 21 08:54 8915 Jun 28 09:59 8915 Jun 30 18:19 8915 Jul 07 21:10 8915 Jul 07 23:49 8915 Jul 11 06:01 8915 Jul 13 05:33 8915 Jul 15 02:14 8915 Jul 21 10:59	4°515'10 23°526'39 26°559'53 26°536'54 21°551'59 21°546'10 18°556'11 17°523'37 16°510'44 14°518'33	1°31'30 1°30'23 0.59413 AU
retrograde evening set inferior conj minimum elong transit middle transit begin transit end desc. node min. Earth dist. morning rise direct	8914 Jul 08 00:26 8914 Jul 16 02:13 8914 Jul 18 03:03 8914 Jul 26 01:10 8914 Jul 26 01:22 8914 Jul 26 01:22 8914 Jul 26 04:50 8914 Jul 26 08:26 8914 Jul 29 07:02 8914 Aug 02 20:11 8914 Aug 08 13:42	10° A45'25 14° A46'17 14° A31'53 10° A07'49 10° A07'25 10° A07'25 10° A05'54 10° A05'54 10° A05'54 10° A35'37	0°05'30 0°05'14 0°05'14 0.57286 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct	8915 Jun 08 17:56 8915 Jun 21 08:54 8915 Jun 28 09:59 8915 Jun 30 18:19 8915 Jul 07 21:10 8915 Jul 07 23:49 8915 Jul 11 06:01 8915 Jul 13 05:33 8915 Jul 15 02:14 8915 Jul 21 10:59 8915 Aug 04 19:38	4°515'10 23°526'39 26°559'53 26°536'54 21°551'59 21°546'10 18°556'11 17°523'37 16°510'44 14°518'33 22°508'51	1°31'30 1°30'23 0.59413 AU
retrograde evening set inferior conj minimum elong transit middle transit begin transit end desc. node min. Earth dist. morning rise direct	8914 Jul 08 00:26 8914 Jul 16 02:13 8914 Jul 18 03:03 8914 Jul 26 01:10 8914 Jul 26 01:22 8914 Jul 26 01:22 8914 Jul 25 21:55 8914 Jul 26 04:50 8914 Jul 26 08:26 8914 Jul 29 07:02 8914 Aug 02 20:11 8914 Aug 08 13:42 8914 Aug 22 21:42	10° A45'25 14° A46'17 14° A31'53 10° A07'49 10° A07'25 10° A07'25 10° A03'54 10° A00'56 9° A54'09 7° A42'53 4° A57'57 3° A36'37 11° A08'18	0°05'30 0°05'14 0°05'14 0.57286 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct	8915 Jun 08 17:56 8915 Jun 21 08:54 8915 Jun 28 09:59 8915 Jun 30 18:19 8915 Jul 07 21:10 8915 Jul 07 23:49 8915 Jul 11 06:01 8915 Jul 13 05:33 8915 Jul 15 02:14 8915 Jul 21 10:59 8915 Aug 04 19:38 8915 Aug 11 17:34	4°\$15'10 23°\$26'39 26°\$59'53 26°\$36'54 21°\$51'59 21°\$46'10 18°\$56'11 17°\$23'37 16°\$10'44 14°\$18'33 22°\$08'51 0°\$\$\alpha\$	1°31'30 1°30'23 0.59413 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	8914 Jul 08 00:26 8914 Jul 16 02:13 8914 Jul 18 03:03 8914 Jul 26 01:10 8914 Jul 26 01:22 8914 Jul 26 01:22 8914 Jul 25 21:55 8914 Jul 26 04:50 8914 Jul 29 07:02 8914 Aug 02 20:11 8914 Aug 08 13:42 8914 Aug 22 21:42 8914 Sep 06 11:35	10° A45'25 14° A46'17 14° A31'53 10° A07'49 10° A07'25 10° A07'25 10° A05'54 10° A00'56 9° A54'09 7° A42'53 4° A57'57 3° A36'37 11° A08'18 0° M	0°05'30 0°05'14 0°05'14 0.57286 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el	8915 Jun 08 17:56 8915 Jun 21 08:54 8915 Jun 28 09:59 8915 Jun 30 18:19 8915 Jul 07 21:10 8915 Jul 07 23:49 8915 Jul 11 06:01 8915 Jul 13 05:33 8915 Jul 15 02:14 8915 Jul 21 10:59 8915 Aug 04 19:38 8915 Aug 11 17:34 8915 Aug 30 12:12	4°\$15'10 23°\$26'39 26°\$59'53 26°\$36'54 21°\$51'59 21°\$46'10 18°\$56'11 17°\$23'37 16°\$10'44 14°\$18'33 22°\$08'51 0°\$Ω 0°\$\$\mathbb{\text{N}}\$	1°31'30 1°30'23 0.59413 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	8914 Jul 08 00:26 8914 Jul 16 02:13 8914 Jul 18 03:03 8914 Jul 26 01:10 8914 Jul 26 01:22 8914 Jul 26 01:22 8914 Jul 25 21:55 8914 Jul 26 04:50 8914 Jul 26 08:26 8914 Jul 29 07:02 8914 Aug 02 20:11 8914 Aug 08 13:42 8914 Aug 22 21:42 8914 Sep 06 11:35 8914 Sep 17 20:37	10° A45'25 14° A46'17 14° A31'53 10° A07'49 10° A07'25 10° A07'25 10° A13'54 10° A00'56 9° A54'09 7° A42'53 4° A57'57 3° A36'37 11° A08'18 0° m 20° m36'32	0°05'30 0°05'14 0°05'14 0.57286 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el	8915 Jun 08 17:56 8915 Jun 21 08:54 8915 Jun 28 09:59 8915 Jun 30 18:19 8915 Jul 07 21:10 8915 Jul 07 23:49 8915 Jul 11 06:01 8915 Jul 13 05:33 8915 Jul 15 02:14 8915 Jul 21 10:59 8915 Aug 04 19:38 8915 Aug 11 17:34 8915 Aug 30 12:12 8915 Sep 04 17:33	4°\$15'10 23°\$26'39 26°\$59'53 26°\$36'54 21°\$51'59 21°\$46'10 18°\$56'11 17°\$23'37 16°\$10'44 14°\$18'33 22°\$08'51 0°\$\Omega\$ 0°\$\mathbf{m}\$25'59	1°31'30 1°30'23 0.59413 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	8914 Jul 08 00:26 8914 Jul 16 02:13 8914 Jul 18 03:03 8914 Jul 26 01:10 8914 Jul 26 01:22 8914 Jul 26 01:22 8914 Jul 25 21:55 8914 Jul 26 04:50 8914 Jul 26 08:26 8914 Jul 29 07:02 8914 Aug 02 20:11 8914 Aug 08 13:42 8914 Aug 22 21:42 8914 Sep 06 11:35 8914 Sep 17 20:37 8914 Sep 21 02:12	10° A45'25 14° A46'17 14° A31'53 10° A07'49 10° A07'25 10° A07'25 10° A13'54 10° A00'56 9° A54'09 7° A42'53 4° A57'57 3° A36'37 11° A08'18 0° m 20° m36'32 27° m 19'25	0°05'30 0°05'14 0°05'14 0.57286 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el	8915 Jun 08 17:56 8915 Jun 21 08:54 8915 Jun 28 09:59 8915 Jun 30 18:19 8915 Jul 07 21:10 8915 Jul 07 23:49 8915 Jul 11 06:01 8915 Jul 13 05:33 8915 Jul 15 02:14 8915 Jul 21 10:59 8915 Aug 04 19:38 8915 Aug 11 17:34 8915 Aug 30 12:12 8915 Sep 04 17:33	4°\$15'10 23°\$26'39 26°\$59'53 26°\$36'54 21°\$51'59 21°\$46'10 18°\$56'11 17°\$23'37 16°\$10'44 14°\$18'33 22°\$08'51 0°\$\Omega\$ 0°\$\mathbf{m}\$25'59	1°31'30 1°30'23 0.59413 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	8914 Jul 08 00:26 8914 Jul 16 02:13 8914 Jul 18 03:03 8914 Jul 26 01:10 8914 Jul 26 01:22 8914 Jul 26 01:22 8914 Jul 25 21:55 8914 Jul 26 04:50 8914 Jul 26 08:26 8914 Jul 29 07:02 8914 Aug 02 20:11 8914 Aug 08 13:42 8914 Aug 22 21:42 8914 Sep 06 11:35 8914 Sep 17 20:37 8914 Sep 21 02:12	10° A45'25 14° A46'17 14° A31'53 10° A07'49 10° A07'25 10° A07'25 10° A13'54 10° A00'56 9° A54'09 7° A42'53 4° A57'57 3° A36'37 11° A08'18 0° m 20° m36'32 27° m 19'25	0°05'30 0°05'14 0°05'14 0.57286 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set	8915 Jun 08 17:56 8915 Jun 21 08:54 8915 Jun 28 09:59 8915 Jun 30 18:19 8915 Jul 07 21:10 8915 Jul 07 23:49 8915 Jul 11 06:01 8915 Jul 13 05:33 8915 Jul 15 02:14 8915 Jul 21 10:59 8915 Aug 04 19:38 8915 Aug 11 17:34 8915 Aug 30 12:12 8915 Sep 04 17:33 8915 Sep 05 09:21	4°\$15'10 23°\$26'39 26°\$59'53 26°\$36'54 21°\$51'59 21°\$46'10 18°\$56'11 17°\$23'37 16°\$10'44 14°\$18'33 22°\$08'51 0°\$\$\$\$0"\$\$\$\$0"\$\$\$\$0"\$\$\$\$0"\$\$\$\$10"\$\$\$\$9\$\$11"\$\$\$\$\$0"\$\$\$9\$\$11"\$\$\$\$\$\$\$\$\$\$	1°31'30 1°30'23 0.59413 AU 27°34'35
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	8914 Jul 08 00:26 8914 Jul 16 02:13 8914 Jul 18 03:03 8914 Jul 26 01:10 8914 Jul 26 01:22 8914 Jul 26 01:22 8914 Jul 25 21:55 8914 Jul 26 04:50 8914 Jul 26 08:26 8914 Jul 29 07:02 8914 Aug 02 20:11 8914 Aug 08 13:42 8914 Sep 06 11:35 8914 Sep 17 20:37 8914 Sep 21 02:12 8914 Sep 22 08:12	10° A45'25 14° A46'17 14° A31'53 10° A07'49 10° A07'25 10° A07'25 10° A13'54 10° A00'56 9° A54'09 7° A42'53 4° A57'57 3° A36'37 11° A08'18 0° M 20° M36'32 27° M19'25 0° A	0°05'30 0°05'14 0°05'14 0.57286 AU 26°35'28	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj	8915 Jun 08 17:56 8915 Jun 21 08:54 8915 Jun 28 09:59 8915 Jun 30 18:19 8915 Jul 07 21:10 8915 Jul 07 23:49 8915 Jul 11 06:01 8915 Jul 13 05:33 8915 Jul 15 02:14 8915 Jul 21 10:59 8915 Aug 04 19:38 8915 Aug 11 17:34 8915 Aug 30 12:12 8915 Sep 04 17:33 8915 Sep 05 09:21 8915 Sep 12 11:42 8915 Sep 12 09:28	4°\$15'10 23°\$26'39 26°\$59'53 26°\$36'54 21°\$51'59 21°\$46'10 18°\$56'11 17°\$23'37 16°\$10'44 14°\$18'33 22°\$08'51 0°\$\Omega\$0"\$\text{m}\$10°\$\text{m}\$25'59 11°\$\text{m}\$48'27	1°31'30 1°30'23 0.59413 AU 27°34'35
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	8914 Jul 08 00:26 8914 Jul 16 02:13 8914 Jul 18 03:03 8914 Jul 26 01:10 8914 Jul 26 01:22 8914 Jul 26 01:22 8914 Jul 25 21:55 8914 Jul 26 04:50 8914 Jul 26 08:26 8914 Jul 29 07:02 8914 Aug 02 20:11 8914 Aug 08 13:42 8914 Sep 06 11:35 8914 Sep 17 20:37 8914 Sep 21 02:12 8914 Sep 22 08:12	10° A45'25 14° A46'17 14° A31'53 10° A07'49 10° A07'25 10° A07'25 10° A13'54 10° A00'56 9° A54'09 7° A42'53 4° A57'57 3° A36'37 11° A08'18 0° m 20° m 36'32 27° m 19'25 0° Ω 12° Ω27'06 12° Ω26'09	0°05'30 0°05'14 0°05'14 0.57286 AU 26°35'28	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj minimum elong	8915 Jun 08 17:56 8915 Jun 21 08:54 8915 Jun 28 09:59 8915 Jun 30 18:19 8915 Jul 07 21:10 8915 Jul 07 23:49 8915 Jul 11 06:01 8915 Jul 13 05:33 8915 Jul 15 02:14 8915 Jul 21 10:59 8915 Aug 04 19:38 8915 Aug 11 17:34 8915 Aug 30 12:12 8915 Sep 04 17:33 8915 Sep 05 09:21	4°\$15'10 23°\$26'39 26°\$59'53 26°\$36'54 21°\$51'59 21°\$46'10 18°\$56'11 17°\$23'37 16°\$10'44 14°\$18'33 22°\$08'51 0°\$\Omega\$0"\$\text{m}\$10°\$\text{m}\$25'59 11°\$\text{m}\$48'27	1°31'30 1°30'23 0.59413 AU 27°34'35 1°11'30 1°11'08
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	8914 Jul 08 00:26 8914 Jul 16 02:13 8914 Jul 18 03:03 8914 Jul 26 01:10 8914 Jul 26 01:22 8914 Jul 26 01:22 8914 Jul 25 21:55 8914 Jul 26 04:50 8914 Jul 26 08:26 8914 Jul 29 07:02 8914 Aug 02 20:11 8914 Aug 08 13:42 8914 Aug 22 21:42 8914 Sep 06 11:35 8914 Sep 17 20:37 8914 Sep 21 02:12 8914 Sep 22 08:12 8914 Sep 28 00:02 8914 Sep 27 22:03 8914 Sep 28 09:51	10° A45'25 14° A46'17 14° A31'53 10° A07'49 10° A07'25 10° A07'25 10° A13'54 10° A00'56 9° A54'09 7° A42'53 4° A57'57 3° A36'37 11° A08'18 0° m 20° m 36'32 27° m 19'25 0° Ω 12° Ω27'06 12° Ω26'09	0°05'30 0°05'14 0°05'14 0.57286 AU 26°35'28	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	8915 Jun 08 17:56 8915 Jun 21 08:54 8915 Jun 28 09:59 8915 Jun 30 18:19 8915 Jul 07 21:10 8915 Jul 07 23:49 8915 Jul 11 06:01 8915 Jul 13 05:33 8915 Jul 15 02:14 8915 Jul 21 10:59 8915 Aug 04 19:38 8915 Aug 11 17:34 8915 Aug 30 12:12 8915 Sep 04 17:33 8915 Sep 04 17:33 8915 Sep 05 09:21 8915 Sep 12 11:42 8915 Sep 12 11:42 8915 Sep 12 09:28 8915 Sep 11 19:54 8915 Sep 13 17:36	4°\$15'10 23°\$26'39 26°\$59'53 26°\$36'54 21°\$51'59 21°\$46'10 18°\$56'11 17°\$23'37 16°\$10'44 14°\$18'33 22°\$08'51 0°\$\lambda\$ 0°\$\lambda\$ 10°\$\lambda\$25'59 11°\$\lambda\$48'27 27°\$\lambda\$14'00 27°\$\lambda\$01'32 25°\$\lambda\$46'22	1°31'30 1°30'23 0.59413 AU 27°34'35 1°11'30 1°11'08
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	8914 Jul 08 00:26 8914 Jul 16 02:13 8914 Jul 18 03:03 8914 Jul 26 01:10 8914 Jul 26 01:22 8914 Jul 26 01:22 8914 Jul 25 21:55 8914 Jul 26 04:50 8914 Jul 29 07:02 8914 Aug 02 20:11 8914 Aug 08 13:42 8914 Aug 22 21:42 8914 Sep 06 11:35 8914 Sep 17 20:37 8914 Sep 21 02:12 8914 Sep 22 08:12 8914 Sep 28 00:02 8914 Sep 28 09:51 8914 Sep 28 09:51 8914 Oct 04 20:57	10° A45'25 14° A46'17 14° A31'53 10° A07'49 10° A07'25 10° A07'25 10° A05'54 10° A00'56 9° A54'09 7° A42'53 4° A57'57 3° A36'37 11° A08'18 0° m 20° m 36'32 27° m 19'25 0° Ω 12° Ω27'06 12° Ω16'09 13° Ω21'37 27° Ω25'34	0°05'30 0°05'14 0°05'14 0.57286 AU 26°35'28	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj minimum elong	8915 Jun 08 17:56 8915 Jun 21 08:54 8915 Jun 28 09:59 8915 Jun 30 18:19 8915 Jul 07 21:10 8915 Jul 07 23:49 8915 Jul 11 06:01 8915 Jul 13 05:33 8915 Jul 15 02:14 8915 Jul 21 10:59 8915 Aug 04 19:38 8915 Aug 11 17:34 8915 Aug 30 12:12 8915 Sep 04 17:33 8915 Sep 05 09:21 8915 Sep 12 11:42 8915 Sep 12 11:42 8915 Sep 12 09:28 8915 Sep 11 19:54 8915 Sep 13 17:36 8915 Sep 19 05:34	4°515'10 23°526'39 26°559'53 26°536'54 21°551'59 21°546'10 18°556'11 17°523'37 16°510'44 14°518'33 22°508'51 0°N 0°M 10°M25'59 11°M48'27 27°M14'00 27°M01'32 25°M46'22 0°£ 12°£02'32	1°31'30 1°30'23 0.59413 AU 27°34'35 1°11'30 1°11'08
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 superior conj minimum elong max. Earth dist. evening rise	8914 Jul 08 00:26 8914 Jul 16 02:13 8914 Jul 18 03:03 8914 Jul 26 01:10 8914 Jul 26 01:22 8914 Jul 26 01:22 8914 Jul 25 21:55 8914 Jul 26 04:50 8914 Jul 29 07:02 8914 Aug 02 20:11 8914 Aug 02 20:11 8914 Aug 08 13:42 8914 Aug 22 21:42 8914 Sep 06 11:35 8914 Sep 17 20:37 8914 Sep 21 02:12 8914 Sep 22 08:12 8914 Sep 28 00:02 8914 Sep 28 09:51 8914 Oct 04 20:57 8914 Oct 06 02:29	10° A45'25 14° A46'17 14° A31'53 10° A07'49 10° A07'25 10° A07'25 10° A13'54 10° A00'56 9° A54'09 7° A42'53 4° A57'57 3° A36'37 11° A08'18 0° m 20° m36'32 27° m19'25 0° Ω 12° Ω27'06 12° Ω16'09 13° Ω21'37 27° Ω25'34 0° M	0°05'30 0°05'14 0°05'14 0.57286 AU 26°35'28	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	8915 Jun 08 17:56 8915 Jun 21 08:54 8915 Jun 28 09:59 8915 Jun 30 18:19 8915 Jul 07 21:10 8915 Jul 07 23:49 8915 Jul 11 06:01 8915 Jul 13 05:33 8915 Jul 15 02:14 8915 Jul 21 10:59 8915 Aug 04 19:38 8915 Aug 11 17:34 8915 Aug 30 12:12 8915 Sep 04 17:33 8915 Sep 05 09:21 8915 Sep 12 11:42 8915 Sep 12 09:28 8915 Sep 13 17:36 8915 Sep 19 05:34 8915 Sep 28 06:25	4°\$15'10 23°\$26'39 26°\$59'53 26°\$36'54 21°\$51'59 21°\$46'10 18°\$56'11 17°\$23'37 16°\$10'44 14°\$18'33 22°\$08'51 0°\$\Omega\$ 0°\$\mathrm{10}\$\$10'\$\mathrm{48'27}\$ 27°\$\mathrm{10}\$14'00 27°\$\mathrm{10}\$132 25°\$\mathrm{46'22}\$0°\$\mathrm{1}\$2'32 0°\$\mathrm{1}\$12'\$\mathrm{1}\$20'32 0°\$\mathrm{1}\$12'32	1°31'30 1°30'23 0.59413 AU 27°34'35 1°11'30 1°11'08
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	8914 Jul 08 00:26 8914 Jul 16 02:13 8914 Jul 18 03:03 8914 Jul 26 01:10 8914 Jul 26 01:22 8914 Jul 26 01:22 8914 Jul 25 21:55 8914 Jul 26 04:50 8914 Jul 29 07:02 8914 Aug 02 20:11 8914 Aug 02 20:11 8914 Aug 08 13:42 8914 Sep 06 11:35 8914 Sep 17 20:37 8914 Sep 21 02:12 8914 Sep 22 08:12 8914 Sep 28 00:02 8914 Sep 28 09:51 8914 Oct 04 20:57 8914 Oct 06 02:29 8914 Oct 22 06:59	10° A45'25 14° A46'17 14° A31'53 10° A07'49 10° A07'25 10° A07'25 10° A13'54 10° A00'56 9° A54'09 7° A42'53 4° A57'57 3° A36'37 11° A08'18 0° m 20° m36'32 27° m 19'25 0° \$\oldsymbol{\Omega}\$ 12° \$\oldsymbol{\Omega}\$27'06 12° \$\oldsymbol{\Omega}\$137 27° \$\oldsymbol{\Omega}\$25'34 0° m 29° M01'48	0°05'30 0°05'14 0°05'14 0.57286 AU 26°35'28	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	8915 Jun 08 17:56 8915 Jun 21 08:54 8915 Jun 28 09:59 8915 Jun 30 18:19 8915 Jul 07 21:10 8915 Jul 07 23:49 8915 Jul 11 06:01 8915 Jul 13 05:33 8915 Jul 15 02:14 8915 Jul 21 10:59 8915 Aug 04 19:38 8915 Aug 11 17:34 8915 Aug 30 12:12 8915 Sep 04 17:33 8915 Sep 05 09:21 8915 Sep 12 11:42 8915 Sep 12 09:28 8915 Sep 13 17:36 8915 Sep 19 05:34 8915 Sep 28 06:25 8915 Oct 09 04:07	4°\$15'10 23°\$26'39 26°\$59'53 26°\$36'54 21°\$51'59 21°\$46'10 18°\$56'11 17°\$23'37 16°\$10'44 14°\$18'33 22°\$08'51 0°\$\Omega\$ 0°\$\mathbf{m}\$ 10°\$\mathbf{m}\$25'59 11°\$\mathbf{m}\$48'27 27°\$\mathbf{m}\$14'00 27°\$\mathbf{m}\$01'32 25°\$\mathbf{m}\$46'22 0°\$\mathbf{n}\$ 12°\$\mathbf{n}\$02'32 0°\$\mathbf{m}\$ 17°\$\mathbf{m}\$19'31	1°31'30 1°30'23 0.59413 AU 27°34'35 1°11'30 1°11'08 1.31605 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 superior conj minimum elong max. Earth dist. evening rise desc. node	8914 Jul 08 00:26 8914 Jul 16 02:13 8914 Jul 18 03:03 8914 Jul 26 01:10 8914 Jul 26 01:22 8914 Jul 26 01:22 8914 Jul 25 21:55 8914 Jul 26 04:50 8914 Jul 29 07:02 8914 Aug 02 20:11 8914 Aug 08 13:42 8914 Aug 08 13:42 8914 Sep 06 11:35 8914 Sep 17 20:37 8914 Sep 21 02:12 8914 Sep 22 08:12 8914 Sep 22 08:12 8914 Sep 28 00:02 8914 Sep 28 09:51 8914 Oct 04 20:57 8914 Oct 06 02:29 8914 Oct 22 06:59 8914 Oct 22 22:36	10° A45'25 14° A46'17 14° A31'53 10° A07'49 10° A07'25 10° A07'25 10° A05'54 10° A00'56 9° A54'09 7° A42'53 4° A57'57 3° A36'37 11° A08'18 0° m 20° m36'32 27° m 19'25 0° Ω 12° Ω27'06 12° Ω16'09 13° Ω21'37 27° Ω25'34 0° M 29° M01'48 0° ✓	0°05'30 0°05'14 0°05'14 0.57286 AU 26°35'28 1°26'39 1°26'28 1.31735 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	8915 Jun 08 17:56 8915 Jun 21 08:54 8915 Jun 28 09:59 8915 Jun 30 18:19 8915 Jul 07 21:10 8915 Jul 07 23:49 8915 Jul 11 06:01 8915 Jul 13 05:33 8915 Jul 15 02:14 8915 Jul 21 10:59 8915 Aug 04 19:38 8915 Aug 11 17:34 8915 Aug 30 12:12 8915 Sep 04 17:33 8915 Sep 05 09:21 8915 Sep 12 11:42 8915 Sep 12 09:28 8915 Sep 13 17:36 8915 Sep 19 05:34 8915 Sep 28 06:25 8915 Oct 09 04:07 8915 Oct 17 16:33	4°\$15'10 23°\$26'39 26°\$59'53 26°\$36'54 21°\$51'59 21°\$46'10 18°\$56'11 17°\$23'37 16°\$10'44 14°\$18'33 22°\$08'51 0°\$\Omega\$ 0°\$\mathbf{m}\$ 10°\$\mathbf{m}\$25'59 11°\$\mathbf{m}\$48'27 27°\$\mathbf{m}\$14'00 27°\$\mathbf{m}\$01'32 25°\$\mathbf{m}\$46'22 0°\$\mathbf{n}\$ 12°\$\mathbf{n}\$02'32 0°\$\mathbf{m}\$ 17°\$\mathbf{m}\$19'31 27°\$\mathbf{m}\$11'45	1°31'30 1°30'23 0.59413 AU 27°34'35 1°11'30 1°11'08 1.31605 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 superior conj minimum elong max. Earth dist. evening rise desc. node	8914 Jul 08 00:26 8914 Jul 16 02:13 8914 Jul 18 03:03 8914 Jul 26 01:10 8914 Jul 26 01:22 8914 Jul 26 01:22 8914 Jul 25 21:55 8914 Jul 26 04:50 8914 Jul 26 08:26 8914 Jul 29 07:02 8914 Aug 02 20:11 8914 Aug 02 20:11 8914 Aug 02 21:42 8914 Sep 06 11:35 8914 Sep 17 20:37 8914 Sep 21 02:12 8914 Sep 22 08:12 8914 Sep 22 08:12 8914 Sep 23 00:02 8914 Sep 24 00:02 8914 Sep 27 22:03 8914 Sep 28 00:57 8914 Oct 04 20:57 8914 Oct 06 02:29 8914 Oct 22 06:59 8914 Oct 22 22:36 8914 Nov 04 18:08	10° A45'25 14° A46'17 14° A31'53 10° A07'49 10° A07'25 10° A07'25 10° A05'54 10° A00'56 9° A54'09 7° A42'53 4° A57'57 3° A36'37 11° A08'18 0° m 20° m 36'32 27° m 19'25 0° Ω 12° Ω27'06 12° Ω16'09 13° Ω21'37 27° Ω25'34 0° M 29° M01'48 0° 7' 15° ₹41'26	0°05'30 0°05'14 0°05'14 0.57286 AU 26°35'28 1°26'39 1°26'28 1.31735 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	8915 Jun 08 17:56 8915 Jun 21 08:54 8915 Jun 28 09:59 8915 Jun 30 18:19 8915 Jul 07 21:10 8915 Jul 07 23:49 8915 Jul 11 06:01 8915 Jul 13 05:33 8915 Jul 15 02:14 8915 Jul 21 10:59 8915 Aug 04 19:38 8915 Aug 11 17:34 8915 Aug 30 12:12 8915 Sep 04 17:33 8915 Sep 05 09:21 8915 Sep 12 11:42 8915 Sep 12 09:28 8915 Sep 12 19:54 8915 Sep 13 17:36 8915 Sep 19 05:34 8915 Sep 28 06:25 8915 Oct 09 04:07 8915 Oct 17 16:33 8915 Oct 20 23:13	4°\$15'10 23°\$26'39 26°\$59'53 26°\$36'54 21°\$51'59 21°\$46'10 18°\$56'11 17°\$23'37 16°\$10'44 14°\$18'33 22°\$08'51 0°\$\Omega\$ 0°\$\mathred{m}\$ 10°\$\mathred{m}\$25'59 11°\$\mathred{m}\$48'27 27°\$\mathred{m}\$14'00 27°\$\mathred{m}\$01'32 25°\$\mathred{m}\$46'22 0°\$\mathred{m}\$ 12°\$\mathred{\Omega}\$02'32 0°\$\mathred{m}\$ 17°\$\mathred{m}\$11'45 0°\$\scrip*\$	1°31'30 1°30'23 0.59413 AU 27°34'35 1°11'30 1°11'08 1.31605 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 superior conj minimum elong max. Earth dist. evening rise desc. node	8914 Jul 08 00:26 8914 Jul 16 02:13 8914 Jul 18 03:03 8914 Jul 26 01:10 8914 Jul 26 01:22 8914 Jul 26 01:22 8914 Jul 25 21:55 8914 Jul 26 04:50 8914 Jul 29 07:02 8914 Aug 02 20:11 8914 Aug 08 13:42 8914 Aug 08 13:42 8914 Sep 06 11:35 8914 Sep 17 20:37 8914 Sep 21 02:12 8914 Sep 22 08:12 8914 Sep 22 08:12 8914 Sep 28 00:02 8914 Sep 28 09:51 8914 Oct 04 20:57 8914 Oct 06 02:29 8914 Oct 22 06:59 8914 Oct 22 22:36	10° A45'25 14° A46'17 14° A31'53 10° A07'49 10° A07'25 10° A07'25 10° A05'54 10° A00'56 9° A54'09 7° A42'53 4° A57'57 3° A36'37 11° A08'18 0° m 20° m36'32 27° m 19'25 0° Ω 12° Ω27'06 12° Ω16'09 13° Ω21'37 27° Ω25'34 0° M 29° M01'48 0° ✓	0°05'30 0°05'14 0°05'14 0.57286 AU 26°35'28 1°26'39 1°26'28 1.31735 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	8915 Jun 08 17:56 8915 Jun 21 08:54 8915 Jun 28 09:59 8915 Jun 30 18:19 8915 Jul 07 21:10 8915 Jul 07 23:49 8915 Jul 11 06:01 8915 Jul 13 05:33 8915 Jul 15 02:14 8915 Jul 21 10:59 8915 Aug 04 19:38 8915 Aug 11 17:34 8915 Aug 30 12:12 8915 Sep 04 17:33 8915 Sep 05 09:21 8915 Sep 12 11:42 8915 Sep 12 09:28 8915 Sep 13 17:36 8915 Sep 19 05:34 8915 Sep 28 06:25 8915 Oct 09 04:07 8915 Oct 17 16:33	4°\$15'10 23°\$26'39 26°\$59'53 26°\$36'54 21°\$51'59 21°\$46'10 18°\$56'11 17°\$23'37 16°\$10'44 14°\$18'33 22°\$08'51 0°\$\Omega\$ 0°\$\mathred{m}\$ 10°\$\mathred{m}\$25'59 11°\$\mathred{m}\$48'27 27°\$\mathred{m}\$14'00 27°\$\mathred{m}\$01'32 25°\$\mathred{m}\$46'22 0°\$\mathred{m}\$ 12°\$\mathred{\textit{G}}\$02'32 0°\$\mathred{m}\$ 17°\$\mathred{m}\$19'31 27°\$\mathred{m}\$11'45	1°31'30 1°30'23 0.59413 AU 27°34'35 1°11'30 1°11'08 1.31605 AU

min. Earth dist.	8915 Nov 11 05:29	0° ≯ 02'06	0.58581 AU	evening set	8916 Oct 17 10:31	13°ML45'00	
	8915 Nov 11 06:40	30°RM		min. Earth dist.	8916 Oct 22 18:00	10°M58'20	0.56677 AU
inferior conj	8915 Nov 14 08:51	27°M43'59	-4°51'48	inferior conj	8916 Oct 25 09:30	9°M16'56	-5°32'30
minimum elong	8915 Nov 14 16:02	27°M30'46	4°50'04	minimum elong	8916 Oct 25 12:52	9°M11'32	5°32'05
morning rise	8915 Nov 22 09:41	23°M16'56		morning rise	8916 Nov 02 17:25	5°M12'23	
direct	8915 Nov 24 15:52	23°ML00'02		direct	8916 Nov 05 06:35	4°M54'33	
asc. node	8915 Dec 01 17:18	25°M56'53		morning max el	8916 Nov 14 19:08	9°M25'37	19°27'24
morning max el	8915 Dec 02 21:18	27°ML00'00	18°32'49	asc. node	8916 Nov 17 14:19	12°M27'50	
	8915 Dec 05 14:02	0° ∡ ¹			8916 Nov 28 09:32	0° ∡ ¹	
morning set	8915 Dec 18 22:39	22° ҂ 741'49		morning set	8916 Dec 02 00:47	7° ∡ 10′08	
	8915 Dec 22 17:22	ರ°0					
				superior conj	8916 Dec 10 01:13	23° х 11′26	1°21'29
superior conj	8915 Dec 27 19:38	9° ප 39'32		minimum elong	8916 Dec 10 04:05	23° ≯ 25′29	1°21'26
minimum elong	8915 Dec 27 22:58	9° る 54'58	0°59'45		8916 Dec 13 14:04	0°ಕ	
max. Earth dist.	8916 Jan 04 05:08	22° ろ 58'04	1.40161 AU	max. Earth dist.	8916 Dec 16 11:01	5° 云 21'07	1.37977 AU
desc. node	8916 Jan 05 03:06	24° る 32'59		evening rise	8916 Dec 20 04:23	12° ろ 02'28	
evening rise	8916 Jan 08 10:03	0° ≈ 07'33		desc. node	8916 Dec 22 00:03	15° る 12'33	
	8916 Jan 08 08:15	0° ≈			8916 Dec 31 00:37	0° ≈	
. ,	8916 Jan 27 22:52	0°) {	22040156		8917 Jan 22 05:09	0° ∀	2500000
evening max el	8916 Feb 12 03:50	18°) 47′22	23°48'56	evening max el	8917 Jan 24 17:01	2° 	25°06'07
retrograde	8916 Feb 23 01:48	25° ∺ 13'07 23° ∺ 31'44		retrograde	8917 Feb 05 15:27	9° ★ 30'22 7° ★ 07'42	
asc. node	8916 Feb 27 16:17 8916 Feb 28 06:40	23°\(\frac{1}{3}\)1'44 23°\(\frac{1}{3}\)02'56		evening set asc. node	8917 Feb 11 08:50 8917 Feb 13 13:25	4°\ 56'50	
evening set min. Earth dist.	8916 Feb 28 06:40 8916 Mar 04 01:23	17° ¥ 29'59	0.68312 AU	min. Earth dist.	8917 Feb 13 13:23 8917 Feb 15 19:57	2° 升 09'24	0.67731 AU
inferior conj	8916 Mar 04 17:29	16° X 35'11	1°51'41	inferior conj	8917 Feb 15 19:37 8917 Feb 16 23:36	2 \(\text{\text{0924}}\) 0°\(\text{\text{39'00}}\)	1°06'11
minimum elong	8916 Mar 04 17:29	16° X 42'24	1°51'02	minimum elong	8917 Feb 16 22:06	0° X 3900	1°05'45
morning rise	8916 Mar 10 00:04	10° X 31'42	1 31 02	minimum clong	8917 Feb 10 22:00 8917 Feb 17 11:34	0 / (43 30 30°R≈	1 03 43
direct	8916 Mar 14 02:17	8°) 57'11		morning rise	8917 Feb 22 11:41	24°≈43'08	
morning max el	8916 Mar 22 02:56	13° ∺ 31'17	20°34'54	direct	8917 Feb 26 01:22	23°≈29'54	
desc. node	8916 Apr 02 03:01	27° ¥ 16'34	20 0.0.	morning max el	8917 Mar 05 05:41	27°≈28'41	19°29'06
dese. node	8916 Apr 04 01:05	0°Υ		morning man er	8917 Mar 07 13:46	0° ∀	13 23 00
morning set	8916 Apr 20 06:12	24° Ƴ 19'01		greatest brilliancy	8917 Mar 17 23:40	14°) 11'49	-0.7m
C	8916 Apr 23 21:26	0°B		desc. node	8917 Mar 19 23:53	17°) 11′25	
max. Earth dist.	8916 Apr 29 02:10	8° 8 17'00	1.43413 AU		8917 Mar 28 09:58	$0^{\circ}\mathbf{\Upsilon}$	
	•			morning set	8917 Mar 30 04:28	2° Y 43'29	
superior conj	8916 May 05 14:46	18° 8 59'17	-2°08'37	max. Earth dist.	8917 Apr 11 15:24	22° Y 08'22	1.44787 AU
minimum elong	8916 May 05 18:25	19° 8 14'32	2°08'39				
	8916 May 12 02:23	$\Pi^{\circ}0$		superior conj	8917 Apr 15 16:39	28° Ƴ 34'52	-2°10'57
evening rise	8916 May 17 21:21	10° Ⅱ 06'32		minimum elong	8917 Apr 15 13:58	28° Y 24'10	2°11'00
asc. node	8916 May 25 15:01	23° Ⅱ 32'17			8917 Apr 16 13:54	9° 8	
	8916 May 29 16:36	0 \circ \odot		evening rise	8917 Apr 29 17:05	21° 8 33'06	
evening max el	8916 Jun 03 21:29	6° © 33'27	18°05'04		8917 May 04 18:18	$\Pi^{\circ}0$	
retrograde	8916 Jun 10 09:31	9° © 54'51		asc. node	8917 May 12 12:05	12° Ⅱ 23'00	
evening set	8916 Jun 13 01:23	9° 5 20'32		evening max el	8917 May 18 10:52	19° Ⅱ 57'02	18°16'06
inferior conj	8916 Jun 19 12:13	4° © 15'45	2°30'02	retrograde	8917 May 24 20:06	23° Ⅲ 21'02	
minimum elong	8916 Jun 19 15:05	4°508'30	2°29'05	evening set	8917 May 27 19:20	22° Ⅲ 33'36	
min. Earth dist.	8916 Jun 22 13:20		0.61673 AU	inferior conj	8917 Jun 02 18:11	17° Ⅱ 10'49	
marning rise	8916 Jun 23 20:44	30°RⅡ 20°Ⅲ12111		minimum elong	8917 Jun 02 20:07	17° Ⅱ 05'21	3°04'05
morning rise desc. node	8916 Jun 26 02:37 8916 Jun 29 02:37	28°Ⅲ13'11 26°Ⅲ35'28		min. Earth dist. morning rise	8917 Jun 05 06:05 8917 Jun 08 19:36	14° Ⅲ 21'58 10° Ⅲ 56'45	0.63788 AU
direct	8916 Jul 02 19:21	25° I 53'10		direct	8917 Jun 15 12:59	8° I 17'42	
direct	8916 Jul 12 14:49	23 H 33 10		desc. node	8917 Jun 15 12:39 8917 Jun 15 23:39	8° П 17'42	
morning max el	8916 Jul 17 00:15	3°954'01	27°56'08	morning max el	8917 Jun 13 23:39 8917 Jun 29 09:16	16° Ⅱ 19'53	27°40'04
morning max ci	8916 Aug 05 09:29	0°Ω	27 30 00	morning max ci	8917 Jul 10 15:41	0°9	27 40 04
morning set	8916 Aug 19 11:26	25° Ω 59'59			8917 Jul 29 03:42	$0 {\circ} \Omega$	
morning sec	8916 Aug 21 09:41	0°m)		morning set	8917 Aug 03 06:08	9° Ω 47'55	
asc. node	8916 Aug 21 14:30	0° mp 25'21		max. Earth dist.	8917 Aug 08 05:02	19° £ 56'33	1.32760 AU
max. Earth dist.	8916 Aug 25 03:37	8° mp 01'33	1.31942 AU	asc. node	8917 Aug 08 11:27	20° £ 30′20	
	<i>J</i> = 42.42,	4	-	-	<u> </u>		
superior conj	8916 Aug 26 21:46	11° m 52'03	0°51'29	superior conj	8917 Aug 11 04:18	26° Ω 16′03	0°27'00
minimum elong	8916 Aug 26 19:44	11° mp 40'54	0°51'01	minimum elong	8917 Aug 11 03:02	26° Ω 09'15	0°26'35
evening rise	8916 Sep 02 16:37	26° m/43'21		3	8917 Aug 12 21:46	0° m)	
-	8916 Sep 04 05:37	0∘ ⊽		evening rise	8917 Aug 18 04:11	11° m 22'48	
	8916 Sep 21 10:25	0° M ₊			8917 Aug 27 14:58	0∘ ⊽	
desc. node	8916 Sep 25 01:15	4°M28'33		evening max el	8917 Sep 09 18:00	18° ≏ 05'21	23°00'46
evening max el	8916 Sep 28 06:56	7°M52'32	24°39'47	desc. node	8917 Sep 11 22:23	20° ≏ 03'12	
retrograde	8916 Oct 12 02:07	14°M48'51		retrograde	8917 Sep 23 01:39	24° ≏ 44'27	

avanina aat	9017 Can 26 22:09	249 0 11159		ovenina riae	9019 Aug 02 14:20	25° Ω 54'22	
evening set	8917 Sep 26 22:08	24° £ 11'58	0.55272.411	evening rise	8918 Aug 02 14:20		
min. Earth dist.	8917 Oct 04 02:45		0.55272 AU		8918 Aug 04 13:39	0° Mp 28° Mp 25′24	21925112
inferior conj	8917 Oct 05 14:52	20° £ 03'05		evening max el	8918 Aug 22 10:44	~	21-25-12
minimum elong	8917 Oct 05 10:42	20° Ω 09'06	5°30'30		8918 Aug 24 03:56	0∘ ⊽	
morning rise	8917 Oct 14 01:17	16° £ 13'30		desc. node	8918 Aug 29 19:31	3° £ 31'29	
direct	8917 Oct 17 02:17	15° Ω 51'46	20044122	retrograde	8918 Sep 03 15:02	4° £ 27'45	
morning max el	8917 Oct 28 04:14	21° £ 03'41	20°44'23	evening set	8918 Sep 06 03:42	4° £ 13'06	1022111
asc. node	8917 Nov 04 11:17	0°M00'43		inferior conj	8918 Sep 15 08:17	0° £ 15'54	
_	8917 Nov 04 11:05	0°M		minimum elong	8918 Sep 14 22:50	0° £ 29'10	
morning set	8917 Nov 16 08:16	21°M51'50		min. Earth dist.	8918 Sep 15 11:10		0.54669 AU
	8917 Nov 20 06:10	0°⊀			8918 Sep 15 19:38	30°R Mp	
				morning rise	8918 Sep 23 18:45	26° m 24'43	
superior conj	8917 Nov 23 18:46	7° ∡ 17'08 −	1°34'44	direct	8918 Sep 27 11:15	25° m 55'16	
minimum elong	8917 Nov 23 20:30	7° ∡ ¹26′05	1°34'50		8918 Oct 07 19:53	0∘ ⊽	
max. Earth dist.	8917 Nov 28 19:04	17° ∡ 18′08	1.35926 AU	morning max el	8918 Oct 10 00:44	1° ≙ 53'11	22°20'42
evening rise	8917 Dec 02 17:48	24° ₹ 47'58		asc. node	8918 Oct 22 08:13	18° ≙ 20'37	
	8917 Dec 05 14:23	0°る			8918 Oct 28 13:21	0° M	
desc. node	8917 Dec 08 21:04	5° る 43'58		morning set	8918 Oct 31 18:46	6°M39'34	
	8917 Dec 24 14:15	0° ≈					
evening max el	8918 Jan 07 06:09	16° ≈ 21'42	26°13'11	superior conj	8918 Nov 07 20:35	21°M44'50	1°40'32
retrograde	8918 Jan 20 00:12	23° ≈ 35′29		minimum elong	8918 Nov 07 21:03	21°M47'14	1°40'43
evening set	8918 Jan 26 05:45	21° ≈ 03'49		max. Earth dist.	8918 Nov 11 10:01	29°M11'08	1.34195 AU
min. Earth dist.	8918 Jan 30 10:23	16° ≈ 39'59	0.66771 AU		8918 Nov 11 19:34	0° ∡ ¹	
asc. node	8918 Jan 31 10:30	15° ≈ 26′02		evening rise	8918 Nov 15 22:23	8° ₮ 13'04	
inferior conj	8918 Feb 01 01:35	14° ≈ 39′27	0°12'30	desc. node	8918 Nov 25 18:08	26° ₹ 01'25	
minimum elong	8918 Feb 01 01:15	14° ≈ 40′29	0°12'33		8918 Nov 28 03:49	0°ಕ	
transit middle	8918 Feb 01 01:15	14° ≈ 40′29	0°12'33		8918 Dec 20 19:31	0° ≈	
transit begin	8918 Jan 31 23:28	14° ≈ 46′00		evening max el	8918 Dec 20 19:28	29° る 59'52	27°02'52
transit end	8918 Feb 01 03:03	14° ≈ 34'57		retrograde	8919 Jan 03 03:10	7° ≈ 20'33	
morning rise	8918 Feb 06 21:30	8° ≈ 53'00		evening set	8919 Jan 09 19:24	4° ≈ 45'11	
direct	8918 Feb 10 00:06	7° ≈ 58'13		min. Earth dist.	8919 Jan 13 18:24	0° ≈ 55'18	0.65443 AU
morning max el	8918 Feb 16 15:39	11° ≈ 34′08	18°38'53		8919 Jan 14 14:05	30°Ŗる	
	8918 Mar 02 02:40	0° ∀		inferior conj	8919 Jan 15 21:12	28° る 31'17	-0°48'50
desc. node	8918 Mar 06 20:46	7°) €25'38		minimum elong	8919 Jan 15 22:38	28° る 27'14	0°48'01
morning set	8918 Mar 09 19:11	12°) €02'23		asc. node	8919 Jan 18 07:34	25° る 52'52	
	8918 Mar 21 06:01	0 ° Υ		morning rise	8919 Jan 22 03:08	22° る 56'43	
max. Earth dist.	8918 Mar 25 08:54	6° Ƴ 26'47	1.45488 AU	direct	8919 Jan 24 20:29	22° る 16'43	
				morning max el	8919 Jan 31 06:41	25° ප් 41'02	18°05'25
superior conj	8918 Mar 26 00:47	7° Ƴ 28'59	-1°53'13		8919 Feb 03 23:24	0° ≈	
minimum elong	8918 Mar 25 15:59	6° Ƴ 54'31	1°52'34	morning set	8919 Feb 18 14:59	22° ≈ 49′23	
	8918 Apr 09 07:00	$8^{\circ 0}$		desc. node	8919 Feb 21 17:41	27° ≈ 53'47	
evening rise	8918 Apr 10 13:08	2° 8 00'16			8919 Feb 23 00:47	0° ℋ	
greatest brilliancy	8918 Apr 18 10:40	14° 8 36'44	-0.9m				
	8918 Apr 28 20:51	Π $^{\circ}0$		superior conj	8919 Mar 05 08:02	16°) €28'10	
asc. node	8918 Apr 29 09:10	0° Ⅱ 38'30		minimum elong	8919 Mar 04 23:25	15°) 54′09	1°16'46
evening max el	8918 May 01 22:16	3° Ⅱ 30′21	18°45'10	max. Earth dist.	8919 Mar 08 04:32	20° 升 57′29	1.45448 AU
retrograde	8918 May 08 13:36	7° Ⅱ 09'47			8919 Mar 13 23:30	0 ° $\mathbf{\gamma}$	
evening set	8918 May 11 20:25	6° Ⅱ 08'03		evening rise	8919 Mar 21 11:53	11° Y 39'34	
inferior conj	8918 May 17 11:04	0° Ⅱ 28'54	3°20'00		8919 Apr 02 10:40	9° 8	
minimum elong	8918 May 17 11:43	0° Ⅱ 26′56	3°19'46	greatest brilliancy	8919 Apr 03 10:36	1° 8 29'44	-0.7m
	8918 May 17 20:23	30°₹ ႘		evening max el	8919 Apr 15 05:39	17° 8 08'48	19°31'01
min. Earth dist.	8918 May 19 07:50	28° 8 10'42	0.65588 AU	asc. node	8919 Apr 16 06:16	18° 8 08'11	
morning rise	8918 May 23 02:20	24° 8 10'26		retrograde	8919 Apr 22 10:52	21° 8 15'10	
direct	8918 May 29 14:18	21° 8 24'10		evening set	8919 Apr 26 01:54	19° 8 58'22	
desc. node	8918 Jun 02 20:39	22° 8 24'09		inferior conj	8919 May 01 11:36	14° 8 04'18	3°20'17
morning max el	8918 Jun 11 19:43	29° 8 14'29	26°51'42	minimum elong	8919 May 01 11:02	14° 8 06'11	3°20'06
	8918 Jun 12 13:25	Π °0		min. Earth dist.	8919 May 02 17:19	12° 8 26'25	0.66977 AU
	8918 Jul 04 12:30	0 \circ		morning rise	8919 May 06 19:49	7° 8 45'46	
morning set	8918 Jul 17 14:22	23° © 03'00		direct	8919 May 12 21:53	5° 8 03'53	
	8918 Jul 21 03:51	0 ° Ω		desc. node	8919 May 20 17:37	8° 8 23'55	
max. Earth dist.	8918 Jul 21 20:34	1° Ω 23'35	1.34075 AU	morning max el	8919 May 25 05:38	12° 8 26'36	25°39'39
					8919 Jun 08 08:17	$\Pi^{\circ}0$	
superior conj	8918 Jul 26 05:05	10° Ω 19′05			8919 Jun 27 05:30	0 \circ \odot	
minimum elong	8918 Jul 26 05:10	10° Ω 19'32	0°01'35	morning set	8919 Jun 30 08:16	5° © 35'07	
behind sun begin	8918 Jul 25 23:29	9° Ω 49'50		max. Earth dist.	8919 Jul 04 01:29	12° © 30'16	1.35857 AU
behind sun end	8918 Jul 26 10:52	10° Ω 49'16					
asc. node	8918 Jul 26 08:23	10° Ω 36′17		superior conj	8919 Jul 09 21:30	23° © 54'30	-0°32'35

minimum elong	8919 Jul 09 23:27	24° 5 04'20	0°32'26	minimum elong	8920 Jun 22 06:12	7° © 12'36	1°04'26
	8919 Jul 12 21:36	$0^{\circ}\Omega$		asc. node	8920 Jun 29 02:21	20° © 35'53	
asc. node	8919 Jul 13 05:21	0° £ 39′38		evening rise	8920 Jun 30 21:34	24° © 09'46	
evening rise	8919 Jul 17 20:59	10° Ω 12'36			8920 Jul 03 21:09	0 $^{\circ}$ Ω	
	8919 Jul 28 10:59	O° Mp		evening max el	8920 Jul 17 09:53	21° Ω 03′01	19°05'04
evening max el	8919 Aug 04 15:47	9° ™ 21'49	20°04'58	retrograde	8920 Jul 26 06:54	25° Ω 27'00	
retrograde	8919 Aug 15 04:25	14° m 34'05		evening set	8920 Jul 28 04:31	25° Ω 15'43	
desc. node	8919 Aug 16 16:39	14° m 28'06		desc. node	8920 Aug 02 13:46	22° Ω 59'54	
evening set	8919 Aug 17 02:22	14° m 24'31		inferior conj	8920 Aug 05 13:53	21° Q 02'13	-0°55'26
inferior conj	8919 Aug 26 03:32	10° Mp 25'28	-2°51'18	minimum elong	8920 Aug 05 11:29	21° Ω 06′19	0°54'39
minimum elong	8919 Aug 25 19:50	10° m 36'59	2°48'39	min. Earth dist.	8920 Aug 08 11:00	19° Ω 04'26	0.56260 AU
min. Earth dist.	8919 Aug 27 21:19	9° ™ 23'07	0.55022 AU	morning rise	8920 Aug 13 15:24	16° Ω 13'49	
morning rise	8919 Sep 03 11:59	6° Mp 12′42		direct	8920 Aug 18 21:48	15° Ω 09'09	
direct	8919 Sep 07 22:44	5° ™ 29'46		morning max el	8920 Sep 02 02:33	22° Ω 24'45	25°47'18
morning max el	8919 Sep 21 13:38	12° Mp 10'29	24°06'53		8920 Sep 08 20:12	0° m y	
	8919 Oct 05 02:39	0∘ ত		asc. node	8920 Sep 25 02:06	26° m 39'01	
asc. node	8919 Oct 09 05:09	7° ≏ 16'30			8920 Sep 26 18:07	0∘ ಹ	
morning set	8919 Oct 16 06:29	21° ≏ 28'33		morning set	8920 Sep 29 17:47	6° ≏ 14'08	
	8919 Oct 20 05:05	0°M					
				superior conj	8920 Oct 06 14:28	21° ≏ 15′22	1°33'00
superior conj	8919 Oct 23 03:55	6°M26'31	1°39'45	minimum elong	8920 Oct 06 12:51	21° ≏ 06'24	1°32'58
minimum elong	8919 Oct 23 03:11	6°M22'34	1°39'51	max. Earth dist.	8920 Oct 07 15:40	23° ₽ 34'24	1.32018 AU
max. Earth dist.	8919 Oct 25 09:29	11° M .15'55	1.32882 AU		8920 Oct 10 14:20	0° M	
evening rise	8919 Oct 30 14:32	22°M08'31		evening rise	8920 Oct 13 15:04	6°M25′55	
	8919 Nov 03 14:34	0°⊀			8920 Oct 26 03:25	0° ∡ ¹	
desc. node	8919 Nov 12 15:12	15° ₹ 58'35		desc. node	8920 Oct 29 12:18	5° ∡ ¹27'15	
	8919 Nov 21 23:17	0°ප		evening max el	8920 Nov 14 16:32	26° ∡ ¹02'35	27°22'24
evening max el	8919 Dec 03 07:44	13° る 17'57	27°27'56		8920 Nov 19 12:31	0°₹	
retrograde	8919 Dec 16 23:27	20° る 37'10		retrograde	8920 Nov 28 12:28	3° る 16'42	
evening set	8919 Dec 23 23:18	18°る05'10		evening set	8920 Dec 05 14:21	0° る 57'07	
min. Earth dist.	8919 Dec 27 17:46	14° る 47'13	0.63786 AU		8920 Dec 06 22:58	30°₽ ⋌	
inferior conj	8919 Dec 30 07:53	12° る 08'06	-1°56'36	min. Earth dist.	8920 Dec 09 06:49	28° ₹ 05'35	0.61857 AU
minimum elong	8919 Dec 30 11:33	11° る 58'39	1°54'53	inferior conj	8920 Dec 12 06:36	25° ∡ °22'27	-3°07'58
asc. node	8920 Jan 05 04:39	7° る 12'39		minimum elong	8920 Dec 12 12:38	25° ₹ 08'42	3°05'34
morning rise	8920 Jan 06 01:38	6° る 48'32		morning rise	8920 Dec 19 13:12	20° ₹ 21'19	
direct	8920 Jan 08 11:51	6° る 19'29		direct	8920 Dec 21 18:52	19° ∡ ′59'38	
morning max el	8920 Jan 15 00:02	9° る 42'02	17°49'10	asc. node	8920 Dec 22 01:43	20° ∡ 00'00	
	8920 Jan 28 16:57	0° ≈		morning max el	8920 Dec 28 16:34	23° ₹ 29'31	17°50'48
morning set	8920 Jan 31 14:16	4° ≈ 56'31			8921 Jan 02 20:41	0°ප	
desc. node	8920 Feb 08 14:36	18° ≈ 31'01		morning set	8921 Jan 13 10:41	18° る 03'51	
					8921 Jan 20 03:16	0° ≈	
superior conj	8920 Feb 13 08:06	26° ≈ 18'42					
minimum elong	8920 Feb 13 04:21	26° ≈ 03′24	0°33'29	superior conj	8921 Jan 24 09:21	7° ≈ 22'20	0°08'07
	8920 Feb 15 14:43	0° ∀		minimum elong	8921 Jan 24 10:06	7° ≈ 25'36	0°08'13
max. Earth dist.	8920 Feb 18 23:41	5°) 23′54	1.44678 AU	behind sun begin	8921 Jan 24 02:39	6° ≈ 53'44	
evening rise	8920 Feb 28 23:36	20° ¥ 59'36		behind sun end	8921 Jan 24 17:33	7° ≈ 57'23	
	8920 Mar 05 21:37	0 ° $\mathbf{\gamma}$		desc. node	8921 Jan 25 11:32	9° ≈ 13'49	
	8920 Mar 27 13:00	0°8		max. Earth dist.	8921 Jan 31 15:22	19° ≈ 27'57	1.43265 AU
evening max el	8920 Mar 28 07:41	0° 8 48'44	20°31'37		8921 Feb 07 05:47	0° ∀	
asc. node	8920 Apr 02 03:24	4° 8 38'11		evening rise	8921 Feb 07 15:28	0°) 37′50	
retrograde	8920 Apr 05 09:27	5° 8 31'20			8921 Feb 27 11:47	0° Υ	
evening set	8920 Apr 09 09:39	3° 8 59'09		evening max el	8921 Mar 11 04:12	14° Y ′29'40	21°43'42
	8920 Apr 13 03:00	30° ₹ Υ		retrograde	8921 Mar 20 07:26	19° Y ′53'58	
inferior conj	8920 Apr 14 17:04	27° Y 51′52	3°08'18	asc. node	8921 Mar 20 00:32	19° Y ′53'33	
minimum elong	8920 Apr 14 15:33	27° Y 57′02	3°07'58	evening set	8921 Mar 24 17:52	18° Y ′06′30	
min. Earth dist.	8920 Apr 15 08:40	26° Y 58′23	0.67915 AU	inferior conj	8921 Mar 30 01:13	11° Y ′48′28	2°45'51
morning rise	8920 Apr 19 21:16	21° Y 35'40		minimum elong	8921 Mar 29 23:08	11° Y 55'42	2°45'20
direct	8920 Apr 25 10:42	19° Y 07′20		min. Earth dist.	8921 Mar 30 03:52	11° Y ′39'13	0.68405 AU
morning max el	8920 May 06 14:52	25° Y 48'18	24°13'44	morning rise	8921 Apr 04 04:14	5° Υ 36'03	
desc. node	8920 May 06 14:36	25° Y 47'38		direct	8921 Apr 09 03:51	3° Y ′26'57	
	8920 May 10 10:53	0°8		morning max el	8921 Apr 19 01:18	9° Ƴ 17'41	22°43'55
	8920 May 31 21:09	$\Pi^{\circ}0$		desc. node	8921 Apr 23 11:33	14° Y 12'22	
morning set	8920 Jun 11 06:50	17° Ⅱ 10′28			8921 May 05 07:05	0°8	
max. Earth dist.	8920 Jun 14 23:13	23° Ⅱ 40′09	1.37988 AU	morning set	8921 May 23 04:43	27° 8 36'17	
	8920 Jun 18 10:29	0 \circ \odot			8921 May 24 15:28	Π °0	
				max. Earth dist.	8921 May 27 20:13	5° Ⅲ 23'22	1.40249 AU
superior conj	8920 Jun 22 02:06	6° © 52'58	-1°04'53				

superior conj	8921 Jun 04 14:48	19° Ⅱ 04'53	-1°35'23	superior conj	8922 May 17 06:57	0° Ⅱ 20′18	-1°59'41
minimum elong	8921 Jun 04 20:34	19° Ⅱ 31'07		minimum elong	8922 May 17 12:26	0° Д 43'53	
8	8921 Jun 10 12:13	0°9			8922 May 17 02:13	0°II	
evening rise	8921 Jun 14 12:54	7° © 37'51		evening rise	8922 May 28 15:00	20° Ⅲ 27′02	
asc. node	8921 Jun 15 23:22	10° © 20'59		asc. node	8922 Jun 02 20:26	29° ∏ 50′12	
	8921 Jun 27 14:59	$0^{\circ}\Omega$			8922 Jun 02 22:39	0°©	
evening max el	8921 Jun 30 14:11	3° £ 24'56	18°26'07	evening max el	8922 Jun 14 00:53	16° © 18'48	18°07'15
retrograde	8921 Jul 08 04:13	7° Ω 12'30		retrograde	8922 Jun 20 19:12	19° 5 45'10	
evening set	8921 Jul 10 07:58	6° Ω 54'58		evening set	8922 Jun 23 06:40	19° © 17'47	
inferior conj	8921 Jul 17 21:38	2° Ω 21'53	0°45'23	inferior conj	8922 Jun 30 02:16	14° 5 24'33	1°59'30
minimum elong	8921 Jul 17 23:12	2° Ω 18'43	0°44'36	minimum elong	8922 Jun 30 05:13	14°9517'40	1°58'23
desc. node	8921 Jul 20 10:54	0° Ω 18'42		min. Earth dist.	8922 Jul 03 08:59	11° © 22'18	0.60374 AU
	8921 Jul 20 20:28	30° ₹ 5		morning rise	8922 Jul 07 01:00	8° 5 32'43	
min. Earth dist.	8921 Jul 21 06:20	29° © 41'01	0.58152 AU	desc. node	8922 Jul 07 07:59	8° 5 21'56	
morning rise	8921 Jul 25 10:57	26°\$57'10		direct	8922 Jul 13 14:07	6° 5 27'35	
direct	8921 Jul 31 11:27	25° © 22'57		morning max el	8922 Jul 27 21:51	14° 5 24'18	27°48'25
	8921 Aug 11 09:34	$0 {\circ} \Omega$			8922 Aug 09 11:22	$0 {\circ} \Omega$	
morning max el	8921 Aug 14 20:48	3° Ω 04'04	27°05'02		8922 Aug 26 18:47	0° ™	
	8921 Sep 03 08:51	O° m y		morning set	8922 Aug 29 08:12	5°Mp 13'36	
asc. node	8921 Sep 11 23:02	16° Mp 20′27		asc. node	8922 Aug 29 19:58	6° Mp 15′00	
morning set	8921 Sep 14 02:56	20° m 50'49		max. Earth dist.	8922 Sep 04 10:39	18° Mp 20′56	1.31686 AU
	8921 Sep 18 08:25	0∘ ⊽					
				superior conj	8922 Sep 05 13:29	20° m 49'05	1°03'36
superior conj	8921 Sep 21 02:15	6° ≏ 04'43	1°20'50	minimum elong	8922 Sep 05 11:16	20°M 36'50	1°03'10
minimum elong	8921 Sep 21 00:06	5° £ 52'48	1°20'35		8922 Sep 09 17:11	0∘ ⊽	
max. Earth dist.	8921 Sep 21 01:15	5° ≏ 59'13	1.31616 AU	evening rise	8922 Sep 12 07:16	5° ≏ 36'59	
evening rise	8921 Sep 27 21:22	20° £ 57′26			8922 Sep 25 00:22	0°M	
	8921 Oct 02 06:51	0°M		desc. node	8922 Oct 03 06:34	12°M06'48	
desc. node	8921 Oct 16 09:26	24°M15'20		evening max el	8922 Oct 09 13:56	19°M09'17	25°31'47
	8921 Oct 20 14:38	0° ∡ 7		retrograde	8922 Oct 23 11:52	26°M10'47	
evening max el	8921 Oct 27 19:09	8°×701'12	26°43'02	evening set	8922 Oct 29 12:22	24°M46'53	0.55555
retrograde	8921 Nov 10 17:13	15° ₹ 09'28		min. Earth dist.	8922 Nov 03 02:12	22°M09'08	0.57727 AU
evening set	8921 Nov 17 12:20	13°×713'00	0.50550 ATT	inferior conj	8922 Nov 06 02:13	20°M04'41	
min. Earth dist.	8921 Nov 21 09:08	10° 🗷 36'44	0.59770 AU	minimum elong	8922 Nov 06 08:21	19°M54'02	5°11'49
inferior conj	8921 Nov 24 13:48	8° ₹ 04'17		morning rise	8922 Nov 14 06:39	15°M47'27	
minimum elong	8921 Nov 24 21:17	7° ₹ 49'23 3° ₹ 24'33	4°14'49	direct morning max el	8922 Nov 16 14:54	15°M30'38	18°53'14
morning rise direct	8921 Dec 02 08:44			asc. node	8922 Nov 25 08:53	19°M43'05 20°M09'52	16 33 14
	8921 Dec 04 13:16 8921 Dec 08 22:46	3° 尽 06'56 4° 尽 21'56		asc. node	8922 Nov 25 19:46 8922 Dec 03 02:27	20°11L09′32 0° √ 1	
asc. node morning max el	8921 Dec 08 22:46 8921 Dec 12 04:47		18°11'34	morning set	8922 Dec 03 02.27 8922 Dec 11 19:54	0 x. 16° ₹ 08'47	
morning max er	8921 Dec 12 04.47 8921 Dec 26 22:15	0 メ ・33 20	16 11 34	morning set	8922 Dec 11 19:34 8922 Dec 18 21:49	10 x 00 47	
morning set	8921 Dec 20 22:13 8921 Dec 27 22:07	1°る52'20			6922 DCC 16 21.49	0 0	
morning set	6921 Dec 27 22.07	1 032 20		superior conj	8922 Dec 20 07:16	2°₹40'03	1°10'09
superior conj	8922 Jan 06 10:37	19° る 33'53	0°43'30	minimum elong	8922 Dec 20 07:10	2°る55'32	1°09'59
minimum elong	8922 Jan 06 13:35	19° る 47'18	0°43'19	max. Earth dist.	8922 Dec 27 08:06	15° る 36'58	1.39230 AU
desc. node	8922 Jan 12 08:28	29° ප 58'01	0 13 17	desc. node	8922 Dec 30 05:26	20° ප් 40'15	1.57250710
dese. Hode	8922 Jan 12 08:56	0°≈		evening rise	8922 Dec 31 05:51	22° る 24'53	
max. Earth dist.	8922 Jan 14 01:45		1.41373 AU	evening rise	8923 Jan 04 19:06	0°≈	
evening rise	8922 Jan 18 23:48	11°≈02'22			8923 Jan 25 04:16	0°) €	
C	8922 Jan 31 05:41	0°) €		evening max el	8923 Feb 04 10:11	11°) 58'48	24°22'38
evening max el	8922 Feb 21 20:21	28°) 12′29	23°02'43	retrograde	8923 Feb 15 19:19	18°) 38'43	
C	8922 Feb 23 17:36	$_0$ ° γ		evening set	8923 Feb 21 05:20	16° ¥ 23'10	
retrograde	8922 Mar 04 03:11	4° Ƴ 17'59		asc. node	8923 Feb 21 18:48	15° ¥ 53′03	
asc. node	8922 Mar 06 21:41	3° Ƴ 40'04		min. Earth dist.	8923 Feb 25 20:44	11°) 04'40	0.68109 AU
evening set	8922 Mar 09 00:57	2° Y 15'53		inferior conj	8923 Feb 26 17:40	9°) 54′20	1°33'24
•	8922 Mar 11 06:12	30° ₹		minimum elong	8923 Feb 26 15:45	10°) 00'48	1°32'50
inferior conj	8922 Mar 14 10:02	25° ℋ 50′22	2°14'01	morning rise	8923 Mar 04 02:16	3°) 53′36	
minimum elong	8922 Mar 14 07:48	25°) 58′06	2°13'23	direct	8923 Mar 07 23:00	2° ∺ 28'17	
min. Earth dist.	8922 Mar 14 00:39	26°) 22'49	0.68460 AU	morning max el	8923 Mar 15 14:07	6°) 46′08	20°05'01
morning rise	8922 Mar 19 14:34	19°) 43′03		desc. node	8923 Mar 28 05:19	23° ₭ 01'23	
direct	8922 Mar 24 00:22	17°) 55′49			8923 Apr 01 23:07	0 ° Υ	
morning max el	8922 Apr 01 16:07		21°18'57	morning set	8923 Apr 11 23:01	15° Ƴ 10'49	
	8922 Apr 07 18:59	$0^{\circ}\mathbf{\Upsilon}$			8923 Apr 21 10:12	9° 8	
desc. node	8922 Apr 10 08:27	3° Y 20'59		max. Earth dist.	8923 Apr 22 07:24	1° 8 24'29	1.44070 AU
	8922 Apr 28 14:50	9° 8					
morning set	8922 May 02 23:28	6° 8 47'59		superior conj	8923 Apr 27 22:48	10° 8 31'27	
max. Earth dist.	8922 May 09 22:08	17° 8 58'02	1.42360 AU	minimum elong	8923 Apr 28 00:10	10° 8 37'02	2°12'02

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evening rise	8923 May 09 13:10 8923 May 10 23:05	0°Ⅲ 2°Ⅲ25'47		max. Earth dist.	8924 Apr 03 23:11	15° Y 31'02	1.45175 AU
asc. node	8923 May 20 17:30	18° Ⅲ 56'53		superior conj	8924 Apr 06 15:42	19° Ƴ 45'16	-2°05'57
evening max el	8923 May 28 14:16	29° ∏ 34′02	18°07'34	minimum elong	8924 Apr 06 09:57	19° Y ′22'32	
C	8923 May 29 01:04	0ಂಣ		C	8924 Apr 13 02:04	0° ႘	
retrograde	8923 Jun 03 23:49	2°\$54'30		evening rise	8924 Apr 21 08:54	13° 8 26'59	
evening set	8923 Jun 06 18:54	2°514'44			8924 May 01 13:07	Π $^{\circ}0$	
	8923 Jun 10 00:41	30°R Ⅱ		asc. node	8924 May 06 14:35	7° Ⅲ 33'51	
inferior conj	8923 Jun 13 00:09	27° Ⅲ 02'19	2°47'17	evening max el	8924 May 11 03:10	13° Ⅱ 02'48	18°26'18
minimum elong	8923 Jun 13 02:42	26° ∏ 55'31	2°46'32	retrograde	8924 May 17 13:47	16° Ⅲ 31'33	
min. Earth dist.	8923 Jun 15 20:11	24° ∏ 02'47	0.62606 AU	evening set	8924 May 20 16:18	15° Ⅱ 37'57	
morning rise	8923 Jun 19 08:46	20° Ⅱ 54′06		inferior conj	8924 May 26 11:13	10° Ⅱ 07'54	3°13'11
desc. node	8923 Jun 24 05:02	18° Ⅱ 36′02		minimum elong	8924 May 26 12:37	10° Ⅱ 03'47	3°12'49
direct	8923 Jun 26 02:51	18° Ⅱ 24'25		min. Earth dist.	8924 May 28 16:41	7° Ⅱ 30'49	0.64604 AU
morning max el	8923 Jul 10 04:23	26° ∏ 26'53	27°53'35	morning rise	8924 Jun 01 07:59	3° ∏ 51'31	
	8923 Jul 13 11:53	0°95		direct	8924 Jun 07 23:44	1° Ⅱ 08'11	
	8923 Aug 03 02:04	$0^{\circ}\Omega$		desc. node	8924 Jun 10 02:02	1° Ⅲ 22'35	
morning set	8923 Aug 13 07:25	19° Ω 15'39		morning max el	8924 Jun 21 14:15	9° Ⅱ 06'02	27°22'59
asc. node	8923 Aug 16 16:53	26° Ω 17'06			8924 Jul 07 21:15	0° ©	
T d F d	8923 Aug 18 10:47	0° Т р	1 22224 ATT		8924 Jul 25 10:53	0°N	
max. Earth dist.	8923 Aug 18 15:58	0° m ,27'48	1.32234 AU	morning set	8924 Jul 26 22:03	2°Ω50'23	1 22260 ATT
aumariar aani	9022 Aug 20 22:17	50 mm 2 1155	0941120	max. Earth dist.	8924 Jul 31 13:41	12° Ω 11'53 16° Ω 22'51	1.33269 AU
superior conj minimum elong	8923 Aug 20 22:17	5° my 21'55 5° my 12'15	0°41'38 0°41'09	asc. node	8924 Aug 02 13:50	10-862251	
evening rise	8923 Aug 20 20:31 8923 Aug 27 18:45	20° My 17'53	0 41 09	superior conj	8924 Aug 04 02:41	19° Ω 37'41	0°15'25
evening rise	8923 Sep 01 11:01	0° ∵		minimum elong	8924 Aug 04 02:41 8924 Aug 04 01:55	19° Ω 33'37	0°15'04
desc. node	8923 Sep 01 11:01 8923 Sep 20 03:42	28° £ 39'06		behind sun begin	8924 Aug 04 01:33 8924 Aug 04 00:02	19° Ω 23'36	0 13 04
evening max el	8923 Sep 21 02:10	29° Ω 34'52	23°58'17	behind sun end	8924 Aug 04 00:02 8924 Aug 04 03:48	19° Ω 43'39	
evening max er	8923 Sep 21 12:45	0°M	25 56 17	bennia san ena	8924 Aug 08 22:44	0° m)	
retrograde	8923 Oct 04 17:58	6°M24'57		evening rise	8924 Aug 11 05:59	4° m) 54'48	
evening set	8923 Oct 09 11:39	5°M35'49		evening rise	8924 Aug 24 18:07	0∘ ⊽	
min. Earth dist.	8923 Oct 15 12:46	2°M38'15	0.56003 AU	evening max el	8924 Sep 01 14:31	ა — 9° ჲ 45'54	22°18'40
inferior conj	8923 Oct 17 18:13	1° M 17'01		desc. node	8924 Sep 06 00:51	13° ≏ 23'52	
minimum elong	8923 Oct 17 18:36	1°M16'25		retrograde	8924 Sep 14 12:01	16° ≏ 11'22	
8	8923 Oct 19 21:51	30° ₹ Ω		evening set	8924 Sep 17 17:49	15° ≏ 48'09	
morning rise	8923 Oct 26 03:36	27° ≏ 19'49		min. Earth dist.	8924 Sep 25 20:36	12° ≏ 14'26	0.54913 AU
direct	8923 Oct 28 21:22	27° ♀ 00'35		inferior conj	8924 Sep 26 17:04	11° ≏ 45'37	-5°13'29
	8923 Nov 05 22:16	0°M		minimum elong	8924 Sep 26 09:55	11° ≏ 55'42	5°12'19
morning max el	8923 Nov 08 01:22	1° M 48'19	19°57'24	morning rise	8924 Oct 05 03:44	7° ≙ 58'09	
asc. node	8923 Nov 12 16:43	7°M08'31		direct	8924 Oct 08 11:16	7° ॒ 33'32	
	8923 Nov 25 16:03	0° ∡ ¹		morning max el	8924 Oct 20 04:40	13° ഫ 04'09	21°23'26
morning set	8923 Nov 26 00:37	0° ∡ °43′28		asc. node	8924 Oct 29 13:40	25° ≏ 02'43	
					8924 Nov 01 11:54	0° M	
superior conj	8923 Dec 03 18:23	16° ₹ 27'12		morning set	8924 Nov 09 09:38	15° ™ 28'31	
minimum elong	8923 Dec 03 20:50	16° ₹ 39'23	1°28'05		8924 Nov 16 07:31	0° ∡ ¹	
max. Earth dist.	8923 Dec 09 14:25	27° х 46'50	1.37080 AU				
	8923 Dec 10 18:56	0°る		superior conj	8924 Nov 16 15:50	0° x ⁷ 43'13	
evening rise	8923 Dec 13 08:44	4°る42'22		minimum elong	8924 Nov 16 17:02	0° √ 49'27	1°38'12
desc. node	8923 Dec 17 02:26 8923 Dec 28 18:20	11°る16'51 0°≈		max. Earth dist.	8924 Nov 21 01:21	9° х ⁷ 41′03 17° х ⁷ 45′32	1.35144 AU
evening max el	8924 Jan 17 23:27	0 ≈ 25°≈47'22	25°36'27	evening rise	8924 Nov 25 05:03 8924 Dec 01 23:27	17 x 43 32 0°る	
evening max er	8924 Jan 22 22:15	23 ≈ 47 22 0° H	23 30 27	desc. node	8924 Dec 01 23:27 8924 Dec 02 23:28	1°る42'56	
retrograde	8924 Jan 30 06:49	2° ∺ 51′21		desc. Hode	8924 Dec 22 00:59	0°≈	
evening set	8924 Feb 05 05:27	0°) (3121		evening max el	8924 Dec 30 12:44	9° ≈ 31'31	26°36'54
evening set	8924 Feb 05 16:46	30°R≈		retrograde	8925 Jan 12 12:59	16° ≈ 48'54	20 30 34
asc. node	8924 Feb 08 15:54	26°≈48'55		evening set	8925 Jan 18 23:31	14° ≈ 14'47	
min. Earth dist.	8924 Feb 09 13:49	25° ≈ 40'55	0.67367 AU	min. Earth dist.	8925 Jan 23 01:38	10° ≈ 05'48	0.66250 AU
inferior conj	8924 Feb 10 22:17	23°≈57'17	0°44'24	inferior conj	8925 Jan 24 21:50	7°≈54'24	
minimum elong	8924 Feb 10 21:12	24°≈00'45	0°44'09	minimum elong	8925 Jan 24 22:10	7°≈53'23	0°12'17
morning rise	8924 Feb 16 13:23	18° ≈ 05'03		transit middle	8925 Jan 24 22:10	7° ≈ 53'23	0°12'17
direct	8924 Feb 19 22:16	16° ≈ 59'51		transit begin	8925 Jan 24 20:17	7° ≈ 58'59	
morning max el	8924 Feb 26 20:02	20° ≈ 47'10	19°05'46	transit end	8925 Jan 25 00:03	7° ≈ 47'47	
	8924 Mar 05 06:49	0°) €		asc. node	8925 Jan 25 12:59	7° ≈ 09'30	
greatest brilliancy	8924 Mar 11 07:05	8°) 49′54	-0.7m	morning rise	8925 Jan 30 21:46	2° ≈ 12'53	
desc. node	8924 Mar 14 02:11	13°) €05'16		direct	8925 Feb 02 20:16	1° ≈ 24'46	
morning set	8924 Mar 21 01:46	23° ¥ 51'34		morning max el	8925 Feb 09 08:31	4°≈54'05	18°22'40
	8924 Mar 25 00:44	0 ° Υ			8925 Feb 26 19:29	0° ∀	

desc. node	8925 Feb 28 23:04	3°) €25'49		morning rise	8926 Jan 15 00:48	16° ප 12'30	
morning set	8925 Mar 01 04:20	3°) (46'48		direct	8926 Jan 17 14:47	16 3 1230	
morning set	8923 Mai 01 04.20	3 Д4048			8926 Jan 24 00:59	13 3 3743	17°56'23
	0005 M 16 20 55	200 1/24/10	1020154	morning max el			1/3023
superior conj	8925 Mar 16 20:55	28°) 34'10			8926 Feb 01 06:36	0°≈	
minimum elong	8925 Mar 16 11:18	27°) 56'34	1°38'58	morning set	8926 Feb 10 12:23	15°≈09'38	
P. J. P.	8925 Mar 17 18:51	0° γ	1 15560 177	desc. node	8926 Feb 15 20:00	23°≈58'22	
max. Earth dist.	8925 Mar 17 18:26	29°) 58'22	1.45562 AU		8926 Feb 19 12:31	0° ∀	
evening rise	8925 Apr 01 19:10	23° Y 31'22				>/	
	8925 Apr 05 21:59	0° 8		superior conj	8926 Feb 24 09:35	7° ¥ 50′52	
greatest brilliancy	8925 Apr 12 00:21	9° 8 31'23	-0.8m	minimum elong	8926 Feb 24 02:48	7° ∺ 23'46	
asc. node	8925 Apr 23 11:41	25° 8 31'05		max. Earth dist.	8926 Feb 28 13:51	14° ∺ 27'59	1.45204 AU
evening max el	8925 Apr 24 13:02	26° 8 38'11	19°02'41		8926 Mar 10 13:22	0° Υ	
	8925 Apr 29 03:13	0°Ⅱ		evening rise	8926 Mar 12 11:29	2° Y 57'31	
retrograde	8925 May 01 09:22	0°Ⅱ27'58		greatest brilliancy	8926 Mar 27 00:08	24° Y 56'00	-0.6m
	8925 May 03 14:01	30° ₹ 8			8926 Mar 30 12:45	0°B	
evening set	8925 May 04 19:35	29° 8 19'46		evening max el	8926 Apr 07 18:06	10° 8 16'40	19°55'10
inferior conj	8925 May 10 07:45	23° 8 33'46	3°21'47	asc. node	8926 Apr 10 08:48	12° 8 36'49	
minimum elong	8925 May 10 07:51	23° 8 33'27	3°21'36	retrograde	8926 Apr 15 07:33	14° 8 38'01	
min. Earth dist.	8925 May 11 21:55	21° 8 32'11	0.66229 AU	evening set	8926 Apr 19 02:15	13° 8 14'49	
morning rise	8925 May 15 19:37	17° 8 14'49		inferior conj	8926 Apr 24 10:41	7° 8 14'44	3°16'35
direct	8925 May 22 03:39	14° 8 29'27		minimum elong	8926 Apr 24 09:40	7° 8 18'07	3°16'21
desc. node	8925 May 27 23:01	16° 8 20'18		min. Earth dist.	8926 Apr 25 10:15	5° 8 55'24	0.67426 AU
morning max el	8925 Jun 04 00:54	22° 8 09'58	26°23'30	morning rise	8926 Apr 29 16:47	0° 8 56'41	
	8925 Jun 10 21:27	$\Pi^{\circ}0$			8926 Apr 30 20:29	30° ₹ Υ	
	8925 Jul 01 03:24	0°€		direct	8926 May 05 13:37	28° Ƴ 19'37	
morning set	8925 Jul 10 00:47	15° 5 348'49			8926 May 10 19:58	0°B	
max. Earth dist.	8925 Jul 14 00:59	23°930'08	1.34781 AU	desc. node	8926 May 14 19:59	2° 8 58'33	
	8925 Jul 17 07:09	$0^{\circ}\Omega$		morning max el	8926 May 17 10:33		25°04'11
				C	8926 Jun 05 08:50	$\Pi^{\circ}0$	
superior conj	8925 Jul 19 00:16	3° Ω 29'52	-0°14'21	morning set	8926 Jun 22 11:09	27° Ⅲ 58'34	
minimum elong	8925 Jul 19 01:06	3° Ω 34'07	0°14'23	. 8	8926 Jun 23 14:12	0°9	
behind sun begin	8925 Jul 18 22:26	3° Ω 20′26		max. Earth dist.	8926 Jun 26 01:56	4° © 33'10	1.36722 AU
behind sun end	8925 Jul 19 03:45	3° Ω 47'47					
asc. node	8925 Jul 20 10:50	6°Ω28'18		superior conj	8926 Jul 02 12:06	16° © 50'17	-0°46'18
evening rise	8925 Jul 26 14:58	19° Ω 21'50		minimum elong	8926 Jul 02 14:58	17°504'24	0°46'00
e vennig 1150	8925 Jul 31 21:54	0° mp		asc. node	8926 Jul 07 07:50	26°\$28'59	0 .000
evening max el	8925 Aug 14 11:56	20° m 19'01	20°48'43	use. Houe	8926 Jul 09 01:30	0°N	
desc. node	8925 Aug 23 21:59	25° m 50'27	20 .0 .5	evening rise	8926 Jul 10 19:22	3° Ω 31'44	
retrograde	8925 Aug 26 00:25	26° Mp 01'34		evening rise	8926 Jul 26 11:07	0° m)	
evening set	8925 Aug 28 04:29	25° m 50'14		evening max el	8926 Jul 27 22:45	1° m) 34'32	19°37'00
inferior conj	8925 Sep 06 09:32	21° m 53'35	-3°54'14	retrograde	8926 Aug 06 18:12	6° m) 25'28	1) 3/00
minimum elong	8925 Sep 05 24:00	22° mp 07'10		evening set	8926 Aug 08 14:28	6° m 15'56	
min. Earth dist.	8925 Sep 07 05:30	21° Mp 25'06	0.54698 AU	desc. node	8926 Aug 10 19:07	5° Mp 41'30	
morning rise	8925 Sep 14 19:34	17° m) 55'44	0.54070710	inferior conj	8926 Aug 17 09:58	2° Mp 12'10	-2°01'49
direct	8925 Sep 14 19:34 8925 Sep 18 19:15	17° mp 21'41		minimum elong	8926 Aug 17 04:26	2° m/20'53	
morning max el	8925 Oct 01 21:20	23° m 38'22	23°05'32	min. Earth dist.	8926 Aug 19 17:20	0° m 45'10	0.55442 AU
morning max cr	8925 Oct 07 21:20 8925 Oct 07 14:20	ე∘ ი	25 05 52	iiiii. Lattii dist.	8926 Aug 20 23:20	30°RΩ	0.55442 AO
asc. node	8925 Oct 16 10:37	0 — 13° Ω 39'36		morning rise	8926 Aug 25 16:06	27° Ω 44'48	
morning set	8925 Oct 24 20:55	0°M18'14		direct	8926 Aug 30 10:59	26° £ 53'39	
morning set	8925 Oct 24 17:29	0°M		uncet	8926 Sep 08 14:45	0°m	
	0)23 Oct 24 17.2)	O IIG		morning max el	8926 Sep 13 09:30	3°Mp51'18	24°51'17
superior conj	8925 Oct 31 20:23	15°M18'42	1940!58	morning max ci	8926 Oct 01 20:03	0∘ ʊ 2 ₩21.19	24 31 17
minimum elong	8925 Oct 31 20:19	15°M18'19		asc. node	8926 Oct 01 20:03 8926 Oct 03 07:34	0 == 2° £ 47'52	
max. Earth dist.	8925 Nov 03 19:58	21°M38'33	1.33579 AU	morning set	8926 Oct 09 08:40	2 = 47 32 15° £ 06'26	
max. Earm dist.	8925 Nov 07 21:53	21 IIC3633 0° √	1.33379 AU	morning set	8920 OCI 09 08.40	13 = 00 20	
ovanina rica	8925 Nov 07 21:33 8925 Nov 08 15:02	0 x ⁴ 1° x¹ 25'11		superior conj	8926 Oct 16 05:22	0°M04'39	1°37'35
evening rise desc. node						29° £ 58'22	
uese. Hout	8925 Nov 19 20:34	21°ダ53'07 0°る		minimum elong	8926 Oct 16 04:13		1°37'38
ovening mas1	8925 Nov 24 22:16		27016140	may Earth 1:-4	8926 Oct 16 04:31	0°M	1 22/15/ 411
evening max el	8925 Dec 13 01:37	23° る 02'11	2/ 1048	max. Earth dist.	8926 Oct 17 22:22	3°M48'30	1.32456 AU
ratra a J-	8925 Dec 23 17:35	0°≈ 0°≈≈22127		evening rise	8926 Oct 23 11:06	15°M31'10	
retrograde	8925 Dec 26 13:17	0°≈23'37		, ,	8926 Oct 30 22:31	0°⊀ ⁷	
	8925 Dec 29 06:12	30°Rる		desc. node	8926 Nov 06 17:40	11° ₹ 39'24	
evening set	8926 Jan 02 09:23	27° る 48'18	0.64770.433		8926 Nov 19 19:18	0°る	27020122
min. Earth dist.	8926 Jan 06 06:07	24°る12'40	0.64778 AU	evening max el	8926 Nov 25 12:37	6° る 07'25	21~29'32
inferior conj	8926 Jan 08 13:59	21° る 40'44		retrograde	8926 Dec 09 06:55	13°る25'30	
minimum elong	8926 Jan 08 16:19	21° る 34'22	1*15'42	evening set	8926 Dec 16 08:17	10°る57'32	0.62002 411
asc. node	8926 Jan 12 10:02	17° る 53'07		min. Earth dist.	8926 Dec 20 01:23	1~03137	0.62992 AU

inferior conj	8926 Dec 22 19:58	5° る 09'01	-2°26'42	evening max el	8927 Nov 07 19:20	18° ∡ ³34'30	27°09'51
minimum elong	8926 Dec 23 00:40	4° る 57'30		retrograde	8927 Nov 21 16:32	25° х 45'37	2, 0, 01
morning rise	8926 Dec 29 19:09	29° ₹ 56'54		evening set	8927 Nov 28 16:36	23° х 34'59	
5 5	8926 Dec 29 15:47	30°R. ✓		min. Earth dist.	8927 Dec 02 10:03		0.60981 AU
asc. node	8926 Dec 30 07:06	29° ∡ 47'18		inferior conj	8927 Dec 05 12:31	18° √ 10'58	-3°38'07
direct	8927 Jan 01 02:55	29° ∡ ³31'33		minimum elong	8927 Dec 05 19:22	17° ∡ 56′12	3°35'38
	8927 Jan 03 13:23	0°ರ		morning rise	8927 Dec 13 00:31	13° ∡ 18'15	
morning max el	8927 Jan 07 18:25	2° ප 56'30	17°47'33	direct	8927 Dec 15 05:11	12° ∡ 58'40	
morning set	8927 Jan 23 21:29	27° る 44'45		asc. node	8927 Dec 17 04:10	13° ∡ 14'51	
	8927 Jan 25 04:26	0° ≈		morning max el	8927 Dec 22 09:28	16° ∡ ³34'43	17°57'06
desc. node	8927 Feb 02 16:57	14° ≈ 38′29			8927 Dec 31 19:45	8°0	
				morning set	8928 Jan 07 00:57	11° る 11'42	
superior conj	8927 Feb 04 20:02	18° ≈ 11'53	-0°15'39				
minimum elong	8927 Feb 04 18:26	18° ≈ 05'14	0°15'14	superior conj	8928 Jan 17 07:52	29° る 45'14	0°24'10
behind sun begin	8927 Feb 04 15:28	17° ≈ 52'57		minimum elong	8928 Jan 17 09:51	29° る 53'55	0°24'05
behind sun end	8927 Feb 04 21:23	18° ≈ 17'31			8928 Jan 17 11:14	0° ≈	
max. Earth dist.	8927 Feb 11 07:14	28° ≈ 44'47	1.44145 AU	desc. node	8928 Jan 20 13:53	5° ≈ 22'13	
	8927 Feb 12 02:02	0° ∀		max. Earth dist.	8928 Jan 24 20:50	12° ≈ 34′20	1.42511 AU
evening rise	8927 Feb 19 23:02	12°) 20′42		evening rise	8928 Jan 30 20:48	22° ≈ 16′24	
	8927 Mar 03 16:09	$0^{\circ}\mathbf{\Upsilon}$			8928 Feb 04 19:45	0° ∀	
evening max el	8927 Mar 21 17:44	23° Y 57'17	21°01'12		8928 Feb 25 21:08	$0^{\circ}\mathbf{\Upsilon}$	
asc. node	8927 Mar 28 05:54	28° Ƴ 37'06		evening max el	8928 Mar 03 12:19		22°16'55
retrograde	8927 Mar 30 06:03	28° Y 57′25		retrograde	8928 Mar 13 03:06	13° Y 21′06	
evening set	8927 Apr 03 10:23	27° Y 18'55		asc. node	8928 Mar 14 03:02	13° Y 16′06	
inferior conj	8927 Apr 08 17:32	21° Y 06'54	2°59'59	evening set	8928 Mar 17 18:16	11° Y 27'22	
minimum elong	8927 Apr 08 15:44	21° Υ 13'07	2°59'34	inferior conj	8928 Mar 23 02:10	5° Υ ′06'00	
min. Earth dist.	8927 Apr 09 03:35	20° Y 32'04	0.68175 AU	minimum elong	8928 Mar 22 23:58		2°32'51
morning rise	8927 Apr 13 20:52	14° Y 51'59		min. Earth dist.	8928 Mar 22 23:39	5°Υ14'44	0.68483 AU
direct	8927 Apr 19 04:34	12° Y 31′01			8928 Mar 27 02:30	30°₽)	
morning max el	8927 Apr 29 19:46	18° Y 51'32	23°35'23	morning rise	8928 Mar 28 05:31	28°) 55'43	
desc. node	8927 May 01 16:57	20° Y 50'42		direct	8928 Apr 01 23:20	26°) ₹55'35	
	8927 May 09 04:57	8°0			8928 Apr 08 16:39	0°Υ 2°Υ23'49	22006144
. ,	8927 May 29 11:52	0°Ⅱ 9°Ⅱ06'06		morning max el	8928 Apr 11 07:28	2°γ23'49 9° Υ 35'42	22°06'44
morning set	8927 Jun 03 23:50	9°Щ06'06 15°Щ52'02	1 20045 ATT	desc. node	8928 Apr 17 13:51	9° 1 ′35′42 0° と	
max. Earth dist.	8927 Jun 07 22:00	13°Щ32'02	1.38945 AU	morning set	8928 May 02 04:18	18° 8 59'04	
superior conj	8927 Jun 15 10:31	29° Ⅱ 30'39	1018115	morning set max. Earth dist.	8928 May 14 09:57 8928 May 19 20:48	27° 8 57'01	1.41187 AU
minimum elong	8927 Jun 15 15:27	29° I I53'46	1°17'45	max. Earth dist.	8928 May 21 02:01	0°Ⅱ	1.41167 AU
minimum ciong	8927 Jun 15 15:27 8927 Jun 15 16:47	0°95	1 1/43		6926 May 21 02.01	υд	
asc. node	8927 Jun 24 04:51	16° 5 21'15		superior conj	8928 May 27 15:00	11° Ⅱ 19'49	-1°46'46
evening rise	8927 Jun 24 16:27	17°917'36		minimum elong	8928 May 27 21:01	11° ∏ 46'28	
e vennig rise	8927 Jul 01 10:18	0°Ω		minimum ciong	8928 Jun 06 20:09	0°95	1 1023
evening max el	8927 Jul 10 21:44	13° Ω 34'37	18°46'03	evening rise	8928 Jun 07 02:38	0°930'08	
retrograde	8927 Jul 19 04:03	17° Ω 40'51	10 .005	asc. node	8928 Jun 10 01:52	6°500'09	
evening set	8927 Jul 21 04:00	17° Ω 27'21		evening max el	8928 Jun 23 05:13	26° © 11'03	18°15'40
desc. node	8927 Jul 28 16:13	13° Ω 29'34		retrograde	8928 Jun 30 09:15	29° © 47'29	
inferior conj	8927 Jul 29 05:05	13° Ω 06′09	-0°09'47	evening set	8928 Jul 02 16:23	29° 5 25'59	
minimum elong	8927 Jul 29 04:41	13° Ω 06′53	0°09'50	inferior conj	8928 Jul 09 21:56	24°543'58	1°20'14
transit middle	8927 Jul 29 04:41	13° Ω 06′53	0°09'50	minimum elong	8928 Jul 10 00:23	24°538'43	1°19'11
transit begin	8927 Jul 29 01:45	13° Ω 12′13		min. Earth dist.	8928 Jul 13 07:05	21° 5 51'22	0.59083 AU
transit end	8927 Jul 29 07:36	13° Ω 01'32		desc. node	8928 Jul 14 13:18	20° © 52'16	
min. Earth dist.	8927 Aug 01 09:14	10° Ω 47'46	0.57005 AU	morning rise	8928 Jul 17 05:12	19° © 06'42	
morning rise	8927 Aug 06 01:56	8° Ω 01'51		direct	8928 Jul 23 12:01	17° © 19'13	
direct	8927 Aug 11 16:47	6° Ω 44'58		morning max el	8928 Aug 06 20:59	25° © 07'07	27°28'11
morning max el	8927 Aug 26 00:02	14° Ω 12'37	26°23'53		8928 Aug 11 09:01	$0 {\circ} \Omega$	
	8927 Sep 07 14:04	0° m			8928 Aug 30 22:11	0° m	
asc. node	8927 Sep 20 04:33	22° m 19'15		asc. node	8928 Sep 06 01:29	12°M 06'50	
morning set	8927 Sep 23 19:14	29° Mp 48'35		morning set	8928 Sep 07 02:57	14° m 19'43	
	8927 Sep 23 21:23	0 ∘ ⊽		max. Earth dist.	8928 Sep 13 16:28	28° Mp 35'45	1.31590 AU
				aumorior coni	8928 Sep 14 04:24	29° m 42'00	1°14'08
superior conj	8927 Sep 30 16:40	14° ≙ 54'24		superior conj	•	-•	
minimum elong	8927 Sep 30 14:46	14° ≏ 43'53	1°28'21	minimum elong	8928 Sep 14 02:10	29° m 29'36	1°13'47
minimum elong max. Earth dist.	8927 Sep 30 14:46 8927 Oct 01 06:23	14° ≙ 43'53 16° ≙ 10'27		minimum elong	8928 Sep 14 02:10 8928 Sep 14 07:39	29° M 29'36 0° <u>Ω</u>	
minimum elong	8927 Sep 30 14:46 8927 Oct 01 06:23 8927 Oct 07 14:23	14° Ω 43'53 16° Ω 10'27 29° Ω 55'37	1°28'21		8928 Sep 14 02:10 8928 Sep 14 07:39 8928 Sep 20 22:28	29° № 29'36 0° <u>Ω</u> 14° <u>Ω</u> 31'19	
minimum elong max. Earth dist.	8927 Sep 30 14:46 8927 Oct 01 06:23 8927 Oct 07 14:23 8927 Oct 07 15:13	14° Ω 43'53 16° Ω 10'27 29° Ω 55'37 0° M	1°28'21	minimum elong evening rise	8928 Sep 14 02:10 8928 Sep 14 07:39 8928 Sep 20 22:28 8928 Sep 28 15:14	29° m 29'36 0° <u>a</u> 14° <u>a</u> 31'19 0° m	
minimum elong max. Earth dist.	8927 Sep 30 14:46 8927 Oct 01 06:23 8927 Oct 07 14:23	14° Ω 43'53 16° Ω 10'27 29° Ω 55'37	1°28'21	minimum elong	8928 Sep 14 02:10 8928 Sep 14 07:39 8928 Sep 20 22:28	29° № 29'36 0° <u>Ω</u> 14° <u>Ω</u> 31'19	

evening max el	8928 Oct 19 18:54	0° ₹ 12'28	26°16'18	desc. node	8929 Sep 27 09:01	6°M39'39	
retrograde	8928 Nov 02 16:52	7°×12'28	20 10 18	evening max el	8929 Oct 01 10:12	10°M59'24	24°53'50
evening set	8928 Nov 09 05:50	5°×733'46		retrograde	8929 Oct 01 10:12 8929 Oct 15 06:23	10 1163924 17°11657'35	24 33 30
min. Earth dist.	8928 Nov 13 08:01		0.58883 AU	evening set	8929 Oct 13 00:23 8929 Oct 20 19:22	16°M48'27	
inferior conj	8928 Nov 16 12:08	0° ₹ 36'55		min. Earth dist.	8929 Oct 25 21:32		0.56931 AU
minimum elong	8928 Nov 16 12:08	0° ₹ 30°33		inferior conj	8929 Oct 28 15:48	12°M16'51	
minimum clong	8928 Nov 17 07:55	30°RM	4 41 24	minimum elong	8929 Oct 28 13:48 8929 Oct 28 20:02	12°M09'55	
morning rise	8928 Nov 24 11:34	26°M06'38		morning rise	8929 Oct 28 20:02 8929 Nov 05 22:59	8°M09'19	3 28 03
direct	8928 Nov 26 17:12	25°M49'36		direct	8929 Nov 08 10:38	7°M51'53	
asc. node	8928 Dec 03 01:11	28°M15'27		morning max el	8929 Nov 17 18:14	12°M17'49	19°17'52
morning max el	8928 Dec 03 01:11 8928 Dec 04 18:39	29°M45'38	18°26'37	asc. node	8929 Nov 17 18:14 8929 Nov 19 22:11	14°M35'28	19 17 32
morning max ci	8928 Dec 04 18:39 8928 Dec 05 00:30	29 11 0 43 38	16 20 37	asc. nouc	8929 Nov 19 22:11 8929 Nov 29 19:10	0° √	
morning set	8928 Dec 03 00:30 8928 Dec 20 17:21	25° х 14′32		morning set	8929 Nov 29 19:10 8929 Dec 04 18:27	9° х ⁷ 40'02	
morning set		23 x・1432		morning set	8929 Dec 04 18.27	9 8.4002	
	8928 Dec 23 04:47	0.0		aumarian aani	8929 Dec 12 21:30	25° ∡ ¹48'32	1°18'45
superior conj	8928 Dec 29 18:05	12° る 22'41	0°55'54	superior conj minimum elong	8929 Dec 12 21:30 8929 Dec 13 00:30	25 x 48 32 26° x 03'06	1°18'40
	8928 Dec 29 18:03 8928 Dec 29 21:21	12 3 2241 12° 3 37'49	0°55'41	minimum clong	8929 Dec 15 00:30 8929 Dec 15 01:46	20 x 03 00 0°る	1 10 40
minimum elong	8928 Dec 29 21:21 8929 Jan 06 05:52	12 3 3749 25° る 45'08		max. Earth dist.		8° る 12'49	1 20200 ATT
max. Earth dist.			1.40483 AU		8929 Dec 19 11:38	8°612'49 14° る 52'52	1.38298 AU
desc. node	8929 Jan 06 10:50	26° ප 06'31		evening rise	8929 Dec 23 05:28		
	8929 Jan 08 17:42	0° ≈		desc. node	8929 Dec 24 07:49	16° る 47'06	
evening rise	8929 Jan 10 14:15	3°≈06'04			8930 Jan 01 07:58	0° ≈	
	8929 Jan 28 02:30	0°) (8930 Jan 22 21:09	0° ∀	
evening max el	8929 Feb 14 03:17	21°) (24'16	23°36'56	evening max el	8930 Jan 27 16:31	5°) 11'31	24°55'03
retrograde	8929 Feb 24 21:20	27°) (45'00		retrograde	8930 Feb 08 11:45	12°) €03'31	
asc. node	8929 Mar 01 00:09	26° ∺ 23'07		evening set	8930 Feb 14 03:11	9°) 42'34	
evening set	8929 Mar 02 00:23	25°) ₹36'44		asc. node	8930 Feb 15 21:15	8° ₩ 00'17	
inferior conj	8929 Mar 07 10:42	19° ∺ 09'24	1°57'49	min. Earth dist.	8930 Feb 18 15:21	4°) 38′59	0.67844 AU
minimum elong	8929 Mar 07 08:32	19° ∺ 16'48	1°57'11	inferior conj	8930 Feb 19 17:17	3° ¥ 13′32	1°13'38
min. Earth dist.	8929 Mar 06 20:18	19° ∺ 58'40	0.68367 AU	minimum elong	8930 Feb 19 15:39	3° ¥ 18′56	1°13'09
morning rise	8929 Mar 12 16:41	13°) (04′57			8930 Feb 22 06:52	30° ₹ ≈	
direct	8929 Mar 16 20:49	11°)(27'14		morning rise	8930 Feb 25 04:23	27°≈16′21	
morning max el	8929 Mar 25 01:12	16°) (07'44	20°45'52	direct	8930 Feb 28 19:49	26° ≈ 00'07	
desc. node	8929 Apr 04 10:44	28° 升 59'14		morning max el	8930 Mar 08 02:45	0°) €03'34	19°37'51
	8929 Apr 05 04:10	0 ° Υ			8930 Mar 08 01:18	0°)	
morning set	8929 Apr 23 18:36	27° Y 44'21		greatest brilliancy	8930 Mar 20 19:43	16° ∺ 37'57	-0.7m
	8929 Apr 25 05:20	0°8		desc. node	8930 Mar 22 07:37	18° ¥ 50'41	
max. Earth dist.	8929 May 02 02:19	10° 8 56'51	1.43157 AU		8930 Mar 29 16:55	0° Y	
				morning set	8930 Apr 02 16:23	6° Y 06′10	
superior conj	8929 May 08 21:01	22° 8 07'57	-2°06'44	max. Earth dist.	8930 Apr 14 14:25	24° Y '41'43	1.44621 AU
minimum elong	8929 May 09 01:17	22° 8 25'55	2°06'44		8930 Apr 17 22:22	0°B	
	8929 May 13 11:51	Π $^{\circ}0$					
evening rise	8929 May 20 21:38	12° Ⅱ 59'18		superior conj	8930 Apr 19 02:24	1° 8 52'30	-2°11'51
asc. node	8929 May 27 22:54	25° Ⅱ 20'35		minimum elong	8930 Apr 19 00:51	1° 8 46'15	2°11'57
	8929 May 30 18:44	0 \circ \odot		evening rise	8930 May 02 20:41	24° 8 34'37	
evening max el	8929 Jun 06 17:22	9° © 14'36	18°05'01		8930 May 06 01:51	$\Pi^{\circ}0$	
retrograde	8929 Jun 13 06:45	12° © 36'59		asc. node	8930 May 14 19:58	14° Ⅱ 16′00	
evening set	8929 Jun 15 21:27	12° © 04'34		evening max el	8930 May 21 06:51	22° Ⅲ 36'37	18°13'20
inferior conj	8929 Jun 22 10:25	7° 5 02'39	2°22'46	retrograde	8930 May 27 15:56	25° Ⅱ 59'19	
minimum elong	8929 Jun 22 13:21	6° © 55'23	2°21'46	evening set	8930 May 30 14:03	25° Ⅱ 13'58	
min. Earth dist.	8929 Jun 25 13:11	3° © 58'55	0.61338 AU	inferior conj	8930 Jun 05 14:27	19° Ⅲ 53'56	3°00'40
morning rise	8929 Jun 29 02:55	1° 5 02'25		minimum elong	8930 Jun 05 16:33	19° Ⅱ 48′03	3°00'05
	8929 Jun 30 20:59	30°RⅡ		min. Earth dist.	8930 Jun 08 04:35	17° Ⅱ 01'38	0.63488 AU
desc. node	8929 Jul 01 10:21	29° Ⅱ 44′03		morning rise	8930 Jun 11 17:39	13° Ⅱ 41′04	
direct	0727 Jul 01 10.21						
	8929 Jul 05 18:51	28° Ⅱ 46′01		direct	8930 Jun 18 11:25	11° Ⅱ 03'59	
		28°Ⅲ46′01 0°©		direct desc. node		11° Ⅲ 03'59 11° Ⅲ 04'05	
morning max el	8929 Jul 05 18:51		27°55'23		8930 Jun 18 11:25		27°44'38
morning max el	8929 Jul 05 18:51 8929 Jul 10 23:35	0ಂತ	27°55'23	desc. node	8930 Jun 18 11:25 8930 Jun 18 07:22	11° Ⅱ 04'05	27°44'38
morning max el morning set	8929 Jul 05 18:51 8929 Jul 10 23:35 8929 Jul 20 00:48	0°ഇ 6°ഇ46′17	27°55'23	desc. node	8930 Jun 18 11:25 8930 Jun 18 07:22 8930 Jul 02 09:17	11° Д 04'05 19° Д 06'57	27°44'38
-	8929 Jul 05 18:51 8929 Jul 10 23:35 8929 Jul 20 00:48 8929 Aug 06 14:53	0°© 6°©46′17 0°Ω	27°55'23	desc. node	8930 Jun 18 11:25 8930 Jun 18 07:22 8930 Jul 02 09:17 8930 Jul 11 14:32	11°∏04'05 19°∏06'57 0°©	27°44'38
-	8929 Jul 05 18:51 8929 Jul 10 23:35 8929 Jul 20 00:48 8929 Aug 06 14:53 8929 Aug 22 05:54	0°© 6°©46'17 0°Ω 28°Ω34'25	27°55'23	desc. node morning max el	8930 Jun 18 11:25 8930 Jun 18 07:22 8930 Jul 02 09:17 8930 Jul 11 14:32 8930 Jul 30 13:37	11°∏04'05 19°∏06'57 0°ᢒ 0°Ω	27°44'38
morning set	8929 Jul 05 18:51 8929 Jul 10 23:35 8929 Jul 20 00:48 8929 Aug 06 14:53 8929 Aug 22 05:54 8929 Aug 22 22:27	0°© 6°©46'17 0°N 28°N34'25 0°M	27°55'23 1.31857 AU	desc. node morning max el morning set	8930 Jun 18 11:25 8930 Jun 18 07:22 8930 Jul 02 09:17 8930 Jul 11 14:32 8930 Jul 30 13:37 8930 Aug 06 01:51	11°∏04'05 19°∏06'57 0°ᢒ 0°Ω 12°Ω26'37	27°44'38 1.32608 AU
morning set	8929 Jul 05 18:51 8929 Jul 10 23:35 8929 Jul 20 00:48 8929 Aug 06 14:53 8929 Aug 22 05:54 8929 Aug 22 22:27 8929 Aug 23 22:24	0°5 6°546'17 0°N 28°N34'25 0°M 2°M05'09		desc. node morning max el morning set asc. node	8930 Jun 18 11:25 8930 Jun 18 07:22 8930 Jul 02 09:17 8930 Jul 11 14:32 8930 Jul 30 13:37 8930 Aug 06 01:51 8930 Aug 10 19:20	11° ∏ 04'05 19° ∏ 06'57 0° ⑤ 0° Ω 12° Q 26'37 22° Q 09'50	
morning set	8929 Jul 05 18:51 8929 Jul 10 23:35 8929 Jul 20 00:48 8929 Aug 06 14:53 8929 Aug 22 05:54 8929 Aug 22 22:27 8929 Aug 23 22:24	0°5 6°546'17 0°N 28°N34'25 0°M 2°M05'09		desc. node morning max el morning set asc. node	8930 Jun 18 11:25 8930 Jun 18 07:22 8930 Jul 02 09:17 8930 Jul 11 14:32 8930 Jul 30 13:37 8930 Aug 06 01:51 8930 Aug 10 19:20	11° ∏ 04'05 19° ∏ 06'57 0° ⑤ 0° Ω 12° Q 26'37 22° Q 09'50	
morning set asc. node max. Earth dist.	8929 Jul 05 18:51 8929 Jul 10 23:35 8929 Jul 20 00:48 8929 Aug 06 14:53 8929 Aug 22 05:54 8929 Aug 22 22:27 8929 Aug 23 22:24 8929 Aug 28 00:45	0°5 6°546'17 0°A 28°A34'25 0°m 2°m05'09 10°m53'05	1.31857 AU	morning max el morning set asc. node max. Earth dist.	8930 Jun 18 11:25 8930 Jun 18 07:22 8930 Jul 02 09:17 8930 Jul 11 14:32 8930 Jul 30 13:37 8930 Aug 06 01:51 8930 Aug 10 19:20 8930 Aug 11 03:13	11°Π04'05 19°Π06'57 0°ℱ 0°ብ 12°ብ26'37 22°ብ09'50 22°ብ51'27	1.32608 AU
morning set asc. node max. Earth dist. superior conj	8929 Jul 05 18:51 8929 Jul 10 23:35 8929 Jul 20 00:48 8929 Aug 06 14:53 8929 Aug 22 05:54 8929 Aug 22 22:27 8929 Aug 23 22:24 8929 Aug 28 00:45	0°5 6°546'17 0° N 28° N34'25 0° M 2° M05'09 10° M53'05	1.31857 AU 0°54'50	desc. node morning max el morning set asc. node max. Earth dist. superior conj	8930 Jun 18 11:25 8930 Jun 18 07:22 8930 Jul 02 09:17 8930 Jul 11 14:32 8930 Jul 30 13:37 8930 Aug 06 01:51 8930 Aug 10 19:20 8930 Aug 11 03:13	11° Π04'05 19° Π06'57 0° Φ 0° Ω 12° Ω26'37 22° Ω09'50 22° Ω51'27 28° Ω48'39	1.32608 AU 0°30'59
morning set asc. node max. Earth dist. superior conj minimum elong	8929 Jul 05 18:51 8929 Jul 10 23:35 8929 Jul 20 00:48 8929 Aug 06 14:53 8929 Aug 22 05:54 8929 Aug 22 22:27 8929 Aug 23 22:24 8929 Aug 28 00:45 8929 Aug 29 14:48 8929 Aug 29 12:42	0°5 6°546'17 0° N 28° N34'25 0° M 2° M05'09 10° M53'05 14° M21'48 14° M10'16	1.31857 AU 0°54'50	desc. node morning max el morning set asc. node max. Earth dist. superior conj	8930 Jun 18 11:25 8930 Jun 18 07:22 8930 Jul 02 09:17 8930 Jul 11 14:32 8930 Jul 30 13:37 8930 Aug 06 01:51 8930 Aug 10 19:20 8930 Aug 11 03:13 8930 Aug 13 22:00 8930 Aug 13 20:35	11° Π04'05 19° Π06'57 0° Φ 0° Ω 12° Ω26'37 22° Ω09'50 22° Ω51'27 28° Ω48'39 28° Ω41'00	1.32608 AU 0°30'59
morning set asc. node max. Earth dist. superior conj minimum elong	8929 Jul 05 18:51 8929 Jul 10 23:35 8929 Jul 20 00:48 8929 Aug 06 14:53 8929 Aug 22 05:54 8929 Aug 22 22:27 8929 Aug 23 22:24 8929 Aug 28 00:45 8929 Aug 29 14:48 8929 Aug 29 12:42 8929 Sep 05 09:15	0°50 6°5046'17 0° N 28° N 34'25 0° M 2° M 05'09 10° M 53'05 14° M 21'48 14° M 10'16 29° M 11'55	1.31857 AU 0°54'50	desc. node morning max el morning set asc. node max. Earth dist. superior conj minimum elong	8930 Jun 18 11:25 8930 Jun 18 07:22 8930 Jul 02 09:17 8930 Jul 11 14:32 8930 Jul 30 13:37 8930 Aug 06 01:51 8930 Aug 10 19:20 8930 Aug 11 03:13 8930 Aug 13 22:00 8930 Aug 13 20:35 8930 Aug 14 11:12	11° \$\Pi04'05\$ 19° \$\Pi06'57\$ 0° \$\Pi\$ 0° \$\Omega\$ 12° \$\Omega 26'37\$ 22° \$\Omega 09'50\$ 22° \$\Omega 51'27\$ 28° \$\Omega 48'39\$ 28° \$\Omega 41'00\$ 0° \$\Pi\$	1.32608 AU 0°30'59

i1	0020 C 12 21.17	219 0 14/26	22015120		9021 A 05 07-22	200 025126	
evening max el	8930 Sep 12 21:17	21° £ 14'26	23 13 39	evening rise	8931 Aug 05 07:22	28° Ω 25'26	
desc. node	8930 Sep 14 06:09	22° Ω 30'28			8931 Aug 06 01:25	0° m/	
retrograde	8930 Sep 26 07:38	27° £ 56'59			8931 Aug 24 01:26	0∘ ⊽	21020125
evening set	8930 Sep 30 09:33	27° £ 20'37		evening max el	8931 Aug 25 12:41	1° £ 31'32	21°38'37
min. Earth dist.	8930 Oct 07 06:44		0.55438 AU	desc. node	8931 Sep 01 03:17	6° £ 20'04	
inferior conj	8930 Oct 08 23:42	23° Ω 09'21		retrograde	8931 Sep 06 21:49	7° ≙ 40'08	
minimum elong	8930 Oct 08 20:44	23° £ 13'42	5°34'22	evening set	8931 Sep 09 14:28	7° £ 23'43	
morning rise	8930 Oct 17 09:56	19° ≏ 18'08		inferior conj	8931 Sep 18 18:10	3° £ 25'39	-4°45'53
direct	8930 Oct 20 08:53	18° ≙ 57'10		minimum elong	8931 Sep 18 09:03	3° ≏ 38'23	4°43'50
morning max el	8930 Oct 31 05:14	24° ≏ 02'49	20°31'34	min. Earth dist.	8931 Sep 18 14:58	3° ഫ 30'08	0.54706 AU
	8930 Nov 05 09:15	0° M.			8931 Sep 25 20:24	30°R, Mp	
asc. node	8930 Nov 06 19:09	1° M 59'40		morning rise	8931 Sep 27 04:41	29° m 36'03	
morning set	8930 Nov 19 01:16	24°M19'43		direct	8931 Sep 30 18:55	29° Mp 07'54	
	8930 Nov 21 19:04	0° ∡ ¹			8931 Oct 05 12:53	0∘ ত	
				morning max el	8931 Oct 13 03:21	4° £ 58'47	22°05'27
superior conj	8930 Nov 26 13:29	9° ∡ ¹49'25	1°33'12	asc. node	8931 Oct 24 16:07	20° ≙ 13'28	
minimum elong	8930 Nov 26 15:26	9° × 759'16	1°33'17	use. Houe	8931 Oct 30 00:10	0°M	
max. Earth dist.	8930 Dec 01 18:52	20°×711'12	1.36216 AU	morning set	8931 Nov 03 11:28	9° 11 L07'07	
	8930 Dec 01 18:32 8930 Dec 05 16:16	20 × 11 12 27°× 31'09	1.30210 AU	morning set	6931 NOV 03 11.26	9 1160707	
evening rise					002131 10 14 17	2.40 m 1.412.6	1040105
	8930 Dec 07 00:55	0°る		superior conj	8931 Nov 10 14:17	24°M14'26	1°40'05
desc. node	8930 Dec 11 04:51	7° る 19'54		minimum elong	8931 Nov 10 14:56	24°M17'51	1°40'16
	8930 Dec 25 16:51	0° ≈			8931 Nov 13 08:31	0°⊀	
evening max el	8931 Jan 10 05:40	18° ≈ 58'51	26°04'13	max. Earth dist.	8931 Nov 14 08:47	2° ҂ 04'24	1.34428 AU
retrograde	8931 Jan 22 21:15	26° ≈ 10′36		evening rise	8931 Nov 18 18:51	10° ₹ 51'09	
evening set	8931 Jan 29 00:59	23° ≈ 40′10		desc. node	8931 Nov 28 01:56	27° ∡ ¹40'05	
min. Earth dist.	8931 Feb 02 06:35	19° ≈ 11'06	0.66934 AU		8931 Nov 29 11:23	0°ರ	
asc. node	8931 Feb 02 18:21	18° ≈ 34'47			8931 Dec 21 04:15	0° ≈	
inferior conj	8931 Feb 03 20:01	17°≈14'47	0°21'11	evening max el	8931 Dec 23 19:09	2°≈39'36	26°56'57
minimum elong	8931 Feb 03 19:28	17°≈16'30	0°21'08	retrograde	8932 Jan 06 01:05	9° ≈ 59'30	
morning rise	8931 Feb 09 14:36	11° ≈ 26'40		evening set	8932 Jan 12 15:53	7° ≈ 24'23	
direct	8931 Feb 12 18:46	10° ≈ 29'18		min. Earth dist.	8932 Jan 16 15:42	3°≈29'33	0.65660 AU
morning max el	8931 Feb 19 11:42	14°≈07'54	18°45'19	inferior conj	8932 Jan 18 16:46	1°≈08'39	
morning max cr	8931 Mar 03 08:10	0° ∀	10 43 17	minimum elong	8932 Jan 18 17:54	1°≈05'26	0°38'22
desc. node	8931 Mar 09 04:32	9°) 02'30		minimum clong	8932 Jan 19 16:54	1 ≈03 20 30°Rる	0 38 22
		15°\tag{13'52}		4-		30 KO 28° ろ 58'31	
morning set	8931 Mar 13 03:31			asc. node	8932 Jan 20 15:27		
F 4 F	8931 Mar 22 14:05	0° Υ	1 15120 177	morning rise	8932 Jan 24 21:04	25° る 32'09	
max. Earth dist.	8931 Mar 28 07:26	8° Ƴ 57'15	1.45430 AU	direct	8932 Jan 27 15:44	24° ろ 50'05	
				morning max el	8932 Feb 03 02:11	28° る 15'21	18°09'23
superior conj	8931 Mar 29 12:23	10° Y 50'40			8932 Feb 04 17:15	0° ≈	
minimum elong	8931 Mar 29 04:11	10° Ƴ 18'31	1°56'40	morning set	8932 Feb 21 18:56	25° ≈ 48′16	
	8931 Apr 10 14:53	$8^{\circ 0}$		desc. node	8932 Feb 24 01:27	29° ≈ 29'13	
evening rise	8931 Apr 13 20:17	5° 8 10'24			8932 Feb 24 09:04	0° ℋ	
greatest brilliancy	8931 Apr 20 17:15	16° 8 13'29	-0.9m				
	8931 Apr 29 17:49	$\Pi^{\circ}0$		superior conj	8932 Mar 07 18:33	19°) 46′05	-1°24'00
asc. node	8931 May 01 17:03	2° Ⅲ 37'35		minimum elong	8932 Mar 07 09:28	19° 升 10′20	1°22'55
evening max el	8931 May 04 18:46	6° Ⅱ 09'09	18°39'46	max. Earth dist.	8932 Mar 10 03:20	23° ¥ 28'57	1.45502 AU
retrograde	8931 May 11 08:35	9° Ⅱ 45'20			8932 Mar 14 07:24	$_{0}$ $^{\circ}$ Υ	
evening set	8931 May 14 14:17	8° Ⅱ 45'43		evening rise	8932 Mar 23 21:51	14° Ƴ 56'06	
inferior conj	8931 May 20 05:57	3° П 08'59	3°18'43	0.00000	8932 Apr 02 15:44	0°8	
minimum elong	8931 May 20 06:47	3°П06'26	3°18'26	greatest brilliancy	8932 Apr 05 04:24	3° 8 50'16	-0.7m
min. Earth dist.	8931 May 22 05:01	0° П 45'30	0.65347 AU	evening max el	8932 Apr 17 02:54	19° 8 47'29	19°23'09
iiiii. Lattii dist.	-	30° ₹ 8	0.03347 AU	=	-	20° 8 15'21	19 23 09
	8931 May 22 20:28			asc. node	8932 Apr 17 14:10		
morning rise	8931 May 25 22:33	26° 8 51'00		retrograde	8932 Apr 24 05:31	23° 8 49'02	
direct	8931 Jun 01 11:42	24° 8 05'02		evening set	8932 Apr 27 19:19	22° 8 34'25	
desc. node	8931 Jun 05 04:24	24° 8 50'05		inferior conj	8932 May 03 05:34	16° 8 42'22	3°21'04
	8931 Jun 12 18:51	Π $^{\circ}0$		minimum elong	8932 May 03 05:10	16° 8 43'41	3°20'53
morning max el	8931 Jun 14 19:36	1° Ⅱ 57'41	27°00'37	min. Earth dist.	8932 May 04 13:25	14° 8 58'17	0.66802 AU
	8931 Jul 05 18:55	0 \circ \odot		morning rise	8932 May 08 14:39	10° 8 23'43	
morning set	8931 Jul 20 11:52	25° 5 47'13		direct	8932 May 14 18:23	7° 8 40'44	
	8931 Jul 22 15:46	$0^{\circ}\Omega$		desc. node	8932 May 22 01:23	10° 8 34'50	
max. Earth dist.	8931 Jul 24 20:23		1.33851 AU	morning max el	8932 May 27 05:45	15° 8 08'12	25°51'29
				Č	8932 Jun 08 10:05	0°II	
superior conj	8931 Jul 28 23:49	12° Ω 55'26	0°03'10		8932 Jun 27 14:59	0°ಅ	
minimum elong	8931 Jul 28 23:39	12° £ 53′20′ 12° £ 54′37′	0°02'56	morning set	8932 Jul 02 08:12	8°926'24	
behind sun begin	8931 Jul 28 18:05	$12^{\circ} \Omega 25'23$	0 02 30	max. Earth dist.	8932 Jul 02 08:12 8932 Jul 06 02:57		1.35569 AU
_				max. Earth tilst.	5752 Jul 00 02.3/	04 کارکوټ د ۱	1.33309 AU
behind sun end	8931 Jul 29 05:14	13° Ω 23'54		aumori	9022 Jul 11 17 40	2606225125	0027!44
asc. node	8931 Jul 28 16:17	12° Ω 15'59		superior conj	8932 Jul 11 17:40	26° © 35'27	-U 2/44

minimum elong	8932 Jul 11 19:19	26° © 43'47	0°27'37	minimum elong	8933 Jun 25 04:05	9° © 58'28	0°59'36
	8932 Jul 13 09:56	$0^{\circ}\Omega$		asc. node	8933 Jul 01 10:18	22°518'01	
asc. node	8932 Jul 14 13:17	2° Ω 20′06		evening rise	8933 Jul 03 16:24	26° © 47'24	
evening rise	8932 Jul 19 14:42	12° Ω 46′12			8933 Jul 05 07:21	$0^{\circ}\Omega$	
	8932 Jul 28 14:27	0° m p		evening max el	8933 Jul 20 07:58	23° Ω 56'16	19°12'40
evening max el	8932 Aug 06 15:42	12°M/21'22	20°15'38	retrograde	8933 Jul 29 10:39	28° Ω 27'07	
retrograde	8932 Aug 17 10:30	17° m 41'33		evening set	8933 Jul 31 07:36	28° Ω 16′28	
desc. node	8932 Aug 18 00:25	17° m 40'40		desc. node	8933 Aug 04 21:31	26° Ω 32'14	
evening set	8932 Aug 19 09:34	17° m 31'44		inferior conj	8933 Aug 08 19:46	24° Ω 05'39	-1°12'31
inferior conj	8932 Aug 28 12:12	13° m 33'39	-3°08'28	minimum elong	8933 Aug 08 16:34	24° Ω 11′00	1°11'26
minimum elong	8932 Aug 28 03:51	13° m 45'56	3°05'41	min. Earth dist.	8933 Aug 11 13:46	22° Ω 15'33	0.56021 AU
min. Earth dist.	8932 Aug 30 00:34	12° m 40'09	0.54909 AU	morning rise	8933 Aug 16 22:38	19° Ω 22'47	
morning rise	8932 Sep 05 21:12	9° Mp 25′26		direct	8933 Aug 22 01:58	18° Ω 21'58	
direct	8932 Sep 10 05:03	8° m 45'05		morning max el	8933 Sep 05 05:34	25° Ω 33'19	25°33'26
morning max el	8932 Sep 23 16:57	15° m 19'33	23°51'05		8933 Sep 09 09:53	O° My	
	8932 Oct 05 06:20	0∘ ত		asc. node	8933 Sep 27 10:02	28° m 24'25	
asc. node	8932 Oct 10 13:05	9° ≙ 04'55			8933 Sep 28 05:20	0∘ ত	
morning set	8932 Oct 17 23:08	23° ≙ 56'41		morning set	8933 Oct 02 10:36	8° ≏ 43'41	
	8932 Oct 20 18:39	0°M					
				superior conj	8933 Oct 09 07:10	23° ≙ 43'41	1°34'25
superior conj	8932 Oct 24 20:57	8°M54'50	1°40'15	minimum elong	8933 Oct 09 05:40	23° ≏ 35'23	1°34'22
minimum elong	8932 Oct 24 20:23	8°M51'48	1°40'23	max. Earth dist.	8933 Oct 10 12:27	26° ≙ 24'51	1.32115 AU
max. Earth dist.	8932 Oct 27 07:09	14° M ∙07'56	1.33047 AU		8933 Oct 12 03:50	0°M	
evening rise	8932 Nov 01 09:29	24°M42'50		evening rise	8933 Oct 16 08:57	8°M57'56	
	8932 Nov 04 01:47	0°⊀			8933 Oct 27 10:29	0°⊀	
desc. node	8932 Nov 13 23:01	17° ∡ ′41′08		desc. node	8933 Oct 31 20:06	7° ∡ 15'07	
	8932 Nov 21 23:52	0°ප		evening max el	8933 Nov 17 17:00	28° ₹ 51'46	27°25'17
evening max el	8932 Dec 05 07:39	16° る 01'30	27°26'01		8933 Nov 18 22:49	0° ප	
retrograde	8932 Dec 18 22:20	23° る 21'19		retrograde	8933 Dec 01 12:35	6° る 07'11	
evening set	8932 Dec 25 21:26	20°る48'08		evening set	8933 Dec 08 14:37	3° る 44'58	
min. Earth dist.	8932 Dec 29 16:25	17° る 25'50	0.64051 AU	min. Earth dist.	8933 Dec 12 07:02	0° る 50'05	0.62159 AU
inferior conj	8933 Jan 01 04:58	14° る 48'17			8933 Dec 13 05:02	30°₹ ⋌ 7	
minimum elong	8933 Jan 01 08:17	14° る 39'38	1°44'25	inferior conj	8933 Dec 15 05:39	28° ₰ 06'30	-2°57'09
asc. node	8933 Jan 06 12:32	10° る 07'29		minimum elong	8933 Dec 15 11:21	27° ₹ 53'16	2°54'48
morning rise	8933 Jan 07 20:53	9° る 26'24		morning rise	8933 Dec 22 10:20	23° ҂ 02'34	
direct	8933 Jan 10 08:02	8° る 55'57		asc. node	8933 Dec 24 09:35	22° ҂ ¹40′26	
morning max el	8933 Jan 16 19:25	12° る 18'02	17°50'31	direct	8933 Dec 24 16:27	22° ҂ 40′04	
	8933 Jan 29 00:50	0° ≈		morning max el	8933 Dec 31 12:17	26° ₰ 08'19	17°49'21
morning set	8933 Feb 02 14:26	7° ≈ 44'37			8934 Jan 03 19:32	0° ප	
desc. node	8933 Feb 09 22:23	20° ≈ 05'31		morning set	8934 Jan 16 08:03	20° る 43'55	
					8934 Jan 21 13:17	0° ≈	
superior conj	8933 Feb 15 15:18	29° ≈ 26'59	-0°40'55				
minimum elong	8933 Feb 15 10:44	29° ≈ 08'30	0°40'07	superior conj	8934 Jan 27 12:39	10° ≈ 19′29	0°02'05
	8933 Feb 15 23:27	0° ∀		minimum elong	8934 Jan 27 12:51	10° ≈ 20′23	0°02'15
max. Earth dist.	8933 Feb 20 22:47	7° ∺ 57'26	1.44835 AU	behind sun begin	8934 Jan 27 04:09	9° ≈ 43'26	
evening rise	8933 Mar 03 10:17	24° 升 16′42		behind sun end	8934 Jan 27 21:34	10° ≈ 57'15	
	8933 Mar 07 04:11	0 ° $\mathbf{\gamma}$		desc. node	8934 Jan 27 19:22	10° ≈ 47'57	
	8933 Mar 28 03:37	0°8		max. Earth dist.	8934 Feb 03 14:45	22°≈04'24	1.43509 AU
evening max el	8933 Mar 31 05:43	_	20°21'43		8934 Feb 08 13:50	0°) €	
asc. node	8933 Apr 04 11:18	6° 8 55'28		evening rise	8934 Feb 11 00:29	3°) (49′29	
retrograde	8933 Apr 08 04:05	8° 8 04'04			8934 Feb 28 14:27	0° Υ	
evening set	8933 Apr 12 02:51	6° 8 34'07		evening max el	8934 Mar 14 02:56	17° Y 07'35	21°32'26
inferior conj	8933 Apr 17 10:27	0° 8 28'34		asc. node	8934 Mar 22 08:25	22° Y 23'00	
minimum elong	8933 Apr 17 09:04		3°10'30	retrograde	8934 Mar 23 02:18	22° Y 25'49	
	8933 Apr 17 18:48	30° ₹ Υ		evening set	8934 Mar 27 11:05	20° Y 40'41	
min. Earth dist.	8933 Apr 18 04:03	29° Y 28′28	0.67805 AU	inferior conj	8934 Apr 01 18:18	14° Y 24'01	2°49'51
morning rise	8933 Apr 22 15:03	24° Y 11'49		minimum elong	8934 Apr 01 16:17		2°49'23
direct	8933 Apr 28 06:24	21° Y 41′07		min. Earth dist.	8934 Apr 01 22:50	14° Y 08′12	0.68356 AU
desc. node	8933 May 08 22:20	27° Y 47'32		morning rise	8934 Apr 06 21:18	8° Y 10′50	
morning max el	8933 May 09 15:07	28° Y 29'16	24°27'00	direct	8934 Apr 11 22:59	5° Y 58'35	
	8933 May 11 01:50	0°8		morning max el	8934 Apr 22 01:07	11° Y 57'23	22°57'10
	8933 Jun 02 03:48	$\Pi^{\circ}0$		desc. node	8934 Apr 25 19:17	16° Y 04'15	
morning set	8933 Jun 14 10:02	20° Ⅱ 11'32			8934 May 06 10:33	0°8	
max. Earth dist.	8933 Jun 18 01:25	26° Ⅱ 39'52	1.37655 AU	morning set	8934 May 26 11:55	0° Ⅱ 48'48	
	8933 Jun 19 21:16	0ಂತ			8934 May 26 00:07	$\Pi^{\circ}0$	
				max. Earth dist.	8934 May 30 21:54	8° Ⅱ 15'57	1.39910 AU
superior conj	8933 Jun 25 00:18	9° 5 40'13	-1°00'01				

superior conj	8934 Jun 07 15:39	21° Ⅱ 59'59	-1°31'02		8935 May 18 11:34	0°Щ	
minimum elong	8934 Jun 07 21:15	22° Ⅱ 25'39	1°30'33				
	8934 Jun 11 22:56	0 \circ \odot		superior conj	8935 May 20 11:09	3° Ⅱ 24'43	-1°56'39
evening rise	8934 Jun 17 09:21	10° © 20'37		minimum elong	8935 May 20 16:53	3° Ⅱ 49'34	1°56'25
asc. node	8934 Jun 18 07:18	12° © 05'17		evening rise	8935 May 31 13:41	23° Ⅱ 16′17	
	8934 Jun 28 11:38	0 $^{\circ}\Omega$			8935 Jun 04 06:36	0 \circ	
evening max el	8934 Jul 03 11:00	6° Ω 13'02	18°30'38	asc. node	8935 Jun 05 04:20	1° © 37'20	
retrograde	8934 Jul 11 04:57	10° Ω 04'59		evening max el	8935 Jun 16 21:02	19° © 03'03	18°08'50
evening set	8934 Jul 13 07:36	9° Ω 48'40		retrograde	8935 Jun 23 17:26	22° © 31'24	
inferior conj	8934 Jul 21 00:12	5° Ω 18'49	0°31'40	evening set	8935 Jun 26 03:49	22° © 05'36	
minimum elong	8934 Jul 21 01:21	5° Ω 16'35	0°31'03	inferior conj	8935 Jul 03 01:54	17° © 15'19	1°49'59
desc. node	8934 Jul 22 18:36	3° Ω 55'16		minimum elong	8935 Jul 03 04:47	17° © 08'44	1°48'52
min. Earth dist.	8934 Jul 24 08:15	2° Ω 43'01	0.57840 AU	min. Earth dist.	8935 Jul 06 09:35	14° © 14'49	0.60040 AU
morning rise	8934 Jul 28 15:34	29° © 59'05		desc. node	8935 Jul 09 15:40	11° © 44'43	
	8934 Jul 28 14:49	30° ₹ 55		morning rise	8935 Jul 10 02:51	11° © 27'00	
direct	8934 Aug 03 13:43	28° © 29'23		direct	8935 Jul 16 14:40	9° 5 26'13	
	8934 Aug 09 16:10	0°N		morning max el	8935 Jul 30 22:43	17° © 20'48	27°44'20
morning max el	8934 Aug 17 22:48	6° Ω 07'38	26°55'24		8935 Aug 10 10:45	$\Omega^{\circ}\Omega$	
,	8934 Sep 04 15:13	0° m/y			8935 Aug 28 06:05	0° m)	
asc. node	8934 Sep 14 06:58	18° m 03'31		morning set	8935 Sep 01 02:06	7° Mp 46'56	
morning set	8934 Sep 16 20:10	23° m/22'06		asc. node	8935 Sep 01 03:54	7° Mp 56'21	1 21 640 444
	8934 Sep 19 21:58	0∘ ত		max. Earth dist.	8935 Sep 07 07:16	21° Mp 11'27	1.31648 AU
superior conj	8934 Sep 23 18:53	8° ჲ 33'34	1°23'02	superior conj	8935 Sep 08 06:18	23° m 18'49	1°06'32
minimum elong	8934 Sep 23 16:47	8° £ 21'56	1°22'48	minimum elong	8935 Sep 08 04:03	23° Mp 06'26	1°06'07
max. Earth dist.	8934 Sep 23 21:40	8° ჲ 49'00	1.31645 AU		8935 Sep 11 06:44	0० ত	
evening rise	8934 Sep 30 14:32	23° ≏ 27'56		evening rise	8935 Sep 15 00:00	8° ഫ 06'33	
	8934 Oct 03 18:12	0° M			8935 Sep 26 05:46	0° M	
desc. node	8934 Oct 18 17:11	26° ™ 10′14		desc. node	8935 Oct 05 14:17	14°Ml11'15	
	8934 Oct 21 10:07	0°⊀		evening max el	8935 Oct 12 16:47	22°M13'51	25°44'09
evening max el	8934 Oct 30 20:42	10° ₹ 58'04	26°51'02	retrograde	8935 Oct 26 14:51	29°M16'03	
retrograde	8934 Nov 13 18:45	18° ∡ °07'17		evening set	8935 Nov 01 18:59	27°M47'04	
evening set	8934 Nov 20 15:24	16° ₰ 06'49		min. Earth dist.	8935 Nov 06 05:20	25°M10'41	0.58019 AU
min. Earth dist.	8934 Nov 24 11:01	13° ≯ 29'02	0.60085 AU	inferior conj	8935 Nov 09 06:44	23°M01'12	
inferior conj	8934 Nov 27 15:21	10° ₹ 53'58		minimum elong	8935 Nov 09 13:20	22°M49'30	5°04'41
minimum elong	8934 Nov 27 22:44	10° ∡ 38′55	4°04'49	morning rise	8935 Nov 17 10:01	18° ™ 40′29	
morning rise	8934 Dec 05 08:34	6° ₰ 10'46		direct	8935 Nov 19 17:24	18°M23'43	
direct	8934 Dec 07 12:55	5° ₹ 52'48		asc. node	8935 Nov 28 03:38	22°M24'03	
asc. node	8934 Dec 11 06:37	6° ₹ 48'15	4000=100	morning max el	8935 Nov 28 06:50	22°M31'43	18°45'37
morning max el	8934 Dec 15 01:20		18°07'08		8935 Dec 04 05:17	0° ⊀ ⁷	
	8934 Dec 28 08:12	0°る		morning set	8935 Dec 14 14:05	18° ∡ 740'42	
morning set	8934 Dec 30 17:34	4° る 27'20			8935 Dec 20 09:27	0°8	
superior conj	8935 Jan 09 10:33	22° පි 21'37	0°38'42	superior conj	8935 Dec 23 04:38	5° る 20'42	1°06'40
minimum elong	8935 Jan 09 13:20	22° る 34'04	0°38'30	minimum elong	8935 Dec 23 07:56	5° る 36'17	1°06'29
	8935 Jan 13 18:50	0° ≈		max. Earth dist.	8935 Dec 30 08:46	18° る 26'38	1.39558 AU
desc. node	8935 Jan 14 16:16	1° ≈ 32'10		desc. node	8936 Jan 01 13:13	22°る15'07	
max. Earth dist.	8935 Jan 17 01:46	5° ≈ 36′03	1.41677 AU	evening rise	8936 Jan 03 08:38	25° る 20'26	
evening rise	8935 Jan 22 05:51	14° ≈ 06′15			8936 Jan 06 03:38	0° ≈	
	8935 Feb 01 11:36	0° ∀			8936 Jan 26 04:45	0° ∀	
	8935 Feb 23 24:00	0 ° Υ		evening max el	8936 Feb 07 09:46	14°) €36'36	24°10'59
evening max el	8935 Feb 24 19:39	0° Y 50′24	22°50'50	retrograde	8936 Feb 18 15:03	21°) 1 1′38	
retrograde	8935 Mar 06 22:25	6° Ƴ 49'59		evening set	8936 Feb 23 23:15	18° ¥ 57'59	
asc. node	8935 Mar 09 05:31	6° Y 23'49		asc. node	8936 Feb 24 02:37	18°) € 50'43	
evening set	8935 Mar 11 18:24	4° Y 50'06		min. Earth dist.	8936 Feb 28 15:49	13°) 34′24	0.68188 AU
	8935 Mar 15 23:44	30° ₹ ₩		inferior conj	8936 Feb 29 11:03	12° ∺ 29′29	1°40'09
inferior conj	8935 Mar 17 03:07	28° ¥ 25'34		minimum elong	8936 Feb 29 09:03		1°39'32
minimum elong	8935 Mar 17 00:53	28°) 33′20	2°18'49	morning rise	8936 Mar 05 18:53	6° ¥ 27'45	
min. Earth dist.	8935 Mar 16 19:32	28° ∺ 51'53	0.68476 AU	direct	8936 Mar 09 17:32	4° ∺ 59'10	
morning rise	8935 Mar 22 07:15	22° ∺ 17'21		morning max el	8936 Mar 17 11:47	9° ∺ 22'22	20°15'10
direct	8935 Mar 26 19:07	20°) €26'40		desc. node	8936 Mar 29 13:05	24°) (43'34	
morning max el	8935 Apr 04 15:00		21°31'01		8936 Apr 02 04:07	0° Υ	
	8935 Apr 08 14:58	0° Υ		morning set	8936 Apr 14 11:44	18° Ƴ 37'21	
desc. node	8935 Apr 12 16:11	5° Y 07'18			8936 Apr 21 18:16	0° 8	1 100 :-
	8935 Apr 29 21:38	0° 8		max. Earth dist.	8936 Apr 24 07:09	4° 8 02'37	1.43852 AU
morning set	8935 May 06 10:30	10° 8 10'55	1 42066 433		9026 A 20 06 20	120045117	2011107
max. Earth dist.	8935 May 12 22:46	20° 8 42'30	1.42066 AU	superior conj	8936 Apr 30 06:39	13° 8 45'17	-2-11'06

minimum elong	8936 Apr 30 08:55 8936 May 09 21:57	13° 8 54'37 0°П	2°11'13	superior conj minimum elong	8937 Apr 10 02:28 8937 Apr 09 21:46	23° Y 05'51 22° Y 47'13	-2°08'09 2°08'04
evening rise	8936 May 13 00:41	5° Ⅲ 23′01			8937 Apr 14 10:16	9° 8	
asc. node	8936 May 22 01:22	20° Ⅱ 47'45		evening rise	8937 Apr 24 14:01	16° 8 32'54	
	8936 May 28 09:13	0°€			8937 May 02 18:20	$\Pi^{\circ}0$	
evening max el	8936 May 30 10:12	2° © 15'33	18°06'21	asc. node	8937 May 08 22:26	9°Ⅱ29'29	
retrograde	8936 Jun 05 20:23	5° © 36'00		evening max el	8937 May 13 23:19	15° Ⅱ 42'18	18°22'23
evening set	8936 Jun 08 14:22	4° © 58'08		retrograde	8937 May 20 09:16	19° Ⅱ 09'09	
inferior conj	8936 Jun 14 21:29	29° Ⅱ 48'18	2°41'33	evening set	8937 May 23 10:38	18° Ⅲ 17'42	
minimum elong	8936 Jun 15 00:10	29° Ⅱ 41'17	2°40'42	inferior conj	8937 May 29 06:51	12° Ⅱ 50′05	3°10'28
	8936 Jun 14 17:00	30° Ŗ Ⅱ		minimum elong	8937 May 29 08:26	12° Ⅱ 45′28	3°10'02
min. Earth dist.	8936 Jun 17 19:22	26° Ⅱ 47'09	0.62284 AU	min. Earth dist.	8937 May 31 14:33	10° Ⅱ 08'39	0.64324 AU
morning rise	8936 Jun 21 08:06	23° Ⅱ 41'57		morning rise	8937 Jun 04 05:11	6° Ⅲ 34'21	
desc. node	8936 Jun 25 12:43	21° Ⅲ 35'59		direct	8937 Jun 10 21:34	3° Ⅱ 52'23	
direct	8936 Jun 28 01:52	21° Ⅱ 15'30		desc. node	8937 Jun 12 09:46	3° Ⅱ 59'50	
morning max el	8936 Jul 12 04:36	29° Ⅱ 17'20	27°55'14	morning max el	8937 Jun 24 14:17	11° Ⅲ 52′01	27°29'38
	8936 Jul 12 21:24	0 \circ \odot			8937 Jul 09 00:08	0 \circ 60	
	8936 Aug 03 09:37	$0^{\circ}\Omega$			8937 Jul 26 21:44	$\mathfrak{O}^{\circ}\mathfrak{O}$	
morning set	8936 Aug 15 02:23	21° Ω 52'36		morning set	8937 Jul 29 18:31	5° Ω 32'02	
asc. node	8936 Aug 18 00:50	27° Ω 57'43		max. Earth dist.	8937 Aug 03 12:43	15° Ω 10'11	1.33079 AU
	8936 Aug 18 23:55	0° m		asc. node	8937 Aug 04 21:47	18° Ω 03'09	
max. Earth dist.	8936 Aug 20 13:34	3°M21'56	1.32122 AU				
				superior conj	8937 Aug 06 20:47	22° Ω 12′29	0°19'38
superior conj	8936 Aug 22 15:36	7° m 53'48	0°45'15	minimum elong	8937 Aug 06 19:50	22° Ω 07′23	0°19'16
minimum elong	8936 Aug 22 13:43	7° m 43'32	0°44'47	•	8937 Aug 10 11:42	0° m p	
evening rise	8936 Aug 29 11:24	22° m/47'52		evening rise	8937 Aug 13 22:49	7° m 25'47	
•	8936 Sep 01 21:52	0∘ ত			8937 Aug 25 19:02	0∘ ⊽	
	8936 Sep 20 14:22	0°M,		evening max el	8937 Sep 04 17:24	12° ≏ 55'26	22°33'16
desc. node	8936 Sep 21 11:25	0°M57'26		desc. node	8937 Sep 08 08:34	16° ♀ 00'40	
evening max el	8936 Sep 23 05:45	2°M44'45	24°13'02	retrograde	8937 Sep 17 18:46	19° ≙ 26'12	
retrograde	8936 Oct 06 22:52	9° M 37'07		evening set	8937 Sep 21 05:37	18° ≏ 59'59	
evening set	8936 Oct 11 21:56	8°M42'57		min. Earth dist.	8937 Sep 29 00:31	15° ≏ 32'31	0.55020 AU
min. Earth dist.	8936 Oct 17 16:29	5° ™ 49'36	0.56227 AU	inferior conj	8937 Sep 30 02:43	14° ≙ 55'22	-5°20'59
inferior conj	8936 Oct 20 01:47	4° M 21′08	-5°37'10	minimum elong	8937 Sep 29 20:32	15° ≙ 04'08	5°20'06
minimum elong	8936 Oct 20 03:18	4° ጤ 18'47	5°36'59	morning rise	8937 Oct 08 13:20	11° ≏ 07'36	
morning rise	8936 Oct 28 10:45	0°M21'34		direct	8937 Oct 11 18:30	10° ≙ 44'06	
direct	8936 Oct 31 02:50	0°M02'51		morning max el	8937 Oct 23 06:35	16° ≏ 07'59	21°09'25
morning max el	8936 Nov 10 01:16	4°M44'33	19°46'27	asc. node	8937 Oct 31 21:37	27° ≏ 00'14	
asc. node	8936 Nov 14 00:38	9° ™ 13'27			8937 Nov 02 17:46	0° M	
	8936 Nov 26 03:25	0° ∡ ¹		morning set	8937 Nov 12 02:33	17° ™ 57'49	
morning set	8936 Nov 27 18:01	3° ∡ 13'54			8937 Nov 17 20:27	0° ∡	
superior conj	8936 Dec 05 13:58	19° 渘 03'19	1°25'51	superior conj	8937 Nov 19 10:09	3° х 15′52	1°36'59
minimum elong	8936 Dec 05 16:35	19° ₰ 16'14	1°25'51	minimum elong	8937 Nov 19 11:33	3° ≯ 23'05	1°37'08
	8936 Dec 11 06:05	0°ರ		max. Earth dist.	8937 Nov 24 00:55	12° ∡ ³36'31	1.35410 AU
max. Earth dist.	8936 Dec 11 15:04	0° る 41'58	1.37392 AU	evening rise	8937 Nov 28 02:41	20° х 27′48	
evening rise	8936 Dec 15 08:41	7° る 30'48			8937 Dec 03 08:46	5°0	
desc. node	8936 Dec 18 10:14	12° る 53'08		desc. node	8937 Dec 05 07:16	3° る 21'02	
	8936 Dec 28 23:52	0° ≈			8937 Dec 22 23:03	0° ≈	
evening max el	8937 Jan 19 23:03	28° ≈ 25′20	25°26'00	evening max el	8938 Jan 02 12:14	12° ≈ 10′21	26°28'56
	8937 Jan 21 15:19	0° ℋ		retrograde	8938 Jan 15 10:26	19° ≈ 26'48	
retrograde	8937 Feb 01 03:18	5°) €26'20		evening set	8938 Jan 21 19:16	16° ≈ 53′21	
evening set	8937 Feb 07 00:09	3°) €00'55		min. Earth dist.	8938 Jan 25 22:14	12° ≈ 39'15	0.66443 AU
asc. node	8937 Feb 09 23:44	29° ≈ 56'34		inferior conj	8938 Jan 27 16:43	10° ≈ 31'25	-0°03'26
	8937 Feb 09 22:34	30° Ŗ ≈		minimum elong	8938 Jan 27 16:48	10° ≈ 31'10	0°03'13
min. Earth dist.	8937 Feb 11 09:27	28° ≈ 12'11	0.67509 AU	transit middle	8938 Jan 27 16:48	10° ≈ 31'10	0°03'13
inferior conj	8937 Feb 12 16:15	26° ≈ 33'03	0°52'25	transit begin	8938 Jan 27 13:57	10° ≈ 39'44	
minimum elong	8937 Feb 12 15:00	26° ≈ 37'04	0°52'04	transit end	8938 Jan 27 19:38	10° ≈ 22'36	
morning rise	8937 Feb 18 06:15	20° ≈ 39'33		asc. node	8938 Jan 27 20:51	10° ≈ 18′58	
direct	8937 Feb 21 16:48	19° ≈ 31'34		morning rise	8938 Feb 02 15:12	4° ≈ 48'12	
morning max el	8937 Feb 28 16:40	23° ≈ 22′29	19°13'34	direct	8938 Feb 05 15:06	3° ≈ 57'51	
	8937 Mar 06 06:47	0°) €		morning max el	8938 Feb 12 04:21	7° ≈ 29'13	18°28'00
greatest brilliancy	8937 Mar 13 19:37	10°) 48′55	-0.7m		8938 Feb 28 02:29	0°) €	
desc. node	8937 Mar 16 10:00	14°) (44′32		desc. node	8938 Mar 03 06:56	5°) €03'02	
morning set	8937 Mar 24 12:25	27°) € 11'00		morning set	8938 Mar 04 10:44	6°) 53′22	
	8937 Mar 26 08:07	$0^{\circ}\Upsilon$			8938 Mar 19 02:48	0 ° Υ	
max. Earth dist.	8937 Apr 06 22:15	18° Ƴ 04'40	1.45058 AU				

superior conj	8938 Mar 20 08:24	1° Y 55'51	-1°44'58	morning set	8939 Feb 13 14:33	18° ≈ 03'43	
minimum elong	8938 Mar 19 22:55	1° Y 18'45	1°44'08	desc. node	8939 Feb 18 03:50	25° ≈ 33'52	
max. Earth dist.	8938 Mar 20 16:56	2° Y 29'12	1.45553 AU		8939 Feb 20 21:04	0° ∀	
evening rise	8938 Apr 05 03:41	26° Ƴ 45'17					
	8938 Apr 07 04:56	9° 8		superior conj	8939 Feb 27 18:50	11°) €05'30	-1°06'17
greatest brilliancy	8938 Apr 14 14:29	11° 8 39'03	-0.8m	minimum elong	8939 Feb 27 11:19	10°) (35′40	1°05'14
asc. node	8938 Apr 25 19:31	27° 8 33'33		max. Earth dist.	8939 Mar 03 12:22	16° ¥ 59′06	1.45303 AU
evening max el	8938 Apr 27 09:45	29° 8 17'03	18°56'12		8939 Mar 11 20:47	0° Y	
	8938 Apr 28 03:28	$\Pi^{\circ}0$		evening rise	8939 Mar 15 21:59	6° Y 15'13	
retrograde	8938 May 04 04:14	3° Ⅱ 03′06		greatest brilliancy	8939 Mar 29 23:13	27° Y 35'40	-0.6m
evening set	8938 May 07 13:12	1° Ⅱ 57'13			8939 Mar 31 14:42	9° 8	
	8938 May 09 20:54	30° ₹ 8		evening max el	8939 Apr 10 15:39	12° 8 55'34	19°46'24
inferior conj	8938 May 13 02:11	26° 8 13'33	3°21'26	asc. node	8939 Apr 12 16:38	14° 8 48'11	
minimum elong	8938 May 13 02:28	26° 8 12'38	3°21'13	retrograde	8939 Apr 18 02:06	17° 8 11'29	
min. Earth dist.	8938 May 14 18:39	24° 8 05'55	0.66012 AU	evening set	8939 Apr 21 19:30	15° 8 50'34	
morning rise	8938 May 18 15:10	19° 8 54'36		inferior conj	8939 Apr 27 04:19	9° 8 52'37	3°18'07
direct	8938 May 25 00:38	17° 8 08'42		minimum elong	8939 Apr 27 03:28	9° 8 55'30	3°17'54
desc. node	8938 May 30 06:48	18° 8 39'45		min. Earth dist.	8939 Apr 28 06:03	8° 8 26'39	0.67280 AU
morning max el	8938 Jun 07 00:58	24° 8 53'11	26°33'50	morning rise	8939 May 02 11:06	3° 8 34'18	
	8938 Jun 11 16:04	0°II		direct	8939 May 08 09:49	0° 8 55'19	
	8938 Jul 02 11:14	0.20 0.20		desc. node	8939 May 17 03:47	5° 8 04'44	25017147
morning set	8938 Jul 12 23:17	18°936'42	1 2 4 5 2 1 4 4 4	morning max el	8939 May 20 10:40	8° 8 08'28	25°16'46
max. Earth dist.	8938 Jul 17 01:31	26°931'20	1.34521 AU		8939 Jun 06 13:10	0° Ⅱ	
	8938 Jul 18 19:21	0 ° Ω		mamina aat	8939 Jun 25 00:16 8939 Jun 25 12:21	0°ഇ 0° 9 54'10	
aumorior comi	8938 Jul 21 19:35	6° Ω 08'38	0.00120	morning set max. Earth dist.	8939 Jun 29 03:37	7° 9 34'11	1.36413 AU
superior conj	8938 Jul 21 19:33 8938 Jul 21 20:08	6°Ω11'28		max. Earth dist.	8939 Jun 29 03:37	/ 293411	1.30413 AU
minimum elong behind sun begin	8938 Jul 21 20:08 8938 Jul 21 15:27	5° Ω 47'17	0 0943	superior aoni	8939 Jul 05 09:02	19° © 34'06	0041122
behind sun end	8938 Jul 22 00:48	6° Ω 35'41		superior conj minimum elong	8939 Jul 05 09:02 8939 Jul 05 11:35	19°5546'41	0°41'09
asc. node	8938 Jul 22 18:45	8° Ω 08'47		asc. node	8939 Jul 09 15:43	28°\$510'08	0 41 09
evening rise	8938 Jul 29 08:16	21° Ω 54'33		asc. node	8939 Jul 10 13:19	0°Ω	
evening rise	8938 Aug 02 07:30	0° M)		evening rise	8939 Jul 13 13:28	6° Ω 06'59	
evening max el	8938 Aug 17 13:03		21°01'09	evening rise	8939 Jul 27 00:53	0° m)	
desc. node	8938 Aug 26 05:42	28° m 49'49	21 01 05	evening max el	8939 Jul 30 21:50	4° m) 31'45	19°46'22
retrograde	8938 Aug 29 07:22	29° mp 13'14		retrograde	8939 Aug 09 23:14	9° mg 29'56	19 1022
evening set	8938 Aug 31 14:02	29° m 00'59		evening set	8939 Aug 11 19:49	9° mp 20'31	
inferior conj	8938 Sep 09 19:14	25° m 04'25	-4°09'10	desc. node	8939 Aug 13 02:50	9° m 03'26	
minimum elong	8938 Sep 09 09:34	25° m 18'05	4°06'29	inferior conj	8939 Aug 20 17:32	5° m) 18'45	-2°19'31
min. Earth dist.	8938 Sep 10 09:17	24° mp 44'31	0.54667 AU	minimum elong	8939 Aug 20 11:12	5° m) 28'32	
morning rise	8938 Sep 18 05:26	21°Mp09'15		min. Earth dist.	8939 Aug 22 20:29	4° m/00'13	0.55276 AU
direct	8938 Sep 22 02:30	20° m/36'58		morning rise	8939 Aug 29 00:34	0° m 56'42	
morning max el	8938 Oct 05 00:31	26° Mp 47'17	22°49'41	direct	8939 Sep 02 16:40	0° Mp 08'32	
	8938 Oct 08 03:00	0 o $\overline{\mathbf{v}}$		morning max el	8939 Sep 16 12:43	7° mg 00'35	24°35'59
asc. node	8938 Oct 18 18:36	15° ≏ 31'19			8939 Oct 03 04:02	0∘ ত	
	8938 Oct 26 05:49	0° M.		asc. node	8939 Oct 05 15:33	4° ≙ 35'07	
morning set	8938 Oct 27 13:35	2°M46'42		morning set	8939 Oct 12 01:20	17° ≏ 35'03	
					8939 Oct 17 18:17	0° M	
superior conj	8938 Nov 03 13:47	17° M 48'37					
minimum elong	8938 Nov 03 13:54	17°M49'13	1°41'06	superior conj	8939 Oct 18 22:13	2°M33'00	
max. Earth dist.	8938 Nov 06 18:07		1.33786 AU	minimum elong	8939 Oct 18 21:13	2°M27'33	1°38'33
	8938 Nov 09 10:11	0° ∡ 7		max. Earth dist.	8939 Oct 20 19:30	6°M39′28	1.32593 AU
evening rise	8938 Nov 11 10:49	4° √ 02'17		evening rise	8939 Oct 26 05:33	18°M04'39	
desc. node	8938 Nov 22 04:19	23° 🖈 33'33			8939 Nov 01 08:20	0° ⊼ ¹	
	8938 Nov 26 03:34	0°る	27012120	desc. node	8939 Nov 09 01:24	13° ₹ 23'51	
evening max el	8938 Dec 16 01:16	25°₹43'30	27°12'28		8939 Nov 20 13:03	0°る	27020142
ratrograda	8938 Dec 21 05:10	0° ≈ 3° ≈ 05'01		evening max el	8939 Nov 28 12:49	8°る53'49 16°る12'22	21-29.43
retrograde	8938 Dec 29 11:45	3°≈05'01 0°≈29'32		retrograde	8939 Dec 12 06:21 8939 Dec 19 07:16	16° 6 12'22	
evening set	8939 Jan 05 06:32 8939 Jan 05 21:17	0°≈29'32 30°Rる		evening set min. Earth dist.	8939 Dec 23 00:48	13° 6 42'33	0.63273 AU
min. Earth dist.	8939 Jan 09 04:00	30 KO 26° 石 48'58	0.65016 AU	inferior conj	8939 Dec 25 17:51	7° る 51'12	
inferior conj	8939 Jan 11 10:08	26 3 48 38 24° る 19'31		minimum elong	8939 Dec 25 17.31 8939 Dec 25 22:11	7°る3112 7°る40'23	
minimum elong	8939 Jan 11 10:08	24° ප 13'59		morning rise	8940 Jan 01 15:06	2°る36'20	2 13 30
asc. node	8939 Jan 14 17:57	24 ර1339 20° ර 54'58	2 05 71	asc. node	8940 Jan 01 15:02	2° පි36'23	
morning rise	8939 Jan 17 19:12	18° る 49'02		direct	8940 Jan 03 23:39	2°る09'46	
direct	8939 Jan 20 10:17	18° る 12'33		morning max el	8940 Jan 10 13:50	5° る 33'45	17°47'42
morning max el	8939 Jan 26 20:23	21° る 35'28	17°59'10	morning set	8940 Jan 26 20:21	0°≈29'35	=
	8939 Feb 02 10:00	0°≈			8940 Jan 26 13:32	0° ≈	

desc. node	8940 Feb 05 00:44	16° ≈ 12'57		superior conj	8941 Jan 19 09:41	2° ≈ 38'32	0°18'35
	0040 E 1 00 01 21	21015126	0022112	minimum elong	8941 Jan 19 11:17	2°≈45'28	0°18'34
superior conj	8940 Feb 08 01:31	21°≈15'36		desc. node	8941 Jan 21 21:39	6°≈56'13	1 42707 ATT
minimum elong	8940 Feb 07 23:11	21°≈05'57	0°21'41	max. Earth dist.	8941 Jan 26 20:52	15°≈14'52	1.42786 AU
D d F	8940 Feb 13 10:30	0°) (10142	1 44246 477	evening rise	8941 Feb 02 04:44	25°≈25'32	
max. Earth dist.	8940 Feb 14 06:25	1°) 19'42	1.44346 AU		8941 Feb 05 03:02	0° ∀ 0° Υ	
evening rise	8940 Feb 23 09:16	15°) (36′37			8941 Feb 25 19:53		22005100
	8940 Mar 03 21:31	0°Υ 26° W 26H2	20050126	evening max el	8941 Mar 06 11:22	10° Υ 17'40 15° Υ 53'11	22°05'09
evening max el	8940 Mar 23 16:09	26° Y 36'12	20°50'36	retrograde	8941 Mar 15 22:01		
1	8940 Mar 27 16:28	0°8		asc. node	8941 Mar 16 10:54	15° Υ 51'43 14° Υ 01'33	
asc. node	8940 Mar 29 13:46	0° と 59'37 1° と 29'58		evening set	8941 Mar 20 11:33	7° Υ 41'18	2020102
retrograde	8940 Apr 01 00:39	1° O 29'58 29° Υ 53'40		inferior conj	8941 Mar 25 19:13	7° Υ '41'18	2°38'02 2°37'29
evening set	8940 Apr 05 03:31			minimum elong	8941 Mar 25 17:03	7° Υ 48'50	
: <i>c</i> :	8940 Apr 05 00:15	30° ₹Ƴ 23° Ƴ 43'19	2002107	min. Earth dist.	8941 Mar 25 18:29	1° Υ 30'18	0.68468 AU
inferior conj	8940 Apr 10 10:44	23° Y 43'19	3°03'07 3°02'45	morning rise	8941 Mar 30 22:24	30° ₹	
minimum elong min. Earth dist.	8940 Apr 10 09:02	23° Y 49'11 23° Y 01'57	0.68099 AU	direct	8941 Apr 02 05:32	30° ₹ ₹ 29° ¥ 27'02	
	8940 Apr 10 22:43	23 γ 01 37 17° Υ 27'57	0.08099 AU	direct	8941 Apr 04 18:14	29 π 2/02 0° Υ	
morning rise	8940 Apr 15 14:19	17° Y 2757 15° Y $04'15$			8941 Apr 07 10:49		22°19'34
direct	8940 Apr 21 00:04		23°48'46	morning max el desc. node	8941 Apr 14 06:56	11° Υ 24'59	22-19-34
morning max el	8940 May 01 19:46	21° \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	23 48 40	desc. node	8941 Apr 19 21:37	0° 8	
desc. node	8940 May 03 00:43				8941 May 03 09:34	_	
	8940 May 09 03:36	0°B 0°B		morning set	8941 May 17 18:50	22° 8 16'01 0° Ⅱ	
	8940 May 29 19:33	12° П 11'29		Darth Jint	8941 May 22 11:10	0°П 0°П46'47	1 400 <i>CE</i> ATT
morning set	8940 Jun 06 04:33 8940 Jun 10 00:04	12° П 11′29 18° П 49'05	1 20/15 ATT	max. Earth dist.	8941 May 22 22:17	0°Щ46′47	1.40865 AU
max. Earth dist.		18°Щ49'05	1.38615 AU		9041 M 20 17-10	1.40 TT 1.012.1	1942/52
	8940 Jun 16 03:41	0್ನನಾ		superior conj	8941 May 30 17:10	14° Ⅱ 18'21	
	0040 I 17 00 42	20520155	1012122	minimum elong	8941 May 30 23:08		1°42'27
superior conj	8940 Jun 17 09:42	2°©20'55			8941 Jun 08 06:13	0°ഇ 3° © 15'13	
minimum elong	8940 Jun 17 14:21		1°13'04	evening rise	8941 Jun 09 23:54		
asc. node	8940 Jun 25 12:42	18°503'43		asc. node	8941 Jun 12 09:43	7°545'07	10010153
evening rise	8940 Jun 26 11:49	19° © 56'50		evening max el	8941 Jun 26 01:36	28°956'45	18°18'52
avanina may al	8940 Jul 01 17:51 8940 Jul 12 19:10	0°Ω 16°Ω25'02	18°52'13	ratra arada	8941 Jun 27 05:18 8941 Jul 03 08:54	0° N 2° N 36'50	
evening max el		20°Ω37'05	16 32 13	retrograde		2° Ω 16'48	
retrograde evening set	8940 Jul 21 06:19 8940 Jul 23 05:24	20° Ω 24'25		evening set	8941 Jul 05 14:50 8941 Jul 09 23:13	30°RS	
desc. node	8940 Jul 29 23:56	20 δ l 24 23		inferior conj	8941 Jul 12 23:09	27° © 37'48	1°08'21
inferior conj	8940 Jul 31 09:25	17 ∂ €04 49 16° Ω 05'55	0°25'35	minimum elong	8941 Jul 12 23:09 8941 Jul 13 01:20	27°537'48 27°533'13	1°07'23
minimum elong	8940 Jul 31 09:23	16° Ω 03'33		min. Earth dist.	8941 Jul 16 08:22	21°93313	0.58752 AU
min. Earth dist.	8940 Aug 03 11:27		0.56735 AU	desc. node	8941 Jul 16 08.22 8941 Jul 16 21:00	24 948 32 24°924'09	0.38/32 AU
morning rise	8940 Aug 08 07:59	13 δ <i>t</i> 3427 11° Ω 07'13	0.30733 AU	morning rise	8941 Jul 20 08:34	24 3 24 09 22° 3 04'42	
direct	8940 Aug 13 20:01	9° Ω 54'43		direct	8941 Jul 26 13:16	20°921'56	
morning max el	8940 Aug 28 02:27	17° Ω 18'08	260111/43	morning max el	8941 Aug 09 22:31	28° © 07'33	27°20'54
morning max ci	8940 Sep 07 14:04	0° m)	20 11 43	morning max ci	8941 Aug 11 18:30	0°Ω	27 20 34
asc. node	8940 Sep 21 12:28	24°Mp03'05			8941 Sep 01 07:12	0°mp	
asc. node	8940 Sep 24 10:02	0° ʊ		asc. node	8941 Sep 08 09:22	13° Mp 48'40	
morning set	8940 Sep 25 12:10	o — 2° ≏ 18'06		morning set	8941 Sep 09 20:26	16° Mp 51'32	
morning set	6540 Бер 25 12.10	2 = 18 00		morning set	8941 Sep 15 21:31	ე∘ ი	
superior conj	8940 Oct 02 09:15	17° ≏ 22'11	1°30'14		0941 бер 13 21.51	• –	
minimum elong	8940 Oct 02 07:27		1°30'07	superior conj	8941 Sep 16 21:03	2° ₽ 10'39	1°16'38
max. Earth dist.	8940 Oct 03 02:56	19° ⊆ 00'03	1.31860 AU	minimum elong	8941 Sep 16 18:51	1° Ω 58'22	1°16'19
	8940 Oct 08 04:09	0°M		max. Earth dist.	8941 Sep 16 13:00	1° - 25'54	1.31589 AU
evening rise	8940 Oct 09 07:54	2°M26'28		evening rise	8941 Sep 23 15:24	17° Ω 00'59	1.51005110
e vennig rise	8940 Oct 24 04:59	0° ∡ 7		evening rise	8941 Sep 30 00:50	0°M	
desc. node	8940 Oct 25 22:29	2° ∡ ¹42'25		desc. node	8941 Oct 12 19:35	21°M16'52	
evening max el	8940 Nov 09 20:20	21° ₹ 27'12	27°15'03		8941 Oct 19 17:56	0° ⊼	
retrograde	8940 Nov 23 17:04	28° ₹ 39'13	_,	evening max el	8941 Oct 22 20:58	3° х 12'17	26°26'17
evening set	8940 Nov 30 17:59	26° ₹ 25'18		retrograde	8941 Nov 05 18:56	10° ≯ 18'13	/
min. Earth dist.	8940 Dec 04 10:58		0.61288 AU	evening set	8941 Nov 12 10:21	8° ₹ ¹29'58	
inferior conj	8940 Dec 07 12:36	20° ₹ 57'33		min. Earth dist.	8941 Nov 16 10:20		0.59191 AU
minimum elong	8940 Dec 07 19:11		3°25'00	inferior conj	8941 Nov 19 14:54	3° ₹ 29'02	
morning rise	8940 Dec 14 22:44	16° ₹ 01'46	3 == 00	minimum elong	8941 Nov 19 22:23	3° ₹ 14'41	
direct	8940 Dec 17 03:41	15° ₹ '41'30			8941 Nov 24 18:57	30°RM	
asc. node	8940 Dec 18 12:06	15° √ 49'21		morning rise	8941 Nov 27 12:51	28°M55'28	
morning max el	8940 Dec 24 05:27	19° ⊀ 15'09	17°54'29	direct	8941 Nov 29 18:01	28°M38'18	
<i>5</i> 22	8941 Jan 01 01:57	0°ප	-		8941 Dec 04 10:33	0° √	
morning set	8941 Jan 08 21:28	13° る 49'58		asc. node	8941 Dec 05 09:06	0° х 36′13	
5	8941 Jan 17 21:19	0° ≈		morning max el	8941 Dec 07 15:46	2° ≯ 30'40	18°20'57
				<i>5</i>			

morning set	8941 Dec 23 12:14 8941 Dec 24 15:54	27°፟፟፟፟፟፟፟፟፟፟፟፟		morning set	8942 Dec 07 12:15	12° ₰ 10'12	
				superior conj	8942 Dec 15 18:04	28° ₹ 26′20	1°15'50
superior conj	8942 Jan 01 16:54	15° る 07'12	0°51'38	minimum elong	8942 Dec 15 21:10	28° ∡ ′41′19	1°15'43
minimum elong	8942 Jan 01 20:06	15° る 21'52	0°51'25		8942 Dec 16 13:33	ರ°0	
desc. node	8942 Jan 08 18:37	27° る 40'29		max. Earth dist.	8942 Dec 22 12:08	11° る 03'08	1.38620 AU
max. Earth dist.	8942 Jan 09 06:24	28° පි 31'01	1.40799 AU	evening rise	8942 Dec 26 06:59	17° る 44'25	
	8942 Jan 10 03:17	0° ≈		desc. node	8942 Dec 26 15:37	18° る 21'40	
evening rise	8942 Jan 13 18:56	6° ≈ 06'05			8943 Jan 02 15:46	0° ≈	
	8942 Jan 29 06:51	0° ∀			8943 Jan 23 16:26	0°)	
evening max el	8942 Feb 17 02:40	24°) €01'27	23°24'57	evening max el	8943 Jan 30 16:04	7°) 48′26	24°43'55
	8942 Feb 25 17:04	$0^{\circ}\mathbf{\Upsilon}$		retrograde	8943 Feb 11 07:56	14° ∺ 36'41	
retrograde	8942 Feb 27 16:50	0° Y 17'04		evening set	8943 Feb 16 21:28	12°) 17′34	
	8942 Mar 01 14:25	30° ₹		asc. node	8943 Feb 18 05:08	11° 米 02′38	
asc. node	8942 Mar 03 08:01	29°) 12'44		min. Earth dist.	8943 Feb 21 10:43	7°) €08'44	0.67942 AU
evening set	8942 Mar 04 18:02	28°) 10′51		inferior conj	8943 Feb 22 10:55	5°) 48′27	1°20'57
min. Earth dist.	8942 Mar 09 15:12	22°) €27'33	0.68410 AU	minimum elong	8943 Feb 22 09:10	5°) 54'15	1°20'24
inferior conj	8942 Mar 10 03:53	21°) (43'59	2°03'49	morning rise	8943 Feb 27 21:05	29° ≈ 49'55	
minimum elong	8942 Mar 10 01:41	21°) (51'32	2°03'10		8943 Feb 27 15:35	30°R≈	
morning rise	8942 Mar 15 09:19	15°) (38'32		direct	8943 Mar 03 14:19	28°≈30'35	
direct	8942 Mar 19 15:24	13°) €57'34	20057100	· i	8943 Mar 07 20:00	0°) {	10047102
morning max el	8942 Mar 27 23:40	18°) 44'51 0° ℃	20°57'09	morning max el	8943 Mar 11 00:01	2°\(\)38'56	19°47'03
1 1	8942 Apr 06 05:53	0°Υ' 0°Υ'43'13		greatest brilliancy	8943 Mar 23 20:19	19° ¥ 20′50	-0.6m
desc. node	8942 Apr 06 18:32			desc. node	8943 Mar 24 15:28	20°) 31′08 0° Υ	
	8942 Apr 26 12:56	0°8 1°809'36			8943 Mar 30 23:26	0° γ 9° Υ 30'36	
morning set max. Earth dist.	8942 Apr 27 06:46	13° 8 37'50	1.42887 AU	morning set max. Earth dist.	8943 Apr 06 04:44	9° γ 30 36 27° Υ 16'14	1.44441 AU
max. Earm dist.	8942 May 05 02:33	13 03/30	1.42007 AU	max. Earth dist.	8943 Apr 17 13:35 8943 Apr 19 06:43	0° 8	1.44441 AU
superior conj	8942 May 12 02:45	25° 8 15'44	2004/32		6943 Apr 19 00.43	0.0	
minimum elong	8942 May 12 02:43 8942 May 12 07:32	25° 8 36'04		superior conj	8943 Apr 22 11:47	5° 8 09'39	-2°12'17
minimum ciong	8942 May 14 21:18	0°Ⅱ	2 04 28	minimum elong	8943 Apr 22 11:47 8943 Apr 22 11:19	5° 8 07'47	
evening rise	8942 May 23 21:29	15° ∏ 51'25		evening rise	8943 May 05 23:49	27° 8 35'13	2 12 23
asc. node	8942 May 30 06:46	27° I 108'41		evening rise	8943 May 07 09:54	0°Ⅱ	
use. Houe	8942 May 31 23:10	0°95		asc. node	8943 May 17 03:50	16°∏08'22	
evening max el	8942 Jun 09 13:20	11° © 56'55	18°05'25	evening max el	8943 May 24 02:53	25° I 16'51	18°10'58
retrograde	8942 Jun 16 04:16	15°\$20'29	10 00 20	retrograde	8943 May 30 11:57	28° I 38'29	10 10 00
evening set	8942 Jun 18 17:48	14°5649'56		evening set	8943 Jun 02 09:00	27° I 55'08	
inferior conj	8942 Jun 25 09:01	9° © 51'02	2°14'57	inferior conj	8943 Jun 08 11:01	22° ∏ 37'49	2°56'15
minimum elong	8942 Jun 25 11:59	9° 5 43'49	2°13'54	minimum elong	8943 Jun 08 13:18	22° ∏ 31'34	2°55'36
min. Earth dist.	8942 Jun 28 13:17	6° 5 47'18	0.61000 AU	min. Earth dist.	8943 Jun 11 03:18	19° ∐ 42'32	0.63186 AU
morning rise	8942 Jul 02 03:40	3°553'26		morning rise	8943 Jun 14 16:04	16° Ⅱ 26′24	
desc. node	8942 Jul 03 18:05	2° 5 57'05		desc. node	8943 Jun 20 15:09	13° Ⅱ 53'37	
direct	8942 Jul 08 18:44	1° 5 40'50		direct	8943 Jun 21 10:06	13° ∏ 51′36	
morning max el	8942 Jul 23 01:29	9° 5 40'16	27°53'46	morning max el	8943 Jul 05 09:21	21° ∏ 54'42	27°48'25
	8942 Aug 07 18:54	0 ° Ω			8943 Jul 12 11:01	0 \circ \odot	
	8942 Aug 24 10:49	0° m y			8943 Jul 31 23:03	0 \circ Ω	
morning set	8942 Aug 25 00:14	1° m 09'04		morning set	8943 Aug 08 21:23	15° Ω 04'42	
asc. node	8942 Aug 26 06:17	3°Mp45'36		asc. node	8943 Aug 13 03:14	23° Ω 49′22	
max. Earth dist.	8942 Aug 30 21:43	13° m 44'44	1.31787 AU	max. Earth dist.	8943 Aug 14 01:13		1.32467 AU
					8943 Aug 16 00:38	0° ™	
superior conj	8942 Sep 01 07:47	16° Mp 52'00	0°58'04				
minimum elong	8942 Sep 01 05:38	16° Mp 40'08	0°57'37	superior conj	8943 Aug 16 15:36	1° Tp 20'58	0°34'53
	8942 Sep 07 07:09	0∘ ʊ		minimum elong	8943 Aug 16 14:03	1° m/ 12'32	0°34'27
evening rise	8942 Sep 08 01:55	1° £ 41'05		evening rise	8943 Aug 23 13:32	16° Mp 21'27	
1 1	8942 Sep 23 06:40	0°M			8943 Aug 30 06:33	0° ⊡	22020126
desc. node	8942 Sep 29 16:43	8°M48'58	25907120	evening max el	8943 Sep 16 00:43	24° Ω 23'52	23°30'36
evening max el retrograde	8942 Oct 04 13:22 8942 Oct 18 10:21	14°M05'52 21°M05'31	25°07'29	desc. node	8943 Sep 16 13:51 8943 Sep 24 00:53	24° £ 55'03 0° IL	
evening set	8942 Oct 18 10:21 8942 Oct 24 03:36	19°M51'09		retrograde	8943 Sep 24 00:33 8943 Sep 29 13:19	1°M09'20	
min. Earth dist.	8942 Oct 24 03:36 8942 Oct 29 01:03	19 11631 09 17°11609'54	0.57200 AU	evening set	8943 Oct 03 20:46	0°M28'47	
inferior conj	8942 Oct 31 21:37	17 IIC09 34 15°M15'53		evening set	8943 Oct 05 20:40 8943 Oct 05 05:52	0 IIC2647 30°Ŗ Ω	
minimum elong	8942 Nov 01 02:38	15°M07'30		min. Earth dist.	8943 Oct 10 10:44	27° £ 22'28	0.55622 AU
morning rise	8942 Nov 09 03:59	11°ML05'04	2 22 00	inferior conj	8943 Oct 10 10:44 8943 Oct 12 08:17	26° £ 15'02	
direct	8942 Nov 11 14:15	10°M47'58		minimum elong	8943 Oct 12 06:31	26° ⊆ 17'40	
morning max el	8942 Nov 20 17:01	15°M09'02	19°08'50	morning rise	8943 Oct 20 18:17	22° Ω 21'54	
asc. node	8942 Nov 22 06:06	16°M44'52		direct	8943 Oct 23 15:19	22° Ω 01'37	
	8942 Dec 01 03:37	0° ∡ 7		morning max el	8943 Nov 03 05:58	27° ≙ 01'01	20°19'11
				<i>5</i>			

	004231 06 01 24	000		T' 4	0044 0 + 02 02 25	20 0 20107	
	8943 Nov 06 01:24	0°M		direct	8944 Oct 03 02:35	2° £ 20'07	21050125
asc. node	8943 Nov 09 03:05	4°M00'09		morning max el	8944 Oct 15 05:49	8° Ω 03'52	21°50'27
morning set	8943 Nov 21 18:22	26°M48'03		asc. node	8944 Oct 26 00:03	22° ≏ 07'31	
	8943 Nov 23 07:43	0° ⊼			8944 Oct 30 09:59	0°M₊	
				morning set	8944 Nov 05 04:13	11°M35'03	
superior conj	8943 Nov 29 08:25	12° ₹ 22'22	1°31'31				
minimum elong	8943 Nov 29 10:32	12° ⋌ ³33′06	1°31'34	superior conj	8944 Nov 12 08:07	26°M44'39	1°39'29
max. Earth dist.	8943 Dec 04 18:54	23° х ⁴04'44	1.36511 AU	minimum elong	8944 Nov 12 08:58	26°M49'05	1°39'39
	8943 Dec 08 11:42	0° ට			8944 Nov 13 21:34	0° ∡ ¹	
evening rise	8943 Dec 08 15:06	0°る15'30		max. Earth dist.	8944 Nov 16 07:52	4° ∡ ¹58'47	1.34671 AU
desc. node	8943 Dec 13 12:38	8° る 55'43		evening rise	8944 Nov 20 15:36	13° ∡ ³30′07	
	8943 Dec 26 20:31	0° ≈		desc. node	8944 Nov 29 09:39	29° ∡ 18′08	
evening max el	8944 Jan 13 05:19	21° ≈ 36′26	25°54'53		8944 Nov 29 19:34	0°ెవ	
retrograde	8944 Jan 25 18:13	28°≈45'42	20 0.00		8944 Dec 20 18:39	o° ≈	
evening set	8944 Jan 31 20:08	26°≈16'34		evening max el	8944 Dec 25 18:48	5°≈18'50	26°50'23
min. Earth dist.	8944 Feb 05 02:41	20 ≈1034 21°≈42'20	0.67091 AU	retrograde	8945 Jan 07 22:46	12° ≈ 37'49	20 30 23
			0.07091 AU	•			
asc. node	8944 Feb 05 02:16	21°≈43'39	0020142	evening set	8945 Jan 14 12:10	10°≈02'59	0.65056.444
inferior conj	8944 Feb 06 14:22	19°≈50'22	0°29'42	min. Earth dist.	8945 Jan 18 12:48	6°≈03'13	0.65876 AU
minimum elong	8944 Feb 06 13:37	19° ≈ 52'44	0°29'34	inferior conj	8945 Jan 20 12:08	3° ≈ 45'33	
morning rise	8944 Feb 12 07:40	14° ≈ 00'42		minimum elong	8945 Jan 20 12:58	3° ≈ 43′08	0°28'52
direct	8944 Feb 15 13:28	13° ≈ 00'36		asc. node	8945 Jan 21 23:22	2° ≈ 04'59	
morning max el	8944 Feb 22 07:56	16° ≈ 42'03	18°52'08		8945 Jan 24 00:27	30°Ŗる	
	8944 Mar 03 12:40	0° ∀		morning rise	8945 Jan 26 14:52	28° る 07'12	
desc. node	8944 Mar 10 12:22	10°) (40′14		direct	8945 Jan 29 10:52	27° る 23'03	
morning set	8944 Mar 15 12:34	18° ∺ 27'49			8945 Feb 04 00:35	0° ≈	
	8944 Mar 22 22:02	$0^{\circ}\mathbf{\Upsilon}$		morning max el	8945 Feb 04 21:44	0° ≈ 49'24	18°13'41
max. Earth dist.	8944 Mar 30 06:16	11° Y 29'03	1.45358 AU	morning set	8945 Feb 23 23:27	28° ≈ 48'33	
					8945 Feb 24 17:11	0° ∀	
superior conj	8944 Mar 31 23:57	14° Ƴ 12'38	-2°00'43	desc. node	8945 Feb 25 09:17	1°) €04'50	
minimum elong	8944 Mar 31 16:30	13° Y 43'22					
mmum trong	8944 Apr 10 22:54	0°8	- 00-20	superior conj	8945 Mar 11 05:22	23°) (04'33	-1°29'55
evening rise	8944 Apr 16 03:01	8° 8 19'47		minimum elong	8945 Mar 10 19:57	22° H 27'37	
evening rise	8944 Apr 29 18:21	0°Ⅱ		max. Earth dist.	8945 Mar 13 02:07	25° H 59'58	1.45542 AU
1-	•	4° Ⅱ 35'40		max. Earth dist.	8945 Mar 15 15:30	23 γ (3938	1.43342 AU
asc. node	8944 May 03 00:56		10024142				
evening max el	8944 May 06 15:14	8° Ⅱ 48'15	18°34'42	evening rise	8945 Mar 27 07:29	18° Y 11'35	
retrograde	8944 May 13 03:43	12° Ⅱ 21'27			8945 Apr 03 21:36	0°8	
evening set	8944 May 16 08:18	11° Ⅲ 23'55		greatest brilliancy	8945 Apr 07 21:13	6° 8 06'55	-0.7m
inferior conj	8944 May 22 01:03	5° Ⅱ 49'32		asc. node	8945 Apr 19 22:02	22° 8 20'34	
minimum elong	8944 May 22 02:05	5° Ⅱ 46'24		evening max el	8945 Apr 19 23:59	22° 8 25'32	19°15'37
min. Earth dist.	8944 May 24 02:22	3° Ⅱ 21′04	0.65099 AU	retrograde	8945 Apr 27 00:12	26° 8 22'39	
	8944 May 27 06:17	30°₹ ႘		evening set	8945 Apr 30 12:45	25° 8 10'13	
morning rise	8944 May 27 19:03	29° 8 32'03		inferior conj	8945 May 05 23:36	19° 8 20'13	3°21'33
direct	8944 Jun 03 09:15	26° 8 46'46		minimum elong	8945 May 05 23:23	19° 8 20'57	3°21'22
desc. node	8944 Jun 06 12:11	27° 8 18'53		min. Earth dist.	8945 May 07 09:38	17° 8 29'59	0.66614 AU
	8944 Jun 11 11:19	$\Pi^{\circ}0$		morning rise	8945 May 11 09:37	13° 8 01'25	
morning max el	8944 Jun 16 19:30	4° Ⅱ 41'20	27°08'57	direct	8945 May 17 14:55	10° 8 17'29	
Č	8944 Jul 06 00:36	0°ಅ		desc. node	8945 May 24 09:12	12° 8 47'26	
morning set	8944 Jul 22 09:06	28°930'18		morning max el	8945 May 30 05:50	17° 8 49'37	26°03'01
	8944 Jul 23 03:34	0° N			8945 Jun 09 10:39	0°П	
max. Earth dist.	8944 Jul 26 20:00		1.33638 AU		8945 Jun 29 00:10	0₀ ©	
asc. node	8944 Jul 30 00:12	13°Ω55'25	1.55056 AC	morning set	8945 Jul 05 07:45	11°9516'15	
asc. nouc	6944 Jul 30 00.12	13 6633 23		max. Earth dist.	8945 Jul 09 04:14		1.35286 AU
:	0044 I-1 20 10-22	150 021102	0007127	max. Earth dist.	6943 Jul 09 04.14	16 33329	1.33280 AU
superior conj	8944 Jul 30 18:23	15° Ω 31'02			0045 7 1 14 10 06		0000154
minimum elong	8944 Jul 30 18:00	15° Ω 29'00	0°07'21	superior conj	8945 Jul 14 13:36	29° © 15'17	
behind sun begin	8944 Jul 30 13:00	15° Ω 02'36		minimum elong	8945 Jul 14 14:57	29° 5 22'08	0°22'52
behind sun end	8944 Jul 30 23:01	15° Ω 55'26			8945 Jul 14 22:23	0 ° Ω	
	8944 Aug 06 13:42	O° My		asc. node	8945 Jul 16 21:10	3° Ω 59'51	
evening rise	8944 Aug 07 00:21	0° ™ 56′09		evening rise	8945 Jul 22 08:18	15° Ω 19′08	
	8944 Aug 23 12:23	0∘ ত			8945 Jul 29 20:23	0° m	
evening max el	8944 Aug 27 14:57	4° £ 38′25	21°52'23	evening max el	8945 Aug 09 15:52	15°Mp21'38	20°26'46
desc. node	8944 Sep 02 10:59	9° ≏ 05'12		desc. node	8945 Aug 20 08:08	20° m 49'28	
retrograde	8944 Sep 09 04:40	10° ჲ 53'09		retrograde	8945 Aug 20 16:57	20° m 49'49	
evening set	8944 Sep 12 01:39	10° £ 34'39		evening set	8945 Aug 22 17:25	20° m 39'37	
inferior conj	8944 Sep 21 04:04	6° £ 35′21	-4°56'52	inferior conj	8945 Aug 31 21:11	16° Mp 42'17	-3°25'18
minimum elong	8944 Sep 20 19:30		4°55'08	minimum elong	8945 Aug 31 12:18	16° mp 55'11	3°22'26
min. Earth dist.		, _0					
	8944 Sep. 20 18:44	6° <u>0</u> 48'25	0.54758 ATT	min Farth dist	8945 Sep. 02 03:57	15° m 57'35	0 54814 ATT
morning rise	8944 Sep 20 18:44 8944 Sep 29 14:39	6° £ 48′25 2° £ 46′59	0.54758 AU	min. Earth dist. morning rise	8945 Sep 02 03:57 8945 Sep 09 06:37	15° m 57'35 12° m 38'10	0.54814 AU

direct	8945 Sep 13 11:32	12°Mp00'14		min. Earth dist.	8946 Aug 14 16:42	25° Ω 27'11	0.55803 AU
morning max el	8945 Sep 26 20:18	18° m 28′29	23°35'12	morning rise	8946 Aug 20 06:12	22° Ω 31′58	
	8945 Oct 06 07:32	0∘ ⊽		direct	8946 Aug 25 06:32	21° Ω 34'45	
asc. node	8945 Oct 12 21:00	10° £ 53'50		morning max el	8946 Sep 08 08:41	28° Ω 41'38	25°19'03
morning set	8945 Oct 20 15:46	26° £ 24'40		. <i>&</i>	8946 Sep 09 16:26	0° m)	
morning sec	8945 Oct 22 08:01	0°M		asc. node	8946 Sep 29 17:56	0° ഫ 09'21	
	0713 001 22 00.01	0 110		use. Houe	8946 Sep 29 16:01	0₀ ರ ೧ <u>−</u> 0>51	
superior conj	8945 Oct 27 14:04	11°M23'17	19/10/38	morning set	8946 Oct 05 03:21	ა <u> </u>	
minimum elong	8945 Oct 27 14:04 8945 Oct 27 13:40	11°M23'17	1°40'47	morning set	8940 OCT 03 03.21	11 = 1200	
•					0046 0 + 11 22 52	260 0 11100	1025120
max. Earth dist.	8945 Oct 30 04:56	17°M00'00	1.33223 AU	superior conj	8946 Oct 11 23:53	26° ₽ 11'09	1°35'39
evening rise	8945 Nov 04 04:38	27°M17'28		minimum elong	8946 Oct 11 22:30	26° ₽ 03'32	1°35'39
	8945 Nov 05 13:27	0° ∡ 7		max. Earth dist.	8946 Oct 13 09:14	29° ≙ 14'13	1.32223 AU
desc. node	8945 Nov 16 06:41	19° ∡ 22′20			8946 Oct 13 17:36	0° M ₊	
	8945 Nov 23 02:09	0° ろ		evening rise	8946 Oct 19 02:56	11°M29'20	
evening max el	8945 Dec 08 07:23	18° る 43'39	27°23'22		8946 Oct 28 18:40	0° ∡ ¹	
retrograde	8945 Dec 21 21:03	26° る 04'07		desc. node	8946 Nov 03 03:45	9° х 00′43	
evening set	8945 Dec 28 19:14	23° る 29'58			8946 Nov 19 01:04	0°ಕ	
min. Earth dist.	8946 Jan 01 14:47	20°る03'10	0.64314 AU	evening max el	8946 Nov 20 17:18	1° る 39'01	27°27'26
inferior conj	8946 Jan 04 01:44	17° る 27'19	-1°35'32	retrograde	8946 Dec 04 12:31	8° そ 55'36	
minimum elong	8946 Jan 04 04:42	17° る 19'28	1°34'03	evening set	8946 Dec 11 14:28	6°₹31′06	
asc. node	8946 Jan 08 20:27	13° る 03'32		min. Earth dist.	8946 Dec 15 07:00	3° る 32'35	0.62455 AU
morning rise	8946 Jan 10 15:51	12° る 03'13		inferior conj	8946 Dec 18 04:19	0° る 48'58	-2°46'19
direct	8946 Jan 13 03:57	11° る 31'19		minimum elong	8946 Dec 18 09:40	0° る 36'17	2°44'03
morning max el	8946 Jan 19 14:44	14° る 53'12	17°52'12		8946 Dec 19 01:10	30°R. ✓	
morning man or	8946 Jan 30 08:04	0°≈	1, 0212	morning rise	8946 Dec 25 07:06	25° ×7 42'10	
morning set	8946 Feb 05 15:00	10° ≈ 33'11		asc. node	8946 Dec 26 17:31	25°×7'22'02	
desc. node	8946 Feb 12 06:09	21°≈39'35		direct	8946 Dec 27 13:41	25° × 18'47	
desc. node	8946 Feb 17 08:20	0° \		morning max el	8947 Jan 03 07:52	28° x 45'42	17°48'18
	8940 FCU 17 08.20	0 /		morning max er		28 メ ・43 42	1/ 4010
	0046 E 1 10 22 50	201/26102	00.47127		8947 Jan 04 12:03		
superior conj	8946 Feb 18 22:58	2°\(\frac{1}{3}\)36'03		morning set	8947 Jan 19 05:43	23° る 24'02	
minimum elong	8946 Feb 18 17:36	2° 			8947 Jan 22 23:19	0° ≈	
max. Earth dist.	8946 Feb 23 21:34	10° ∺ 28'56	1.44977 AU	desc. node	8947 Jan 30 03:02	12° ≈ 20'46	
evening rise	8946 Mar 06 20:54	27°) 33′04					
	8946 Mar 08 11:15	$0^{\circ}\Upsilon$		superior conj	8947 Jan 30 16:25	13° ≈ 17'13	
greatest brilliancy	8946 Mar 21 16:40	19° Ƴ 51'21	-0.6m	minimum elong	8947 Jan 30 16:02	13° ≈ 15'34	0°03'54
	8946 Mar 28 23:29	9° 8		behind sun begin	8947 Jan 30 07:19	12° ≈ 38'49	
evening max el	8946 Apr 03 03:34	6° 8 04'46	20°12'09	behind sun end	8947 Jan 31 00:45	13° ≈ 52'15	
asc. node	8946 Apr 06 19:09	9° 8 10'18		max. Earth dist.	8947 Feb 06 13:55	24° ≈ 39′02	1.43741 AU
retrograde	8946 Apr 10 22:42	10° 8 36'13			8947 Feb 09 22:13	0° ∀	
evening set	8946 Apr 14 20:02	9° 8 08'36		evening rise	8947 Feb 14 09:45	7° ₩ 01'15	
inferior conj	8946 Apr 20 03:51	3° 8 04'51	3°13'05		8947 Mar 01 18:17	0 ° Υ	
minimum elong	8946 Apr 20 02:36	3° 8 09'07	3°12'49	evening max el	8947 Mar 17 01:33	19° Ƴ 44'55	21°21'23
min. Earth dist.	8946 Apr 20 23:30	1° 8 58'01	0.67678 AU	asc. node	8947 Mar 24 16:17	24° Ƴ 49'41	
	8946 Apr 22 11:17	30°RƳ		retrograde	8947 Mar 25 21:03	24° Y ′56'57	
morning rise	8946 Apr 25 08:55	26° Ƴ 47'35		evening set	8947 Mar 30 04:14	23° Y 14'10	
direct	8946 May 01 02:11	24°Υ14'34		inferior conj	8947 Apr 04 11:23	16° Υ 59'04	2°53'41
desc. node	8946 May 11 06:10	29° Υ 48'38		minimum elong	8947 Apr 04 09:26	17° Υ 05'49	2°53'14
desc. Hode	8946 May 11 10:57	0°8		min. Earth dist.	8947 Apr 04 17:50	16° Υ 36'35	0.68298 AU
morning max el	8946 May 12 15:21	1° 8 09'50	24940113	morning rise	8947 Apr 09 14:26	10° Υ 45'10	0.00270 AC
morning max ci	8946 Jun 03 10:03	0° Ⅱ	24 40 13	•		8° Υ 29'47	
				direct	8947 Apr 14 18:12	8 1 2947 14° Υ 36'29	22910120
morning set	8946 Jun 17 12:43	23° I I10'51	1 27222 411	morning max el	8947 Apr 25 00:59		23°10'30
max. Earth dist.	8946 Jun 21 03:35		1.37323 AU	desc. node	8947 Apr 28 03:05	17° Y 56'47	
	8946 Jun 21 07:59	0			8947 May 07 13:12	0°8	
					8947 May 27 08:42	$\Pi^{\circ}0$	
superior conj	8946 Jun 27 22:09	12° © 26'04		morning set	8947 May 29 18:27	3° Ⅱ 58'50	
minimum elong	8946 Jun 28 01:36	12° © 42'53	0°54'45	max. Earth dist.	8947 Jun 02 23:38	11° Ⅱ 08'53	1.39572 AU
asc. node	8946 Jul 03 18:09	23° © 59'00					
evening rise	8946 Jul 06 11:01	29° © 23'58		superior conj	8947 Jun 10 16:02	24° Ⅱ 53′08	-1°26'34
	8946 Jul 06 18:15	$0^{\circ}\Omega$		minimum elong	8947 Jun 10 21:25	25° Ⅱ 18′02	1°26'04
evening max el	8946 Jul 23 06:16	26° Ω 49'57	19°20'42		8947 Jun 13 09:52	0ංම	
	8946 Jul 27 08:05	0° m		evening rise	8947 Jun 20 05:29	13° © 01'42	
retrograde	8946 Aug 01 14:44	1° m 27'45		asc. node	8947 Jun 20 15:08	13°9548'06	
evening set	8946 Aug 03 11:13	1° m) 17'37			8947 Jun 29 13:12	$0^{\circ}\Omega$	
desc. node	8946 Aug 07 05:15	0° m, 01'38		evening max el	8947 Jul 06 07:59	9° Ω 01'13	18°35'36
	8946 Aug 07 06:37	30°RΩ		retrograde	8947 Jul 14 06:02	12° Ω 57'46	-
inferior conj	8946 Aug 12 02:06	27° Ω 09'25	-1°29'56	evening set	8947 Jul 16 07:40	12°Ω42'32	
minimum elong	8946 Aug 11 22:05	27° Ω 16'00		inferior conj	8947 Jul 24 03:15	8°Ω15'50	0°17'24
minimum ciong	07 10 11ug 11 22.03	2, 061000	. 2031	micro conj	57 17 July 27 UJ.1J	0 0610 00	0 1/47

minimum elong	8947 Jul 24 03:54	8° Ω 14'36	0°16'57	min. Earth dist.	8948 Jul 08 10:20	17° © 07'39	0.59704 AU
desc. node	8947 Jul 25 02:23	7° Ω 31'21		desc. node	8948 Jul 10 23:28	15° 5 09'04	
min. Earth dist.	8947 Jul 27 10:17	5° Ω 45'41	0.57541 AU	morning rise	8948 Jul 12 05:06	14° © 21'15	
morning rise	8947 Jul 31 20:36	3° Ω 01′20		direct	8948 Jul 18 15:22	12° 5 25'00	
direct	8947 Aug 06 16:22	1° Ω 36′05		morning max el	8948 Aug 01 23:43	20° © 17'13	27°39'28
morning max el	8947 Aug 21 00:54	9° Ω 10'57	26°44'59		8948 Aug 10 07:56	0 ° Ω	
	8947 Sep 05 20:28	0° m ∕			8948 Aug 28 17:03	0° m ∕	
asc. node	8947 Sep 16 14:51	19° m 45'36		asc. node	8948 Sep 02 11:46	9° ™ 36'36	
morning set	8947 Sep 19 13:18	25° m 51'49		morning set	8948 Sep 02 19:55	10° m 19'05	
	8947 Sep 21 11:32	0∘ ⊽		max. Earth dist.	8948 Sep 09 03:55	24° Mp 01'16	1.31619 AU
superior conj	8947 Sep 26 11:30		1°25'06	superior conj	8948 Sep 09 23:05	25° Mp 47'31	1°09'22
minimum elong	8947 Sep 26 09:28	10° ≏ 49'52	1°24'54	minimum elong	8948 Sep 09 20:51	25° m 35'04	1°08'58
max. Earth dist.	8947 Sep 26 18:01	11° ≏ 37'21	1.31687 AU		8948 Sep 11 20:36	0∘ ⊽	
evening rise	8947 Oct 03 07:46	25° ≏ 57'32		evening rise	8948 Sep 16 16:50	10° ≏ 35'32	
	8947 Oct 05 06:16	0° ™			8948 Sep 26 12:47	0° ™	
desc. node	8947 Oct 21 00:53	28°M02'34		desc. node	8948 Oct 06 22:02	16°M13'12	
	8947 Oct 22 09:00	0° ∡ 7		evening max el	8948 Oct 14 19:32	25° ™ 16'51	25°55'58
evening max el	8947 Nov 02 22:08	13° ⋌ '52'59	26°58'22	_	8948 Oct 20 22:39	0° ∡ 7	
retrograde	8947 Nov 16 20:03	21° ∡ ′02'59 −		retrograde	8948 Oct 28 17:36	2° ∡ 19'45 −	
evening set	8947 Nov 23 18:02	18° ∡ ′58'50 −		evening set	8948 Nov 04 01:05	0° ∡ ¹45'40	
min. Earth dist.	8947 Nov 27 12:42	16° √ 19'12 −	0.60396 AU		8948 Nov 05 11:41	30°RM	
inferior conj	8947 Nov 30 16:31	13° ∡ ′41′58		min. Earth dist.	8948 Nov 08 08:17	28° ™ 10′20	0.58315 AU
minimum elong	8947 Nov 30 23:45		3°54'37	inferior conj	8948 Nov 11 10:51	25°M56′06	
morning rise	8947 Dec 08 07:57	8° ⋌ ¹55'23		minimum elong	8948 Nov 11 17:49	25° ™ 43'29	4°56'56
direct	8947 Dec 10 12:17	8° ∡ ¹36'57 −		morning rise	8948 Nov 19 12:52	21°M31'58	
asc. node	8947 Dec 13 14:32	9° ⋌ 15'49 –		direct	8948 Nov 21 19:32	21°M15'09	
morning max el	8947 Dec 17 21:44	12° ∡ 17'49	18°03'12	asc. node	8948 Nov 29 11:33	24° ™ 39'21	
	8947 Dec 29 17:37	0°る		morning max el	8948 Nov 30 04:36	25° ™ 18′50	18°38'33
morning set	8948 Jan 02 13:18	7° る 02'29			8948 Dec 04 04:27	0° ∡ ¹	
		—		morning set	8948 Dec 16 08:30	21° ∡ 12'42	
superior conj	8948 Jan 12 10:58	25°₹09'59	0°33'40		8948 Dec 20 21:10	0°ಕ	
minimum elong	8948 Jan 12 13:30	25° ට 21'17	0°33'31				
	8948 Jan 15 05:01	0° ≈		superior conj	8948 Dec 25 02:27	8° ろ 02'00	1°02'59
desc. node	8948 Jan 16 23:59	3°≈05'10		minimum elong	8948 Dec 25 05:46	8° る 17'32	1°02'47
max. Earth dist.	8948 Jan 20 01:49	8°≈17'15	1.41977 AU	max. Earth dist.	8949 Jan 01 09:39	21°る15'35	1.39885 AU
evening rise	8948 Jan 25 12:25	17°≈10'55		desc. node	8949 Jan 02 20:57	23°る48'45	
	8948 Feb 02 18:10	0°) €		evening rise	8949 Jan 05 12:00	28° පි 16'53	
	8948 Feb 24 14:10	0°Υ 2° 2025 112	22220155		8949 Jan 06 12:41	0° ≈	
evening max el	8948 Feb 27 18:55	3° Υ 27'43	22°38'55	·	8949 Jan 26 06:47	0° ∀	22050107
retrograde	8948 Mar 08 17:30	9° Y 21'06		evening max el	8949 Feb 09 09:22	17°) 13'49	23°59'06
asc. node	8948 Mar 10 13:25	9° Υ ′04'25		retrograde	8949 Feb 20 10:44	23°) (43'48	
evening set	8948 Mar 13 11:47	7°Υ23'23	202.412.0	asc. node	8949 Feb 25 10:33	21°) (45'38	
inferior conj	8948 Mar 18 20:11	0° Υ 59'57		evening set	8949 Feb 25 17:08	21°) 32'01	0.60264.411
minimum elong	8948 Mar 18 17:57	1° Υ 07'42	2°24'02	min. Earth dist.	8949 Mar 02 10:51	16°) €03'24	0.68264 AU
min. Earth dist.	8948 Mar 18 14:24	1° Υ 20'05	0.68489 AU	inferior conj	8949 Mar 03 04:23	15° ¥ 03'52	1°46'40
	8948 Mar 19 13:30	30° ₹ ₩		minimum elong	8949 Mar 03 02:19	15°) 10'55	1°46'02
morning rise direct	8948 Mar 23 23:59 8948 Mar 28 13:56	24°) 50'56 22°) 56'51		morning rise direct	8949 Mar 08 11:32	9° 米 01'12 7° 米 29'25	
			21942117		8949 Mar 12 12:07		20025125
morning max el	8948 Apr 06 13:59	28° ¥ 11'29 0° Ƴ	21-43-10	morning max el desc. node	8949 Mar 20 09:42	11° ¥ 58'16	20°25'35
daga mada	8948 Apr 08 07:18	6° Υ 53'35		desc. node	8949 Mar 31 20:53	26° ¥ 25'30 0° Y	
desc. node	8948 Apr 13 23:59	0. R		marning got	8949 Apr 03 08:41	0° γ 22° Υ 03'05	
	8948 Apr 30 04:20			morning set	8949 Apr 18 00:25	0° 8	
morning set	8948 May 08 20:58	13° 8 31'11 23° 8 27'12	1.41766 AU	may Earth dist	8949 Apr 23 02:27	6° 8 40'56	1.43622 AU
max. Earth dist.	8948 May 14 23:35	23 O 27 12 0° Ⅱ	1.41/00 AU	max. Earth dist.	8949 Apr 27 07:07	0 04030	1.43022 AU
	8948 May 18 21:06	υщ		gunariar agni	2040 May 02 12:57	16° 8 56'40	2°00'54
superior con:	2042 May 22 14:45	6° Ⅱ 26'28	1053121	superior conj	8949 May 03 13:57 8949 May 03 17:02	17° 8 09'25	
superior conj	8948 May 22 14:45	6°Щ26'28 6°Щ52'16		minimum elong	8949 May 11 07:11	1/° O 09'25 0°耳	2 U7 J7
minimum elong	8948 May 22 20:39	6°Щ32′16 26°Щ03′16	1 33 03	avaning rise		0°Щ 8°Щ18'01	
evening rise	8948 Jun 02 11:56 8948 Jun 04 15:34	26°Щ03°16		evening rise asc. node	8949 May 16 01:50 8949 May 24 09:16	8°Щ18'01 22°Щ37'00	
asa nada	8948 Jun 04 13:34 8948 Jun 06 12:11			asc. nout	8949 May 24 09:16 8949 May 29 04:08	22° П 3700	
asc. node	8948 Jun 06 12:11 8948 Jun 18 17:14	3°5522'42	18°10'51	avaning may al	8949 May 29 04:08 8949 Jun 02 06:08		18005122
evening max el	8948 Jun 18 17:14 8948 Jun 25 16:01	21°5946'44 25°5917'31	10 1031	evening max el retrograde		4°956'20	18°05'32
retrograde	0.740 HH / 1 10 H	ا (: / افغ دے		TEHORIAGE	8949 Jun 08 17:12	8° © 17'11	
evening set				•		7003/1115	
inforior coni	8948 Jun 28 01:18	24° © 53'15	1020155	evening set	8949 Jun 11 10:04	7°541'15	2025116
inferior conj minimum elong			1°39'55	•		7°\$41'15 2°\$34'06 2°\$26'56	2°35'16

	8949 Jun 20 07:19	30°R Ⅱ		inferior conj	8950 Jun 01 02:41	15° Ⅲ 32'10	3°07'18
min. Earth dist.	8949 Jun 20 18:48	29° ∏ 31'40	0.61951 AU	minimum elong	8950 Jun 01 04:28	15° II 27'03	3°06'49
morning rise	8949 Jun 24 07:46	26° I I29'43	0.61931 AU	min. Earth dist.	8950 Jun 03 12:39	13 П 2703 12° П 46'37	0.64035 AU
desc. node	8949 Jun 27 20:32	20 H 2943 24° H 38'28		morning rise	8950 Jun 07 02:39	9° Ⅱ 17'14	0.04033 AU
direct	8949 Jul	24° I I06'44		direct		9 П 1/14 6° П 36'46	
direct		24° Д 0644 0° ©			8950 Jun 13 19:35	6° Д 36'46 6° Д 39'31	
	8949 Jul 12 22:45		2795(110	desc. node	8950 Jun 14 17:35		27925127
morning max el	8949 Jul 15 04:59	2°908'07	2/°5610	morning max el	8950 Jun 27 14:20	14° Ⅱ 38'02	2/°35'36
	8949 Aug 04 16:30	0°N			8950 Jul 10 01:53	0° ©	
morning set	8949 Aug 17 21:14	24° Ω 28'37			8950 Jul 28 08:19	$0^{\circ}\Omega$	
asc. node	8949 Aug 20 08:44	29° Ω 37'24		morning set	8950 Aug 01 14:44	8° Ω 12'25	
	8949 Aug 20 13:01	0° т р		max. Earth dist.	8950 Aug 06 11:28	18° Ω 07'03	1.32899 AU
max. Earth dist.	8949 Aug 23 11:08	6° Mp 15′28	1.32018 AU	asc. node	8950 Aug 07 05:39	19° Ω 42'31	
	00404 25 00 51	1007 0450	004040		0050 4 00 14 45	240 0 46110	0000110
superior conj	8949 Aug 25 08:51	10° m 24'52	0°48'48	superior conj	8950 Aug 09 14:45	24°Ω46'10	0°23'48
minimum elong	8949 Aug 25 06:53	10° Mp 14'05	0°48'20	minimum elong	8950 Aug 09 13:37	24° Ω 40'05	0°23'24
evening rise	8949 Sep 01 04:06	25° m 17'21			8950 Aug 12 00:58	0° m)	
	8949 Sep 03 09:33	0∘ ⊽		evening rise	8950 Aug 16 15:34	9° m 55'51	
	8949 Sep 21 02:00	0°M₊			8950 Aug 26 22:52	0∘ ⊽	
desc. node	8949 Sep 23 19:11	3°M12'52		evening max el	8950 Sep 07 20:27	16° ≏ 04'42	22°48'03
evening max el	8949 Sep 26 09:17	5°M53'33	24°27'34	desc. node	8950 Sep 10 16:21	18° ≏ 33'47	
retrograde	8949 Oct 10 03:32	12°M48'01		retrograde	8950 Sep 21 01:21	22° ≏ 40'14	
evening set	8949 Oct 15 07:47	11° M 48'37		evening set	8950 Sep 24 17:24	22° ≏ 10'42	
min. Earth dist.	8949 Oct 20 20:10	8°M59'04	0.56466 AU	min. Earth dist.	8950 Oct 02 04:31	18° ≏ 49'09	0.55149 AU
inferior conj	8949 Oct 23 08:57	7°M23'33	-5°35'06	inferior conj	8950 Oct 03 12:11	18° ≙ 03'51	-5°27'05
minimum elong	8949 Oct 23 11:32	7° ™ 19'29	5°34'48	minimum elong	8950 Oct 03 07:04	18° ≙ 11'10	5°26'29
morning rise	8949 Oct 31 17:25	3°M21'21		morning rise	8950 Oct 11 22:43	14° ≏ 15'17	
direct	8949 Nov 03 07:53	3°M03'08		direct	8950 Oct 15 01:34	13° ≏ 52'48	
morning max el	8949 Nov 13 00:55	7°M38'58	19°35'57	morning max el	8950 Oct 26 08:15	19° ≏ 10'09	20°55'43
asc. node	8949 Nov 16 08:32	11° M .18'48		asc. node	8950 Nov 03 05:31	28° ♀ 57'49	
	8949 Nov 27 14:23	0° ∡ ¹			8950 Nov 03 21:30	0° M ₊	
morning set	8949 Nov 30 11:31	5° ∡¹ 43'35		morning set	8950 Nov 14 19:28	20°M26'11	
-				-	8950 Nov 19 09:27	0° ∡ 7	
superior conj	8949 Dec 08 09:49	21° ₹ ³39'12	1°23'28				
minimum elong	8949 Dec 08 12:35	21° ₹ 52'46	1°23'25	superior conj	8950 Nov 22 04:35	5° ∡ ¹47'56	1°35'46
Č	8949 Dec 12 17:38	0°ರ		minimum elong	8950 Nov 22 06:11	5° ∡ ¹56'07	1°35'53
max. Earth dist.	8949 Dec 14 15:44	3° ට 35'17	1.37708 AU	max. Earth dist.	8950 Nov 27 00:28	15° ∡ 30′23	1.35686 AU
evening rise	8949 Dec 18 09:02	10° る 19'14		evening rise	8950 Dec 01 00:33	23° ∡ ¹09'51	
desc. node	8949 Dec 20 17:58	14°る27'53		Ü	8950 Dec 04 18:41	0°ಕ	
	8949 Dec 30 06:19	0° ≈		desc. node	8950 Dec 07 15:00	4° る 57'40	
	8950 Jan 21 21:51	0°) €			8950 Dec 23 23:14	0° ≈	
evening max el	8950 Jan 22 22:35	1°) €02'06	25°15'21	evening max el	8951 Jan 05 11:44	14° ≈ 48'02	26°20'39
retrograde	8950 Feb 03 23:44	8°) (00'08	20 10 21	retrograde	8951 Jan 18 07:47	22° ≈ 03'18	20 20 20
evening set	8950 Feb 09 18:44	5° ₩ 36'08		evening set	8951 Jan 24 14:52	19° ≈ 30'46	
asc. node	8950 Feb 12 07:40	3° ₩ 02'03		min. Earth dist.	8951 Jan 28 18:41	15°≈11'28	0.66621 AU
min. Earth dist.	8950 Feb 14 05:00	0°) 42′18	0.67638 AU	inferior conj	8951 Jan 30 11:26	13° ≈ 07'25	0°05'32
mm. Latin dist.	8950 Feb 14 18:05	30°R≈	0.07030710	minimum elong	8951 Jan 30 11:16	13°≈07'53	0°05'40
inferior conj	8950 Feb 15 10:08	29°≈07'46	1°00'11	transit middle	8951 Jan 30 11:16	13° ≈ 07'53	0°05'40
minimum elong	8950 Feb 15 08:44	29°≈12'19	0°59'48	transit begin	8951 Jan 30 08:35	13°≈16'07	0 03 40
morning rise	8950 Feb 20 23:04	23°≈13'00	0 37 40	transit end	8951 Jan 30 13:58	13°≈59'40	
direct	8950 Feb 24 11:18	23°≈02'13		asc. node	8951 Jan 30 04:46	12 ≈3740 13°≈27'48	
morning max el	8950 Mar 03 13:28	25°≈57'10	19°21'43	morning rise	8951 Feb 05 08:30	7°≈22'31	
morning max ci	8950 Mar 07 03:56	25 ≈ 37 10 0° H	19 21 43	direct	8951 Feb 08 09:50	6°≈29'49	
grantagt brillianav		12° H 57'12	-0.7m				18°33'42
greatest brilliancy	8950 Mar 16 10:49	12 X 3/12 16° X 23'12	-0.7111	morning max el	8951 Feb 15 00:15	10°≈03'31 0°) €	16 33 42
desc. node	8950 Mar 18 17:47			1 1	8951 Mar 01 09:05		
morning set	8950 Mar 27 23:35	0° Υ 31'17 0° Υ		desc. node	8951 Mar 05 14:41	6°) €39'39	
Fauth 4:-4	8950 Mar 27 15:29	0° γ 20° Υ 37'41	1 44021 ATT	morning set	8951 Mar 07 17:48	10°) 01'25 0° Υ	
max. Earth dist.	8950 Apr 09 21:18	20 1 3 / 41	1.44921 AU		8951 Mar 20 10:49	U- Y	
aumani ·	9050 A 12 12 57	2600025105	2000/5/4	aumoni '	9051 M 22 20 00	500017127	1940/42
superior conj	8950 Apr 13 12:57	26°Y25'05		superior conj	8951 Mar 23 20:00	5°Υ17'37	
minimum elong	8950 Apr 13 09:21	26° Y 10'45	2-09-54	minimum elong	8951 Mar 23 10:50	4°Υ41'42	
	8950 Apr 15 18:44	0° 8		max. Earth dist.	8951 Mar 23 15:25	4°Υ59'38	1.45525 AU
evening rise	8950 Apr 27 18:37	19° 8 36'56		evening rise	8951 Apr 08 11:47	29° ℃ 57'52	
	8950 May 04 00:43	0°II		,	8951 Apr 08 12:19	0° 8	0.0
asc. node	8950 May 11 06:20	11° Ⅱ 23'48	10010:	greatest brilliancy	8951 Apr 17 03:18	13° 8 41'10	-0.8m
evening max el	8950 May 16 19:23	18° Ⅱ 21'14	18°18'51	asc. node	8951 Apr 28 03:26	29° 8 34'47	
retrograde	8950 May 23 04:54	21° II 46'29			8951 Apr 28 11:58	0°П	1005000
evening set	8950 May 26 05:06	20° Ⅱ 57'13		evening max el	8951 Apr 30 06:23	1° Ⅱ 55'41	18°50'03

retrograde	8951 May 06 23:06	5° ∏ 38′04			8952 Mar 12 04:24	0° Υ	
evening set	8951 May 10 06:53	3 П 3804 4° П 34'26		evening rise	8952 Mar 18 08:20	9° Υ 32'29	
evening set	8951 May 14 23:09	30°R ႘		evening rise	8952 Mar 31 18:06	0° 8	
inferior conj	8951 May 15 20:44	28° 8 53'12	2020142	greatest brilliancy	8952 Mar 31 19:58	0° 8 06'54	-0.7m
minimum elong	8951 May 15 20:44 8951 May 15 21:13	28° 8 51'42	3°20'28	•		15° 8 34'21	19°37'57
min. Earth dist.	8951 May 17 15:33	26° 8 39'43	0.65790 AU	evening max el asc. node	8952 Apr 12 13:06	15 8 58'06	19 3/3/
	•	20 8 3943	0.03790 AU		8952 Apr 14 00:33	_	
morning rise	8951 May 21 10:56	_		retrograde	8952 Apr 19 20:39	19° 8 44'59	
direct	8951 May 27 21:45	19° 8 48'13		evening set	8952 Apr 23 12:46	18° 8 26'18	2010122
desc. node	8951 Jun 01 14:35	21° 8 01'07	26042120	inferior conj	8952 Apr 28 22:02	12° 8 30'27	
morning max el	8951 Jun 10 00:55	27° 8 36'04	26°43'38	minimum elong	8952 Apr 28 21:20	12° 8 32'47	3°19'11
	8951 Jun 12 07:14	0° I I		min. Earth dist.	8952 Apr 30 01:54	10° 8 58'01	0.67126 AU
	8951 Jul 03 18:40	0°©		morning rise	8952 May 04 05:34	6° 8 11'58	
morning set	8951 Jul 15 21:22	21°522'39	1.04056.433	direct	8952 May 10 06:08	3° 8 31'20	
max. Earth dist.	8951 Jul 20 01:42	29° © 30'59	1.34276 AU	desc. node	8952 May 18 11:32	7° 8 12'25	25020105
	8951 Jul 20 07:31	0 \circ Ω		morning max el	8952 May 22 10:43	10° 8 49'46	25°29'07
					8952 Jun 06 16:38	0° I	
superior conj	8951 Jul 24 14:37	8° Ω 45'55			8952 Jun 25 10:08	0.20	
minimum elong	8951 Jul 24 14:54	8° Ω 47'24	0°05'11	morning set	8952 Jun 27 13:03	3°5548'01	
behind sun begin	8951 Jul 24 09:24	8° Ω 18'51		max. Earth dist.	8952 Jul 01 05:10	10° © 35'08	1.36113 AU
behind sun end	8951 Jul 24 20:23	9° Ω 15'59				_	
asc. node	8951 Jul 25 02:37	9° Ω 48'24		superior conj	8952 Jul 07 05:41	22° © 16'46	
evening rise	8951 Aug 01 01:24	24° Ω 25'57		minimum elong	8952 Jul 07 07:54	22° © 27'50	0°36'18
	8951 Aug 03 18:10	0° m y		asc. node	8952 Jul 10 23:36	29° © 50'57	
evening max el	8951 Aug 20 14:25	26° Mp 27′50	21°13'57		8952 Jul 11 01:22	$0^{\circ}\Omega$	
	8951 Aug 24 22:58	0∘ ⊽		evening rise	8952 Jul 15 07:23	8° Ω 41'28	
desc. node	8951 Aug 28 13:27	1° ≏ 44'38			8952 Jul 26 21:56	0° ™	
retrograde	8951 Sep 01 14:15	2° ₽ 24'34		evening max el	8952 Aug 01 21:10	7° № 29'33	19°56'09
evening set	8951 Sep 03 23:58	2° ₽ 11'07		retrograde	8952 Aug 12 04:35	12°M 35'13	
	8951 Sep 09 23:21	30°₽, Т р		evening set	8952 Aug 14 01:45	12° m 25'48	
inferior conj	8951 Sep 13 04:58	28° Mp 14'24	-4°23'12	desc. node	8952 Aug 14 10:34	12°M 21'50	
minimum elong	8951 Sep 12 19:20	28° Mp 27′57	4°20'41	inferior conj	8952 Aug 23 01:26	8° ™ 25'40	-2°37'10
min. Earth dist.	8951 Sep 13 13:03	28° Mp 03'02	0.54657 AU	minimum elong	8952 Aug 22 18:19	8° Mp 36'28	2°34'39
morning rise	8951 Sep 21 15:18	24° Mp 21'34		min. Earth dist.	8952 Aug 24 23:37	7° ™ 15'47	0.55127 AU
direct	8951 Sep 25 09:55	23° m 50'50		morning rise	8952 Aug 31 09:14	4° Mp 08′50	
morning max el	8951 Oct 08 03:28	29° m 54'39	22°34'02	direct	8952 Sep 04 22:32	3° m/23′30	
	8951 Oct 08 05:45	0∘ ⊽		morning max el	8952 Sep 18 15:54	10° m 09'38	24°20'32
asc. node	8951 Oct 21 02:28	17° £ 22'50			8952 Oct 03 10:35	0∘ ⊽	
	8951 Oct 27 17:41	0°M		asc. node	8952 Oct 06 23:24	6° £ 22'30	
morning set	8951 Oct 30 06:13	5° ™ 14'32		morning set	8952 Oct 13 17:59	20° ₽ 03'37	
-				_	8952 Oct 18 07:58	0°M	
superior conj	8951 Nov 06 07:15	20°M₁8′09	1°40'45				
minimum elong	8951 Nov 06 07:33	20° ™ 19'46	1°40'56	superior conj	8952 Oct 20 15:06	5°M01'29	1°39'13
max. Earth dist.	8951 Nov 09 16:27	27° M 24'21	1.34000 AU	minimum elong	8952 Oct 20 14:16	4°M56'52	1°39'20
	8951 Nov 10 22:46	0° ∡ ¹		max. Earth dist.	8952 Oct 22 16:50	9°M31'08	1.32739 AU
evening rise	8951 Nov 14 06:48	6° ∡ ³39'31		evening rise	8952 Oct 28 00:09	20°M38'40	
desc. node	8951 Nov 24 12:03	25° ∡ 13'07		•	8952 Nov 01 18:41	0° ∡ ¹	
	8951 Nov 27 09:52	8°0		desc. node	8952 Nov 10 09:06	15° ∡ 107'42	
evening max el	8951 Dec 19 00:56	28° පි 24'14	27°07'35		8952 Nov 20 09:54	8°0	
	8951 Dec 20 18:41	0° ≈		evening max el	8952 Nov 30 12:55	11° る 39'30	27°29'06
retrograde	8952 Jan 01 10:00	5°≈45'27		retrograde	8952 Dec 14 05:32	18° る 58'26	
evening set	8952 Jan 08 03:25	3°≈09'58		evening set	8952 Dec 21 05:54	16° る 27'35	
S	8952 Jan 11 12:32	30°Rる		min. Earth dist.	8952 Dec 24 23:56	13° る 13'17	0.63553 AU
min. Earth dist.	8952 Jan 12 01:42	29° る 24'24	0.65248 AU	inferior conj	8952 Dec 27 15:25	10° る 32'54	-2°05'08
inferior conj	8952 Jan 14 06:03	26° る 57'45		minimum elong	8952 Dec 27 19:23	10° る 22'50	
minimum elong	8952 Jan 14 07:44	26° ප 53'03		asc. node	8953 Jan 02 22:55	5° る 27'53	
asc. node	8952 Jan 17 01:51	23° る 58'13		morning rise	8953 Jan 03 10:47	5° る 15'26	
morning rise	8952 Jan 20 13:24	21° る 25'02		direct	8953 Jan 05 20:13	4° る 47'33	
direct	8952 Jan 23 05:40	20° ප් 46'41		morning max el	8953 Jan 12 09:13	8° ට 10'38	17°48'16
morning max el	8952 Jan 29 15:47	24°る10'19	18°02'21		8953 Jan 26 22:14	0°≈	
	8952 Feb 03 10:58	0°≈	10 0221	morning set	8953 Jan 28 19:40	0 ~ 3° ≈ 15'39	
morning set	8952 Feb 16 17:18	0 ∞ 20°≈59'14		desc. node	8953 Feb 06 08:28	17°≈47'16	
desc. node	8952 Feb 20 11:33	20 ≈39 14 27°≈08'56		acse. Houc	0,00100 00 00.20	1, ~7/10	
desc. Houc	8952 Feb 20 11:35 8952 Feb 22 05:35	27 ≈ 08 36 0° ∺		superior conj	8953 Feb 10 07:36	24° ≈ 20'56	-0°28'50
	0,52100 22 05.55	υ Λ		minimum elong	8953 Feb 10 07:30 8953 Feb 10 04:30	24 ≈20 30 24°≈08'11	0°28'12
superior conj	8952 Mar 02 04:32	14°) (21'13	-1°12'44	mmmum ciong	8953 Feb 10 04.30 8953 Feb 13 19:06	24 ≈ 08 11 0° ∀	0 20 12
minimum elong	8952 Mar 01 20:22	14 X 21 13		max. Earth dist.	8953 Feb 16 05:33	3°) 54'02	1.44536 AU
max. Earth dist.	8952 Mar 05 10:56		1.45388 AU	evening rise	8953 Feb 16 05:33 8953 Feb 25 19:41	18° ¥ 53′00	1. 11 330 AU
max. Latui Uist.	0732 IVIAI UJ 1U.30	19 八 30 04	1.4JJ00 AU	evening rise	0733 FCU Z3 17.41	10 1/3300	

	8953 Mar 05 03:24	0°Υ		desc. node	8954 Jan 24 05:23	8° ≈ 30'18	
evening max el	8953 Mar 26 14:25	29° Υ 14'44	20°40'15	max. Earth dist.	8954 Jan 29 20:46	17°≈54'25	1.43052 AU
* · · · · · · · · · · · · · · · · · · ·	8953 Mar 27 08:46	0°8		evening rise	8954 Feb 05 13:05	28° ≈ 35'55	
asc. node	8953 Mar 31 21:40	3° 8 20'05		8	8954 Feb 06 10:36	0°) €	
retrograde	8953 Apr 03 19:13	4° 8 02'20			8954 Feb 26 20:22	$0^{\circ}\Upsilon$	
evening set	8953 Apr 07 20:40	2° 8 28'14		evening max el	8954 Mar 09 10:20	12° Y 56'01	21°53'33
C	8953 Apr 10 08:28	30° ₹ Υ		retrograde	8954 Mar 18 16:56	18° Y 25′28	
inferior conj	8953 Apr 13 03:58	26° Ƴ 19'32	3°06'04	asc. node	8954 Mar 18 18:48	18° Y 25'26	
minimum elong	8953 Apr 13 02:22	26° Y 25'01	3°05'43	evening set	8954 Mar 23 04:49	16° Ƴ 36′01	
min. Earth dist.	8953 Apr 13 17:53	25° Y 31'38	0.68009 AU	inferior conj	8954 Mar 28 12:17	10° Y 16′56	2°42'28
morning rise	8953 Apr 18 07:51	20° Y 03'43		minimum elong	8954 Mar 28 10:11	10° Y ′24'18	2°41'56
direct	8953 Apr 23 19:36	17° Y 37'28		min. Earth dist.	8954 Mar 28 13:22	10° Ƴ 13'11	0.68439 AU
morning max el	8953 May 04 19:50	24° Y 12'16	24°02'10	morning rise	8954 Apr 02 15:23	4° Υ 05'10	
desc. node	8953 May 05 08:29	24° Y 44'38		direct	8954 Apr 07 13:14	1° Y 58'47	
	8953 May 10 00:07	0°8		morning max el	8954 Apr 17 06:37	7° Y 42'37	22°32'36
	8953 May 31 02:52	$\Pi^{\circ}0$		desc. node	8954 Apr 22 05:25	13° Y 15′25	
morning set	8953 Jun 09 08:44	15° Ⅱ 15'20			8954 May 04 14:12	0°8	
max. Earth dist.	8953 Jun 13 02:17	21° ∏ 47'27	1.38279 AU	morning set	8954 May 21 03:10	25° 8 31'50	
	8953 Jun 17 14:31	0_{\circ} වෙ			8954 May 23 20:05	Π $^{\circ}0$	
				max. Earth dist.	8954 May 25 23:57	3° Ⅱ 38'15	1.40534 AU
superior conj	8953 Jun 20 08:31	5°910'11					
minimum elong	8953 Jun 20 12:52	5°930'54	1°08'18	superior conj	8954 Jun 02 18:52	17° Ⅱ 15'58	
asc. node	8953 Jun 27 20:36	19°546'20		minimum elong	8954 Jun 03 00:45	17° Ⅱ 42'33	1°38'20
evening rise	8953 Jun 29 06:59	22° © 35'38			8954 Jun 09 16:31	0.22	
	8953 Jul 03 02:35	0° N	10050154	evening rise	8954 Jun 12 20:54	5°959'53	
evening max el	8953 Jul 15 16:48	19° Ω 16'37	18°58'54	asc. node	8954 Jun 14 17:38	9° £ 30′15 0° £	
retrograde	8953 Jul 24 09:09 8953 Jul 26 07:24	23° Ω 34'59 23° Ω 23'06		avanina may al	8954 Jun 27 07:43 8954 Jun 28 22:11		18°22'34
evening set desc. node	8953 Aug 01 07:42	23 δι 23 06 20° Ω 39'40		evening max el retrograde	8954 Jul 06 09:00	5° Ω 27'45	18 22 34
inferior conj	8953 Aug 01 07.42 8953 Aug 03 14:18	20 ∂ℓ 39 40 19° Ω 07'18	00/11/5/	evening set	8954 Jul 08 13:44	5° Ω 09'06	
minimum elong	8953 Aug 03 12:31	19° Ω 10'24	0°41'23	inferior conj	8954 Jul 16 00:55	0° Ω 33'16	0°55'40
min. Earth dist.	8953 Aug 05 12:51 8953 Aug 06 13:51	17° Ω 03'04	0.56472 AU	minimum elong	8954 Jul 16 00:33	0° Ω 29'26	0°54'55
morning rise	8953 Aug 10 13:31 8953 Aug 11 14:29	14° Ω 14'12	0.30472 AO	minimum clong	8954 Jul 16 17:04	30°Rூ	0 3433
direct	8953 Aug 16 23:32	13°Ω05'57		desc. node	8954 Jul 19 04:49	27°958'30	
morning max el	8953 Aug 31 05:07	20°Ω25'11	25°58'56	min. Earth dist.	8954 Jul 19 09:57	27°548'30	0.58426 AU
moming man vi	8953 Sep 08 11:02	0° mp	20 0000	morning rise	8954 Jul 23 12:26	25°504'33	0.50.20110
asc. node	8953 Sep 23 20:20	25° m 47'33		direct	8954 Jul 29 14:55	23°\$26'25	
	8953 Sep 25 22:09	0∘ <u>⊽</u>			8954 Aug 11 18:51	$0^{\circ}\Omega$	
morning set	8953 Sep 28 05:04	4° ≏ 48'01		morning max el	8954 Aug 13 00:19	1° Ω 09'42	27°12'42
C	•			· ·	8954 Sep 02 15:17	0° m	
superior conj	8953 Oct 05 01:53	19° ჲ 50'28	1°31'49	asc. node	8954 Sep 10 17:16	15° m 31'04	
minimum elong	8953 Oct 05 00:11	19° ≏ 41'02	1°31'45	morning set	8954 Sep 12 13:50	19° m 23'22	
max. Earth dist.	8953 Oct 05 23:37	21° ≏ 50'33	1.31936 AU		8954 Sep 17 11:18	0∘ 亚	
	8953 Oct 09 17:19	0°M					
evening rise	8953 Oct 12 01:32	4°M58'03		superior conj	8954 Sep 19 13:43	4° ჲ 39'32	1°19'02
	8953 Oct 25 10:11	0° ∡ ″		minimum elong	8954 Sep 19 11:32	4° £ 27'26	1°18'45
desc. node	8953 Oct 28 06:12	4° ∡ ³31'59		max. Earth dist.	8954 Sep 19 09:29	4° £ 16′03	1.31600 AU
evening max el	8953 Nov 12 21:08	24° ∡ 18'57	27°19'22	evening rise	8954 Sep 26 08:26	19° ≏ 31'04	
	8953 Nov 20 16:05	0°₹			8954 Oct 01 11:13	0°M₊	
retrograde	8953 Nov 26 17:26	1° る 32'04		desc. node	8954 Oct 15 03:21	23°M14'03	
_	8953 Dec 02 12:08	30°R. ✓			8954 Oct 20 05:57	0° ∡	
evening set	8953 Dec 03 18:58	29° √ 15′01		evening max el	8954 Oct 25 22:50	6° √ 11'02	26°35'34
min. Earth dist.	8953 Dec 07 11:36	26° ₹ 26'06	0.61596 AU	retrograde	8954 Nov 08 20:50	13° √ 18'15	
inferior conj	8953 Dec 10 12:19	23° 🖈 43'32		evening set	8954 Nov 15 14:22	11° 🗷 25'28	0.50501.177
minimum elong	8953 Dec 10 18:36	23°×729'25	3°14'16	min. Earth dist.	8954 Nov 19 12:31	8° 🗷 50'06	0.59501 AU
morning rise	8953 Dec 17 20:33	18° 🗷 44'50		inferior conj	8954 Nov 22 17:14	6° ₹20'21	
direct	8953 Dec 20 01:52	18° ₹ 23'50		minimum elong	8954 Nov 23 00:45	6° ₹ 05'38 1° ₹ 43'30	4 22 30
asc. node morning max el	8953 Dec 20 19:58 8953 Dec 27 01:21	18° ₹ 26'20 21° ₹ 55'20	17°52'18	morning rise direct	8954 Nov 30 13:37 8954 Dec 02 18:22	1°×'43'30 1°×'26'08	
morning max er	8954 Jan 02 06:08	0°る	1/ 5410	asc. node	8954 Dec 02 18:22 8954 Dec 07 16:59	2°×126'08	
morning set	8954 Jan 11 18:18	0°る 16° る 29'11		morning max el	8954 Dec 10 12:42		18°15'44
morning set	8954 Jan 19 07:22	10 3 2911 0° ≈		morning set	8954 Dec 26 07:18	0°る22'03	10 12 77
	575 T Jan 17 U1.44	· ~		morning set	8954 Dec 26 02:39	0 82203 0°る	
superior conj	8954 Jan 22 12:03	5° ≈ 33'33	0°12'49		373 1 200 20 02.39	v O	
minimum elong	8954 Jan 22 13:12	5°≈38'31	0°12'52	superior conj	8955 Jan 04 16:07	17° る 53'07	0°47'11
behind sun begin	8954 Jan 22 08:08	5°≈16'40		minimum elong	8955 Jan 04 19:12	18°る07'09	0°46'58
behind sun end	8954 Jan 22 18:17	6°≈00'20		desc. node	8955 Jan 11 02:21	29° る 14'35	
	== 10.1/	50 20					

	8955 Jan 11 12:57	0° ≈		desc. node	8955 Dec 28 23:21	19° る 56'40	
max. Earth dist.	8955 Jan 12 06:44	1°≈15'48	1.41109 AU	evening rise	8955 Dec 29 08:59	20°る38'03	
evening rise	8955 Jan 17 00:06	9°≈07'47	1.11107710	evening rise	8956 Jan 03 23:46	0°≈	
e vennig rise	8955 Jan 30 11:48	0° ∀			8956 Jan 24 13:58	0° ₩	
evening max el	8955 Feb 20 02:02	26°) 39′20	23°13'00	evening max el	8956 Feb 02 15:41	10° ¥ 26′25	24°32'31
<i>y</i>	8955 Feb 23 20:09	$0^{\circ}\Upsilon$		retrograde	8956 Feb 14 04:00	17°) 10′22	
retrograde	8955 Mar 02 12:18	2° Y 49'41		evening set	8956 Feb 19 15:37	14° ¥ 53'11	
asc. node	8955 Mar 05 15:56	2° Y 00'55		asc. node	8956 Feb 20 13:02	14°) 04′04	
evening set	8955 Mar 07 11:39	0° Ƴ 45'37		min. Earth dist.	8956 Feb 24 06:01	9° ₩ 39'08	0.68036 AU
	8955 Mar 08 07:35	30° ₹ ₩		inferior conj	8956 Feb 25 04:28	8°) 24′08	1°28'00
inferior conj	8955 Mar 12 21:05	24°) (19′24	2°09'35	minimum elong	8956 Feb 25 02:37	8°) 30′20	1°27'27
minimum elong	8955 Mar 12 18:51	24°) €27'05	2°08'57	morning rise	8956 Mar 01 13:45	2° 升 24'23	
min. Earth dist.	8955 Mar 12 10:10	24°) ₹ 57'04	0.68441 AU	direct	8956 Mar 05 08:52	1° ₩ 01'50	
morning rise	8955 Mar 18 02:00	18°) 12′56		morning max el	8956 Mar 12 21:25	5° ₩ 15'11	19°56'34
direct	8955 Mar 22 10:04	16°) €28'37		desc. node	8956 Mar 25 23:13	22° ℋ 12'34	
morning max el	8955 Mar 30 22:20	21°) 22′54	21°08'44		8956 Mar 31 05:19	0 ° $\mathbf{\Upsilon}$	
	8955 Apr 07 05:46	0 ° $\mathbf{\Upsilon}$		morning set	8956 Apr 08 17:19	12° Y 56'35	
desc. node	8955 Apr 09 02:19	2° Y 28'29		max. Earth dist.	8956 Apr 19 12:57	29° Y 52'26	1.44252 AU
	8955 Apr 27 20:09	9° 8			8956 Apr 19 14:51	$0^{\circ}S$	
morning set	8955 Apr 30 18:39	4° 8 34'48					
max. Earth dist.	8955 May 08 02:52	16° 8 20'10	1.42609 AU	superior conj	8956 Apr 24 20:42	8° 8 26'21	
				minimum elong	8956 Apr 24 21:17	8° 8 28'41	2°12'24
superior conj	8955 May 15 07:58	28° 8 22'52			8956 May 07 18:13	$\Pi^{\circ 0}$	
minimum elong	8955 May 15 13:12	28° 8 45'10	2°01'53	evening rise	8956 May 08 02:26	0°Д35′06	
	8955 May 16 06:40	0° Π		asc. node	8956 May 18 11:46	18° Ⅱ 00'43	
evening rise	8955 May 26 20:57	18° Ⅱ 43'00		evening max el	8956 May 25 22:52	27° Ⅱ 57'52	18°08'56
asc. node	8955 Jun 01 14:41	28° Ⅱ 56'58			8956 May 28 09:55	0.ee	
	8955 Jun 02 05:13	0°99	10006114	retrograde	8956 Jun 01 08:05	1°518'41	
evening max el	8955 Jun 12 09:23	14°5940'21	18°06'14	evening set	8956 Jun 04 04:05	0°937'17	
retrograde	8955 Jun 19 02:04	18°505'18			8956 Jun 05 06:31	30°RⅡ 25°用22/26	2051122
evening set	8955 Jun 21 14:27	17°536'31	2006121	inferior conj	8956 Jun 10 07:49	25° Ⅲ 22'36 25° Ⅲ 16'02	2°51'22 2°50'39
inferior conj minimum elong	8955 Jun 28 08:00 8955 Jun 28 10:58	12° © 40'39 12° © 33'35	2°06'31 2°05'26	minimum elong min. Earth dist.	8956 Jun 10 10:15 8956 Jun 13 02:10	23° I I 16 02 22° I I 24'49	0.62880 AU
min. Earth dist.	8955 Jul 01 13:39	9° 9 37'30	0.60664 AU	morning rise	8956 Jun 16 14:47	19° Ⅱ 12'49	0.02880 AU
morning rise	8955 Jul 05 04:50	6°936'02	0.00004 AU	desc. node	8956 Jun 21 22:57	19 Ⅱ 1249 16° Ⅱ 47'04	
desc. node	8955 Jul 06 01:54	6°914'08		direct	8956 Jun 23 08:54	16° I I40'39	
direct	8955 Jul 11 18:55	4°937'20		morning max el	8956 Jul 07 09:24	24° I I43'29	27°51'30
morning max el	8955 Jul 26 02:15	12° © 35'28	27°51'15	morning max cr	8956 Jul 12 04:17	0°9	27 31 30
morning max er	8955 Aug 08 21:23	0°Ω	27 31 13		8956 Aug 01 07:46	$0^{\circ}\Omega$	
	8955 Aug 25 22:46	0° m/y		morning set	8956 Aug 10 16:43	17° Ω 42'42	
morning set	8955 Aug 27 18:26	3° Mp 43'35		asc. node	8956 Aug 14 11:09	25° Ω 29'34	
asc. node	8955 Aug 28 14:12	5° m 26'38		max. Earth dist.	8956 Aug 15 23:03	28° Ω 40'15	1.32334 AU
max. Earth dist.	8955 Sep 02 18:33	16° m 36'03	1.31727 AU		8956 Aug 16 13:55	0° m)	
	ī	Î			Ü	•	
superior conj	8955 Sep 04 00:44	19° m 22'24	1°01'13	superior conj	8956 Aug 18 09:06	3° m 53'31	0°38'42
minimum elong	8955 Sep 03 22:33	19° m 10'18	1°00'46	minimum elong	8956 Aug 18 07:25	3° Mp 44'22	0°38'14
	8955 Sep 08 20:20	0∘ ⊽		evening rise	8956 Aug 25 06:11	18° m 51'23	
evening rise	8955 Sep 10 18:38	4° £ 10'41			8956 Aug 30 16:01	0∘ ত	
	8955 Sep 24 08:57	0°M		desc. node	8956 Sep 17 21:39	27° ≏ 18′02	
desc. node	8955 Oct 02 00:30	10°M57'00		evening max el	8956 Sep 18 04:16	27° ≏ 34'11	23°45'33
evening max el	8955 Oct 07 16:28	17°M12'08	25°20'45		8956 Sep 20 22:45	0°M₊	
retrograde	8955 Oct 21 14:04	24°M12'55		retrograde	8956 Oct 01 18:44	4°ML22'12	
evening set	8955 Oct 27 11:19	22°M53'26		evening set	8956 Oct 06 07:44	3°M237'09	
min. Earth dist.	8955 Nov 01 04:29	20°M14'12		min. Earth dist.	8956 Oct 12 14:38	0° M 35'42	0.55817 AU
inferior conj	8955 Nov 04 03:01	18°M14'29			8956 Oct 13 14:33	30° ₹ Ω	
minimum elong	8955 Nov 04 08:42	18°M04'48	5°17'18	inferior conj	8956 Oct 14 16:33	29° ≏ 20'49	
morning rise	8955 Nov 12 08:25	14°M00'17		minimum elong	8956 Oct 14 15:59	29° ≙ 21'40	5°38'09
direct	8955 Nov 14 17:30	13°M43'24		morning rise	8956 Oct 23 02:14	25° £ 25'35	
morning max el	8955 Nov 23 15:32	17°M59'52	19°00'17	direct	8956 Oct 25 21:28	25° £ 05'53	
asc. node	8955 Nov 24 13:59	18°M56'22			8956 Nov 05 06:48	0°M	2000=
	8955 Dec 02 10:19	0° √		morning max el	8956 Nov 05 06:24	29° £ 59'04	20°07'17
morning set	8955 Dec 10 06:11	14° ₹ 41'30		asc. node	8956 Nov 10 10:58	6°M02'39	
	8955 Dec 18 01:14	0°ප		morning set	8956 Nov 23 11:34	29°M17'42	
	0055 D 10 14 55	10705140	1012142		8956 Nov 23 19:51	0° ∡ 7	
superior conj	8955 Dec 18 14:55	1°る05'40		aumori ·	9056 D 01 02 22	140.75050	1020120
minimum elong max. Earth dist.	8955 Dec 18 18:07 8955 Dec 25 12:43		1°12'34 1.38945 AU	superior conj minimum elong	8956 Dec 01 03:33 8956 Dec 01 05:51	14° ₹ 56'56 15° ₹ 08'30	1°29'38 1°29'40
max. Earm uist.	0733 DCC 23 12.43	15 03331	1.30343 AU	minimum ciong	0,50 DCC 01 05.51	15 🗡 00 30	1 2740

max. Earth dist.	8956 Dec 06 19:13 8956 Dec 08 22:33	25°♂59'50 0°♂	1.36813 AU	morning set	8957 Nov 07 20:59	14° M 03'53	
ovoning riso	8956 Dec 10 14:18	0 3 3° る 01'51		gunarior agni	8957 Nov 15 02:04	29°M16'00	1°38'43
evening rise desc. node	8956 Dec 14 20:21	10°る32'07		superior conj minimum elong	8957 Nov 15 02:04 8957 Nov 15 03:06	29°M21'27	1°38'53
desc. flode	8956 Dec 27 00:51	10 3 32 07 0° ≈		minimum clong	8957 Nov 15 03:00 8957 Nov 15 10:30	29 الق21 27 0° √ا	1 30 33
evening max el	8957 Jan 15 04:57	0 ∞ 24°≈14'46	25°45'06	max. Earth dist.	8957 Nov 19 10:30 8957 Nov 19 07:07	0 x ⁴ 7° x ¹54'02	1.34924 AU
evening max ci	8957 Jan 22 16:19	0°) (23 43 00	evening rise	8957 Nov 13 07:07 8957 Nov 23 12:35	16° ₹ 10'28	1.34924 AU
retrograde	8957 Jan 27 14:55	1° ¥ 21'15		evening rise	8957 Dec 01 04:07	0°る	
retrograde	8957 Feb 01 02:31	30°R≈		desc. node	8957 Dec 01 04:07 8957 Dec 01 17:24	0° ろ 56'39	
evening set	8957 Feb 02 15:04	28°≈53'24		dese. Hode	8957 Dec 21 12:40	0° ≈	
asc. node	8957 Feb 06 10:09	24°≈52'43		evening max el	8957 Dec 28 18:19	7°≈57'59	26°43'18
min. Earth dist.	8957 Feb 06 22:36	24°≈14'05	0.67245 AU	retrograde	8958 Jan 10 20:18	15°≈16'08	20 43 10
inferior conj	8957 Feb 08 08:33	22°≈26'33	0°38'01	evening set	8958 Jan 17 08:12	12°≈41'38	
minimum elong	8957 Feb 08 07:36	22°≈29'33	0°37'48	min. Earth dist.	8958 Jan 21 09:38	8°≈36'56	0.66084 AU
morning rise	8957 Feb 14 00:38	16°≈35'28	0 37 40	inferior conj	8958 Jan 23 07:17	6°≈22'33	
direct	8957 Feb 17 08:06	15°≈32'37		minimum elong	8958 Jan 23 07:50	6°≈20'56	0°19'32
morning max el	8957 Feb 24 04:15	19°≈17'05	18°59'18	asc. node	8958 Jan 24 07:13	5°≈12'43	0 1732
morning max or	8957 Mar 04 15:39	0° ∀	10 37 10	morning rise	8958 Jan 29 08:28	0°≈42'29	
greatest brilliancy	8957 Mar 10 02:52	8° ₩ 08'50	-0.8m	morning 1130	8958 Jan 31 10:02	30°Rる	
desc. node	8957 Mar 12 20:05	12°) 18'43	0.0111	direct	8958 Feb 01 05:49	29° පි 56'14	
morning set	8957 Mar 18 22:12	21°) (44'21		direct	8958 Feb 02 01:44	0°≈	
morning sec	8957 Mar 24 05:39	0°Υ		morning max el	8958 Feb 07 17:19	3°≈23'58	18°18'19
max. Earth dist.	8957 Apr 02 05:13	14° Υ 02'09	1.45271 AU	morning max cr	8958 Feb 26 00:50	0° ∀	10 10 17
max. Lartii dist.	0757 Apr 02 05.15	14 1 02 07	1.432/1710	morning set	8958 Feb 27 04:31	1° ∺ 51′01	
superior conj	8957 Apr 04 11:17	17° Ƴ 34'48	-2°03'48	desc. node	8958 Feb 27 16:58	2°) (40'54	
minimum elong	8957 Apr 04 04:43	17° Υ 08'58		desc. node	0,501 00 27 10.50	2 /(1031	
minimum ciong	8957 Apr 12 06:51	0°8	2 03 31	superior conj	8958 Mar 14 16:21	26°) 24′22	-1°35'33
evening rise	8957 Apr 19 09:11	11° 8 28'32		minimum elong	8958 Mar 14 06:46	25°) (46'48	1°34'34
evening rise	8957 Apr 30 21:04	0°Ⅱ		max. Earth dist.	8958 Mar 16 00:43	28°) (31'05	1.45561 AU
asc. node	8957 May 05 08:50	6° ∏ 33'28		max. Earth dist.	8958 Mar 16 23:27	0°Υ	1.13301710
evening max el	8957 May 09 11:32		18°30'00	evening rise	8958 Mar 30 16:40	21° Υ 26'50	
retrograde	8957 May 15 22:54	14° Д 58'33	10 30 00	evening rise	8958 Apr 05 03:48	0°8	
evening set	8957 May 19 02:23	14° Ⅲ 03'08		greatest brilliancy	8958 Apr 10 13:10	8° 8 21'22	-0.8m
inferior conj	8957 May 24 20:16	8° Д 31'03	3°14'58	asc. node	8958 Apr 22 05:56	24° 8 25'22	0.0111
minimum elong	8957 May 24 20:10	8° П 27'22	3°14'37	evening max el	8958 Apr 22 20:53	25° 8 04'15	19°08'29
min. Earth dist.	8957 May 24 21:30 8957 May 26 23:49	5° Π 57'50	0.64838 AU	retrograde	8958 Apr 29 18:55	28° 8 57'19	17 00 27
morning rise	8957 May 30 15:45	2° Ⅱ 14'07	0.04030710	evening set	8958 May 03 06:14	27° 8 47'09	
morning rise	8957 Jun 03 09:33	30°R ∀		inferior conj	8958 May 08 17:45	21° 8 59'16	3°21'46
direct	8957 Jun 06 06:51	29° 8 29'49		minimum elong	8958 May 08 17:42	21° 8 59'24	
desc. node	8957 Jun 08 19:57	29° 8 51'08		min. Earth dist.	8958 May 10 05:59		0.66412 AU
dese. Hode	8957 Jun 09 07:55	0°II		morning rise	8958 May 14 04:45	15° 8 40'19	0.00112110
morning max el	8957 Jun 19 19:25	7° ∏ 26'14	27°16'47	direct	8958 May 20 11:31	12° 8 55'35	
morning max er	8957 Jul 07 05:10	0°95	27 1047	desc. node	8958 May 26 16:55	15° 8 02'54	
	8957 Jul 24 14:53	$0 {\circ} \Omega$		morning max el	8958 Jun 02 05:55	20° 8 32'19	26°14'13
morning set	8957 Jul 25 06:03	1° Ω 13'29		morning max or	8958 Jun 10 09:11	0°II	20 1113
max. Earth dist.	8957 Jul 29 19:26	10° Ω 20'35	1.33431 AU		8958 Jun 30 08:42	0°©	
asc. node	8957 Aug 01 08:07	15° Ω 35'44	1.55 151 710	morning set	8958 Jul 08 06:54	14°506'03	
	,			max. Earth dist.	8958 Jul 12 05:20	21° © 35'58	1.35011 AU
superior conj	8957 Aug 02 12:47	18° Ω 06'59	0°12'00		8958 Jul 16 10:38	$0^{\circ}\Omega$	
minimum elong	8957 Aug 02 12:11	18° Ω 03'47					
behind sun begin	8957 Aug 02 08:22	17° Ω 43'33	· ·-	superior conj	8958 Jul 17 09:17	1° Ω 55'20	-0°18'07
behind sun end	8957 Aug 02 16:00	18° Ω 24'02		minimum elong	8958 Jul 17 10:20	2° Ω 00'43	
	8957 Aug 08 02:11	0° my		asc. node	8958 Jul 19 05:04	5° Ω 40'35	
evening rise	8957 Aug 09 17:15	3° m/27'37		evening rise	8958 Jul 25 01:46	17° £ 52'39	
	8957 Aug 24 06:24	0∘ ⊽			8958 Jul 31 03:53	0° mp	
evening max el	8957 Aug 30 17:26	7° Ω 46'56	22°06'30	evening max el	8958 Aug 12 16:22	18° m/23'55	20°38'22
desc. node	8957 Sep 04 18:46	11° ≏ 48'03		desc. node	8958 Aug 22 15:55	23° m 55'32	
retrograde	8957 Sep 12 11:28	14° ⊆ 07'36		retrograde	8958 Aug 23 23:38	23° m 59'59	
evening set	8957 Sep 15 13:08	13° Ω 46'40		evening set	8958 Aug 26 01:53	23° m/49'14	
min. Earth dist.	8957 Sep 23 22:32	10° ⊆ 07'23	0.54831 AU	inferior conj	8958 Sep 04 06:28	19° m 52'23	-3°41'34
inferior conj	8957 Sep 24 13:56	9° £ 45'47		minimum elong	8958 Sep 04 00:28	20° m 05'45	
minimum elong	8957 Sep 24 06:05	9° £ 56'48		min. Earth dist.	8958 Sep 05 07:29	19° Mp 16'25	0.54742 AU
morning rise	8957 Oct 03 00:34	5° £ 58'08	5 00 11	morning rise	8958 Sep 12 16:14	15° mp 51'51	0.0 . / 12 /10
direct	8957 Oct 06 10:07	5° £ 32'30		direct	8958 Sep 16 18:19	15° Mp 16'05	
morning max el	8957 Oct 18 08:05	11° ⊆ 09'06	21°35'44	morning max el	8958 Sep 29 23:38	21° mp 38'09	23°19'15
asc. node	8957 Oct 28 07:56	24° £ 03'01	21 22 11		8958 Oct 07 05:09	ე∘ ი	_5 1/15
200. 11000	8957 Oct 28 07:30 8957 Oct 31 18:26	0°M		asc. node	8958 Oct 15 04:53	0 — 12° ≏ 43'50	
	500 51 10.20	÷ 116				15 50	

morning set	8958 Oct 23 08:24	28° ≙ 53'15		morning max el	8959 Sep 11 11:50	1° m 50'34	25°04'19
	8958 Oct 23 20:57	0° M ₊			8959 Oct 01 01:47	0∘ ত	
				asc. node	8959 Oct 02 01:50	1° ≙ 55'07	
superior conj	8958 Oct 30 07:16	13°ML52'39	1°40'51	morning set	8959 Oct 07 20:05	13° ≏ 40'51	
minimum elong	8958 Oct 30 07:03	13°ML51'31	1°41'01				
max. Earth dist.	8958 Nov 02 02:49	19°M52'41	1.33410 AU	superior conj	8959 Oct 14 16:40	28° ≏ 39'18	1°36'47
evening rise	8958 Nov 06 23:58	29°ML53'18	1.55 110 110	minimum elong	8959 Oct 14 15:24	28° £ 32'25	1°36'49
evening rise	8958 Nov 07 01:19	0° ₹		minimum clong	8959 Oct 15 07:22	0° M	1 30 47
desc. node	8958 Nov 18 14:28	21° × ⁷ 03'57		max. Earth dist.	8959 Oct 16 06:05	2°M04'10	1.32341 AU
desc. Hode							1.32341 AU
	8958 Nov 24 05:39	0°る	27020107	evening rise	8959 Oct 21 21:07	14°M01'49	
evening max el	8958 Dec 11 07:04	21° る 25'46	27°20'06		8959 Oct 30 03:31	0° ∡ 7	
retrograde	8958 Dec 24 19:42	28° ろ 46'49		desc. node	8959 Nov 05 11:34	10° ∡ ¹46'37	
evening set	8958 Dec 31 16:48	26° る 11'57			8959 Nov 19 11:11	0°る	
min. Earth dist.	8959 Jan 04 12:57	22° る 40'29	0.64566 AU	evening max el	8959 Nov 23 17:34	4° ਰ 26'24	27°28'56
inferior conj	8959 Jan 06 22:17	20° る 06'35	-1°25'07	retrograde	8959 Dec 07 12:21	11° る 43'59	
minimum elong	8959 Jan 07 00:53	19° る 59'33	1°23'48	evening set	8959 Dec 14 14:03	9° ට 17'31	
asc. node	8959 Jan 11 04:18	16° පි 02'11		min. Earth dist.	8959 Dec 18 06:50	6° ප 15'05	0.62742 AU
morning rise	8959 Jan 13 10:36	14° පි 40'17		inferior conj	8959 Dec 21 02:43	3° ට 31'51	-2°35'28
direct	8959 Jan 15 23:42	14° පි 06'52		minimum elong	8959 Dec 21 07:44	3° ⋜ 19'47	2°33'18
morning max el	8959 Jan 22 10:05	17° る 28'53	17°54'17	Č	8959 Dec 25 03:49	30°R <i>⊀</i> 7	
	8959 Jan 31 14:03	0° ≈		morning rise	8959 Dec 28 03:35	28° × ⁷ 22'11	
morning set	8959 Feb 08 16:06	13° ≈ 24'01		asc. node	8959 Dec 29 01:22	28° х 06'49	
desc. node	8959 Feb 14 13:53	23°≈14'22		direct	8959 Dec 30 10:44	27° × 757'49	
desc. Hode	8959 Feb 18 16:59	0° \		direct	8960 Jan 04 13:36	27 x 3749 0°る	
	8939 Feb 18 10.39	0 70				0 3 1° る 23'36	17947142
	0050 5 1 22 05 12	50)/ 4510 6	005.400	morning max el	8960 Jan 06 03:26		1/4/43
superior conj	8959 Feb 22 07:12	5°) 47'36		morning set	8960 Jan 22 03:53	26°る06'29	
minimum elong	8959 Feb 22 01:02	5°) 22'54			8960 Jan 24 09:01	0° ≈	
max. Earth dist.	8959 Feb 26 20:15	13°) € 00'46	1.45103 AU	desc. node	8960 Feb 01 10:49	13° ≈ 54'49	
	8959 Mar 09 18:22	$0^{\circ}\mathbf{\Upsilon}$					
evening rise	8959 Mar 10 07:31	0° Ƴ 50'29		superior conj	8960 Feb 02 20:53	16° ≈ 17'45	
greatest brilliancy	8959 Mar 25 03:42	23° Ƴ 13′29	-0.6m	minimum elong	8960 Feb 02 19:50	16° ≈ 13'25	0°10'08
	8959 Mar 29 22:15	8°		behind sun begin	8960 Feb 02 12:42	15° ≈ 43'32	
evening max el	8959 Apr 06 01:17	8° 8 43'18	20°02'52	behind sun end	8960 Feb 03 02:59	16° ≈ 43'14	
asc. node	8959 Apr 09 03:02	11° 8 24'20		max. Earth dist.	8960 Feb 09 13:06	27° ≈ 14′08	1.43963 AU
retrograde	8959 Apr 13 17:19	13° 8 09'16			8960 Feb 11 06:33	0° ℋ	
evening set	8959 Apr 17 13:13	11° 8 44'02		evening rise	8960 Feb 17 19:30	10° ₩ 15'18	
inferior conj	8959 Apr 22 21:20	5° 8 42'14	3°15'06	•	8960 Mar 01 22:42	$0^{\circ}\mathbf{\Upsilon}$	
minimum elong	8959 Apr 22 20:13	5° 8 46'01	3°14'51	evening max el	8960 Mar 19 00:09	22° Y 23′19	21°10'27
min. Earth dist.	8959 Apr 23 19:05	_	0.67546 AU	asc. node	8960 Mar 26 00:10	27°Υ15'13	
	8959 Apr 27 12:02	30° Ŗ ♈		retrograde	8960 Mar 27 15:47	27° Y 28'59	
morning rise	8959 Apr 28 02:56	29° Y ′24′28		evening set	8960 Mar 31 21:24	25° Υ 48'30	
direct	8959 May 03 22:07	26° Y 49'14		inferior conj	8960 Apr 06 04:32	19° Υ 35'03	2057114
direct	8959 May 11 08:40	0° 8		minimum elong	8960 Apr 06 02:40	19° Υ 41'31	2°56'50
desc. node	-	1° 8 51'43		•		19 Υ 41 31 19° Υ 05'54	0.68237 AU
	8959 May 13 13:52		24952112	min. Earth dist.	8960 Apr 06 12:56	19 γ 03 34 13° γ 20'33	0.08237 AU
morning max el	8959 May 15 15:33	3° 8 51'16	24-33-12	morning rise	8960 Apr 11 07:43		
	8959 Jun 04 15:33	0°II		direct	8960 Apr 16 13:35	11° Y 02'06	
morning set	8959 Jun 20 14:50	26° Ⅱ 09'08		morning max el	8960 Apr 27 00:56	17° Y 16′21	23°23'51
	8959 Jun 22 18:22	0° ©		desc. node	8960 Apr 29 10:48	19° Y 50'43	
max. Earth dist.	8959 Jun 24 05:34	2°5540'42	1.37002 AU		8960 May 07 14:30	0°8	
					8960 May 27 16:56	$\Pi^{\circ}0$	
superior conj	8959 Jun 30 19:38	15°©11'29	-0°50'13	morning set	8960 Jun 01 00:20	7° Ⅱ 07'27	
minimum elong	8959 Jun 30 22:46	15° © 26'49	0°49'53	max. Earth dist.	8960 Jun 05 01:25	14° Ⅱ 03'10	1.39237 AU
asc. node	8959 Jul 06 02:04	25° 5 40'41					
	8959 Jul 08 05:31	$0^{\circ}\Omega$		superior conj	8960 Jun 12 16:00	27° Ⅱ 45'31	-1°22'00
evening rise	8959 Jul 09 05:27	2° Ω 00′22		minimum elong	8960 Jun 12 21:09	28° Ⅱ 09'30	1°21'30
evening max el	8959 Jul 26 04:50	29° Ω 45'11	19°29'12		8960 Jun 13 20:47	0 \circ \odot	
	8959 Jul 26 10:54	0° m		asc. node	8960 Jun 21 23:05	15° © 31'24	
retrograde	8959 Aug 04 19:10	4° ™ 29'57		evening rise	8960 Jun 22 01:20	15° 5 42'18	
evening set	8959 Aug 06 15:25	4° m) 20'12			8960 Jun 29 17:42	$0^{\circ}\Omega$	
desc. node	8959 Aug 09 13:01	3° m/28'45		evening max el	8960 Jul 08 05:09	11°Ω50'30	18°41'01
inferior conj	8959 Aug 15 08:52	0° mp 14'27	-1°47'29	retrograde	8960 Jul 16 07:32	15° £ 52'05	
minimum elong	8959 Aug 15 04:00	0° mp 22'14		evening set	8960 Jul 18 08:13	15° Ω 37'50	
viong	8959 Aug 15 17:50	30°R Ω		inferior conj	8960 Jul 26 06:47	13° Ω 14'07	0°02'32
min. Earth dist.	8959 Aug 17 19:43	28° Ω 40'17	0.55605 AU	minimum elong	8960 Jul 26 06:52	11° Ω 13'57	0°02'18
morning rise	8959 Aug 23 14:04	25° Ω 42'26	0.000000	transit middle	8960 Jul 26 06:52	11° Ω 13'57	
direct	8959 Aug 28 11:32	23° Ω 42′20 24° Ω 48'30		transit hiddie	8960 Jul 26 03:15	11° Ω 20'42	0 02 10
uncet	8959 Sep 09 10:10	0° m)		transit degin	8960 Jul 26 10:29	11 δι 20 42	
	5757 Sep 09 10.10	עווי∨		transit ciid	5700 Jul 20 10.29	11 060/10	

dasa mada	8960 Jul 26 10:07	11° Ω 07'52		daga mada	8961 Jul 13 07:13	1000326136	
desc. node			0.57250 ATT	desc. node		18°936'26	
min. Earth dist.	8960 Jul 29 12:25	8° Ω 50'06	0.57250 AU	morning rise	8961 Jul 15 07:45	17°516'53	
morning rise	8960 Aug 03 02:01	6° Ω 05'04		direct	8961 Jul 21 16:14	15° © 25'21	
direct	8960 Aug 08 19:15	4° Ω 44'17		morning max el	8961 Aug 05 00:56	23°©15'14	27°33'47
morning max el	8960 Aug 23 03:06	12° Ω 15′20	26°33'58		8961 Aug 11 01:46	$0 {\circ} \Omega$	
	8960 Sep 05 23:57	0° m			8961 Aug 30 03:18	0° m	
asc. node	8960 Sep 17 22:48	21°M)28'47		asc. node	8961 Sep 04 19:43	11° m)17'57	
morning set	8960 Sep 21 06:25	28° m 22'01		morning set	8961 Sep 05 13:37	12° m 51'23	
C	8960 Sep 22 00:46	0∘ ⊽		max. Earth dist.	8961 Sep 12 00:35	26° m 51'48	1.31599 AU
	1				1		
superior conj	8960 Sep 28 04:09	13° ≏ 29'25	1°27'03	superior conj	8961 Sep 12 15:50	28° Mp 16'27	1°12'05
minimum elong	8960 Sep 28 02:12	13° ≏ 18'33	1°26'53	minimum elong	8961 Sep 12 13:36	28° m) 04'00	1°11'43
max. Earth dist.	8960 Sep 28 14:30	14° £ 26'46	1.31737 AU	mmam viong	8961 Sep 13 10:29	0° ರ	
evening rise	8960 Oct 05 01:10	28° £ 28'16	1.51757 710	evening rise	8961 Sep 19 09:43	0 — 13° Ω 05'05	
evening rise	8960 Oct 05 01:10	0°M		evening rise	8961 Sep 27 20:53	0° M	
JJ.				JJ.			
desc. node	8960 Oct 22 08:41	29°M54'47		desc. node	8961 Oct 09 05:49	18°M14'08	26007110
	8960 Oct 22 10:04	0° ∡ ¹		evening max el	8961 Oct 17 22:06	28°M 19'10	26°07'10
evening max el	8960 Nov 04 23:30	16° ₹ 47'54	27°04'57		8961 Oct 19 19:09	0° ∡	
retrograde	8960 Nov 18 21:07	23° ҂ 58'33		retrograde	8961 Oct 31 20:06	5° ҂ 22'54	
evening set	8960 Nov 25 20:16	21° ₹ ′50'53		evening set	8961 Nov 07 06:40	3° ҂ ¹43'44	
min. Earth dist.	8960 Nov 29 14:12	19° ₰ 09'10	0.60707 AU	min. Earth dist.	8961 Nov 11 11:02	1° ≮ °09'02	0.58620 AU
inferior conj	8960 Dec 02 17:21	16° ∡ ³30′07	-3°46'41		8961 Nov 13 01:01	30°RM₊	
minimum elong	8960 Dec 03 00:24	16° ∡ 15′10	3°44'12	inferior conj	8961 Nov 14 14:32	28°M50'19	-4°50'24
morning rise	8960 Dec 10 06:58	11° √ 40′11		minimum elong	8961 Nov 14 21:46	28°M36'58	4°48'37
direct	8960 Dec 12 11:25	11° ₹ '21'10		morning rise	8961 Nov 22 15:13	24°M22'49	
asc. node	8960 Dec 14 22:25	11° ∡ 746′15		direct	8961 Nov 24 21:16	24°M05'55	
morning max el	8960 Dec 19 18:01	14° × 59'26	17°59'44	asc. node	8961 Dec 01 19:27	26°M56'39	
morning max er	8960 Dec 30 02:00	0°る	17 37 44	morning max el	8961 Dec 03 02:08	28°M05'24	18°31'55
morning set	8961 Jan 04 09:22	9°₹39'19		morning max cr	8961 Dec 04 21:10	0°×7	10 31 33
morning set	6901 Jan 04 09.22	9 03919					
	00617 14.11.56	200-700124	0000106	morning set	8961 Dec 19 03:04	23° ∡ 745′15	
superior conj	8961 Jan 14 11:56	28°₹00'34	0°28'26		8961 Dec 22 08:42	0°₹	
minimum elong	8961 Jan 14 14:11	28° る 10'29	0°28'19			🗕	
	8961 Jan 15 15:10	0° ≈		superior conj	8961 Dec 28 00:36	10° ठ 44'26	0°59'06
desc. node	8961 Jan 18 07:47	4° ≈ 39'04		minimum elong	8961 Dec 28 03:54	10° る 59'48	0°58'53
max. Earth dist.	8961 Jan 22 01:58	10° ≈ 58'49	1.42271 AU	max. Earth dist.	8962 Jan 04 10:29	24° る 03'47	1.40210 AU
evening rise	8961 Jan 27 19:33	20° ≈ 17'44		desc. node	8962 Jan 05 04:46	25° る 22'47	
	8961 Feb 03 00:59	0° ℋ			8962 Jan 07 21:59	0° ≈	
	8961 Feb 24 08:37	0 \circ Υ		evening rise	8962 Jan 08 15:49	1° ≈ 14'34	
evening max el	8961 Mar 01 18:12	6° Ƴ 05'47	22°27'00		8962 Jan 27 09:50	0° ∀	
retrograde	8961 Mar 11 12:33	11° Y 52'46		evening max el	8962 Feb 12 08:54	19°) 51′03	23°47'11
asc. node	8961 Mar 12 21:17	11° Y 43'28		retrograde	8962 Feb 23 06:19	26° 升 16′03	
evening set	8961 Mar 16 05:10	9° Y 57'12		asc. node	8962 Feb 27 18:24	24°) €38'55	
inferior conj	8961 Mar 21 13:17	3° Υ 34'52	2°29'36	evening set	8962 Feb 28 10:56	24°) (06'06	
minimum elong	8961 Mar 21 11:04	3° Υ 42'34	2°29'02	min. Earth dist.	8962 Mar 05 05:49	18°) € 32′26	0.68326 AU
min. Earth dist.	8961 Mar 21 09:16	3° Υ 48'51	0.68495 AU	inferior conj	8962 Mar 05 21:41	17° ₩ 38'22	1°52'59
mm. Latin dist.		30° ₹	0.00473 AO		8962 Mar 05 19:33	17° X 3822	
	8961 Mar 24 05:44	27° ₩ 25'08		minimum elong	8962 Mar 11 04:10	11° X 4337	1 32 21
morning rise	8961 Mar 26 16:50			morning rise			
direct	8961 Mar 31 08:52	25°) 27'44 0° °		direct	8962 Mar 15 06:41	9° H 59'46	20°36'21
	8961 Apr 08 16:51			morning max el	8962 Mar 23 07:50	14°) (34'42	20°36′21
morning max el	8961 Apr 09 13:11	0° Υ 49'32	21°55'44	desc. node	8962 Apr 03 04:40	28°) €08'06	
desc. node	8961 Apr 16 07:45	8° Ƴ 40'51			8962 Apr 04 12:21	0°Υ	
	8961 May 01 10:32	0°8		morning set	8962 Apr 21 13:02	25° Y 29'06	
morning set	8961 May 12 06:54	16° 8 50'23			8962 Apr 24 10:25	$_{0\circ}$ 8	
max. Earth dist.	8961 May 18 00:42	26° 8 13'53	1.41458 AU	max. Earth dist.	8962 Apr 30 07:17	9° 8 20'39	1.43377 AU
	8961 May 20 06:31	Π $^{\circ}0$					
				superior conj	8962 May 06 20:45	20° 8 06'59	-2°08'19
superior conj	8961 May 25 17:50	9° Ⅱ 27'08	-1°49'48	minimum elong	8962 May 07 00:31	20° 8 22'47	2°08'21
minimum elong	8961 May 25 23:50	9° Ⅱ 53'32	1°49'28		8962 May 12 16:30	$\Pi^{\circ}0$	
evening rise	8961 Jun 05 09:49	28° Ⅱ 49'33		evening rise	8962 May 19 02:32	11° II 12'11	
-	8961 Jun 06 01:04	0°9		asc. node	8962 May 26 17:09	24° Ⅱ 25'52	
asc. node	8961 Jun 08 20:07	5° © 08'12			8962 May 30 04:09	0°ಅ	
evening max el	8961 Jun 21 13:30	24°931'10	18°13'18	evening max el	8962 Jun 05 02:02	7° 9 37'30	18°05'06
retrograde	8961 Jun 28 15:00	28°904'52	10 15 10	retrograde	8962 Jun 11 14:15	10°959'04	10 00 00
evening set	8961 Jun 30 23:08	28 \$04 32 27°\$42'06		evening set	8962 Jun 14 05:57	10 \$3904 10°\$25'03	
inferior conj	8961 Jul 08 02:22	27 \$342 06 22°\$57'34	1°20'10	inferior conj	8962 Jun 20 17:04	5°920'41	2°28'28
•							
minimum elong	8961 Jul 08 04:59			minimum elong	8962 Jun 20 19:57	5°913'25	2°27'31
min. Earth dist.	8961 Jul 11 11:16	207200213	0.59366 AU	min. Earth dist.	8962 Jun 23 18:25	2°517'23	0.61619 AU

	8962 Jun 26 09:10	30° Ŗ Ⅱ		minimum elong	8963 Jun 04 00:42	18° Ⅲ 09′10	
morning rise	8962 Jun 27 07:47	29° Ⅱ 18′26		min. Earth dist.	8963 Jun 06 10:58	15° Ⅱ 25'20	0.63745 AU
desc. node	8962 Jun 30 04:16	27° II 44'30		morning rise	8963 Jun 10 00:25	12° Ⅱ 00'47	
direct	8962 Jul 04 00:22	26° Ⅱ 58'59		direct	8963 Jun 16 17:50	9° ∏ 22'01	
marning may al	8962 Jul 12 07:37 8962 Jul 18 05:27	0°ഇ 4° ഇ 59'50	27°56'10	desc. node	8963 Jun 17 01:18 8963 Jun 30 14:21	9° Ⅲ 22'20 17° Ⅲ 24'24	27040147
morning max el	8962 Jul 18 03.27 8962 Aug 05 22:28	4 \$3930 0°Ω	27 30 10	morning max el	8963 Jul 30 14.21 8963 Jul 11 02:01	17 п 2424 0° ©	2/404/
morning set	8962 Aug 20 15:50	27° Ω 03'38			8963 Jul 29 18:33	0°N	
morning sec	8962 Aug 22 01:54	0° mp		morning set	8963 Aug 04 10:39	10° Ω 51'28	
asc. node	8962 Aug 22 16:39	1° m)17'21		max. Earth dist.	8963 Aug 09 09:52	21° Ω 02'17	1.32735 AU
max. Earth dist.	8962 Aug 26 08:24	9° ₯ 07'45	1.31927 AU	asc. node	8963 Aug 09 13:35	21° Ω 21′50	
superior conj	8962 Aug 28 01:57	12° m 55'02	0°52'13	superior conj	8963 Aug 12 08:32	27° Ω 18'45	0°27'50
minimum elong	8962 Aug 27 23:54	12° m 43'48	0°51'45	minimum elong	8963 Aug 12 07:14	27° Ω 11'47	0°27'26
evening rise	8962 Sep 03 20:43	27° Mp 46'08			8963 Aug 13 14:24	0° ™	
	8962 Sep 04 21:50	0∘ ⊽		evening rise	8963 Aug 19 08:15	12°Mp24'59	
	8962 Sep 21 19:45	0°M₊			8963 Aug 28 04:56	0∘ ত	
desc. node	8962 Sep 26 02:56	5°M25'36		evening max el	8963 Sep 10 23:34	19° Ω 13'15	23°02'53
evening max el	8962 Sep 29 12:36	9°M00'52	24°41'48	desc. node	8963 Sep 13 00:03	21° Ω 02'58	
retrograde	8962 Oct 13 07:53	15°M57'22		retrograde	8963 Sep 24 07:36	25° £ 52'50	
evening set	8962 Oct 18 17:01	14°M52'41	0.56716 ATT	evening set	8963 Sep 28 04:56	25° £ 19'46 22° £ 03'48	0.55205 ATT
min. Earth dist. inferior conj	8962 Oct 23 23:43 8962 Oct 26 15:35	12°M06'27 10°M24'09	0.56716 AU 5°32'00	min. Earth dist. inferior conj	8963 Oct 05 08:27 8963 Oct 06 21:14	22° 2 203′48 21° 2 10′36	0.55295 AU
minimum elong	8962 Oct 26 19:07	10°M18'28		minimum elong	8963 Oct 06 21:14 8963 Oct 06 17:16	21° ⊆ 16'20	
morning rise	8962 Nov 03 23:27	6°M19'09	3 31 33	morning rise	8963 Oct 15 07:38	17° Ω 20'48	3 31 30
direct	8962 Nov 06 12:20	6°M01'24		direct	8963 Oct 18 08:20	16° ⊆ 59'10	
morning max el	8962 Nov 16 00:12	10°M31'43	19°25'59	morning max el	8963 Oct 29 09:31	22° Ω 10'17	20°42'33
asc. node	8962 Nov 18 16:26	13°M25'09			8963 Nov 04 22:12	0° M	
	8962 Nov 29 00:38	0° ∡ ¹		asc. node	8963 Nov 05 13:24	0°M56'00	
morning set	8962 Dec 03 05:02	8° ≯ 12'51		morning set	8963 Nov 17 12:24	22°M54'00	
					8963 Nov 20 22:25	0°⊀	
superior conj	8962 Dec 11 05:50	24° ₹ 15'10	1°20'53				
minimum elong	8962 Dec 11 08:44	24° ₹ 29'18	1°20'50	superior conj	8963 Nov 24 23:08	8° ₹ 19'55	1°34'22
may Earth dist	8962 Dec 14 05:21 8962 Dec 17 16:15	0°중 6°중26'52	1 20026 ATT	minimum elong	8963 Nov 25 00:55 8963 Nov 30 00:08	8° 🗷 29'03	1°34'29
max. Earth dist. evening rise	8962 Dec 17 16:15 8962 Dec 21 09:42	13° る 26'32	1.38026 AU	max. Earth dist. evening rise	8963 Nov 30 00:08 8963 Dec 03 22:42	18° ₹ 23'46 25° ₹ 52'20	1.35966 AU
desc. node	8962 Dec 23 01:45	16°පි02'22		evening rise	8963 Dec 06 05:00	23 × 32 20	
dese. node	8962 Dec 31 13:25	0°≈		desc. node	8963 Dec 09 22:46	° පි33'54	
	8963 Jan 22 11:11	0°) €			8963 Dec 25 00:59	0° ≈	
evening max el	8963 Jan 25 22:04	3°) 38′23	25°04'33	evening max el	8964 Jan 08 11:13	17° ≈ 25'22	26°11'59
retrograde	8963 Feb 06 20:05	10°) 33′23		retrograde	8964 Jan 21 04:58	24° ≈ 38'57	
evening set	8963 Feb 12 13:11	8° 升 10′57		evening set	8964 Jan 27 10:14	22° ≈ 07'31	
asc. node	8963 Feb 14 15:31	6° ∺ 06'19		min. Earth dist.	8964 Jan 31 15:00	17° ≈ 42'58	0.66792 AU
min. Earth dist.	8963 Feb 17 00:27	3°) 11′55	0.67751 AU	asc. node	8964 Feb 01 12:37	16° ≈ 36'39	
inferior conj	8963 Feb 18 03:52	1°) 42′09	1°07'48	inferior conj	8964 Feb 02 05:59	15°≈42'56	0°14'22
minimum elong	8963 Feb 18 02:20	1°) (47'11	1°07'20	minimum elong	8964 Feb 02 05:36	15°≈44'07	0°14'23
morning rise	8963 Feb 19 11:33 8963 Feb 23 15:48	30°R≈ 25°≈46'07		transit middle transit begin	8964 Feb 02 05:36 8964 Feb 02 04:19	15°≈44'07 15°≈48'04	0°14'23
direct	8963 Feb 27 05:44	23 ≈40 07 24°≈32'26		transit end	8964 Feb 02 06:52	15°≈40'10	
morning max el	8963 Mar 06 10:24	28° ≈ 31'49	19°30'15	morning rise	8964 Feb 08 01:41	9°≈56'18	
morning man er	8963 Mar 07 20:09	0° ∀	1, 30 10	direct	8964 Feb 11 04:31	9° ≈ 01'07	
greatest brilliancy	8963 Mar 19 04:04	15°) 13′03	-0.7m	morning max el	8964 Feb 17 20:14	12° ≈ 37'24	18°39'48
desc. node	8963 Mar 21 01:34	18°) €02'15			8964 Mar 01 15:07	0°) €	
	8963 Mar 28 22:35	0 ° \mathbf{Y}		desc. node	8964 Mar 06 22:27	8° ¥ 16′12	
morning set	8963 Mar 31 11:14	3° Y 53'08		morning set	8964 Mar 10 01:32	13°) (11′04	
max. Earth dist.	8963 Apr 12 20:21	23° Y 11'00	1.44766 AU		8964 Mar 20 18:55	0° Υ	
	0000	00000	201117	max. Earth dist.	8964 Mar 25 13:54	7° Ƴ 29'48	1.45482 AU
superior conj	8963 Apr 16 23:07	29° Y 43'44			006434 26 27 25	00000	105400
minimum elong	8963 Apr 16 20:39	29° Y 33'51	2°11′15	superior conj	8964 Mar 26 07:37	8° Y 39'11	
avaning rise	8963 Apr 17 03:11	0° と 22° と 39'50		minimum elong	8964 Mar 25 22:55	8° Ƴ 05'05 0° ႘	1°53'24
evening rise	8963 Apr 30 22:44 8963 May 05 07:50	0° Ⅱ		evening rise	8964 Apr 08 20:04 8964 Apr 10 19:22	3° 8 08'53	
asc. node	8963 May 13 14:12	13° Ⅱ 17'18		greatest brilliancy	8964 Apr 18 13:45	15° 8 33'30	-0.9m
evening max el	8963 May 19 15:24		18°15'41	5. carost offinancy	8964 Apr 28 05:48	0°II	V., 111
retrograde	8963 May 26 00:37	24° Ⅲ 24'15	-	asc. node	8964 Apr 29 11:18	1° Ⅱ 34'27	
evening set	8963 May 28 23:40	23° II 37'07		evening max el	8964 May 02 02:56	4°Ⅱ34′08	18°44'19
inferior conj	8963 Jun 03 22:44	18° Ⅱ 14'44	3°03'44	retrograde	8964 May 08 18:00	8° Ⅱ 13'00	

evening set	8964 May 12 00:40	7° Ⅱ 11'34		evening rise	8965 Mar 21 18:26	12° Y '48'40	
inferior conj	8964 May 17 15:28	1° Ⅱ 32'47	3°19'40		8965 Apr 01 22:45	9° 8	
minimum elong	8964 May 17 16:09	1° Ⅱ 30'41	3°19'24	greatest brilliancy	8965 Apr 03 14:55	2° 8 31'03	-0.7m
	8964 May 18 21:26	30° ₹ 8		evening max el	8965 Apr 15 10:25	18° 8 12'26	19°29'51
min. Earth dist.	8964 May 19 12:34	29° 8 13'45	0.65559 AU	asc. node	8965 Apr 16 08:25	19° 8 05'46	
morning rise	8964 May 23 06:56	25° 8 14'18		retrograde	8965 Apr 22 15:15	22° 8 18'02	
direct	8964 May 29 19:03	22° 8 28'06		evening set	8965 Apr 26 06:07	21° 8 01'31	
desc. node	8964 Jun 02 22:18	23° 8 24'34		inferior conj	8965 May 01 15:53	15° 8 07'44	3°20'22
	8964 Jun 11 17:23	Π $^{\circ}0$		minimum elong	8965 May 01 15:21	15° 8 09'29	3°20'10
morning max el	8964 Jun 12 00:50	0° Ⅱ 18'44	26°52'56	min. Earth dist.	8965 May 02 21:54	13° 8 28'58	0.66958 AU
	8964 Jul 04 01:36	0		morning rise	8965 May 07 00:14	8° 8 49'09	
morning set	8964 Jul 17 19:08	24° © 07'10		direct	8965 May 13 02:32	6° 8 07'09	
	8964 Jul 20 19:37	$0^{\circ}\Omega$		desc. node	8965 May 20 19:16	9° 8 21'11	
max. Earth dist.	8964 Jul 22 01:37	2° Ω 29'35	1.34043 AU	morning max el	8965 May 25 10:47	13° 8 30'32	25°41'16
					8965 Jun 07 19:16	Π °0	
superior conj	8964 Jul 26 09:28	11° Ω 22'12	-0°00'27		8965 Jun 26 19:51	0	
minimum elong	8964 Jul 26 09:30	11° Ω 22'24	0°00'38	morning set	8965 Jun 30 13:23	6° ॐ 40′16	
behind sun begin	8964 Jul 26 03:48	10° Ω 52'39		max. Earth dist.	8965 Jul 04 06:44	13° © 36'28	1.35815 AU
behind sun end	8964 Jul 26 15:12	11° Ω 52'11					
asc. node	8964 Jul 26 10:32	11° Ω 27'46		superior conj	8965 Jul 10 02:06	24° © 58'20	-0°31'36
evening rise	8964 Aug 02 18:27	26° Ω 56'38		minimum elong	8965 Jul 10 04:00	25° © 07'53	0°31'27
	8964 Aug 04 05:40	O°Mp			8965 Jul 12 13:39	0 $^{\circ}$ Ω	
evening max el	8964 Aug 22 16:06	29° My 32'42	21°27'04	asc. node	8965 Jul 13 07:32	1° Ω 31'22	
	8964 Aug 23 03:23	0∘ ⊽		evening rise	8965 Jul 18 01:14	11° Ω 15′21	
desc. node	8964 Aug 29 21:11	4° £ 35′23			8965 Jul 27 23:29	0° ™	
retrograde	8964 Sep 03 21:06	5° ≙ 35'57		evening max el	8965 Aug 04 20:53	10° Mp 28'20	20°06'28
evening set	8964 Sep 06 10:20	5° £ 21'02		retrograde	8965 Aug 15 10:24	15° M 41'47	
inferior conj	8964 Sep 15 14:46	1° ≏ 23'48	-4°36'13	desc. node	8965 Aug 16 18:18	15° m 37'09	
minimum elong	8964 Sep 15 05:20	1° ≙ 37'00	4°33'56	evening set	8965 Aug 17 08:29	15°M 32'12	
min. Earth dist.	8964 Sep 15 16:48	1° ≙ 20'56	0.54670 AU	inferior conj	8965 Aug 26 09:51	11° m 33'20	-2°54'36
	8964 Sep 18 03:35	30°R Mp		minimum elong	8965 Aug 26 02:01	11° m 45'00	2°51'56
morning rise	8964 Sep 24 01:11	27° m 32'55		min. Earth dist.	8965 Aug 28 02:53	10° m 32'14	0.54999 AU
direct	8964 Sep 27 17:25	27° Mp 03'36		morning rise	8965 Sep 03 18:19	7° Mp 21'20	
	8964 Oct 06 12:03	0∘ ⊽		direct	8965 Sep 08 04:42	6° Mp 38′44	
morning max el	8964 Oct 10 06:13	3° ჲ 00'37	22°18'37	morning max el	8965 Sep 21 19:13	13° Mp 18'36	24°04'47
asc. node	8964 Oct 22 10:22	19° ≙ 14'53			8965 Oct 04 15:34	0∘ ⊽	
	8964 Oct 28 05:00	0°M₊		asc. node	8965 Oct 09 07:20	8° £ 10′12	
morning set	8964 Oct 31 22:52	7° M 41'54		morning set	8965 Oct 16 10:39	22° ≏ 31'31	
					8965 Oct 19 21:42	0° M	
superior conj	8964 Nov 08 00:49	22°M47'24	1°40'25				
minimum elong	8964 Nov 08 01:19	22°M50'02	1°40'36	superior conj	8965 Oct 23 08:06	7° ™ 29'25	1°39'51
	8964 Nov 11 11:38	0° ∡ 7		minimum elong	8965 Oct 23 07:24	7° M 25'41	1°39'58
max. Earth dist.	8964 Nov 11 15:01	0° ∡ 17'19	1.34224 AU	max. Earth dist.	8965 Oct 25 14:22	12° M 22'31	1.32900 AU
evening rise	8964 Nov 16 03:01	9° ₰ 16'56		evening rise	8965 Oct 30 18:59	23°M12'22	
desc. node	8964 Nov 25 19:48	26° ≯ 51'58			8965 Nov 03 05:44	0° ∡	
	8964 Nov 27 17:02	8°0		desc. node	8965 Nov 12 16:54	16° ₹ 50'18	
	8964 Dec 19 22:28	0° ≈			8965 Nov 21 09:27	0° ろ	
evening max el	8964 Dec 21 00:35	1° ≈ 04'07	27°02'06	evening max el	8965 Dec 03 12:55	14° る 23'15	27°27'42
retrograde	8965 Jan 03 08:03	8° ≈ 24'45		retrograde	8965 Dec 17 04:30	21° る 42'34	
evening set	8965 Jan 10 00:04	5° ≈ 49'27		evening set	8965 Dec 24 04:14	19° る 10'27	
min. Earth dist.	8965 Jan 13 23:12	1°≈58'52	0.65475 AU	min. Earth dist.	8965 Dec 27 22:46	15° る 51'53	0.63827 AU
	8965 Jan 15 17:06	30°Ŗ₹		inferior conj	8965 Dec 30 12:42	13° る 12'54	
inferior conj	8965 Jan 16 01:46	29° ප 35'15		minimum elong	8965 Dec 30 16:18	13° る 03'37	1°52'45
minimum elong	8965 Jan 16 03:08	29° る 31'22	0°46'00	asc. node	8966 Jan 05 06:47	8° る 20'26	
asc. node	8965 Jan 18 09:43	27° る 02'39		morning rise	8966 Jan 06 06:12	7° る 53'00	
morning rise	8965 Jan 22 07:28	24° る 00'25		direct	8966 Jan 08 16:32	7° る 23'46	
direct	8965 Jan 25 00:59	23° る 20'07		morning max el	8966 Jan 15 04:34	10° る 46'09	17°49'15
morning max el	8965 Jan 31 11:13	26° る 44'30	18°05'55		8966 Jan 28 06:39	0° ≈	
	8965 Feb 03 08:18	0° ≈		morning set	8966 Jan 31 19:24	6° ≈ 01'53	
morning set	8965 Feb 18 20:39	23° ≈ 56′02		desc. node	8966 Feb 08 16:16	19° ≈ 21′07	
desc. node	8965 Feb 21 19:20	28° ≈ 43'52					
	8965 Feb 22 14:06	0°) €		superior conj	8966 Feb 13 14:15	27° ≈ 26'53	
				minimum elong	8966 Feb 13 10:20	27° ≈ 10′59	0°34'47
superior conj	8965 Mar 05 14:38	17°) € 37′29	-1°19'03		8966 Feb 15 04:00	0°) €	
minimum elong	8965 Mar 05 05:55	17°) €03'07	1°17'57	max. Earth dist.	8966 Feb 19 04:41	6°) €27'08	1.44708 AU
max. Earth dist.	8965 Mar 08 09:32	22°) €00′28	1.45461 AU	evening rise	8966 Mar 01 06:13	22° 米 08′50	
	8965 Mar 13 12:20	0 ° Υ			8966 Mar 06 09:55	0° Υ	

	8966 Mar 27 18:45	0° ႘		max. Earth dist.	8967 Feb 01 20:26	20° ≈ 31'48	1.43302 AU
evening max el	8966 Mar 29 12:34	1° 8 52'26	20°30'11	man. Bartir digt.	8967 Feb 07 18:39	0° ∀	15502110
asc. node	8966 Apr 03 05:32	5° 8 38'01		evening rise	8967 Feb 08 21:50	1°) (46'24	
retrograde	8966 Apr 06 13:50	6° 8 34'11		8	8967 Feb 27 22:28	0°Υ	
evening set	8966 Apr 10 13:51	5° 8 02'16		evening max el	8967 Mar 12 09:10	15° Y '33'36	21°42'06
8	8966 Apr 15 02:17	30° ₹ Υ		retrograde	8967 Mar 21 11:52	20° Y ′57'03	
inferior conj	8966 Apr 15 21:17	28° Y 55'15	3°08'44	asc. node	8967 Mar 21 02:39	20° Y 56'19	
minimum elong	8966 Apr 15 19:48	29° Ƴ 00'19	3°08'26	evening set	8967 Mar 25 22:04	19° Y ′09'53	
min. Earth dist.	8966 Apr 16 13:10	28° Ƴ 00'47	0.67904 AU	inferior conj	8967 Mar 31 05:23	12° Y ′52'02	2°46'40
morning rise	8966 Apr 21 01:32	22° Y 38'56		minimum elong	8967 Mar 31 03:19	12° Y 59'14	2°46'10
direct	8966 Apr 26 15:13	20° Ƴ 10′17		min. Earth dist.	8967 Mar 31 08:18	12° Y '41'52	0.68400 AU
desc. node	8966 May 07 16:15	26° Ƴ 42'45		morning rise	8967 Apr 05 08:25	6° Ƴ 39'31	
morning max el	8966 May 07 20:02	26° Ƴ 52'17	24°15'32	direct	8967 Apr 10 08:19	4° Y 29'58	
	8966 May 10 17:49	9° 8		morning max el	8967 Apr 20 06:26	10° Y 21'54	22°45'45
	8966 Jun 01 09:56	Π $^{\circ}0$		desc. node	8967 Apr 24 13:12	15° Y ′06′11	
morning set	8966 Jun 12 12:24	18° Ⅱ 17'15			8967 May 05 18:20	0°8	
max. Earth dist.	8966 Jun 16 04:38	24° Ⅱ 46'35	1.37941 AU	morning set	8967 May 24 10:54	28° 8 45'12	
	8966 Jun 19 01:27	0			8967 May 25 05:01	0°П	
				max. Earth dist.	8967 May 29 01:37	6° Ⅱ 29'30	1.40202 AU
superior conj	8966 Jun 23 07:01	7° © 57'58				🗨	
minimum elong	8966 Jun 23 11:04	8° © 17'22	1°03'29	superior conj	8967 Jun 05 20:06	20° Ⅱ 11'24	
asc. node	8966 Jun 30 04:32	21° © 28'09		minimum elong	8967 Jun 06 01:51	20° ∏ 37'35	1°34'05
evening rise	8966 Jul 02 02:00	25°©13'26			8967 Jun 11 03:15	0.2 0.2	
	8966 Jul 04 12:24	0°N	1000 (10 (evening rise	8967 Jun 15 17:36	8°542'43	
evening max el	8966 Jul 18 14:43	22° Ω 08'47	19°06'06	asc. node	8967 Jun 17 01:33	11°5514'04	
retrograde	8966 Jul 27 12:33	26° Ω 33'48			8967 Jun 28 00:14	0°Ω	10027142
evening set	8966 Jul 29 10:02	26° £ 22'37		evening max el	8967 Jul 01 18:53	4°Ω30'20	18°26'42
desc. node	8966 Aug 03 15:26	24° Ω 13'10	0050142	retrograde	8967 Jul 09 09:28	8° Ω 18'32	
inferior conj	8966 Aug 06 19:48	22° Ω 09'29 22° Ω 13'51	-0°58'43 0°57'54	evening set	8967 Jul 11 13:01 8967 Jul 19 03:07	8°Ω01'12 3°Ω28'34	0°42'37
minimum elong min. Earth dist.	8966 Aug 06 17:15 8966 Aug 09 16:30	22 δ (13 31 20° Ω 12'47	0.56223 AU	inferior conj minimum elong	8967 Jul 19 03:07 8967 Jul 19 04:36	3°Ω25'35	0°42'57
morning rise	8966 Aug 14 21:27	$17^{\circ}\Omega 21'55$	0.36223 AU	desc. node	8967 Jul 19 04.36 8967 Jul 21 12:31	1° Ω 33'23	0 41 32
direct	8966 Aug 20 03:28	16° Ω 17'46		min. Earth dist.	8967 Jul 22 11:43	0°Ω48'26	0.58109 AU
morning max el	8966 Sep 03 08:04	23° Ω 32'45	25°45'20	iiiii. Lartii dist.	8967 Jul 23 13:59	30°RS	0.36107 AC
morning max ci	8966 Sep 09 04:15	0° m	23 43 27	morning rise	8967 Jul 26 16:42	28° © 04'33	
asc. node	8966 Sep 26 04:17	27° mp 32'01		direct	8967 Aug 01 16:54	26°\$30'56	
use. Hode	8966 Sep 27 09:53	0ಂ ರ		ancet	8967 Aug 11 02:40	0° Ω	
morning set	8966 Sep 30 21:57	7° £ 17'06		morning max el	8967 Aug 16 02:13		27°03'45
	., ., ., ., ., ., ., ., ., ., ., ., ., .	,, ,			8967 Sep 03 22:35	0° m)	_,
superior conj	8966 Oct 07 18:36	22° ≏ 18'05	1°33'19	asc. node	8967 Sep 13 01:14	17° m) 13'08	
minimum elong	8966 Oct 07 17:00	22° ≏ 09'16	1°33'16	morning set	8967 Sep 15 07:09	21° m 53'59	
max. Earth dist.	8966 Oct 08 20:24	24° ≏ 40'24	1.32027 AU	C	8967 Sep 19 01:08	0∘ ⊽	
	8966 Oct 11 06:53	0° M ₊			•		
evening rise	8966 Oct 14 19:21	7° M 29'11		superior conj	8967 Sep 22 06:22	7° ≏ 07'28	1°21'19
	8966 Oct 26 16:49	0°⊀		minimum elong	8967 Sep 22 04:14	6° ≏ 55'37	1°21'03
desc. node	8966 Oct 30 14:00	6° ∡ 19'46		max. Earth dist.	8967 Sep 22 05:53	7° ჲ 04'49	1.31618 AU
evening max el	8966 Nov 15 21:46	27° ∡ 08′22	27°22'52	evening rise	8967 Sep 29 01:32	22° ჲ 00'23	
	8966 Nov 19 05:33	0° ප			8967 Oct 02 22:26	0° M	
retrograde	8966 Nov 29 17:40	4° る 22'40		desc. node	8967 Oct 17 11:06	25°M09'03	
evening set	8966 Dec 06 19:32	2° る 02'44			8967 Oct 20 23:19	0° ∡	
	8966 Dec 09 13:04	30°R ✓		evening max el	8967 Oct 29 00:31	9° ∡ 07'54	26°44'14
min. Earth dist.	8966 Dec 10 12:01	29° ∡ 10'44	0.61899 AU	retrograde	8967 Nov 11 22:35	16° ∡ 16′20	
inferior conj	8966 Dec 13 11:39	26° ₹ 27'31		evening set	8967 Nov 18 17:54	14° ∤ 19'20	
minimum elong	8966 Dec 13 17:37	26° ≯ 13'51	3°03'31	min. Earth dist.	8967 Nov 22 14:33	11° ⊀ '42'49 −	0.59810 AU
morning rise	8966 Dec 20 18:00	21° ₹ 25'59		inferior conj	8967 Nov 25 19:10	9° ∡ 10′02	
direct	8966 Dec 22 23:42	21° х 04'13		minimum elong	8967 Nov 26 02:38	8° 🗷 55'05	4°13'03
asc. node	8966 Dec 23 03:50	21° × 704'21	17050122	morning rise	8967 Dec 03 13:53	4° ₹ 29'50	
morning max el	8966 Dec 29 21:08	24° ₹ 33'51	17°50'33	direct	8967 Dec 05 18:21	4° ₹ 12'12	
	8967 Jan 03 07:39	0°る		asc. node	8967 Dec 10 00:53	5°×23'16	10010157
morning set	8967 Jan 14 15:26 8967 Jan 20 17:34	19°る08'05 0°≈		morning max el	8967 Dec 13 09:27 8967 Dec 27 13:06	7°矛58'14 0°る	10 103/
	0901 Jan 20 17:34	U 🌤		morning ast		0°る 2°る56'01	
superior conj	8967 Jan 25 14:56	8° ≈ 29'02	0°06'55	morning set	8967 Dec 29 02:36	2 O3001	
minimum elong	8967 Jan 25 15:35	8°≈29'02 8°≈31'49	0°06'55 0°07'01	superior conj	8968 Jan 07 15:43	20° る 39'25	0°42'31
behind sun begin	8967 Jan 25 07:46	8 ≈31 49 7°≈58'25	0 0/01	minimum elong	8968 Jan 07 18:40	20 3 3923	0°42'19
behind sun end	8967 Jan 25 23:24	9°≈05'08			8968 Jan 12 22:56	20 3 32 39 0° ≈	0 1217
desc. node	8967 Jan 26 13:14	10°≈03'55		desc. node	8968 Jan 13 10:10	0 ∞ 0°≈48'18	
dose. Houc	550, 5an 20 15.17	10 /000 00		dese. Hode	5700 Juli 13 10.10	U 7 √ 10 10	

T d F d	00/01 15 0/ 52	2050125	1 41415 ATT		00(0 D 21 11 25	220=22010	
max. Earth dist.	8968 Jan 15 06:53		1.41415 AU	evening rise	8968 Dec 31 11:25	23° る 32'18	
evening rise	8968 Jan 20 05:45	12°≈10'07			8969 Jan 04 08:15	0° ≈	
	8968 Jan 31 17:32	0° ∀			8969 Jan 24 13:41	0° ∀	
evening max el	8968 Feb 23 01:22		23°01'02	evening max el	8969 Feb 04 15:17	13° ∺ 03'42	24°20'56
	8968 Feb 23 18:59	0 ° Υ		retrograde	8969 Feb 15 23:52	19°) (42′54	
retrograde	8968 Mar 04 07:38	5° Y 21′22		evening set	8969 Feb 21 09:38	17° ∺ 27'37	
asc. node	8968 Mar 06 23:46	4° Y 46'06		asc. node	8969 Feb 21 20:52	17°)(02'41	
evening set	8968 Mar 09 05:10	3° Y 19'32		min. Earth dist.	8969 Feb 26 01:11	12° ₩ 08'25	0.68127 AU
Ç	8968 Mar 12 07:07	30° ₽ ₩		inferior conj	8969 Feb 26 21:54	10°) 58'48	1°34'55
min. Earth dist.	8968 Mar 14 05:04	27°) 25'46	0.68466 AU	minimum elong	8969 Feb 26 19:58	11° X 05'20	1°34'18
inferior conj	8968 Mar 14 14:12	26°) 54'11	2°15'11	morning rise	8969 Mar 04 06:22	4°) 57'56	1 34 10
,				•			
minimum elong	8968 Mar 14 11:58	27°) (01'54	2°14'33	direct	8969 Mar 08 03:24	3°) (32'07	2000000
morning rise	8968 Mar 19 18:40	20°) (46′42		morning max el	8969 Mar 15 18:56	7° ¥ 50'38	20°06'22
direct	8968 Mar 24 04:46	18° ¥ 58'58		desc. node	8969 Mar 28 07:01	23° ¥ 53′56	
morning max el	8968 Apr 01 21:05	24° ∺ 00′20	21°20'34		8969 Apr 01 10:51	0° Y	
	8968 Apr 07 03:38	0 ° Υ		morning set	8969 Apr 12 05:56	16° Y 22′03	
desc. node	8968 Apr 10 10:07	4° Ƴ 13'52			8969 Apr 20 23:06	0°8	
	8968 Apr 28 03:18	0° ႘		max. Earth dist.	8969 Apr 22 12:29	2° 8 28'49	1.44048 AU
morning set	8968 May 03 06:06	7° と 58'09					
max. Earth dist.	8968 May 10 03:17	19° 8 02'42	1.42325 AU	superior conj	8969 Apr 28 05:01	11° 8 40'41	-2°11'48
	8968 May 16 16:10	0°II		minimum elong	8969 Apr 28 06:33	11° 8 47'00	2°11'56
		-			8969 May 09 02:59	0°II	
superior conj	8968 May 17 12:38	1° Ⅱ 27'47	1°50'10	evening rise	8969 May 11 04:27	3° П 32'42	
	•	1° П 2/4/		•	,	19° ∏ 51'17	
minimum elong	8968 May 17 18:10		1-38-39	asc. node	8969 May 20 19:35		
evening rise	8968 May 28 19:57	21° Ⅱ 32'29			8969 May 28 03:50	0∘ ©	
asc. node	8968 Jun 02 22:33	0°5643'39		evening max el	8969 May 28 18:47	0°\$38'23	18°07'20
	8968 Jun 02 12:41	0		retrograde	8969 Jun 04 04:24	3° © 58'48	
evening max el	8968 Jun 14 05:26	17° © 23'18	18°07'26	evening set	8969 Jun 06 23:19	3° © 19'19	
retrograde	8968 Jun 21 00:02	20° © 49'57			8969 Jun 11 08:58	30°Ŗ Ⅱ	
evening set	8968 Jun 23 11:20	20° © 22'48		inferior conj	8969 Jun 13 04:51	28° Ⅲ 07'15	2°46'03
inferior conj	8968 Jun 30 07:18	15° © 29'58	1°57'32	minimum elong	8969 Jun 13 07:26	28° Ⅱ 00′24	2°45'16
minimum elong	8968 Jun 30 10:14	15° 5 23'08	1°56'25	min. Earth dist.	8969 Jun 16 01:09	25° Ⅲ 07′27	0.62563 AU
min. Earth dist.	8968 Jul 03 14:09	12° © 27'57	0.60329 AU	morning rise	8969 Jun 19 13:46	21° ∏ 59'14	
morning rise	8968 Jul 07 06:20	9° © 38'38		desc. node	8969 Jun 24 06:40	19° ∏ 43'23	
desc. node	8968 Jul 07 09:36	9° © 33'33		direct	8969 Jun 26 07:47	19° Ⅱ 30′03	
direct	8968 Jul 13 19:17	7° 9 34'05		morning max el	8969 Jul 10 09:30	27° I I32'27	27°53'52
morning max el	8968 Jul 28 03:02	15° © 30'29	27°47'56	morning max or	8969 Jul 12 17:35	0°95	27 33 32
morning max ci	8968 Aug 08 22:17	0°Ω	27 47 30		8969 Aug 02 15:53	0°N	
		0°Mp		morning sat	-	20° Ω 19'37	
. ,	8968 Aug 26 10:26	•		morning set	8969 Aug 13 11:50		
morning set	8968 Aug 29 12:29	6° TQ 16'55		asc. node	8969 Aug 16 19:04	27° Ω 09'30	
asc. node	8968 Aug 29 22:09	7° TQ 07'23			8969 Aug 18 03:11	0° m	
max. Earth dist.	8968 Sep 04 15:16	19° Mp 26′27	1.31674 AU	max. Earth dist.	8969 Aug 18 20:44	1° mp 34'05	1.32212 AU
superior conj	8968 Sep 05 17:37	21° m 51'56	1°04'14	superior conj	8969 Aug 21 02:29	6° Mp 25'15	0°42'24
minimum elong	8968 Sep 05 15:23	21° m 39'38	1°03'49	minimum elong	8969 Aug 21 00:41	6° Mp 15′27	0°41'56
_	8968 Sep 09 09:51	0∘ ⊽		evening rise	8969 Aug 27 22:49	21° mp 20'55	
evening rise	8968 Sep 12 11:21	6° Ω 39'45		<i>y</i>	8969 Sep 01 02:29	$0 \circ \overline{\mathbf{v}}$	
	8968 Sep 24 13:23	0°M₊		desc. node	8969 Sep 20 05:20	29° Ω 37'55	
desc. node	8968 Oct 03 08:12	13°M02'35		dese. Hode	8969 Sep 20 14:00	0° ™	
			25922140	avanina may al			24900!20
evening max el	8968 Oct 09 19:31	20°M17'30 27°M19'07	25°33'40	evening max el	8969 Sep 21 07:52	0°M44'05	24 UU 29
retrograde	8968 Oct 23 17:30			retrograde	8969 Oct 04 23:51	7°M34'28	
evening set	8968 Oct 29 18:32	25°M54'30		evening set	8969 Oct 09 18:22	6°M44'34	
min. Earth dist.	8968 Nov 03 07:50	23°M17'00	0.57760 AU	min. Earth dist.	8969 Oct 15 18:28	3° M 47'41	0.56031 AU
inferior conj	8968 Nov 06 08:02	21°M11'52		inferior conj	8969 Oct 18 00:28	2°M25'27	
minimum elong	8968 Nov 06 14:16	21°M01'00	5°10'43	minimum elong	8969 Oct 18 01:05	2°M24'31	5°38'08
morning rise	8968 Nov 14 12:21	16°M54'10			8969 Oct 22 06:48	30°Ŗ Ω	
direct	8968 Nov 16 20:25	16° ™ 37′23		morning rise	8969 Oct 26 09:49	28° ≏ 27'56	
morning max el	8968 Nov 25 13:47	20°M49'20	18°52'10	direct	8969 Oct 29 03:18	28° ≏ 08'48	
asc. node	8968 Nov 25 21:54	21°M09'13			8969 Nov 04 11:14	0° M	
	8968 Dec 02 14:56	0° ∡ 7		morning max el	8969 Nov 08 06:33	2°M55'44	19°55'50
morning set	8968 Dec 12 00:15	17° √ 12'44		asc. node	8969 Nov 12 18:54	8°M06'11	
	8968 Dec 18 13:01	0°පි			8969 Nov 25 07:39	0° ⊼	
	5,00 Dec 10 15.01	ÿ O		morning set	8969 Nov 26 04:51	0 ≯ 1° ₹ 747'14	
superior conj	8968 Dec 20 12:03	3° ⋜ 45'17	1000123	morning set	3707 NOV 20 04.31	1 7 4/14	
		3 04317 4° る 00'47		superior coni	8060 Dag 02 22:54	17° ∡ ³31'44	1027124
minimum elong	8968 Dec 20 15:19			superior conj	8969 Dec 03 22:54		
max. Earth dist.	8968 Dec 27 13:25	16°る43'47	1.39275 AU	minimum elong	8969 Dec 04 01:23	17° 🗷 44'04	1°27'36
desc. node	8968 Dec 30 07:08	21° る 31'08		max. Earth dist.	8969 Dec 09 19:44	28° ≯ 54'25	1.37124 AU

	8969 Dec 10 09:44	0°ප		superior conj	8970 Nov 17 20:11	1° ∡ ′47′21	1°37'47
evening rise	8969 Dec 13 13:54	5° ⋜ 48'44		minimum elong	8970 Nov 17 21:26	1° х 53'47	1°37'57
desc. node	8969 Dec 17 04:07	12° る 07'52		max. Earth dist.	8970 Nov 22 06:28	10° ∡ ¹48'30	1.35183 AU
	8969 Dec 28 06:09	0° ≈		evening rise	8970 Nov 26 09:53	18° ∡ ′51′03	
evening max el	8970 Jan 18 04:33	26°≈52'09	25°34'57	C	8970 Dec 02 13:19	ರ°ರ	
Č	8970 Jan 21 16:50	0° ∀		desc. node	8970 Dec 04 01:08	2° ට 34'11	
retrograde	8970 Jan 30 11:28	3° ¥ 55'44			8970 Dec 22 09:37	0° ≈	
evening set	8970 Feb 05 09:52	1° ∺ 29'11		evening max el	8970 Dec 31 17:49	10° ≈ 36′22	26°35'47
	8970 Feb 06 23:41	30° R ≈		retrograde	8971 Jan 13 17:47	17° ≈ 53'41	
asc. node	8970 Feb 08 18:00	28° ≈ 00'16		evening set	8971 Jan 20 04:05	15° ≈ 19'40	
min. Earth dist.	8970 Feb 09 18:21	26° ≈ 44'47	0.67392 AU	min. Earth dist.	8971 Jan 24 06:18	11° ≈ 09'59	0.66279 AU
inferior conj	8970 Feb 11 02:36	25°≈01'45	0°46'09	inferior conj	8971 Jan 26 02:17	8° ≈ 59'00	-0°10'43
minimum elong	8970 Feb 11 01:29	25°≈05'19	0°45'52	minimum elong	8971 Jan 26 02:34	8° ≈ 58'09	0°10'23
morning rise	8970 Feb 16 17:32	19° ≈ 09'20		transit middle	8971 Jan 26 02:34	8° ≈ 58'09	0°10'23
direct	8970 Feb 20 02:39	18° ≈ 03'44		transit begin	8971 Jan 26 00:20	9° ≈ 04'47	
morning max el	8970 Feb 27 00:41	21° ≈ 51'29	19°06'48	transit end	8971 Jan 26 04:47	8° ≈ 51'30	
C	8970 Mar 05 17:08	0° ∀		asc. node	8971 Jan 26 15:08	8° ≈ 20'48	
greatest brilliancy	8970 Mar 12 10:20	9°){ 47'58	-0.7m	morning rise	8971 Feb 01 02:00	3° ≈ 17'17	
desc. node	8970 Mar 15 03:54	13°) €57'15		direct	8971 Feb 04 00:42	2°≈28'50	
morning set	8970 Mar 22 08:23	25°) €01'56		morning max el	8971 Feb 10 13:03	5°≈58'22	18°23'22
C	8970 Mar 25 13:16	$_0$ ° γ		Z .	8971 Feb 27 08:14	0°) €	
max. Earth dist.	8970 Apr 05 04:12	16° Ƴ 34'59	1.45163 AU	morning set	8971 Mar 02 10:20	4°) 55′23	
	r			desc. node	8971 Mar 02 00:48	4°) €17'22	
superior conj	8970 Apr 07 22:21	20° Y 55'46	-2°06'24				
minimum elong	8970 Apr 07 16:46	20° Ƴ 33'45		superior conj	8971 Mar 18 03:39	29°) 44'58	-1°40'54
Č	8970 Apr 13 15:03	0°8		minimum elong	8971 Mar 17 18:04	29°) €07'24	1°39'59
evening rise	8970 Apr 22 14:47	14° 8 35'30			8971 Mar 18 07:30	0° Υ	
<i>8</i>	8970 May 02 01:31	0°П		max. Earth dist.	8971 Mar 18 23:21	1° Y '02'00	1.45561 AU
asc. node	8970 May 07 16:40	8° Ⅱ 29'37		evening rise	8971 Apr 03 01:32	24° Y '41'12	
evening max el	8970 May 12 07:45	14° Ⅱ 07'19	18°25'42	3	8971 Apr 06 10:32	0°8	
retrograde	8970 May 18 18:15	17° Ⅱ 35'45		greatest brilliancy	8971 Apr 13 04:20	10° 8 32'43	-0.8m
evening set	8970 May 21 20:36	16° ∏ 42'28		asc. node	8971 Apr 24 13:47	26° 8 28'39	
inferior conj	8970 May 27 15:41	11° Ⅱ 12'45	3°12'33	evening max el	8971 Apr 25 17:43	27° 8 42'58	19°01'42
minimum elong	8970 May 27 17:07	11° Ⅱ 08'32	3°12'09	<i>y</i>	8971 Apr 28 09:20	0°II	
min. Earth dist.	8970 May 29 21:29	8° Д 35'01	0.64565 AU	retrograde	8971 May 02 13:45	1° Ⅱ 32'11	
morning rise	8970 Jun 02 12:41	4°∏56'25		evening set	8971 May 05 23:48	0° ∏ 24'18	
direct	8970 Jun 09 04:31	2° Ⅱ 13'19			8971 May 06 13:31	30°R₩	
desc. node	8970 Jun 11 03:41	2° I I26'00		inferior conj	8971 May 11 12:04	24° 8 38'40	3°21'37
morning max el	8970 Jun 22 19:22	10° Ⅱ 11'30	27°23'59	minimum elong	8971 May 11 12:13	24° 8 38'12	
	8970 Jul 08 08:47	0°छ	_, _, _,	min. Earth dist.	8971 May 13 02:35	22° 8 36'08	0.66200 AU
	8970 Jul 26 01:59	$0^{\circ}\Omega$		morning rise	8971 May 17 00:07	18° 8 19'38	
morning set	8970 Jul 28 02:42	3° £ 55′27		direct	8971 May 23 08:19	15° 8 34'13	
max. Earth dist.	8970 Aug 01 18:41	13° Ω 19'11	1.33239 AU	desc. node	8971 May 29 00:42	17° 8 20'33	
asc. node	8970 Aug 03 16:00	17° Ω 15′29	1.55257110	morning max el	8971 Jun 05 06:02	23° 8 15'20	26°24'57
ase. noue	037011 ug 03 10.00	17 0010 29		morning mun vi	8971 Jun 11 05:31	0°II	20 2.07
superior conj	8970 Aug 05 07:00	20° Ω 41'52	0°16'18		8971 Jul 01 16:49	0°©	
minimum elong	8970 Aug 05 06:12	20° Ω 37'35	0°15'58	morning set	8971 Jul 11 05:42	16°954'40	
behind sun begin	8970 Aug 05 05:44	20° Ω 35'09		max. Earth dist.	8971 Jul 15 06:11	24° © 37'49	1.34747 AU
behind sun end	8970 Aug 05 06:39	20° Ω 40′02			8971 Jul 17 22:54	0°N	
	8970 Aug 09 15:03	0° m/					
evening rise	8970 Aug 12 10:06	5° m 58'25		superior conj	8971 Jul 20 04:45	4° Ω 34'29	-0°13'22
	8970 Aug 25 05:19	0∘ ⊽		minimum elong	8971 Jul 20 05:31	4°Ω38'26	
evening max el	8970 Sep 02 20:05	0 — 10° Ω 55'14	22°20'46	behind sun begin	8971 Jul 20 02:15	4°Ω21'38	0 13 20
desc. node	8970 Sep 07 02:28	14° £ 26'42	22 20 10	behind sun end	8971 Jul 20 08:48	4° Ω 55'16	
retrograde	8970 Sep 15 18:08	17° Ω 21'31		asc. node	8971 Jul 21 12:57	7° Ω 20'48	
evening set	8970 Sep 19 10:08	17 = 21 51 16° ⊆ 57'50		evening rise	8971 Jul 27 19:09	20° Ω 25'31	
min. Earth dist.	8970 Sep 27 02:20	13° ⊆ 25'04	0.54926 AU	evening rise	8971 Aug 01 12:50	0° m)	
inferior conj	8970 Sep 27 02:20	13° ⊆ 25°04		evening max el	8971 Aug 15 17:10	21° Mp 26'56	20°50'22
minimum elong	8970 Sep 27 25:37 8970 Sep 27 16:38	12 = 33 04 13° £ 04'56		desc. node	8971 Aug 24 23:37	26° m 57'22	20 30 22
morning rise	8970 Oct 06 10:16	9° £ 07'35	5 1705	retrograde	8971 Aug 27 06:28	20° mg 10'29	
direct	8970 Oct 00 10:10 8970 Oct 09 17:27	8° £ 43'09		evening set	8971 Aug 27 00:28 8971 Aug 29 10:54	26° m 59'02	
morning max el	8970 Oct 09 17.27 8970 Oct 21 10:09	8 2 43 09 14° 2 12'49	21°21'25	inferior conj	8971 Sep 07 15:57	20° my 02'26	-3°57'06
asc. node	8970 Oct 21 10:09 8970 Oct 30 15:53	25° £ 59'07	21 21 23	minimum elong	8971 Sep 07 15:37 8971 Sep 07 06:23	23° My 16'04	3°54'18
asc. nout		23° ± 39°07 0° ™		•			
morning set	8970 Nov 02 01:32	16°M32'15		min. Earth dist.	8971 Sep 08 11:07	22° Tp 35'06	0.54694 AU
morning set	8970 Nov 10 13:48			morning rise	8971 Sep 16 01:57	19° Mp 05'00	
	8970 Nov 16 23:34	0° ₹		direct	8971 Sep 20 01:21	18° Mp 31'09	22002124
				morning max el	8971 Oct 03 02:54	24° m 47'02	23 03 24

	8971 Oct 07 22:06	0∘ ⊽			8972 Aug 23 08:04	30°RΩ	
asc. node	8971 Oct 17 12:50	0 — 14° Ω 34'31		morning rise	8972 Aug 25 22:17	28° Ω 53'54	
use. Houe	8971 Oct 25 09:36	0°M		direct	8972 Aug 30 16:54	28° Ω 03'05	
morning set	8971 Oct 26 01:04	1°M21'33		ancer	8972 Sep 06 22:00	0° m)	
morning sec	0971 000 20 01.01	1 1102133		morning max el	8972 Sep 13 15:02	4° m/ 59' 55	24°49'15
superior conj	8971 Nov 02 00:36	16°M22'10	1°40'57	morning max er	8972 Oct 01 10:27	0° ⊡	24 47 13
minimum elong	8971 Nov 02 00:34	16°M22'00	1°41'07	asc. node	8972 Oct 03 09:46	∘ – 3° Ω 41'51	
max. Earth dist.	8971 Nov 05 00:51	22°M45'18	1.33603 AU	morning set	8972 Oct 09 12:48	16° Ω 09'46	
max. Earth dist.	8971 Nov 08 13:32	0° ₹	1.55005 710	morning set	8972 Oct 15 21:07	0°M	
evening rise	8971 Nov 08 13:32 8971 Nov 09 19:34	0 x 2° x 29'41			8972 Oct 13 21.07	O IIG	
desc. node	8971 Nov 09 19.34 8971 Nov 20 22:12	22° х 44'39		superior conj	8972 Oct 16 09:30	1°M07'53	1°37'47
desc. node	8971 Nov 20 22:12 8971 Nov 25 10:20	22 メ 44 39		minimum elong	8972 Oct 16 09:30 8972 Oct 16 08:23	1°M07'33	1°37'50
avanina may al	8971 Nov 23 10:20 8971 Dec 14 06:44	0 3 24° る 07'33	27016110	max. Earth dist.	8972 Oct 18 03:05	4°M54'53	1.32470 AU
evening max el			2/ 1018			16°M35'10	1.32470 AU
	8971 Dec 22 03:26	0° ≈ 1° ≈ 29'06		evening rise	8972 Oct 23 15:27	0° ⊼	
retrograde	8971 Dec 27 18:18	1°≈2906 30°Rる		JJ.	8972 Oct 30 12:58	12° ∡ 31'46	
	8972 Jan 01 22:49	• -		desc. node	8972 Nov 06 19:18		
evening set	8972 Jan 03 14:10	28°る53'48	0.64000.477		8972 Nov 19 02:26	0°る	25020112
min. Earth dist.	8972 Jan 07 11:00	25° る 17'30	0.64809 AU	evening max el	8972 Nov 25 17:49	7° る 13'39	27°29'42
inferior conj	8972 Jan 09 18:39	22° る 45'50		retrograde	8972 Dec 09 12:03	14° පි 31'56	
minimum elong	8972 Jan 09 20:55		1°13'40	evening set	8972 Dec 16 13:20	12° る 03'48	
asc. node	8972 Jan 13 12:14	19° る 02'52		min. Earth dist.	8972 Dec 20 06:30	8° る 57'20	0.63028 AU
morning rise	8972 Jan 16 05:12	17° る 17'18		inferior conj	8972 Dec 23 00:53	6° ප 14'48	
direct	8972 Jan 18 19:20	16° る 42'18		minimum elong	8972 Dec 23 05:31	6° る 03'25	2°22'33
morning max el	8972 Jan 25 05:31	20° る 04'42	17°56'45	morning rise	8972 Dec 29 23:48	1° る 02'19	
	8972 Feb 01 18:35	0° ≈		asc. node	8972 Dec 30 09:19	0° る 54'27	
morning set	8972 Feb 11 17:49	16° ≈ 16'46		direct	8973 Jan 01 07:40	0° る 36'49	
desc. node	8972 Feb 16 21:42	24° ≈ 49'38		morning max el	8973 Jan 07 22:57	4° る 01'35	17°47'31
	8972 Feb 20 01:37	0° ∀		morning set	8973 Jan 24 02:27	28°る50'38	
					8973 Jan 24 18:20	0° ≈	
superior conj	8972 Feb 25 16:02	9° ₩ 01'01	-1°01'00	desc. node	8973 Feb 02 18:37	15° ≈ 29'24	
minimum elong	8972 Feb 25 09:07	8°) 33′23	0°59'58				
max. Earth dist.	8972 Feb 29 18:51	15°) 32′12	1.45217 AU	superior conj	8973 Feb 05 01:56	19° ≈ 20′25	-0°16'57
	8972 Mar 10 01:43	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	8973 Feb 05 00:12	19° ≈ 13'11	0°16'30
evening rise	8972 Mar 12 18:07	4° Ƴ 08'07		max. Earth dist.	8973 Feb 11 12:16	29° ≈ 49′20	1.44178 AU
greatest brilliancy	8972 Mar 27 05:32	26° Ƴ 02'38	-0.6m		8973 Feb 11 14:56	0° ∀	
· ·	8972 Mar 29 23:14	0°8		evening rise	8973 Feb 20 05:35	13°) 30′47	
evening max el	8972 Apr 07 22:57	11° 8 21'56	19°53'53	C	8973 Mar 03 03:43	0° Υ	
asc. node	8972 Apr 10 10:55	13° 8 36'45		evening max el	8973 Mar 21 22:40	25° Y ′02'08	20°59'40
retrograde	8972 Apr 15 11:57	15° 8 42'28		asc. node	8973 Mar 28 08:03	29° Y 39'06	
evening set	8972 Apr 19 06:29	14° 8 19'34			8973 Mar 29 22:25	0°8	
inferior conj	8972 Apr 24 14:56	8° 8 19'49	3°16'49	retrograde	8973 Mar 30 10:25	0° 8 01'19	
minimum elong	8972 Apr 24 13:58	8° 8 23'05	3°16'36		8973 Mar 30 22:18	30°RƳ	
min. Earth dist.	8972 Apr 25 14:50	6° 8 59'30	0.67408 AU	evening set	8973 Apr 03 14:34	28° Y 23'05	
morning rise	8972 Apr 29 21:09	2° 8 01'40	,	inferior conj	8973 Apr 08 21:43	22° Υ 11'19	3°00'35
morning rise	8972 May 02 21:51	30°RY		minimum elong	8973 Apr 08 19:57	22° Υ 17'27	3°00'12
direct	8972 May 05 18:15	29° Υ 24'21		min. Earth dist.	8973 Apr 09 08:04	21° Y 35'31	0.68170 AU
direct	8972 May 08 19:24	0°8		morning rise	8973 Apr 14 01:06	15° Υ 56'19	0.00170710
desc. node	8972 May 14 21:41	3° 8 56'28		direct	8973 Apr 19 09:04	13° Y 34'58	
morning max el	8972 May 17 21:41	6° 8 32'37	25°05'56	morning max el	8973 Apr 30 00:54	19° Y 56'28	23°37'12
morning max or	8972 Jun 04 20:24	0°II	23 03 30	desc. node	8973 May 01 18:37	21° Υ 46'12	23 37 12
morning set	8972 Jun 22 16:28	29° I I05'50		desc. Hode	8973 May 08 14:16	0°8	
morning set	8972 Jun 23 04:33	0°95			8973 May 29 00:49	0°II	
max. Earth dist.	8972 Jun 26 07:18	5° 9 41'07	1.36684 AU	morning set	8973 Jun 04 05:37	10° Ⅱ 14'31	
max. Lartii dist.	0)/2 Juli 20 0/.10	3 341 07	1.50004 AC	max. Earth dist.	8973 Jun 08 03:21	16° ∏ 59'01	1.38898 AU
superior conj	8972 Jul 02 16:50	17° © 55'56	0°45'17	max. Earth dist.	8973 Jun 15 07:38	0°99	1.36696 AU
minimum elong	8972 Jul 02 16:30 8972 Jul 02 19:38	17 \$33 36 18°\$09'45			0/13 Jun 13 U/.38	υ 	
asc. node	8972 Jul 02 19:56	27°921'48	0 4501	superior conj	8973 Jun 15 15:33	0° © 37'04	1°17'20
use. Houe	8972 Jul 07 09:36 8972 Jul 08 17:10	27 €021 48 0°Ω		minimum elong	8973 Jun 15 13:33	0°959'59	
evening rise	8972 Jul 08 17:10 8972 Jul 10 23:42	0 8€ 4° Ω 36'04		asc. node	8973 Jun 24 06:57	0 \$3939 17°\$14'24	1 1031
evening 1150	8972 Jul 10 23.42 8972 Jul 25 17:16	0°Mp		evening rise	8973 Jun 24 20:56	17 9014 24 18° 9522'28	
avaning may al	8972 Jul 28 03:42		10020112	evening rise		0°Ω	
evening max el		2° Mp 41'37	19°38'13	oveniu 1	8973 Jul 01 00:12	0°37 14° Ω 41'05	10010155
retrograde	8972 Aug 06 23:58	7° Mp 33'30		evening max el	8973 Jul 11 02:29		10 40 33
evening set	8972 Aug 10 20:15	7° Mp 24'00		retrograde	8973 Jul 19 09:30	18° Ω 48'12	
desc. node	8972 Aug 10 20:45	6° Mp 53'13	2005!11	evening set	8973 Jul 21 09:18	18° Ω 34'49	
inferior conj	8972 Aug 17 16:05	3° Mp 20'29		desc. node	8973 Jul 28 17:51	14° Ω 44'41	0012155
minimum elong	8972 Aug 17 10:24	3° Mp 29'25		inferior conj	8973 Jul 29 10:48	14° Ω 13'59	
min. Earth dist.	8972 Aug 19 22:52	1~11 0 54'39	0.55421 AU	minimum elong	8973 Jul 29 10:16	14° Ω 14'57	0~12'54

4	9072 I1 20 10.16	140 0 14157	0012154		0074 I-1 05 06-41	2005	
transit middle	8973 Jul 29 10:16	14° Ω 14'57 14° Ω 18'59	0°12'54	infariar agni	8974 Jul 05 06:41	30°Rூ 25°₽50'50	1017151
transit begin	8973 Jul 29 08:04	14° Ω 10'55		inferior conj	8974 Jul 11 03:13	25°950'50	1°17'51
transit end min. Earth dist.	8973 Jul 29 12:29 8973 Aug 01 14:39	14 δ (10 33	0.56964 AU	minimum elong min. Earth dist.	8974 Jul 11 05:36 8974 Jul 14 12:21	25°545'42 22°558'47	1°16'48 0.59030 AU
morning rise	8973 Aug 01 14:39 8973 Aug 06 07:51	9°Ω10'33	0.30904 AU	desc. node	8974 Jul 14 12:21 8974 Jul 15 14:57	22°506'39	0.39030 AU
direct	8973 Aug 11 22:21	$7^{\circ}\Omega54'15$		morning rise	8974 Jul 13 14.37 8974 Jul 18 10:45	22 3 00 39 20° 5 14'11	
morning max el	8973 Aug 26 05:28	15° Ω 21'14	26°22'17	direct	8974 Jul 24 17:17	18°9527'23	
morning max ci	8973 Sep 07 01:13	0°M)	20 22 17	morning max el	8974 Aug 08 02:18	26°9515'00	2702717
asc. node	8973 Sep 07 01:13	23° m) 12'50		morning max ci	8974 Aug 11 14:59	0°Ω	2/2/1/
morning set	8973 Sep 23 23:25	0° £ 52'33			8974 Aug 31 12:41	0° m)	
morning set	8973 Sep 23 23:23	0° ⊡		asc. node	8974 Sep 07 03:36	12° m/59'53	
	0773 бер 23 13.31	° –		morning set	8974 Sep 08 07:11	15° m) 23'53	
superior conj	8973 Sep 30 20:47	15° ≏ 58'05	1°28'53	morning sec	оэт гвер оо от.11	13 11,23 33	
minimum elong	8973 Sep 30 18:54	15° Ω 47'41	1°28'44	superior conj	8974 Sep 15 08:30	0° ჲ 45'40	1°14'41
max. Earth dist.	8973 Oct 01 11:04	17° Ω 17'17	1.31800 AU	minimum elong	8974 Sep 15 06:17	0° م 33'17	1°14'21
	8973 Oct 07 07:18	0°M		max. Earth dist.	8974 Sep 14 21:10	29° m 42'40	1.31589 AU
evening rise	8973 Oct 07 18:38	0°M59'46			8974 Sep 15 00:17	0∘ ಹ	
	8973 Oct 23 12:54	0° ∡ 7		evening rise	8974 Sep 22 02:36	15° ≏ 35'07	
desc. node	8973 Oct 24 16:24	1° х 46′07			8974 Sep 29 05:51	0° M	
evening max el	8973 Nov 08 00:41	19° ∡ '41'57	27°10'40	desc. node	8974 Oct 11 13:30	20°M13'50	
retrograde	8973 Nov 21 21:49	26° ₹ 53'11			8974 Oct 19 15:34	0° ∡ ¹	
evening set	8973 Nov 28 21:59	24° ∡ ¹42′08		evening max el	8974 Oct 21 00:21	1° ∡ 20′27	26°17'43
min. Earth dist.	8973 Dec 02 15:22	21° ∡ 58′04	0.61024 AU	retrograde	8974 Nov 03 22:16	8° ∡ ¹25'14	
inferior conj	8973 Dec 05 17:45	19° ∡ 17'34	-3°36'06	evening set	8974 Nov 10 11:37	6° ∡ 741′05	
minimum elong	8973 Dec 06 00:33	19° ∡ '02'50		min. Earth dist.	8974 Nov 14 13:30	4° ∡ ¹06'34	0.58929 AU
morning rise	8973 Dec 13 05:30	14° ∡ ¹24'23		inferior conj	8974 Nov 17 17:40	1° ∡ 743'40	-4°41'46
direct	8973 Dec 15 10:11	14° ∡ 04'45		minimum elong	8974 Nov 18 01:05	1° ∡ ¹29'42	4°39'49
asc. node	8973 Dec 17 06:20	14° ∡ 19'04		Č	8974 Nov 20 02:35	30°RM₊	
morning max el	8973 Dec 22 14:06	17° ∡ ¹40′28	17°56'42	morning rise	8974 Nov 25 16:56	27° M .12'53	
	8973 Dec 31 09:05	გ∘ი		direct	8974 Nov 27 22:28	26°M55'52	
morning set	8974 Jan 07 05:38	12° る 16'56		asc. node	8974 Dec 04 03:20	29° M .16'14	
	8974 Jan 17 01:17	0° ≈			8974 Dec 05 00:58	0° ∡ ¹	
				morning max el	8974 Dec 05 23:23	0° ∡ 751′22	18°25'48
superior conj	8974 Jan 17 13:18	0° ≈ 52'37	0°23'01	morning set	8974 Dec 21 21:44	26° ∡ 18′27	
minimum elong	8974 Jan 17 15:13	1° ≈ 00'57	0°22'57		8974 Dec 23 19:54	0°ಕ	
desc. node	8974 Jan 20 15:34	6° ≈ 13'10					
max. Earth dist.	8974 Jan 25 02:03	13° ≈ 39'58	1.42556 AU	superior conj	8974 Dec 30 23:02	13° る 28'13	0°55'00
evening rise	8974 Jan 31 03:05	23° ≈ 25'52		minimum elong	8974 Dec 31 02:18	13° る 43'14	0°54'48
	8974 Feb 04 08:03	0° ∺		max. Earth dist.	8975 Jan 07 11:04	26° る 50'49	1.40528 AU
	0074E1 25 05 56	$0^{\circ}\Upsilon$		1 1			
evening max el	8974 Feb 25 05:56	UI		desc. node	8975 Jan 07 12:31	26° る 57'05	
evening max ci	8974 Feb 25 05:56 8974 Mar 04 17:20	8° Υ 44'11	22°15'11	desc. node	8975 Jan 07 12:31 8975 Jan 09 07:23	26°る57'05 0°≈	
retrograde			22°15'11	evening rise			
•	8974 Mar 04 17:20	8° Υ 44'11 14° Υ 24'54 14° Υ 20'48	22°15'11		8975 Jan 09 07:23	0° ≈	
retrograde	8974 Mar 04 17:20 8974 Mar 14 07:30	8°Y44'11 14°Y24'54 14°Y20'48 12°Y31'25	22°15'11		8975 Jan 09 07:23 8975 Jan 11 20:02	0° ≈ 4° ≈ 13'44	23°35'15
retrograde asc. node	8974 Mar 04 17:20 8974 Mar 14 07:30 8974 Mar 15 05:10	8°Y44'11 14°Y24'54 14°Y20'48 12°Y31'25 6°Y10'11	22°15'11 2°34'24	evening rise	8975 Jan 09 07:23 8975 Jan 11 20:02 8975 Jan 28 13:34	0°≈ 4°≈13'44 0° ₩ 22° ₩28'46 28° ₩48'52	23°35'15
retrograde asc. node evening set	8974 Mar 04 17:20 8974 Mar 14 07:30 8974 Mar 15 05:10 8974 Mar 18 22:28	8°Y44'11 14°Y24'54 14°Y20'48 12°Y31'25 6°Y10'11 6°Y17'49	2°34'24 2°33'50	evening rise evening max el retrograde asc. node	8975 Jan 09 07:23 8975 Jan 11 20:02 8975 Jan 28 13:34 8975 Feb 15 08:19	0°≈ 4°≈13'44 0° ¥ 22° ¥28'46 28° ¥48'52 27° ¥30'47	23°35'15
retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	8974 Mar 04 17:20 8974 Mar 14 07:30 8974 Mar 15 05:10 8974 Mar 18 22:28 8974 Mar 24 06:20	8°Υ44'11 14°Υ24'54 14°Υ20'48 12°Υ31'25 6°Υ10'11 6°Υ17'49 6°Υ18'03	2°34'24	evening rise evening max el retrograde	8975 Jan 09 07:23 8975 Jan 11 20:02 8975 Jan 28 13:34 8975 Feb 15 08:19 8975 Feb 26 01:51 8975 Mar 02 02:16 8975 Mar 03 04:38	0°≈ 4°≈13'44 0° ₩ 22° ₩28'46 28° ₩48'52 27° ₩30'47 26° ₩40'51	
retrograde asc. node evening set inferior conj minimum elong	8974 Mar 04 17:20 8974 Mar 14 07:30 8974 Mar 15 05:10 8974 Mar 18 22:28 8974 Mar 24 06:20 8974 Mar 24 04:08 8974 Mar 24 04:04 8974 Mar 29 09:40	8°Υ44'11 14°Υ24'54 14°Υ20'48 12°Υ31'25 6°Υ10'11 6°Υ17'49 6°Υ18'03 29°⊁59'47	2°34'24 2°33'50	evening rise evening max el retrograde asc. node evening set min. Earth dist.	8975 Jan 09 07:23 8975 Jan 11 20:02 8975 Jan 28 13:34 8975 Feb 15 08:19 8975 Feb 26 01:51 8975 Mar 02 02:16	0°≈ 4°≈13'44 0° X 22° X 28'46 28° X 48'52 27° X 30'47 26° X 40'51 21° X 02'04	0.68375 AU
retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	8974 Mar 04 17:20 8974 Mar 14 07:30 8974 Mar 15 05:10 8974 Mar 18 22:28 8974 Mar 24 06:20 8974 Mar 24 04:08 8974 Mar 24 04:04 8974 Mar 29 09:40 8974 Mar 29 09:34	8°Y44'11 14°Y24'54 14°Y20'48 12°Y31'25 6°Y10'11 6°Y17'49 6°Y18'03 29°¥59'47 30°R¥	2°34'24 2°33'50	evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj	8975 Jan 09 07:23 8975 Jan 11 20:02 8975 Jan 28 13:34 8975 Feb 15 08:19 8975 Feb 26 01:51 8975 Mar 02 02:16 8975 Mar 03 04:38	0°≈ 4°≈13'44 0° ₩ 22° ₩ 28'46 28° ₩ 48'52 27° ₩ 30'47 26° ₩ 40'51 21° ₩ 02'04 20° ₩ 13'35	0.68375 AU 1°59'09
retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	8974 Mar 04 17:20 8974 Mar 14 07:30 8974 Mar 15 05:10 8974 Mar 18 22:28 8974 Mar 24 06:20 8974 Mar 24 04:08 8974 Mar 24 04:04 8974 Mar 29 09:40 8974 Mar 29 09:34 8974 Apr 03 03:46	8°Y44'11 14°Y24'54 14°Y20'48 12°Y31'25 6°Y10'11 6°Y17'49 6°Y18'03 29°X59'47 30°RX 27°X59'12	2°34'24 2°33'50	evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong	8975 Jan 09 07:23 8975 Jan 11 20:02 8975 Jan 28 13:34 8975 Feb 15 08:19 8975 Feb 26 01:51 8975 Mar 02 02:16 8975 Mar 03 04:38 8975 Mar 08 00:44 8975 Mar 08 14:53 8975 Mar 08 12:43	0°≈ 4°≈13'44 0° ₩ 22° ₩28'46 28° ₩48'52 27° ₩30'47 26° ₩40'51 21° ₩02'04 20° ₩13'35 20° ₩21'01	0.68375 AU
retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	8974 Mar 04 17:20 8974 Mar 14 07:30 8974 Mar 15 05:10 8974 Mar 18 22:28 8974 Mar 24 06:20 8974 Mar 24 04:08 8974 Mar 24 04:04 8974 Mar 29 09:34 8974 Mar 29 09:34 8974 Apr 03 03:46 8974 Apr 08 11:40	8°Y44'11 14°Y24'54 14°Y20'48 12°Y31'25 6°Y10'11 6°Y17'49 6°Y18'03 29°X59'47 30°RX 27°X59'12 0°Y	2°34'24 2°33'50 0.68488 AU	evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise	8975 Jan 09 07:23 8975 Jan 11 20:02 8975 Jan 28 13:34 8975 Feb 15 08:19 8975 Feb 26 01:51 8975 Mar 02 02:16 8975 Mar 03 04:38 8975 Mar 08 00:44 8975 Mar 08 14:53 8975 Mar 08 12:43 8975 Mar 13 20:47	0°≈ 4°≈13'44 0° ₩ 22° ₩28'46 28° ₩48'52 27° ₩30'47 26° ₩40'51 21° ₩02'04 20° ₩13'35 20° ₩21'01 14° ₩08'59	0.68375 AU 1°59'09
retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	8974 Mar 04 17:20 8974 Mar 14 07:30 8974 Mar 15 05:10 8974 Mar 18 22:28 8974 Mar 24 06:20 8974 Mar 24 04:08 8974 Mar 24 04:04 8974 Mar 29 09:40 8974 Mar 29 09:34 8974 Apr 03 03:46 8974 Apr 08 11:40 8974 Apr 12 12:31	8°Y44'11 14°Y24'54 14°Y20'48 12°Y31'25 6°Y10'11 6°Y17'49 6°Y18'03 29°\59'47 30°R\ 27°\59'12 0°Y 3°Y28'27	2°34'24 2°33'50	evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	8975 Jan 09 07:23 8975 Jan 11 20:02 8975 Jan 28 13:34 8975 Feb 15 08:19 8975 Feb 26 01:51 8975 Mar 02 02:16 8975 Mar 03 04:38 8975 Mar 08 00:44 8975 Mar 08 14:53 8975 Mar 08 12:43 8975 Mar 13 20:47 8975 Mar 18 01:12	0°≈ 4°≈13'44 0° ₩ 22° ₩ 28' ₩ 48'52 27° ₩ 30'47 26° ₩ 40'51 21° ₩ 02'04 20° ₩ 13'35 20° ₩ 21'01 14° ₩ 08'59 12° ₩ 30'48	0.68375 AU 1°59'09 1°58'30
retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	8974 Mar 04 17:20 8974 Mar 14 07:30 8974 Mar 15 05:10 8974 Mar 18 22:28 8974 Mar 24 06:20 8974 Mar 24 04:08 8974 Mar 24 04:04 8974 Mar 29 09:40 8974 Apr 03 03:46 8974 Apr 08 11:40 8974 Apr 12 12:31 8974 Apr 18 15:34	8°Υ44'11 14°Υ24'54 14°Υ20'48 12°Υ31'25 6°Υ10'11 6°Υ17'49 6°Υ18'03 29°¥59'47 30°R¥ 27°¥59'12 0°Υ 3°Υ28'27 10°Υ29'41	2°34'24 2°33'50 0.68488 AU	evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	8975 Jan 09 07:23 8975 Jan 11 20:02 8975 Jan 28 13:34 8975 Feb 15 08:19 8975 Feb 26 01:51 8975 Mar 02 02:16 8975 Mar 03 04:38 8975 Mar 08 00:44 8975 Mar 08 12:43 8975 Mar 08 12:43 8975 Mar 13 20:47 8975 Mar 18 01:12 8975 Mar 26 06:08	0°≈ 4°≈13'44 0° ★ 22° ★28'46 28° ★48'52 27° ★30'47 26° ★40'51 21° ★02'04 20° ★13'35 20° ★21'01 14° ★08'59 12° ★30'48 17° ★12'15	0.68375 AU 1°59'09 1°58'30
retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	8974 Mar 04 17:20 8974 Mar 14 07:30 8974 Mar 15 05:10 8974 Mar 18 22:28 8974 Mar 24 06:20 8974 Mar 24 04:08 8974 Mar 24 04:04 8974 Mar 29 09:40 8974 Apr 03 03:46 8974 Apr 08 11:40 8974 Apr 12 12:31 8974 Apr 18 15:34 8974 May 02 16:05	8°Υ44'11 14°Υ24'54 14°Υ20'48 12°Υ31'25 6°Υ10'11 6°Υ17'49 6°Υ18'03 29°Ж59'47 30°RЖ 27°Ж59'12 0°Υ 3°Υ28'27 10°Υ29'41 0°8	2°34'24 2°33'50 0.68488 AU	evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	8975 Jan 09 07:23 8975 Jan 11 20:02 8975 Jan 28 13:34 8975 Feb 15 08:19 8975 Feb 26 01:51 8975 Mar 02 02:16 8975 Mar 03 04:38 8975 Mar 08 12:43 8975 Mar 08 12:43 8975 Mar 13 20:47 8975 Mar 18 01:12 8975 Mar 26 06:08 8975 Apr 05 12:28	0°≈ 4°≈13'44 0° ₩ 22° ₩ 28'46 28° ₩ 48'52 27° ₩ 30'47 26° ₩ 40'51 21° ₩ 02'04 20° ₩ 13'35 20° ₩ 21'01 14° ₩ 08'59 12° ₩ 30'48 17° ₩ 12'15 29° ₩ 52'17	0.68375 AU 1°59'09 1°58'30
retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set	8974 Mar 04 17:20 8974 Mar 14 07:30 8974 Mar 15 05:10 8974 Mar 18 22:28 8974 Mar 24 06:20 8974 Mar 24 04:08 8974 Mar 24 04:04 8974 Mar 29 09:40 8974 Apr 03 03:46 8974 Apr 03 03:46 8974 Apr 12 12:31 8974 Apr 12 12:31 8974 Apr 18 15:34 8974 May 02 16:05 8974 May 15 16:18	8°Y44'11 14°Y24'54 14°Y20'48 12°Y31'25 6°Y10'11 6°Y17'49 6°Y18'03 29°\59'47 30°R\ 27°\59'12 0°Y 3°Y28'27 10°Y29'41 0°\2008'51	2°34'24 2°33'50 0.68488 AU 22°08'26	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	8975 Jan 09 07:23 8975 Jan 11 20:02 8975 Jan 28 13:34 8975 Feb 15 08:19 8975 Feb 26 01:51 8975 Mar 02 02:16 8975 Mar 03 04:38 8975 Mar 08 00:44 8975 Mar 08 12:43 8975 Mar 13 20:47 8975 Mar 18 01:12 8975 Mar 26 06:08 8975 Apr 05 12:28 8975 Apr 05 14:42	0°≈ 4°≈13'44 0° ★ 22° ★28'46 28° ★48'52 27° ★30'47 26° ★40'51 21° ★02'04 20° ★13'35 20° ★21'01 14° ★08'59 12° ★30'48 17° ★12'15 29° ★52'17 0° Υ	0.68375 AU 1°59'09 1°58'30
retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	8974 Mar 04 17:20 8974 Mar 14 07:30 8974 Mar 15 05:10 8974 Mar 18 22:28 8974 Mar 24 06:20 8974 Mar 24 04:08 8974 Mar 24 04:04 8974 Mar 29 09:40 8974 Mar 29 09:34 8974 Apr 03 03:46 8974 Apr 08 11:40 8974 Apr 12 12:31 8974 Apr 18 15:34 8974 May 02 16:05 8974 May 15 16:18 8974 May 21 02:04	8°Y44'11 14°Y24'54 14°Y20'48 12°Y31'25 6°Y10'11 6°Y17'49 6°Y18'03 29°X59'47 30°RX 27°X59'12 0°Y 3°Y28'27 10°Y29'41 0°B 20°B08'51 29°B02'50	2°34'24 2°33'50 0.68488 AU	evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	8975 Jan 09 07:23 8975 Jan 11 20:02 8975 Jan 28 13:34 8975 Feb 15 08:19 8975 Feb 26 01:51 8975 Mar 02 02:16 8975 Mar 03 04:38 8975 Mar 08 14:53 8975 Mar 08 12:43 8975 Mar 13 20:47 8975 Mar 18 01:12 8975 Mar 26 06:08 8975 Apr 05 12:28 8975 Apr 05 14:42 8975 Apr 25 01:29	0°≈ 4°≈13'44 0° ★ 22° ★28'46 28° ★48'52 27° ★30'47 26° ★40'51 21° ★02'04 20° ★13'35 20° ★21'01 14° ★08'59 12° ★30'48 17° ★12'15 29° ★52'17 0° Ψ 28° Ψ'55'42	0.68375 AU 1°59'09 1°58'30
retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set	8974 Mar 04 17:20 8974 Mar 14 07:30 8974 Mar 15 05:10 8974 Mar 18 22:28 8974 Mar 24 06:20 8974 Mar 24 04:08 8974 Mar 24 04:04 8974 Mar 29 09:40 8974 Apr 03 03:46 8974 Apr 03 03:46 8974 Apr 12 12:31 8974 Apr 12 12:31 8974 Apr 18 15:34 8974 May 02 16:05 8974 May 15 16:18	8°Y44'11 14°Y24'54 14°Y20'48 12°Y31'25 6°Y10'11 6°Y17'49 6°Y18'03 29°\59'47 30°R\ 27°\59'12 0°Y 3°Y28'27 10°Y29'41 0°\2008'51	2°34'24 2°33'50 0.68488 AU 22°08'26	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	8975 Jan 09 07:23 8975 Jan 11 20:02 8975 Jan 28 13:34 8975 Feb 15 08:19 8975 Feb 26 01:51 8975 Mar 02 02:16 8975 Mar 03 04:38 8975 Mar 08 00:44 8975 Mar 08 12:43 8975 Mar 13 20:47 8975 Mar 18 01:12 8975 Mar 26 06:08 8975 Apr 05 12:28 8975 Apr 05 14:42 8975 Apr 25 01:29 8975 Apr 25 17:58	0°≈ 4°≈13'44 0° \times 22° \times 28'46 28° \times 48'52 27° \times 30'47 26° \times 40'51 21° \times 02'04 20° \times 13'35 20° \times 21'01 14° \times 08'59 12° \times 30'48 17° \times 12'15 29° \times 52'17 0° \times 28° \times 55'42 0° \times	0.68375 AU 1°59'09 1°58'30 20°47'26
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retrograde asc. node 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 evening rise asc. node	8974 Mar 04 17:20 8974 Mar 14 07:30 8974 Mar 15 05:10 8974 Mar 18 22:28 8974 Mar 24 06:20 8974 Mar 24 04:08 8974 Mar 24 04:04 8974 Mar 29 09:40 8974 Apr 03 03:46 8974 Apr 08 11:40 8974 Apr 12 12:31 8974 Apr 18 15:34 8974 Apr 18 15:34 8974 May 02 16:05 8974 May 15 16:18 8974 May 21 02:04 8974 May 21 02:04 8974 May 28 20:26 8974 May 29 02:27 8974 Jun 07 10:51 8974 Jun 08 07:23 8974 Jun 11 03:58	8°Y44'11 14°Y24'54 14°Y20'48 12°Y31'25 6°Y10'11 6°Y17'49 6°Y18'03 29° ¥59'47 30°R ¥ 27° ¥59'12 0°Y 3°Y28'27 10°Y29'41 0°8 20°808'51 29°802'50 0°II 12°II27'05 12°II53'49 0°G 1°G35'38 6°G53'41	2°34'24 2°33'50 0.68488 AU 22°08'26 1.41142 AU -1°46'04 1°45'40	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	8975 Jan 09 07:23 8975 Jan 11 20:02 8975 Jan 28 13:34 8975 Feb 15 08:19 8975 Feb 26 01:51 8975 Mar 02 02:16 8975 Mar 03 04:38 8975 Mar 08 14:53 8975 Mar 08 12:43 8975 Mar 13 20:47 8975 Mar 18 01:12 8975 Mar 26 06:08 8975 Apr 05 12:28 8975 Apr 05 12:28 8975 Apr 25 01:29 8975 Apr 25 01:29 8975 Apr 25 17:58 8975 May 03 07:30 8975 May 10 02:59 8975 May 10 07:22 8975 May 14 01:44 8975 May 22 02:47	0°≈ 4°≈13'44 0° \times 22° \times 28'46 28° \times 48'52 27° \times 30'47 26° \times 40'51 21° \times 02'04 20° \times 13'35 20° \times 21'01 14° \times 08'59 12° \times 30'48 17° \times 12'15 29° \times 52'17 0° \times 28° \times 55'42 0° \times 12° \times 01'49 23° \times 16'43 23° \times 35'12 0° \times 14° \times 105'58	0.68375 AU 1°59'09 1°58'30 20°47'26 1.43121 AU -2°06'22
retrograde asc. node 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 evening rise	8974 Mar 04 17:20 8974 Mar 14 07:30 8974 Mar 15 05:10 8974 Mar 18 22:28 8974 Mar 24 06:20 8974 Mar 24 04:08 8974 Mar 24 04:04 8974 Mar 29 09:40 8974 Mar 29 09:34 8974 Apr 03 03:46 8974 Apr 08 11:40 8974 Apr 12 12:31 8974 Apr 18 15:34 8974 Apr 18 15:34 8974 May 02 16:05 8974 May 15 16:18 8974 May 21 02:04 8974 May 21 02:04 8974 May 28 20:26 8974 May 29 02:27 8974 Jun 07 10:51 8974 Jun 08 07:23 8974 Jun 11 03:58 8974 Jun 24 09:49	8°Y44'11 14°Y24'54 14°Y20'48 12°Y31'25 6°Y10'11 6°Y17'49 6°Y18'03 29° ¥59'47 30°R ¥ 27° ¥59'12 0°Y 3°Y28'27 10°Y29'41 0°8 20°808'51 29°802'50 0°II 12°II27'05 12°II53'49 0°9 1°935'38 6°953'41 27°\$16'41	2°34'24 2°33'50 0.68488 AU 22°08'26 1.41142 AU -1°46'04	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	8975 Jan 09 07:23 8975 Jan 11 20:02 8975 Jan 28 13:34 8975 Feb 15 08:19 8975 Feb 26 01:51 8975 Mar 02 02:16 8975 Mar 03 04:38 8975 Mar 08 00:44 8975 Mar 08 12:43 8975 Mar 13 20:47 8975 Mar 18 01:12 8975 Mar 26 06:08 8975 Apr 05 12:28 8975 Apr 05 12:28 8975 Apr 25 01:29 8975 Apr 25 01:29 8975 Apr 25 17:58 8975 May 10 02:59 8975 May 10 02:59 8975 May 10 07:22 8975 May 12 02:47 8975 May 29 01:00	0°≈ 4°≈13'44 0° ★ 22° ★28'46 28° ★48'52 27° ★30'47 26° ★40'51 21° ★02'04 20° ★13'35 20° ★21'01 14° ★08'59 12° ★30'48 17° ★12'15 29° ★52'17 0° ♀ 28° ♀55'42 0° ★ 12° ★01'49 23° ★35'12 0° Ⅲ 14° Ⅲ05'58 26° Ⅲ14'51	0.68375 AU 1°59'09 1°58'30 20°47'26 1.43121 AU -2°06'22
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retrograde asc. node 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 evening rise asc. node	8974 Mar 04 17:20 8974 Mar 14 07:30 8974 Mar 15 05:10 8974 Mar 18 22:28 8974 Mar 24 06:20 8974 Mar 24 04:08 8974 Mar 24 04:04 8974 Mar 29 09:40 8974 Mar 29 09:34 8974 Apr 03 03:46 8974 Apr 08 11:40 8974 Apr 12 12:31 8974 Apr 18 15:34 8974 Apr 18 15:34 8974 May 02 16:05 8974 May 15 16:18 8974 May 21 02:04 8974 May 21 02:04 8974 May 28 20:26 8974 May 29 02:27 8974 Jun 07 10:51 8974 Jun 08 07:23 8974 Jun 11 03:58 8974 Jun 24 09:49	8°Y44'11 14°Y24'54 14°Y20'48 12°Y31'25 6°Y10'11 6°Y17'49 6°Y18'03 29° ¥59'47 30°R ¥ 27° ¥59'12 0°Y 3°Y28'27 10°Y29'41 0°8 20°808'51 29°802'50 0°II 12°II27'05 12°II53'49 0°9 1°935'38 6°953'41 27°\$16'41	2°34'24 2°33'50 0.68488 AU 22°08'26 1.41142 AU -1°46'04 1°45'40	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	8975 Jan 09 07:23 8975 Jan 11 20:02 8975 Jan 28 13:34 8975 Feb 15 08:19 8975 Feb 26 01:51 8975 Mar 02 02:16 8975 Mar 03 04:38 8975 Mar 08 00:44 8975 Mar 08 12:43 8975 Mar 13 20:47 8975 Mar 18 01:12 8975 Mar 26 06:08 8975 Apr 05 12:28 8975 Apr 05 12:28 8975 Apr 25 01:29 8975 Apr 25 01:29 8975 Apr 25 17:58 8975 May 10 02:59 8975 May 10 02:59 8975 May 10 07:22 8975 May 12 02:47 8975 May 29 01:00	0°≈ 4°≈13'44 0° ★ 22° ★28'46 28° ★48'52 27° ★30'47 26° ★40'51 21° ★02'04 20° ★13'35 20° ★21'01 14° ★08'59 12° ★30'48 17° ★12'15 29° ★52'17 0° ♀ 28° ♀55'42 0° ★ 12° ★01'49 23° ★35'12 0° Ⅲ 14° Ⅲ05'58 26° Ⅲ14'51	0.68375 AU 1°59'09 1°58'30 20°47'26 1.43121 AU -2°06'22

avaning sat	8975 Jun 17 02:02	13° © 10'05		evening max el	8976 May 21 11:25	23° Ⅱ 40'59	19012156
evening set inferior conj	8975 Jun 23 15:20	8°908'36	2°21'07	retrograde	8976 May 27 20:28	23 H 40 39 27° H 03'27	16 12 30
,	8975 Jun 23 18:16		2°20'06	•		27 II 03 27 26° II 18'25	
minimum elong min. Earth dist.	8975 Jun 26 18:18	8°501'20	0.61288 AU	evening set	8976 May 30 18:26 8976 Jun 05 19:04		2°59'39
		5°504'51	0.01288 AU	inferior conj			
morning rise	8975 Jun 30 08:09	2°508'43		minimum elong	8976 Jun 05 21:12		2°59'03
desc. node	8975 Jul 02 12:02	0°954'39		min. Earth dist.	8976 Jun 08 09:31	18° Ⅱ 05'58	0.63450 AU
	8975 Jul 05 10:53	30°Ŗ Ⅱ		morning rise	8976 Jun 11 22:32	14° Ⅱ 46'01	
direct	8975 Jul 06 23:57	29° ∏ 52'52		desc. node	8976 Jun 18 09:05	12° Ⅱ 09'34	
	8975 Jul 08 13:42	0° ©		direct	8976 Jun 18 16:20	12° Ⅱ 09'16	
morning max el	8975 Jul 21 06:01		27°55'16	morning max el	8976 Jul 02 14:24	20° Ⅱ 12'14	27°45'10
	8975 Aug 07 03:13	0 $^{\circ}\Omega$			8976 Jul 10 23:53	0°®	
morning set	8975 Aug 23 10:15	29° Ω 38'41			8976 Jul 30 04:10	0 ° Ω	
	8975 Aug 23 14:24	0° m		morning set	8976 Aug 06 06:22	13° Ω 30′39	
asc. node	8975 Aug 25 00:31	2° Mp 57'46		asc. node	8976 Aug 10 21:28	23° Ω 01'48	
max. Earth dist.	8975 Aug 29 05:28	11° m 59'43	1.31844 AU	max. Earth dist.	8976 Aug 11 08:01	23° Ω 57′29	1.32582 AU
	0055 4 20 10 55	1.50 % 0.510 4	0055122		00564 14 00 14	200 0 51155	0021140
superior conj	8975 Aug 30 18:57	15° m 25'24	0°55'32	superior conj	8976 Aug 14 02:14	29° Ω 51'55	0°31'49
minimum elong	8975 Aug 30 16:50	15° m 13'48	0°55'04	minimum elong	8976 Aug 14 00:47	29° Ω 44'06	0°31'23
	8975 Sep 06 10:29	0∘ ⊽			8976 Aug 14 03:44	0° m)	
evening rise	8975 Sep 06 13:20	0° £ 15′18		evening rise	8976 Aug 21 00:56	14° m 54'54	
	8975 Sep 22 17:26	0°M₊			8976 Aug 28 12:29	0∘ ⊽	
desc. node	8975 Sep 28 10:37	7° M 36'47		evening max el	8976 Sep 13 02:56	22° ₽ 23'22	23°17'53
evening max el	8975 Oct 02 15:48	12°M08'09	24°55'49	desc. node	8976 Sep 14 07:45	23° ≏ 30′28	
retrograde	8975 Oct 16 12:05	19° ™ 06'30		retrograde	8976 Sep 26 13:39	29° ≏ 06′23	
evening set	8975 Oct 22 01:44	17° ™ 56'35		evening set	8976 Sep 30 16:24	28° ≏ 29'25	
min. Earth dist.	8975 Oct 27 03:12	15° ™ 13'14	0.56969 AU	min. Earth dist.	8976 Oct 07 12:29	25° ≏ 18'49	0.55457 AU
inferior conj	8975 Oct 29 21:46	13°M24'29	-5°28'00	inferior conj	8976 Oct 09 06:06	24° ₽ 17'54	-5°35'26
minimum elong	8975 Oct 30 02:10	13°ML17'15	5°27'23	minimum elong	8976 Oct 09 03:20	24° ₽ 21'57	5°35'11
morning rise	8975 Nov 07 04:54	9° ™ 16′27		morning rise	8976 Oct 17 16:18	20° ≏ 26′27	
direct	8975 Nov 09 16:18	8°M59'06		direct	8976 Oct 20 14:57	20° ≏ 05'36	
morning max el	8975 Nov 18 23:13	13° M 24'22	19°16'32	morning max el	8976 Oct 31 10:33	25° ≏ 10′30	20°29'49
asc. node	8975 Nov 21 00:20	15°M33'54			8976 Nov 04 18:02	0° M	
	8975 Nov 30 09:40	0° ∡		asc. node	8976 Nov 06 21:20	2°M56'28	
morning set	8975 Dec 05 22:41	10° ∡ ¹43'21		morning set	8976 Nov 19 05:28	25°M23'14	
					8976 Nov 21 11:03	0° ∡ ¹	
superior conj	8975 Dec 14 02:07	26° ₹ 52'54	1°18'08				
minimum elong	8975 Dec 14 05:08	27° ₮ 07'32	1°18'02	superior conj	8976 Nov 26 17:55	10° ∡ ′53'34	1°32'49
	8975 Dec 15 16:56	8°0		minimum elong	8976 Nov 26 19:54	11° ∡ °03′36	1°32'54
max. Earth dist.	8975 Dec 20 16:46	9° る 18'49	1.38344 AU	max. Earth dist.	8976 Dec 02 00:06	21° ₮ 18'40	1.36256 AU
evening rise	8975 Dec 24 10:47	15° る 59'10		evening rise	8976 Dec 05 21:16	28° ∡ ³37′00	
desc. node	69/3 DCC 24 10.4/						
uese. Houe	8975 Dec 25 09:28	17° る 37'28			8976 Dec 06 15:25	ರ∘ರ	
desc. node				desc. node	8976 Dec 06 15:25 8976 Dec 11 06:29		
desc. node	8975 Dec 25 09:28	17° る 37'28		desc. node		გ∘0	
evening max el	8975 Dec 25 09:28 8976 Jan 01 20:46	17° ට 37'28 0°≈	24°53'32	desc. node	8976 Dec 11 06:29	0°♂ 8°♂10'39 0°≈	26°02'53
	8975 Dec 25 09:28 8976 Jan 01 20:46 8976 Jan 23 04:22	17° る 37′28 0°≈ 0°⊁	24°53'32		8976 Dec 11 06:29 8976 Dec 25 03:45	0°る 8°る10'39 0°≈	26°02'53
evening max el retrograde evening set	8975 Dec 25 09:28 8976 Jan 01 20:46 8976 Jan 23 04:22 8976 Jan 28 21:34	17°る37'28 0°≈ 0°米 6°升15'49	24°53'32	evening max el	8976 Dec 11 06:29 8976 Dec 25 03:45 8977 Jan 10 10:48	0°る 8°る10'39 0°≈ 20°≈03'42	26°02'53
evening max el retrograde	8975 Dec 25 09:28 8976 Jan 01 20:46 8976 Jan 23 04:22 8976 Jan 28 21:34 8976 Feb 09 16:21	17°る37'28 0°≈ 0°光 6°光15'49 13°光07'23	24°53'32	evening max el retrograde	8976 Dec 11 06:29 8976 Dec 25 03:45 8977 Jan 10 10:48 8977 Jan 23 02:01	0°ප 8°ප10'39 0°≈ 20°≈03'42 27°≈15'06	26°02'53 0.66961 AU
evening max el retrograde evening set	8975 Dec 25 09:28 8976 Jan 01 20:46 8976 Jan 23 04:22 8976 Jan 28 21:34 8976 Feb 09 16:21 8976 Feb 15 07:32	17° ♂ 37'28 0° ≈ 0° 米 6° 米 15'49 13° 米 07'23 10° 米 46'41	24°53'32 0.67858 AU	evening max el retrograde evening set	8976 Dec 11 06:29 8976 Dec 25 03:45 8977 Jan 10 10:48 8977 Jan 23 02:01 8977 Jan 29 05:29	0° ිටි 8° ටි 10'39 0° ක 20° ක03'42 27° ක15'06 24° ක44'52	
evening max el retrograde evening set asc. node	8975 Dec 25 09:28 8976 Jan 01 20:46 8976 Jan 23 04:22 8976 Jan 28 21:34 8976 Feb 09 16:21 8976 Feb 15 07:32 8976 Feb 16 23:24	17°る37'28 0°≈ 0°¥ 6°¥15'49 13°¥07'23 10°¥46'41 9°¥10'18		evening max el retrograde evening set min. Earth dist.	8976 Dec 11 06:29 8976 Dec 25 03:45 8977 Jan 10 10:48 8977 Jan 23 02:01 8977 Jan 29 05:29 8977 Feb 02 11:13	0° ිත් 8° ත්10'39 0° ක 20° ක03'42 27° ක15'06 24° ක44'52 20° ක15'04	
evening max el retrograde evening set asc. node min. Earth dist.	8975 Dec 25 09:28 8976 Jan 01 20:46 8976 Jan 23 04:22 8976 Jan 28 21:34 8976 Feb 09 16:21 8976 Feb 15 07:32 8976 Feb 16 23:24 8976 Feb 19 19:50	17°る37'28 0°≈ 0°米 6°¥15'49 13°¥07'23 10°¥46'41 9°¥10'18 5°¥42'24	0.67858 AU 1°15'13	evening max el retrograde evening set min. Earth dist. asc. node	8976 Dec 11 06:29 8976 Dec 25 03:45 8977 Jan 10 10:48 8977 Jan 23 02:01 8977 Jan 29 05:29 8977 Feb 02 11:13 8977 Feb 02 20:32	0° පි 8° පි10'39 0° ≈ 20° ≈03'42 27° ≈15'06 24° ≈44'52 20° ≈15'04 19° ≈46'20	0.66961 AU 0°23'00
evening max el retrograde evening set asc. node min. Earth dist. inferior conj	8975 Dec 25 09:28 8976 Jan 01 20:46 8976 Jan 23 04:22 8976 Jan 28 21:34 8976 Feb 09 16:21 8976 Feb 15 07:32 8976 Feb 16 23:24 8976 Feb 19 19:50 8976 Feb 20 21:32	17°る37'28 0°無 0°光 6°光15'49 13°光07'23 10°光46'41 9°光10'18 5°光42'24 4°光17'36	0.67858 AU 1°15'13	evening max el retrograde evening set min. Earth dist. asc. node inferior conj	8976 Dec 11 06:29 8976 Dec 25 03:45 8977 Jan 10 10:48 8977 Jan 23 02:01 8977 Jan 29 05:29 8977 Feb 02 11:13 8977 Feb 02 20:32 8977 Feb 04 00:25	0°♂ 8°♂10'39 0°≈ 20°≈03'42 27°≈15'06 24°≈44'52 20°≈15'04 19°≈46'20 18°≈19'19	0.66961 AU 0°23'00
evening max el retrograde evening set asc. node min. Earth dist. inferior conj	8975 Dec 25 09:28 8976 Jan 01 20:46 8976 Jan 23 04:22 8976 Jan 28 21:34 8976 Feb 09 16:21 8976 Feb 15 07:32 8976 Feb 16 23:24 8976 Feb 19 19:50 8976 Feb 20 21:32 8976 Feb 20 19:53	17°る37'28 0°無 0°升 6°升15'49 13°升07'23 10°升46'41 9°升10'18 5°升42'24 4°升17'36 4°升23'05	0.67858 AU 1°15'13	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong	8976 Dec 11 06:29 8976 Dec 25 03:45 8977 Jan 10 10:48 8977 Jan 23 02:01 8977 Jan 29 05:29 8977 Feb 02 11:13 8977 Feb 02 20:32 8977 Feb 04 00:25 8977 Feb 03 23:49	0° පි 8° පි10'39 0° ක 20° ක03'42 27° ක15'06 24° ක44'52 20° ක15'04 19° ක46'20 18° ක19'19 18° ක21'10	0.66961 AU 0°23'00
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	8975 Dec 25 09:28 8976 Jan 01 20:46 8976 Jan 23 04:22 8976 Jan 28 21:34 8976 Feb 09 16:21 8976 Feb 15 07:32 8976 Feb 16 23:24 8976 Feb 19 19:50 8976 Feb 20 21:32 8976 Feb 20 19:53 8976 Feb 24 10:32	17°る37'28 0°無 0°升 6°升15'49 13°升07'23 10°升46'41 9°升10'18 5°升42'24 4°升17'36 4°升23'05 30°飛業	0.67858 AU 1°15'13	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise	8976 Dec 11 06:29 8976 Dec 25 03:45 8977 Jan 10 10:48 8977 Jan 23 02:01 8977 Jan 29 05:29 8977 Feb 02 11:13 8977 Feb 04 00:25 8977 Feb 03 23:49 8977 Feb 09 18:48	0°♂ 8°♂10'39 0°≈ 20°≈03'42 27°≈15'06 24°≈44'52 20°≈15'04 19°≈46'20 18°≈19'19 18°≈21'10 12°≈30'58	0.66961 AU 0°23'00
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	8975 Dec 25 09:28 8976 Jan 01 20:46 8976 Jan 23 04:22 8976 Jan 28 21:34 8976 Feb 09 16:21 8976 Feb 15 07:32 8976 Feb 16 23:24 8976 Feb 19 19:50 8976 Feb 20 21:32 8976 Feb 20 19:53 8976 Feb 24 10:32 8976 Feb 26 08:29	17°る37'28 0°≈ 0°升 6°升15'49 13°升07'23 10°升46'41 9°升10'18 5°升42'24 4°升17'36 4°升23'05 30°R≈ 28°≈20'15	0.67858 AU 1°15'13	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct	8976 Dec 11 06:29 8976 Dec 25 03:45 8977 Jan 10 10:48 8977 Jan 23 02:01 8977 Jan 29 05:29 8977 Feb 02 11:13 8977 Feb 04 00:25 8977 Feb 03 23:49 8977 Feb 09 18:48 8977 Feb 12 23:12	0°♂ 8°♂10'39 0°≈ 20°≈03'42 27°≈15'06 24°≈44'52 20°≈15'04 19°≈46'20 18°≈19'19 18°≈21'10 12°≈30'58 11°≈33'10	0.66961 AU 0°23'00 0°22'57
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	8975 Dec 25 09:28 8976 Jan 01 20:46 8976 Jan 23 04:22 8976 Jan 28 21:34 8976 Feb 09 16:21 8976 Feb 15 07:32 8976 Feb 16 23:24 8976 Feb 19 19:50 8976 Feb 20 21:32 8976 Feb 20 19:53 8976 Feb 24 10:32 8976 Feb 26 08:29 8976 Mar 01 00:11	17°る37'28 0°≈ 0°升 6°升15'49 13°升07'23 10°升46'41 9°升10'18 5°升42'24 4°升17'36 4°升23'05 30°R≈ 28°≈20'15 27°≈03'34	0.67858 AU 1°15'13	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct	8976 Dec 11 06:29 8976 Dec 25 03:45 8977 Jan 10 10:48 8977 Jan 23 02:01 8977 Jan 29 05:29 8977 Feb 02 11:13 8977 Feb 02 20:32 8977 Feb 04 00:25 8977 Feb 09 18:48 8977 Feb 12 23:12 8977 Feb 19 16:20	0°♂ 8°♂10'39 0°≈ 20°≈03'42 27°≈15'06 24°≈44'52 20°≈15'04 19°≈46'20 18°≈19'19 18°≈21'10 12°≈30'58 11°≈33'10 15°≈12'06	0.66961 AU 0°23'00 0°22'57
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct	8975 Dec 25 09:28 8976 Jan 01 20:46 8976 Jan 23 04:22 8976 Jan 28 21:34 8976 Feb 09 16:21 8976 Feb 15 07:32 8976 Feb 16 23:24 8976 Feb 19 19:50 8976 Feb 20 21:32 8976 Feb 20 19:53 8976 Feb 24 10:32 8976 Feb 26 08:29 8976 Mar 01 00:11 8976 Mar 07 02:30	17°る37'28 0°≈ 0°米 6°升15'49 13°升07'23 10°升46'41 9°升10'18 5°升42'24 4°升17'36 4°升23'05 30°隔≈ 28°≈20'15 27°≈03'34 0°升	0.67858 AU 1°15'13 1°14'43	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el	8976 Dec 11 06:29 8976 Dec 25 03:45 8977 Jan 10 10:48 8977 Jan 23 02:01 8977 Jan 29 05:29 8977 Feb 02 11:13 8977 Feb 02 20:32 8977 Feb 04 00:25 8977 Feb 09 18:48 8977 Feb 12 23:12 8977 Feb 19 16:20 8977 Mar 02 20:05	0°♂ 8°♂10'39 0°≈ 20°≈03'42 27°≈15'06 24°≈44'52 20°≈15'04 19°≈46'20 18°≈19'19 18°≈21'10 12°≈30'58 11°≈33'10 15°≈12'06 0°∺	0.66961 AU 0°23'00 0°22'57
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct	8975 Dec 25 09:28 8976 Jan 01 20:46 8976 Jan 23 04:22 8976 Jan 28 21:34 8976 Feb 09 16:21 8976 Feb 15 07:32 8976 Feb 16 23:24 8976 Feb 19 19:50 8976 Feb 20 21:32 8976 Feb 20 19:53 8976 Feb 24 10:32 8976 Feb 26 08:29 8976 Mar 01 00:11 8976 Mar 07 02:30 8976 Mar 08 07:30	17° る37'28 0° ≈ 0° ¥ 6° ¥15'49 13° ¥07'23 10° ¥46'41 9° ¥10'18 5° ¥42'24 4° ¥17'36 4° ¥23'05 30° R≈ 28° ≈ 20'15 27° ≈ 03'34 0° ¥ 1° ¥07'40	0.67858 AU 1°15'13 1°14'43	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el	8976 Dec 11 06:29 8976 Dec 25 03:45 8977 Jan 10 10:48 8977 Jan 23 02:01 8977 Jan 29 05:29 8977 Feb 02 11:13 8977 Feb 04 00:25 8977 Feb 03 23:49 8977 Feb 09 18:48 8977 Feb 12 23:12 8977 Feb 19 16:20 8977 Mar 02 20:05 8977 Mar 09 06:15	0°る 8°る10'39 0°≈ 20°≈03'42 27°≈15'06 24°≈44'52 20°≈15'04 19°≈46'20 18°≈19'19 18°≈21'10 12°≈30'58 11°≈33'10 15°≈12'06 0°光 9°头54'00	0.66961 AU 0°23'00 0°22'57
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy	8975 Dec 25 09:28 8976 Jan 01 20:46 8976 Jan 23 04:22 8976 Jan 28 21:34 8976 Feb 09 16:21 8976 Feb 15 07:32 8976 Feb 16 23:24 8976 Feb 19 19:50 8976 Feb 20 21:32 8976 Feb 20 19:53 8976 Feb 24 10:32 8976 Feb 26 08:29 8976 Mar 01 00:11 8976 Mar 07 02:30 8976 Mar 08 07:30 8976 Mar 21 00:27	17°る37'28 0°≈ 0°米 6°升15'49 13°升07'23 10°升46'41 9°升10'18 5°升42'24 4°升17'36 4°升23'05 30°R≈ 28°≈20'15 27°≈03'34 0°升 1°升07'40 17°升41'19 19°升42'47 0°ץ	0.67858 AU 1°15'13 1°14'43	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el	8976 Dec 11 06:29 8976 Dec 25 03:45 8977 Jan 10 10:48 8977 Jan 23 02:01 8977 Jan 29 05:29 8977 Feb 02 11:13 8977 Feb 02 20:32 8977 Feb 03 23:49 8977 Feb 09 18:48 8977 Feb 12 23:12 8977 Feb 19 16:20 8977 Mar 02 20:05 8977 Mar 09 06:15 8977 Mar 13 09:55	0°る 8°る10'39 0°≈ 20°≈03'42 27°≈15'06 24°≈44'52 20°≈15'04 19°≈46'20 18°≈19'19 18°≈21'10 12°≈30'58 11°≈33'10 15°≈12'06 0°米 9°米54'00 16°米23'23	0.66961 AU 0°23'00 0°22'57
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy	8975 Dec 25 09:28 8976 Jan 01 20:46 8976 Jan 23 04:22 8976 Jan 28 21:34 8976 Feb 09 16:21 8976 Feb 15 07:32 8976 Feb 16 23:24 8976 Feb 19 19:50 8976 Feb 20 21:32 8976 Feb 20 19:53 8976 Feb 24 10:32 8976 Feb 26 08:29 8976 Mar 01 00:11 8976 Mar 07 02:30 8976 Mar 08 07:30 8976 Mar 21 00:27 8976 Mar 22 09:21	17°る37'28 0°≈ 0°米 6°升15'49 13°升07'23 10°升46'41 9°升10'18 5°升42'24 4°升17'36 4°升23'05 30°R≈ 28°≈20'15 27°≈03'34 0°升 1°升07'40 17°升41'19 19°升42'47	0.67858 AU 1°15'13 1°14'43	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set	8976 Dec 11 06:29 8976 Dec 25 03:45 8977 Jan 10 10:48 8977 Jan 23 02:01 8977 Jan 29 05:29 8977 Feb 02 11:13 8977 Feb 02 20:32 8977 Feb 03 23:49 8977 Feb 09 18:48 8977 Feb 12 23:12 8977 Feb 19 16:20 8977 Mar 02 20:05 8977 Mar 09 06:15 8977 Mar 13 09:55 8977 Mar 22 02:48	0°♂ 8°♂10'39 0°≈ 20°≈03'42 27°≈15'06 24°≈44'52 20°≈15'04 19°≈46'20 18°≈19'19 18°≈21'10 12°≈30'58 11°≈33'10 15°≈12'06 0°₩ 9°₩54'00 16°₩23'23	0.66961 AU 0°23'00 0°22'57 18°46'12
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node	8975 Dec 25 09:28 8976 Jan 01 20:46 8976 Jan 23 04:22 8976 Jan 28 21:34 8976 Feb 09 16:21 8976 Feb 15 07:32 8976 Feb 16 23:24 8976 Feb 19 19:50 8976 Feb 20 21:32 8976 Feb 20 19:53 8976 Feb 24 10:32 8976 Feb 26 08:29 8976 Mar 01 00:11 8976 Mar 07 02:30 8976 Mar 08 07:30 8976 Mar 21 00:27 8976 Mar 22 09:21 8976 Mar 29 05:09	17°る37'28 0°≈ 0°米 6°升15'49 13°升07'23 10°升46'41 9°升10'18 5°升42'24 4°升17'36 4°升23'05 30°R≈ 28°≈20'15 27°≈03'34 0°升 1°升07'40 17°升41'19 19°升42'47 0°ץ	0.67858 AU 1°15'13 1°14'43	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set	8976 Dec 11 06:29 8976 Dec 25 03:45 8977 Jan 10 10:48 8977 Jan 23 02:01 8977 Jan 29 05:29 8977 Feb 02 11:13 8977 Feb 02 20:32 8977 Feb 03 23:49 8977 Feb 09 18:48 8977 Feb 12 23:12 8977 Feb 19 16:20 8977 Mar 02 20:05 8977 Mar 09 06:15 8977 Mar 13 09:55 8977 Mar 22 02:48	0°♂ 8°♂10'39 0°≈ 20°≈03'42 27°≈15'06 24°≈44'52 20°≈15'04 19°≈46'20 18°≈19'19 18°≈21'10 12°≈30'58 11°≈33'10 15°≈12'06 0°₩ 9°₩54'00 16°₩23'23	0.66961 AU 0°23'00 0°22'57 18°46'12
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set	8975 Dec 25 09:28 8976 Jan 01 20:46 8976 Jan 23 04:22 8976 Jan 28 21:34 8976 Feb 09 16:21 8976 Feb 15 07:32 8976 Feb 16 23:24 8976 Feb 19 19:50 8976 Feb 20 21:32 8976 Feb 20 19:53 8976 Feb 24 10:32 8976 Feb 26 08:29 8976 Mar 01 00:11 8976 Mar 07 02:30 8976 Mar 08 07:30 8976 Mar 21 00:27 8976 Mar 22 09:21 8976 Mar 29 05:09 8976 Apr 02 23:16	17°る37'28 0°≈ 0° ★ 6° ₭15'49 13° ₩07'23 10° ₩46'41 9° ₩10'18 5° ₩42'24 4° ₩17'36 4° ₩23'05 30° №≈ 28°≈20'15 27°≈03'34 0° ₩ 1° ₩07'40 17° ₩41'19 19° ₩42'47 0° ❤ 7° ♥17'11	0.67858 AU 1°15'13 1°14'43 19°39'07 -0.7m	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	8976 Dec 11 06:29 8976 Dec 25 03:45 8977 Jan 10 10:48 8977 Jan 23 02:01 8977 Jan 29 05:29 8977 Feb 02 11:13 8977 Feb 02 20:32 8977 Feb 03 23:49 8977 Feb 09 18:48 8977 Feb 12 23:12 8977 Feb 19 16:20 8977 Mar 02 20:05 8977 Mar 09 06:15 8977 Mar 13 09:55 8977 Mar 22 02:48 8977 Mar 28 12:27	0°る 8°る10'39 0°≈ 20°≈03'42 27°≈15'06 24°≈44'52 20°≈15'04 19°≈46'20 18°≈19'19 18°≈21'10 12°≈30'58 11°≈33'10 15°≈12'06 0°米 9°米54'00 16°米23'23 0°℃	0.66961 AU 0°23'00 0°22'57 18°46'12 1.45427 AU -1°57'54
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set	8975 Dec 25 09:28 8976 Jan 01 20:46 8976 Jan 23 04:22 8976 Jan 28 21:34 8976 Feb 09 16:21 8976 Feb 15 07:32 8976 Feb 16 23:24 8976 Feb 19 19:50 8976 Feb 20 21:32 8976 Feb 20 19:53 8976 Feb 24 10:32 8976 Feb 26 08:29 8976 Mar 01 00:11 8976 Mar 07 02:30 8976 Mar 08 07:30 8976 Mar 21 00:27 8976 Mar 22 09:21 8976 Mar 29 05:09 8976 Apr 02 23:16 8976 Apr 14 19:27	17°♂37'28 0°≈ 0°¥ 6°¥15'49 13°¥07'23 10°¥46'41 9°¥10'18 5°¥42'24 4°¥17'36 4°¥23'05 30°R≈ 28°≈20'15 27°≈03'34 0°¥ 1°¥07'40 17°¥41'19 19°¥42'47 0°♥ 7°♥17'11 25°♥45'46	0.67858 AU 1°15'13 1°14'43 19°39'07 -0.7m	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	8976 Dec 11 06:29 8976 Dec 25 03:45 8977 Jan 10 10:48 8977 Jan 23 02:01 8977 Jan 29 05:29 8977 Feb 02 11:13 8977 Feb 02 20:32 8977 Feb 03 23:49 8977 Feb 09 18:48 8977 Feb 12 23:12 8977 Feb 19 16:20 8977 Mar 02 20:05 8977 Mar 09 06:15 8977 Mar 13 09:55 8977 Mar 22 02:48 8977 Mar 28 12:27	0°♂ 8°♂10'39 0°≈ 20°≈03'42 27°≈15'06 24°≈44'52 20°≈15'04 19°≈46'20 18°≈19'19 18°≈21'10 12°≈30'58 11°≈33'10 15°≈12'06 0° ₩ 9° ₩54'00 16° ₩23'23 0° Ψ 10° Ψ00'54	0.66961 AU 0°23'00 0°22'57 18°46'12 1.45427 AU -1°57'54
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set	8975 Dec 25 09:28 8976 Jan 01 20:46 8976 Jan 23 04:22 8976 Jan 28 21:34 8976 Feb 09 16:21 8976 Feb 15 07:32 8976 Feb 16 23:24 8976 Feb 19 19:50 8976 Feb 20 21:32 8976 Feb 20 19:53 8976 Feb 24 10:32 8976 Feb 26 08:29 8976 Mar 01 00:11 8976 Mar 07 02:30 8976 Mar 08 07:30 8976 Mar 21 00:27 8976 Mar 22 09:21 8976 Mar 29 05:09 8976 Apr 02 23:16 8976 Apr 14 19:27	17°♂37'28 0°≈ 0°¥ 6°¥15'49 13°¥07'23 10°¥46'41 9°¥10'18 5°¥42'24 4°¥17'36 4°¥23'05 30°R≈ 28°≈20'15 27°≈03'34 0°¥ 1°¥07'40 17°¥41'19 19°¥42'47 0°♥ 7°♥17'11 25°♥45'46	0.67858 AU 1°15'13 1°14'43 19°39'07 -0.7m	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	8976 Dec 11 06:29 8976 Dec 25 03:45 8977 Jan 10 10:48 8977 Jan 23 02:01 8977 Jan 29 05:29 8977 Feb 02 11:13 8977 Feb 02 20:32 8977 Feb 04 00:25 8977 Feb 03 23:49 8977 Feb 12 23:12 8977 Feb 19 16:20 8977 Mar 02 20:05 8977 Mar 09 06:15 8977 Mar 13 09:55 8977 Mar 22 02:48 8977 Mar 28 12:27 8977 Mar 29 19:10 8977 Mar 29 11:05	0°♂ 8°♂10'39 0°≈ 20°≈03'42 27°≈15'06 24°≈44'52 20°≈15'04 19°≈46'20 18°≈19'19 18°≈21'10 12°≈30'58 11°≈33'10 15°≈12'06 0°ℋ 9°ℋ54'00 16°ℋ23'23 0°♈ 10°♈00'54	0.66961 AU 0°23'00 0°22'57 18°46'12 1.45427 AU -1°57'54
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist.	8975 Dec 25 09:28 8976 Jan 01 20:46 8976 Jan 23 04:22 8976 Jan 28 21:34 8976 Feb 09 16:21 8976 Feb 15 07:32 8976 Feb 16 23:24 8976 Feb 20 21:32 8976 Feb 20 19:53 8976 Feb 20 19:53 8976 Feb 24 10:32 8976 Feb 26 08:29 8976 Mar 01 00:11 8976 Mar 07 02:30 8976 Mar 08 07:30 8976 Mar 21 00:27 8976 Mar 22 09:21 8976 Mar 29 05:09 8976 Apr 02 23:16 8976 Apr 14 19:27 8976 Apr 17 11:22	17°る37'28 0°≈ 0°升 6°升15'49 13°升07'23 10°升46'41 9°升10'18 5°升42'24 4°升17'36 4°升23'05 30°隔≈ 28°≈20'15 27°≈03'34 0°升 1°升41'19 19°升42'47 0°个 7°个17'11 25°个45'46 0°署	0.67858 AU 1°15'13 1°14'43 19°39'07 -0.7m	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	8976 Dec 11 06:29 8976 Dec 25 03:45 8977 Jan 10 10:48 8977 Jan 23 02:01 8977 Jan 29 05:29 8977 Feb 02 11:13 8977 Feb 02 20:32 8977 Feb 04 00:25 8977 Feb 03 23:49 8977 Feb 12 23:12 8977 Feb 19 16:20 8977 Mar 02 20:05 8977 Mar 09 06:15 8977 Mar 13 09:55 8977 Mar 22 02:48 8977 Mar 28 12:27 8977 Mar 29 11:05 8977 Mar 29 11:05 8977 Mar 29 11:05	0°る 8°る10'39 0°≈ 20°≈03'42 27°≈15'06 24°≈44'52 20°≈15'04 19°≈46'20 18°≈19'19 18°≈21'10 12°≈30'58 11°≈33'10 15°≈12'06 0°米 9°米54'00 16°¥23'23 0°Y 10°Y'00'54 12°Y'01'16 11°Y'29'36 0°8	0.66961 AU 0°23'00 0°22'57 18°46'12 1.45427 AU -1°57'54
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist.	8975 Dec 25 09:28 8976 Jan 01 20:46 8976 Jan 23 04:22 8976 Jan 28 21:34 8976 Feb 09 16:21 8976 Feb 15 07:32 8976 Feb 16 23:24 8976 Feb 19 19:50 8976 Feb 20 21:32 8976 Feb 20 19:53 8976 Feb 24 10:32 8976 Feb 26 08:29 8976 Mar 01 00:11 8976 Mar 07 02:30 8976 Mar 08 07:30 8976 Mar 21 00:27 8976 Mar 22 09:21 8976 Mar 29 05:09 8976 Apr 02 23:16 8976 Apr 14 19:27 8976 Apr 17 11:22	17°る37'28 0°≈ 0°升 6°升15'49 13°升07'23 10°升46'41 9°升10'18 5°升42'24 4°升17'36 4°升23'05 30°R≈ 28°≈20'15 27°≈03'34 0°升 1°升41'19 19°升42'47 0°个 7°个17'11 25°个45'46 0°뭥	0.67858 AU 1°15'13 1°14'43 19°39'07 -0.7m	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	8976 Dec 11 06:29 8976 Dec 25 03:45 8977 Jan 10 10:48 8977 Jan 23 02:01 8977 Jan 29 05:29 8977 Feb 02 11:13 8977 Feb 02 20:32 8977 Feb 03 23:49 8977 Feb 09 18:48 8977 Feb 12 23:12 8977 Feb 12 23:12 8977 Feb 19 16:20 8977 Mar 02 20:05 8977 Mar 09 06:15 8977 Mar 13 09:55 8977 Mar 22 02:48 8977 Mar 28 12:27 8977 Mar 29 11:05 8977 Apr 10 03:52 8977 Apr 14 02:26	0°♂ 8°♂10'39 0°≈ 20°≈03'42 27°≈15'06 24°≈44'52 20°≈15'04 19°≈46'20 18°≈19'19 18°≈21'10 12°≈30'58 11°≈33'10 15°≈12'06 0°₩ 9°₩54'00 16°₩23'23 0°Ψ 10°Ψ00'54 12°Ψ01'16 11°Ψ29'36 0°℧ 6°℧19'16	0.66961 AU 0°23'00 0°22'57 18°46'12 1.45427 AU -1°57'54 1°57'24
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist.	8975 Dec 25 09:28 8976 Jan 01 20:46 8976 Jan 23 04:22 8976 Jan 28 21:34 8976 Feb 09 16:21 8976 Feb 15 07:32 8976 Feb 16 23:24 8976 Feb 19 19:50 8976 Feb 20 21:32 8976 Feb 20 19:53 8976 Feb 24 10:32 8976 Feb 26 08:29 8976 Mar 01 00:11 8976 Mar 07 02:30 8976 Mar 08 07:30 8976 Mar 21 00:27 8976 Mar 22 09:21 8976 Mar 29 05:09 8976 Apr 12 02:316 8976 Apr 14 19:27 8976 Apr 17 11:22	17°る37'28 0°≈ 0°	0.67858 AU 1°15'13 1°14'43 19°39'07 -0.7m	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	8976 Dec 11 06:29 8976 Dec 25 03:45 8977 Jan 10 10:48 8977 Jan 23 02:01 8977 Jan 29 05:29 8977 Feb 02 11:13 8977 Feb 02 20:32 8977 Feb 03 23:49 8977 Feb 09 18:48 8977 Feb 12 23:12 8977 Feb 12 23:12 8977 Feb 19 16:20 8977 Mar 02 20:05 8977 Mar 09 06:15 8977 Mar 13 09:55 8977 Mar 22 02:48 8977 Mar 28 12:27 8977 Mar 29 11:05 8977 Apr 10 03:52 8977 Apr 10 03:52 8977 Apr 20 19:13	0°♂ 8°♂10'39 0°≈ 20°≈03'42 27°≈15'06 24°≈44'52 20°≈15'04 19°≈46'20 18°≈19'19 18°≈21'10 12°≈30'58 11°≈33'10 15°≈12'06 0°₩ 9°₩54'00 16°₩23'23 0°Ψ 10°Ψ00'54 12°Ψ01'16 11°Ψ29'36 0°℧ 6°℧19'16 17°℧06'10	0.66961 AU 0°23'00 0°22'57 18°46'12 1.45427 AU -1°57'54 1°57'24
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist.	8975 Dec 25 09:28 8976 Jan 01 20:46 8976 Jan 23 04:22 8976 Jan 28 21:34 8976 Feb 09 16:21 8976 Feb 15 07:32 8976 Feb 16 23:24 8976 Feb 19 19:50 8976 Feb 20 21:32 8976 Feb 20 19:53 8976 Feb 24 10:32 8976 Feb 26 08:29 8976 Mar 01 00:11 8976 Mar 07 02:30 8976 Mar 08 07:30 8976 Mar 21 00:27 8976 Mar 22 09:21 8976 Mar 29 05:09 8976 Apr 12 19:27 8976 Apr 14 19:27 8976 Apr 17 11:22	17°♂37'28 0°≈ 0°₭ 6°₭15'49 13°₭07'23 10°₭46'41 9°₭10'18 5°₭42'24 4°₭17'36 4°₭23'05 30°₨≈ 28°≈20'15 27°≈03'34 0°₭ 1°₭07'40 17°₭41'19 19°₭42'47 0°♥ 7°♥17'11 25°♥45'46 0°℧ 3°℧02'23 2°℧56'57 25°℧42'16	0.67858 AU 1°15'13 1°14'43 19°39'07 -0.7m	evening max el retrograde evening set min. Earth dist. asc. node 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	8976 Dec 11 06:29 8976 Dec 25 03:45 8977 Jan 10 10:48 8977 Jan 23 02:01 8977 Jan 29 05:29 8977 Feb 02 11:13 8977 Feb 02 20:32 8977 Feb 03 23:49 8977 Feb 09 18:48 8977 Feb 12 23:12 8977 Feb 12 23:12 8977 Feb 19 16:20 8977 Mar 02 20:05 8977 Mar 09 06:15 8977 Mar 22 02:48 8977 Mar 22 02:48 8977 Mar 29 11:05 8977 Mar 29 11:05 8977 Apr 10 03:52 8977 Apr 10 03:52 8977 Apr 20 19:13 8977 Apr 29 04:16	0°♂ 8°♂10'39 0°≈ 20°≈03'42 27°≈15'06 24°≈44'52 20°≈15'04 19°≈46'20 18°≈19'19 18°≈21'10 12°≈30'58 11°≈33'10 15°≈12'06 0°ℋ 9°ℋ54'00 16°ℋ23'23 0°♈ 10°℉00'54 12°℉01'16 11°℉29'36 0°♂ 6°♂19'16 17°♂06'10 0°Ⅲ 3°Ⅲ33'46	0.66961 AU 0°23'00 0°22'57 18°46'12 1.45427 AU -1°57'54 1°57'24

retrograde	8977 May 11 13:02	10° Ⅱ 49'03			8978 Apr 03 04:02	0° ႘	
evening set	8977 May 14 18:34	9° Ⅱ 49'44		greatest brilliancy	8978 Apr 06 08:39	4° 8 51'37	-0.7m
inferior conj	8977 May 20 10:23	4° Ⅱ 13'19	3°18'14	evening max el	8978 Apr 18 07:38	20° 8 51'16	19°22'05
minimum elong	8977 May 20 11:16	4° Ⅱ 10′38	3°17'57	asc. node	8978 Apr 18 16:18	21° 8 12'49	
min. Earth dist.	8977 May 22 09:46	1° Ⅱ 49'06	0.65318 AU	retrograde	8978 Apr 25 09:53	24° 8 52'09	
	8977 May 23 23:58	30° ₹ 8		evening set	8978 Apr 28 23:31	23° 8 37'49	
morning rise	8977 May 26 03:12	27° 8 55'20		inferior conj	8978 May 04 09:51	17° 8 46'04	3°21'06
direct	8977 Jun 01 16:29	25° 8 09'30		minimum elong	8978 May 04 09:29	17° 8 47'15	3°20'54
desc. node	8977 Jun 05 06:07	25° 8 51'31		min. Earth dist.	8978 May 05 18:01	16° 8 01'04	0.66776 AU
	8977 Jun 11 18:41	Π°		morning rise	8978 May 09 19:04	11° 8 27'22	
morning max el	8977 Jun 15 00:42	3° Ⅱ 02'24	27°01'45	direct	8978 May 15 22:59	8° 8 44'16	
	8977 Jul 05 07:36	0ංම		desc. node	8978 May 23 03:07	11° 8 32'56	
morning set	8977 Jul 20 16:37	26°951'44		morning max el	8978 May 28 10:53	16° 8 12'27	25°53'08
	8977 Jul 22 07:22	$0^{\circ}\Omega$			8978 Jun 08 20:28	$\Pi^{\circ}0$	
max. Earth dist.	8977 Jul 25 01:23	5° Ω 29'00	1.33819 AU		8978 Jun 28 05:04	0 \circ \odot	
asc. node	8977 Jul 28 18:26	13° Ω 07'46		morning set	8978 Jul 03 13:18	9° © 32'04	
				max. Earth dist.	8978 Jul 07 08:17	16° © 39'14	1.35528 AU
superior conj	8977 Jul 29 04:13	13° Ω 59′03	0°04'06				
minimum elong	8977 Jul 29 04:00	13° Ω 57'57	0°03'52	superior conj	8978 Jul 12 22:17	27° © 39'51	-0°26'44
behind sun begin	8977 Jul 28 22:30	13° Ω 29'04		minimum elong	8978 Jul 12 23:53	27° © 47'53	0°26'39
behind sun end	8977 Jul 29 09:31	14° Ω 26'53			8978 Jul 14 01:54	$0 ^{\circ} \Omega$	
evening rise	8977 Aug 05 11:31	29° Ω 28'15		asc. node	8978 Jul 15 15:25	3° Ω 12′01	
	8977 Aug 05 17:33	0° m ∕		evening rise	8978 Jul 20 18:59	13° Ω 49'35	
	8977 Aug 23 06:45	0∘ ⊽			8978 Jul 29 03:53	0° m ∕	
evening max el	8977 Aug 25 18:09	2° ₽ 39'39	21°40'34	evening max el	8978 Aug 07 20:51	13° Mp 28'33	20°17'10
desc. node	8977 Sep 01 04:55	7° £ 23'56		retrograde	8978 Aug 18 16:33	18° ™ 49'55	
retrograde	8977 Sep 07 03:56	8° ≏ 49'10		desc. node	8978 Aug 19 02:04	18° m 49'31	
evening set	8977 Sep 09 21:14	8° ≏ 32'27		evening set	8978 Aug 20 15:49	18° m 40'03	
inferior conj	8977 Sep 19 00:41	4° ≏ 34'19		inferior conj	8978 Aug 29 18:36	14° m 42'06	
minimum elong	8977 Sep 18 15:39	4° ≙ 46'56	4°46'09	minimum elong	8978 Aug 29 10:08	14° m 54'31	3°08'57
min. Earth dist.	8977 Sep 18 20:39	4° £ 39'58	0.54706 AU	min. Earth dist.	8978 Aug 31 06:12	13° m 49'50	0.54893 AU
morning rise	8977 Sep 27 11:10	0° £ 44'58		morning rise	8978 Sep 07 03:36	10° m 34'32	
direct	8977 Oct 01 01:06	0° £ 16'59		direct	8978 Sep 11 11:05	9° m 54'29	
morning max el	8977 Oct 13 08:51	6° £ 06'57	22°03'24	morning max el	8978 Sep 24 22:35	16° Tp 28'04	23°48'55
asc. node	8977 Oct 24 18:18	21° ≏ 08'40			8978 Oct 05 18:19	0∘ ⊽	
	8977 Oct 29 15:19	0°M		asc. node	8978 Oct 11 15:15	9° £ 58'51	
morning set	8977 Nov 03 15:38	10°ML10'24		morning set	8978 Oct 19 03:17	24° £ 59'43	
	8977 Nov 10 18:34	250M 17157	1920/57		8978 Oct 21 11:12	0° M ₊	
superior conj minimum elong	8977 Nov 10 18:34 8977 Nov 10 19:16	25°M17'57 25°M21'36		superior conj	8978 Oct 26 01:09	9° M 57'51	1°40'19
minimum ciong	8977 Nov 10 19:10 8977 Nov 13 00:33	23 IIG21 30 0° ⊼ ¹	1 4007	minimum elong	8978 Oct 26 00:38	9°M55'01	1°40'28
max. Earth dist.	8977 Nov 13 00:33 8977 Nov 14 13:53	3° ∡ 11'43	1.34460 AU	max. Earth dist.	8978 Oct 28 12:02	15°M14'26	1.33070 AU
evening rise	8977 Nov 14 13:33 8977 Nov 18 23:34	11° × 755'59	1.54400 AU	evening rise	8978 Nov 02 13:58	25°M46'45	1.55070 AC
desc. node	8977 Nov 28 03:32	28° × ⁷ 30'54		evening rise	8978 Nov 04 17:09	0° ∡ 7	
dese. Hode	8977 Nov 29 00:44	0°る		desc. node	8978 Nov 15 00:36	18° × ⁷ 32'13	
	8977 Dec 20 09:31	0° ≈		dese. node	8978 Nov 22 10:45	0°る	
evening max el	8977 Dec 24 00:16	3° ≈ 44'19	26°56'00	evening max el	8978 Dec 06 12:47	17° る 06'23	27°25'40
retrograde	8978 Jan 06 05:55	11° ≈ 04'04		retrograde	8978 Dec 20 03:19	24° る 26'16	
evening set	8978 Jan 12 20:31	8° ≈ 29'02		evening set	8978 Dec 27 02:16	21° る 52'59	
min. Earth dist.	8978 Jan 16 20:28	4° ≈ 33'30	0.65696 AU	min. Earth dist.	8978 Dec 30 21:20	18° る 30'04	0.64091 AU
inferior conj	8978 Jan 18 21:19	2° ≈ 12'58	-0°37'04	inferior conj	8979 Jan 02 09:42	15° ප 52'41	-1°43'54
minimum elong	8978 Jan 18 22:22	2°≈09'55		minimum elong	8979 Jan 02 12:57	15° පි 44'11	1°42'19
asc. node	8978 Jan 20 17:38	0° ≈ 08'51		asc. node	8979 Jan 07 14:43	11° ප 15'16	
	8978 Jan 20 20:58	30°₹₹		morning rise	8979 Jan 09 01:21	10° る 30'29	
morning rise	8978 Jan 25 01:22	26° පි 36'12		direct	8979 Jan 11 12:38	9° る 59'50	
direct	8978 Jan 27 20:14	25° る 53'50		morning max el	8979 Jan 17 23:54	13° る 21'49	17°50'40
morning max el	8978 Feb 03 06:42	29° る 19'07	18°09'53		8979 Jan 29 14:18	0° ≈	
	8978 Feb 03 22:42	0° ≈		morning set	8979 Feb 03 19:35	8° ≈ 49'53	
morning set	8978 Feb 22 00:38	26° ≈ 55'15		desc. node	8979 Feb 11 00:02	20° ≈ 55′28	
	8978 Feb 23 22:15	0° ℋ					
desc. node	8978 Feb 24 03:08	0°) 19'45		superior conj	8979 Feb 16 21:27	0°) 35′06	
				minimum elong	8979 Feb 16 16:44	0°) 16′01	0°41'24
superior conj	8978 Mar 09 01:08	20° ∺ 55'32	-1°25'08		8979 Feb 16 12:47	0°) €	
minimum elong	8978 Mar 08 15:59	20° ∺ 19'33		max. Earth dist.	8979 Feb 22 03:44	9° ₩ 00'22	1.44859 AU
max. Earth dist.	8978 Mar 11 08:13		1.45514 AU	evening rise	8979 Mar 04 16:50	25° ∺ 25'40	
	8978 Mar 14 20:13	0°Υ			8979 Mar 07 16:36	0° Υ	
evening rise	8978 Mar 25 04:17	16° Ƴ 05'06			8979 Mar 28 11:43	9° 8	

ovening may al	9070 Apr 01 10:22	4° 8 30'44	20.50.55		8980 Feb 09 02:48	0° }{	
evening max el	8979 Apr 01 10:32	7° 8 54'52	20 20 22			0 X 4° ¥ 58'14	
asc. node	8979 Apr 05 13:25	_		evening rise	8980 Feb 12 06:54	4°π3814 0°Υ	
retrograde	8979 Apr 09 08:27	9° 8 06'50			8980 Feb 29 01:32		21020140
evening set	8979 Apr 13 07:01	7° 8 37'12	2011115	evening max el	8980 Mar 14 07:52	18° Y 11′25	21°30'48
inferior conj	8979 Apr 18 14:38	• • • • •		asc. node	8980 Mar 22 10:32	23° Y 25′12	
minimum elong	8979 Apr 18 13:16	1° 8 36'31	3°10'57	retrograde	8980 Mar 23 06:41	23° Y 28'45	
min. Earth dist.	8979 Apr 19 08:31	0° 8 30'48	0.67789 AU	evening set	8980 Mar 27 15:15	21° Y 43'55	
	8979 Apr 19 17:37	30° ŖƳ		inferior conj	8980 Apr 01 22:27	15° Y 27'29	2°50'40
morning rise	8979 Apr 23 19:18	25° Y 15′02		minimum elong	8980 Apr 01 20:27	15° Ƴ 34'26	2°50'11
direct	8979 Apr 29 10:55	22° Ƴ 44'02		min. Earth dist.	8980 Apr 02 03:16	15° Ƴ 10'41	0.68354 AU
desc. node	8979 May 10 00:04	28° Ƴ 43'11		morning rise	8980 Apr 07 01:28	9° Ƴ 14'09	
morning max el	8979 May 10 20:16	29° Ƴ 33'15	24°28'50	direct	8980 Apr 12 03:26	7° Ƴ 01'27	
	8979 May 11 06:43	9° 8		morning max el	8980 Apr 22 06:14	13° Y 01'20	22°58'58
	8979 Jun 02 16:22	$\Pi^{\circ}0$		desc. node	8980 Apr 25 20:59	16° Ƴ 58'14	
morning set	8979 Jun 15 15:31	21° Ⅱ 18′05			8980 May 05 21:32	$8^{\circ 0}$	
max. Earth dist.	8979 Jun 19 06:52	27° Ⅱ 46'40	1.37609 AU		8980 May 25 13:39	Π $^{\circ}0$	
	8979 Jun 20 12:08	0° ©		morning set	8980 May 26 17:55	1° Ⅱ 56'40	
				max. Earth dist.	8980 May 31 03:11	9° Ⅱ 21'16	1.39868 AU
superior conj	8979 Jun 26 05:08	10°944'59	-0°59'03		•		
minimum elong	8979 Jun 26 08:51	11° © 02'59	0°58'39	superior conj	8980 Jun 07 20:48	23° Ⅱ 05'28	-1°30'12
asc. node	8979 Jul 02 12:23	23°509'48		minimum elong	8980 Jun 08 02:22	23° Ⅱ 31′02	1°29'42
evening rise	8979 Jul 04 20:47	27°950'52			8980 Jun 11 14:04	0.ಣ	
evening rise	8979 Jul 05 22:50	0°Ω		evening rise	8980 Jun 17 13:55	11° © 24'26	
evening max el	8979 Jul 21 12:49	25° Ω 01'59	19°13'44	asc. node	8980 Jun 18 09:23	12°957'18	
retrograde	8979 Jul 30 16:18	29° Ω 33'48	17 15 44	use. Houe	8980 Jun 27 23:12	0°Ω	
evening set	8979 Aug 01 13:10	29° Ω 23'15		evening max el	8980 Jul 03 15:39	7° Ω 17'39	18°31'17
desc. node	-	29 δί 23 13 27° Ω 44'40		retrograde	8980 Jul 11 10:11	11° Ω 10'15	10 31 17
	8979 Aug 05 23:13		1015150				
inferior conj	8979 Aug 10 01:44	25° Ω 12'46		evening set	8980 Jul 13 12:39	10° Ω 54'06	0920154
minimum elong	8979 Aug 09 22:23	25° Ω 18'22		inferior conj	8980 Jul 21 05:42	6° Ω 24'40	0°28'54
min. Earth dist.	8979 Aug 12 19:15	23° Ω 23'47	0.55992 AU	minimum elong	8980 Jul 21 06:44	6° Ω 22'37	0°28'17
morning rise	8979 Aug 18 04:43	20° Ω 30'40		desc. node	8980 Jul 22 20:19	5° Ω 08'46	0.55500 111
direct	8979 Aug 23 07:43	19° Ω 30'18		min. Earth dist.	8980 Jul 24 13:36	3° Ω 49'39	0.57799 AU
morning max el	8979 Sep 06 11:06	26° Ω 40'59	25°31'30	morning rise	8980 Jul 28 21:18	1° Ω 05'40	
	8979 Sep 09 15:48	0° т р			8980 Jul 31 18:40	30°₹ ©	
asc. node	8979 Sep 28 12:10	29° Mp 16'52		direct	8980 Aug 03 19:10	29° © 36'31	
	8979 Sep 28 20:56	0 ∘ ⊽			8980 Aug 06 20:42	0 $^{\circ}\Omega$	
morning set	8979 Oct 03 14:44	9° ≏ 46'01		morning max el	8980 Aug 18 04:09	7° Ω 14'15	26°54'03
					8980 Sep 04 04:37	O° m y	
superior conj	8979 Oct 10 11:16	24° £ 45'47		asc. node	8980 Sep 14 09:05	18° m y 55'11	
minimum elong	8979 Oct 10 09:48	24° ≏ 37'38	1°34'39	morning set	8980 Sep 17 00:20	24° Mp 24'20	
max. Earth dist.	8979 Oct 11 17:07	27° ≙ 30′00	1.32126 AU		8980 Sep 19 14:43	0∘ ⊽	
	8979 Oct 12 20:32	0°M					
evening rise	8979 Oct 17 13:14	10°ML00'35		superior conj	8980 Sep 23 22:58	9° ჲ 35'29	1°23'28
	8979 Oct 28 00:23	0° ∡ ¹		minimum elong	8980 Sep 23 20:53	9° ჲ 23'57	1°23'15
desc. node	8979 Nov 01 21:42	8° ₰ 06'39		max. Earth dist.	8980 Sep 24 02:14	9° ≙ 53'41	1.31647 AU
	8979 Nov 18 23:29	0°ರ		evening rise	8980 Sep 30 18:41	24° ≙ 30′08	
evening max el	8979 Nov 18 22:11	29° ∡¹ 56'57	27°25'42		8980 Oct 03 10:07	0° M ₊	
retrograde	8979 Dec 02 17:45	7° る 12'39		desc. node	8980 Oct 18 18:49	27°M03'00	
evening set	8979 Dec 09 19:45	4°る50'09			8980 Oct 20 20:13	0° ∡ ¹	
min. Earth dist.	8979 Dec 13 12:11	1° る 54'46	0.62195 AU	evening max el	8980 Oct 31 02:04	12° ∡ ¹04'13	26°52'12
	8979 Dec 15 13:48	30°Ŗ ҂ 7		retrograde	8980 Nov 14 00:08	19° ∡ 13'35	
inferior conj	8979 Dec 16 10:38	29° √ 11'09	-2°55'04	evening set	8980 Nov 20 20:57	17° ∡ 12'39	
minimum elong	8979 Dec 16 16:17	28° ≯ 58'00		min. Earth dist.	8980 Nov 24 16:25	14° ∡ ³34'37	0.60122 AU
morning rise	8979 Dec 23 15:04	24° × ⁷ 06'50		inferior conj	8980 Nov 27 20:42	11° х 59'14	
asc. node	8979 Dec 25 11:46	23° х 44'57		minimum elong	8980 Nov 28 04:04		
direct	8979 Dec 25 21:12	23° х 44'15		morning rise	8980 Dec 05 13:41	7°×715'35	4 03 00
morning max el	8980 Jan 01 16:49	27° 🖈 12'19	17°49'12	direct	8980 Dec 03 13:41 8980 Dec 07 17:59	6° ₹ 57'35	
morning max ci	8980 Jan 04 04:21	27 メ ・12 19	1/ 7/14	asc. node	8980 Dec 07 17:39 8980 Dec 11 08:47	7° × ⁷ 49'41	
morning set	8980 Jan 04 04:21 8980 Jan 17 12:51	0°る 21° る 48'12		morning max el	8980 Dec 11 08:47 8980 Dec 15 06:00	10° × ¹ 49'41	18°06'35
morning set				morning max er			18 00 33
	8980 Jan 22 03:35	0° ≈			8980 Dec 27 22:55	0°る 5° ろ 20152	
	00001 20 10 10	110 - 2002	0000140	morning set	8980 Dec 30 22:06	5° る 30'53	
superior conj	8980 Jan 28 18:19	11°≈26'21	0°00'49		00011 00 17 15	2207270	0027120
minimum elong	8980 Jan 28 18:25	11°≈26'46	0°01'01	superior conj	8981 Jan 09 15:46	23° る 27'06	0°37'39
behind sun begin	8980 Jan 28 09:39	10°≈49'33		minimum elong	8981 Jan 09 18:30	23° る 39'19	0°37'29
behind sun end	8980 Jan 29 03:11	12°≈03'53			8981 Jan 13 09:01	0°≈	
desc. node	8980 Jan 28 20:57	11°≈37'29		desc. node	8981 Jan 14 17:52	2°≈21'36	
max. Earth dist.	8980 Feb 04 19:50	23°≈08'12	1.43542 AU	max. Earth dist.	8981 Jan 17 06:58	6° ≈ 40'42	1.41720 AU

	0001 I 22 11.55	1500 01 4102		JJ.	0000 I 01 14.51	220=04141	
evening rise	8981 Jan 22 11:55	15°≈14'02		desc. node	8982 Jan 01 14:51	23° る 04'41	
	8981 Jan 31 23:47	0° ∀		evening rise	8982 Jan 03 14:19	26° る 27'16	
	8981 Feb 23 05:11	0° Υ			8982 Jan 05 17:11	0° ≈	
evening max el	8981 Feb 25 00:41	1° Y 54'10	22°49'04		8982 Jan 25 15:02	0° ∀	
retrograde	8981 Mar 07 02:51	7° Y 52'50		evening max el	8982 Feb 07 14:53	15°) 40′29	24°09'14
asc. node	8981 Mar 09 07:40	7° Y 28'46		retrograde	8982 Feb 18 19:36	22°) (14′46	
evening set	8981 Mar 11 22:36	5° Ƴ 53'14		evening set	8982 Feb 24 03:33	20° ₩ 01'21	
	8981 Mar 16 22:18	30° ₹		asc. node	8982 Feb 24 04:48	19°) 58'41	
inferior conj	8981 Mar 17 07:17	29°) €28'50	2°20'33	min. Earth dist.	8982 Feb 28 20:16	14°)(37'04	0.68206 AU
minimum elong	8981 Mar 17 05:03	29°) 36'36	2°19'55	inferior conj	8982 Mar 01 15:16	13°) 32′53	1°41'33
min. Earth dist.	8981 Mar 16 23:57	29°) 54'17	0.68486 AU	minimum elong	8982 Mar 01 13:15	13°) €39'43	1°40'56
morning rise	8981 Mar 22 11:22	23° ¥ 20′29		morning rise	8982 Mar 06 23:00	7°) €31'01	
direct	8981 Mar 26 23:32	21°) (29'17		direct	8982 Mar 10 21:57	6° ₩ 01'58	
morning max el	8981 Apr 04 19:58	26°) 37'45	21022128	morning max el	8982 Mar 18 16:38	10° ¥ 25'53	20°16'33
morning max ci	8981 Apr 07 22:26	20 γ (37 4 3	21 32 36	desc. node	8982 Mar 30 14:46	25°\(\frac{7}{35}\)	20 10 33
desc. node		5° Υ 59'47		desc. Hode		23 γ 33 09	
desc. node	8981 Apr 12 17:53				8982 Apr 02 15:53	0 γ 19° Υ 47'42	
	8981 Apr 29 10:09	0° 8		morning set	8982 Apr 15 18:39		
morning set	8981 May 06 17:03	11° 8 20'03			8982 Apr 22 07:22	0°8	
max. Earth dist.	8981 May 13 03:54	21° 8 46'25	1.42029 AU	max. Earth dist.	8982 Apr 25 12:16	5° 8 06'11	1.43825 AU
	8981 May 18 01:38	Π $^{\circ}0$					
				superior conj	8982 May 01 12:49	14° 8 53'29	
superior conj	8981 May 20 16:44	4° Ⅲ 31'11	-1°56'03	minimum elong	8982 May 01 15:15	15° 8 03'29	2°11'03
minimum elong	8981 May 20 22:31	4° Ⅱ 56'17	1°55'49		8982 May 10 12:02	Π $^{\circ}0$	
evening rise	8981 May 31 18:32	24° Ⅱ 20'44		evening rise	8982 May 14 06:01	6° Ⅱ 28'58	
	8981 Jun 03 21:06	0°€		asc. node	8982 May 23 03:30	21° Ⅱ 41'17	
asc. node	8981 Jun 05 06:25	2° © 29'51			8982 May 28 17:30	0ം ഉ	
evening max el	8981 Jun 17 01:34	20°506'53	18°09'06	evening max el	8982 May 31 14:44	3° © 19'09	18°06'10
retrograde	8981 Jun 23 22:18	23° © 35'35	10 0) 00	retrograde	8982 Jun 07 01:01	6°939'37	10 00 10
evening set	8981 Jun 26 08:30	23°510'01		evening set	8982 Jun 09 18:49	6°902'03	
•	8981 Jul 03 06:57	18° © 20'08	1°47'57	inferior conj	8982 Jun 16 02:13	0° 9 52'35	2°40'11
inferior conj				3			2°39'20
minimum elong	8981 Jul 03 09:49	18°9513'37	1°46'49	minimum elong	8982 Jun 16 04:56	0°545'32	2-39-20
min. Earth dist.	8981 Jul 06 14:45	15° © 19'55	0.59989 AU	t water.	8982 Jun 16 22:19	30°Ŗ Ⅱ	0.60007.444
desc. node	8981 Jul 09 17:23	12° © 55'58		min. Earth dist.	8982 Jun 19 00:21	27° Ⅲ 51'12	0.62237 AU
morning rise	8981 Jul 10 08:13	12° © 32'22		morning rise	8982 Jun 22 13:08	24° ∏ 46′28	
direct	8981 Jul 16 19:48	10° © 32'12		desc. node	8982 Jun 26 14:27	22° Ⅱ 43'12	
morning max el	8981 Jul 31 03:55	18° © 26'31	27°43'49	direct	8982 Jun 29 06:49	22° Ⅱ 20'32	
	8981 Aug 09 20:57	0 \circ Ω			8982 Jul 13 00:44	0ಂ ತಾ	
	8981 Aug 27 21:36	O° Mp		morning max el	8982 Jul 13 09:44	0°\$22'20	27°55'28
morning set	8981 Sep 01 06:24	8° m 49'55			8982 Aug 03 23:17	$0^{\circ}\Omega$	
asc. node	8981 Sep 01 06:00	8° Mp 47'52		morning set	8982 Aug 16 06:48	22° Ω 55'52	
max. Earth dist.	8981 Sep 07 11:57	22° m/ 16'58	1.31637 AU	asc. node	8982 Aug 19 02:56	28° Ω 48'58	
		•			8982 Aug 19 16:22	0° m/	
superior conj	8981 Sep 08 10:26	24° m 21'19	1°07'09	max. Earth dist.	8982 Aug 21 18:21		1.32103 AU
minimum elong	8981 Sep 08 10:20	24° Mp 08'54	1°06'45	max. Lartii dist.	0702 Aug 21 10.21	4 11/2/33	1.52105 AO
minimum ciong	-	0° ʊ	1 00 43	aumarian aami	9092 Aug 22 10:47	00 m 56121	0°46'02
	8981 Sep 10 23:32			superior conj	8982 Aug 23 19:47	8° Mp 56'24	
evening rise	8981 Sep 15 04:07	9° ₽ 09'06		minimum elong	8982 Aug 23 17:53	8° Mp 46'02	0°45'33
	8981 Sep 25 19:28	0°M		evening rise	8982 Aug 30 15:29	23° m 50'12	
desc. node	8981 Oct 05 15:57	15°M06'23			8982 Sep 02 13:47	0∘ ত	
evening max el	8981 Oct 12 22:24	23°M21'44	25°45'58		8982 Sep 20 20:10	0°M₊	
	8981 Oct 23 16:02	0° ∡ 7		desc. node	8982 Sep 22 13:06	1°M55'02	
retrograde	8981 Oct 26 20:28	0° ∡ 23'58		evening max el	8982 Sep 24 11:24	3°M52'56	24°15'09
	8981 Oct 30 00:34	30°RM₊		retrograde	8982 Oct 08 04:40	10°M45'33	
evening set	8981 Nov 02 01:06	28°M54'13		evening set	8982 Oct 13 04:33	9°M50'35	
min. Earth dist.	8981 Nov 06 10:58	26°M18'02	0.58059 AU	min. Earth dist.	8982 Oct 18 22:11	6°M57'50	0.56260 AU
inferior conj	8981 Nov 09 12:32	24°M07'53	-5°04'52	inferior conj	8982 Oct 21 07:58	5°M28'24	-5°37'03
minimum elong	8981 Nov 09 19:14	23°M55'59		minimum elong	8982 Oct 21 09:41	5°M25'43	5°36'51
morning rise	8981 Nov 17 15:41	19°M46'39	0 00 20	morning rise	8982 Oct 29 16:54	1°M28'27	0 3001
direct	8981 Nov 17 13.41 8981 Nov 19 22:55	19°M29'55		direct	8982 Nov 01 08:44	1°M09'49	
asc. node	8981 Nov 19 22:33 8981 Nov 28 05:47	23°M23'12		morning max el	8982 Nov 11 06:25	5°M50'42	19°44'55
			10044124	Č			17 44 33
morning max el	8981 Nov 28 11:44	23°M37'20	18~44′34	asc. node	8982 Nov 15 02:47	10°M10'08	
	8981 Dec 03 16:34	0° ∡			8982 Nov 26 19:02	0° ∡ 7	
morning set	8981 Dec 14 18:28	19° ∡ ⁴44'01		morning set	8982 Nov 28 22:14	4° ҂ 16′24	
	8981 Dec 20 00:51	0°ප					
				superior conj	8982 Dec 06 18:31	20° ∡ 06′38	1°25'20
superior conj	8981 Dec 23 09:31	6° る 25'21	1°05'53	minimum elong	8982 Dec 06 21:09	20° ∡ 19'41	1°25'19
minimum elong	8981 Dec 23 12:49	6° ප 40'55	1°05'42		8982 Dec 11 21:17	℃ 0	
max. Earth dist.	8981 Dec 30 14:08	19° る 32'35	1.39607 AU	max. Earth dist.	8982 Dec 12 20:17	1° る 47'44	1.37438 AU

avanina riaa	9092 Dag 16 12:52	8° る 35'53		avanina riaa	9092 Nav. 20, 07-20	21° ₹ 32'04	
evening rise	8982 Dec 16 13:52			evening rise	8983 Nov 29 07:30	21° x '32'04	
desc. node	8982 Dec 19 11:52	13° る 42'35			8983 Dec 03 23:06		
	8982 Dec 29 12:18	0° ≈		desc. node	8983 Dec 06 08:54	4° る 10'56	
evening max el	8983 Jan 21 04:08	29° ≈ 28′51	25°24'34		8983 Dec 23 08:48	0° ≈	
	8983 Jan 21 17:00	0°) €		evening max el	8984 Jan 03 17:19	13° ≈ 14′06	26°27'51
retrograde	8983 Feb 02 07:58	6°) €29'33		retrograde	8984 Jan 16 15:15	20° ≈ 30′29	
evening set	8983 Feb 08 04:34	4°) 04′20		evening set	8984 Jan 22 23:50	17° ≈ 57'10	
asc. node	8983 Feb 11 01:56	1°) €06'24		min. Earth dist.	8984 Jan 27 02:54	13° ≈ 42'23	0.66467 AU
	8983 Feb 11 23:43	30°R≈		inferior conj	8984 Jan 28 21:10	11° ≈ 34'59	-0°01'34
min. Earth dist.	8983 Feb 12 14:00	29°≈14'55	0.67527 AU	minimum elong	8984 Jan 28 21:12	11° ≈ 34'53	0°01'21
	8983 Feb 13 20:35	27°≈36'22	0.07327 AO 0°54'04	transit middle	8984 Jan 28 21:12	11°≈34'53	0°01'21
inferior conj							0 01 21
minimum elong	8983 Feb 13 19:18	27°≈40'30	0°53'43	transit begin	8984 Jan 28 18:18	11°≈43'37	
morning rise	8983 Feb 19 10:24	21° ≈ 42'43		transit end	8984 Jan 29 00:05	11° ≈ 26′10	
direct	8983 Feb 22 21:12	20° ≈ 34′20		asc. node	8984 Jan 28 23:03	11° ≈ 29'18	
morning max el	8983 Mar 01 21:21	24° ≈ 25'46	19°14'41	morning rise	8984 Feb 03 19:26	5° ≈ 51'34	
	8983 Mar 06 16:21	0° ∀		direct	8984 Feb 06 19:32	5° ≈ 00'53	
greatest brilliancy	8983 Mar 14 22:59	11°) 46'29	-0.7m	morning max el	8984 Feb 13 08:56	8° ≈ 32'32	18°28'44
desc. node	8983 Mar 17 11:39	15°) 35′20		Č	8984 Feb 28 15:19	0° ∀	
morning set	8983 Mar 25 19:10	28°\(\frac{1}{2}\)20'53		desc. node	8984 Mar 03 08:33	5° ¥ 53'15	
morning set	8983 Mar 26 20:48	0°Υ			8984 Mar 04 16:50	8° X 01'16	
To de the			1 45020 411	morning set			
max. Earth dist.	8983 Apr 08 03:18	19° Ƴ 07'58	1.45038 AU		8984 Mar 18 15:41	0° Y	
superior conj	8983 Apr 11 09:09	24° Y 15'39		superior conj	8984 Mar 20 15:09	3° Y 05'45	-1°45'55
minimum elong	8983 Apr 11 04:38	23° Ƴ 57'47	2°08'29	minimum elong	8984 Mar 20 05:43	2° Y 28′50	1°45'05
	8983 Apr 14 23:29	9° 8		max. Earth dist.	8984 Mar 20 21:55	3° Ƴ 32'11	1.45549 AU
evening rise	8983 Apr 25 19:54	17° 8 40'45		evening rise	8984 Apr 05 10:01	27° Y 54'04	
Č	8983 May 03 07:19	0° I I		Č	8984 Apr 06 17:50	0° ႘	
asc. node	8983 May 10 00:36	10° ∏ 24'41		greatest brilliancy	8984 Apr 14 18:20	12° 8 38'57	-0.8m
evening max el	8983 May 15 03:56	16° Ⅱ 46'17	18°21'49	asc. node	8984 Apr 25 21:44	28° 8 30'17	0.0111
•	•		10 21 49	asc. nouc	•		
retrograde	8983 May 21 13:48	20° Ⅱ 12'53			8984 Apr 27 06:15	0°II	10055115
evening set	8983 May 24 14:59	19° ∏ 21'45		evening max el	8984 Apr 27 14:27	0° Ⅲ 21′00	18°55'17
inferior conj	8983 May 30 11:23	13° ∏ 54'30	3°09'41	retrograde	8984 May 04 08:39	4° Ⅱ 06′27	
minimum elong	8983 May 30 13:01	13° Ⅱ 49'46	3°09'15	evening set	8984 May 07 17:28	3° Ⅱ 00'53	
min. Earth dist.	8983 Jun 01 19:25	11° Ⅱ 12'26	0.64285 AU		8984 May 11 00:57	30° ₹ 8	
morning rise	8983 Jun 05 09:58	7° Ⅲ 38'48		inferior conj	8984 May 13 06:33	27° 8 17'35	3°21'10
direct	8983 Jun 12 02:24	4° ∏ 57'05		minimum elong	8984 May 13 06:53	27° 8 16'33	3°20'57
desc. node	8983 Jun 13 11:29	5° Ⅱ 03'19		min. Earth dist.	8984 May 14 23:22	25° 8 09'05	0.65984 AU
morning max el	8983 Jun 25 19:25	12° Ⅱ 56'57	27°30'30	morning rise	8984 May 18 19:44	20° 8 58'35	0.02701710
morning max er			27 30 30	•	•		
	8983 Jul 09 11:24	0° ©		direct	8984 May 25 05:21	18° 8 12'41	
	8983 Jul 27 12:51	$0^{\circ}\Omega$		desc. node	8984 May 30 08:28	19° 8 39'30	
morning set	8983 Jul 30 23:08	6° Ω 36′03		morning max el	8984 Jun 07 06:06	25° 8 57'42	26°35'10
max. Earth dist.	8983 Aug 04 17:41	16° Ω 16′25	1.33054 AU		8984 Jun 10 23:11	Π $^{\circ}0$	
asc. node	8983 Aug 05 23:54	18° Ω 54'34			8984 Jul 02 00:40	0ಂ ತಾ	
				morning set	8984 Jul 13 04:08	19° 5 541'20	
superior conj	8983 Aug 08 01:06	23° Ω 15'34	0°20'32	max. Earth dist.	8984 Jul 17 06:38	27° © 37'40	1.34488 AU
minimum elong	8983 Aug 08 00:06	23° Ω 10'15	0°20'09		8984 Jul 18 11:13	$0^{\circ}\Omega$	
minimum crong	8983 Aug 11 04:17	0° m	0 20 0)		0,01,001 10 11.15	v 00	
evening rise	-			gunariar agni	9094 Iul 22 00:01	7° Ω 12'07	0000142
evening lise	8983 Aug 15 02:55 8983 Aug 26 07:41	8°₱28'16 0°₽		superior conj	8984 Jul 22 00:01 8984 Jul 22 00:31	7° Ω 14'41	0°08'48
	_			minimum elong			0.08.48
evening max el	8983 Sep 05 22:57	14° £ 03'24	22~35'19	behind sun begin	8984 Jul 21 19:36	6° Ω 49'16	
desc. node	8983 Sep 09 10:15	17° ≏ 01'38		behind sun end	8984 Jul 22 05:26	7° Ω 40'08	
retrograde	8983 Sep 19 00:49	20° ≏ 34'50		asc. node	8984 Jul 22 20:53	9° Ω 00'20	
evening set	8983 Sep 22 12:27	20° ≏ 08'08		evening rise	8984 Jul 29 12:25	22° Ω 57′07	
min. Earth dist.	8983 Sep 30 06:13	16° ≏ 41'30	0.55037 AU		8984 Aug 01 23:02	0° m	
inferior conj	8983 Oct 01 09:10	16° ≏ 03'14	-5°22'21	evening max el	8984 Aug 17 18:19	24° Mp 30'31	21°02'53
minimum elong	8983 Oct 01 03:10	16° ≏ 11'46		desc. node	8984 Aug 26 07:23	29° m 55'05	
morning rise	8983 Oct 09 19:46	12° ⊆ 15'25			8984 Aug 26 15:01	0ಂ ರ	
direct	8983 Oct 13 00:37	12 ⊆ 13 23		ratrograda	•	0° £ 21′20	
			21907/20	retrograde	8984 Aug 29 13:26		
morning max el	8983 Oct 24 11:59		21°07'29	evening set	8984 Aug 31 20:30	0° Ω 08'55	
asc. node	8983 Nov 01 23:45	27° Ω 55'15			8984 Sep 01 14:00	30°R, Mp	
	8983 Nov 03 06:51	0° M ₊		inferior conj	8984 Sep 10 01:40	26° Mp 12'23	
morning set	8983 Nov 13 06:42	19°M00'13		minimum elong	8984 Sep 09 15:59	26° № 26'04	4°09'17
	8983 Nov 18 12:43	0° ⊀ ¹		min. Earth dist.	8984 Sep 10 14:55	25° m 53'38	0.54662 AU
				morning rise	8984 Sep 18 11:49	22° m 17'36	
superior conj	8983 Nov 20 14:29	4° ≯ 18'42	1°36'42	direct	8984 Sep 22 08:36	21° m/45'30	
minimum elong	8983 Nov 20 15:56	4° ₹ ¹26'08	1°36'51	morning max el	8984 Oct 05 06:02	27° m 55'01	22°47'36
max. Earth dist.	8983 Nov 25 05:59	13° ₹ 42'31	1.35448 AU	morning max ci	8984 Oct 07 07:55	0° ت 1∭3301	22 4/30
max. Earui üist.	0703 INOV 43 US.39	13 X-4231	1.55 11 0 AU		0704 OCL 0/ 0/.33	0 ==	

1-	0004 0-4 10 20.42	169 0 25112			0005 0-+ 02 17.50	000	
asc. node	8984 Oct 18 20:42	16° £ 25'12			8985 Oct 02 17:59	0∘ ⊽	
	8984 Oct 25 21:51	0° M		asc. node	8985 Oct 05 17:38	5° £ 28'26	
morning set	8984 Oct 27 17:43	3°M49'25		morning set	8985 Oct 12 05:28	18° ≏ 38'02	
					8985 Oct 17 10:56	0°M₊	
superior conj	8984 Nov 03 18:01	18°M51'31	1°40'52				
minimum elong	8984 Nov 03 18:10	18° M ⋅52'21	1°41'04	superior conj	8985 Oct 19 02:21	3°M35'56	1°38'37
max. Earth dist.	8984 Nov 06 23:04	25°M37'53	1.33809 AU	minimum elong	8985 Oct 19 01:23	3°M30'40	1°38'43
	8984 Nov 09 02:04	0° ∡ ¹		max. Earth dist.	8985 Oct 21 00:17	7°M45'46	1.32610 AU
evening rise	8984 Nov 11 15:24	5° ⊀ 06'22		evening rise	8985 Oct 26 09:56	19° ™ 08′25	
desc. node	8984 Nov 22 05:58	24° ∡ ¹24'29			8985 Oct 31 23:08	0° ∡ ¹	
	8984 Nov 25 16:11	0°రె		desc. node	8985 Nov 09 03:02	14° ∡ 15'42	
evening max el	8984 Dec 16 06:24	26° ♂ 48'22	27°11'51		8985 Nov 19 21:41	8°0	
Č	8984 Dec 19 22:42	0° ≈		evening max el	8985 Nov 28 18:00	9° る 59'21	27°29'40
retrograde	8984 Dec 29 16:43	4°≈09'58		retrograde	8985 Dec 12 11:26	17° る 17'59	
evening set	8985 Jan 05 11:17	1° ≈ 34'31		evening set	8985 Dec 19 12:13	14° る 48'22	
evening sec	8985 Jan 07 07:11	30°R₹		min. Earth dist.	8985 Dec 23 05:50	11° る 37'41	0.63313 AU
min. Earth dist.	8985 Jan 09 08:53	• -	0.65049 AU	inferior conj	8985 Dec 25 22:41	8° ප 56'12	
	8985 Jan 11 14:46					8°る45'32	
inferior conj		25°₹24'07		minimum elong	8985 Dec 26 02:57		2-11-50
minimum elong	8985 Jan 11 16:42	25°る18'46	1°03'37	morning rise	8986 Jan 01 19:40	3°る40'58	
asc. node	8985 Jan 14 20:06	22° る 04'44		asc. node	8986 Jan 01 17:09	3° ප් 43'22	
morning rise	8985 Jan 17 23:35	19° る 53'19		direct	8986 Jan 04 04:21	3° る 14'13	
direct	8985 Jan 20 14:50	19° る 16'34		morning max el	8986 Jan 10 18:20	6° る 38'02	17°47'44
morning max el	8985 Jan 27 00:55	22° る 39'31	17°59'34		8986 Jan 26 03:29	0° ≈	
	8985 Feb 01 21:15	0° ≈		morning set	8986 Jan 27 01:22	1° ≈ 34'55	
morning set	8985 Feb 13 20:05	19° ≈ 10′22		desc. node	8986 Feb 05 02:22	17° ≈ 03'04	
desc. node	8985 Feb 18 05:28	26° ≈ 24'09					
	8985 Feb 20 10:21	0° ∀		superior conj	8986 Feb 08 07:31	22° ≈ 23'39	-0°23'30
				minimum elong	8986 Feb 08 05:02	22°≈13'24	0°22'58
superior conj	8985 Feb 28 01:22	12°) 14′59	-1°07'32	S	8986 Feb 12 23:40	0° ∀	
minimum elong	8985 Feb 27 17:43	11°) 44'40	1°06'29	max. Earth dist.	8986 Feb 14 11:25		1.44378 AU
max. Earth dist.	8985 Mar 03 17:19	18°) €02'14	1.45321 AU	evening rise	8986 Feb 23 15:50	16°) 46'00	1.1.570110
max. Earth dist.	8985 Mar 11 09:26	0°Υ	1.13321710	evening rise	8986 Mar 04 09:29	0°Υ	
evening rise	8985 Mar 16 04:36	7° Υ 24'48		evening max el	8986 Mar 24 21:03	27° Υ 40'09	20°49'07
•		28° Υ 39'14	-0.6m	evening max ci		0° 8	20 49 07
greatest brilliancy	8985 Mar 30 04:04		-0.om	1	8986 Mar 27 10:12	_	
	8985 Mar 31 02:03	0° 8	10045100	asc. node	8986 Mar 30 15:55	2° 8 00'21	
evening max el	8985 Apr 10 20:27	13° 8 59'33	19°45'09	retrograde	8986 Apr 02 05:00	2° 8 32'58	
asc. node	8985 Apr 12 18:49	15° 8 46'44		evening set	8986 Apr 06 07:41	0° 8 56'57	
retrograde	8985 Apr 18 06:28	18° 8 14'40			8986 Apr 07 09:32	30° ₹Ƴ	
evening set	8985 Apr 21 23:42	16° 8 54'03		inferior conj	8986 Apr 11 14:54	24° Y 46'52	
inferior conj	8985 Apr 27 08:34	10° 8 56'24	3°18'19	minimum elong	8986 Apr 11 13:13	24° Ƴ 52'38	3°03'21
minimum elong	8985 Apr 27 07:45	10° 8 59'09	3°18'06	min. Earth dist.	8986 Apr 12 03:10	24° Ƴ 04'31	0.68089 AU
min. Earth dist.	8985 Apr 28 10:37	9° 8 29'28	0.67263 AU	morning rise	8986 Apr 16 18:32	18° Ƴ 31'24	
morning rise	8985 May 02 15:28	4° 8 38'01		direct	8986 Apr 22 04:34	16° Ƴ 07'22	
direct	8985 May 08 14:26	1° 8 58'49		morning max el	8986 May 03 00:55	22° Ƴ 36′04	23°50'37
desc. node	8985 May 17 05:27	6° 8 01'42		desc. node	8986 May 04 02:24	23° Y 42'06	
morning max el	8985 May 20 15:49	9° 8 12'45	25°18'28		8986 May 09 12:23	0°8	
C	8985 Jun 06 00:41	$\Pi^{\circ}0$			8986 May 30 08:31	$\Pi^{\circ}0$	
	8985 Jun 24 14:43	0°9		morning set	8986 Jun 07 10:17	13° Ⅱ 19'08	
morning set	8985 Jun 25 17:35	2°500'10		max. Earth dist.	8986 Jun 11 05:30	19° Ⅱ 55'49	1.38564 AU
max. Earth dist.	8985 Jun 29 08:54	8°9340'50	1.36370 AU		8986 Jun 16 18:37	0.ಪ	
max. Earth dist.	0)05 Juli 2) 00.54	0 34030	1.50570710		0700 Juli 10 10.57	0	
superior conj	8985 Jul 05 13:43	20°538'39	0.040,34	superior conj	8986 Jun 18 14:41	3°526'39	101226
minimum elong	8985 Jul 05 16:12	20°950'56	0°40'10	minimum elong	8986 Jun 18 19:18	3°548'24	1-12/08
asc. node	8985 Jul 09 17:52	29° © 02'15		asc. node	8986 Jun 26 14:51	18° © 56'32	
	8985 Jul 10 05:13	0 \circ Ω		evening rise	8986 Jun 27 16:17	21° © 01'07	
evening rise	8985 Jul 13 17:45	7° Ω 10′20			8986 Jul 02 08:23	$0^{\circ}\Omega$	
	8985 Jul 26 10:29	0° m		evening max el	8986 Jul 13 23:58	17° Ω 31'17	18°53'11
evening max el	8985 Jul 31 02:51	5° Mp 38′22	19°47'43	retrograde	8986 Jul 22 11:53	21° Ω 44'21	
retrograde	8985 Aug 10 05:06	10° m 37'38		evening set	8986 Jul 24 10:49	21° Ω 31'48	
evening set	8985 Aug 12 01:44	10° m 28'14		desc. node	8986 Jul 31 01:38	18° Ω 19'31	
desc. node	8985 Aug 13 04:31	10°M/14'00		inferior conj	8986 Aug 01 15:16	17° Ω 13'43	-0°28'48
inferior conj	8985 Aug 20 23:45	6° m 26'43	-2°22'56	minimum elong	8986 Aug 01 14:04	17° Ω 15'51	0°28'31
minimum elong	8985 Aug 20 17:15	6° m 36'43	2°20'38	min. Earth dist.	8986 Aug 04 16:55	15° Ω 03'21	0.56692 AU
min. Earth dist.	8985 Aug 23 02:02	5° m 09'24	0.55252 AU	morning rise	8986 Aug 09 14:01	12° Ω 15'54	
morning rise	8985 Aug 29 06:48	2° m/05'30		direct	8986 Aug 15 01:39	11° Ω 04'00	
direct	8985 Sep 02 22:35	1° mp 17'39		morning max el	8986 Aug 29 07:59	18° Ω 26'48	26°09'58
morning max el	8985 Sep 16 18:15	-	24°33'54	morning max ci	8986 Sep 08 00:18	0° Mp	20 07 30
morning max ci	5705 bep 10 10.13	0 11 1/ 00 32	<u> </u>		5700 Dep 00 00.18	עויי	

asc. node	8986 Sep 22 14:34	24° m 56'18		asc. node	8987 Sep 09 11:30	14° Mp41'16	
	8986 Sep 25 02:03	0∘ ত		morning set	8987 Sep 11 00:39	17° m 54'58	
morning set	8986 Sep 26 16:20	3° £ 21'42			8987 Sep 16 14:16	0∘ ⊽	
_	-			max. Earth dist.	8987 Sep 17 17:38	2° £ 31'52	1.31587 AU
superior conj	8986 Oct 03 13:22	18° ≙ 25'27	1°30'34		1		
minimum elong	8986 Oct 03 11:35	18° ⊆ 15'35	1°30'28	superior conj	8987 Sep 18 01:09	3° ഫ 13'38	1°17'10
max. Earth dist.	8986 Oct 04 07:40	20° £ 06'45	1.31870 AU		•	3° ⊆ 01'23	1°16'51
max. Earth dist.			1.516/0 AU	minimum elong	8987 Sep 17 22:57		1 10 31
	8986 Oct 08 20:26	0°M,		evening rise	8987 Sep 24 19:33	18° £ 04'06	
evening rise	8986 Oct 10 12:09	3°M30'14			8987 Sep 30 15:54	0° M .	
	8986 Oct 24 17:31	0°⊀		desc. node	8987 Oct 13 21:16	22°M11'29	
desc. node	8986 Oct 27 00:08	3° ∡ ³35'35			8987 Oct 19 23:22	0° ∡	
evening max el	8986 Nov 11 01:37	22° ҂ ³33'42	27°15'40	evening max el	8987 Oct 24 02:23	4° ⋌ 19'41	26°27'41
retrograde	8986 Nov 24 22:15	29° ∡ ¹45'47		retrograde	8987 Nov 07 00:22	11° ∡ ¹25'51	
evening set	8986 Dec 01 23:15	27° ∡ ³31'27		evening set	8987 Nov 13 16:06	9° ∡ ³36'58	
min. Earth dist.	8986 Dec 05 16:14	24° ₹ 44'50	0.61334 AU	min. Earth dist.	8987 Nov 17 15:49	7° ∡ 102'13	0.59232 AU
inferior conj	8986 Dec 08 17:44	22° ∡ 03'08		inferior conj	8987 Nov 20 20:25	4° ₹ 35'27	
minimum elong	8986 Dec 09 00:16	21°×748'43		minimum elong	8987 Nov 21 03:55	4°×721'00	
•		17° × 706'56	3 22 36	•		0° ₹ 01'27	4 30 39
morning rise	8986 Dec 16 03:36			morning rise	8987 Nov 28 18:10		
direct	8986 Dec 18 08:35	16° ∡ 46′35			8987 Nov 28 20:30	30°RM₁	
asc. node	8986 Dec 19 14:11	16° ≯ 53'09		direct	8987 Nov 30 23:14	29°M44'16	
morning max el	8986 Dec 25 10:01	20° ҂ 19'53	17°54'07		8987 Dec 03 00:49	0° ∡ ¹	
	8987 Jan 01 14:44	ව°0		asc. node	8987 Dec 06 11:13	1° ∡ ³37'14	
morning set	8987 Jan 10 02:07	14° ⋜ 54'18		morning max el	8987 Dec 08 20:30	3° ∡ ³36′13	18°20'11
	8987 Jan 18 11:32	0° ≈		morning set	8987 Dec 24 16:39	28° ₹ 51'51	
					8987 Dec 25 06:57	0°ರ	
superior conj	8987 Jan 20 15:08	3° ≈ 45'09	0°17'26				
minimum elong	8987 Jan 20 16:38	3°≈51'41	0°17'25	superior conj	8988 Jan 02 21:54	16° ප 12'51	0°50'43
desc. node	8987 Jan 22 23:17	7°≈46'20	0 17 23	minimum elong	8988 Jan 03 01:05	16° ろ 27'23	0°50'30
	8987 Jan 28 01:59	7 ≈40 20 16°≈19'22	1 42026 ATT	desc. node	8988 Jan 09 20:15	10 3 2723	0 30 30
max. Earth dist.			1.42826 AU				1 100 10 177
evening rise	8987 Feb 03 10:59	26°≈34'12		max. Earth dist.	8988 Jan 10 11:35	29° る 36'34	1.40842 AU
	8987 Feb 05 15:37	0° ∀			8988 Jan 10 17:04	0° ≈	
	8987 Feb 26 05:35	0 ° $\mathbf{\gamma}$		evening rise	8988 Jan 15 00:47	7°≈13'57	
evening max el	8987 Mar 07 16:21	11° Y 21'53	22°03'30		8988 Jan 29 18:13	0° ℋ	
retrograde	8987 Mar 17 02:25	16° Ƴ 56'32		evening max el	8988 Feb 18 07:43	25° ₩ 06'07	23°23'15
asc. node	8987 Mar 17 13:02	16° Ƴ 55'33			8988 Feb 24 09:33	0 ° $\mathbf{\gamma}$	
evening set	8987 Mar 21 15:44	15° Ƴ 05'10		retrograde	8988 Feb 28 21:21	1° Y 21'05	
inferior conj	8987 Mar 26 23:22	8° Ƴ 45'05	2°38'58	asc. node	8988 Mar 03 10:10	0° Y 20′10	
minimum elong	8987 Mar 26 21:13		2°38'26		8988 Mar 03 22:51	30°R) €	
min. Earth dist.	8987 Mar 26 22:53		0.68468 AU	evening set	8988 Mar 04 22:18	29° ₩ 15'08	
morning rise	8987 Apr 01 02:32	2° Υ 33'58	0.00400 AC	inferior conj	8988 Mar 10 08:05	22°) 48'21	2°05'03
•	-			,			
direct	8987 Apr 05 22:40	0° Υ 30'15	22221121	minimum elong	8988 Mar 10 05:53	22°\£55'56	2°04'25
morning max el	8987 Apr 15 12:01	6° Y 07'15	22°21'21	min. Earth dist.	8988 Mar 09 19:39	23°) €31'06	0.68417 AU
desc. node	8987 Apr 20 23:18	12° Y 18'44		morning rise	8988 Mar 15 13:25	16°) 42′46	
	8987 May 03 21:13	$_{0\circ}$ 8		direct	8988 Mar 19 19:47	15° ₩ 01'18	
morning set	8987 May 19 01:07	23° 8 25'18		morning max el	8988 Mar 28 04:37	19°)(49'34	20°58'46
	8987 May 23 00:49	$\Pi^{\circ}0$			8988 Apr 05 15:48	0 $^{\circ}$ $\mathbf{\Upsilon}$	
max. Earth dist.	8987 May 24 03:38	1° Ⅱ 52'39	1.40821 AU	desc. node	8988 Apr 06 20:12	1° Y 36'17	
					8988 Apr 26 01:27	$B_{\circ 0}$	
superior conj	8987 May 31 22:31	15° Ⅱ 25'05	-1°42'06	morning set	8988 Apr 27 13:37	2° 8 20'57	
minimum elong	8987 Jun 01 04:30	15° Ⅱ 51'52		max. Earth dist.	8988 May 05 07:46	14° 8 43'03	1.42854 AU
viong	8987 Jun 08 21:06	0°9	·-	dist.	2. 22 2.2mj 00 01.10	🔾 15 05	
evening rise	8987 Jun 11 04:38	4°920'14		superior conj	8988 May 12 08:39	26° 8 24'21	2004/05
•					·		
asc. node	8987 Jun 13 11:52	8°938'20		minimum elong	8988 May 12 13:32	26° 8 45'07	2°04'02
	8987 Jun 27 05:27	0 $^{\circ}$ Ω			8988 May 14 11:11	$\Pi^{\circ}0$	
evening max el	8987 Jun 27 06:14	0° Ω 01'57	18°19'22	evening rise	8988 May 24 02:36	16° Ⅱ 57'55	
retrograde	8987 Jul 04 14:02	3° Ω 42'37		asc. node	8988 May 30 08:56	28° Ⅱ 02'55	
evening set	8987 Jul 06 19:45	3° £ 22'49			8988 May 31 12:20	0_{\circ} වෙ	
	8987 Jul 12 15:29	30° ₹ 5		evening max el	8988 Jun 09 17:54	13° © 01'47	18°05'26
inferior conj	8987 Jul 14 04:30	28° 5 44'15	1°05'51	retrograde	8988 Jun 16 09:04	16° 5 25'31	
minimum elong	8987 Jul 14 06:37	28° © 39'49	1°04'53	evening set	8988 Jun 18 22:24	15° © 55'14	
min. Earth dist.	8987 Jul 17 13:40	25°955'56		inferior conj	8988 Jun 25 13:58	10°956'44	2°13'10
desc. node	8987 Jul 17 22:44	25°538'10		minimum elong	8988 Jun 25 16:56	10°549'33	2°12'07
morning rise	8987 Jul 21 14:11	23°911'47		min. Earth dist.	8988 Jun 28 18:27	7°953'02	0.60956 AU
direct	8987 Jul 27 18:36	23 S1147 21°S29'40		morning rise	8988 Jul 02 08:55	4°959'31	0.00750 AU
			27010151	•			
morning max el	8987 Aug 11 03:52	29°©14'57	21 1931	desc. node	8988 Jul 03 19:48	4°907'55	
	8987 Aug 11 21:57	0° N		direct	8988 Jul 08 23:51	2°547'26	25052126
	8987 Sep 01 21:31	0° m)		morning max el	8988 Jul 23 06:41	10°5946'41	27~53'29

	8988 Aug 07 06:50	$0^{\circ}\Omega$			8989 Jul 11 19:11	0°©	
	8988 Aug 24 02:41	0° m/y			8989 Jul 31 13:15	$0^{\circ}\Omega$	
morning set	8988 Aug 25 04:35	2° m/ 12'51		morning set	8989 Aug 09 01:55	16° Ω 09'18	
asc. node	8988 Aug 26 08:27	4° m/38'01		asc. node	8989 Aug 13 05:25	24° Ω 41'58	
max. Earth dist.	8988 Aug 31 02:24	14° m 50'40	1.31773 AU	max. Earth dist.	8989 Aug 14 06:02	26° Ω 52'25	1.32441 AU
					8989 Aug 15 17:04	0° ™	
superior conj	8988 Sep 01 11:57	17° m 55'12	0°58'45				
minimum elong	8988 Sep 01 09:47	17° m 43'17	0°58'18	superior conj	8989 Aug 16 19:52	2°M/24'53	0°35'43
	8988 Sep 06 23:37	0∘ ⊽		minimum elong	8989 Aug 16 18:17	2°Mp16'17	0°35'15
evening rise	8988 Sep 08 06:01	2° ≏ 44'08		evening rise	8989 Aug 23 17:39	17° m) 24'55	
	8988 Sep 22 18:20	0° ™			8989 Aug 29 21:21	0∘ 亚	
desc. node	8988 Sep 29 18:25	9°M45'50	25000120	evening max el	8989 Sep 16 06:26	25° Ω 33'34	23°32'49
evening max el	8988 Oct 04 19:00	15°M14'33	25°09'28	desc. node	8989 Sep 16 15:34	25° Ω 55'21	
retrograde	8988 Oct 18 16:07 8988 Oct 24 09:57	22°M14'22 20°M59'17		ratra arada	8989 Sep 21 23:02	0°ጤ 2°ጤ19'25	
evening set min. Earth dist.	8988 Oct 24 09.37 8988 Oct 29 06:42	18°M18'23	0.57232 AU	retrograde evening set	8989 Sep 29 19:19 8989 Oct 04 03:38	1°M38'12	
inferior conj	8988 Nov 01 03:34	16°M23'34		evening set	8989 Oct 04 03:38 8989 Oct 08 01:28	30°R <u>Ω</u>	
minimum elong	8988 Nov 01 08:44	16°M14'56		min. Earth dist.	8989 Oct 10 16:31	28° ₽ 32'40	0.55643 AU
morning rise	8988 Nov 09 09:50	12°M12'18	3 22 17	inferior conj	8989 Oct 12 14:41	27° ≏ 24'14	
direct	8988 Nov 11 19:52	11°M55'16		minimum elong	8989 Oct 12 13:08	27° ₽ 26'32	
morning max el	8988 Nov 20 22:01	16°M15'48	19°07'36	morning rise	8989 Oct 21 00:38	23° ♀ 30'50	
asc. node	8988 Nov 22 08:15	17° M 43'50		direct	8989 Oct 23 21:23	23° ≏ 10'39	
	8988 Nov 30 17:29	0° ∡ ″		morning max el	8989 Nov 03 11:16	28° ჲ 09'16	20°17'29
morning set	8988 Dec 07 16:33	13° ∡ °14′08			8989 Nov 05 06:42	0° M.	
				asc. node	8989 Nov 09 05:14	4°M57'39	
superior conj	8988 Dec 15 22:46	29° ∡ ³31'24	1°15'09	morning set	8989 Nov 21 22:37	27°M52'18	
minimum elong	8988 Dec 16 01:53	29° х 46′26	1°15'02		8989 Nov 22 23:30	0° ∡ 7	
	8988 Dec 16 04:42	0° ろ				_	
max. Earth dist.	8988 Dec 22 17:25	12° る 10'06	1.38666 AU	superior conj	8989 Nov 29 12:55	13° ∡ ¹27'15 −	1°31'04
evening rise	8988 Dec 26 12:25	18°る51'32		minimum elong	8989 Nov 29 15:05	13° 🗷 38'10	1°31'08
desc. node	8988 Dec 26 17:14	19° る 12'19		max. Earth dist.	8989 Dec 05 00:13	24° メ 12'55 0°る	1.36555 AU
	8989 Jan 02 04:39 8989 Jan 23 00:37	0° ∺		evening rise	8989 Dec 08 02:15 8989 Dec 08 20:12	1°る22'08	
evening max el	8989 Jan 30 21:09	8°) 53'14	24°42'16	desc. node	8989 Dec 08 20:12 8989 Dec 13 14:17	1 02208 9° る 47'01	
retrograde	8989 Feb 11 12:33	15°) 40'53	24 42 10	desc. flode	8989 Dec 15 14.17 8989 Dec 26 07:43	9°≈	
evening set	8989 Feb 17 01:48	13° ¥ 22'03		evening max el	8990 Jan 13 10:25	22° ≈ 41'35	25°53'26
asc. node	8989 Feb 18 07:18	12°) 12'42		retrograde	8990 Jan 25 22:54	29°≈50'26	20 00 20
min. Earth dist.	8989 Feb 21 15:13	8°) 12′29	0.67961 AU	evening set	8990 Feb 01 00:35	27° ≈ 21'29	
inferior conj	8989 Feb 22 15:10	6°) 52′53	1°22'26	asc. node	8990 Feb 05 04:24	22° ≈ 55'27	
minimum elong	8989 Feb 22 13:24	6°) 58'46	1°21'55	min. Earth dist.	8990 Feb 05 07:17	22° ≈ 46'32	0.67121 AU
morning rise	8989 Feb 28 01:12	0°) 54′11		inferior conj	8990 Feb 06 18:44	20° ≈ 55′08	0°31'29
	8989 Mar 01 15:45	30° R ≈		minimum elong	8990 Feb 06 17:56	20° ≈ 57'39	0°31'20
direct	8989 Mar 03 18:43	29° ≈ 34'22		morning rise	8990 Feb 12 11:51	15° ≈ 05′16	
	8989 Mar 05 23:44	0° ∀		direct	8990 Feb 15 17:54	14° ≈ 04'46	
morning max el	8989 Mar 11 04:47	3°) (43′22	19°48'18	morning max el	8990 Feb 22 12:33		18°53'01
greatest brilliancy	8989 Mar 24 02:11	20° ∺ 28'33	-0.6m		8990 Mar 04 00:02	0° \	
desc. node	8989 Mar 24 17:05	21°) (23'13		desc. node	8990 Mar 11 13:59	11°) (31'45	
	8989 Mar 30 11:29	0° Υ 10° Υ 41'45		morning set	8990 Mar 16 18:59	19° ¥ 37'37 0° Ƴ	
morning set	8989 Apr 06 11:36	28° Υ 20'22	1 44420 ATT	may Earth dist	8990 Mar 23 10:37	12° Υ 32'38	1.45351 AU
max. Earth dist.	8989 Apr 17 18:36 8989 Apr 18 19:39	0° 8	1.44420 AU	max. Earth dist.	8990 Mar 31 11:10	12 3238	1.43331 AU
	6969 Apr 16 19.39	00		superior conj	8990 Apr 02 06:36	15° Y ′23′08	-2°01'21
superior conj	8989 Apr 22 18:09	6° 8 19'26	-2°12'21	minimum elong	8990 Apr 01 23:18	14° Υ '54'28	
minimum elong	8989 Apr 22 17:53	6° 8 18'21		mmmum vieng	8990 Apr 11 11:49	0°8	2 0000
evening rise	8989 May 06 05:21	28° 8 42'45		evening rise	8990 Apr 17 09:00	9° 8 28'30	
Č	8989 May 06 23:31	0°Ⅱ		Ü	8990 Apr 30 05:42	$0^{\circ}\Pi$	
asc. node	8989 May 17 06:01	17° Ⅱ 03'35		asc. node	8990 May 04 03:05	5° Ⅱ 32'06	
evening max el	8989 May 24 07:26	26° Ⅱ 21′28	18°10'38	evening max el	8990 May 07 19:49	9° Ⅱ 52'47	18°34'01
retrograde	8989 May 30 16:30	29° Ⅱ 42'55		retrograde	8990 May 14 08:08	13° Ⅲ 25'35	
evening set	8989 Jun 02 13:23	28° ∏ 59'52		evening set	8990 May 17 12:34	12° Ⅱ 28′20	
inferior conj	8989 Jun 08 15:40	23° Ⅱ 42'56	2°55'09	inferior conj	8990 May 23 05:28	6° Ⅱ 54'16	
minimum elong	8989 Jun 08 17:58	23° ∏ 36'36	2°54'29	minimum elong	8990 May 23 06:32	6° Ⅱ 51'01	3°16'11
min. Earth dist.	8989 Jun 11 08:15	20° ∏ 47'15	0.63144 AU	min. Earth dist.	8990 May 25 07:06	4° Ⅱ 25'06	0.65062 AU
morning rise	8989 Jun 14 21:00	17° Ⅱ 31'41		morning rise	8990 May 28 23:41	0° Ⅱ 36'50	
desc. node	8989 Jun 20 16:50	15° ∏ 00'02		3:4	8990 May 29 18:14	30°R 8	
direct	8989 Jun 21 15:02 8989 Jul 05 14:28	14° Ⅱ 57'17 23° Ⅱ 00'26	27010156	direct	8990 Jun 04 14:00 8990 Jun 07 13:51	27° 8 51'43 28° 8 21'16	
morning max el	0707 Jul US 14:28	23 Д 00/26	40 30	desc. node	0770 Juli 0/ 13:31	20 O 21 10	

	8990 Jun 11 01:27	0°Щ		morning rise	8991 May 12 14:03	14° 8 06'05	
morning max el	8990 Jun 18 00:34	5° П 46'35	27°10'06	direct	8991 May 18 19:31	11° 8 22'05	
morning max ci	8990 Jul 06 12:45	0° ©	27 1000	desc. node	8991 May 25 10:49	13° 8 46'46	
morning set	8990 Jul 23 13:49	29° © 35'34		morning max el	8991 May 31 10:58	18° 8 54'56	26°04'36
morning sec	8990 Jul 23 18:51	0°Ω		morning max er	8991 Jun 09 20:06	0°II	20 0130
max. Earth dist.	8990 Jul 28 01:02	8° Ω 28'42	1.33606 AU		8991 Jun 29 13:51	0. 0. 0.	
asc. node	8990 Jul 31 02:21	14°Ω48'06	1.55000110	morning set	8991 Jul 06 12:44	12° © 22'30	
				max. Earth dist.	8991 Jul 10 09:32	19° 5 641'40	1.35248 AU
superior conj	8990 Jul 31 22:45	16° Ω 35'23	0°08'32				
minimum elong	8990 Jul 31 22:19	16° Ω 33'06	0°08'16	superior conj	8991 Jul 15 18:08	0° Ω 20′18	-0°21'55
behind sun begin	8990 Jul 31 17:30	16° Ω 07'40		minimum elong	8991 Jul 15 19:25	0° Ω 26'51	0°21'53
behind sun end	8990 Aug 01 03:09	16° Ω 58'35			8991 Jul 15 14:08	$0^{\circ}\Omega$	
	8990 Aug 07 05:50	0° ™		asc. node	8991 Jul 17 23:19	4° £ 52′49	
evening rise	8990 Aug 08 04:29	1° m 59'49		evening rise	8991 Jul 23 12:30	16° Ω 23'10	
	8990 Aug 23 20:39	0∘ ⊽			8991 Jul 30 10:23	0° m	
evening max el	8990 Aug 28 20:26	5° ≏ 47'25	21°54'22	evening max el	8991 Aug 10 21:02	16° m 29'38	20°28'21
desc. node	8990 Sep 03 12:42	10° ≏ 09'16		desc. node	8991 Aug 21 09:49	21° Mp 58'08	
retrograde	8990 Sep 10 10:45	12° ≏ 03'00		retrograde	8991 Aug 21 22:58	21° m 58'55	
evening set	8990 Sep 13 08:28	11° ≏ 44'07		evening set	8991 Aug 23 23:42	21° m/48'38	
inferior conj	8990 Sep 22 10:36	7° Ω 44'40		inferior conj	8991 Sep 02 03:34	17° m 51'20	
minimum elong	8990 Sep 22 02:08	7° Ω 56'30	4°57'14	minimum elong	8991 Sep 01 18:36	18° Mp 04'21	3°25'33
min. Earth dist.	8990 Sep 22 00:26	7° Ω 58'53	0.54767 AU	min. Earth dist.	8991 Sep 03 09:32	17° Mp 07'52	0.54805 AU
morning rise	8990 Sep 30 21:09	3° Ω 56'27		morning rise	8991 Sep 10 12:59	13° Mp 47'46	
direct	8990 Oct 04 08:48	3° £ 29'44 9° £ 12'31	21040122	direct	8991 Sep 14 17:36 8991 Sep 28 01:52	13° M) 10'04	22022101
morning max el asc. node	8990 Oct 16 11:18	23° £ 03'12	21 46 23	morning max el	8991 Sep 28 01.32 8991 Oct 06 18:11	19° Mp 37'25 0° <u>₽</u>	23 33 01
asc. node	8990 Oct 27 02:11 8990 Oct 31 00:36	0°M		asc. node	8991 Oct 06 18.11 8991 Oct 13 23:08	0 <u>₽</u> 11° ₽ 48'16	
morning set	8990 Nov 06 08:22	12°M38'43		morning set	8991 Oct 13 23:08 8991 Oct 21 19:53	27° £ 28'04	
morning set	8990 NOV 00 08.22	12 1163043		morning set	8991 Oct 21 19:33 8991 Oct 23 00:21	0°M	
superior conj	8990 Nov 13 12:25	27° M 48'34	1°39'17		0991 Oct 25 00.21	0 110	
minimum elong	8990 Nov 13 13:18	27°M53'14	1°39'28	superior conj	8991 Oct 28 18:14	12°M26'43	1°40'40
mmmum viong	8990 Nov 14 13:34	0° √	1 3, 20	minimum elong	8991 Oct 28 17:53	12°M24'50	1°40'49
max. Earth dist.	8990 Nov 17 12:56	6° х ⁷ 06′12	1.34706 AU	max. Earth dist.	8991 Oct 31 09:47	18°ML06'47	1.33246 AU
evening rise	8990 Nov 21 20:20	14° ∡ ³35'22		evening rise	8991 Nov 05 09:07	28°M21'52	
desc. node	8990 Nov 30 11:20	0° る 09'41		C	8991 Nov 06 04:52	0° ∡ ¹	
	8990 Nov 30 09:03	ರ°0		desc. node	8991 Nov 17 08:24	20° х¹ 14′25	
	8990 Dec 21 01:27	0° ≈			8991 Nov 23 13:27	0°ರ	
evening max el	8990 Dec 26 23:53	6° ≈ 23'54	26°49'26	evening max el	8991 Dec 09 12:30	19° る 49'07	27°22'59
retrograde	8991 Jan 09 03:36	13° ≈ 42'49		retrograde	8991 Dec 23 02:02	27° ට 09'46	
evening set	8991 Jan 15 16:45	11° ≈ 08′03		evening set	8991 Dec 30 00:03	24° る 35'32	
min. Earth dist.	8991 Jan 19 17:30	7° ≈ 07'38	0.65907 AU	min. Earth dist.	8992 Jan 02 19:40		0.64346 AU
inferior conj	8991 Jan 21 16:38	4° ≈ 50′20		inferior conj	8992 Jan 05 06:26	18° る 32'28	-1°33'25
minimum elong	8991 Jan 21 17:25	4° ≈ 48'05	0°26'54	minimum elong	8992 Jan 05 09:19	18° る 24'47	1°31'59
asc. node	8991 Jan 23 01:29	3°≈16'13		asc. node	8992 Jan 09 22:33	14° ろ 12'40	
	8991 Jan 26 12:15	30°₹⋜		morning rise	8992 Jan 11 20:17	13°る08'05	
morning rise	8991 Jan 27 19:08	29°る11'47		direct	8992 Jan 14 08:31	12° る 35'59	1.70.5010.0
direct	8991 Jan 30 15:20	28°る27'20 0°≈		morning max el	8992 Jan 20 19:14	15°る57'52 0°≈	17°52'28
morning max el	8991 Feb 03 20:39 8991 Feb 06 02:15	0 ≈ 1°≈53'48	18°14'16	morning set	8992 Jan 30 20:56 8992 Feb 06 20:17	0 ≈ 11°≈39'50	
morning set	8991 Feb 25 05:15	29°≈56'36	16 14 10	desc. node	8992 Feb 13 07:48	22°≈30'37	
morning set	8991 Feb 25 06:05	0° ∺		desc. Hode	8992 Feb 17 21:25	0° ∺	
desc. node	8991 Feb 26 10:54	0 X 1° ¥ 55'59			0772100 17 21.23	υ Λ	
desc. node	0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1 /(555)		superior conj	8992 Feb 20 05:16	3°) 45'41	-0°48'57
superior conj	8991 Mar 12 11:59	24°) 15′01	-1°31'01	minimum elong	8992 Feb 19 23:44	3°) €23'28	0°48'03
minimum elong	8991 Mar 12 02:32	23°) €37'55		max. Earth dist.	8992 Feb 25 02:35	11°) (33′14	1.44998 AU
max. Earth dist.	8991 Mar 14 07:02		1.45547 AU	evening rise	8992 Mar 07 03:31	28°) 43′27	
	8991 Mar 16 04:06	0 ° Υ		-	8992 Mar 07 23:29	0° Υ	
evening rise	8991 Mar 28 13:53	19° Ƴ 21'27		greatest brilliancy	8992 Mar 22 00:32	21° Y 06'35	-0.6m
	8991 Apr 04 09:51	0° ႘		-	8992 Mar 28 08:39	9° 8	
greatest brilliancy	8991 Apr 09 01:19	7° 8 08'44	-0.7m	evening max el	8992 Apr 03 08:22	7° 8 09'28	20°10'45
evening max el	8991 Apr 21 04:41	23° 8 30'17	19°14'35	asc. node	8992 Apr 06 21:17	10° 8 10'26	
asc. node	8991 Apr 21 00:11	23° 8 18'47		retrograde	8992 Apr 11 03:04	11° 8 40'05	
retrograde	8991 Apr 28 04:34	27° 8 26'47		evening set	8992 Apr 15 00:11	10° 8 12'47	
evening set	8991 May 01 16:57	26° 8 14'39		inferior conj	8992 Apr 20 08:02	4° 8 09'18	3°13'26
inferior conj	8991 May 07 03:53	20° 8 24'57	3°21'31	minimum elong	8992 Apr 20 06:49	4° 8 13'27	3°13'10
minimum elong	8991 May 07 03:42	20° 8 25'33	3°21'19	min. Earth dist.	8992 Apr 21 04:00	3° 8 01'29	0.67667 AU
min. Earth dist.	8991 May 08 14:14	18° 8 33'47	0.66586 AU		8992 Apr 23 12:30	30° ₹ Υ	

morning rise	8992 Apr 25 13:12	27° Ƴ 51'54		evening set	8993 Mar 30 08:25	24° Υ 18'29	
morning rise direct	8992 Apr 23 13:12 8992 May 01 06:43	25°Υ18'36		inferior conj	8993 Apr 04 15:33	18° Υ 03'37	2054124
direct	8992 May 10 11:55	0° 8		minimum elong	8993 Apr 04 13:38	18° Υ 10'18	2°53'58
desc. node	8992 May 11 07:46	0° 8 45'19		min. Earth dist.	8993 Apr 04 13:38 8993 Apr 04 22:18	17° Υ 40'08	0.68299 AU
morning max el	8992 May 12 20:29		24°41'56		8993 Apr 09 18:39	11° Υ 40'08	0.08299 AU
morning max er	8992 May 12 20.29 8992 Jun 02 22:09	2 3 1449 0° Ⅱ	24 41 30	morning rise		9° Υ 33'45	
		0° Ⅱ 24° Ⅱ 17'41		direct	8993 Apr 14 22:43	9° γ 33 45 15° Υ 41'26	22912117
morning set	8992 Jun 17 18:04			morning max el	8993 Apr 25 06:07		23°12'16
E d Ed	8992 Jun 20 22:34	0°50	1 27202 ATT	desc. node	8993 Apr 28 04:44	18° Y 51'45	
max. Earth dist.	8992 Jun 21 08:52	0°946'55	1.37282 AU		8993 May 06 23:29	8°0	
					8993 May 26 21:55	0°II	
superior conj	8992 Jun 28 02:52	13°931'12		morning set	8993 May 30 00:21	5° Ⅱ 07'15	
minimum elong	8992 Jun 28 06:16	13°547'45	0°53'48	max. Earth dist.	8993 Jun 03 04:53	12° ⊥ 14'57	1.39530 AU
asc. node	8992 Jul 03 20:18	24° © 51'52				_	
	8992 Jul 06 09:45	0 \circ Ω		superior conj	8993 Jun 10 21:08	25° Ⅱ 59'17	
evening rise	8992 Jul 06 15:19	0° Ω 27'50		minimum elong	8993 Jun 11 02:29	26° Ⅱ 24'03	1°25'13
evening max el	8992 Jul 23 11:06	27° Ω 56′23	19°21'51		8993 Jun 13 00:50	0ಂ ತಾ	
	8992 Jul 25 20:06	O° m y		evening rise	8993 Jun 20 10:00	14° 5 06'10	
retrograde	8992 Aug 01 20:25	2°m/35'11		asc. node	8993 Jun 20 17:18	14°9541'14	
evening set	8992 Aug 03 16:49	2° m 25'07			8993 Jun 29 01:52	0 $^{\circ}$ Ω	
desc. node	8992 Aug 07 06:54	1° m) 14'08		evening max el	8993 Jul 06 12:39	10° Ω 06'45	18°36'19
	8992 Aug 09 14:43	30° R Ω		retrograde	8993 Jul 14 11:18	14° Ω 04'02	
inferior conj	8992 Aug 12 08:04	28° Ω 17'16	-1°33'15	evening set	8993 Jul 16 12:46	13° Ω 48'57	
minimum elong	8992 Aug 12 03:54	28° Ω 24'05	1°31'47	inferior conj	8993 Jul 24 08:47	9° Ω 22'40	0°14'30
min. Earth dist.	8992 Aug 14 22:10	26° Ω 36′09	0.55772 AU	minimum elong	8993 Jul 24 09:20	9° Ω 21'39	0°14'05
morning rise	8992 Aug 20 12:15	23° Ω 40'39		transit middle	8993 Jul 24 09:20	9° Ω 21'39	0°14'05
direct	8992 Aug 25 12:15	22° Ω 43'48		transit begin	8993 Jul 24 07:34	9° Ω 25'00	
morning max el	8992 Sep 08 14:10	29° Ω 50′03	25°17'09	transit end	8993 Jul 24 11:05	9° Ω 18'17	
	8992 Sep 08 18:20	0° m/		desc. node	8993 Jul 25 04:01	8° Ω 45'49	
	8992 Sep 29 07:04	0° ح		min. Earth dist.	8993 Jul 27 15:39	6° Ω 53'21	0.57496 AU
asc. node	8992 Sep 29 20:05	1° ≏ 02'59		morning rise	8993 Aug 01 02:21	4° Ω 08'59	
morning set	8992 Oct 05 07:29	12° ♀ 15'32		direct	8993 Aug 06 21:49	2° Ω 44'19	
Ü				morning max el	8993 Aug 21 06:15	10° Ω 18'40	26°43'37
superior conj	8992 Oct 12 04:00	27° ≙ 14'27	1°35'54		8993 Sep 05 08:59	0° m	
minimum elong	8992 Oct 12 02:38	27° ♀ 07'00	1°35'55	asc. node	8993 Sep 16 17:01	20° m 38'49	
g	8992 Oct 13 10:09	0°M	1 30 00	morning set	8993 Sep 19 17:29	26° m 55'23	
max. Earth dist.	8992 Oct 13 13:55	0°M20'35	1.32233 AU	morning sec	8993 Sep 21 03:57	0° ⊡	
evening rise	8992 Oct 19 07:15	12°MJ33'18	1.52255 110		оэээ вер 21 оз.эт	٠ –	
evening rise	8992 Oct 28 08:38	0° ∡ 7		superior conj	8993 Sep 26 15:35	12° ≏ 04'24	1°25'32
desc. node	8992 Nov 03 05:28	9° ×7 53'45		minimum elong	8993 Sep 26 13:34	11° ⊆ 53'13	
desc. flode	8992 Nov 18 04:51	0° る		max. Earth dist.	8993 Sep 26 22:40	11 — 33 13	1.31687 AU
evening max el	8992 Nov 20 22:31	2°る45'32	27027148	evening rise	8993 Oct 03 11:57	27° £ 01'09	1.51087 AC
•		2 343 32 10°る02'24	21 2140	evening rise	8993 Oct 03 11:37 8993 Oct 04 22:08	0°M	
retrograde evening set	8992 Dec 04 17:44 8992 Dec 11 19:36	7°る37'40		desc. node	8993 Oct 04 22:08 8993 Oct 21 02:34	28°M56'41	
min. Earth dist.	8992 Dec 11 19:36 8992 Dec 15 12:10	4°る38'36	0.62490 AU	desc. node	8993 Oct 21 02.34 8993 Oct 21 19:42	28 1163041 0° x 7	
inferior conj		1° る 54'59		avanina may al		0 x . 15° ∡ 00'25	26°59'26
	8992 Dec 18 09:18	1°る3439 1°る42'25		evening max el	8993 Nov 03 03:31		20-39-20
minimum elong	8992 Dec 18 14:36	_	2-41-38	retrograde	8993 Nov 17 01:24	22° 🖈 10'30	
	8992 Dec 20 11:22	30°R⊀		evening set	8993 Nov 23 23:32	20° ₹ 05'52	0.60427.411
morning rise	8992 Dec 25 11:49	26° 🖈 47'49		min. Earth dist.	8993 Nov 27 18:07	17° 🗷 25'56	0.60437 AU
asc. node	8992 Dec 26 19:37	26° ₹28′28		inferior conj	8993 Nov 30 21:50	14° ₹ 48′26	
direct	8992 Dec 27 18:28	26° ₹ 24'18	150 1011 1	minimum elong	8993 Dec 01 05:03	14° ₹ 33'23	3°52'43
morning max el	8993 Jan 03 12:26	29° ∡ 751′04	17°48'14	morning rise	8993 Dec 08 13:02	10° ₹ 01'20	
	8993 Jan 03 16:02	0°궁		direct	8993 Dec 10 17:20	9° ∡ 142'51	
morning set	8993 Jan 19 10:39	24°る30'00		asc. node	8993 Dec 13 16:40	10° ∡ 18'49	
	8993 Jan 22 13:20	0° ≈		morning max el	8993 Dec 18 02:24	13° ∡ 23′23	18°02'41
desc. node	8993 Jan 30 04:45	13° ≈ 11'59			8993 Dec 29 07:48	0°ಕ	
				morning set	8994 Jan 02 17:53	8° る 07'10	
superior conj	8993 Jan 30 22:16	14° ≈ 25′50	-0°05'26				
minimum elong	8993 Jan 30 21:46	14° ≈ 23'41	0°05'10	superior conj	8994 Jan 12 16:16	26° る 16'39	0°32'36
behind sun begin	8993 Jan 30 13:13	13° ≈ 47'41		minimum elong	8994 Jan 12 18:45	26° る 27'39	0°32'27
behind sun end	8993 Jan 31 06:19	14° ≈ 59'36			8994 Jan 14 19:04	0° ≈	
max. Earth dist.	8993 Feb 06 19:02	25° ≈ 44'05	1.43776 AU	desc. node	8994 Jan 17 01:41	3° ≈ 55'56	
	8993 Feb 09 10:58	0° ∀		max. Earth dist.	8994 Jan 20 07:02	9° ≈ 22'42	1.42020 AU
evening rise	8993 Feb 14 16:21	8°) 11'42		evening rise	8994 Jan 25 18:34	18° ≈ 19'48	
	8993 Mar 01 05:23	$0^{\circ}\mathbf{\Upsilon}$			8994 Feb 02 06:17	0°) €	
evening max el	8993 Mar 17 06:31	20° Ƴ 49'56	21°19'42		8994 Feb 23 21:03	$0^{\circ}\mathbf{\Upsilon}$	
asc. node	8993 Mar 24 18:23	25° Y ′52'30		evening max el	8994 Feb 27 23:59	4° Y 32'32	22°37'12
retrograde	8993 Mar 26 01:27	26° Y 00′57		retrograde	8994 Mar 09 21:58	10° Y 24'59	

asc. node	8994 Mar 11 15:32	10° Y 10′03		retrograde	8995 Feb 21 15:16	24°) 47'29	
		8° Υ 27'33		C		24)(4729 22°) (35'55	
evening set	8994 Mar 14 16:02		2025142	evening set	8995 Feb 26 21:26		
inferior conj	8994 Mar 20 00:23			asc. node	8995 Feb 26 12:41	22°) 53'54	0.60274.444
minimum elong	8994 Mar 19 22:09	2°Υ12'01		min. Earth dist.	8995 Mar 03 15:18	17°) €06'37	0.68274 AU
min. Earth dist.	8994 Mar 19 18:50	2° Y 23'32	0.68494 AU	inferior conj	8995 Mar 04 08:37	16° ∺ 07'50	1°48'02
	8994 Mar 21 12:40	30° ₹		minimum elong	8995 Mar 04 06:32		1°47'24
morning rise	8994 Mar 25 04:08	25° ¥ 55′09		morning rise	8995 Mar 09 15:39	10°) €05'02	
direct	8994 Mar 29 18:24	24°) €00'34		direct	8995 Mar 13 16:31	8°) 32′47	
morning max el	8994 Apr 07 19:02	29° 升 16′12	21°44'59	morning max el	8995 Mar 21 14:35	13°) €02'26	20°27'04
	8994 Apr 08 12:10	0° Y		desc. node	8995 Apr 01 22:34	27° ₩ 17'54	
desc. node	8994 Apr 15 01:40	7° Ƴ 47'12			8995 Apr 03 19:57	0 ° Υ	
	8994 Apr 30 16:25	0° ႘		morning set	8995 Apr 19 07:23	23° Y 14'25	
morning set	8994 May 10 03:32	14° 8 41'40		-	8995 Apr 23 15:16	0°8	
max. Earth dist.	8994 May 16 04:53	24° 8 32'58	1.41726 AU	max. Earth dist.	8995 Apr 28 12:20	7° 8 45'49	1.43590 AU
	8994 May 19 10:52	0° I I			1		
	.,			superior conj	8995 May 04 20:06	18° 8 05'46	-2°09'39
superior conj	8994 May 23 20:21	7° Ⅱ 34'17	-1°52'42	minimum elong	8995 May 04 23:19	18° 8 19'08	
minimum elong	8994 May 24 02:17	8° П 00'15		minimum ciong	8995 May 11 21:05	0°II	2 05 11
evening rise	8994 Jun 03 16:49	27° П 09'04	1 32 24	evening rise	8995 May 17 07:09	9° ∏ 24'58	
evening rise	8994 Jun 05 06:03	0°9		asc. node	•	23° I I31'22	
1				asc. node	8995 May 25 11:24		
asc. node	8994 Jun 07 14:20	4°5516'29			8995 May 29 14:34	0°©	
evening max el	8994 Jun 19 21:50	22° © 52'01	18°11'08	evening max el	8995 Jun 03 10:42	6° © 01'01	18°05'23
retrograde	8994 Jun 26 20:59	26° © 23'11		retrograde	8995 Jun 09 21:54	9° © 21'56	
evening set	8994 Jun 29 06:04	25° © 59'10		evening set	8995 Jun 12 14:34	8° © 46'17	
inferior conj	8994 Jul 06 07:05	21° © 12'08	1°37'42	inferior conj	8995 Jun 18 23:56	3° © 39'30	2°33'49
minimum elong	8994 Jul 06 09:49	21° 5 06'02	1°36'35	minimum elong	8995 Jun 19 02:45	3° 5 32'18	2°32'53
min. Earth dist.	8994 Jul 09 15:34	18° © 14'22	0.59655 AU	min. Earth dist.	8995 Jun 21 23:50	0° ഇ 36'56	0.61909 AU
desc. node	8994 Jul 12 01:07	16° © 22'23			8995 Jun 22 15:16	30°Ŗ Ⅱ	
morning rise	8994 Jul 13 10:34	15° 5 28'07		morning rise	8995 Jun 25 12:53	27° Ⅲ 35′22	
direct	8994 Jul 19 20:36	13° © 32'33		desc. node	8995 Jun 28 22:11	25° ∏ 47′26	
morning max el	8994 Aug 03 05:00	21° © 24'26	27°38'46	direct	8995 Jul 02 06:02	25° Ⅱ 12'53	
	8994 Aug 10 16:43	0° Ω			8995 Jul 12 20:59	0° ©	
	8994 Aug 29 08:07	0° m)		morning max el	8995 Jul 16 10:08	3° © 14'07	27°56'10
asc. node	8994 Sep 03 13:58	10° m) 29'35		morning max cr	8995 Aug 05 05:40	0°Ω	27 30 10
morning set	8994 Sep 04 00:11	10 mp 29 55		morning set	8995 Aug 19 01:36	25° Ω 32'08	
=	-	-	1 21/(12 ATT	•	-		
max. Earth dist.	8994 Sep 10 08:36	25° Mp 07'43	1.31613 AU	asc. node	8995 Aug 21 10:54	0° Mp 29'33	
	00046 11 02 12	2 (0 m 50152	1000157	E d E d	8995 Aug 21 05:17	0° m/y	1 22006 111
superior conj	8994 Sep 11 03:13	26° m 50'53	1°09'57	max. Earth dist.	8995 Aug 24 15:50	7° m 21'11	1.32006 AU
minimum elong	8994 Sep 11 00:58	26° Tp 38'26	1°09'34				
	8994 Sep 12 13:17	0∘ ত		superior conj	8995 Aug 26 13:00	11° m)27'42	0°49'32
evening rise	8994 Sep 17 20:57	11° ≏ 38'57		minimum elong	8995 Aug 26 11:01	11°Mp 16'49	0°49'03
	8994 Sep 27 02:48	0°M₊		evening rise	8995 Sep 02 08:10	26° Mp 19'55	
desc. node	8994 Oct 07 23:42	17° ™ 08'47			8995 Sep 04 01:38	0∘ ⊽	
evening max el	8994 Oct 16 01:05	26° ™ 25′07	25°57'38		8995 Sep 21 10:15	0° M	
	8994 Oct 20 09:23	0° ∡ 7		desc. node	8995 Sep 24 20:50	4°M10'04	
retrograde	8994 Oct 29 23:06	3° ∡ ¹28′03		evening max el	8995 Sep 27 14:51	7° ጤ 01'34	24°29'34
evening set	8994 Nov 05 07:05	1° ∡ 753′13		retrograde	8995 Oct 11 09:15	13°M56'19	
•	8994 Nov 08 13:09	30°RM₀		evening set	8995 Oct 16 14:14	12°M56'10	
min. Earth dist.	8994 Nov 09 13:52	29° ™ 17'58	0.58359 AU	min. Earth dist.	8995 Oct 22 01:47	10°M07'07	0.56496 AU
inferior conj	8994 Nov 12 16:33	27°M03'07		inferior conj	8995 Oct 24 14:59	8°M30'42	-5°34'49
minimum elong	8994 Nov 12 23:36	26°M50'21		minimum elong	8995 Oct 24 17:45	8°M26'19	
morning rise	8994 Nov 20 18:26	22°M38'29	1 33 33	morning rise	8995 Nov 01 23:24	4°M28'09	3 3 1 3 0
direct	8994 Nov 23 00:59	22°M21'41		direct	8995 Nov 04 13:37	4°M10'01	
asc. node		25°M39'22			8995 Nov 14 05:58	8°M45'11	19°34'34
	8994 Nov 30 13:43		10027122	morning max el			19 34 34
morning max el	8994 Dec 01 09:26	26°M24'45	18°37'32	asc. node	8995 Nov 17 10:43	12°M16'12	
	8994 Dec 04 13:25	0° ⊼			8995 Nov 28 05:36	0° ∡ 7	
morning set	8994 Dec 17 12:51	22° ∡ 16′20		morning set	8995 Dec 01 15:44	6° ∡ ¹46'35	
	8994 Dec 21 12:26	0°ප					
				superior conj	8995 Dec 09 14:22	22° х 43′06	1°22'54
superior conj	8994 Dec 26 07:18	9° ප 07'00	1°02'09	minimum elong	8995 Dec 09 17:09	22° ∡ 56'47	1°22'52
minimum elong	8994 Dec 26 10:37	9° る 22'29	1°01'58		8995 Dec 13 08:46	5°0	
max. Earth dist.	8995 Jan 02 14:53	22° る 21'22	1.39933 AU	max. Earth dist.	8995 Dec 15 20:57	4° る 41'33	1.37750 AU
desc. node	8995 Jan 03 22:39	24° る 39'10		evening rise	8995 Dec 19 14:14	11° る 24'58	
evening rise	8995 Jan 06 17:39	29° る 23'59		desc. node	8995 Dec 21 19:39	15° る 18'10	
Č							
	8995 Jan 07 02:15	0°≈			8995 Dec 30 18:50	0° ≈	
	8995 Jan 07 02:15 8995 Jan 26 17:22						
evening max el		0° ≈ 0° 米 18° 米 18'09	23°57'28	evening max el	8995 Dec 30 18:50 8996 Jan 22 02:23 8996 Jan 24 03:40	0° ≈ 0° 米 2° 米 06'20	25°13'54

. 1	0006 F 1 05 04 24	001/04/02		. 1	0007 1 10 12 22	22007122	
retrograde	8996 Feb 05 04:24	9°) (40114		retrograde	8997 Jan 18 12:32	23°≈07'22	
evening set	8996 Feb 10 23:08	6°) (40'14 4°) (12'33		evening set min. Earth dist.	8997 Jan 24 19:21	20°≈35'00	0.66649.411
asc. node	8996 Feb 13 09:47		0.67653 AU		8997 Jan 28 23:19	16°≈14'58	0.66648 AU
min. Earth dist.	8996 Feb 15 09:31	1°) (45'42		asc. node	8997 Jan 30 06:53	14°≈38'47	0007125
inferior conj	8996 Feb 16 14:26	0°) 11'46 0°) 16'24	1°01'51	inferior conj	8997 Jan 30 15:50	14°≈11'24	0°07'25
minimum elong	8996 Feb 16 13:00		1°01'26	minimum elong	8997 Jan 30 15:37	14°≈12'02	0°07'32
	8996 Feb 16 18:03	30°R≈ 24°≈16'51		transit middle	8997 Jan 30 15:37 8997 Jan 30 13:05	14°≈12'02 14°≈19'49	0°07'32
morning rise direct	8996 Feb 22 03:12 8996 Feb 25 15:41	24 ≈16 31 23°≈05'38		transit begin transit end	8997 Jan 30 13:03 8997 Jan 30 18:10	14 ≈1949 14°≈04'15	
	8996 Mar 03 18:11		19°22'54	morning rise	8997 Feb 05 12:42	8°≈26'14	
morning max el	8996 Mar 06 11:34	27°≈01'11 0°) €	19 22 34	direct	8997 Feb 03 12:42 8997 Feb 08 14:15	8 ≈20 14 7°≈33'12	
araataat hrillianav	8996 Mar 16 14:31	13°) 56'39	-0.7m		8997 Feb 08 14.13 8997 Feb 15 04:50	/ ≈33 12 11°≈07'12	18°34'30
greatest brilliancy desc. node	8996 Mar 18 19:28	13 X 30 39	-0.7111	morning max el	8997 Feb 13 04.30 8997 Feb 28 21:38	0°) €	16 34 30
desc. Hode	8996 Mar 27 03:56	17 χ 14 49		desc. node	8997 Mar 05 16:21	7°) (30′22	
morning set	8996 Mar 28 06:25	1° Υ 42'05		morning set	8997 Mar 03 10.21 8997 Mar 07 23:58	11° H 09'45	
max. Earth dist.	8996 Apr 10 02:24	21° Υ 42'03	1.44900 AU	morning set	8997 Mar 19 23:40	11 γ (0943	
max. Earm dist.	8990 Apr 10 02.24	21 14140	1.44900 AU		6997 Wai 19 23.40	0 1	
superior conj	8996 Apr 13 19:36	27° Ƴ 35'27	-2°10'12	superior conj	8997 Mar 24 02:43	6° Ƴ 27'32	-1°50'33
minimum elong	8996 Apr 13 16:12	27° Υ 21'56		minimum elong	8997 Mar 23 17:37	5° Υ 51'54	
minimum ciong	8996 Apr 15 07:47	0°8	2 10 14	max. Earth dist.	8997 Mar 23 20:17	6°Υ02'23	1.45523 AU
evening rise	8996 Apr 28 00:27	20° 8 45'14		max. Earth dist.	8997 Apr 08 01:17	0°8	1.43323710
evening rise	8996 May 03 13:52	0°Ⅱ		evening rise	8997 Apr 08 17:58	1° 8 06'19	
asc. node	8996 May 11 08:28	12° Ⅱ 19'15		greatest brilliancy	8997 Apr 17 06:42	14° 8 39'22	-0.8m
evening max el	8996 May 17 00:20	12 Ⅱ 1513	18°18'20	greatest orimaney	8997 Apr 27 19:23	0°Ⅱ	0.0111
retrograde	8996 May 23 09:26	22° I I50'49	10 10 20	asc. node	8997 Apr 28 05:33	0° П 31'00	
evening set	8996 May 26 09:28	22° I I01'52		evening max el	8997 Apr 30 11:02	2° П 59'32	18°49'15
inferior conj	8996 Jun 01 07:16	16° ∏ 37'11	3°06'28	retrograde	8997 May 07 03:31	6° ∏ 41'23	10 47 13
minimum elong	8996 Jun 01 09:05	16° Д 37'11	3°05'57	evening set	8997 May 10 11:09	5° П 38'03	
min. Earth dist.	8996 Jun 03 17:34	13° Д 51'03	0.63998 AU	inferior conj	8997 May 16 01:07	29° 8 57'12	3°20'24
morning rise	8996 Jun 07 07:30	10° Ⅱ 22'19	0.03770710	minimum elong	8997 May 16 01:39	29° 8 55'33	3°20'09
direct	8996 Jun 14 00:29	7° I I42'08		minimum clong	8997 May 16 00:13	30°R8	3 20 0)
desc. node	8996 Jun 14 19:13	7° Ⅱ 44'08		min. Earth dist.	8997 May 17 20:15	27° 8 42'52	0.65757 AU
morning max el	8996 Jun 27 19:29	15° ∏ 43'32	27°36'19	morning rise	8997 May 21 15:30	23° 8 38'23	0.00,0,110
morning man vi	8996 Jul 09 12:26	0.2 10 2 1997	2, 301,	direct	8997 May 28 02:29	20° 8 52'13	
	8996 Jul 27 23:11	$0^{\circ}\Omega$		desc. node	8997 Jun 01 16:13	22° 8 01'16	
morning set	8996 Aug 01 19:18	9° Ω 16'35		morning max el	8997 Jun 10 06:03	28° 8 40'34	26°44'59
max. Earth dist.	8996 Aug 06 16:22	19° Ω 13'18	1.32878 AU	morning max cr	8997 Jun 11 12:35	0°II	20 113)
asc. node	8996 Aug 07 07:50	20°Ω34'31	1.32070110		8997 Jul 03 07:49	0°es	
ase. Houe	0))0 / lug 0/ 0/.50	20 063431		morning set	8997 Jul 16 02:13	22° © 27'40	
superior conj	8996 Aug 09 19:02	25° Ω 49'26	0°24'39	morning set	8997 Jul 19 23:14	0°Ω	
minimum elong	8996 Aug 09 17:52	25° Ω 43'10		max. Earth dist.	8997 Jul 20 06:49	_	1.34238 AU
minimum ciong	8996 Aug 11 17:31	0° m	0 24 15	max. Earth dist.	0))/ Jul 20 00.4)	0 0037 47	1.54250710
evening rise	8996 Aug 16 19:41	10° mp 58'31		superior conj	8997 Jul 24 19:04	9° Ω 49'51	-0°04'04
evening rise	8996 Aug 26 12:21	0° ⊡		minimum elong	8997 Jul 24 19:18	9° Ω 51'04	
evening max el	8996 Sep 08 01:59	17° ≏ 12'46	22°50'04	behind sun begin	8997 Jul 24 13:42	9° Ω 22'01	0 0113
desc. node	8996 Sep 10 17:58	19° £ 34'08	22 3001	behind sun end	8997 Jul 25 00:53	10° Ω 20'09	
retrograde	8996 Sep 21 07:21	23° ≏ 48'47		asc. node	8997 Jul 25 04:47	10° Ω 40'27	
evening set	8996 Sep 25 00:09	23° ⊆ 18'46		evening rise	8997 Aug 01 05:34	25° Ω 29'03	
min. Earth dist.	8996 Oct 02 10:10	19° ≏ 58'00	0.55166 AU	8	8997 Aug 03 09:56	0° m)	
inferior conj	8996 Oct 03 18:31	19° Ω 11'40		evening max el	8997 Aug 20 19:48	27° m) 35'56	21°15'49
minimum elong	8996 Oct 03 13:36	19° ⊆ 18'43			8997 Aug 23 13:29	0° ⊽	
morning rise	8996 Oct 12 05:01	15° ≏ 22'57	/	desc. node	8997 Aug 28 15:05	2° ≏ 49'57	
direct	8996 Oct 15 07:35	15° Ω 00'35		retrograde	8997 Sep 01 20:23	3° ჲ 33'37	
morning max el	8996 Oct 26 13:33	20° Ω 17'11	20°53'56	evening set	8997 Sep 04 06:38	3° £ 19'57	
asc. node	8996 Nov 03 07:41	29° £ 53'30	20 0000	evening see	8997 Sep 12 09:15	30°R, Mp	
	8996 Nov 03 09:23	0°M		inferior conj	8997 Sep 13 11:32	29° m 23'12	-4°25'50
morning set	8996 Nov 14 23:37	21°M28'56		minimum elong	8997 Sep 13 01:55	29° m) 36'43	4°23'21
	8996 Nov 19 01:37	0° √		min. Earth dist.	8997 Sep 13 18:46	29° m 13'02	0.54657 AU
	22222101 12 01.27	÷ ••		morning rise	8997 Sep 21 21:48	25° m/30'41	, 110
superior conj	8996 Nov 22 08:56	6° ∡ 751'15	1°35'26	direct	8997 Sep 25 16:08	25° m 00'08	
minimum elong	8996 Nov 22 10:34	6° 🗷 59'38	1°35'35	3	8997 Oct 07 04:51	23 m/00 00 0° Ω	
max. Earth dist.	8996 Nov 27 05:35	16° ∡ 36′59	1.35721 AU	morning max el	8997 Oct 08 09:02	1° ≏ 02'59	22°31'50
evening rise	8996 Dec 01 05:25	24° 🖈 14'43	1.55,21110	asc. node	8997 Oct 21 04:37	18° ⊆ 17'29	5155
	8996 Dec 04 09:04	0°る			8997 Oct 27 09:25	0°M	
desc. node	8996 Dec 07 16:39	5° 云 48'08		morning set	8997 Oct 30 10:21	6°M17'28	
	8996 Dec 23 09:27	0°≈			10.21	- He-1/20	
evening max el	8997 Jan 05 16:46	15°≈52'15	26°19'28	superior conj	8997 Nov 06 11:30	21°M21'17	1°40'40
Cronning max of	577, 3411 05 10.70	15 70.32 13	20 1/20	superior conj	5777 1107 00 11.50	~: IIV~1 1/	1 10 10

minimum elong	8997 Nov 06 11:50	21° M 23'07	1°40'51	superior conj	8998 Oct 21 19:16	6°ML04'06	1°39'21
max. Earth dist.	8997 Nov 09 21:25	28°M30'57	1.34032 AU	minimum elong	8998 Oct 21 19:10	5°M59'41	1°39'27
max. Dartii dist.	8997 Nov 10 14:43	0°×7	1.5 1052 110	max. Earth dist.	8998 Oct 23 21:40	10°M37'14	1.32764 AU
evening rise	8997 Nov 14 11:25	7° ×7 43'53		evening rise	8998 Oct 29 04:35	21°M42'08	1.52701110
desc. node	8997 Nov 24 13:42	26° х 04′06		* · · · · · · · · · · · · · · · · · · ·	8998 Nov 02 09:49	0° ⊼ ¹	
	8997 Nov 26 22:49	0°ჳ		desc. node	8998 Nov 11 10:47	15° ₹ '59'00	
evening max el	8997 Dec 19 06:01	29° る 28'48	27°06'48		8998 Nov 20 19:45	0° ට	
C	8997 Dec 19 19:14	0° ≈		evening max el	8998 Dec 01 18:05	12° る 44'08	27°28'53
retrograde	8998 Jan 01 14:54	6° ≈ 49'58		retrograde	8998 Dec 15 10:32	20° る 03'04	
evening set	8998 Jan 08 08:05	4° ≈ 14'34		evening set	8998 Dec 22 10:47	17° る 32'05	
min. Earth dist.	8998 Jan 12 06:30	0° ≈ 28'17	0.65283 AU	min. Earth dist.	8998 Dec 26 04:55	14° る 17'09	0.63593 AU
	8998 Jan 12 16:44	30°₹ ⋜		inferior conj	8998 Dec 28 20:11	11° る 36'58	-2°03'03
inferior conj	8998 Jan 14 10:37	28° る 01'59	-0°54'40	minimum elong	8998 Dec 29 00:05	11° る 27'03	2°01'13
minimum elong	8998 Jan 14 12:14	27° る 57'27	0°53'45	asc. node	8999 Jan 04 01:02	6° る 34'26	
asc. node	8998 Jan 17 03:57	25° පි 08'01		morning rise	8999 Jan 04 15:17	6° ප 19'09	
morning rise	8998 Jan 20 17:44	22° 云 28'58		direct	8999 Jan 07 00:50	5° る 51'05	
direct	8998 Jan 23 10:11	21° る 50'21		morning max el	8999 Jan 13 13:41	9° る 14'02	17°48'22
morning max el	8998 Jan 29 20:16	25° る 13'59	18°02'47		8999 Jan 27 12:10	0° ≈	
	8998 Feb 02 20:57	0° ≈		morning set	8999 Jan 30 00:42	4°≈20'23	
morning set	8998 Feb 16 22:51	22°≈05'43		desc. node	8999 Feb 07 10:10	18° ≈ 37'12	
desc. node	8998 Feb 20 13:15	27°≈59'17			0000 F.1. 11. 12.20	250 20121	0020107
	8998 Feb 21 18:54	0° ℋ		superior conj	8999 Feb 11 13:38	25°≈28'31	
	0000 M 02 11 02	1501/20121	1012150	minimum elong	8999 Feb 11 10:23	25°≈15'10 0°) €	0°29'29
superior conj	8998 Mar 03 11:03 8998 Mar 03 02:47	15° 升 30′21 14° 升 57′40		max. Earth dist.	8999 Feb 14 08:26 8999 Feb 17 10:35	0° π 4° 升 57'10	1.44560 AU
minimum elong max. Earth dist.	8998 Mar 06 15:48	20°\(\frac{14}{32}\)'40		evening rise	8999 Feb 17 10.33 8999 Feb 27 02:16	4 ★ 37 10 20° ★ 01'57	1.44300 AU
max. Earm dist.	8998 Mar 12 17:11	20 γ (32 40)	1.43403 AU	evening rise	8999 Mar 05 15:37	20 γ 0137	
evening rise	8998 Mar 19 14:50	10° Y 41'27			8999 Mar 27 12:06	0°8	
evening rise	8998 Apr 01 05:57	0°8		evening max el	8999 Mar 27 19:18	0° 8 18'28	20°38'48
greatest brilliancy	8998 Apr 02 00:25	1° 8 08'46	-0.7m	asc. node	8999 Apr 01 23:45	4° 8 20'11	20 30 10
evening max el	8998 Apr 13 17:50	16° 8 37'53	19°36'48	retrograde	8999 Apr 04 23:35	5° 8 05'11	
asc. node	8998 Apr 15 02:38	17° 8 55'45		evening set	8999 Apr 09 00:50	3° 8 31'21	
retrograde	8998 Apr 21 00:59	20° 8 47'43		<i>3</i>	8999 Apr 12 09:13	30° Ŗ ♈	
evening set	8998 Apr 24 16:57	19° 8 29'18		inferior conj	8999 Apr 14 08:08	27° Y 22'54	3°06'35
inferior conj	8998 Apr 30 02:16	13° 8 33'47	3°19'31	minimum elong	8999 Apr 14 06:34	27° Ƴ 28'17	3°06'15
minimum elong	8998 Apr 30 01:37	13° 8 35'58	3°19'19	min. Earth dist.	8999 Apr 14 22:21	26° Y 34'03	0.67996 AU
min. Earth dist.	8998 May 01 06:28	12° 8 00'22	0.67103 AU	morning rise	8999 Apr 19 12:05	21° Y 07'00	
morning rise	8998 May 05 09:56	7° 8 15'14		direct	8999 Apr 25 00:07	18° Ƴ 40′25	
direct	8998 May 11 10:43	4° 8 34'25		morning max el	8999 May 06 01:00	25° Y 16′15	24°04'03
desc. node	8998 May 19 13:12	8° 8 09'20		desc. node	8999 May 06 10:10	25° Y 39'38	
morning max el	8998 May 23 15:50	11° 8 53'35	25°30'50		8999 May 10 07:54	9° 8	
	8998 Jun 07 03:51	$\Pi^{\circ}0$			8999 May 31 15:45	Π °0	
	8998 Jun 26 00:30	0ංම		morning set	8999 Jun 10 14:23	16° Ⅲ 22'22	
morning set	8998 Jun 28 18:14	4°953'44		max. Earth dist.	8999 Jun 14 07:45	22° ∏ 54'03	1.38232 AU
max. Earth dist.	8998 Jul 02 10:30	11°942'01	1.36066 AU		8999 Jun 18 05:30	0° ©	
	0000 1 1 00 10 20	220521100	0025120		0000 I 21 12 20	60615100	1007140
superior conj	8998 Jul 08 10:20	23°521'08		superior conj	8999 Jun 21 13:28	6°915'20	
minimum elong	8998 Jul 08 12:29 8998 Jul 11 17:19	23° © 31'54 0° Ω	0-35/19	minimum elong asc. node	8999 Jun 21 17:46 8999 Jun 28 22:44	6°535'49 20°538'27	1-0/21
asc. node	8998 Jul 12 01:44	0° Ω 42'53		evening rise	8999 Jun 30 11:27	20 3 3827 23° 9 39'21	
evening rise	8998 Jul 16 11:40	9° Ω 44'43		evening rise	8999 Jul 03 17:38	0°Ω	
evening rise	8998 Jul 27 09:28	0° m)		evening max el	8999 Jul 16 21:38	20° Ω 22'19	18°59'54
evening max el	8998 Aug 03 02:17	8° Mp 36'36	19°57'40	retrograde	8999 Jul 25 14:46	24°Ω41'40	10 3731
retrograde	8998 Aug 13 10:34	13° m) 43'27	15 67 10	evening set	8999 Jul 27 12:53	24° Ω 29'54	
evening set	8998 Aug 15 07:53	13° mp 34'00		desc. node	8999 Aug 02 09:20	21° Ω 53'23	
desc. node	8998 Aug 15 12:14	13° m/32'08		inferior conj	8999 Aug 04 20:13	20° Ω 14'27	-0°45'12
inferior conj	8998 Aug 24 07:49	9° m 34'04	-2°40'33	minimum elong	8999 Aug 04 18:17		0°44'37
minimum elong	8998 Aug 24 00:33	9° m 45'03		min. Earth dist.	8999 Aug 07 19:20	18° Ω 11′20	0.56435 AU
min. Earth dist.	8998 Aug 26 05:14	8° m/25'30		morning rise	8999 Aug 12 20:33	15° Ω 22'12	
morning rise	8998 Sep 01 15:38	5° m 18'00		direct	8999 Aug 18 05:14	14° Ω 14′29	
direct	8998 Sep 06 04:35	4° m 33'01		morning max el	8999 Sep 01 10:40	21° Ω 33'04	25°57'07
morning max el	8998 Sep 19 21:32	11°Mp18'12	24°18'17		8999 Sep 08 20:13	0° m p	
	8998 Oct 03 23:56	0∘ ⊽		asc. node	8999 Sep 24 22:31	26° Mp 40'18	
asc. node	8998 Oct 08 01:34	7° ≏ 16'04			8999 Sep 26 14:08	0∘ ত	
morning set	8998 Oct 14 22:07	21° ≏ 06'19		morning set	8999 Sep 29 09:15	5° £ 50'43	
	8998 Oct 19 00:40	0° M .			0000 0 0000	200	1005:00
				superior conj	8999 Oct 06 06:01	20° £ 52'52	1°32'09

minimum elong	8999 Oct 06 04:20	20° ≏ 43'34	1°32'05	morning set	9000 Sep 13 18:06	20° m 26'06	
max. Earth dist.	8999 Oct 07 04:21	22° ჲ 56'14	1.31948 AU	Ü	9000 Sep 18 04:09	0∘ <u>⊽</u>	
	8999 Oct 10 09:53	0° M.					
evening rise	8999 Oct 13 05:50	6°M00'58		superior conj	9000 Sep 20 17:51	5° ≙ 41'51	1°19'32
	8999 Oct 25 23:26	0° ∡		minimum elong	9000 Sep 20 15:41	5° Ω 29'48	1°19'15
desc. node	8999 Oct 29 07:53	5°×724'06	25010154	max. Earth dist.	9000 Sep 20 14:09	5° £ 21'15	1.31592 AU
evening max el	8999 Nov 14 02:24		27°19'54	evening rise	9000 Sep 27 12:37	20° £ 33'33	
retrograde	8999 Nov 19 22:04 8999 Nov 27 22:38	0°궁 2°궁37'38		desc. node	9000 Oct 02 02:43 9000 Oct 16 04:59	0° ጤ 24° ጤ 07'41	
retrograde evening set	8999 Nov 27 22:38 8999 Dec 05 00:11	2 03738 0° る 20'13		desc. node	9000 Oct 10 04:39 9000 Oct 20 13:41	0°×7	
evening set	8999 Dec 05 12:29	30°R <i>x</i> ⁷		evening max el	9000 Oct 27 04:18	7° √ 18'05	26°36'59
min. Earth dist.	8999 Dec 08 16:50	27° × 30'50	0.61639 AU	retrograde	9000 Nov 10 02:21	14° ₹ 25'33	20 300)
inferior conj	8999 Dec 11 17:24	24° ₹ '48'10	-3°14'41	evening set	9000 Nov 16 20:09	12° ₹ 32'10	
minimum elong	8999 Dec 11 23:38	24° ₰ 34'08	3°12'14	min. Earth dist.	9000 Nov 20 18:02	9° ∡ 56'43	0.59540 AU
morning rise	8999 Dec 19 01:24	19° х 49′05		inferior conj	9000 Nov 23 22:47	7° ∡ ¹26′28	-4°23'19
direct	8999 Dec 21 06:44	19° ∡ 27'59		minimum elong	9000 Nov 24 06:18	7° ∡ 11'41	4°21'05
asc. node	8999 Dec 21 22:07	19° ∡ 29'48		morning rise	9000 Dec 01 18:57	2° ∡ ⁴49'10	
morning max el	8999 Dec 28 05:54	22° ₹ 59'11	17°52'00	direct	9000 Dec 03 23:37	2° ∡ 31'48	
	9000 Jan 02 18:05	0°る		asc. node	9000 Dec 08 19:11	4° √ 00'22	10015100
morning set	9000 Jan 12 22:59	17°る32'49 0°≈		morning max el	9000 Dec 11 17:29 9000 Dec 26 17:41	6°ダ20'27 0°る	18°15'00
	9000 Jan 19 21:46	0 ≈		morning set	9000 Dec 26 17:41 9000 Dec 27 11:49	0 3 1° る 25'44	
superior conj	9000 Jan 23 17:34	6° ≈ 39'35	0°11'39	morning set	9000 Dec 27 11.49	1 023 44	
minimum elong	9000 Jan 23 18:37	6°≈44'07	0°11'42	superior conj	9001 Jan 05 21:14	18° る 58'35	0°46'11
behind sun begin	9000 Jan 23 12:46	6°≈19'00	V 11 .2	minimum elong	9001 Jan 06 00:18	19° る 12'27	0°46'00
behind sun end	9000 Jan 24 00:28	7° ≈ 09'12		desc. node	9001 Jan 12 04:03	0° ≈ 04'34	
desc. node	9000 Jan 25 07:06	9° ≈ 19'59			9001 Jan 12 02:59	0° ≈	
max. Earth dist.	9000 Jan 31 01:50	18° ≈ 57'57	1.43088 AU	max. Earth dist.	9001 Jan 13 12:00	2° ≈ 20'58	1.41157 AU
evening rise	9000 Feb 06 19:24	29° ≈ 43'57		evening rise	9001 Jan 18 06:05	10° ≈ 15′27	
	9000 Feb 06 23:30	0° ∀			9001 Jan 30 23:37	0° ∀	
	9000 Feb 27 06:51	0° Υ		evening max el	9001 Feb 21 07:06	27°) (43'09	23°11'14
evening max el	9000 Mar 10 15:17	13°Υ59'34	21°51'54	. 1	9001 Feb 23 17:45	0°Υ 3°Υ52'40	
retrograde	9000 Mar 19 21:21 9000 Mar 19 20:55	19° Y 28'13 19° Y 28'13		retrograde asc. node	9001 Mar 03 16:48 9001 Mar 06 18:03	3°Υ 52'40 3°Υ 06'54	
asc. node evening set	9000 Mar 19 20:33 9000 Mar 24 09:01	19° 7 28 13 17° Y 39'02		evening set	9001 Mar 08 15:54	3 1 00 34 1° Υ 48'54	
inferior conj	9000 Mar 29 16:27	11° Υ 20'08	2°43'20	evening set	9001 Mar 10 11:47	30°R) €	
minimum elong	9000 Mar 29 14:21	11° Y 27'27	2°42'49	min. Earth dist.	9001 Mar 13 14:36	25°) 59'37	0.68453 AU
min. Earth dist.	9000 Mar 29 17:47	11° Υ 15'28	0.68438 AU	inferior conj	9001 Mar 14 01:16	25°) €22'47	2°10'48
morning rise	9000 Apr 03 19:31	5° Y 08'14		minimum elong	9001 Mar 13 23:02	25°) € 30′27	2°10'09
direct	9000 Apr 08 17:39	3° Y 01'24		morning rise	9001 Mar 19 06:07	19° ∺ 16′09	
morning max el	9000 Apr 18 11:43	8° Y 46'22	22°34'24	direct	9001 Mar 23 14:28	17° ∺ 31′20	
desc. node	9000 Apr 23 07:06	14° Y 08'47		morning max el	9001 Apr 01 03:17	22°) €26'34	21°10'17
	9000 May 05 01:47	0°8			9001 Apr 07 15:12	0° Υ	
morning set	9000 May 22 09:22	26° ႘ 40'08		desc. node	9001 Apr 10 04:01	3° Y 20'48	
max. Earth dist.	9000 May 24 09:50 9000 May 27 05:17	0°Ⅱ 4°Ⅱ43'19	1.40493 AU	morning set	9001 Apr 28 08:51 9001 May 02 01:22	0° と 5° と 44'36	
max. Earth dist.	9000 May 27 03.17	4 Д43 19	1.40493 AU	max. Earth dist.	9001 May 02 01:22 9001 May 09 08:01	_	1.42575 AU
superior conj	9000 Jun 04 00:09	18° ∏ 21'41	-1°38'00	max. Earth dist.	7001 Way 07 00.01	17 02407	1.42373710
minimum elong	9000 Jun 04 06:02	18° Ⅱ 48'14		superior conj	9001 May 16 13:44	29° 8 29'59	-2°01'31
	9000 Jun 10 07:39	0ಂತ		minimum elong	9001 May 16 19:02	29° 8 52'39	2°01'22
evening rise	9000 Jun 14 01:35	7° © 03'51			9001 May 16 20:45	$\Pi^{\circ}0$	
asc. node	9000 Jun 15 19:45	10° © 22'25		evening rise	9001 May 28 01:58	19° ∏ 48′03	
	9000 Jun 27 15:11	$0^{\circ}\Omega$		asc. node	9001 Jun 02 16:48	29° ∏ 49'48	
evening max el	9000 Jun 30 02:47	2° Ω 47'53	18°23'05		9001 Jun 02 19:08	0°€	
retrograde	9000 Jul 07 14:08	6° £ 32'32		evening max el	9001 Jun 13 13:55	15°5544'09	18°06'21
evening set	9000 Jul 09 18:40	6° Ω 14'06	0052112	retrograde	9001 Jun 20 06:51	19°509'19	
inferior conj minimum elong	9000 Jul 17 06:17 9000 Jul 17 08:04	1° Ω 38'40 1° Ω 35'01	0°53'12 0°52'21	evening set inferior conj	9001 Jun 22 19:04 9001 Jun 29 12:58	18° © 40'47 13° © 45'20	2°04'41
minimum ciong	9000 Jul 17 08:04 9000 Jul 19 06:21	1 8€ 3301	0 3221	minimum elong	9001 Jun 29 12:38 9001 Jun 29 15:55	13°938'19	
desc. node	9000 Jul 20 06:27	29°9511'44		min. Earth dist.	9001 Jul 02 18:48	10° © 42'17	0.60617 AU
min. Earth dist.	9000 Jul 20 15:16	28°954'30	0.58381 AU	morning rise	9001 Jul 06 10:06	7° 9 51'09	
morning rise	9000 Jul 24 18:03	26°510'38		desc. node	9001 Jul 07 03:32	7° © 24'32	
direct	9000 Jul 30 20:14	24° © 33'05		direct	9001 Jul 13 00:03	5° 5 43'01	
	9000 Aug 11 18:03	$0^{\circ}\Omega$		morning max el	9001 Jul 27 07:26	13° © 40'57	27°50'56
morning max el	9000 Aug 14 05:39	2° Ω 16′03	27°11'40		9001 Aug 09 08:54	0 $^{\circ}$ Ω	
_	9000 Sep 03 05:26	0° m/			9001 Aug 26 14:37	0° m)	
asc. node	9000 Sep 11 19:28	16° Mp 23′09		morning set	9001 Aug 28 22:46	4° Mp 46'33	

,	0001 4 20 16 22	60m 10101		P. d. F.	0002 4 10 02 51	200 0 46111	1 22214 444
asc. node	9001 Aug 29 16:23	6° Mp 18'21	1.01511.477	max. Earth dist.	9002 Aug 18 03:51	29° Ω 46'11	1.32314 AU
max. Earth dist.	9001 Sep 03 23:13	17° m y 41'17	1.31711 AU		9002 Aug 18 06:26	0° m	
	0001.0 05.04.53	200m 2451	1001151		0002 4 20 12 10	40 W. 5 (12.1	0020120
superior conj	9001 Sep 05 04:53	20° m/24'51		superior conj	9002 Aug 20 13:19	4° m 56'31	
minimum elong	9001 Sep 05 02:41	20° m 12'42	1°01'26	minimum elong	9002 Aug 20 11:37	4° mp 47'13	0°39'02
	9001 Sep 09 13:03	0∘ ⊽		evening rise	9002 Aug 27 10:17	19° m 54'00	
evening rise	9001 Sep 11 22:44	5° ≙ 13'01			9002 Sep 01 07:24	0∘ ত	
	9001 Sep 24 21:38	0° M .		desc. node	9002 Sep 19 23:14	28° ≏ 16'32	
desc. node	9001 Oct 03 02:07	11°M52'40		evening max el	9002 Sep 20 09:58	28° ≏ 42'46	23°47'43
evening max el	9001 Oct 08 22:08	18°ML20'17	25°22'45		9002 Sep 21 19:30	0°M₊	
retrograde	9001 Oct 22 19:48	25°M21'12		retrograde	9002 Oct 04 00:36	5°M31'05	
evening set	9001 Oct 28 17:38	24°ML00'57		evening set	9002 Oct 08 14:28	4° M 45′18	
min. Earth dist.	9001 Nov 02 10:12	21°M22'02	0.57511 AU	min. Earth dist.	9002 Oct 14 20:22	1°M44'32	0.55846 AU
inferior conj	9001 Nov 05 08:58	19°M21'33	-5°17'21	inferior conj	9002 Oct 16 22:50	0°M28'40	-5°38'35
minimum elong	9001 Nov 05 14:47	19°ML11'37	5°16'18	minimum elong	9002 Oct 16 22:29	0°M29'11	5°38'27
morning rise	9001 Nov 13 14:15	15°ML06'51			9002 Oct 17 17:55	30° ₹ Ω	
direct	9001 Nov 15 23:07	14°M50'02		morning rise	9002 Oct 25 08:30	26° ₽ 33'06	
morning max el	9001 Nov 24 20:31	19° M 05'55	18°59'05	direct	9002 Oct 28 03:29	26° £ 13'30	
asc. node	9001 Nov 25 16:11	19°M55'10			9002 Nov 06 05:59	0° M	
	9001 Dec 02 23:34	0° ∡ 7		morning max el	9002 Nov 07 11:37	1°ML05'51	20°05'39
morning set	9001 Dec 11 10:31	15° ∡ 744'46		asc. node	9002 Nov 12 13:09	6°M59'21	
	9001 Dec 18 16:37	0°ਰ			9002 Nov 25 11:44	0° ⊼ ¹	
	7001 BCC 10 10.57	° C		morning set	9002 Nov 25 15:47	0° х 20′39	
superior conj	9001 Dec 19 19:41	2° ප 10'06	1°11'59	morning set	7002 110V 23 13.47	0 7 2037	
minimum elong	9001 Dec 19 19:41 9001 Dec 19 22:53	2° る 25'25	1°11'51	superior conj	9002 Dec 03 08:03	16° х 00′35	1°20'10
max. Earth dist.	9001 Dec 19 22:33 9001 Dec 26 18:03	2 3 2323	1.38996 AU	minimum elong	9002 Dec 03 10:24	16° ₹ 12'18	1°29'13
desc. node	9001 Dec 20 18:03 9001 Dec 30 01:01	13 00000 20°る46'33	1.36990 AU	max. Earth dist.	9002 Dec 03 10:24 9002 Dec 09 00:28	27° х 106′21	1.36858 AU
		20 3 40 33		max. Earth dist.		27 x ·0621	1.30838 AU
evening rise	9001 Dec 30 14:30	21 3 44 32 0° ≈			9002 Dec 10 13:30	0 3 4° る 07'16	
	9002 Jan 04 13:04			evening rise	9002 Dec 12 19:25		
	9002 Jan 24 23:19	0° ∀	24020150	desc. node	9002 Dec 16 22:01	11° ට 22'10	
evening max el	9002 Feb 03 20:46	11°) € 30'06	24°30'50		9002 Dec 28 12:44	0° ≈	25042120
retrograde	9002 Feb 15 08:34	18° ¥ 13′21		evening max el	9003 Jan 17 10:03	25°≈18'38	25°43'39
evening set	9002 Feb 20 19:56	15° ¥ 56′25		_	9003 Jan 23 01:52	0° ∀	
asc. node	9002 Feb 21 15:11	15° 米 12'36		retrograde	9003 Jan 29 19:36	2°) 24'42	
min. Earth dist.	9002 Feb 25 10:30	10°) 41′39	0.68057 AU	evening set	9003 Feb 04 19:29	29° ≈ 57'03	
inferior conj	9002 Feb 26 08:43	9° ∺ 27′23	1°29'31		9003 Feb 04 18:04	30°R ≈	
minimum elong	9002 Feb 26 06:50	9° ∺ 33'39	1°28'56	asc. node	9003 Feb 08 12:17	26° ≈ 03'08	
morning rise	9002 Mar 03 17:52	3° ¥ 27′27		min. Earth dist.	9003 Feb 09 03:09	25° ≈ 17'02	0.67271 AU
direct	9002 Mar 07 13:15	2° ∺ 04'26		inferior conj	9003 Feb 10 12:53	23° ≈ 30'04	0°39'46
morning max el	9002 Mar 15 02:11	6° 升 18′25	19°57'48	minimum elong	9003 Feb 10 11:54	23° ≈ 33'11	0°39'32
desc. node	9002 Mar 28 00:55	23° ₭ 03'58		morning rise	9003 Feb 16 04:48	17° ≈ 38'48	
	9002 Apr 01 17:28	0 ° Υ		direct	9003 Feb 19 12:30	16° ≈ 35'33	
morning set	9002 Apr 11 00:08	14° Ƴ 06'31		morning max el	9003 Feb 26 08:52	20° ≈ 20′22	19°00'15
	9002 Apr 21 04:00	9° 8			9003 Mar 06 02:44	0° ℋ	
max. Earth dist.	9002 Apr 21 17:55	0° 8 55'22	1.44226 AU	greatest brilliancy	9003 Mar 12 04:52	9° ₩ 01'10	-0.8m
				desc. node	9003 Mar 14 21:49	13°) €09'41	
superior conj	9002 Apr 27 02:57	9° 8 34'44	-2°12'14	morning set	9003 Mar 21 04:42	22°) 53′24	
minimum elong	9002 Apr 27 03:43	9° 8 37'51	2°12'23		9003 Mar 25 18:27	0° Y	
	9002 May 09 08:09	$\Pi^{\circ}0$		max. Earth dist.	9003 Apr 04 10:10	15° Ƴ 04'57	1.45260 AU
evening rise	9002 May 10 07:51	1° Ⅱ 41'21			_		
asc. node	9002 May 20 13:51	18° Ⅱ 54'32		superior conj	9003 Apr 06 17:54	18° Ƴ 44'15	-2°04'20
evening max el	9002 May 28 03:25	29° Ⅱ 01'39	18°08'42	minimum elong	9003 Apr 06 11:31	18° Ƴ 19'04	
Č	9002 May 29 04:41	0ം ഉ		Č	9003 Apr 13 20:02	0°8	
retrograde	9002 Jun 03 12:40	2°522'24		evening rise	9003 Apr 21 15:05	12° 8 36'10	
evening set	9002 Jun 06 08:30	1°941'17		evening rise	9003 May 02 09:21	0°Ⅱ	
evening sec	9002 Jun 08 21:39	30°RⅡ		asc. node	9003 May 07 10:55	7° Ⅱ 28'31	
inferior conj	9002 Jun 12 12:29	26° Ⅱ 26'59	2°50'12	evening max el	9003 May 11 16:07	12° II 31'35	18°29'21
•	9002 Jun 12 12:27	26° Ⅱ 20′21	2°49'28	-		12 Ⅱ 31 33	10 2721
minimum elong min. Earth dist.	9002 Jun 12 14:37 9002 Jun 15 07:07	28° H 20'21 23° H 28'54	0.62833 AU	retrograde	9003 May 18 03:20	16°Щ01'30 15°Щ06'43	
			0.02033 AU	evening set	9003 May 21 06:40		2017122
morning rise	9002 Jun 18 19:44	20° Ⅱ 17'26		inferior conj	9003 May 27 00:42	9° ∏ 34'58	3°14'22
desc. node	9002 Jun 24 00:35	17° II 53'26		minimum elong	9003 May 27 01:59	9° Ⅱ 31'10	3°14'00
direct	9002 Jun 25 13:49	17° II 45'42	07051156	min. Earth dist.	9003 May 29 04:35	7° I 101'05	0.64801 AU
morning max el	9002 Jul 09 14:30	25° Ⅱ 48'31	2/~31/36	morning rise	9003 Jun 01 20:25	3° Ⅱ 18'04	
	9002 Jul 13 11:17	0° ©		direct	9003 Jun 08 11:34	0° Ⅱ 34'00	
	9002 Aug 02 21:51	0°N		desc. node	9003 Jun 10 21:37	0° I 53'15	
morning set	9002 Aug 12 21:11	18° Ω 46'22		morning max el	9003 Jun 22 00:29	8° Ⅲ 30'41	27°17'48
asc. node	9002 Aug 16 13:17	26° Ω 21'19			9003 Jul 08 17:09	0ං ව	

	0002 I-1 26 06.14	000			0004 I 02 11-04	210 427152	26915120
	9003 Jul 26 06:14	0°Ω 2°Ω17'27		morning max el	9004 Jun 03 11:04	21° ႘ 36'53 0° Ⅱ	20-15-39
morning set	9003 Jul 27 10:40	$11^{\circ}\Omega 26'53$	1 22405 ATT		9004 Jun 10 18:07 9004 Jun 30 22:25	0°9	
max. Earth dist.	9003 Aug 01 00:25		1.33405 AU				
asc. node	9003 Aug 03 10:13	16° Ω 27'09		morning set	9004 Jul 09 11:49	15°5511'00	1 24076 ATT
	0002 A 04 17:05	100 0 10102	0012154	max. Earth dist.	9004 Jul 13 10:30	22°542'34	1.34976 AU
superior conj	9003 Aug 04 17:05	19° Ω 10′02			9004 Jul 17 02:33	0 ° Ω	
minimum elong	9003 Aug 04 16:26	19° Ω 06'37	0°12'35		0004 7 1 10 12 45	20 0 50102	0017100
behind sun begin	9003 Aug 04 12:59	18° Ω 48'18		superior conj	9004 Jul 18 13:45	2° Ω 59'03	
behind sun end	9003 Aug 04 19:53	19° Ω 24'56		minimum elong	9004 Jul 18 14:45	3° Ω 04'09	0°17/10
	9003 Aug 09 18:37	0° т р		asc. node	9004 Jul 20 07:10	6° Ω 32'11	
evening rise	9003 Aug 11 21:20	4° Mp 30′02		evening rise	9004 Jul 26 05:56	18° Ω 55'26	
	9003 Aug 25 17:01	0∘ ट			9004 Jul 31 18:42	0° m ∕	
evening max el	9003 Sep 01 22:52	8° ≏ 54'32	22°08'26	evening max el	9004 Aug 13 21:32	19° m 30'53	20°40'00
desc. node	9003 Sep 06 20:22	12° ≏ 49'53		desc. node	9004 Aug 23 17:32	25° Mp 02'14	
retrograde	9003 Sep 14 17:27	15° ≙ 15'57		retrograde	9004 Aug 25 05:41	25° Mp 08'00	
evening set	9003 Sep 17 19:52	14° ≏ 54'37		evening set	9004 Aug 27 08:13	24° m 57'11	
min. Earth dist.	9003 Sep 26 04:08	11° ≏ 16'14	0.54843 AU	inferior conj	9004 Sep 05 12:50	21°M)00'22	-3°44'33
inferior conj	9003 Sep 26 20:20	10° £ 53'31	-5°08'27	minimum elong	9004 Sep 05 03:28	21° Mp 13'48	3°41'42
minimum elong	9003 Sep 26 12:37	11° ≏ 04'21	5°07'05	min. Earth dist.	9004 Sep 06 13:04	20° m/25'35	0.54733 AU
morning rise	9003 Oct 05 06:56	7° £ 05'56		morning rise	9004 Sep 13 22:34	17° M 00'19	
direct	9003 Oct 08 16:13	6° £ 40'27		direct	9004 Sep 18 00:20	16° m) 24'46	
morning max el	9003 Oct 20 13:29	12° £ 16′09	21°33'49	morning max el	9004 Oct 01 05:10	22° m 46'01	23°17'08
asc. node	9003 Oct 30 10:06	24° £ 57'53	21 33 .,		9004 Oct 07 14:28	0° ರ	25 17 00
use. Houe	9003 Nov 02 08:43	0° M .		asc. node	9004 Oct 16 07:02	o — 13° Ω 37'48	
morning set	9003 Nov 10 01:07	15°M06'24		morning set	9004 Oct 24 12:30	29° £ 55'52	
morning set	9003 NOV 10 01.07	13 11600 24		morning set	9004 Oct 24 12:30 9004 Oct 24 13:16	0°M	
gumariar agni	0002 Nov. 17, 06:22	0° ⊀ 18'55	1°38'31		9004 Oct 24 13.10	O IIG	
superior conj	9003 Nov 17 06:22				0004 0-4 21 11-26	1.49 m 55122	1940/52
minimum elong	9003 Nov 17 07:27		1°38'40	superior conj	9004 Oct 31 11:26		
P. J. P.	9003 Nov 17 02:45	0° ∡ 7	1.24054.477	minimum elong	9004 Oct 31 11:16	14°M54'28	1°41'02
max. Earth dist.	9003 Nov 21 12:10	9° ∡ 00′20	1.34954 AU	max. Earth dist.	9004 Nov 03 07:40	20°M58'46	1.33431 AU
evening rise	9003 Nov 25 17:21	17° ∡ 14'46			9004 Nov 07 17:00	0° ∡	
	9003 Dec 02 18:04	0° ろ		evening rise	9004 Nov 08 04:28	0° ∡ 757'05	
desc. node	9003 Dec 03 19:02	1° る 47'00		desc. node	9004 Nov 19 16:05	21° ∡ *54'57	
	9003 Dec 22 20:56	0° ≈			9004 Nov 24 17:35	0°₹	
evening max el	9003 Dec 30 23:25	9° ≈ 02'23	26°42'21	evening max el	9004 Dec 12 12:10	22° る 30'42	27°19'41
retrograde	9004 Jan 13 01:08	16° ≈ 20'32		retrograde	9004 Dec 26 00:42	29° る 52'01	
evening set	9004 Jan 19 12:48	13° ≈ 46′07		evening set	9005 Jan 01 21:36	27° る 17'08	
min. Earth dist.	9004 Jan 23 14:20	9° ≈ 40'47	0.66109 AU	min. Earth dist.	9005 Jan 05 17:50	23°る45'00	0.64596 AU
inferior conj	9004 Jan 25 11:46	7° ≈ 26'48	-0°18'02	inferior conj	9005 Jan 08 02:58	21° ට 11'20	-1°23'03
minimum elong	9004 Jan 25 12:16	7° ≈ 25'20	0°17'36	minimum elong	9005 Jan 08 05:30	21° る 04'28	1°21'44
asc. node	9004 Jan 26 09:23	6° ≈ 23'34		asc. node	9005 Jan 12 06:29	17° る 11'15	
morning rise	9004 Jan 31 12:44	1° ≈ 46'31		morning rise	9005 Jan 14 15:01	15° ₹ 44'45	
direct	9004 Feb 03 10:17	0° ≈ 59'56		direct	9005 Jan 17 04:16	15° ට 11'07	
morning max el	9004 Feb 09 21:54	4° ≈ 27'54	18°19'02	morning max el	9005 Jan 23 14:37	18° ප 33'10	17°54'38
-	9004 Feb 27 13:48	0° ∀			9005 Feb 01 02:33	0° ≈	
morning set	9004 Feb 29 10:32	2° 升 59′10		morning set	9005 Feb 09 21:31	14° ≈ 30'36	
desc. node	9004 Feb 29 18:42	3°) €31'53		desc. node	9005 Feb 15 15:35	24°≈05'04	
					9005 Feb 19 06:14	0°) €	
superior conj	9004 Mar 15 23:09	27°){ 34'47	-1°36'37				
minimum elong	9004 Mar 15 13:33	26°) 57'11	1°35'38	superior conj	9005 Feb 23 13:38	6°) 57'10	-0°55'38
max. Earth dist.	9004 Mar 17 05:48	29°) 34'46	1.45565 AU	minimum elong	9005 Feb 23 07:20	6°) (31'54	
man. Darun dige.	9004 Mar 17 12:15	0°Υ	1.10000110	max. Earth dist.	9005 Feb 28 01:15		1.45123 AU
evening rise	9004 Mar 31 23:08	22° Υ 36'20		max. Lartii dist.	9005 Mar 10 06:51	0°Υ	1.43123710
evening rise	9004 Apr 05 16:24	0°8		evening rise	9005 Mar 11 14:11	2°Υ00'30	
greatest brilliancy	9004 Apr 11 17:02	9° 8 21'33	-0.8m	greatest brilliancy	9005 Mar 26 09:15	24° Υ 19'48	-0.6m
asc. node	-	25° 8 22'26	-0.6111	greatest billiancy		0° 8	-0.0111
	9004 Apr 23 08:01		10007126		9005 Mar 30 08:32	_	20001120
evening max el	9004 Apr 24 01:36	26° 8 08'20	19°07'26	evening max el	9005 Apr 07 06:07	9° 8 47'29	20°01'30
retrograde	9004 Apr 30 23:19	0° Ⅱ 00'46		asc. node	9005 Apr 10 05:10	12° 8 23'33	
	9004 Apr 30 14:32	0°II		retrograde	9005 Apr 14 21:42	14° 8 12'37	
	9004 May 01 08:04	30°R 8		evening set	9005 Apr 18 17:25	12° 8 47'41	2015124
evening set	9004 May 04 10:27	28° 8 50'54		inferior conj	9005 Apr 24 01:34	6° 8 46'11	3°15'24
inferior conj	9004 May 09 22:04	23° 8 03'20	3°21'37	minimum elong	9005 Apr 24 00:29	6° 8 49'50	3°15'09
minimum elong	9004 May 09 22:04	23° 8 03'20	3°21'26	min. Earth dist.	9005 Apr 24 23:39	5° 8 31'34	0.67534 AU
min. Earth dist.	9004 May 11 10:38	21° 8 06'02	0.66388 AU	morning rise	9005 Apr 29 07:16	0° 8 28'18	
morning rise	9004 May 15 09:14	16° 8 44'18			9005 Apr 29 20:21	30° ₹Ƴ	
direct	9004 May 21 16:11	13° 8 59'31		direct	9005 May 05 02:42	27° Y 52'48	
desc. node	9004 May 27 18:38	16° 8 02'02			9005 May 11 01:41	9° 8	

desc. node	9005 May 14 15:36	2° 8 48'23		min. Earth dist.	9006 Apr 08 17:25	20° Y ′09'04	0.68233 AU
morning max el	9005 May 16 20:43	4° 8 55'41	24°54'54	morning rise	9006 Apr 13 11:56	14° Υ 24'36	0.00200110
	9005 Jun 05 03:33	0°II		direct	9006 Apr 18 18:07	12° Υ '05'44	
morning set	9005 Jun 21 20:10	27° I I15'26		morning max el	9006 Apr 29 06:05	18° Y ′21′00	23°25'40
C	9005 Jun 23 08:58	0ಂತಾ		desc. node	9006 May 01 12:33	20° Y 45'51	
max. Earth dist.	9005 Jun 25 10:50	3° 5 47'09	1.36957 AU		9006 May 09 00:20	0°8	
					9006 May 29 06:04	$\Pi^{\circ}0$	
superior conj	9005 Jul 02 00:22	16°©16'11	-0°49'14	morning set	9006 Jun 03 06:14	8° Ⅱ 15'43	
minimum elong	9005 Jul 02 03:26	16° © 31'13	0°48'55	max. Earth dist.	9006 Jun 07 06:48	15° Ⅱ 09'42	1.39191 AU
asc. node	9005 Jul 07 04:10	26°532'43					
	9005 Jul 08 21:15	$0^{\circ}\Omega$		superior conj	9006 Jun 14 21:06	28° ∏ 51'41	-1°21'06
evening rise	9005 Jul 10 09:45	3° Ω 03'49		minimum elong	9006 Jun 15 02:13	29° Ⅱ 15′29	1°20'36
	9005 Jul 26 13:43	0° m			9006 Jun 15 11:45	0 \circ \odot	
evening max el	9005 Jul 27 09:46	0° m 51'40	19°30'28	evening rise	9006 Jun 24 05:53	16° 5 46'51	
retrograde	9005 Aug 06 00:58	5° m 37'32		asc. node	9006 Jun 24 01:11	16° 5 24'07	
evening set	9005 Aug 07 21:11	5° ™ 27'50			9006 Jul 01 07:17	$0^{\circ}\Omega$	
desc. node	9005 Aug 10 14:40	4° m 40'43		evening max el	9006 Jul 10 09:53	12° Ω 56′21	18°41'47
inferior conj	9005 Aug 16 14:59	1° m ,22'27	-1°50'56	retrograde	9006 Jul 18 12:54	16° Ω 58'43	
minimum elong	9005 Aug 16 09:58	1° Mp 30'28	1°49'08	evening set	9006 Jul 20 13:26	16° Ω 44'37	
	9005 Aug 18 18:34	30° R Ω		desc. node	9006 Jul 28 11:48	12° Ω 22'28	
min. Earth dist.	9005 Aug 19 01:17	29° Ω 49'28	0.55573 AU	inferior conj	9006 Jul 28 12:26	12° Ω 21′19	-0°00'28
morning rise	9005 Aug 24 20:16	26° Ω 51'18		minimum elong	9006 Jul 28 12:24	12° Ω 21'22	0°00'40
direct	9005 Aug 29 17:21	25° Ω 57'47		transit middle	9006 Jul 28 12:24	12° Ω 21′22	0°00'40
	9005 Sep 09 04:48	O° m		transit begin	9006 Jul 28 08:44	12° Ω 28′10	
morning max el	9005 Sep 12 17:24	2° m 59'10	25°02'18	transit end	9006 Jul 28 16:03	12° Ω 14'33	
	9005 Oct 01 16:27	0∘ ত		min. Earth dist.	9006 Jul 31 17:49	9° Ω 58'15	0.57208 AU
asc. node	9005 Oct 03 03:59	2° £ 48'47		morning rise	9006 Aug 05 07:53	7° Ω 13′07	
morning set	9005 Oct 09 00:13	14° £ 44'11		direct	9006 Aug 11 00:47	5° Ω 52'56	
				morning max el	9006 Aug 25 08:31	13° Ω 23′24	26°32'27
superior conj	9005 Oct 15 20:47	29° ≏ 42'33	1°36'59		9006 Sep 07 11:45	o° my	
minimum elong	9005 Oct 15 19:34	29° £ 35'51	1°37'02	asc. node	9006 Sep 20 00:55	22° m 21'48	
	9005 Oct 15 23:58	0°M₊		morning set	9006 Sep 23 10:35	29° m 25'28	
max. Earth dist.	9005 Oct 17 10:50	3°M10'45	1.32355 AU		9006 Sep 23 17:04	0∘ ⊽	
evening rise	9005 Oct 23 01:27	15° M 05'47					
	9005 Oct 30 17:51	0°⊀		superior conj	9006 Sep 30 08:15	14° ≏ 32'32	1°27'26
desc. node	9005 Nov 06 13:11	11° ∡ ³38'52		minimum elong	9006 Sep 30 06:18	14° ≏ 21'47	1°27'17
	9005 Nov 19 17:23	0°ಕ		max. Earth dist.	9006 Sep 30 19:10	15° ≏ 33'07	1.31743 AU
evening max el	9005 Nov 24 22:47	5° ರ 32'31	27°29'06	evening rise	9006 Oct 07 05:22	29° ≙ 31'48	
retrograde	9005 Dec 08 17:32	12° る 50'13			9006 Oct 07 10:44	0° M	
evening set	9005 Dec 15 19:07	10° පි 23'34			9006 Oct 23 21:38	0° ∡ 7	
min. Earth dist.	9005 Dec 19 11:59	7° る 20'33	0.62783 AU	desc. node	9006 Oct 24 10:18	0° ∡ 748'07	
inferior conj	9005 Dec 22 07:40	4° る 37'21	-2°33'20	evening max el	9006 Nov 07 04:49	17° ∡ ¹54'39	27°05'48
minimum elong	9005 Dec 22 12:36	4° る 25'26	2°31'11	retrograde	9006 Nov 21 02:21	25° ₹ 05'20	
	9005 Dec 28 02:18	30°Ŗ ⋌ ¹		evening set	9006 Nov 28 01:38	22° ₰ 757'14	
morning rise	9005 Dec 29 08:15	29° ∡ ¹27'17		min. Earth dist.	9006 Dec 01 19:32	20° ∡ 15′08	0.60752 AU
asc. node	9005 Dec 30 03:33	29° ҂ 13'14		inferior conj	9006 Dec 04 22:34	17° ∡ ³35'55	-3°44'44
direct	9005 Dec 31 15:30	29° ₰ 02'46		minimum elong	9006 Dec 05 05:35	17° ∡ °20′59	3°42'15
	9006 Jan 04 03:03	0°ರ		morning rise	9006 Dec 12 11:56	12° ∡ ⁴45'30	
morning max el	9006 Jan 07 07:59	2° る 28'23	17°47'39	direct	9006 Dec 14 16:24	12° ∡ 26′26	
morning set	9006 Jan 23 08:48	27° る 11'54		asc. node	9006 Dec 17 00:36	12° ∡ ¹49'14	
	9006 Jan 24 23:05	0° ≈		morning max el	9006 Dec 21 22:36	16° ∡ °04'19	17°59'15
desc. node	9006 Feb 02 12:30	14° ≈ 45′26			9006 Dec 31 15:49	0°る	
				morning set	9007 Jan 06 13:55	10° る 43'29	
superior conj	9006 Feb 04 02:46	17° ≈ 25'53					
minimum elong	9006 Feb 04 01:35	17° ≈ 20'58	0°11'24	superior conj	9007 Jan 16 17:13	29° る 06'49	0°27'20
behind sun begin	9006 Feb 03 19:05	16° ≈ 53'49		minimum elong	9007 Jan 16 19:24	29° る 16'25	0°27'14
behind sun end	9006 Feb 04 08:05	17° ≈ 48′04			9007 Jan 17 05:20	0° ≈	
max. Earth dist.	9006 Feb 10 18:09	28°≈18'21	1.43997 AU	desc. node	9007 Jan 20 09:26	5° ≈ 29'21	
	9006 Feb 11 19:31	0°) (max. Earth dist.	9007 Jan 24 07:05	12° ≈ 03'33	1.42310 AU
evening rise	9006 Feb 19 02:05	11° ∺ 25'07		evening rise	9007 Jan 30 01:41	21° ≈ 26′12	
	9006 Mar 03 10:14	0°Υ			9007 Feb 04 13:18	0° ∀	
evening max el	9006 Mar 21 05:07	23° Y 27'55	21°08'52		9007 Feb 25 16:51	0° Υ	
asc. node	9006 Mar 28 02:19	28° Y 17'14		evening max el	9007 Mar 03 23:14	7° Y 10′30	22°25'22
retrograde	9006 Mar 29 20:11	28° Y 32'35		retrograde	9007 Mar 13 17:00	12° Y 56'40	
evening set	9006 Apr 03 01:37	26° Y 52′24		asc. node	9007 Mar 14 23:27	12° Y 48'37	
inferior conj	9006 Apr 08 08:44	20° Y 39'12		evening set	9007 Mar 18 09:24	11° Υ 01'20	
minimum elong	9006 Apr 08 06:53	20° Y 45'35	2°57′31	inferior conj	9007 Mar 23 17:28	4° Ƴ 39'11	2°30'39

minimum elong	9007 Mar 23 15:15	4° Ƴ 46'52	2°30'04	min. Earth dist.	9008 Mar 06 10:14	19°) 35′55	0.68334 AU
min. Earth dist.	9007 Mar 23 13:42	4° Υ 52'18	0.68493 AU	inferior conj	9008 Mar 07 01:52	18°) (33'35	1°54'19
mm. Lattii dist.	9007 Mar 27 07:58	30° ₹	0.00473 AC	minimum elong	9008 Mar 06 23:44	18°) (42'53	1°53'41
morning rise	9007 Mar 28 20:57	28°)(29'23		morning rise	9008 Mar 12 08:15	12°) (38'51	1 33 41
direct	9007 Apr 02 13:18	26°\(\frac{1}{2}\)31'30		direct	9008 Mar 16 11:02	11°) 03'25	
	9007 Apr 09 17:17	0°Υ		morning max el	9008 Mar 24 12:42	15° H 39'14	20°37'53
morning max el	9007 Apr 11 18:15	1° Υ 54'24	21°57'33	desc. node	9008 Apr 04 06:20	29°) (01'00	20 3, 03
desc. node	9007 Apr 18 09:28	9° Υ 34'54	21 0,33	dose. Hode	9008 Apr 04 23:08	0°Υ	
	9007 May 02 22:23	0°8		morning set	9008 Apr 22 19:56	26° Ƴ 40'40	
morning set	9007 May 14 13:28	18° 8 01'10		3	9008 Apr 24 23:03	0°8	
max. Earth dist.	9007 May 20 06:06	27° 8 20'25	1.41415 AU	max. Earth dist.	9008 May 01 12:29		1.43343 AU
	9007 May 21 20:09	0° I I			,	_	
	,			superior conj	9008 May 08 02:46	21° 8 16'07	-2°08'00
superior conj	9007 May 27 23:26	10° Ⅱ 35'15	-1°49'07	minimum elong	9008 May 08 06:41	21° 8 32'29	
minimum elong	9007 May 28 05:27	11° Ⅱ 01'47	1°48'45	Č	9008 May 13 06:18	0° I I	
evening rise	9007 Jun 07 14:43	29° Ⅱ 55'44		evening rise	9008 May 20 07:45	12° Ⅱ 19'13	
	9007 Jun 07 15:38	0°€		asc. node	9008 May 27 19:16	25° Ⅲ 20'30	
asc. node	9007 Jun 10 22:14	6°502'03			9008 May 30 15:54	0°ಲ	
evening max el	9007 Jun 23 18:07	25°536'50	18°13'35	evening max el	9008 Jun 06 06:35	8°542'37	18°05'02
retrograde	9007 Jun 30 20:02	29° © 10'58		retrograde	9008 Jun 12 18:59	12° © 04'18	
evening set	9007 Jul 03 03:57	28°548'28		evening set	9008 Jun 15 10:29	11° © 30'34	
inferior conj	9007 Jul 10 07:36	24°504'17	1°26'52	inferior conj	9008 Jun 21 21:56	6°€26'35	2°26'53
minimum elong	9007 Jul 10 10:10	23°958'42	1°25'46	minimum elong	9008 Jun 22 00:50	6°€19′20	2°25'55
min. Earth dist.	9007 Jul 13 16:31	21° © 09'26	0.59322 AU	min. Earth dist.	9008 Jun 24 23:31	3°523'12	0.61574 AU
desc. node	9007 Jul 15 08:54	19° © 50'25		morning rise	9008 Jun 28 12:57	0°524'37	
morning rise	9007 Jul 17 13:17	18° © 24'11			9008 Jun 29 03:52	30°R Ⅱ	
direct	9007 Jul 23 21:31	16°533'17		desc. node	9008 Jul 01 05:58	28° ∏ 54'31	
morning max el	9007 Aug 07 06:14	24°522'44	27°32'55	direct	9008 Jul 05 05:24	28° Ⅱ 05'41	
-	9007 Aug 12 09:03	$0^{\circ}\Omega$			9008 Jul 11 17:31	0°ಲಾ	
	9007 Aug 31 18:05	0° m y		morning max el	9008 Jul 19 10:39	6°∽06′28	27°56'05
asc. node	9007 Sep 06 21:51	12° m 10'37			9008 Aug 06 11:06	$0^{\circ}\Omega$	
morning set	9007 Sep 07 17:53	13° m 55'07		morning set	9008 Aug 21 20:12	28° Ω 07'49	
max. Earth dist.	9007 Sep 14 05:13	27° m 57'56	1.31596 AU	-	9008 Aug 22 17:56	0° m	
				asc. node	9008 Aug 23 18:46	2° Mp 09'49	
superior conj	9007 Sep 14 19:57	29° m 19'40	1°12'38	max. Earth dist.	9008 Aug 27 13:07	10° m 14'10	1.31912 AU
minimum elong	9007 Sep 14 17:42	29° m 07'14	1°12'17				
	9007 Sep 15 03:13	0∘ ত		superior conj	9008 Aug 29 06:07	13° m 58'33	0°52'56
evening rise	9007 Sep 21 13:50	14° ≙ 08'21		minimum elong	9008 Aug 29 04:03	13° m /47'14	0°52'28
	9007 Sep 29 11:21	0° M.		evening rise	9008 Sep 05 00:48	28° Mp 49'25	
desc. node	9007 Oct 11 07:25	19°M09'05			9008 Sep 05 14:00	0∘ ত	
evening max el	9007 Oct 20 03:33	29°M26'55	26°08'42		9008 Sep 22 05:28	0° M.	
	9007 Oct 20 17:46	0° ∡		desc. node	9008 Sep 27 04:33	6°M23'10	
retrograde	9007 Nov 03 01:32	6° х 30′46		evening max el	9008 Sep 30 18:14	10°M09'53	24°43'52
evening set	9007 Nov 09 12:30	4° ₰ 750'55		retrograde	9008 Oct 14 13:41	17° M 06'39	
min. Earth dist.	9007 Nov 13 16:31	2° ≯ 16'16	0.58661 AU	evening set	9008 Oct 19 23:29	16°M01'12	
inferior conj	9007 Nov 16 20:06	29°M56'59	-4°48'58	min. Earth dist.	9008 Oct 25 05:22	13°M15'27	0.56745 AU
minimum elong	9007 Nov 17 03:24	29°M43'29	4°47'09	inferior conj	9008 Oct 27 21:38	11°M32'17	-5°31'34
	9007 Nov 16 18:29	30°RML		minimum elong	9008 Oct 28 01:20	11°M26'17	5°31'05
morning rise	9007 Nov 24 20:39	25°M29'02		morning rise	9008 Nov 05 05:25	7°M26'53	
direct	9007 Nov 27 02:34	25°M12'10		direct	9008 Nov 07 18:02	7° ™ 09'14	
asc. node	9007 Dec 03 21:37	27°M57'04		morning max el	9008 Nov 17 05:16	11° M 38'57	19°24'39
morning max el	9007 Dec 05 06:54	29°M11'07	18°31'01	asc. node	9008 Nov 19 18:35	14°M23'48	
	9007 Dec 06 02:12	0°⊀			9008 Nov 29 15:17	0° √	
morning set	9007 Dec 21 07:25	24° ₰ ⁴49'01		morning set	9008 Dec 04 09:18	9° √ 17'01	
	9007 Dec 23 23:52	0°₹					
		_		superior conj	9008 Dec 12 10:28	25° ₹ 20'22	1°20'17
superior conj	9007 Dec 30 05:27	11° る 49'40	0°58'14	minimum elong	9008 Dec 12 13:23	25° ∡ ³34'36	1°20'13
minimum elong	9007 Dec 30 08:45	12° る 04'57	0°58'02		9008 Dec 14 20:21	0°ಕ	
max. Earth dist.	9008 Jan 06 15:40	25° る 09'33	1.40254 AU	max. Earth dist.	9008 Dec 18 21:34		1.38070 AU
desc. node	9008 Jan 07 06:22	26° ප 13'06		evening rise	9008 Dec 22 15:01	14° る 15'14	
	9008 Jan 09 11:36	0° ≈		desc. node	9008 Dec 24 03:21	16° る 53'18	
evening rise	9008 Jan 10 21:28	2°≈21'54			9009 Jan 01 01:55	0° ≈	
	9008 Jan 28 20:41	0° ∀			9009 Jan 22 17:19	0° ∀	
evening max el	9008 Feb 14 13:56	20° ∺ 55'36	23°45'32	evening max el	9009 Jan 27 03:08	4°) 43′27	25°02'56
retrograde	9008 Feb 25 10:49	27°) 19′58		retrograde	9009 Feb 08 00:43	11°) 38′00	
asc. node	9008 Feb 29 20:34	25°) 46′53		evening set	9009 Feb 13 17:32	9°) 15'47	
evening set	9008 Mar 01 15:12	25° ℋ 10'16		asc. node	9009 Feb 15 17:39	7°) (17'14	

min. Earth dist.	9009 Feb 18 04:56	4° ¥ 16'02	0.67773 AU	asc. node	9010 Feb 02 14:46	17° ≈ 48'17	
inferior conj	9009 Feb 19 08:09	2°) (46'54	1°09'24	inferior conj	9010 Feb 03 10:21	16° ≈ 47'37	0°16'11
minimum elong	9009 Feb 19 06:35	2°\ 52'02		minimum elong	9010 Feb 03 09:55	16° ≈ 48'57	0°16'12
minimum crong	9009 Feb 21 12:57	30°R≈	1 00 50	morning rise	9010 Feb 09 05:51	11° ≈ 00'45	0 10 12
morning rise	9009 Feb 24 19:55	26°≈50'40		direct	9010 Feb 12 08:55	10°≈05'12	
direct	9009 Feb 28 10:07	25°≈36'33		morning max el	9010 Feb 19 00:48	13° ≈ 41'45	18°40'36
morning max el	9009 Mar 07 15:07	29° ≈ 36'32	19°31'24	morning max er	9010 Mar 03 03:10	0° ∀	10 40 50
morning max cr	9009 Mar 08 00:28	0° ∀	1) 3124	desc. node	9010 Mar 09 00:08	9° ∺ 07'50	
greatest brilliancy	9009 Mar 20 08:41	16° ¥ 16'33	-0.7m	morning set	9010 Mar 12 07:47	14° ∺ 20′21	
desc. node	9009 Mar 22 03:14	18°) 54'34	-0.7111	morning set	9010 Mar 12 07:47 9010 Mar 22 07:34	0°Υ	
desc. flode	9009 Mar 22 03:14 9009 Mar 29 10:48	10 γ (3434		max. Earth dist.	9010 Mar 27 18:43	8° Υ 33'04	1.45479 AU
morning sot	9009 Apr 01 18:01	5° Υ 04'15		max. Earth dist.	9010 Wai 27 16.43	0 1 33 04	1.43479 AU
morning set max. Earth dist.	9009 Apr 14 01:19	24°Υ15'07	1.44748 A U	superior conj	9010 Mar 28 14:19	9° Y '49'46	105447
max. Earm dist.	-	0° 8	1.44/46 AU	minimum elong		9° Υ 16'04	
	9009 Apr 17 16:05	0.0		minimum eiong	9010 Mar 28 05:42	9 1 10 04 0° 8	1 3411
	0000 A 10 05.24	00052157	2011124		9010 Apr 10 08:54	4° 8 17'51	
superior conj	9009 Apr 18 05:34	0° 8 53'57		evening rise	9010 Apr 13 01:28	_	0.0
minimum elong	9009 Apr 18 03:18	0° 8 44'53	2-11-29	greatest brilliancy	9010 Apr 20 16:44	16° 8 30'44	-0.9m
evening rise	9009 May 02 04:22	23° 8 47'54		•	9010 Apr 29 15:13	0°П	
	9009 May 05 21:07	0°II		asc. node	9010 May 01 13:24	2° Ⅱ 31'12	10042124
asc. node	9009 May 14 16:19	14° Ⅱ 12'55		evening max el	9010 May 04 07:33	5° Ⅱ 38'42	18°43'34
evening max el	9009 May 20 19:58	22° ∏ 05'19	18°15'18	retrograde	9010 May 10 22:24	9° Ⅱ 17'05	
retrograde	9009 May 27 05:09	25° Ⅱ 28'54		evening set	9010 May 14 04:54	8° Ⅱ 15'56	
evening set	9009 May 30 04:02	24° ∏ 42'05		inferior conj	9010 May 19 19:50	2° Ⅱ 37'30	3°19'17
inferior conj	9009 Jun 05 03:19	19° Ⅱ 20'05	3°02'46	minimum elong	9010 May 19 20:33	2° Ⅱ 35'17	3°19'01
minimum elong	9009 Jun 05 05:19	19° Ⅱ 14'26	3°02'13	min. Earth dist.	9010 May 21 17:17	0° Ⅱ 17'40	0.65523 AU
min. Earth dist.	9009 Jun 07 15:52	16° Ⅲ 30'11	0.63702 AU		9010 May 21 23:11	30° ₹ 8	
morning rise	9009 Jun 11 05:16	13° Ⅱ 06'15		morning rise	9010 May 25 11:30	26° 8 19'04	
direct	9009 Jun 17 22:44	10° Ⅱ 27'49		direct	9010 May 31 23:46	23° 8 32'57	
desc. node	9009 Jun 18 03:00	10° Ⅱ 27'55		desc. node	9010 Jun 05 00:02	24° 8 26'07	
morning max el	9009 Jul 01 19:29	18° Ⅲ 30′21	27°41'28		9010 Jun 12 19:39	Π $^{\circ}0$	
	9009 Jul 11 11:40	0 \circ \odot		morning max el	9010 Jun 14 05:55	1° Ⅲ 24′00	26°54'16
	9009 Jul 30 09:02	$0^{\circ}\Omega$			9010 Jul 05 14:13	0 \circ \odot	
morning set	9009 Aug 05 15:12	11° Ω 56′27		morning set	9010 Jul 19 23:56	25° © 13'03	
T (1 1)	0000 4 10 14 44	220 000122	1.32709 AU		0010 7 1 00 11 00	00.0	
max. Earth dist.	9009 Aug 10 14:44	22° ん 09′23	1.32/09 AU		9010 Jul 22 11:02	0 $^{\circ}\Omega$	
max. Earth dist.	9009 Aug 10 14:44 9009 Aug 10 15:41	$22^{\circ} \Omega 14'24$	1.32/09 AU	max. Earth dist.	9010 Jul 22 11:02 9010 Jul 24 06:44	3° Ω 37'33	1.34005 AU
	-		1.32709 AU	max. Earth dist.			1.34005 AU
	-		0°28'42	max. Earth dist.			1.34005 AU 0°00'32
asc. node	9009 Aug 10 15:41	22° Ω 14'24			9010 Jul 24 06:44	3° Ω 37'33	
asc. node superior conj	9009 Aug 10 15:41 9009 Aug 13 12:48	22°Ω14'24 28°Ω22'57	0°28'42	superior conj	9010 Jul 24 06:44 9010 Jul 28 13:55	3°Ω37'33 12°Ω27'09	0°00'32
asc. node superior conj	9009 Aug 10 15:41 9009 Aug 13 12:48 9009 Aug 13 11:29	22°\Omega 14'24 28°\Omega 22'57 28°\Omega 15'48	0°28'42	superior conj minimum elong	9010 Jul 24 06:44 9010 Jul 28 13:55 9010 Jul 28 13:53	3°\Omega37'33 12°\Omega27'09 12°\Omega27'02	0°00'32
asc. node superior conj minimum elong	9009 Aug 10 15:41 9009 Aug 13 12:48 9009 Aug 13 11:29 9009 Aug 14 06:47	22° \$\Omega 14'24 28° \$\Omega 22'57 28° \$\Omega 15'48 0° \$\Omega\$	0°28'42	superior conj minimum elong behind sun begin	9010 Jul 24 06:44 9010 Jul 28 13:55 9010 Jul 28 13:53 9010 Jul 28 08:12	3° N 37'33 12° N 27'09 12° N 27'02 11° N 57'19	0°00'32
asc. node superior conj minimum elong	9009 Aug 10 15:41 9009 Aug 13 12:48 9009 Aug 13 11:29 9009 Aug 14 06:47 9009 Aug 20 12:22 9009 Aug 28 18:52	22°\$\Omega\$14'24 28°\$\Omega\$22'57 28°\$\Omega\$15'48 0°\$\Omega\$13°\$\Omega\$28'40	0°28'42 0°28'17	superior conj minimum elong behind sun begin behind sun end asc. node	9010 Jul 24 06:44 9010 Jul 28 13:55 9010 Jul 28 13:53 9010 Jul 28 08:12 9010 Jul 28 19:35 9010 Jul 28 12:39	3° £037'33 12° £027'09 12° £027'02 11° £057'19 12° £056'48 12° £020'32	0°00'32
asc. node superior conj minimum elong evening rise	9009 Aug 10 15:41 9009 Aug 13 12:48 9009 Aug 13 11:29 9009 Aug 14 06:47 9009 Aug 20 12:22 9009 Aug 28 18:52 9009 Sep 12 05:13	22°\$\Omega\$14'24 28°\$\Omega\$22'57 28°\$\Omega\$15'48 0°\$\Omega\$13°\$\Omega\$28'40 0°\$\Omega\$	0°28'42 0°28'17	superior conj minimum elong behind sun begin behind sun end	9010 Jul 24 06:44 9010 Jul 28 13:55 9010 Jul 28 13:53 9010 Jul 28 08:12 9010 Jul 28 19:35	3°\O37'33 12°\O27'09 12°\O27'02 11°\O57'19 12°\O56'48	0°00'32
asc. node superior conj minimum elong evening rise evening max el	9009 Aug 10 15:41 9009 Aug 13 12:48 9009 Aug 13 11:29 9009 Aug 14 06:47 9009 Aug 20 12:22 9009 Aug 28 18:52	22°\$\Omega 14'24 28°\$\Omega 22'57 28°\$\Omega 15'48 0°\$\mathred{m} 13°\$\mathred{m} 28'40 0°\$\omega 22'56	0°28'42 0°28'17	superior conj minimum elong behind sun begin behind sun end asc. node	9010 Jul 24 06:44 9010 Jul 28 13:55 9010 Jul 28 13:53 9010 Jul 28 08:12 9010 Jul 28 19:35 9010 Jul 28 12:39 9010 Aug 04 22:38	3°\Omega 37'33 12°\Omega 27'09 12°\Omega 27'02 11°\Omega 57'19 12°\Omega 56'48 12°\Omega 20'32 28°\Omega 00'46	0°00'32
asc. node superior conj minimum elong evening rise evening max el desc. node	9009 Aug 10 15:41 9009 Aug 13 12:48 9009 Aug 13 11:29 9009 Aug 14 06:47 9009 Aug 20 12:22 9009 Aug 28 18:52 9009 Sep 12 05:13 9009 Sep 14 01:42	22° \$\Omega 14'24\) 28° \$\Omega 22'57\) 28° \$\Omega 15'48\) 0° \$\Omega \) 13° \$\Omega 28'40\) 0° \$\Omega \) 20° \$\Omega 22'56\) 22° \$\Omega 04'11	0°28'42 0°28'17	superior conj minimum elong behind sun begin behind sun end asc. node	9010 Jul 24 06:44 9010 Jul 28 13:55 9010 Jul 28 13:53 9010 Jul 28 08:12 9010 Jul 28 19:35 9010 Jul 28 12:39 9010 Aug 04 22:38 9010 Aug 05 21:27	3° N 37'33 12° N 27'09 12° N 27'02 11° N 57'19 12° N 56'48 12° N 20'32 28° N 00'46 0° M	0°00'32 0°00'19
asc. node superior conj minimum elong evening rise evening max el desc. node retrograde	9009 Aug 10 15:41 9009 Aug 13 12:48 9009 Aug 13 11:29 9009 Aug 14 06:47 9009 Aug 20 12:22 9009 Aug 28 18:52 9009 Sep 12 05:13 9009 Sep 14 01:42 9009 Sep 25 13:38	22° \$\Omega 14'24\) 28° \$\Omega 22'57\) 28° \$\Omega 15'48\) 0° \$\Omega \) 13° \$\Omega 28'40\) 0° \$\Omega \) 20° \$\Omega 22'56\) 22° \$\Omega 04'11\) 27° \$\Omega 02'59\)	0°28'42 0°28'17	superior conj minimum elong behind sun begin behind sun end asc. node evening rise	9010 Jul 24 06:44 9010 Jul 28 13:55 9010 Jul 28 13:53 9010 Jul 28 08:12 9010 Jul 28 19:35 9010 Jul 28 12:39 9010 Aug 04 22:38 9010 Aug 05 21:27 9010 Aug 24 04:54	3° £37'33 12° £27'09 12° £27'02 11° £57'19 12° £56'48 12° £20'32 28° £00'46 0° ₱ 0° ₽	0°00'32 0°00'19
asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set	9009 Aug 10 15:41 9009 Aug 13 12:48 9009 Aug 13 11:29 9009 Aug 14 06:47 9009 Aug 20 12:22 9009 Aug 28 18:52 9009 Sep 12 05:13 9009 Sep 14 01:42 9009 Sep 25 13:38 9009 Sep 29 11:49	22° \$\Omega 14'24\) 28° \$\Omega 22'57\) 28° \$\Omega 15'48\) 0° \$\Omega \) 13° \$\Omega 28'40\) 0° \$\Omega \) 20° \$\Omega 22'56\) 22° \$\Omega 04'11\) 27° \$\Omega 02'59\) 26° \$\Omega 29'19	0°28'42 0°28'17 23°05'04 0.55316 AU	superior conj minimum elong behind sun begin behind sun end asc. node evening rise	9010 Jul 24 06:44 9010 Jul 28 13:55 9010 Jul 28 13:53 9010 Jul 28 08:12 9010 Jul 28 19:35 9010 Jul 28 12:39 9010 Aug 04 22:38 9010 Aug 05 21:27 9010 Aug 24 04:54 9010 Aug 24 21:34 9010 Aug 31 22:51	3° £37'33 12° £27'09 12° £27'02 11° £57'19 12° £56'48 12° £20'32 28° £000'46 0° ∰ 0° £ 0° £42'10	0°00'32 0°00'19
asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist.	9009 Aug 10 15:41 9009 Aug 13 12:48 9009 Aug 13 11:29 9009 Aug 14 06:47 9009 Aug 20 12:22 9009 Aug 28 18:52 9009 Sep 12 05:13 9009 Sep 14 01:42 9009 Sep 25 13:38 9009 Sep 29 11:49 9009 Oct 06 14:13	22° \$\Omega 14'24\) 28° \$\Omega 22'57\) 28° \$\Omega 15'48\) 0° \$\Omega \) 13° \$\Omega 28'40\) 0° \$\Omega \) 20° \$\Omega 22'56\) 22° \$\Omega 04'11\) 27° \$\Omega 02'59\) 26° \$\Omega 29'19\) 23° \$\Omega 14'08\)	0°28'42 0°28'17 23°05'04 0.55316 AU -5°32'51	superior conj minimum elong behind sun begin behind sun end asc. node evening rise	9010 Jul 24 06:44 9010 Jul 28 13:55 9010 Jul 28 13:53 9010 Jul 28 08:12 9010 Jul 28 19:35 9010 Jul 28 12:39 9010 Aug 04 22:38 9010 Aug 05 21:27 9010 Aug 24 04:54 9010 Aug 24 21:34	3° £337'33 12° £27'09 12° £27'02 11° £57'19 12° £56'48 12° £20'32 28° £00'46 0° £ 0° £ 0° £42'10 5° £41'14	0°00'32 0°00'19
asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj	9009 Aug 10 15:41 9009 Aug 13 12:48 9009 Aug 13 11:29 9009 Aug 14 06:47 9009 Aug 20 12:22 9009 Aug 28 18:52 9009 Sep 12 05:13 9009 Sep 14 01:42 9009 Sep 25 13:38 9009 Sep 29 11:49 9009 Oct 06 14:13 9009 Oct 08 03:40	22° \$\Omega 14'24\) 28° \$\Omega 22'57\) 28° \$\Omega 15'48\) 0° \$\Omega \) 13° \$\Omega 28'40\) 0° \$\Omega \) 20° \$\Omega 22'56\) 22° \$\Omega 04'11\) 27° \$\Omega 02'59\) 26° \$\Omega 29'19\) 23° \$\Omega 14'08\) 22° \$\Omega 19'53\)	0°28'42 0°28'17 23°05'04 0.55316 AU -5°32'51	superior conj minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set	9010 Jul 24 06:44 9010 Jul 28 13:55 9010 Jul 28 13:53 9010 Jul 28 08:12 9010 Jul 28 19:35 9010 Jul 28 12:39 9010 Aug 04 22:38 9010 Aug 05 21:27 9010 Aug 24 04:54 9010 Aug 24 21:34 9010 Aug 31 22:51 9010 Sep 06 03:15	3° £37'33 12° £27'09 12° £27'02 11° £57'19 12° £56'48 12° £20'32 28° £00'46 0° \$\mathbf{m}\) 0° \$\mathbf{n}\) 0° \$\mathbf{n}\) 5° \$\mathbf{n}\) 42'10 5° \$\mathbf{n}\) 46' \$\mathbf{n}\)	0°00'32 0°00'19 21°29'03
asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	9009 Aug 10 15:41 9009 Aug 13 12:48 9009 Aug 13 11:29 9009 Aug 14 06:47 9009 Aug 20 12:22 9009 Aug 28 18:52 9009 Sep 12 05:13 9009 Sep 14 01:42 9009 Sep 25 13:38 9009 Sep 29 11:49 9009 Oct 06 14:13 9009 Oct 08 03:40 9009 Oct 07 23:55	22° \$\Omega 14'24\) 28° \$\Omega 22'57\) 28° \$\Omega 15'48\) 0° \$\Omega 28'40\) 0° \$\Omega 22'56\) 22° \$\Omega 22'59\) 26° \$\Omega 29'19\) 23° \$\Omega 14'08\) 22° \$\Omega 25'19\) 18° \$\Omega 29'51\]	0°28'42 0°28'17 23°05'04 0.55316 AU -5°32'51	superior conj minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set inferior conj	9010 Jul 24 06:44 9010 Jul 28 13:55 9010 Jul 28 13:53 9010 Jul 28 08:12 9010 Jul 28 19:35 9010 Jul 28 12:39 9010 Aug 04 22:38 9010 Aug 05 21:27 9010 Aug 24 04:54 9010 Aug 24 21:34 9010 Aug 31 22:51 9010 Sep 06 03:15 9010 Sep 08 17:09 9010 Sep 17 21:23	3° £37'33 12° £27'09 12° £27'02 11° £57'19 12° £26'48 12° £20'32 28° £00'46 0° \$\mathbf{m}\) 0° \$\mathbf{n}\) 0° \$\mathbf{n}\) 40' \$\mathbf{n}\) 6° \$\mathbf{n}\) 6° \$\mathbf{n}\) 2° \$\mathbf{n}\) 3' \$\mathbf{n}\) 41'14 6° \$\mathbf{n}\) 6° \$\mathbf{n}\) 3' \$\mathbf{n}\) 2° \$\mathbf{n}\) 3' \$\mathbf{n}\)	0°00'32 0°00'19 21°29'03 -4°38'41
asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	9009 Aug 10 15:41 9009 Aug 13 12:48 9009 Aug 13 11:29 9009 Aug 14 06:47 9009 Aug 20 12:22 9009 Aug 28 18:52 9009 Sep 12 05:13 9009 Sep 14 01:42 9009 Sep 25 13:38 9009 Sep 29 11:49 9009 Oct 06 14:13 9009 Oct 08 03:40 9009 Oct 07 23:55 9009 Oct 16 14:02 9009 Oct 19 14:26	22° \$\Omega 14'24\) 28° \$\Omega 22'57\) 28° \$\Omega 15'48\) 0° \$\Omega 28'40\) 0° \$\Omega 22'56\) 22° \$\Omega 22'56\) 22° \$\Omega 22'59\) 26° \$\Omega 29'19\) 23° \$\Omega 14'08\) 22° \$\Omega 19'53\) 22° \$\Omega 25'19\)	0°28'42 0°28'17 23°05'04 0.55316 AU -5°32'51 5°32'28	superior conj minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong	9010 Jul 24 06:44 9010 Jul 28 13:55 9010 Jul 28 13:53 9010 Jul 28 08:12 9010 Jul 28 19:35 9010 Jul 28 12:39 9010 Aug 04 22:38 9010 Aug 05 21:27 9010 Aug 24 04:54 9010 Aug 31 22:51 9010 Sep 06 03:15 9010 Sep 08 17:09 9010 Sep 17 21:23 9010 Sep 17 12:01	3° £37'33 12° £27'09 12° £27'02 11° £57'19 12° £56'48 12° £20'32 28° £00'46 0° \$\mathbf{m}\) 0° \$\mathbf{n}\) 0° \$\mathbf{n}\) 40' \$\mathbf{n}\) 6° \$\mathbf{n}\) 41'14 6° \$\mathbf{n}\) 46' \$\mathbf{n}\) 2° \$\mathbf{n}\) 33'48 2° \$\mathbf{n}\) 66' \$\mathbf{n}\) 2° \$\mathbf{n}\)	0°00'32 0°00'19 21°29'03 -4°38'41 4°36'27
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asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	9009 Aug 10 15:41 9009 Aug 13 12:48 9009 Aug 13 11:29 9009 Aug 14 06:47 9009 Aug 20 12:22 9009 Aug 28 18:52 9009 Sep 12 05:13 9009 Sep 14 01:42 9009 Sep 25 13:38 9009 Sep 29 11:49 9009 Oct 06 14:13 9009 Oct 07 23:55 9009 Oct 16 14:02 9009 Oct 19 14:26 9009 Oct 30 14:52 9009 Nov 05 08:11	22° \$\Omega 14'24\) 28° \$\Omega 22'57\) 28° \$\Omega 15'48\) 0° \$\mathbf{m}\$ 13° \$\mathbf{m} 28'40\) 0° \$\Omega 22'56\) 22° \$\Omega 24'11\) 27° \$\Omega 02'59\) 26° \$\Omega 29'19\) 23° \$\Omega 14'08\) 22° \$\Omega 25'19\) 18° \$\Omega 29'51\) 18° \$\Omega 08'20\) 23° \$\Omega 18'38\) 0° \$\mathbf{m}\$.	0°28'42 0°28'17 23°05'04 0.55316 AU -5°32'51 5°32'28	superior conj 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.	9010 Jul 24 06:44 9010 Jul 28 13:55 9010 Jul 28 13:53 9010 Jul 28 08:12 9010 Jul 28 19:35 9010 Jul 28 12:39 9010 Aug 04 22:38 9010 Aug 05 21:27 9010 Aug 24 04:54 9010 Aug 31 22:51 9010 Sep 06 03:15 9010 Sep 08 17:09 9010 Sep 17 21:23 9010 Sep 17 12:01 9010 Sep 17 22:33 9010 Sep 22 18:46	3° £37'33 12° £27'09 12° £27'02 11° £57'19 12° £56'48 12° £20'32 28° £00'46 0° \$\mathbf{n}\) 0° \$\mathbf{n}\) 0° \$\mathbf{n}\) 0° \$\mathbf{n}\) 6° \$\mathbf{n}\) 2° \$\mathbf{n}\) 2° \$\mathbf{n}\) 33'48 2° \$\mathbf{n}\) 46'55 2° \$\mathbf{n}\) 30° \$\mathbf{n}\)	0°00'32 0°00'19 21°29'03 -4°38'41 4°36'27
asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	9009 Aug 10 15:41 9009 Aug 13 12:48 9009 Aug 13 11:29 9009 Aug 14 06:47 9009 Aug 20 12:22 9009 Aug 28 18:52 9009 Sep 12 05:13 9009 Sep 14 01:42 9009 Sep 25 13:38 9009 Sep 29 11:49 9009 Oct 06 14:13 9009 Oct 07 23:55 9009 Oct 16 14:02 9009 Oct 19 14:26 9009 Oct 30 14:52 9009 Nov 05 08:11 9009 Nov 06 15:33	22° \$\Omega 14'24\) 28° \$\Omega 22'57\) 28° \$\Omega 15'48\) 0° \$\mathbf{m}\$ 13° \$\mathbf{m} 28'40\) 0° \$\Omega 22'56\) 22° \$\Omega 22'59\) 26° \$\Omega 29'19\) 23° \$\Omega 14'08\) 22° \$\Omega 25'19\) 18° \$\Omega 29'51\) 18° \$\Omega 29'51\) 18° \$\Omega 29'57\) 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 1° \$\mathbf{m}\$ 52'57	0°28'42 0°28'17 23°05'04 0.55316 AU -5°32'51 5°32'28	superior conj 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.	9010 Jul 24 06:44 9010 Jul 28 13:55 9010 Jul 28 13:53 9010 Jul 28 08:12 9010 Jul 28 19:35 9010 Jul 28 12:39 9010 Aug 04 22:38 9010 Aug 05 21:27 9010 Aug 24 04:54 9010 Aug 31 22:51 9010 Sep 06 03:15 9010 Sep 08 17:09 9010 Sep 17 21:23 9010 Sep 17 12:01 9010 Sep 22 18:46 9010 Sep 26 07:46	3° £37'33 12° £27'09 12° £27'02 11° £57'19 12° £56'48 12° £20'32 28° £000'46 0° \$\mathbf{m}\) 0° \$\mathbf{n}\) 0° \$\mathbf{n}\) 0° \$\mathbf{n}\) 46° \$\mathbf{n}\) 2° \$\mathbf{n}\) 33'48 2° \$\mathbf{n}\) 2° \$\mathbf{n}\) 30° \$\mathbf{m}\) 28° \$\mathbf{m}\) 28° \$\mathbf{m}\) 43'10	0°00'32 0°00'19 21°29'03 -4°38'41 4°36'27
asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	9009 Aug 10 15:41 9009 Aug 13 12:48 9009 Aug 13 11:29 9009 Aug 14 06:47 9009 Aug 20 12:22 9009 Aug 28 18:52 9009 Sep 12 05:13 9009 Sep 14 01:42 9009 Sep 25 13:38 9009 Sep 29 11:49 9009 Oct 06 14:13 9009 Oct 08 03:40 9009 Oct 07 23:55 9009 Oct 16 14:02 9009 Oct 19 14:26 9009 Oct 30 14:52 9009 Nov 05 08:11 9009 Nov 06 15:33 9009 Nov 18 16:35	22° \$\Omega 14'24\) 28° \$\Omega 22'57\) 28° \$\Omega 15'48\) 0° \$\mathbf{m}\$ 13° \$\mathbf{m} 28'40\) 0° \$\Omega 22'56\) 22° \$\Omega 22'56\) 22° \$\Omega 29'19\) 23° \$\Omega 14'08\) 22° \$\Omega 25'19\) 18° \$\Omega 29'51\) 18° \$\Omega 29'51\) 18° \$\Omega 29'52\) 23° \$\Omega 18'38\) 0° \$\mathbf{m}\$ 1° \$\mathbf{m} .52'57\) 23° \$\mathbf{m} .57'56	0°28'42 0°28'17 23°05'04 0.55316 AU -5°32'51 5°32'28	superior conj 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.	9010 Jul 24 06:44 9010 Jul 28 13:55 9010 Jul 28 13:53 9010 Jul 28 08:12 9010 Jul 28 19:35 9010 Jul 28 12:39 9010 Aug 04 22:38 9010 Aug 05 21:27 9010 Aug 24 04:54 9010 Aug 24 21:34 9010 Aug 31 22:51 9010 Sep 06 03:15 9010 Sep 08 17:09 9010 Sep 17 21:23 9010 Sep 17 22:33 9010 Sep 22 18:46 9010 Sep 29 23:45	3° £37'33 12° £27'09 12° £27'02 11° £57'19 12° £56'48 12° £20'32 28° £000'46 0° ₱ 0° £2'10 5° £41'14 6° £46'19 6° £31'08 2° £33'48 2° £46'55 2° £32'11 30° ₹ ₱ 28° ₱ £43'10 28° ₱ £4'01	0°00'32 0°00'19 21°29'03 -4°38'41 4°36'27
asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	9009 Aug 10 15:41 9009 Aug 13 12:48 9009 Aug 13 11:29 9009 Aug 14 06:47 9009 Aug 20 12:22 9009 Aug 28 18:52 9009 Sep 12 05:13 9009 Sep 14 01:42 9009 Sep 25 13:38 9009 Sep 29 11:49 9009 Oct 06 14:13 9009 Oct 07 23:55 9009 Oct 16 14:02 9009 Oct 19 14:26 9009 Oct 30 14:52 9009 Nov 05 08:11 9009 Nov 06 15:33	22° \$\Omega 14'24\) 28° \$\Omega 22'57\) 28° \$\Omega 15'48\) 0° \$\mathbf{m}\$ 13° \$\mathbf{m} 28'40\) 0° \$\Omega 22'56\) 22° \$\Omega 22'59\) 26° \$\Omega 29'19\) 23° \$\Omega 14'08\) 22° \$\Omega 25'19\) 18° \$\Omega 29'51\) 18° \$\Omega 29'51\) 18° \$\Omega 29'57\) 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 1° \$\mathbf{m}\$ 52'57	0°28'42 0°28'17 23°05'04 0.55316 AU -5°32'51 5°32'28	superior conj 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	9010 Jul 24 06:44 9010 Jul 28 13:55 9010 Jul 28 13:53 9010 Jul 28 08:12 9010 Jul 28 19:35 9010 Jul 28 12:39 9010 Aug 04 22:38 9010 Aug 05 21:27 9010 Aug 24 04:54 9010 Aug 24 21:34 9010 Aug 31 22:51 9010 Sep 06 03:15 9010 Sep 08 17:09 9010 Sep 17 21:23 9010 Sep 17 22:33 9010 Sep 22 18:46 9010 Sep 29 23:45 9010 Oct 06 18:46	3° £37'33 12° £27'09 12° £27'02 11° £57'19 12° £56'48 12° £20'32 28° £00'46 0° \$\mathbf{m}\) 0° \$\mathbf{n}\) 0° \$\mathbf{n}\) 42'10 5° \$\mathbf{n}\) 42'10 5° \$\mathbf{n}\) 2° \$\mathbf{n}\) 2° \$\mathbf{n}\) 30' \$\mathbf{n}\) 28° \$\mathbf{m}\) 43'10 28° \$\mathbf{m}\) 43'10 28° \$\mathbf{m}\) 14'01 0° \$\mathbf{n}\)	0°00'32 0°00'19 21°29'03 -4°38'41 4°36'27 0.54675 AU
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asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	9009 Aug 10 15:41 9009 Aug 13 12:48 9009 Aug 13 11:29 9009 Aug 14 06:47 9009 Aug 20 12:22 9009 Aug 28 18:52 9009 Sep 12 05:13 9009 Sep 14 01:42 9009 Sep 25 13:38 9009 Sep 29 11:49 9009 Oct 06 14:13 9009 Oct 07 23:55 9009 Oct 16 14:02 9009 Oct 19 14:26 9009 Oct 30 14:52 9009 Nov 05 08:11 9009 Nov 06 15:33 9009 Nov 18 16:35 9009 Nov 26 03:33 9009 Nov 26 03:33 9009 Nov 26 05:23 9009 Dec 01 05:19 9009 Dec 06 19:22 9009 Dec 11 00:23	22° \$\Pi 14'24\) 28° \$\Pi 22'57\) 28° \$\Pi 15'48\) 0° \$\mathbf{m}\) 13° \$\mathbf{m} 28'40\) 0° \$\Pi \) 20° \$\Pi 22'56\) 22° \$\Pi 04'11\) 27° \$\Pi 02'59\) 26° \$\Pi 29'19\) 23° \$\Pi 14'08\) 22° \$\Pi 19'53\) 22° \$\Pi 25'19\) 18° \$\Pi 29'51\) 18° \$\Pi 29'57\) 23° \$\mathbf{m} 18'38\) 0° \$\mathbf{m}\) 1° \$\mathbf{m} 52'57\) 23° \$\mathbf{m} 57'56\) 0° \$m'\) 9° \$m 24'25\) 9° \$m 33'44\) 19° \$m 31'23\) 26° \$m 58'28\) 0° \$m 57'524'59\)	0°28'42 0°28'17 23°05'04 0.55316 AU -5°32'51 5°32'28 20°40'43	superior conj 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	9010 Jul 24 06:44 9010 Jul 28 13:55 9010 Jul 28 08:12 9010 Jul 28 19:35 9010 Jul 28 19:35 9010 Jul 28 12:39 9010 Aug 04 22:38 9010 Aug 05 21:27 9010 Aug 24 04:54 9010 Aug 31 22:51 9010 Sep 06 03:15 9010 Sep 08 17:09 9010 Sep 17 21:23 9010 Sep 17 12:01 9010 Sep 17 22:33 9010 Sep 22 18:46 9010 Sep 29 23:45 9010 Oct 06 18:46 9010 Oct 12 11:48 9010 Oct 24 12:32 9010 Nov 10 05:06 9010 Nov 10 05:06	3° \(\Omega 37'33\) 12° \(\Omega 27'09\) 12° \(\Omega 27'02\) 11° \(\Omega 57'19\) 12° \(\Omega 56'48\) 12° \(\Omega 20'32\) 28° \(\Omega 00'46\) 0° \(\Omega 40'10\) 5° \(\Omega 41'14\) 6° \(\Omega 46'19\) 6° \(\Omega 31'08\) 2° \(\Omega 33'48\) 2° \(\Omega 46'55\) 2° \(\Omega 32'11\) 30° \(\Omega M\) 28° \(\Omega 43'10\) 28° \(\Omega 43'10\) 28° \(\Omega 10'36\) 0° \(\Omega M\) 8° \(\Omega 45'47\) 23° \(\Omega 51'30\) 23° \(\Omega 54'21\)	0°00'32 0°00'19 21°29'03 -4°38'41 4°36'27 0.54675 AU 22°16'24
asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	9009 Aug 10 15:41 9009 Aug 13 12:48 9009 Aug 13 11:29 9009 Aug 14 06:47 9009 Aug 20 12:22 9009 Aug 28 18:52 9009 Sep 12 05:13 9009 Sep 14 01:42 9009 Sep 25 13:38 9009 Sep 29 11:49 9009 Oct 06 14:13 9009 Oct 08 03:40 9009 Oct 16 14:02 9009 Oct 19 14:26 9009 Oct 30 14:52 9009 Nov 05 08:11 9009 Nov 06 15:33 9009 Nov 18 16:35 9009 Nov 26 03:33 9009 Nov 26 03:33 9009 Nov 26 03:33 9009 Dec 01 05:19 9009 Dec 05 03:40 9009 Dec 06 19:22 9009 Dec 11 00:23 9009 Dec 25 11:32	22° € 14'24 28° € 22'57 28° € 15'48 0° m 13° m 28'40 0° £ 20° £ 22'56 22° £ 04'11 27° £ 02'59 26° £ 29'19 23° £ 14'08 22° £ 19'53 22° £ 25'19 18° £ 29'51 18° £ 29'51 18° £ 29'57 23° M 57'56 0° ₹ 9° ₹ 24'25 9° ₹ 33'44 19° ₹ 31'23 26° ₹ 58'28 0° ₹ 7° ₹ 24'59 0° ≈	0°28'42 0°28'17 23°05'04 0.55316 AU -5°32'51 5°32'28 20°40'43 1°34'01 1°34'08 1.36009 AU	superior conj 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	9010 Jul 24 06:44 9010 Jul 28 13:55 9010 Jul 28 08:12 9010 Jul 28 19:35 9010 Jul 28 19:35 9010 Jul 28 12:39 9010 Aug 04 22:38 9010 Aug 05 21:27 9010 Aug 24 04:54 9010 Aug 24 21:34 9010 Sep 06 03:15 9010 Sep 07 21:23 9010 Sep 17 21:23 9010 Sep 17 22:33 9010 Sep 17 22:33 9010 Sep 22 18:46 9010 Sep 29 23:45 9010 Oct 06 18:46 9010 Oct 12 11:48 9010 Oct 24 12:32 9010 Nov 10 05:06 9010 Nov 10 05:06 9010 Nov 10 05:39 9010 Nov 13 03:33	3° \(\Omega 37'33\) 12° \(\Omega 27'09\) 12° \(\Omega 27'02\) 11° \(\Omega 57'19\) 12° \(\Omega 56'48\) 12° \(\Omega 20'32\) 28° \(\Omega 00'46\) 0° \(\Omega 40'10\) 5° \(\Omega 41'14\) 6° \(\Omega 46'19\) 6° \(\Omega 31'08\) 2° \(\Omega 33'48\) 2° \(\Omega 46'55\) 2° \(\Omega 32'11\) 30° \(\Omega M\) 28° \(\Omega 43'10\) 28° \(\Omega 43'10\) 28° \(\Omega 14'01\) 0° \(\Omega 40'00\) 20° \(\Omega 10'36\) 0° \(\Omega 45'47\) 23° \(\Omega 51'30\) 23° \(\Omega 54'21\) 0° \(\nabla 7\)	0°00'32 0°00'19 21°29'03 -4°38'41 4°36'27 0.54675 AU 22°16'24
asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	9009 Aug 10 15:41 9009 Aug 13 12:48 9009 Aug 13 11:29 9009 Aug 14 06:47 9009 Aug 20 12:22 9009 Aug 28 18:52 9009 Sep 12 05:13 9009 Sep 14 01:42 9009 Sep 25 13:38 9009 Sep 29 11:49 9009 Oct 06 14:13 9009 Oct 07 23:55 9009 Oct 16 14:02 9009 Oct 19 14:26 9009 Oct 30 14:52 9009 Nov 05 08:11 9009 Nov 06 15:33 9009 Nov 18 16:35 9009 Nov 26 03:33 9009 Nov 26 03:33 9009 Nov 26 05:23 9009 Dec 01 05:19 9009 Dec 05 03:40 9009 Dec 06 19:22 9009 Dec 25 11:32 9010 Jan 09 16:17	22° € 14'24 28° € 22'57 28° € 15'48 0° m 13° m 28'40 0° £ 20° £ 22'56 22° £ 04'11 27° £ 02'59 26° £ 29'19 23° £ 14'08 22° £ 19'53 22° £ 25'19 18° £ 29'51 18° £ 29'51 23° £ 18'38 0° m 1° m 52'57 23° m 57'56 0° ₹' 9° ₹ 24'25 9° ₹ 33'44 19° ₹ 31'23 26° ₹ 58'28 0° ₹ 7° ₹ 24'59 0° ≈ 18° ≈ 30'19	0°28'42 0°28'17 23°05'04 0.55316 AU -5°32'51 5°32'28 20°40'43	superior conj 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	9010 Jul 24 06:44 9010 Jul 28 13:55 9010 Jul 28 08:12 9010 Jul 28 19:35 9010 Jul 28 19:35 9010 Jul 28 12:39 9010 Aug 04 22:38 9010 Aug 05 21:27 9010 Aug 24 04:54 9010 Aug 24 21:34 9010 Sep 06 03:15 9010 Sep 07 21:23 9010 Sep 17 21:23 9010 Sep 17 22:33 9010 Sep 17 22:33 9010 Sep 22 18:46 9010 Sep 29 23:45 9010 Oct 06 18:46 9010 Oct 12 11:48 9010 Oct 24 12:32 9010 Nov 10 05:06 9010 Nov 10 05:06 9010 Nov 10 05:39 9010 Nov 13 03:33 9010 Nov 13 20:02	3° \(\Omega 37'33\) 12° \(\Omega 27'09\) 12° \(\Omega 27'02\) 11° \(\Omega 57'19\) 12° \(\Omega 56'48\) 12° \(\Omega 20'32\) 28° \(\Omega 00'46\) 0° \(\Omega 40'10\) 5° \(\Omega 41'14\) 6° \(\Omega 46'19\) 6° \(\Omega 33'48\) 2° \(\Omega 46'55\) 2° \(\Omega 33'48\) 2° \(\Omega 46'55\) 2° \(\Omega 33'11\) 30° \(\Omega 10'36\) 0° \(\Omega 10'36\) 1° \(\Sigma 24'51\)	0°00'32 0°00'19 21°29'03 -4°38'41 4°36'27 0.54675 AU 22°16'24
asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	9009 Aug 10 15:41 9009 Aug 13 12:48 9009 Aug 13 11:29 9009 Aug 14 06:47 9009 Aug 20 12:22 9009 Aug 28 18:52 9009 Sep 12 05:13 9009 Sep 14 01:42 9009 Sep 25 13:38 9009 Sep 29 11:49 9009 Oct 06 14:13 9009 Oct 07 23:55 9009 Oct 16 14:02 9009 Oct 19 14:26 9009 Oct 30 14:52 9009 Nov 05 08:11 9009 Nov 06 15:33 9009 Nov 18 16:35 9009 Nov 26 03:33 9009 Nov 26 03:33 9009 Nov 26 03:33 9009 Nov 26 05:23 9009 Dec 01 05:19 9009 Dec 05 03:40 9009 Dec 06 19:22 9009 Dec 11 00:23 9009 Dec 25 11:32 9010 Jan 09 16:17 9010 Jan 22 09:42	22° \$\alpha 14'24\) 28° \$\alpha 22'57\) 28° \$\alpha 15'48\) 0° \$\mathbf{m}\$ 13° \$\mathbf{m} 28'40\) 0° \$\alpha \) 20° \$\alpha 22'56\) 22° \$\alpha 04'11\) 27° \$\alpha 02'59\) 26° \$\alpha 29'19\) 23° \$\alpha 14'08\) 22° \$\alpha 29'51\) 18° \$\alpha 29'51\) 18° \$\alpha 29'51\) 18° \$\alpha 29'51\) 23° \$\alpha 18'38\) 0° \$\mathbf{m}\$ 1° \$\mathbf{m} 52'57\) 23° \$\mathbf{m} 57'56\) 0° \$m\$ 9° \$n 24'25\) 9° \$n 33'44\) 19° \$n 31'23\) 26° \$n 58'28\) 0° \$n\$ 7° \$n 24'59\) 0° \$\alpha\$ 18° \$\alpha 30'19\) 25° \$\alpha 43'38\]	0°28'42 0°28'17 23°05'04 0.55316 AU -5°32'51 5°32'28 20°40'43 1°34'01 1°34'08 1.36009 AU	superior conj 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	9010 Jul 24 06:44 9010 Jul 28 13:55 9010 Jul 28 08:12 9010 Jul 28 19:35 9010 Jul 28 19:35 9010 Jul 28 12:39 9010 Aug 04 22:38 9010 Aug 05 21:27 9010 Aug 24 04:54 9010 Aug 24 21:34 9010 Sep 06 03:15 9010 Sep 07 21:23 9010 Sep 17 21:23 9010 Sep 17 12:01 9010 Sep 17 22:33 9010 Sep 17 22:33 9010 Sep 22 18:46 9010 Sep 29 23:45 9010 Oct 06 18:46 9010 Oct 12 11:48 9010 Oct 24 12:32 9010 Oct 29 20:14 9010 Nov 10 05:06 9010 Nov 10 05:06 9010 Nov 10 05:39 9010 Nov 13 03:33 9010 Nov 13 20:02 9010 Nov 18 07:43	3° \(\alpha 37'33\) 12° \(\alpha 27'09\) 12° \(\alpha 27'02\) 11° \(\alpha 57'19\) 12° \(\alpha 56'48\) 12° \(\alpha 20'32\) 28° \(\alpha 00'46\) 0° \(\mathbf{m}\) 0° \(\mathbf{m}\) 0° \(\mathbf{m}\) 4° \(\mathbf{m} 46'19\) 6° \(\mathbf{m} 31'08\) 2° \(\mathbf{m} 33'48\) 2° \(\mathbf{m} 34'55\) 2° \(\mathbf{m} 33'48\) 2° \(\mathbf{m} 46'55\) 2° \(\mathbf{m} 33'11\) 28° \(\mathbf{m} 14'01\) 0° \(\mathbf{m}\) 4° \(\mathbf{m} 10'00\) 20° \(\mathbf{m} 10'36\) 0° \(\mathbf{m}\) 8° \(\mathbf{m} 45'47\) 23° \(\mathbf{m} 51'30\) 23° \(\mathbf{m} 54'21\) 0° \(\mathbf{m}\) 1° \(\mathbf{m} 22'16\)	0°00'32 0°00'19 21°29'03 -4°38'41 4°36'27 0.54675 AU 22°16'24
asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	9009 Aug 10 15:41 9009 Aug 13 12:48 9009 Aug 13 11:29 9009 Aug 14 06:47 9009 Aug 20 12:22 9009 Aug 28 18:52 9009 Sep 12 05:13 9009 Sep 14 01:42 9009 Sep 25 13:38 9009 Sep 29 11:49 9009 Oct 06 14:13 9009 Oct 07 23:55 9009 Oct 16 14:02 9009 Oct 19 14:26 9009 Oct 30 14:52 9009 Nov 05 08:11 9009 Nov 06 15:33 9009 Nov 18 16:35 9009 Nov 26 03:33 9009 Nov 26 03:33 9009 Nov 26 05:23 9009 Dec 01 05:19 9009 Dec 05 03:40 9009 Dec 06 19:22 9009 Dec 25 11:32 9010 Jan 09 16:17	22° \$\Pi 14'24\) 28° \$\Pi 22'57\) 28° \$\Pi 15'48\) 0° \$\mathbf{m}\) 13° \$\mathbf{m} 28'40\) 0° \$\mathbf{n}\) 20° \$\mathbf{n} 22'56\) 22° \$\mathbf{n} 04'11\) 27° \$\mathbf{n} 02'59\) 26° \$\mathbf{n} 29'19\) 23° \$\mathbf{n} 14'08\) 22° \$\mathbf{n} 29'51\) 18° \$\mathbf{n} 29'51\) 18° \$\mathbf{n} 08'20\) 23° \$\mathbf{n} 18'38\) 0° \$\mathbf{m}\) 1° \$\mathbf{m} 52'57\) 23° \$\mathbf{m} 57'56\) 0° \$\mathbf{n}\] 9° \$\mathbf{n} 24'25\) 9° \$\mathbf{n} 33'44\) 19° \$\mathbf{n} 31'23\) 26° \$\mathbf{n} 58'28\) 0° \$\mathbf{n}\] 7° \$\mathbf{n} 24'59\) 0° \$\mathbf{n}\] 18° \$\mathbf{n} 30'19\) 25° \$\mathbf{n} 43'38\) 23° \$\mathbf{n} 12'24\)	0°28'42 0°28'17 23°05'04 0.55316 AU -5°32'51 5°32'28 20°40'43 1°34'01 1°34'08 1.36009 AU	superior conj 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	9010 Jul 24 06:44 9010 Jul 28 13:55 9010 Jul 28 08:12 9010 Jul 28 19:35 9010 Jul 28 19:35 9010 Jul 28 12:39 9010 Aug 04 22:38 9010 Aug 05 21:27 9010 Aug 24 04:54 9010 Aug 24 21:34 9010 Sep 06 03:15 9010 Sep 07 21:23 9010 Sep 17 21:23 9010 Sep 17 22:33 9010 Sep 17 22:33 9010 Sep 22 18:46 9010 Sep 29 23:45 9010 Oct 06 18:46 9010 Oct 12 11:48 9010 Oct 24 12:32 9010 Nov 10 05:06 9010 Nov 10 05:06 9010 Nov 10 05:39 9010 Nov 13 03:33 9010 Nov 13 20:02	3° \(\Omega 37'33\) 12° \(\Omega 27'09\) 12° \(\Omega 27'02\) 11° \(\Omega 57'19\) 12° \(\Omega 56'48\) 12° \(\Omega 20'32\) 28° \(\Omega 00'46\) 0° \(\Omega 40'10\) 5° \(\Omega 41'14\) 6° \(\Omega 46'19\) 6° \(\Omega 33'48\) 2° \(\Omega 46'55\) 2° \(\Omega 33'48\) 2° \(\Omega 46'55\) 2° \(\Omega 33'11\) 30° \(\Omega 10'36\) 0° \(\Omega 10'36\) 1° \(\Sigma 24'51\)	0°00'32 0°00'19 21°29'03 -4°38'41 4°36'27 0.54675 AU 22°16'24

	9010 Dec 21 02:12	0° ≈			9011 Nov 22 19:47	8°0	
evening max el	9010 Dec 21 02:12 9010 Dec 23 05:42	2°≈09'18	27°01'13	evening max el	9011 Dec 05 18:05	0 3 15° る 28'58	27°27'31
retrograde	9011 Jan 05 12:55	9°≈29'46	27 01 15	retrograde	9011 Dec 19 09:32	22° ප් 48'26	27 27 31
evening set	9011 Jan 12 04:42	6°≈54'33		evening set	9011 Dec 26 09:08	20° ප 16'11	
min. Earth dist.	9011 Jan 16 03:57	3°≈03'15	0.65508 AU	min. Earth dist.	9011 Dec 30 03:46	16° ප 57'01	0.63863 AU
inferior conj	9011 Jan 18 06:18	0°≈40'01		inferior conj	9012 Jan 01 17:29	14°る18'12	
minimum elong	9011 Jan 18 07:36	0°≈36'18		minimum elong	9012 Jan 01 17:29	14°る09'05	1°50'39
minimum clong	9011 Jan 18 20:25	30°Ŗ ට	0 4401	asc. node	9012 Jan 07 08:59	9° る 28'45	1 3037
asc. node	9011 Jan 20 11:53	28°る13'12		morning rise	9012 Jan 08 10:43	8° 궁 58'00	
morning rise	9011 Jan 24 11:45	25° පි 04'54		direct	9012 Jan 10 21:11	8° පි 28'34	
direct	9011 Jan 27 05:28	24°る24'18		morning max el	9012 Jan 17 09:05	11°る50'50	17°49'25
morning max el	9011 Feb 02 15:42	27° る 48'46	18°06'25	morning max or	9012 Jan 29 20:06	0° ≈	17 19 23
morning max er	9011 Feb 02 15:42 9011 Feb 04 15:49	0°≈	10 00 23	morning set	9012 Feb 03 00:33	7°≈08'07	
morning set	9011 Feb 21 02:18	0 ~ 25° ≈ 03'33		desc. node	9012 Feb 10 17:54	20°≈11'54	
desc. node	9011 Feb 23 21:01	29°≈35'00		dese. Hode	7012100 10 17.54	20 ~11 54	
desc. node	9011 Feb 24 03:10	0° ∀		superior conj	9012 Feb 15 20:24	28° ≈ 36'03	-0°36'49
	70111C0 24 03.10	0 /		minimum elong	9012 Feb 15 16:21	28°≈19'33	0°36'05
superior coni	9011 Mar 07 21:13	18°)(47'41	1020/12	minimum clong	9012 Feb 16 17:06	20 ≈ 1933	0 30 03
superior conj		18° X 12'59		may Earth dist		0 X 7° ¥ 31'34	1.44730 AU
minimum elong	9011 Mar 07 12:25			max. Earth dist.	9012 Feb 21 09:45		1.44/30 AU
max. Earth dist.	9011 Mar 10 14:30	23°) €04'13 0° °	1.45470 AU	evening rise	9012 Mar 02 12:52	23° ¥ 19'12 0° Ƴ	
	9011 Mar 15 00:55				9012 Mar 06 21:58		
evening rise	9011 Mar 24 00:56	13° Y 58'39			9012 Mar 28 01:12	0°8	20020112
	9011 Apr 03 10:39	0° 8	^ =	evening max el	9012 Mar 30 17:26	2° 8 57'19	20°28'43
greatest brilliancy	9011 Apr 05 19:15	3° 8 33'31	-0.7m	asc. node	9012 Apr 04 07:42	6° 8 38'58	
evening max el	9011 Apr 17 15:10	19° 8 17'06	19°28'42	retrograde	9012 Apr 07 18:12	7° 8 38'13	
asc. node	9011 Apr 18 10:32	20° 8 04'19		evening set	9012 Apr 11 18:02	6° 8 06'35	
retrograde	9011 Apr 24 19:35	23° 8 21'56		inferior conj	9012 Apr 17 01:28	29° Y 59'49	3°09'15
evening set	9011 Apr 28 10:18	22° 8 05'43		minimum elong	9012 Apr 17 00:01	0° 8 04'47	3°08'55
inferior conj	9011 May 03 20:08	16° 8 12'13	3°20'28		9012 Apr 17 01:25	30° ₹Ƴ	
minimum elong	9011 May 03 19:38	16° 8 13'51	3°20'16	min. Earth dist.	9012 Apr 17 17:39	29° Y 04'23	0.67894 AU
min. Earth dist.	9011 May 05 02:27	14° 8 32'32	0.66935 AU	morning rise	9012 Apr 22 05:48	23° Y 43'22	
morning rise	9011 May 09 04:37	9° 8 53'34		direct	9012 Apr 27 19:45	21° Y 14'24	
direct	9011 May 15 07:08	7° 8 11'27		desc. node	9012 May 08 17:58	27° Y 39'14	
desc. node	9011 May 22 21:02	10° 8 19'48		morning max el	9012 May 09 01:12	27° Ƴ 57′23	24°17'21
morning max el	9011 May 27 15:55	14° 8 35'33	25°42'56		9012 May 10 23:39	0°8	
	9011 Jun 09 05:44	Π $^{\circ}0$			9012 Jun 01 22:22	Π °0	
	9011 Jun 28 09:51	0∘ ௐ		morning set	9012 Jun 13 17:56	19° Ⅲ 24'41	
morning set	9011 Jul 02 18:28	7° © 46'34		max. Earth dist.	9012 Jun 17 10:00	25° Ⅱ 53'44	1.37901 AU
max. Earth dist.	9011 Jul 06 12:02	14° 5 644'13	1.35775 AU		9012 Jun 19 16:11	0 \circ 60	
	0011 7 1 10 06 10	260000000	0000106		0010 1 01 11 50	0000000	1000150
superior conj	9011 Jul 12 06:42	26° © 03'19		superior conj	9012 Jun 24 11:53	9° © 03'30	
minimum elong	9011 Jul 12 08:32	26°5512'34	0°30'29	minimum elong	9012 Jun 24 15:52	9° © 22'38	1°02'32
	9011 Jul 14 05:28	0 \circ Ω		asc. node	9012 Jul 01 06:38	22° © 20'46	
asc. node	9011 Jul 15 09:37	2° Ω 23'51		evening rise	9012 Jul 03 06:24	26° © 17'35	
evening rise	9011 Jul 20 05:28	12° Ω 19'14			9012 Jul 05 03:35	0 $^{\circ}\Omega$	
	9011 Jul 29 12:10	0° т р		evening max el	9012 Jul 19 19:30	23° Ω 14'50	19°07'05
evening max el	9011 Aug 07 01:58	11° m 35'53	20°07'57	retrograde	9012 Jul 28 18:08	27° Ω 40′50	
retrograde	9011 Aug 17 16:22	16° Mp 50'30		evening set	9012 Jul 30 15:29	27° Ω 29'45	
desc. node	9011 Aug 18 20:01	16° Mp 47'01		desc. node	9012 Aug 04 17:09	25° Ω 26′22	
evening set	9011 Aug 19 14:36	16° m 40'52		inferior conj	9012 Aug 08 01:40	23° Ω 16'59	
inferior conj	9011 Aug 28 16:11	12°Mp42'08		minimum elong	9012 Aug 07 22:58	23° Ω 21'34	
minimum elong	9011 Aug 28 08:13	12°M 53'58		min. Earth dist.	9012 Aug 10 21:56		0.56189 AU
min. Earth dist.	9011 Aug 30 08:27	11°Mp42'18	0.54982 AU	morning rise	9012 Aug 16 03:26	18° Ω 30'13	
morning rise	9011 Sep 06 00:39	8° m 30'51		direct	9012 Aug 21 09:06	17° Ω 26'31	
direct	9011 Sep 10 10:43	7° Mp 48'33		morning max el	9012 Sep 04 13:33	24° Ω 40'55	25°43'42
morning max el	9011 Sep 24 00:48	14° m 27'32	24°02'39		9012 Sep 09 11:29	0°Щ	
	9011 Oct 06 04:00	0∘ ⊽		asc. node	9012 Sep 27 06:24	28° m 25'15	
asc. node	9011 Oct 11 09:29	9° ഫ 04'29			9012 Sep 28 01:28	0∘ ত	
morning set	9011 Oct 18 14:47	23° ჲ 35′00		morning set	9012 Oct 02 02:06	8° ഫ 20'25	
	9011 Oct 21 14:12	0°M					
				superior conj	9012 Oct 08 22:42		
superior conj	9011 Oct 25 12:16	8°M32'50	1°39'56	minimum elong	9012 Oct 08 21:08	23° Ω 12'29	1°33'34
minimum elong	9011 Oct 25 11:37	8°M29'18	1°40'04	max. Earth dist.	9012 Oct 10 01:04	25° Ω 46'36	1.32033 AU
max. Earth dist.	9011 Oct 27 19:13	13°M29'26	1.32920 AU	_	9012 Oct 11 23:23	0°M	
evening rise	9011 Nov 01 23:26	24°M16'41		evening rise	9012 Oct 15 23:37	8°M32'47	
	9011 Nov 04 20:53	0° ∡			9012 Oct 27 06:15	0° ∡	
desc. node	9011 Nov 14 18:31	17° ∡ ⁴42'10		desc. node	9012 Oct 31 15:37	7° ҂ 12'36	

evening max el	9012 Nov 17 03:01	28° √ 14'54	27°23'26	evening rise	9013 Sep 30 05:43	23° ഫ 03'58	
Č	9012 Nov 19 01:54	8°0		C	9013 Oct 03 13:59	0°M	
retrograde	9012 Nov 30 22:54	5° る 29'31		desc. node	9013 Oct 18 12:45	26°M03'29	
evening set	9012 Dec 08 00:47	3° る 09'14			9013 Oct 21 08:16	0° ∡ ¹	
min. Earth dist.	9012 Dec 11 17:14	0°₹16'48	0.61938 AU	evening max el	9013 Oct 30 05:57	10° ∡ 15'44	26°45'30
	9012 Dec 12 00:48	30°R. ✓		retrograde	9013 Nov 13 04:02	17° ∡ ¹24'19	
inferior conj	9012 Dec 14 16:44	27° ∡ ³33'25	-3°03'50	evening set	9013 Nov 19 23:34	15° ∡ ¹26'45	
minimum elong	9012 Dec 14 22:40	27° ∡ 19'51	3°01'26	min. Earth dist.	9013 Nov 23 20:03	12° ≯ 50′02	0.59853 AU
morning rise	9012 Dec 21 22:50	22° ∡ ³31'31		inferior conj	9013 Nov 27 00:37	10° ≯ 16'51	-4°13'36
direct	9012 Dec 24 04:34	22° ҂ 09'39		minimum elong	9013 Nov 27 08:06	10° ∡ '01'51	4°11'14
asc. node	9012 Dec 24 06:03	22° ₹ 09'40		morning rise	9013 Dec 04 19:08	5° ∡ ³36′08	
morning max el	9012 Dec 31 01:44	25° ∡ ³39′03	17°50'18	direct	9013 Dec 06 23:31	5° ҂ 18′29	
	9013 Jan 03 17:39	8°0		asc. node	9013 Dec 11 03:02	6° ≯ 25'38	
morning set	9013 Jan 15 20:12	20° る 13'10		morning max el	9013 Dec 14 14:11	9° ₰ 04'08	18°10'16
	9013 Jan 21 07:43	0° ≈			9013 Dec 28 03:47	0°ಕ	
				morning set	9013 Dec 30 07:07	4° る 00'29	
superior conj	9013 Jan 26 20:33	9° ≈ 36'32	0°05'41			_	
minimum elong	9013 Jan 26 21:06	9° ≈ 38'52	0°05'49	superior conj	9014 Jan 08 20:55	21° る 45'44	0°41'30
behind sun begin	9013 Jan 26 12:59	9° ≈ 04'14		minimum elong	9014 Jan 08 23:48	21° る 58'44	0°41'19
behind sun end	9013 Jan 27 05:12	10° ≈ 13′25			9014 Jan 13 12:54	0° ≈	
desc. node	9013 Jan 27 14:49	10° ≈ 54'12		desc. node	9014 Jan 14 11:46	1° ≈ 38'31	
max. Earth dist.	9013 Feb 03 01:32	21° ≈ 36′29	1.43340 AU	max. Earth dist.	9014 Jan 16 12:06	5° ≈ 04'08	1.41465 AU
	9013 Feb 08 07:23	0° ∀		evening rise	9014 Jan 21 11:48	13°≈18'35	
evening rise	9013 Feb 10 04:13	2°) 55'47			9014 Feb 01 05:26	0°) (
	9013 Feb 28 09:08	0° Υ			9014 Feb 23 22:08	0° Υ	
evening max el	9013 Mar 13 14:07	16° ℃ 38'01	21°40'26	evening max el	9014 Feb 24 06:25	0° Υ 20'57	22°59'17
asc. node	9013 Mar 22 04:50	21°Υ59'25		retrograde	9014 Mar 06 12:06	6° Y 24'45	
retrograde	9013 Mar 22 16:16	22°Υ00'34		asc. node	9014 Mar 09 01:57	5°Υ51'56	
evening set	9013 Mar 27 02:16	20°Υ13'41		evening set	9014 Mar 11 09:24	4° Υ 23'12	
inferior conj	9013 Apr 01 09:33	13° Y 56′01	2°47'29		9014 Mar 15 06:46	30° ₹	2016110
minimum elong	9013 Apr 01 07:30	14° Υ 03'09	2°46'59	inferior conj	9014 Mar 16 18:22	27°) 57'57	
min. Earth dist.	9013 Apr 01 12:44	13° Y 44'54	0.68401 AU	minimum elong	9014 Mar 16 16:08	28° X 05'42	2°15'41
morning rise	9013 Apr 06 12:34	7° Υ 43'20 5° Υ 33'21		min. Earth dist.	9014 Mar 16 09:30	28°) (28'41	0.68477 AU
direct	9013 Apr 11 12:45	11° Υ 26'23	22947120	morning rise	9014 Mar 21 22:47	21° ∺ 50′20 20° ∺ 02′05	
morning max el	9013 Apr 21 11:31	11° γ 26'23 16° Υ 00'27	22°47'30	direct	9014 Mar 26 09:10	20° X 02'05 25° X 04'24	21822100
desc. node	9013 Apr 25 14:52 9013 May 06 05:22	0° 8		morning max el	9014 Apr 04 02:03	23 π0424 0°Υ	21°22'09
marning sat	9013 May 06 03.22 9013 May 25 16:58	29° 8 53'56		desc. node	9014 Apr 08 11:50	5° Υ 06'37	
morning set	9013 May 25 18:27	29 Ο 33 36		desc. node	9014 Apr 12 11:45 9014 Apr 29 15:44	0° 8	
max. Earth dist.	9013 May 30 06:54		1.40157 AU	morning set	9014 Apr 29 13:44 9014 May 05 12:43	9° 8 08'11	
max. Earm dist.	9013 May 30 00.34	7 1133 20	1.40137 AU	max. Earth dist.	9014 May 03 12:43 9014 May 12 08:25		1.42286 AU
superior conj	9013 Jun 07 01:19	21° Ⅱ 17'45	-1°33'44	max. Lattii dist.	9014 May 18 06:05	0°II	1.42200 AC
minimum elong	9013 Jun 07 07:03	21° II 43'52			9014 May 16 00.03	νш	
minimum ciong	9013 Jun 11 18:13	0°95	1 33 10	superior conj	9014 May 19 18:18	2° ∏ 35'14	-1°58'37
evening rise	9013 Jun 16 22:13	9° 5 47'23		minimum elong	9014 May 19 23:55	2° I I59'25	
asc. node	9013 Jun 18 03:40	12° © 07'04		evening rise	9014 May 31 00:54	22° I 37'57	1 30 20
use. Houe	9013 Jun 28 10:26	0°Ω		evening rise	9014 Jun 04 02:50	0°95	
evening max el	9013 Jul 02 23:30		18°27'18	asc. node	9014 Jun 05 00:42	1° 5 37'13	
retrograde	9013 Jul 10 14:37	9° Ω 24'28		evening max el	9014 Jun 16 10:00	18° © 27'59	18°07'38
evening set	9013 Jul 12 18:00	9° Ω 07'19		retrograde	9014 Jun 23 04:53	21° © 54'54	
inferior conj	9013 Jul 20 08:32	4° Ω 35'09	0°39'56	evening set	9014 Jun 25 15:59	21°528'01	
minimum elong	9013 Jul 20 09:56	4° £ 32′21	0°39'12	inferior conj	9014 Jul 02 12:19	16° © 35'35	1°55'33
desc. node	9013 Jul 22 14:14	2° Ω 47'40		minimum elong	9014 Jul 02 15:14	16° © 28'48	1°54'26
min. Earth dist.	9013 Jul 23 17:03	1° Ω 55'42	0.58062 AU	min. Earth dist.	9014 Jul 05 19:17	13° © 33'50	0.60279 AU
	9013 Jul 26 12:01	30° №		morning rise	9014 Jul 09 11:39	10°9644'45	
morning rise	9013 Jul 27 22:21	29° © 11'52		desc. node	9014 Jul 09 11:18	10°545'18	
direct	9013 Aug 02 22:17	27°538'51		direct	9014 Jul 16 00:26	8°540'48	
	9013 Aug 10 14:01	$0^{\circ}\Omega$		morning max el	9014 Jul 30 08:13	16°536'54	27°47'29
morning max el	9013 Aug 17 07:34	5° Ω 19'12	27°02'34	-	9014 Aug 10 08:48	$0^{\circ}\Omega$	
	9013 Sep 04 12:01	0° m/			9014 Aug 28 01:56	0° m	
asc. node	9013 Sep 14 03:19	18° m 05'49		morning set	9014 Aug 31 16:46	7° m 20'26	
morning set	9013 Sep 16 11:22	22° m 57'41		asc. node	9014 Sep 01 00:14	7° m 59'22	
	9013 Sep 19 17:43	0∘ ⊽		max. Earth dist.	9014 Sep 06 19:54	20° m 32'17	1.31666 AU
superior conj	9013 Sep 23 10:28	8° ≏ 10'47	1°21'48	superior conj	9014 Sep 07 21:44	22° Mp 54'56	1°04'53
minimum elong	9013 Sep 23 08:21	7° ჲ 59'00	1°21'33	minimum elong	9014 Sep 07 19:30	22°M 42'36	1°04'27
max. Earth dist.	9013 Sep 23 10:33	8° 亞 11'11	1.31614 AU		9014 Sep 11 02:32	0 ்	

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evening rise	9014 Sep 14 15:27	7° ≏ 42'41			9015 Sep 02 18:10	0∘ ⊽	
	9014 Sep 26 02:39	0°M			9015 Sep 21 17:23	0° M	
desc. node	9014 Oct 05 09:53	13°M58'24		desc. node	9015 Sep 22 07:01	0°M36'00	
evening max el	9014 Oct 12 01:03	21°M25'27	25°35'27	evening max el	9015 Sep 23 13:30	1°M52'18	24°02'32
retrograde	9014 Oct 25 23:01	28°M27'06		retrograde	9015 Oct 07 05:37	8°M42'54	
evening set	9014 Nov 01 00:37	27°M01'46		evening set	9015 Oct 12 00:58	7°M52'16	
min. Earth dist.	9014 Nov 05 13:26	24°M24'26	0.57801 AU	min. Earth dist.	9015 Oct 18 00:06	4°M55'58	0.56061 AU
inferior conj	9014 Nov 08 13:47	22°M18'40		inferior conj	9015 Oct 20 06:37	3°M32'46	
minimum elong	9014 Nov 08 20:08	22°M07'35	5°09'35	minimum elong	9015 Oct 20 07:26	3°M31'31	5°38'10
morning rise	9014 Nov 16 17:59	18°M00'26			9015 Oct 27 04:39	30° ₹ Ω	
direct	9014 Nov 19 01:54	17°M43'42		morning rise	9015 Oct 28 15:56	29° Ω 34'55	
morning max el	9014 Nov 27 18:39	21°M55'04	18°51'06	direct	9015 Oct 31 09:11	29° Ω 15'52	
asc. node	9014 Nov 28 00:00	22°M08'06			9015 Nov 04 09:12	0°M	
	9014 Dec 04 03:02	0° √		morning max el	9015 Nov 10 11:40	4°M02'02	19°54'19
morning set	9014 Dec 14 04:34	18° ⊀ 16'04		asc. node	9015 Nov 14 20:59	9°M02'40	
	9014 Dec 20 04:23	0°ප		morning set	9015 Nov 26 23:20 9015 Nov 28 09:02	0°⊀ 2°⊀50'00	
aumorior comi	9014 Dec 22 16:50	4° ⋜ 49'51	1°08'39	morning set	9013 NOV 28 09.02	2 x ·30 00	
superior conj minimum elong	9014 Dec 22 10:30 9014 Dec 22 20:06	5°る05'21	1°08'29	superior conj	9015 Dec 06 03:24	18° ∡ ³35'16	1°27'05
max. Earth dist.	9014 Dec 22 20:00 9014 Dec 29 18:38	3 30321 17° 3 49'31	1.39322 AU	minimum elong	9015 Dec 06 05:55		1°27'06
desc. node	9014 Dec 29 18:38 9015 Jan 01 08:45	17 3 4931 22° 3 21'04	1.39322 AO	max. Earth dist.	9015 Dec 00 05:55 9015 Dec 12 00:57		1.37165 AU
evening rise	9015 Jan 02 16:57	24°₹38'58		max. Earth dist.	9015 Dec 12 00:48	0°중	1.57105710
evening rise	9015 Jan 05 21:39	0°≈		evening rise	9015 Dec 15 19:01	6° る 54'03	
	9015 Jan 25 23:32	0° ∀		desc. node	9015 Dec 19 05:45	12° る 57'52	
evening max el	9015 Feb 06 20:22	14°)(07'47	24°19'18		9015 Dec 29 18:18	0° ≈	
retrograde	9015 Feb 18 04:25	20°) 46′19		evening max el	9016 Jan 20 09:38	27° ≈ 56'13	25°33'32
evening set	9015 Feb 23 13:56	18°) 31′17		C	9016 Jan 22 15:08	0°) €	
asc. node	9015 Feb 23 23:02	18° ℋ 11'16		retrograde	9016 Feb 01 16:09	4° ¥ 59'27	
min. Earth dist.	9015 Feb 28 05:39	13°) 11′24	0.68140 AU	evening set	9016 Feb 07 14:17	2°) 33'04	
inferior conj	9015 Mar 01 02:08	12°) €02'31	1°36'20		9016 Feb 10 03:24	30° ₹ ≈	
minimum elong	9015 Mar 01 00:10	12° ₩ 09'06	1°35'44	asc. node	9016 Feb 10 20:09	29° ≈ 10'48	
morning rise	9015 Mar 06 10:29	6° ∺ 01'30		min. Earth dist.	9016 Feb 11 22:53	27° ≈ 48′02	0.67412 AU
direct	9015 Mar 10 07:48	4°) €35'12		inferior conj	9016 Feb 13 06:55	26° ≈ 05'32	0°47'51
morning max el	9015 Mar 17 23:44	8°) € 54'24	20°07'45	minimum elong	9016 Feb 13 05:46	26° ≈ 09'14	0°47'33
desc. node	9015 Mar 30 08:39	24° ∺ 45'39		morning rise	9016 Feb 18 21:41	20°≈12'59	
	9015 Apr 02 22:40	0°Υ		direct	9016 Feb 22 07:04	19° ≈ 06'57	
morning set	9015 Apr 14 12:51	17° Ƴ 32'52		morning max el	9016 Feb 29 05:22	22° ≈ 55'09	19°07'53
	9015 Apr 22 12:05	0° 8			9016 Mar 06 03:18	0° ∀	
max. Earth dist.	9015 Apr 24 17:34	3° 8 32'45	1.44019 AU	greatest brilliancy	9016 Mar 13 13:44	10°) 45′56	-0.7m
	0015 1 20 11 14	1001410107	2011112	desc. node	9016 Mar 16 05:32	14°) (48'11	
superior conj	9015 Apr 30 11:14	12° 8 49'37		morning set	9016 Mar 23 15:02	26°) 11'45 0° °	
minimum elong	9015 Apr 30 12:57	12° ႘ 56'39 0° Ⅱ	2°11′50	Fauth diet	9016 Mar 26 01:57	• •	1 45151 ATT
avanina risa	9015 May 10 16:52 9015 May 13 09:51	0°П 4°П39'26		max. Earth dist.	9016 Apr 06 09:17	1/- 1 38 33	1.45151 AU
evening rise asc. node	9015 May 22 21:45	20° I I45'45		superior conj	9016 Apr 09 04:59	22° Y 05'31	-2°06'53
asc. node	9015 May 29 09:21	0°95		minimum elong	9016 Apr 08 23:36	21° Υ '44'15	
evening max el	9015 May 30 23:21	1° 9 42'45	18°07'09	minimum clong	9016 Apr 14 04:13	0°8	2 00 43
retrograde	9015 Jun 06 09:03	5°903'09	10 0, 0,	evening rise	9016 Apr 23 20:40	15° 8 43'15	
evening set	9015 Jun 09 03:48	4° © 23'57			9016 May 02 14:17	0°II	
C	9015 Jun 14 15:21	30°R Ⅱ		asc. node	9016 May 08 18:50	9° ∏ 24'50	
inferior conj	9015 Jun 15 09:35	29° Ⅱ 12'14	2°44'44	evening max el	9016 May 13 12:21	15° Ⅱ 11′02	18°25'06
minimum elong	9015 Jun 15 12:12	29° Ⅱ 05′20	2°43'56	retrograde	9016 May 19 22:44	18° ∐ 39′08	
min. Earth dist.	9015 Jun 18 06:09	26° Ⅲ 12'12	0.62517 AU	evening set	9016 May 23 00:55	17° Ⅱ 46′09	
morning rise	9015 Jun 21 18:48	23° Ⅱ 04′28		inferior conj	9016 May 28 20:12	12° Ⅱ 16'45	3°11'51
desc. node	9015 Jun 26 08:21	20° Ⅱ 50'56		minimum elong	9016 May 28 21:40	12° Ⅱ 12'25	3°11'26
direct	9015 Jun 28 12:45	20° Ⅲ 35'46		min. Earth dist.	9016 May 31 02:18	9°∏38′23	0.64530 AU
morning max el	9015 Jul 12 14:38	28° Ⅲ 38′01	27°54'08	morning rise	9016 Jun 03 17:26	6° Ⅱ 00′25	
	9015 Jul 13 22:26	0°©		direct	9016 Jun 10 09:20	3° Ⅱ 17'35	
	9015 Aug 04 05:37	$0^{\circ}\Omega$		desc. node	9016 Jun 12 05:23	3° Ⅱ 28'39	
morning set	9015 Aug 15 16:16	21° Ω 23'19		morning max el	9016 Jun 24 00:29	11° ∏ 16′00	27°24'53
asc. node	9015 Aug 18 21:10	28° Ω 01'16			9016 Jul 08 20:24	0°€	
	9015 Aug 19 19:36	0° m			9016 Jul 26 17:13	0°Ω	
max. Earth dist.	9015 Aug 21 01:31	2° Mp 40'08	1.32196 AU	morning set	9016 Jul 29 07:19	4° Ω 59'11	1 22212 :
	0015 4 22 06 40	70 m. 0011 7	0042111	max. Earth dist.	9016 Aug 02 23:36	14° Ω 25'03	1.33210 AU
superior conj	9015 Aug 23 06:40	7° m 28'15		asc. node	9016 Aug 04 18:09	18° Ω 06'58	
minimum elong	9015 Aug 20 04:51	7° Mp 18'19	0°42'43	aunorior:	0016 412 06 11 10	210 0 4 414 5	0017111
evening rise	9015 Aug 30 02:54	22° Mp 23'34		superior conj	9016 Aug 06 11:18	21° Ω 44'45	0 1/11

minimum elong	9016 Aug 06 10:27	21° Ω 40'15	0°16'50		9017 Jul 18 14:51	$0^{\circ}\Omega$	
	9016 Aug 10 07:36	0° Т)			0015 1 01 00 11	50 00 5145	0010105
evening rise	9016 Aug 13 14:12	7° Mp 00'41		superior conj	9017 Jul 21 09:14	5° Ω 37'47	
	9016 Aug 25 17:18	0° ⊽	22022152	minimum elong	9017 Jul 21 09:57	5° Ω 41'27	0°12'29
evening max el	9016 Sep 04 01:37	12° £ 03'13	22°22'52	behind sun begin	9017 Jul 21 06:12	5° Ω 22'11	
desc. node	9016 Sep 08 04:10	15° £ 28'16		behind sun end	9017 Jul 21 13:41	6°Ω00'44 8°Ω12'19	
retrograde	9016 Sep 17 00:15	18° £ 30'17		asc. node	9017 Jul 22 15:08		
evening set min. Earth dist.	9016 Sep 20 07:36	18° ♀ 06'09 14° ♀ 34'17	0.54936 AU	evening rise	9017 Jul 28 23:19	21° Ω 27'56 0° m	
	9016 Sep 28 08:01 9016 Sep 29 06:06	14 ≗ 34 17 14° £ 03'09		evening max el	9017 Aug 02 04:11	رانا 0 22° m 34'02	20052100
inferior conj minimum elong	9016 Sep 28 23:16	14 ≗ 03 09 14° ≗ 12'47		desc. node	9017 Aug 16 22:26 9017 Aug 26 01:19	22° my 03'25	20 32 09
•	9016 Oct 07 16:42	14 = 1247 10° ⊆ 15'40	3 13 43	retrograde	9017 Aug 28 12:35	28° Mp 18'44	
morning rise direct	9016 Oct 10 23:34	9° £ 51'23		evening set	9017 Aug 20 12:33 9017 Aug 30 17:24	28° Mp 07'08	
morning max el	9016 Oct 22 15:33		21°19'30	inferior conj	9017 Aug 30 17:24 9017 Sep 08 22:26	24° My 10'37	4°00'05
asc. node	9016 Oct 22 13:33 9016 Oct 31 17:59	26° £ 54'08	21 1930	minimum elong	9017 Sep 08 22:20 9017 Sep 08 12:49	24° M) 24'17	
asc. Houc	9016 Oct 31 17:39 9016 Nov 02 15:04	20 = 34 08 0° M		min. Earth dist.	9017 Sep 08 12:49 9017 Sep 09 16:48	23° m 44'29	0.54683 AU
morning set	9016 Nov 11 17:58	17°M35'06		morning rise	9017 Sep 07 10:48 9017 Sep 17 08:23	20° m 13'38	0.54065 AC
morning set	9016 Nov 17 17:36	0° ⊼ ¹		direct	9017 Sep 17 00:23	19° Mp 40'00	
	7010 NOV 17 13.47	0 x		morning max el	9017 Sep 21 07:27 9017 Oct 04 08:29	25° Mp 55'04	23°01'14
superior conj	9016 Nov 19 00:32	2° х 50'37	1°37'32	morning max er	9017 Oct 04 05:25 9017 Oct 08 05:06	23 m/33 04 0° Ω	25 01 14
minimum elong	9016 Nov 19 01:49	2° x 50'37' 2° x 57'17	1°37'42	asc. node	9017 Oct 18 14:58	0 — 15° Ω 28'24	
max. Earth dist.	9016 Nov 23 11:36	11° x ⁷ 55'19	1.35216 AU	use. Houe	9017 Oct 26 01:46	0°M	
evening rise	9016 Nov 27 14:43	19° х 55'49	1.55210 AO	morning set	9017 Oct 20 01:40 9017 Oct 27 05:11	2°M24'13	
evening rise	9016 Dec 03 03:27	0°る		morning set	7017 Oct 27 03.11	2 1102413	
desc. node	9016 Dec 05 02:48	3° る 24'45		superior conj	9017 Nov 03 04:48	17° M 24'58	1°40'54
dese. Hode	9016 Dec 22 18:45	0°≈		minimum elong	9017 Nov 03 04:49	17°M25'01	1°41'06
evening max el	9017 Jan 01 22:55	11° ≈ 40'49	26°34'41	max. Earth dist.	9017 Nov 06 05:47	23°M51'36	1.33630 AU
retrograde	9017 Jan 14 22:38	18°≈58'07	20 3 1 11	max. Earth dist.	9017 Nov 09 05:23	0° ⊼	1.55050710
evening set	9017 Jan 21 08:40	16°≈24'13		evening rise	9017 Nov 11 00:08	3° х 33'34	
min. Earth dist.	9017 Jan 25 11:00	12°≈13'50	0.66308 AU	desc. node	9017 Nov 21 23:52	23° × 35'32	
inferior conj	9017 Jan 27 06:45	10°≈03'16		dese. node	9017 Nov 25 22:48	0°중	
minimum elong	9017 Jan 27 06:59	10°≈02'35	0°08'26	evening max el	9017 Dec 15 11:50	25° る 12'00	27°15'42
transit middle	9017 Jan 27 06:59	10°≈02'35	0°08'26		9017 Dec 21 11:04	0° ≈	
transit begin	9017 Jan 27 04:31	10°≈10'00		retrograde	9017 Dec 28 23:15	2°≈33'36	
transit end	9017 Jan 27 09:28	9° ≈ 55'10		evening set	9018 Jan 04 18:55	29° る 58'19	
asc. node	9017 Jan 27 17:15	9° ≈ 32'00		<i>8</i>	9018 Jan 04 18:02	30°Rる	
morning rise	9017 Feb 02 06:15	4° ≈ 21'19		min. Earth dist.	9018 Jan 08 15:52	26° පි 21'19	0.64845 AU
direct	9017 Feb 05 05:10	3° ≈ 32'33		inferior conj	9018 Jan 10 23:17	23° る 49'55	-1°12'45
morning max el	9017 Feb 11 17:39	7° ≈ 02'19	18°24'06	minimum elong	9018 Jan 11 01:29	23° る 43'54	1°11'35
C	9017 Feb 27 21:06	0°)		asc. node	9018 Jan 14 14:21	20° ට 11'47	
desc. node	9017 Mar 03 02:27	5°) €08'00		morning rise	9018 Jan 17 09:35	18° පි 21'04	
morning set	9017 Mar 03 16:25	6°) €03'38		direct	9018 Jan 19 23:52	17° る 45'49	
	9017 Mar 18 20:21	$0^{\circ}\mathbf{\Upsilon}$		morning max el	9018 Jan 26 10:01	21° පි 08'15	17°57'05
					9018 Feb 02 06:31	0° ≈	
superior conj	9017 Mar 19 10:29	0° Y 55'16	-1°41'53	morning set	9018 Feb 12 23:15	17° ≈ 22'43	
minimum elong	9017 Mar 19 00:54	0° Ƴ 17'46	1°41'00	desc. node	9018 Feb 17 23:21	25° ≈ 39'35	
max. Earth dist.	9017 Mar 20 04:21	2° Y 05'12	1.45567 AU		9018 Feb 20 15:01	0° ∀	
evening rise	9017 Apr 04 07:57	25° Y 50'18					
	9017 Apr 06 23:21	9° 8		superior conj	9018 Feb 26 22:30	10° 米 09'55	-1°02'16
greatest brilliancy	9017 Apr 14 08:04	11° 8 32'03	-0.8m	minimum elong	9018 Feb 26 15:26	9° ∺ 41'46	1°01'14
asc. node	9017 Apr 25 15:57	27° 8 25'14		max. Earth dist.	9018 Mar 02 23:46		1.45235 AU
evening max el	9017 Apr 26 22:24	28° 8 46'36	19°00'42		9018 Mar 11 14:25	0 ° Υ	
	9017 Apr 28 05:38	Π $^{\circ}0$		evening rise	9018 Mar 15 00:44	5° Ƴ 17'21	
retrograde	9017 May 03 18:10	2° ∏ 35′12		greatest brilliancy	9018 Mar 29 10:45	27° Y 07'12	-0.6m
evening set	9017 May 07 04:03	1° Ⅱ 27'38			9018 Mar 31 10:20	0°8	
	9017 May 08 23:14	30° ₹ 8		evening max el	9018 Apr 10 03:45	12° 8 25'36	19°52'35
inferior conj	9017 May 12 16:25		3°21'27	asc. node	9018 Apr 12 13:03	14° 8 35'10	
minimum elong	9017 May 12 16:36	25° 8 41'43	3°21'14	retrograde	9018 Apr 17 16:18	16° 8 45'18	
min. Earth dist.	9017 May 14 07:16	23° 8 38'53	0.66177 AU	evening set	9018 Apr 21 10:40	15° 8 22'43	
morning rise	9017 May 18 04:39	19° 8 23'12		inferior conj	9018 Apr 26 19:10	9° 8 23'17	
direct	9017 May 24 13:02	16° 8 37'45		minimum elong	9018 Apr 26 18:14	9° 8 26'27	
desc. node	9017 May 30 02:23	18° 8 19'34		min. Earth dist.	9018 Apr 27 19:23	8° 8 01'58	0.67390 AU
morning max el	9017 Jun 06 11:10	24° 8 19'23	26°26'19	morning rise	9018 May 02 01:29	3° 8 05'04	
	9017 Jun 11 13:35	0°Щ		direct	9018 May 07 22:50	0° 8 27'29	
	9017 Jul 02 06:27	0∘ ©		desc. node	9018 May 16 23:22	4° 8 52'54	
morning set	9017 Jul 12 10:36	17°559'08		morning max el	9018 May 19 20:54	7° 8 36'37	25°07'42
max. Earth dist.	9017 Jul 16 11:17	25°5643'44	1.34708 AU		9018 Jun 06 08:12	Π °0	

morning set	9018 Jun 24 21:47	0° © 11'49			9019 May 09 23:37	0° ႘	
C	9018 Jun 24 19:08	0ಂತಾ			9019 May 30 13:57	$\Pi^{\circ}0$	
max. Earth dist.	9018 Jun 28 12:40	6° 5 47'39	1.36639 AU	morning set	9019 Jun 06 11:25	11° Ⅱ 21'54	
				max. Earth dist.	9019 Jun 10 08:48		1.38855 AU
superior conj	9018 Jul 04 21:35	19°500'22			9019 Jun 16 22:41	0ං වෙ	
minimum elong asc. node	9018 Jul 05 00:20 9018 Jul 09 12:07	19°©13'53 28°©13'46	0°44'02	superior conj	9019 Jun 17 20:36	1° © 42'23	1016'24
asc. node	9018 Jul 10 09:05	0°Ω		minimum elong	9019 Jun 18 01:26	2°905'07	
evening rise	9018 Jul 13 04:02	5° Ω 39'14		asc. node	9019 Jun 26 09:06	18°906'35	1 1000
C	9018 Jul 27 01:12	0° m		evening rise	9019 Jun 27 01:27	19° © 26'12	
evening max el	9018 Jul 30 08:42	3°M/47'53	19°39'30		9019 Jul 02 14:36	$0^{\circ}\Omega$	
retrograde	9018 Aug 09 05:49	8° m 40'50		evening max el	9019 Jul 13 07:14	15° Ω 46′05	18°47'41
evening set	9018 Aug 11 02:07	8° Mp 31'21		retrograde	9019 Jul 21 14:54	19° Ω 54'00	
desc. node	9018 Aug 12 22:26	8° Mp 04'06	2000127	evening set	9019 Jul 23 14:32	19° Ω 40'46 15° Ω 57'59	
inferior conj minimum elong	9018 Aug 19 22:17 9018 Aug 19 16:27	4° mp 28'10 4° mp 37'19	2°06'32	desc. node inferior conj	9019 Jul 30 19:33 9019 Jul 31 16:29	$15^{\circ} \Omega 20'15$	-0°15'58
min. Earth dist.	9018 Aug 22 04:26	3°Mp03'32	0.55394 AU	minimum elong	9019 Jul 31 15:50	15° Ω 21'26	0°15'55
morning rise	9018 Aug 28 04:32	0° m 02'26		transit middle	9019 Jul 31 15:50	15° Ω 21'26	0°15'55
-	9018 Aug 28 07:24	30°R Ω		transit begin	9019 Jul 31 15:17	15° Ω 22'27	
direct	9018 Sep 01 22:51	29° Ω 11'58		transit end	9019 Jul 31 16:23	15° Ω 20′26	
	9018 Sep 06 13:10	0°Щ		min. Earth dist.	9019 Aug 03 20:02		0.56930 AU
morning max el	9018 Sep 15 20:37	6° Mp 08'02	24°47'10	morning rise	9019 Aug 08 13:45	10° Ω 17'38	
asc. node	9018 Oct 03 00:49 9018 Oct 05 11:55	0° ჲ 4° ჲ 34'57		direct morning max el	9019 Aug 14 03:55 9019 Aug 28 10:53	9° Ω 01'53 16° Ω 28'09	26°20'20
morning set	9018 Oct 11 16:56	17° £ 12'25		morning max ci	9019 Aug 28 10:33 9019 Sep 08 12:28	0° M)	20 20 39
morning sec	9018 Oct 17 13:52	0°M		asc. node	9019 Sep 22 08:51	24° Mp 04'53	
					9019 Sep 25 05:53	0∘ ⊽	
superior conj	9018 Oct 18 13:38	2°M10'24	1°37'56	morning set	9019 Sep 26 03:34	1° ≏ 54'42	
minimum elong	9018 Oct 18 12:33	2°M04'29	1°38'01				
max. Earth dist.	9018 Oct 20 07:52	6°M00'49	1.32487 AU	superior conj	9019 Oct 03 00:51	16° £ 59'55	1°29'14
evening rise	9018 Oct 25 19:49 9018 Nov 01 03:44	17° M .38′26 0° <i>₹</i>		minimum elong max. Earth dist.	9019 Oct 02 23:00 9019 Oct 03 15:41	16° ♀ 49'38 18° ♀ 22'04	1°29'07 1.31804 AU
desc. node	9018 Nov 08 20:57	13° × ⁷ 23'13		max. Earth dist.	9019 Oct 08 23:44	0°M	1.51604 AU
	9018 Nov 20 10:31	0°る		evening rise	9019 Oct 09 22:49	2°M02'02	
evening max el	9018 Nov 27 23:00	8° ප 18'36	27°29'45	C	9019 Oct 25 01:23	0°⊀	
retrograde	9018 Dec 11 17:07	15° る 36'53		desc. node	9019 Oct 26 18:04	2° ∡ ³38′24	
evening set	9018 Dec 18 18:18	13° る 08'36		evening max el	9019 Nov 10 05:58	20° ∡ ′47′38	27°11'32
min. Earth dist.	9018 Dec 22 11:34	10°る01'29	0.63069 AU	retrograde	9019 Nov 24 03:03	27° 🖈 59'04	
inferior conj minimum elong	9018 Dec 25 05:44 9018 Dec 25 10:19	7°る19'05 7°る07'50		evening set min. Earth dist.	9019 Dec 01 03:20 9019 Dec 04 20:39	25° ✓ 47'36	0.61061 AU
morning rise	9019 Jan 01 04:24	7 30730 2° 3 06'11	2 20 20	inferior conj	9019 Dec 04 20:39 9019 Dec 07 22:56	20° × 22'30	
asc. node	9019 Jan 01 11:26	2° ප 00'12		minimum elong	9019 Dec 08 05:42	20°×22'30'49	
direct	9019 Jan 03 12:21	1° る 40'32		morning rise	9019 Dec 15 10:26	15° ∡ ¹28'56	
morning max el	9019 Jan 10 03:26	5° る 05'07	17°47'29	direct	9019 Dec 17 15:08	15° ₹ 09'12	
morning set	9019 Jan 26 07:22	29° る 54'56		asc. node	9019 Dec 19 08:28	15° ≮ 21'48	
	9019 Jan 26 08:31	0°≈		morning max el	9019 Dec 24 18:41	18° ≯ ⁴44'35	17°56'18
desc. node	9019 Feb 04 20:15	16°≈18'54		morning set	9020 Jan 01 22:29 9020 Jan 09 10:14	0°る 13°る20'38	
superior conj	9019 Feb 07 07:48	20° ≈ 27'25	-0°18'14	morning set	9020 Jan 18 15:37	13 3 2038 0° ≈	
minimum elong	9019 Feb 07 05:55	20° ≈ 19'37					
-	9019 Feb 13 04:12	0°) €		superior conj	9020 Jan 19 18:40	1° ≈ 58′29	0°21'53
max. Earth dist.	9019 Feb 13 17:14	0°) 52′15	1.44207 AU	minimum elong	9020 Jan 19 20:30	2° ≈ 06′27	0°21'50
evening rise	9019 Feb 22 12:04	14°) (39′23		desc. node	9020 Jan 22 17:11	7° ≈ 02'41	
	9019 Mar 04 15:41	0° Υ 26° Υ 05'49	20050111	max. Earth dist.	9020 Jan 27 07:12	14°≈44'11	1.42593 AU
evening max el	9019 Mar 24 03:35 9019 Mar 28 23:25	0° 8	20°58'11	evening rise	9020 Feb 02 09:18 9020 Feb 05 20:41	24°≈33'54 0° 米	
asc. node	9019 Mar 30 10:11	0° 8 39'53			9020 Feb 26 15:20	0°Υ	
retrograde	9019 Apr 01 14:47	1° 8 04'06		evening max el	9020 Mar 05 22:21	9° Ƴ 48'06	22°13'31
	9019 Apr 04 23:51	30° ₹Ƴ		retrograde	9020 Mar 15 11:56	15° Y 27'57	
evening set	9019 Apr 05 18:45	29° Y 26′08		asc. node	9020 Mar 16 07:17	15° Y 24'41	
inferior conj	9019 Apr 11 01:53	23°Υ14'38	3°01'13	evening set	9020 Mar 20 02:40	13° Y 34'44	2025:21
minimum elong	9019 Apr 11 00:08	23°Y20'41	3°00'50	inferior conj	9020 Mar 25 10:29	7° Υ 13'41 7° Υ 21'16	2°35'21
min. Earth dist. morning rise	9019 Apr 11 12:30 9019 Apr 16 05:18	22° Υ 37'54 16° Υ 59'34	0.68159 AU	minimum elong min. Earth dist.	9020 Mar 25 08:19 9020 Mar 25 08:29	7°° γ ′21′16 7° Υ 20′40	2°34'48 0.68488 AU
direct	9019 Apr 10 03.18 9019 Apr 21 13:34	16° 7 39 34 14° Y 37'49		morning rise	9020 Mar 30 13:47	1° Υ 03'10	0.00 1 00 AU
morning max el	9019 May 02 06:02	21° Υ 00'24	23°39'05		9020 Apr 01 00:33	30° ₹	
desc. node	9019 May 03 20:17	22° Y 40'40		direct	9020 Apr 04 08:11	29°) €02'08	

	9020 Apr 07 22:30	0°Υ		morning rise	9021 Mar 15 00:53	15° ¥ 12'10	
morning max el	9020 Apr 13 17:35	4° Υ 32'27	22°10'13	direct	9021 Mar 19 05:35	13°\(\)433'30	
desc. node	9020 Apr 19 17:10	4 γ 32 27 11° Υ 22'47	22 1013	morning max el	9021 Mar 19 03:33 9021 Mar 27 11:02	18° X 15'52	20040156
desc. node	9020 Apr 19 17:10 9020 May 03 03:57	0° 8		morning max er	9021 Mai 27 11:02 9021 Apr 06 01:17	16 γ (15 52	20 46 30
morning sat	9020 May 05 03:37 9020 May 16 22:41	21° 8 18'08		daga mada	9021 Apr 06 14:05	0° Υ 44'03	
morning set	,	0° I I		desc. node		0° 8 05'45	
Fauth 4iat	9020 May 22 05:27		1 41101 411	morning set	9021 Apr 26 08:16	_	
max. Earth dist.	9020 May 22 07:27	0° Ⅱ 08'25	1.41101 AU	F 4 F 4	9021 Apr 26 06:48	0° 8	1 42006 444
	0020 M 20 01 52	120 1122144	1045110	max. Earth dist.	9021 May 04 12:36	13° 8 05'36	1.43086 AU
superior conj	9020 May 30 01:52	13° Ⅱ 33'44			000136 11 00 51	210112	200000
minimum elong	9020 May 30 07:54	14° Ⅱ 00'32	1°44'56	superior conj	9021 May 11 08:51	24° 8 24'14	
	9020 Jun 08 01:44	0°95		minimum elong	9021 May 11 13:21	24° 8 43'12	2°05'59
evening rise	9020 Jun 09 12:10	2° © 40'25			9021 May 14 15:48	0°II	
asc. node	9020 Jun 12 06:06	7° © 46'33		evening rise	9021 May 23 07:53	15° Ⅱ 11'29	
evening max el	9020 Jun 25 14:26	28° © 21'13	18°16'31	asc. node	9021 May 30 03:09	27° Ⅱ 08′22	
	9020 Jun 27 12:06	$0^{\circ}\Omega$			9021 May 31 20:02	0 \circ \odot	
retrograde	9020 Jul 02 19:23	1° Ω 58'45		evening max el	9021 Jun 09 02:28	11° © 23'45	18°05'07
evening set	9020 Jul 05 02:07	1° Ω 37'43		retrograde	9021 Jun 15 16:18	14° © 46'29	
	9020 Jul 08 09:58	30° ₹ ∽		evening set	9021 Jun 18 06:37	14° © 14'40	
inferior conj	9020 Jul 12 08:29	26°\$56'30	1°15'24	inferior conj	9021 Jun 24 20:14	9° © 13'37	2°19'25
minimum elong	9020 Jul 12 10:50	26°©51'31	1°14'22	minimum elong	9021 Jun 24 23:10	9° © 06'22	2°18'24
min. Earth dist.	9020 Jul 15 17:37	24° © 04'59	0.58988 AU	min. Earth dist.	9021 Jun 27 23:25	6° © 09'52	0.61237 AU
desc. node	9020 Jul 16 16:38	23° © 19'50		morning rise	9021 Jul 01 13:21	3°514'06	
morning rise	9020 Jul 19 16:19	21° © 20'25		desc. node	9021 Jul 03 13:41	2° 5 04'27	
direct	9020 Jul 25 22:34	19° © 34'16		direct	9021 Jul 08 05:01	0°ഇ58'49	
morning max el	9020 Aug 09 07:37	27° © 21'27	27°26'17	morning max el	9021 Jul 22 11:14	8°\$59'00	27°55'09
C	9020 Aug 11 20:35	$0^{\circ}\Omega$		Č	9021 Aug 07 15:33	$0^{\circ}\Omega$	
	9020 Sep 01 03:24	0° m/			9021 Aug 24 06:24	0° m	
asc. node	9020 Sep 08 05:45	13° m 51'38		morning set	9021 Aug 24 14:38	0° mp 42'19	
morning set	9020 Sep 09 11:25	16° Mp 26'24		asc. node	9021 Aug 26 02:41	3° m 49'47	
morning sec	9020 Sep 15 17:12	0° ⊽		max. Earth dist.	9021 Aug 30 10:13	13° m 05'45	1.31830 AU
max. Earth dist.	9020 Sep 16 01:47	0° ჲ 47'34	1.31586 AU	max. Earth dist.	7021 Aug 30 10.13	13 14 03 13	1.51050710
max. Earth dist.	7020 Бер 10 01.47	0 = 47 54	1.51500710	superior conj	9021 Aug 31 23:08	16° Mp 28'26	0°56'15
superior conj	9020 Sep 16 12:37	1° ≏ 47'42	1°15'14	minimum elong	9021 Aug 31 23:00 9021 Aug 31 21:01	16° Mp 16'45	
minimum elong	9020 Sep 16 10:23	1° ⊆ 4742 1° ⊆ 35'21	1°14'53	minimum ciong	9021 Aug 31 21:01 9021 Sep 07 02:56	0° ⊽	0 3347
Č	•	1 = 33 21 16° £ 37'18	1 14 33	evening rise	9021 Sep 07 02:30 9021 Sep 07 17:28	0 == 1° ⊆ 18'10	
evening rise	9020 Sep 23 06:44			evening rise			
JJ.	9020 Sep 29 20:55	0°M		4 4-	9021 Sep 23 04:35	0°M	
desc. node	9020 Oct 12 15:11	21°ML07'47		desc. node	9021 Sep 29 12:19	8°M33'36	24057140
	9020 Oct 19 19:26	0° ⊀ 7	26010114	evening max el	9021 Oct 03 21:28	13°M16'38	24°57'49
evening max el	9020 Oct 22 05:49	2° ₹ 27'15	26°19'14	retrograde	9021 Oct 17 17:51	20°M15'08	
retrograde	9020 Nov 05 03:45	9° ₹ 32'15		evening set	9021 Oct 23 08:10	19°M04'26	0.55006.433
evening set	9020 Nov 11 17:26	7° ₹ 47'26		min. Earth dist.	9021 Oct 28 08:56	16°M21'27	
min. Earth dist.	9020 Nov 15 18:59	5° ≯ 12'56	0.58965 AU	inferior conj	9021 Oct 31 03:48	14°M31'52	
inferior conj	9020 Nov 18 23:14	2° ∡ 49'31		minimum elong	9021 Oct 31 08:22	14°M24'22	5°26'39
minimum elong	9020 Nov 19 06:41	2° ₹ 35′26	4°38'17	morning rise	9021 Nov 08 10:51	10°M23'22	
	9020 Nov 23 00:47	30°RM		direct	9021 Nov 10 22:00	10°M06'06	
morning rise	9020 Nov 26 22:19	28°M18'18		morning max el	9021 Nov 20 04:16	14°M30'44	19°15'14
direct	9020 Nov 29 03:43	28°M01'18		asc. node	9021 Nov 22 02:28	16°M31'58	
	9020 Dec 04 20:26	0° ∡			9021 Dec 01 00:03	0° ⊼	
asc. node	9020 Dec 05 05:28	0° ∡ 16'17		morning set	9021 Dec 07 03:00	11° ∡ 746'41	
morning max el	9020 Dec 07 04:10	1° ∡ 56′23	18°25'01				
morning set	9020 Dec 23 02:10	27° ∡ ¹21'51		superior conj	9021 Dec 15 06:50	27° ₹ 757'21	1°17'28
	9020 Dec 24 11:09	ರ°0		minimum elong	9021 Dec 15 09:52	28° ҂ 12'03	1°17'23
					9021 Dec 16 08:15	ರ°0	
superior conj	9021 Jan 01 04:02	14° る 33'15	0°54'06	max. Earth dist.	9021 Dec 21 22:04	10° පි 25'06	1.38392 AU
minimum elong	9021 Jan 01 07:16	14° る 48'09	0°53'54	evening rise	9021 Dec 25 16:13	17° පි 05'36	
max. Earth dist.	9021 Jan 08 16:23	27° る 56'25	1.40573 AU	desc. node	9021 Dec 26 11:10	18° පි 27'40	
desc. node	9021 Jan 08 14:09	27° る 46'48			9022 Jan 02 09:46	0° ≈	
	9021 Jan 09 21:17	0° ≈			9022 Jan 23 12:11	0°) €	
evening rise	9021 Jan 13 01:51	5° ≈ 20'55		evening max el	9022 Jan 30 02:39	7°) 19'48	24°51'53
5 -	9021 Jan 29 00:57	0°) €		retrograde	9022 Feb 10 20:58	14°) € 10'51	
evening max el	9021 Feb 16 13:22	23°) 32'34	23°33'30	evening set	9022 Feb 16 11:52	11°) 50'25	
retrograde	9021 Feb 27 06:21	29°) 51'54		asc. node	9022 Feb 18 01:31	10° ₩ 19'59	
asc. node	9021 Mar 03 04:24	28°) (37'33		min. Earth dist.	9022 Feb 21 00:20	6°) 45′23	0.67879 AU
evening set	9021 Mar 04 08:53	27°) (44'09		inferior conj	9022 Feb 22 01:48	5° ¥ 21'17	
min. Earth dist.	9021 Mar 04 08:33 9021 Mar 09 05:08	22°) (04'38	0.68388 AU	minimum elong	9022 Feb 22 00:07	5° ∺ 26'51	1°16'16
inferior conj	9021 Mar 09 03:08 9021 Mar 09 19:04	21° X 16'54	2°00'23	mmmum clong	9022 Feb 26 17:52	30°R≈	1 1010
minimum elong	9021 Mar 09 16:53	21° X 16'34 21° X 24'22	2 00 23 1°59'45	morning rise	9022 Feb 26 17:32 9022 Feb 27 12:37	30 k≈ 29°≈23'43	
minimum ciong	7021 Mai 07 10.33	2: 1(2422	1 37 73	morning 1130	7022100 21 12.31	27 ~2343	

direct	9022 Mar 03 04:35	28°≈06'35 0°¥		morning rise direct	9023 Feb 11 22:59	13°≈34'34	
morning max el	9022 Mar 07 23:44 9022 Mar 10 12:15	0° X 2° X 11'18	19°40'19	morning max el	9023 Feb 15 03:38 9023 Feb 21 20:57	12°≈36'22 16°≈15'40	18°47'08
greatest brilliancy	9022 Mar 10 12:13 9022 Mar 23 05:43	18°) 46'04	-0.6m	morning max ci	9023 Nar 04 07:58	0° ₩	18 47 08
desc. node	9022 Mar 24 11:00	20°\(\frac{4}{3}\)4'02	0.0111	desc. node	9023 Mar 11 07:54	10° ¥ 44'57	
dese. Hode	9022 Mar 30 17:32	0°Υ		morning set	9023 Mar 15 16:21	10 X 44 37 17° ¥ 32'37	
morning set	9022 Apr 05 06:06	8° Υ 27'21		morning sec	9023 Mar 23 15:34	0° Υ	
max. Earth dist.	9022 Apr 17 00:23	26° Y 48'37	1.44579 AU	max. Earth dist.	9023 Mar 30 17:27	11° Υ ′04'18	1.45417 AU
	9022 Apr 19 00:31	0°8					
	•			superior conj	9023 Apr 01 01:56	13° Y 11'38	-1°58'36
superior conj	9022 Apr 21 15:15	4° 8 11'22	-2°12'07	minimum elong	9023 Mar 31 17:59	12° Y ′40'29	1°58'08
minimum elong	9022 Apr 21 14:07	4° 8 06'44	2°12'14		9023 Apr 11 16:53	0° 8	
evening rise	9022 May 05 07:52	26° 8 49'01		evening rise	9023 Apr 16 08:33	7° 8 27'57	
	9022 May 07 05:05	Π °0		greatest brilliancy	9023 Apr 22 20:55	17° 8 57'40	-0.9m
asc. node	9022 May 17 00:13	16° Ⅱ 05'23			9023 Apr 30 15:08	Π °0	
evening max el	9022 May 23 15:58	24° ∏ 44'47	18°12'36	asc. node	9023 May 03 21:19	4° Ⅱ 29'55	
retrograde	9022 May 30 01:01	28° ∏ 07'06		evening max el	9023 May 07 04:04	8° Ⅱ 17'39	18°38'13
evening set	9022 Jun 01 22:48	27° ∐ 22'21		retrograde	9023 May 13 17:27	11° Ⅱ 52'49	
inferior conj	9022 Jun 07 23:40	22° Ⅱ 03'06	2°58'40	evening set	9023 May 16 22:50	10° Ⅲ 53'47	
minimum elong	9022 Jun 08 01:50	21° I 57'03	2°58'02	inferior conj	9023 May 22 14:48	5° Ⅱ 17'44	
min. Earth dist.	9022 Jun 10 14:26	19° Ⅱ 09'50	0.63404 AU	minimum elong	9023 May 22 15:43	5° Ⅱ 14'55	
morning rise	9022 Jun 14 03:25	15° ∏ 50′33		min. Earth dist.	9023 May 24 14:31	2° Ⅱ 52'44	0.65283 AU
desc. node	9022 Jun 20 10:45	13° Ⅱ 14'46			9023 May 27 05:31	30°₹8	
direct morning max el	9022 Jun 20 21:13 9022 Jul 04 19:30	13° Ⅱ 14'09 21° Ⅱ 17'15	27945140	morning rise direct	9023 May 28 07:50 9023 Jun 03 21:15	28° 8 59'45 26° 8 14'04	
morning max er	9022 Jul 04 19.30 9022 Jul 12 08:53	21 п 1/13	27 43 49	desc. node	9023 Jun 03 21:13 9023 Jun 07 07:45	26° 8 53'07	
	9022 Jul 12 08.33 9022 Jul 31 18:36	0°Ω 0 €3		desc. node	9023 Jun 07 07.43 9023 Jun 12 15:53	20 O 33 07 0° Ⅱ	
morning set	9022 Jul 31 18:30 9022 Aug 08 10:54	0 δι 14° Ω 34'47		morning max el	9023 Jun 17 05:49	0 <u>П</u> 4° П 07'16	27°02'57
asc. node	9022 Aug 10 10:34 9022 Aug 12 23:37	23°Ω53'48		morning max ci	9023 Jul 06 20:05	0°95	27 0237
max. Earth dist.	9022 Aug 13 12:53	25° Ω 03'57	1.32558 AU	morning set	9023 Jul 22 21:22	27° 9 56'32	
max. Earth dist.	9022 Aug 15 20:15	0°m	1.32330110	morning sec	9023 Jul 23 22:50	0°Ω	
	7022114g 10 20.10	v .y		max. Earth dist.	9023 Jul 27 06:27	6° Ω 35'57	1.33788 AU
superior conj	9022 Aug 16 06:29	0° mp 55'18	0°32'39	asc. node	9023 Jul 30 20:35	13° Ω 59'58	
minimum elong	9022 Aug 16 05:00	0° m /47'18	0°32'13				
evening rise	9022 Aug 23 05:02	15° m 57'49		superior conj	9023 Jul 31 08:35	15° Ω 02'52	0°05'02
	9022 Aug 30 03:08	0 o $\overline{\mathbf{v}}$		minimum elong	9023 Jul 31 08:20	15° Ω 01'32	0°04'47
evening max el	9022 Sep 15 08:36	23° ≏ 32'13	23°20'02	behind sun begin	9023 Jul 31 02:55	14° Ω 33'07	
desc. node	9022 Sep 16 09:28	24° ≏ 30′25		behind sun end	9023 Jul 31 13:45	15° Ω 29'59	
	9022 Sep 26 04:52	0° M			9023 Aug 07 09:41	0° m p	
retrograde						עוי י	
	9022 Sep 28 19:36	0° ™ 15'34		evening rise	9023 Aug 07 15:38	0°m/31'19	
	9022 Sep 28 19:36 9022 Oct 01 11:12	30° ₹ Ω		-	9023 Aug 07 15:38 9023 Aug 24 13:23	0° ™ 31'19 0° ≏	
evening set	9022 Sep 28 19:36 9022 Oct 01 11:12 9022 Oct 02 23:14	30° ₹2 9° 2 37'58		evening max el	9023 Aug 07 15:38 9023 Aug 24 13:23 9023 Aug 27 23:36	0° m/31'19 0° <u>∩</u> 3° <u>∩</u> 47'58	21°42'31
min. Earth dist.	9022 Sep 28 19:36 9022 Oct 01 11:12 9022 Oct 02 23:14 9022 Oct 09 18:14	30°R ≏ 29° ≏ 37'58 26° ≏ 28'07	0.55485 AU	evening max el desc. node	9023 Aug 07 15:38 9023 Aug 24 13:23 9023 Aug 27 23:36 9023 Sep 03 06:36	0°നു31'19 0° <u>മ</u> 3° <u>മ</u> 47'58 8° <u>മ</u> 27'54	21°42'31
min. Earth dist. inferior conj	9022 Sep 28 19:36 9022 Oct 01 11:12 9022 Oct 02 23:14 9022 Oct 09 18:14 9022 Oct 11 12:30	30°R. Ω 29° Ω 37'58 26° Ω 28'07 25° Ω 26'09	-5°36'06	evening max el desc. node retrograde	9023 Aug 07 15:38 9023 Aug 24 13:23 9023 Aug 27 23:36 9023 Sep 03 06:36 9023 Sep 09 10:03	0° № 31'19 0° Ω 3° Ω 47'58 8° Ω 27'54 9° Ω 58'20	21°42'31
min. Earth dist. inferior conj minimum elong	9022 Sep 28 19:36 9022 Oct 01 11:12 9022 Oct 02 23:14 9022 Oct 09 18:14 9022 Oct 11 12:30 9022 Oct 11 09:57	30°R. Ω 29° Ω 37'58 26° Ω 28'07 25° Ω 26'09 25° Ω 29'53	-5°36'06	evening max el desc. node retrograde evening set	9023 Aug 07 15:38 9023 Aug 24 13:23 9023 Aug 27 23:36 9023 Sep 03 06:36 9023 Sep 09 10:03 9023 Sep 12 03:59	0° നു 31'19 0° മ 3° മ 47'58 8° മ 27'54 9° മ 58'20 9° മ 41'18	
min. Earth dist. inferior conj minimum elong morning rise	9022 Sep 28 19:36 9022 Oct 01 11:12 9022 Oct 02 23:14 9022 Oct 09 18:14 9022 Oct 11 12:30 9022 Oct 11 09:57 9022 Oct 19 22:41	30°R	-5°36'06	evening max el desc. node retrograde evening set inferior conj	9023 Aug 07 15:38 9023 Aug 24 13:23 9023 Aug 27 23:36 9023 Sep 03 06:36 9023 Sep 09 10:03 9023 Sep 12 03:59 9023 Sep 21 07:13	0° M31'19 0° Ω 3° Ω47'58 8° Ω27'54 9° Ω58'20 9° Ω41'18 5° Ω43'01	-4°50′23
min. Earth dist. inferior conj minimum elong morning rise direct	9022 Sep 28 19:36 9022 Oct 01 11:12 9022 Oct 02 23:14 9022 Oct 09 18:14 9022 Oct 11 12:30 9022 Oct 11 09:57 9022 Oct 19 22:41 9022 Oct 22 21:04	30°R	-5°36'06 5°35'52	evening max el desc. node retrograde evening set inferior conj minimum elong	9023 Aug 07 15:38 9023 Aug 24 13:23 9023 Aug 27 23:36 9023 Sep 03 06:36 9023 Sep 09 10:03 9023 Sep 12 03:59 9023 Sep 21 07:13 9023 Sep 20 22:16	0° M 31'19 0° Ω 3° Ω 47'58 8° Ω 27'54 9° Ω 58'20 9° Ω 41'18 5° Ω 43'01 5° Ω 55'31	-4°50'23 4°48'26
min. Earth dist. inferior conj minimum elong morning rise	9022 Sep 28 19:36 9022 Oct 01 11:12 9022 Oct 02 23:14 9022 Oct 09 18:14 9022 Oct 11 12:30 9022 Oct 11 09:57 9022 Oct 19 22:41 9022 Oct 22 21:04 9022 Nov 02 15:51	30°R	-5°36'06 5°35'52	evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist.	9023 Aug 07 15:38 9023 Aug 24 13:23 9023 Aug 27 23:36 9023 Sep 03 06:36 9023 Sep 09 10:03 9023 Sep 12 03:59 9023 Sep 21 07:13 9023 Sep 20 22:16 9023 Sep 21 02:18	0° M 31'19 0° Ω 3° Ω 47'58 8° Ω 27'54 9° Ω 58'20 9° Ω 41'18 5° Ω 43'01 5° Ω 55'31 5° Ω 49'53	-4°50′23
min. Earth dist. inferior conj minimum elong morning rise direct morning max el	9022 Sep 28 19:36 9022 Oct 01 11:12 9022 Oct 02 23:14 9022 Oct 09 18:14 9022 Oct 11 12:30 9022 Oct 11 09:57 9022 Oct 19 22:41 9022 Oct 22 21:04 9022 Nov 02 15:51 9022 Nov 06 01:56	30°R	-5°36'06 5°35'52	evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	9023 Aug 07 15:38 9023 Aug 24 13:23 9023 Aug 27 23:36 9023 Sep 03 06:36 9023 Sep 09 10:03 9023 Sep 12 03:59 9023 Sep 21 07:13 9023 Sep 20 22:16 9023 Sep 21 02:18 9023 Sep 29 17:41	0° m31'19 0° a 3° a47'58 8° a27'54 9° a58'20 9° a41'18 5° a43'01 5° a55'31 5° a49'53 1° a53'54	-4°50'23 4°48'26
min. Earth dist. inferior conj minimum elong morning rise direct morning max el	9022 Sep 28 19:36 9022 Oct 01 11:12 9022 Oct 02 23:14 9022 Oct 09 18:14 9022 Oct 11 12:30 9022 Oct 11 09:57 9022 Oct 19 22:41 9022 Oct 22 21:04 9022 Nov 02 15:51 9022 Nov 06 01:56 9022 Nov 08 23:28	30°R \(\Omega\) 29° \(\Omega\) 37'58 26° \(\Omega\) 28'07 25° \(\Omega\) 26'09 25° \(\Omega\) 29'53 21° \(\Omega\) 3'39 26° \(\Omega\) 17'42 0° \(\mathrm{M}\) 3° \(\mathrm{M}\) 52'37	-5°36'06 5°35'52	evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	9023 Aug 07 15:38 9023 Aug 24 13:23 9023 Aug 27 23:36 9023 Sep 03 06:36 9023 Sep 09 10:03 9023 Sep 12 03:59 9023 Sep 21 07:13 9023 Sep 20 22:16 9023 Sep 21 02:18 9023 Sep 29 17:41 9023 Oct 03 07:21	0° m31'19 0° a 3° a47'58 8° a27'54 9° a58'20 9° a41'18 5° a43'01 5° a55'31 5° a49'53 1° a53'54 1° a26'04	-4°50'23 4°48'26 0.54714 AU
min. Earth dist. inferior conj minimum elong morning rise direct morning max el	9022 Sep 28 19:36 9022 Oct 01 11:12 9022 Oct 02 23:14 9022 Oct 09 18:14 9022 Oct 11 12:30 9022 Oct 11 09:57 9022 Oct 19 22:41 9022 Oct 22 21:04 9022 Nov 02 15:51 9022 Nov 06 01:56 9022 Nov 08 23:28 9022 Nov 21 09:39	30°R	-5°36'06 5°35'52	evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	9023 Aug 07 15:38 9023 Aug 24 13:23 9023 Aug 27 23:36 9023 Sep 03 06:36 9023 Sep 09 10:03 9023 Sep 12 03:59 9023 Sep 21 07:13 9023 Sep 20 22:16 9023 Sep 21 02:18 9023 Sep 29 17:41 9023 Oct 03 07:21 9023 Oct 15 14:21	0° M31'19 0° Ω 3° Ω47'58 8° Ω27'54 9° Ω58'20 9° Ω41'18 5° Ω43'01 5° Ω55'31 5° Ω49'53 1° Ω53'54 1° Ω26'04 7° Ω15'01	-4°50'23 4°48'26
min. Earth dist. inferior conj minimum elong morning rise direct morning max el	9022 Sep 28 19:36 9022 Oct 01 11:12 9022 Oct 02 23:14 9022 Oct 09 18:14 9022 Oct 11 12:30 9022 Oct 11 09:57 9022 Oct 19 22:41 9022 Oct 22 21:04 9022 Nov 02 15:51 9022 Nov 06 01:56 9022 Nov 08 23:28	30°R \(\Omega\) 29° \(\Omega\) 37'58 26° \(\Omega\) 28'07 25° \(\Omega\) 26'09 25° \(\Omega\) 29'53 21° \(\Omega\) 3'39 26° \(\Omega\) 17'42 0° \(\mathrm{M}\) 3° \(\mathrm{M}\) 52'37	-5°36'06 5°35'52	evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	9023 Aug 07 15:38 9023 Aug 24 13:23 9023 Aug 27 23:36 9023 Sep 03 06:36 9023 Sep 09 10:03 9023 Sep 12 03:59 9023 Sep 21 07:13 9023 Sep 20 22:16 9023 Sep 21 02:18 9023 Sep 29 17:41 9023 Oct 03 07:21	0° M31'19 0° Ω 3° Ω47'58 8° Ω27'54 9° Ω58'20 9° Ω41'18 5° Ω43'01 5° Ω55'31 5° Ω49'53 1° Ω53'54 1° Ω26'04 7° Ω15'01 22° Ω03'40	-4°50'23 4°48'26 0.54714 AU
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min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	9022 Sep 28 19:36 9022 Oct 01 11:12 9022 Oct 02 23:14 9022 Oct 09 18:14 9022 Oct 11 12:30 9022 Oct 11 09:57 9022 Oct 19 22:41 9022 Oct 22 21:04 9022 Nov 02 15:51 9022 Nov 06 01:56 9022 Nov 08 23:28 9022 Nov 21 09:39 9022 Nov 23 03:08 9022 Nov 28 22:21 9022 Nov 29 00:22 9022 Dec 04 05:14 9022 Dec 08 06:11 9022 Dec 13 08:12 9022 Dec 26 15:04	30°R № 29° № 37'58 26° № 28'07 25° № 26'09 25° № 29'53 21° № 34'25 21° № 13'39 26° № 17'42 0° № 3° № 52'37 26° № 26'01 0° ৵ 11° ৵ 56'57 12° ৵ 07'10 22° ৵ 24'48 29° ৵ 42'02 0° ጜ	-5°36'06 5°35'52 20°28'00 1°32'25 1°32'31 1.36300 AU	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	9023 Aug 07 15:38 9023 Aug 24 13:23 9023 Aug 27 23:36 9023 Sep 03 06:36 9023 Sep 09 10:03 9023 Sep 12 03:59 9023 Sep 21 07:13 9023 Sep 20 22:16 9023 Sep 21 02:18 9023 Sep 21 02:18 9023 Sep 29 17:41 9023 Oct 03 07:21 9023 Oct 15 14:21 9023 Oct 26 20:27 9023 Oct 31 06:20 9023 Nov 05 19:45 9023 Nov 12 22:50 9023 Nov 12 23:34 9023 Nov 14 16:40	0°My31'19 0°Ω 3°Ω47'58 8°Ω27'54 9°Ω58'20 9°Ω41'18 5°Ω43'01 5°Ω55'31 5°Ω49'53 1°Ω53'54 1°Ω26'04 7°Ω15'01 22°Ω03'40 0°M 11°M\13'16 26°M\21'04 26°M\224'55 0° 4° 4° \$\frac{1}{2}18'23 13° \$\frac{3}{2}00'25	-4°50'23 4°48'26 0.54714 AU 22°01'16 1°39'46 1°39'58
min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	9022 Sep 28 19:36 9022 Oct 01 11:12 9022 Oct 02 23:14 9022 Oct 09 18:14 9022 Oct 11 12:30 9022 Oct 11 09:57 9022 Oct 19 22:41 9022 Oct 22 21:04 9022 Nov 02 15:51 9022 Nov 06 01:56 9022 Nov 08 23:28 9022 Nov 21 09:39 9022 Nov 23 03:08 9022 Nov 28 22:21 9022 Nov 29 00:22 9022 Dec 04 05:14 9022 Dec 08 06:11 9022 Dec 13 08:12 9022 Dec 26 15:04 9023 Jan 12 15:54	30°R № 29° № 37'58 26° № 28'07 25° № 26'09 25° № 29'53 21° № 34'25 21° № 13'39 26° № 17'42 0° № 3° № 52'37 26° № 26'01 0° ৵ 11° ৵ 56'57 12° ৵ 07'10 22° ৵ 24'48 29° ৵ 42'02 0° ♂ 9° ♂ 01'00 0° ≈ 21° ≈ 07'43	-5°36'06 5°35'52 20°28'00 1°32'25 1°32'31	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.	9023 Aug 07 15:38 9023 Aug 24 13:23 9023 Aug 27 23:36 9023 Sep 03 06:36 9023 Sep 09 10:03 9023 Sep 12 03:59 9023 Sep 12 07:13 9023 Sep 20 22:16 9023 Sep 20 22:16 9023 Sep 21 07:13 9023 Sep 21 02:18 9023 Sep 21 02:18 9023 Sep 21 17:41 9023 Oct 03 07:21 9023 Oct 15 14:21 9023 Oct 26 20:27 9023 Oct 31 06:20 9023 Nov 05 19:45 9023 Nov 12 22:50 9023 Nov 12 23:34 9023 Nov 14 16:40 9023 Nov 16 18:55 9023 Nov 21 04:15 9023 Nov 30 05:14	0° № 31'19 0° № 3° № 47'58 8° № 27'54 9° № 58'20 9° № 41'18 5° № 43'01 5° № 55'31 5° № 49'53 1° № 26'04 7° № 15'01 22° № 03'40 0° № 11° № 13'16 26° № 24'55 0° ₹ 4° ₹ 18'23 13° ₹ 00'25 29° ₹ 21'53	-4°50'23 4°48'26 0.54714 AU 22°01'16 1°39'46 1°39'58
min. Earth dist. inferior conj minimum elong 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	9022 Sep 28 19:36 9022 Oct 01 11:12 9022 Oct 02 23:14 9022 Oct 09 18:14 9022 Oct 11 12:30 9022 Oct 11 09:57 9022 Oct 19 22:41 9022 Oct 22 21:04 9022 Nov 02 15:51 9022 Nov 06 01:56 9022 Nov 08 23:28 9022 Nov 21 09:39 9022 Nov 23 03:08 9022 Nov 28 22:21 9022 Nov 29 00:22 9022 Dec 04 05:14 9022 Dec 08 06:11 9022 Dec 13 08:12 9022 Dec 26 15:04 9023 Jan 12 15:54 9023 Jan 25 06:46	30°R № 29° № 37'58 26° № 26'09 25° № 29'53 21° № 34'25 21° № 13'39 26° № 17'42 0° № 3° № 52'37 26° № 26'01 0° ৵ 11° ৵ 56'57 12° ৵ 07'10 22° ৵ 24'48 29° ৵ 42'02 0° ♂ 9° ♂ 01'00 0° ≈ 21° ≈ 07'43 28° ≈ 18'49	-5°36'06 5°35'52 20°28'00 1°32'25 1°32'31 1.36300 AU	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	9023 Aug 07 15:38 9023 Aug 24 13:23 9023 Aug 27 23:36 9023 Sep 03 06:36 9023 Sep 09 10:03 9023 Sep 12 03:59 9023 Sep 21 07:13 9023 Sep 20 22:16 9023 Sep 20 22:16 9023 Sep 21 02:18 9023 Sep 21 02:18 9023 Sep 21 17:41 9023 Oct 03 07:21 9023 Oct 15 14:21 9023 Oct 26 20:27 9023 Oct 31 06:20 9023 Nov 05 19:45 9023 Nov 12 22:50 9023 Nov 12 23:34 9023 Nov 14 16:40 9023 Nov 16 18:55 9023 Nov 21 04:15 9023 Nov 30 05:14 9023 Nov 30 14:16	0°M31'19 0°Ω 3°Ω47'58 8°Ω27'54 9°Ω58'20 9°Ω41'18 5°Ω43'01 5°Ω55'31 5°Ω49'53 1°Ω53'54 1°Ω26'04 7°Ω15'01 22°Ω03'40 0°M 11°M13'16 26°M21'04 26°M221'04 26°M224'55 0° √ 4°√18'23 13°√00'25 29°√221'53 0°♂	-4°50'23 4°48'26 0.54714 AU 22°01'16 1°39'46 1°39'58
min. Earth dist. inferior conj minimum elong 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	9022 Sep 28 19:36 9022 Oct 01 11:12 9022 Oct 02 23:14 9022 Oct 09 18:14 9022 Oct 11 12:30 9022 Oct 11 09:57 9022 Oct 19 22:41 9022 Oct 22 21:04 9022 Nov 02 15:51 9022 Nov 06 01:56 9022 Nov 08 23:28 9022 Nov 21 09:39 9022 Nov 23 03:08 9022 Nov 28 22:21 9022 Nov 29 00:22 9022 Dec 04 05:14 9022 Dec 08 06:11 9022 Dec 13 08:12 9022 Dec 26 15:04 9023 Jan 12 15:54 9023 Jan 25 06:46 9023 Jan 31 09:57	30°R № 29° № 37'58 26° № 26'09 25° № 29'53 21° № 34'25 21° № 13'39 26° № 17'42 0° № 3° № 52'37 26° № 26'01 0° ※ 11° ※ 56'57 12° ※ 07'10 22° ※ 24'48 29° ※ 42'02 0° % 9° ♂ 01'00 0° ≈ 21° ≈ 07'43 28° ≈ 18'49 25° ≈ 48'48	-5°36'06 5°35'52 20°28'00 1°32'25 1°32'31 1.36300 AU 26°01'36	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	9023 Aug 07 15:38 9023 Aug 24 13:23 9023 Aug 27 23:36 9023 Sep 03 06:36 9023 Sep 09 10:03 9023 Sep 12 03:59 9023 Sep 21 07:13 9023 Sep 20 22:16 9023 Sep 20 22:16 9023 Sep 21 02:18 9023 Sep 21 02:18 9023 Sep 21 02:18 9023 Oct 03 07:21 9023 Oct 15 14:21 9023 Oct 26 20:27 9023 Oct 31 06:20 9023 Nov 05 19:45 9023 Nov 12 22:50 9023 Nov 12 23:34 9023 Nov 14 16:40 9023 Nov 16 18:55 9023 Nov 21 04:15 9023 Nov 30 05:14 9023 Nov 30 14:16 9023 Dec 21 15:37	0°M31'19 0°Ω 3°Ω47'58 8°Ω27'54 9°Ω58'20 9°Ω41'18 5°Ω43'01 5°Ω55'31 5°Ω49'53 1°Ω53'54 1°Ω26'04 7°Ω15'01 22°Ω03'40 0°M 11°M13'16 26°M21'04 26°M22'55 0° 4° 4° 4° 4° 4° 4° 4° 4° 50'25 29° 4° 50'30'25 29° 50'80	-4°50'23 4°48'26 0.54714 AU 22°01'16 1°39'46 1°39'58 1.34494 AU
min. Earth dist. inferior conj minimum elong 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.	9022 Sep 28 19:36 9022 Oct 01 11:12 9022 Oct 02 23:14 9022 Oct 09 18:14 9022 Oct 11 12:30 9022 Oct 11 09:57 9022 Oct 19 22:41 9022 Oct 22 21:04 9022 Nov 02 15:51 9022 Nov 06 01:56 9022 Nov 08 23:28 9022 Nov 21 09:39 9022 Nov 23 03:08 9022 Nov 28 22:21 9022 Nov 29 00:22 9022 Dec 04 05:14 9022 Dec 08 06:11 9022 Dec 08 06:11 9022 Dec 13 08:12 9022 Dec 26 15:04 9023 Jan 12 15:54 9023 Jan 25 06:46 9023 Jan 31 09:57 9023 Feb 04 15:49	30°R Ω 29° Ω37'58 26° Ω28'07 25° Ω26'09 25° Ω29'53 21° Ω34'25 21° Ω13'39 26° Ω17'42 0° M 3° M 52'37 26° M 26'01 0° ズ 11° ズ 56'57 12° ズ 07'10 22° ズ 24'48 29° ズ 42'02 0° ℧ 9° ℧ 01'00 0° ≈ 21° ≈ 07'43 28° ≈ 18'49 25° ≈ 48'48 21° ≈ 18'19	-5°36'06 5°35'52 20°28'00 1°32'25 1°32'31 1.36300 AU	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	9023 Aug 07 15:38 9023 Aug 24 13:23 9023 Aug 27 23:36 9023 Sep 03 06:36 9023 Sep 09 10:03 9023 Sep 12 03:59 9023 Sep 12 07:13 9023 Sep 20 22:16 9023 Sep 20 22:16 9023 Sep 21 07:13 9023 Sep 21 02:18 9023 Sep 21 02:18 9023 Sep 21 02:18 9023 Oct 03 07:21 9023 Oct 15 14:21 9023 Oct 26 20:27 9023 Oct 31 06:20 9023 Nov 05 19:45 9023 Nov 12 22:50 9023 Nov 12 22:50 9023 Nov 14 16:40 9023 Nov 16 18:55 9023 Nov 21 04:15 9023 Nov 30 05:14 9023 Nov 30 14:16 9023 Dec 21 15:37 9023 Dec 26 05:22	0°M31'19 0°Ω 3°Ω47'58 8°Ω27'54 9°Ω58'20 9°Ω41'18 5°Ω43'01 5°Ω55'31 5°Ω49'53 1°Ω53'54 1°Ω26'04 7°Ω15'01 22°Ω03'40 0°M 11°M13'16 26°M21'04 26°M22'55 0° 4° 4° 4° 4° 4° 4° 518'23 13° 4°00'25 29° 4° 21'53 0° 50 0° 80 4° 848'50	-4°50'23 4°48'26 0.54714 AU 22°01'16 1°39'46 1°39'58
min. Earth dist. inferior conj minimum elong 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. asc. node	9022 Sep 28 19:36 9022 Oct 01 11:12 9022 Oct 02 23:14 9022 Oct 09 18:14 9022 Oct 11 12:30 9022 Oct 11 09:57 9022 Oct 19 22:41 9022 Oct 22 21:04 9022 Nov 02 15:51 9022 Nov 06 01:56 9022 Nov 08 23:28 9022 Nov 21 09:39 9022 Nov 23 03:08 9022 Nov 28 22:21 9022 Nov 29 00:22 9022 Dec 04 05:14 9022 Dec 08 06:11 9022 Dec 08 06:11 9022 Dec 13 08:12 9022 Dec 26 15:04 9023 Jan 12 15:54 9023 Jan 25 06:46 9023 Jan 31 09:57 9023 Feb 04 15:49 9023 Feb 04 22:39	30°R Ω 29° Ω37'58 26° Ω28'07 25° Ω26'09 25° Ω29'53 21° Ω34'25 21° Ω13'39 26° Ω17'42 0° M 3° M 52'37 26° M 26'01 0° ¾ 11° ¾ 56'57 12° ¾ 07'10 22° ¾ 24'48 29° ¾ 42'02 0° ♂ 9° ♂ 01'00 0° ≈ 21° ≈ 07'43 28° ≈ 18'49 25° ≈ 48'48 21° ≈ 18'19 20° ≈ 57'14	-5°36'06 5°35'52 20°28'00 1°32'25 1°32'31 1.36300 AU 26°01'36 0.66983 AU	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	9023 Aug 07 15:38 9023 Aug 24 13:23 9023 Aug 27 23:36 9023 Sep 03 06:36 9023 Sep 09 10:03 9023 Sep 12 03:59 9023 Sep 21 07:13 9023 Sep 20 22:16 9023 Sep 21 02:18 9023 Oct 03 07:21 9023 Oct 15 14:21 9023 Oct 26 20:27 9023 Oct 31 06:20 9023 Nov 05 19:45 9023 Nov 12 22:50 9023 Nov 12 22:50 9023 Nov 14 16:40 9023 Nov 16 18:55 9023 Nov 17 04:15 9023 Nov 18 10:46 9023 Nov 19 11:37 9023 Dec 21 15:37 9023 Dec 26 05:22 9024 Jan 08 10:46	0° m/31'19 0° Ω 3° Ω47'58 8° Ω27'54 9° Ω58'20 9° Ω41'18 5° Ω43'01 5° Ω55'31 5° Ω49'53 1° Ω53'54 1° Ω26'04 7° Ω15'01 22° Ω03'40 0° m 11° m.13'16 26° m.21'04 26° m.24'55 0° ズ 4° ズ 18'23 13° ズ 00'25 29° ズ 21'53 0° ズ 0° ※ 4° ≈48'50 12° ≈08'31	-4°50'23 4°48'26 0.54714 AU 22°01'16 1°39'46 1°39'58 1.34494 AU
min. Earth dist. inferior conj minimum elong 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.	9022 Sep 28 19:36 9022 Oct 01 11:12 9022 Oct 02 23:14 9022 Oct 09 18:14 9022 Oct 11 12:30 9022 Oct 11 09:57 9022 Oct 19 22:41 9022 Oct 22 21:04 9022 Nov 02 15:51 9022 Nov 06 01:56 9022 Nov 08 23:28 9022 Nov 21 09:39 9022 Nov 23 03:08 9022 Nov 28 22:21 9022 Nov 29 00:22 9022 Dec 04 05:14 9022 Dec 08 06:11 9022 Dec 08 06:11 9022 Dec 13 08:12 9022 Dec 26 15:04 9023 Jan 12 15:54 9023 Jan 25 06:46 9023 Jan 31 09:57 9023 Feb 04 15:49	30°R Ω 29° Ω37'58 26° Ω28'07 25° Ω26'09 25° Ω29'53 21° Ω34'25 21° Ω13'39 26° Ω17'42 0° M 3° M 52'37 26° M 26'01 0° ズ 11° ズ 56'57 12° ズ 07'10 22° ズ 24'48 29° ズ 42'02 0° ℧ 9° ℧ 01'00 0° ≈ 21° ≈ 07'43 28° ≈ 18'49 25° ≈ 48'48 21° ≈ 18'19	-5°36'06 5°35'52 20°28'00 1°32'25 1°32'31 1.36300 AU 26°01'36 0.66983 AU 0°24'50	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	9023 Aug 07 15:38 9023 Aug 24 13:23 9023 Aug 27 23:36 9023 Sep 03 06:36 9023 Sep 09 10:03 9023 Sep 12 03:59 9023 Sep 12 07:13 9023 Sep 20 22:16 9023 Sep 20 22:16 9023 Sep 21 07:13 9023 Sep 21 02:18 9023 Sep 21 02:18 9023 Sep 21 02:18 9023 Oct 03 07:21 9023 Oct 15 14:21 9023 Oct 26 20:27 9023 Oct 31 06:20 9023 Nov 05 19:45 9023 Nov 12 22:50 9023 Nov 12 22:50 9023 Nov 14 16:40 9023 Nov 16 18:55 9023 Nov 21 04:15 9023 Nov 30 05:14 9023 Nov 30 14:16 9023 Dec 21 15:37 9023 Dec 26 05:22	0°M31'19 0°Ω 3°Ω47'58 8°Ω27'54 9°Ω58'20 9°Ω41'18 5°Ω43'01 5°Ω55'31 5°Ω49'53 1°Ω53'54 1°Ω26'04 7°Ω15'01 22°Ω03'40 0°M 11°M13'16 26°M21'04 26°M22'55 0° 4° 4° 4° 4° 4° 4° 518'23 13° 4°00'25 29° 4° 21'53 0° 50 0° 80 4° 848'50	-4°50'23 4°48'26 0.54714 AU 22°01'16 1°39'46 1°39'58 1.34494 AU

inforior coni	9024 Jan 21 01:50	3°≈17'13	0025102	inforior coni	0025 Ion 02 14:27	16° る 57'59	1941146
inferior conj				inferior conj	9025 Jan 03 14:27		
minimum elong	9024 Jan 21 02:51	3°≈14'20	0°34'24	minimum elong	9025 Jan 03 17:38	16° る 49'40	1°40'12
asc. node	9024 Jan 22 19:46	1° ≈ 19'19		asc. node	9025 Jan 08 16:50	12° る 24'14	
	9024 Jan 24 02:49	30°₽₹		morning rise	9025 Jan 10 05:52	11° る 35'31	
morning rise	9024 Jan 27 05:40	27° る 40'13		direct	9025 Jan 12 17:16	11° る 04'40	
direct	9024 Jan 30 00:43	26° る 57'34		morning max el	9025 Jan 19 04:25	14° る 26'33	17°50'51
	9024 Feb 05 01:41	0° ≈			9025 Jan 30 03:28	0° ≈	
morning max el	9024 Feb 05 11:13	0°≈22'56	18°10'27	morning set	9025 Feb 05 00:49	9° ≈ 56'13	
morning set	9024 Feb 24 06:23	28° ≈ 02'40		desc. node	9025 Feb 12 01:43	21° ≈ 46′24	
8	9024 Feb 25 11:22	0°) €			9025 Feb 17 01:57	0°) €	
desc. node	9024 Feb 26 04:48	1° ₩ 10'28			7023100 17 01.57	٠ , ,	
desc. node	7024160 20 04.40	1 /(1020		superior conj	9025 Feb 18 03:42	1° ¥ 44'22	0042122
	0024 M 10 07 47	2201/05/22	1026117				
superior conj	9024 Mar 10 07:47	22° ₭ 05'33		minimum elong	9025 Feb 17 22:50	1°)(24'41	0°42'42
minimum elong	9024 Mar 09 22:34	21° 米 29′19		max. Earth dist.	9025 Feb 23 08:45	10° 米 04'19	1.44885 AU
max. Earth dist.	9024 Mar 12 13:15	25° ∺ 35'18	1.45520 AU	evening rise	9025 Mar 05 23:29	26° ∺ 35'48	
	9024 Mar 15 08:56	$\mathbf{\gamma}_{\circ}$			9025 Mar 08 04:52	0° Y	
evening rise	9024 Mar 26 10:48	17° Ƴ 14'48			9025 Mar 28 20:12	0°B	
	9024 Apr 03 16:17	$6^{\circ}B$		evening max el	9025 Apr 02 15:23	5° ႘ 35′08	20°18'55
greatest brilliancy	9024 Apr 07 12:53	5° 8 53'19	-0.7m	asc. node	9025 Apr 06 15:32	8° 8 54'57	
evening max el	9024 Apr 19 12:22	21° 8 55'33	19°20'56	retrograde	9025 Apr 10 12:48	10° 8 10'24	
asc. node	9024 Apr 19 18:27	22° 8 10'44		evening set	9025 Apr 14 11:12	8° 8 41'04	
retrograde	9024 Apr 26 14:15	25° 8 55'44		inferior conj		2° 8 36'01	3°11'37
Č		_			9025 Apr 19 18:49	• • • • •	
evening set	9024 Apr 30 03:44	24° 8 41'41		minimum elong	9025 Apr 19 17:30	2° 8 40'32	
inferior conj	9024 May 05 14:07	18° 8 50'14	3°21'05	min. Earth dist.	9025 Apr 20 13:01	_	0.67778 AU
minimum elong	9024 May 05 13:48	18° 8 51'17	3°20'53		9025 Apr 21 17:09	30° ₹Ƴ	
min. Earth dist.	9024 May 06 22:35	17° 8 04'20	0.66755 AU	morning rise	9025 Apr 24 23:35	26° Ƴ 19'01	
morning rise	9024 May 10 23:29	12° 8 31'26		direct	9025 Apr 30 15:25	23° Y 47'43	
direct	9024 May 17 03:37	9° 8 48'15		desc. node	9025 May 11 01:42	29° Y '39'21	
desc. node	9024 May 24 04:44	12° 8 31'20			9025 May 11 10:12	0°8	
morning max el	9024 May 29 16:00	17° 8 17'04	25°54'41	morning max el	9025 May 12 01:24	0° ႘ 37'55	24°30'36
	9024 Jun 09 06:31	0°П			9025 Jun 03 04:40	0°Щ	
	9024 Jun 28 19:02	0°©		morning set	9025 Jun 16 20:58	22° I I25'03	
morning set	9024 Jul 04 18:18	10°937'26		max. Earth dist.	9025 Jun 20 12:12	28° I 53'31	1.37565 AU
=			1 25400 444	max. Earth dist.			1.37303 AU
max. Earth dist.	9024 Jul 08 13:28	17° © 45'55	1.35490 AU		9025 Jun 21 02:50	0	
superior conj	9024 Jul 14 02:49	28° © 43'56		superior conj	9025 Jun 27 09:57	11° © 50'11	
minimum elong	9024 Jul 14 04:21	28° © 51'41	0°25'41	minimum elong	9025 Jun 27 13:37	12° © 07'55	0°57'42
	9024 Jul 14 17:49	$0^{\circ}\Omega$		asc. node	9025 Jul 03 14:33	24° © 02'31	
asc. node	9024 Jul 16 17:34	4° Ω 04'14		evening rise	9025 Jul 06 01:08	28° © 54'45	
evening rise	9024 Jul 21 23:10	14° £ 52'39			9025 Jul 06 14:16	$0^{\circ}\Omega$	
	9024 Jul 29 17:38	0° mp		evening max el	9025 Jul 22 17:37	26° Ω 08'07	19°14'48
evening max el	9024 Aug 09 01:56	14° m 35'29	20°18'42	Č	9025 Jul 28 07:53	0° m)	
retrograde	9024 Aug 19 22:32	19° m 58'02		retrograde	9025 Jul 31 21:56	0° m/40'59	
desc. node	9024 Aug 20 03:42	19° m) 57'55		evening set	9025 Aug 02 18:41	0° mp 30'31	
	•			evening set		30°RΩ	
evening set	9024 Aug 21 21:58	19° mp 48'07	201.4150		9025 Aug 04 15:56		
inferior conj	9024 Aug 31 00:54	15° m 50'19		desc. node	9025 Aug 07 00:49	28° Ω 57'33	
minimum elong	9024 Aug 30 16:20	16° My 02'52	3°12'08	inferior conj	9025 Aug 11 07:39	26° Ω 20′26	
min. Earth dist.	9024 Sep 01 11:44	14° m y 59'15	0.54875 AU	minimum elong	9025 Aug 11 04:09	26° Ω 26′16	
morning rise	9024 Sep 08 09:53	11° m 43'25		min. Earth dist.	9025 Aug 14 00:43	24° Ω 32'30	0.55956 AU
direct	9024 Sep 12 17:00	11° m 03'40		morning rise	9025 Aug 19 10:44	21° Ω 39′09	
morning max el	9024 Sep 26 04:07	17° m 36'28	23°46'50	11.		_	
•	9024 SCP 20 04.07	1/ 11/2020		direct	9025 Aug 24 13:22	20° Ω 39'14	
	-		23 1030		9025 Aug 24 13:22 9025 Sep 07 16:35		25°29'41
asc node	9024 Oct 06 05:49	0∘ ⊽	23 1030	morning max el	9025 Sep 07 16:35	27° Ω 49'23	25°29'41
asc. node	9024 Oct 06 05:49 9024 Oct 12 17:24	0° ჲ 10° ჲ 53'06	23 1030	morning max el	9025 Sep 07 16:35 9025 Sep 09 20:17	27° Ω 49'23 0° m	25°29'41
asc. node morning set	9024 Oct 06 05:49 9024 Oct 12 17:24 9024 Oct 20 07:25	0° ჲ 10° ჲ 53'06 26° ჲ 03'03	23 1030		9025 Sep 07 16:35 9025 Sep 09 20:17 9025 Sep 29 14:20	27° Ω 49'23 0° m 0° Ω 10'36	25°29'41
	9024 Oct 06 05:49 9024 Oct 12 17:24	0° ჲ 10° ჲ 53'06	23 1030	morning max el asc. node	9025 Sep 07 16:35 9025 Sep 09 20:17 9025 Sep 29 14:20 9025 Sep 29 12:10	27° Q 49'23 0° M 0° Ω 10'36 0° Ω	25°29'41
morning set	9024 Oct 06 05:49 9024 Oct 12 17:24 9024 Oct 20 07:25 9024 Oct 22 03:37	0° 亞 10° 亞 53'06 26° 亞 03'03 0°ጤ		morning max el	9025 Sep 07 16:35 9025 Sep 09 20:17 9025 Sep 29 14:20	27° Ω 49'23 0° m 0° Ω 10'36	25°29'41
morning set	9024 Oct 06 05:49 9024 Oct 12 17:24 9024 Oct 20 07:25 9024 Oct 22 03:37 9024 Oct 27 05:19	0°	1°40'23	morning max el asc. node morning set	9025 Sep 07 16:35 9025 Sep 09 20:17 9025 Sep 29 14:20 9025 Sep 29 12:10 9025 Oct 04 18:53	27° Ω 49'23 0° m 0° Ω 10'36 0° Ω 10° Ω 49'34	
morning set superior conj minimum elong	9024 Oct 06 05:49 9024 Oct 12 17:24 9024 Oct 20 07:25 9024 Oct 22 03:37	0°	1°40'23 1°40'32	morning max el asc. node morning set superior conj	9025 Sep 07 16:35 9025 Sep 09 20:17 9025 Sep 29 14:20 9025 Sep 29 12:10 9025 Oct 04 18:53 9025 Oct 11 15:23	27° N 49'23 0° M 0° \overline{10}'36 0° \overline{1} 10° \overline{1}49'34 25° \overline{1}49'09	1°34'56
morning set	9024 Oct 06 05:49 9024 Oct 12 17:24 9024 Oct 20 07:25 9024 Oct 22 03:37 9024 Oct 27 05:19	0°	1°40'23	morning max el asc. node morning set	9025 Sep 07 16:35 9025 Sep 09 20:17 9025 Sep 29 14:20 9025 Sep 29 12:10 9025 Oct 04 18:53	27° Ω 49'23 0° m 0° Ω 10'36 0° Ω 10° Ω 49'34	
morning set superior conj minimum elong	9024 Oct 06 05:49 9024 Oct 12 17:24 9024 Oct 20 07:25 9024 Oct 22 03:37 9024 Oct 27 05:19 9024 Oct 27 04:50	0°	1°40'23 1°40'32	morning max el asc. node morning set superior conj	9025 Sep 07 16:35 9025 Sep 09 20:17 9025 Sep 29 14:20 9025 Sep 29 12:10 9025 Oct 04 18:53 9025 Oct 11 15:23	27° N 49'23 0° M 0° \overline{10}'36 0° \overline{1} 10° \overline{1}49'34 25° \overline{1}49'09	1°34'56
superior conj minimum elong max. Earth dist.	9024 Oct 06 05:49 9024 Oct 12 17:24 9024 Oct 20 07:25 9024 Oct 22 03:37 9024 Oct 27 05:19 9024 Oct 27 04:50 9024 Oct 29 16:54	0° <u>Ω</u> 10° <u>Ω</u> 53'06 26° <u>Ω</u> 03'03 0° M 11° M 01'11 10° M 58'34 16° M 21'22	1°40'23 1°40'32	morning max el asc. node morning set superior conj minimum elong	9025 Sep 07 16:35 9025 Sep 09 20:17 9025 Sep 29 14:20 9025 Sep 29 12:10 9025 Oct 04 18:53 9025 Oct 11 15:23 9025 Oct 11 13:56	27° \$\alpha 49'23 0° \$\mathbf{m}\$ 0° \overline{\Omega} 10'36 0° \overline{\Omega} 10'\overline{\Omega} 49'34 25° \overline{\Omega} 49'09 25° \overline{\Omega} 41'09	1°34'56 1°34'55
superior conj minimum elong max. Earth dist.	9024 Oct 06 05:49 9024 Oct 12 17:24 9024 Oct 20 07:25 9024 Oct 22 03:37 9024 Oct 27 05:19 9024 Oct 27 04:50 9024 Oct 29 16:54 9024 Nov 03 18:26	0° <u>Ω</u> 10° <u>Ω</u> 53'06 26° <u>Ω</u> 03'03 0° M 11° M 01'11 10° M 58'34 16° M 21'22 26° M 51'03	1°40'23 1°40'32	morning max el asc. node morning set superior conj minimum elong max. Earth dist.	9025 Sep 07 16:35 9025 Sep 09 20:17 9025 Sep 29 14:20 9025 Sep 29 12:10 9025 Oct 04 18:53 9025 Oct 11 15:23 9025 Oct 11 13:56 9025 Oct 12 21:50	27° \$\alpha 49'23 0° \$\mathbf{m}\$ 0° \odols 10'36 0° \odols 10° \odols 49'34 25° \odols 49'09 25° \odols 41'09 28° \odols 36'40	1°34'56 1°34'55
superior conj minimum elong max. Earth dist. evening rise	9024 Oct 06 05:49 9024 Oct 12 17:24 9024 Oct 20 07:25 9024 Oct 22 03:37 9024 Oct 27 05:19 9024 Oct 27 04:50 9024 Oct 29 16:54 9024 Nov 03 18:26 9024 Nov 05 08:29 9024 Nov 16 02:17	0° <u>Ω</u> 10° <u>Ω</u> 53'06 26° <u>Ω</u> 03'03 0° M 11° M 01'11 10° M 58'34 16° M 21'22 26° M 51'03 0° ズ 19° ズ 24'20	1°40'23 1°40'32	morning max el asc. node morning set superior conj minimum elong	9025 Sep 07 16:35 9025 Sep 09 20:17 9025 Sep 29 14:20 9025 Sep 29 12:10 9025 Oct 04 18:53 9025 Oct 11 15:23 9025 Oct 11 13:56 9025 Oct 12 21:50 9025 Oct 13 13:03 9025 Oct 18 17:31	27° \$\alpha 49'23 0° \$\mathbf{m}\$ 0° \$\Lambda 10'36 0° \$\Lambda \text{10'} \Lambda 49'34 25° \$\Lambda 49'09 25° \$\Lambda 41'09 28° \$\Lambda 36'40 0° \$\mathbf{m}\$ 11° \$\mathbf{m}\$ 04'34	1°34'56 1°34'55
superior conj minimum elong max. Earth dist. evening rise desc. node	9024 Oct 06 05:49 9024 Oct 12 17:24 9024 Oct 20 07:25 9024 Oct 22 03:37 9024 Oct 27 05:19 9024 Oct 27 04:50 9024 Oct 29 16:54 9024 Nov 03 18:26 9024 Nov 05 08:29 9024 Nov 16 02:17 9024 Nov 22 21:43	0°五 10°至53'06 26°至03'03 0°肌 11°肌01'11 10°肌58'34 16°肌21'22 26°肌51'03 0°ズ 19°ズ24'20	1°40'23 1°40'32 1.33088 AU	morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	9025 Sep 07 16:35 9025 Sep 09 20:17 9025 Sep 29 14:20 9025 Sep 29 12:10 9025 Oct 04 18:53 9025 Oct 11 15:23 9025 Oct 11 13:56 9025 Oct 12 21:50 9025 Oct 13 13:03 9025 Oct 18 17:31 9025 Oct 28 14:09	27° \$\alpha 49'23 0° \$\mathbf{m}\) 0° \$\oldsymbol{\Omega}\$ 10'36 0° \$\oldsymbol{\Omega}\$ 10° \$\oldsymbol{\Omega}\$ 49'34 25° \$\oldsymbol{\Omega}\$ 49'09 25° \$\oldsymbol{\Omega}\$ 41'09 28° \$\oldsymbol{\Omega}\$ 36'40 0° \$\mathbf{m}\] 11° \$\mathbf{m}\$ 04'34 0° \$\nalpha\$	1°34'56 1°34'55
superior conj minimum elong max. Earth dist. evening rise desc. node	9024 Oct 06 05:49 9024 Oct 12 17:24 9024 Oct 20 07:25 9024 Oct 22 03:37 9024 Oct 27 05:19 9024 Oct 27 04:50 9024 Oct 29 16:54 9024 Nov 03 18:26 9024 Nov 05 08:29 9024 Nov 16 02:17 9024 Nov 22 21:43 9024 Dec 07 17:55	0° Ω 10° Ω 53'06 26° Ω 03'03 0° M 11° M 01'11 10° M 58'34 16° M 21'22 26° M 51'03 0° ズ 19° ズ 24'20 0° ℧ 18° ℧ 12'04	1°40'23 1°40'32 1.33088 AU	morning max el asc. node morning set superior conj minimum elong max. Earth dist.	9025 Sep 07 16:35 9025 Sep 09 20:17 9025 Sep 29 14:20 9025 Sep 29 12:10 9025 Oct 04 18:53 9025 Oct 11 13:56 9025 Oct 11 13:56 9025 Oct 12 21:50 9025 Oct 13 13:03 9025 Oct 18 17:31 9025 Oct 28 14:09 9025 Nov 02 23:21	27° \$\alpha 49'23 0° \$\mathbf{m}\$ 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 10° \$\mathbf{n} 49'34 25° \$\mathbf{n} 49'09 25° \$\mathbf{n} 41'09 28° \$\mathbf{n} 36'40 0° \$\mathbf{m}\$ 11° \$\mathbf{m} 04'34 0° \$\nalpha\$ 8° \$\nalpha\$ 59'40	1°34'56 1°34'55
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	9024 Oct 06 05:49 9024 Oct 12 17:24 9024 Oct 20 07:25 9024 Oct 22 03:37 9024 Oct 27 05:19 9024 Oct 27 04:50 9024 Oct 29 16:54 9024 Nov 03 18:26 9024 Nov 05 08:29 9024 Nov 16 02:17 9024 Nov 22 21:43 9024 Dec 07 17:55 9024 Dec 21 08:21	0°요 10°£53'06 26°£03'03 0°M 11°M01'11 10°M58'34 16°M21'22 26°M51'03 0°ズ 19°ズ24'20 0°उ 18°उ12'04 25°♂32'09	1°40'23 1°40'32 1.33088 AU	morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	9025 Sep 07 16:35 9025 Sep 09 20:17 9025 Sep 29 14:20 9025 Sep 29 12:10 9025 Oct 04 18:53 9025 Oct 11 15:23 9025 Oct 11 13:56 9025 Oct 12 21:50 9025 Oct 13 13:03 9025 Oct 18 17:31 9025 Oct 28 14:09 9025 Nov 02 23:21 9025 Nov 19 01:16	27° \$\alpha 49'23 0° \$\mathbf{m}\$ 0° \$\oldsymbol{\Omega}\$ 10'36 0° \$\oldsymbol{\Omega}\$ 10° \$\oldsymbol{\Omega}\$ 49'34 25° \$\oldsymbol{\Omega}\$ 49'09 25° \$\oldsymbol{\Omega}\$ 41'09 28° \$\oldsymbol{\Omega}\$ 36'40 0° \$\mathbf{m}\$ 11° \$\mathbf{m}\$ 04'34 0° \$\vec{\sigma}\$ 8° \$\vec{\sigma}\$ 59'40 0° \$\vec{\sigma}\$	1°34'56 1°34'55 1.32134 AU
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	9024 Oct 06 05:49 9024 Oct 12 17:24 9024 Oct 20 07:25 9024 Oct 22 03:37 9024 Oct 27 05:19 9024 Oct 27 04:50 9024 Oct 29 16:54 9024 Nov 03 18:26 9024 Nov 05 08:29 9024 Nov 16 02:17 9024 Nov 22 21:43 9024 Dec 07 17:55 9024 Dec 21 08:21 9024 Dec 28 07:09	0°요 10°£53'06 26°£03'03 0°M 11°M01'11 10°M58'34 16°M21'22 26°M51'03 0°ズ 19°ズ24'20 0°उ 18°उ12'04 25°उ32'09 22°उ58'46	1°40'23 1°40'32 1.33088 AU 27°25'21	morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	9025 Sep 07 16:35 9025 Sep 09 20:17 9025 Sep 29 14:20 9025 Sep 29 12:10 9025 Oct 04 18:53 9025 Oct 11 15:23 9025 Oct 11 13:56 9025 Oct 12 21:50 9025 Oct 13 13:03 9025 Oct 18 17:31 9025 Oct 28 14:09 9025 Nov 02 23:21 9025 Nov 19 01:16 9025 Nov 20 03:24	27° \$\lambda 49'23 0° \$\mathbf{m}\$ 0° \$\Lambda\$ 10° \$\Lambda 49'34\$ 25° \$\Lambda 49'09\$ 25° \$\Lambda 49'09\$ 28° \$\Lambda 36'40\$ 0° \$\mathbf{m}\$ 11° \$\mathbf{m}\$ 04'34\$ 0° \$\mathbf{m}\$ 8° \$\mathbf{m}\$ 59'40\$ 0° \$\mathbf{m}\$ 1° \$\mathbf{G}\$ 03'25\$	1°34'56 1°34'55 1.32134 AU
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	9024 Oct 06 05:49 9024 Oct 12 17:24 9024 Oct 20 07:25 9024 Oct 22 03:37 9024 Oct 27 05:19 9024 Oct 27 04:50 9024 Oct 29 16:54 9024 Nov 03 18:26 9024 Nov 05 08:29 9024 Nov 16 02:17 9024 Nov 22 21:43 9024 Dec 07 17:55 9024 Dec 21 08:21	0°요 10°£53'06 26°£03'03 0°M 11°M01'11 10°M58'34 16°M21'22 26°M51'03 0°ズ 19°ズ24'20 0°उ 18°उ12'04 25°♂32'09	1°40'23 1°40'32 1.33088 AU 27°25'21	morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	9025 Sep 07 16:35 9025 Sep 09 20:17 9025 Sep 29 14:20 9025 Sep 29 12:10 9025 Oct 04 18:53 9025 Oct 11 15:23 9025 Oct 11 13:56 9025 Oct 12 21:50 9025 Oct 13 13:03 9025 Oct 18 17:31 9025 Oct 28 14:09 9025 Nov 02 23:21 9025 Nov 19 01:16	27° \$\alpha 49'23 0° \$\mathbf{m}\$ 0° \$\oldsymbol{\Omega}\$ 10'36 0° \$\oldsymbol{\Omega}\$ 10° \$\oldsymbol{\Omega}\$ 49'34 25° \$\oldsymbol{\Omega}\$ 49'09 25° \$\oldsymbol{\Omega}\$ 41'09 28° \$\oldsymbol{\Omega}\$ 36'40 0° \$\mathbf{m}\$ 11° \$\mathbf{m}\$ 04'34 0° \$\vec{\sigma}\$ 8° \$\vec{\sigma}\$ 59'40 0° \$\vec{\sigma}\$	1°34'56 1°34'55 1.32134 AU

	9025 Dec 11 00:53	5° る 56'33			0026 N 16 05-20	20° ₹ 21'07	
evening set			0.62229 ATT	retrograde	9026 Nov 16 05:28		
min. Earth dist.	9025 Dec 14 17:21		0.62238 AU	evening set	9026 Nov 23 02:28	18° ₹ 19'42	0.60167.177
inferior conj	9025 Dec 17 15:38	0°る16'59		min. Earth dist.	9026 Nov 26 21:50	15° ∡ 41′21	0.60165 AU
minimum elong	9025 Dec 17 21:13	0° る 03'56	2°50'39	inferior conj	9026 Nov 30 02:01	13° ≯ 05'42	
	9025 Dec 17 22:55	30°₹ ҂ 7		minimum elong	9026 Nov 30 09:22	12° ≯ 50'37	4°01'09
morning rise	9025 Dec 24 19:49	25° ∡ 12'15		morning rise	9026 Dec 07 18:47	8° ∡ 21'33	
asc. node	9025 Dec 26 13:53	24° ≯ ′50′43		direct	9026 Dec 09 23:03	8° ₮ 03'30	
direct	9025 Dec 27 02:00	24° √ 49'34		asc. node	9026 Dec 13 10:55	8° ∡ 752'17	
morning max el	9026 Jan 02 21:23	28° ∡ 17′26	17°49'00	morning max el	9026 Dec 17 10:39	11° ∡ ¹46′23	18°06'00
	9026 Jan 04 11:27	8°0			9026 Dec 29 13:18	8°0	
morning set	9026 Jan 18 17:39	22° る 53'21		morning set	9027 Jan 02 02:37	6° る 35'19	
morning set	9026 Jan 22 17:44	0°≈		morning sec	7027 Juli 02 02.37	0 33 17	
	7020 Jan 22 17.44	0 ~		superior conj	9027 Jan 11 20:57	24° る 33'25	0°36'37
:	0026 I 20 24-00	1200 02 4100	0900125				
superior conj	9026 Jan 29 24:00	12°≈34'00		minimum elong	9027 Jan 11 23:38	24° る 45'23	0°36'27
minimum elong	9026 Jan 29 23:59	12° ≈ 33'55	0°00'14		9027 Jan 14 23:01	0° ≈	
behind sun begin	9026 Jan 29 15:12	11° ≈ 56'42		desc. node	9027 Jan 16 19:34	3°≈12'26	
behind sun end	9026 Jan 30 08:45	13° ≈ 11'02		max. Earth dist.	9027 Jan 19 12:05	7° ≈ 45'51	1.41765 AU
desc. node	9026 Jan 29 22:38	12° ≈ 28′12		evening rise	9027 Jan 24 17:57	16° ≈ 22'31	
max. Earth dist.	9026 Feb 06 00:51	24° ≈ 12'30	1.43581 AU		9027 Feb 02 11:47	0° ∀	
	9026 Feb 09 15:37	0°) €			9027 Feb 24 10:58	$0^{\circ}\mathbf{\Upsilon}$	
evening rise	9026 Feb 13 13:19	6° ₩ 07'37		evening max el	9027 Feb 27 05:42	2° Y 58'45	22°47'24
S	9026 Mar 01 12:34	$0^{\circ}\Upsilon$		retrograde	9027 Mar 09 07:17	8° Y 56'32	
evening max el	9026 Mar 16 12:48	19° Υ 15'52	21°20'14	asc. node	9027 Mar 11 09:45	8° Υ 34'35	
asc. node	9026 Mar 24 12:38	24° Y 27'53	21 2) 14		9027 Mar 11 05:49	6°Υ57'13	
				evening set		0° Υ 33'01	2021120
retrograde	9026 Mar 25 11:05	24° Υ 32'18		inferior conj	9027 Mar 19 11:27		2°21'39
evening set	9026 Mar 29 19:26	22° Y 47'46		minimum elong	9027 Mar 19 09:13	0° Y 40'45	2°21'02
inferior conj	9026 Apr 04 02:37	16° Ƴ 31'33	2°51'25	min. Earth dist.	9027 Mar 19 04:22	0° Ƴ 57'34	0.68491 AU
minimum elong	9026 Apr 04 00:38	16° Ƴ 38'26	2°50'57		9027 Mar 19 20:58	30°Ŗ ℋ	
min. Earth dist.	9026 Apr 04 07:43	16° Ƴ 13'48	0.68350 AU	morning rise	9027 Mar 24 15:29	24°) (24′31	
morning rise	9026 Apr 09 05:39	10° Ƴ 18′06		direct	9027 Mar 29 03:57	22° 升 32′50	
direct	9026 Apr 14 07:54	8° Ƴ 04'57		morning max el	9027 Apr 07 00:57	27°) 42′15	21°34'17
morning max el	9026 Apr 24 11:21	14° Ƴ 06'01	23°00'47	-	9027 Apr 09 04:49	$0^{\circ}\mathbf{Y}$	
desc. node	9026 Apr 27 22:39	17° Y 52'51		desc. node	9027 Apr 14 19:34	6° Ƴ 53'18	
	9026 May 07 08:07	0°8			9027 Apr 30 22:19	0°8	
	9026 May 27 02:54	0°II		morning set	9027 May 08 23:36	12° 8 30'27	
morning sat	•	3° П 05'43		max. Earth dist.	•	22° 8 51'51	1.41990 AU
morning set	9026 May 28 23:57		1 20010 ATT	iliax. Eartii dist.	9027 May 15 09:07		1.41990 AU
max. Earth dist.	9026 Jun 02 08:31	10° Ⅱ 27'47	1.39819 AU		9027 May 19 15:23	Π °0	
superior conj	9026 Jun 10 02:00	24° Ⅱ 12'14		superior conj	9027 May 22 22:20	5° ∐ 39'00	
minimum elong	9026 Jun 10 07:33	24° ∏ 37'42	1°28'51	minimum elong	9027 May 23 04:10	6° Ⅱ 04'19	1°55'13
	9026 Jun 13 04:58	0		evening rise	9027 Jun 02 23:26	25° Ⅱ 26'35	
evening rise	9026 Jun 19 18:32	12° © 29'35			9027 Jun 05 11:25	0ಂ ತಾ	
asc. node	9026 Jun 20 11:32	13° © 50'48		asc. node	9027 Jun 07 08:33	3° © 23'41	
	9026 Jun 29 11:01	$0^{\circ}\Omega$		evening max el	9027 Jun 19 06:09	21° © 12'09	18°09'21
evening max el	9026 Jul 05 20:21	8° Ω 23'46	18°31'58	retrograde	9027 Jun 26 03:13	24°5941'12	
retrograde	9026 Jul 13 15:28	12° Ω 17′02		evening set	9027 Jun 28 13:14	24° © 15'53	
evening set	9026 Jul 15 17:45	12° Ω 01'04		inferior conj	9027 Jul 05 12:04	19° © 26'22	1°45'51
inferior conj	9026 Jul 23 11:14	7° Ω 32'05	0°26'00	minimum elong	9027 Jul 05 14:54	19° © 19'56	1°44'43
minimum elong	9026 Jul 23 12:11	7° Ω 30'14	0°25'27	min. Earth dist.	9027 Jul 08 19:57	16°526'31	0.59944 AU
Č		6° Ω 24'09	0 23 27	desc. node	9027 Jul 11 19:02		0.33344 AU
desc. node	9026 Jul 24 21:55		0.57754.411			14°508'54	
min. Earth dist.	9026 Jul 26 18:59		0.57754 AU	morning rise	9027 Jul 12 13:38	13° © 39'07	
morning rise	9026 Jul 31 03:05	2° Ω 13'53		direct	9027 Jul 19 01:01	11° © 39'36	
direct	9026 Aug 06 00:41	0° Ω 45'19		morning max el	9027 Aug 02 09:08	19° © 33'28	27°43'10
morning max el	9026 Aug 20 09:33	8° Ω 22'34	26°52'41		9027 Aug 11 06:27	$0 {\circ} \Omega$	
	9026 Sep 05 17:26	0° Mp			9027 Aug 29 12:50	O° My	
asc. node	9026 Sep 16 11:15	19° m 48'41		morning set	9027 Sep 03 10:39	9° m 53′33	
morning set	9026 Sep 19 04:32	25° mp 28'14		asc. node	9027 Sep 03 08:11	9° ™ 40'41	
C	9026 Sep 21 07:10	0∘ <u>⊽</u>		max. Earth dist.	9027 Sep 09 16:34	23° m 22'54	1.31631 AU
	1					•	
superior conj	9026 Sep 26 03:04	10° £ 39'01	1°23'55	superior conj	9027 Sep 10 14:32	25° m 24'28	1°07'45
minimum elong	9026 Sep 26 01:00		1°23'42	minimum elong	9027 Sep 10 14:32 9027 Sep 10 12:17	25° m) 12'02	
max. Earth dist.		10 = 27 33 11° ⊆ 00'12		minimum clong	9027 Sep 10 12:17 9027 Sep 12 16:14	0° ت	1 0/22
	9026 Sep 26 06:53		1.31650 AU	avanii-			
evening rise	9026 Oct 02 22:52	25° Ω 33'56		evening rise	9027 Sep 17 08:13	10° Ω 12'14	
	000000 00000000000000000000000000000000				9027 Sep 27 09:14	0° M ₊	
	9026 Oct 05 01:52	0°M			•		
desc. node	9026 Oct 20 20:27	27°ML57'10		desc. node	9027 Oct 07 17:35	16°ML01'59	
	9026 Oct 20 20:27 9026 Oct 22 06:19	27° ™ 57'10 0° ⊀		desc. node evening max el	9027 Oct 07 17:35 9027 Oct 15 03:56	16°M01'59 24°M29'51	25°47'41
desc. node evening max el	9026 Oct 20 20:27	27°ML57'10	26°53'17		9027 Oct 07 17:35	16°ML01'59	25°47'41

retrograde	9027 Oct 29 01:59	1° ∡ ³32'09		evening max el	9028 Sep 25 17:03	5°ML01'56	24°17'14
evening set	9027 Nov 04 07:06	0° ₹ 01'42		retrograde	9028 Oct 09 10:27	11° M .54'48	2,
	9027 Nov 04 08:33	30°RM₊		evening set	9028 Oct 14 11:08	10°M59'03	
min. Earth dist.	9027 Nov 08 16:31	27°M25'40	0.58094 AU	min. Earth dist.	9028 Oct 20 03:50	8°M06'52	0.56287 AU
inferior conj	9027 Nov 11 18:14	25° ™ 14'55	-5°03'39	inferior conj	9028 Oct 22 14:05	6°M36'31	-5°36'58
minimum elong	9027 Nov 12 01:01	25°M02'51	5°02'11	minimum elong	9028 Oct 22 16:00	6°M33'31	5°36'44
morning rise	9027 Nov 19 21:14	20°M53'13		morning rise	9028 Oct 30 22:58	2°M36'13	
direct	9027 Nov 22 04:19	20°M36'29		direct	9028 Nov 02 14:33	2°M17'41	
asc. node	9027 Nov 30 07:57	24°M23'04		morning max el	9028 Nov 12 11:30	6°M57'50	19°43'29
morning max el	9027 Nov 30 16:34	24°M43'26	18°43'37	asc. node	9028 Nov 16 04:58	11°ML08'07	
	9027 Dec 05 02:53	0° ∡ ¹			9028 Nov 27 10:18	0°⊀	
morning set	9027 Dec 16 22:49	20° х 48′07		morning set	9028 Nov 30 02:28	5° ≯ 20′17	
	9027 Dec 21 16:03	0°₹					
				superior conj	9028 Dec 07 23:04	21° ∡ 11′24	1°24'47
superior conj	9027 Dec 25 14:20	7° る 30'49	1°05'05	minimum elong	9028 Dec 08 01:44	21° ∡ ²24'34	1°24'48
minimum elong	9027 Dec 25 17:38	7° る 46'22	1°04'55		9028 Dec 12 12:13	0° ろ	
max. Earth dist.	9028 Jan 01 19:26	20° る 39'20	1.39650 AU	max. Earth dist.	9028 Dec 14 01:36	2° ප 55'21	1.37478 AU
desc. node	9028 Jan 03 16:33	23° る 55'42		evening rise	9028 Dec 17 19:04	9° ප් 42'31	
evening rise	9028 Jan 05 19:55	27° ප 34'56		desc. node	9028 Dec 20 13:32	14° පි 33'42	
	9028 Jan 07 06:32	0° ≈			9028 Dec 30 00:27	0° ≈	
	9028 Jan 27 01:09	0°) (45140	24007122		9029 Jan 21 19:32	0°) {	25022102
evening max el	9028 Feb 09 19:59	16° ★ 45'40 23° ★ 19'15	24°07'33	evening max el	9029 Jan 22 09:13	0°) 33'56 7°) 34'17	25°23'03
retrograde evening set	9028 Feb 21 00:10 9028 Feb 26 07:52	23° X 1913 21° X 06'05		retrograde evening set	9029 Feb 03 12:38 9029 Feb 09 08:58	5° H 09'15	
asc. node	9028 Feb 26 07:52 9028 Feb 26 06:54	21°\(\)\(\)\(\)\(\)\(\)\(\)		asc. node	9029 Feb 12 04:03	2° X 17'53	
min. Earth dist.	9028 Mar 02 00:44	15°) (41'08	0.68220 AU	min. Earth dist.	9029 Feb 12 04:03 9029 Feb 13 18:31	0°) 19'09	0.67549 AU
inferior conj	9028 Mar 02 19:30	14°) (37'39	1°42'59	iiiii. Lattii dist.	9029 Feb 14 00:29	0 / (1909 30°R ≈	0.07549 AU
minimum elong	9028 Mar 02 17:28	14° X 44'32	1°42'22	inferior conj	9029 Feb 15 00:52	28° ≈ 41'11	0°55'46
morning rise	9028 Mar 08 03:07	8°) (35'41	1 1222	minimum elong	9029 Feb 14 23:34	28°≈45'25	0°55'24
direct	9028 Mar 12 02:22	7° ₩ 06'08		morning rise	9029 Feb 20 14:32	22°≈47'22	0 00 2 .
morning max el	9028 Mar 19 21:30	11°) 30'48	20°18'00	direct	9029 Feb 24 01:35	21°≈38'33	
desc. node	9028 Mar 31 16:29	26°) 28'13		morning max el	9029 Mar 03 02:03	25° ≈ 30'30	19°15'47
	9028 Apr 03 03:11	$_0$ ° γ		Č	9029 Mar 07 00:54	0°) €	
morning set	9028 Apr 17 01:37	20° Ƴ 59'32		greatest brilliancy	9029 Mar 16 02:50	12°) (47'09	-0.7m
C	9028 Apr 22 20:04	0° ႘		desc. node	9029 Mar 18 13:22	16°) €27'38	
max. Earth dist.	9028 Apr 26 17:29	6° 8 11'28	1.43799 AU	morning set	9029 Mar 27 01:54	29°) 31′53	
					9029 Mar 27 09:10	$0^{\circ}\mathbf{Y}$	
superior conj	9028 May 02 19:00	16° 8 03'05	-2°10'44	max. Earth dist.	9029 Apr 09 08:20	20° Ƴ 12'12	1.45026 AU
minimum elong	9028 May 02 21:35	16° 8 13'46	2°10'51				
	9028 May 11 01:48	$\Pi^{\circ}0$		superior conj	9029 Apr 12 15:45	25° Y 26'16	
evening rise	9028 May 15 11:22	7° Ⅱ 36′20		minimum elong	9029 Apr 12 11:27	25° Y 09'11	2°08'53
asc. node	9028 May 24 05:36	22° Ⅱ 35'59			9029 Apr 15 12:25	9° 8	
	9028 May 29 02:33	0 \circ \odot		evening rise	9029 Apr 27 01:43	18° 8 49'15	
evening max el	9028 Jun 01 19:18	4°9524'08	18°05'59		9029 May 03 20:12	Π $^{\circ}0$	
retrograde	9028 Jun 08 05:41	7° © 44'36		asc. node	9029 May 11 02:42	11° Ⅲ 20′20	
evening set	9028 Jun 10 23:19	7° © 07'19		evening max el	9029 May 16 08:30	17° Ⅲ 50'51	18°21'15
inferior conj	9028 Jun 17 07:00	1°958'12		retrograde	9029 May 22 18:17	21° Ⅱ 17'11	
minimum elong	9028 Jun 17 09:44	1°©51'07	2°3/36	evening set	9029 May 25 19:18	20° ∏ 26′23	2000157
i. Darde diet	9028 Jun 19 04:22	30°RⅡ 20°Ⅲ5(120	0.62104.411	inferior conj	9029 May 31 15:54		
min. Earth dist. morning rise	9028 Jun 20 05:23 9028 Jun 23 18:13	28°Щ56'38 25°Щ52'18	0.62194 AU	minimum elong min. Earth dist.	9029 May 31 17:34 9029 Jun 03 00:16	14° Ⅱ 54'38 12° Ⅱ 16'47	3°08'28 0.64247 AU
desc. node	9028 Jun 27 16:07	23° II 52'18		morning rise	9029 Jun 06 14:44	8° Ⅱ 43'50	0.04247 AU
direct	9028 Jun 30 11:49	23° II 26'54		direct	9029 Jun 13 07:14	6° П 02'22	
direct	9028 Jul 13 02:08	0°95		desc. node	9029 Jun 14 13:09	6° П 07'28	
morning max el	9028 Jul 14 14:54		27°55'36	morning max el	9029 Jun 27 00:33	14° Ⅱ 02'32	27°31'22
morning man vi	9028 Aug 04 12:34	0° Ω	2, 2230		9029 Jul 09 22:14	0°95	2, 3122
morning set	9028 Aug 17 11:13	24° Ω 00'01			9029 Jul 28 03:41	$0^{\circ}\Omega$	
asc. node	9028 Aug 20 05:07	29° Ω 41'37		morning set	9029 Aug 01 03:45	7° Ω 41'01	
	9028 Aug 20 08:36	0° m/y		max. Earth dist.	9029 Aug 05 22:37	17° Ω 23′28	1.33024 AU
max. Earth dist.	9028 Aug 22 23:06	5° m 34′00	1.32086 AU	asc. node	9029 Aug 07 02:04	19° Ω 47'11	
	-				-		
superior conj	9028 Aug 24 23:58	9° m 59'54	0°46'46	superior conj	9029 Aug 09 05:24	24° Ω 19'40	0°21'24
minimum elong	9028 Aug 24 22:03	9° ™ 49'25	0°46'18	minimum elong	9029 Aug 09 04:22	24° Ω 14′09	0°21'01
evening rise	9028 Aug 31 19:35	24° Mp 53'26			9029 Aug 11 20:41	0° m	
	9028 Sep 03 05:38	0∘ ত		evening rise	9029 Aug 16 07:02	9° m 31'49	
	9028 Sep 21 02:44	0° M			9029 Aug 26 20:25	0∘ ত	
desc. node	9028 Sep 23 14:44	2°M53'14		evening max el	9029 Sep 07 04:33	15° ≙ 12'50	22°37'29

desc. node	9029 Sep 10 11:53	18° ≏ 03'46		behind sun end	9030 Jul 24 10:02	8° Ω 45'28	
retrograde	9029 Sep 20 06:56	21° Ω 45'00		asc. node	9030 Jul 24 23:00	9° Ω 52'48	
evening set	9029 Sep 23 19:23	21° ⊆ 17'48		evening rise	9030 Jul 31 16:35	24°Ω00'46	
min. Earth dist.	9029 Oct 01 11:58	17° £ 52'05	0.55050 AU	evening rise	9030 Aug 03 14:29	0° m)	
inferior conj	9029 Oct 02 15:41	17° Ω 12'41		evening max el	9030 Aug 19 23:38	25° m) 38'54	21°04'40
minimum elong	9029 Oct 02 09:52	17° ≏ 20'57		3	9030 Aug 25 19:03	0∘ ⊽	
morning rise	9029 Oct 11 02:15	13° ≏ 24'46		desc. node	9030 Aug 28 09:02	1° ≏ 01'26	
direct	9029 Oct 14 06:47	13° ≏ 01'34		retrograde	9030 Aug 31 19:32	1° ≏ 30'42	
morning max el	9029 Oct 25 17:25	18° ≙ 23'45	21°05'32	evening set	9030 Sep 03 03:04	1° ≏ 18'07	
asc. node	9029 Nov 03 01:57	28° £ 51'59			9030 Sep 07 06:17	30°R, Mp	
	9029 Nov 03 19:11	0° M		inferior conj	9030 Sep 12 08:10	27° m 21'37	-4°14'40
morning set	9029 Nov 14 10:52	20°M04'06		minimum elong	9030 Sep 11 22:29	27° m 35'18	4°12'02
	9029 Nov 19 04:44	0° ∡		min. Earth dist.	9030 Sep 12 20:35	27° Mp $04'04$	0.54660 AU
				morning rise	9030 Sep 20 18:17	23° m 27'13	
superior conj	9029 Nov 21 18:51	5° ∡ ¹23'04	1°36'25	direct	9030 Sep 24 14:48	22° m 55'17	
minimum elong	9029 Nov 21 20:20	5° ∡ ³30'42	1°36'33	morning max el	9030 Oct 07 11:37	29°M 03'55	22°45'23
max. Earth dist.	9029 Nov 26 11:07	14° ₰ ′50′09	1.35486 AU		9030 Oct 08 10:50	0∘ ত	
evening rise	9029 Nov 30 12:22	22° ∡ ³37'54		asc. node	9030 Oct 20 22:54	17° ≏ 20'21	
	9029 Dec 04 13:12	0°ප			9030 Oct 27 13:39	0° M	
desc. node	9029 Dec 07 10:33	5° る 02'17		morning set	9030 Oct 29 21:50	4°M52'43	
	9029 Dec 23 18:25	0° ≈					
evening max el	9030 Jan 04 22:23	14° ≈ 19′09	26°26'40	superior conj	9030 Nov 05 22:13	19°M54'58	1°40'49
retrograde	9030 Jan 17 20:02	21° ≈ 35′24		minimum elong	9030 Nov 05 22:25	19° M 56'01	1°41'00
evening set	9030 Jan 24 04:21	19° ≈ 02'14		max. Earth dist.	9030 Nov 09 03:58	26°M44'43	1.33840 AU
min. Earth dist.	9030 Jan 28 07:32	14° ≈ 46'43	0.66496 AU		9030 Nov 10 17:53	0° ∡ ¹	
inferior conj	9030 Jan 30 01:34	12° ≈ 39'46	0°00'20	evening rise	9030 Nov 13 19:58	6° ∡ 10'56	
minimum elong	9030 Jan 30 01:33	12° ≈ 39'49	0°00'32	desc. node	9030 Nov 24 07:36	25° ∡ 15'51	
transit middle	9030 Jan 30 01:33	12° ≈ 39'49	0°00'32		9030 Nov 27 04:50	0° ろ	
transit begin	9030 Jan 29 22:40	12° ≈ 48'35		evening max el	9030 Dec 18 11:29	27°る53'19	27°11'12
transit end	9030 Jan 30 04:27	12° ≈ 31'04			9030 Dec 20 19:40	0° ≈	
asc. node	9030 Jan 30 01:10	12° ≈ 40'59		retrograde	9030 Dec 31 21:37	5°≈14'53	
morning rise	9030 Feb 04 23:38	6°≈56'08		evening set	9031 Jan 07 15:58	2°≈39'29	
direct	9030 Feb 07 23:57	6°≈05'06	1.002.012.0	i in al li a	9031 Jan 10 14:04	30°Rる	0.65002 ATT
morning max el	9030 Feb 14 13:29	9° ≈ 37'00 0°) €	18°29'29	min. Earth dist.	9031 Jan 11 13:41	28°る57'30	
desc. node	9030 Mar 01 03:48	0°π 6°¥44'55		inferior conj minimum elong	9031 Jan 13 19:21 9031 Jan 13 21:13	26° පි28'43 26° පි23'31	1°01'36
morning set	9030 Mar 05 10:14 9030 Mar 06 22:56	9° H 10'17		asc. node	9031 Jan 16 22:16	20 3 23 31 23° 3 14'26	1 01 30
morning set	9030 Mar 00 22:30 9030 Mar 20 04:19	9 γ (1017		morning rise	9031 Jan 20 03:55	23 3 1420 20° 3 57'36	
	9030 Wai 20 04.19	0 1		direct	9031 Jan 20 03:33 9031 Jan 22 19:19	20° ろ 20'36	
superior conj	9030 Mar 22 21:55	4° Υ 16'40	-1°46'50	morning max el	9031 Jan 29 05:23	20 3 2030 23° る 43'37	17°59'58
minimum elong	9030 Mar 22 12:31		1°46'01	morning max ci	9031 Feb 03 07:58	0°≈	17 37 30
max. Earth dist.	9030 Mar 23 02:48	4° Υ 35'47	1.45549 AU	morning set	9031 Feb 16 01:32	20° ≈ 17'12	
evening rise	9030 Apr 07 16:17	29° Υ 03'41	1	desc. node	9031 Feb 20 07:08	27°≈15'06	
	9030 Apr 08 06:31	0°8			9031 Feb 21 23:31	0°) €	
greatest brilliancy	9030 Apr 16 22:02	13° 8 39'08	-0.8m				
asc. node	9030 Apr 27 23:48	29° 8 27'24		superior conj	9031 Mar 02 07:48	13°) €24'46	-1°08'48
	9030 Apr 28 11:08	0° I I		minimum elong	9031 Mar 02 00:03	12°) 53′59	1°07'43
evening max el	9030 Apr 29 19:06	1° Ⅲ 25'37	18°54'22	max. Earth dist.	9031 Mar 05 22:14	19° ∺ 05'51	1.45331 AU
retrograde	9030 May 06 13:02	5° Ⅱ 10'30			9031 Mar 12 21:56	0 ° Υ	
evening set	9030 May 09 21:41	4° Ⅱ 05'15		evening rise	9031 Mar 18 11:08	8° Y 34'50	
	9030 May 14 03:20	30° ₹ 8		greatest brilliancy	9031 Apr 01 09:00	29° Y '44'00	-0.7m
inferior conj	9030 May 15 10:53	28° 8 22'19	3°20'55		9031 Apr 01 13:20	0° 8	
minimum elong	9030 May 15 11:15	28° 8 21'08	3°20'41	evening max el	9031 Apr 13 01:15	15° 8 04'29	19°43'57
min. Earth dist.	9030 May 17 04:03	26° 8 12'54	0.65954 AU	asc. node	9031 Apr 14 20:55	16° 8 45'59	
morning rise	9030 May 21 00:14	22° 8 03'16		retrograde	9031 Apr 20 10:50	19° 8 18'48	
direct	9030 May 27 10:02	19° 8 17'21		evening set	9031 Apr 24 03:54	17° 8 58'28	
desc. node	9030 Jun 01 10:09	20° 8 40'06		inferior conj	9031 Apr 29 12:48	12° 8 01'10	
morning max el	9030 Jun 09 11:13	27° 8 02'54	26°36'34	minimum elong	9031 Apr 29 12:01	12° 8 03'47	3°18'17
	9030 Jun 12 05:25	0° I		min. Earth dist.	9031 Apr 30 15:10	10° 8 33'16	0.67240 AU
	9030 Jul 03 13:46	0°95		morning rise	9031 May 04 19:50	5° 8 42'43	
morning set	9030 Jul 15 09:00	20°547'01		direct	9031 May 10 19:02	3° 8 03'17	
max. Earth dist.	9030 Jul 19 11:47	28° © 45'12	1.34452 AU	desc. node	9031 May 19 07:06	6° 8 59'44	0.500.011.5
	9030 Jul 20 02:49	0 \circ Ω		morning max el	9031 May 22 20:57	10° 8 18'02	25°20'15
	0020 1 1 24 24 26	00.01.014	0007142		9031 Jun 07 11:46	0° Ⅱ	
superior conj	9030 Jul 24 04:28	8° Ω 16'41			9031 Jun 26 04:54	0°©	
minimum elong	9030 Jul 24 04:55	8° Ω 18'57	0-0/31	morning set	9031 Jun 27 22:49	3°507'07	1 26221 ATT
behind sun begin	9030 Jul 23 23:48	7° Ω 52'28		max. Earth dist.	9031 Jul 01 14:16	9° © 48'50	1.36331 AU

superior conj	9031 Jul 07 18:25	21° © 44'05	0°20'22	superior conj	9032 Jun 19 19:39	4° © 32'28	1011140
minimum elong	9031 Jul 07 18:23 9031 Jul 07 20:50	21°956'05		minimum elong	9032 Jun 20 00:12	4°954'01	1°11'12
asc. node	9031 Jul 11 19:58	21 3 50 05 29° 9 54'57	0 39 11	asc. node	9032 Jun 27 16:57	19° © 49'15	1 11 12
asc. Houc	9031 Jul 11 19:58 9031 Jul 11 20:57	29 3 3437		evening rise	9032 Jun 28 20:44	22° © 05'27	
evening rise	9031 Jul 15 22:03	8° Ω 14'32		evening rise	9032 Jul 02 23:03	0°Ω	
evening rise	9031 Jul 27 20:46	0° m)		evening max el	9032 Jul 15 04:43		18°54'04
evening max el	9031 Aug 02 07:52	6° Mp 45'38	19°49'01	retrograde	9032 Jul 23 17:22	22°Ω51'13	10 34 04
retrograde	9031 Aug 12 10:56	11° m) 45'55	17 4701	evening set	9032 Jul 25 16:09	22° Ω 38'47	
evening set	9031 Aug 12 10:30 9031 Aug 14 07:40	11° Mp 36'30		desc. node	9032 Aug 01 03:14	19° Ω 33'39	
desc. node	9031 Aug 15 06:08	11° Mp 24'59		inferior conj	9032 Aug 02 21:02	18° Ω 21'02	-0°32'01
inferior conj	9031 Aug 23 05:57	7° m ₂ 35'10	-2°26'18	minimum elong	9032 Aug 02 19:41	18° Ω 23'25	0°31'40
minimum elong	9031 Aug 22 23:19	7° m/ 45'22		min. Earth dist.	9032 Aug 05 22:20	16° Ω 11'41	0.56656 AU
min. Earth dist.	9031 Aug 25 07:35	6° Mp 19'05	0.55235 AU	morning rise	9032 Aug 10 19:57	13° Ω 24'03	0.50050710
morning rise	9031 Aug 31 13:04	3° Mp 14'44	0.33233 110	direct	9032 Aug 16 07:14	12° Ω 12'41	
direct	9031 Sep 05 04:33	2° m)27'12		morning max el	9032 Aug 30 13:26	19° Ω 34'50	26°08'18
morning max el	9031 Sep 18 23:48		24°31'46	morning max or	9032 Sep 08 10:11	0°m)	20 00 10
morning max or	9031 Oct 04 07:39	0∘ ರ	21 31 10	asc. node	9032 Sep 23 16:44	25° m/49'25	
asc. node	9031 Oct 07 19:49	° 6° 22'19		use. Houe	9032 Sep 25 18:03	0° ⊡	
morning set	9031 Oct 14 09:35	19° £ 41'07		morning set	9032 Sep 27 20:31	∘ – 4° Ω 24'59	
morning set	9031 Oct 19 03:34	0°ML		morning set	7032 Sep 27 20.31	7 -2737	
	7051 OCt 17 05.54	0 110		superior conj	9032 Oct 04 17:29	19° ≏ 28'28	1°30'55
superior conj	9031 Oct 21 06:29	4°ML38'55	1°38'47	minimum elong	9032 Oct 04 15:44	19° ⊆ 18'43	1°30'50
minimum elong	9031 Oct 21 05:33	4°M33'50		max. Earth dist.	9032 Oct 05 12:21	21° ⊆ 12'53	1.31876 AU
max. Earth dist.	9031 Oct 21 05:02	8°M51'59		max. Earth tist.	9032 Oct 09 12:50	0°M	1.51070710
evening rise	9031 Oct 28 14:18	20°ML12'13	1.52050 110	evening rise	9032 Oct 11 16:25	4°M33'46	
e vennig rise	9031 Nov 02 14:01	0°×7		evening rise	9032 Oct 25 06:18	0° ⊼	
desc. node	9031 Nov 11 04:40	15° ×7 07'33		desc. node	9032 Oct 28 01:46	4° х 28'33	
dese. Hode	9031 Nov 21 06:45	0°중		evening max el	9032 Nov 12 06:57	23° х 40'26	27°16'23
evening max el	9031 Nov 30 23:09	11° る 04'49	27°29'39	evening max er	9032 Nov 21 14:13	0°중	27 1023
retrograde	9031 Dec 14 16:28	18° る 23'32	27 27 37	retrograde	9032 Nov 26 03:32	0° る 52'43	
evening set	9031 Dec 14 10:28 9031 Dec 21 17:09	15° る 53'48		retrograde	9032 Nov 30 13:05	30°R.✓	
min. Earth dist.	9031 Dec 25 10:52	12° る 42'31	0.63350 AU	evening set	9032 Dec 03 04:35	28° × ⁷ 37'59	
inferior conj	9031 Dec 28 03:30	10°පි01'10		min. Earth dist.	9032 Dec 06 21:30	25° 🖈 51'01	0.61373 AU
minimum elong	9031 Dec 28 07:42	9° ප 50'38		inferior conj	9032 Dec 09 22:54	23°×31'01'	
asc. node	9032 Jan 03 19:20	4°る50'20	2 0743	minimum elong	9032 Dec 10 05:23	22° x 54'47	
morning rise	9032 Jan 04 00:14	4° る 45'34		morning rise	9032 Dec 17 08:32	18°× 12'32	3 20 30
direct	9032 Jan 06 09:01	4° る 18'39		direct	9032 Dec 19 13:32	17° 🖈 52'06	
morning max el	9032 Jan 12 22:49	7° る 42'17	17°47'47	asc. node	9032 Dec 20 16:22	17° 🖈 52'00	
morning max cr	9032 Jan 27 17:21	0°≈	1/ 4/4/	morning max el	9032 Dec 26 14:38	21° × ⁷ 25'07	17°53'49
morning set	9032 Jan 29 06:22	2°≈40'16		morning max or	9033 Jan 02 03:06	0°る	17 55 19
desc. node	9032 Feb 07 04:02	17°≈53'34		morning set	9033 Jan 11 06:52	0 3 15° る 59'17	
dese. Hode	7032100 07 01.02	17 74 33 31		morning sec	9033 Jan 19 01:44	0°≈	
superior conj	9032 Feb 10 13:27	23° ≈ 31'43	-0°24'48		7033 Juli 17 01.44	0 /01	
minimum elong	9032 Feb 10 10:49	23°≈20'53		superior conj	9033 Jan 21 20:40	4°≈52'25	0°16'15
minimum ciong	9032 Feb 14 12:47	0° ∀	0 2111	minimum elong	9033 Jan 21 22:06	4°≈58'34	0°16'15
max. Earth dist.	9032 Feb 16 16:25	3° ¥ 27'06	1.44404 AU	desc. node	9033 Jan 24 00:59	8°≈36'58	0 10 15
evening rise	9032 Feb 25 22:22	17° ¥ 55'33	1.11101110	max. Earth dist.	9033 Jan 29 07:14	17° ≈ 24'34	1.42868 AU
2.0	9032 Mar 04 21:23	0° Υ		evening rise	9033 Feb 04 17:22	27°≈43'29	2000 710
evening max el	9032 Mar 26 01:56	28° Ƴ 44'37	20°47'39	evening rise	9033 Feb 06 04:14	0° ∀	
	9032 Mar 27 09:07	0°8	/ -/		9033 Feb 26 15:31	0°Υ	
asc. node	9032 Mar 31 18:02	3° 8 01'33		evening max el	9033 Mar 08 21:21	12° Υ 26'16	22°01'46
retrograde	9032 Apr 03 09:21	3° 8 36'33		retrograde	9033 Mar 18 06:50	17°Υ59'58	22 01 10
evening set	9032 Apr 07 11:52	2° 8 00'47		asc. node	9033 Mar 18 15:09	17° Υ 59'21	
5 · • · · · · · · · · · · · · · · · · ·	9032 Apr 09 13:55	30°R Ƴ		evening set	9033 Mar 22 19:56	16° Y ′08′52	
inferior conj	9032 Apr 12 19:04	25° Υ 50'57	3°04'16	inferior conj	9033 Mar 28 03:32		2°39'54
minimum elong	9032 Apr 12 17:25	25°Υ56'38		minimum elong	9033 Mar 28 01:24	9° Υ 56'22	
min. Earth dist.	9032 Apr 13 07:37	25° Y 07'39		min. Earth dist.	9033 Mar 28 03:18	9° Υ 49'42	0.68471 AU
morning rise	9032 Apr 17 22:45	19° Υ 35'25		morning rise	9033 Apr 02 06:42	3° Υ 37'40	
direct	9032 Apr 17 22:43 9032 Apr 23 09:03	17° Υ 11'00		direct	9033 Apr 07 03:07	1° Υ 33'30	
morning max el	9032 Apr 23 09:03 9032 May 04 06:02	23° Υ 40'42	23°52'29	morning max el	9033 Apr 16 17:07	7° Υ 11'35	22°23'06
desc. node	9032 May 04 00:02 9032 May 05 04:03	24° Y 37'36		desc. node	9033 Apr 10 17:07 9033 Apr 22 01:01	13°Υ12'32	22 23 00
desc. Houc	9032 May 09 20:36	0° と		dese. Hode	9033 Apr 22 01:01 9033 May 04 08:48	0° 8	
	9032 May 09 20.36 9032 May 30 21:18	0°II		morning set	9033 May 04 08.48 9033 May 20 07:23	24° 8 34'24	
morning set	9032 May 30 21:18 9032 Jun 08 15:58	0° Ⅱ 14° Ⅱ 26'55		morning set	9033 May 20 07:23 9033 May 23 14:27	24° O 3424 0° Ⅱ	
morning set max. Earth dist.	9032 Jun 08 15:58 9032 Jun 12 10:54	14° Ⅲ 26′55 21° Ⅲ 02′49	1.38519 AU	max. Earth dist.	9033 May 25 14:27 9033 May 25 08:57		1.40776 AU
max. Earm UISt.	9032 Jun 12 10:34 9032 Jun 17 09:27	0°95	1.30317 AU	max. Darth UISt.	7033 Way 23 00.31	<u> 2</u> щ36 13	1.40//0 AU
	9032 Jun 1/ U9.2/	وت ن		superior conj	9033 Jun 02 03:52	16° Ⅲ 31'39	-10/11/21
				superior conj	7033 Jun 02 03.32	10 113139	1 71 41

minimum elong	9033 Jun 02 09:50 9033 Jun 09 12:00	16°∏58'26 0°©	1°40'55	superior conj minimum elong	9034 May 14 14:29 9034 May 14 19:28	27° 8 32'01 27° 8 53'13	
evening rise	9033 Jun 12 09:20	5° 9 25'02		minimum clong	9034 May 16 01:12	0°Ⅱ	2 03 33
asc. node	9033 Jun 14 13:58	9° © 31'17		evening rise	9034 May 26 07:40	18° Ⅱ 03'33	
	9033 Jun 27 09:15	$0^{\circ}\Omega$		asc. node	9034 Jun 01 11:01	28° Ⅱ 56'19	
evening max el	9033 Jun 28 10:51	1° Ω 07'05	18°19'54		9034 Jun 02 01:49	0 \circ \odot	
retrograde	9033 Jul 05 19:10	4° Ω 48'22		evening max el	9034 Jun 11 22:28	14° 5 06'17	18°05'36
evening set	9033 Jul 08 00:41	4° Ω 28'47		retrograde	9034 Jun 18 13:54	17° © 30'15	
inferior conj	9033 Jul 15 09:51	29° 9 50'40	1°03'19	evening set	9034 Jun 21 03:02	17° © 00'15	
minimum elong	9033 Jul 15 11:55	29° © 46'22	1°02'21	inferior conj	9034 Jun 27 18:56	12° © 02'12	2°11'24
	9033 Jul 15 05:22	30° ₹ 5		minimum elong	9034 Jun 27 21:54	11°555'02	2°10'19
min. Earth dist.	9033 Jul 18 18:59	27°502'56	0.58654 AU	min. Earth dist.	9034 Jun 30 23:37	8°958'34	0.60902 AU
desc. node	9033 Jul 19 00:22	26°552'23		morning rise	9034 Jul 04 14:12	6°505'25	
morning rise direct	9033 Jul 22 19:48 9033 Jul 28 23:55	24°©18'50 22°©37'21		desc. node direct	9034 Jul 05 21:28 9034 Jul 11 04:59	5° © 18'45 3° © 53'53	
direct	9033 Aug 12 00:00	0°Ω		morning max el	9034 Jul 25 11:55	11° © 53'02	27°53'17
morning max el	9033 Aug 12 00:00 9033 Aug 12 09:14	0° Ω 22'22	27°18'51	morning max cr	9034 Aug 08 18:31	0°Ω	27 33 17
	9033 Sep 02 11:40	0° mp	_,		9034 Aug 25 18:29	0° m)	
asc. node	9033 Sep 10 13:39	15° m 33'56		morning set	9034 Aug 27 08:56	3° m) 16'45	
morning set	9033 Sep 12 04:54	18° m 58'35		asc. node	9034 Aug 28 10:35	5° m/30'19	
	9033 Sep 17 06:59	0∘ ⊽		max. Earth dist.	9034 Sep 02 07:08	15° m 57'02	1.31759 AU
superior conj	9033 Sep 19 05:17	4° ≏ 16'48	1°17'41	superior conj	9034 Sep 03 16:07	18° m 58'30	0°59'26
minimum elong	9033 Sep 19 03:05	4° £ 04'35	1°17'23	minimum elong	9034 Sep 03 13:56	18°M/46'32	0°59'00
max. Earth dist.	9033 Sep 18 22:20	3° ≏ 38'11	1.31583 AU		9034 Sep 08 16:09	0∘ ⊽	
evening rise	9033 Sep 25 23:43	19° Ω 07'26		evening rise	9034 Sep 10 10:08	3° Ω 47'16	
	9033 Oct 01 07:06	0°M			9034 Sep 24 06:23	0°M	
desc. node	9033 Oct 14 22:53	23°M05'51		desc. node	9034 Oct 01 20:01	10°M42'13	25011126
	9033 Oct 20 05:42	0°⊀ 5°.₹370.	26920104	evening max el	9034 Oct 07 00:39	16°M23'07 23°M23'01	25°11'26
evening max el retrograde	9033 Oct 25 07:51 9033 Nov 08 05:49	5° ₹27'16 12° ₹33'35	26-29 04	retrograde evening set	9034 Oct 20 21:49 9034 Oct 26 16:18	23°11623'01 22°11607'08	
evening set	9033 Nov 14 21:53	12 x 33 33		min. Earth dist.	9034 Oct 31 12:25	19°M26'31	0.57275 AU
min. Earth dist.	9033 Nov 14 21:33 9033 Nov 18 21:20	8°×709'10	0.59277 AU	inferior conj	9034 Nov 03 09:33	17°M30'55	
inferior conj	9033 Nov 22 01:57	5° х 41′56		minimum elong	9034 Nov 03 14:51	17°M22'00	5°21'23
minimum elong	9033 Nov 22 09:29	5° ₹ 27'24		morning rise	9034 Nov 11 15:44	13°M19'06	0 21 20
morning rise	9033 Nov 29 23:32	1° ∡ °07'27		direct	9034 Nov 14 01:33	13°M02'07	
direct	9033 Dec 02 04:29	0° ∡ ′50′17		morning max el	9034 Nov 23 03:01	17°M22'00	19°06'18
asc. node	9033 Dec 07 13:24	2° ∡ ³38′22		asc. node	9034 Nov 24 10:25	18°M42'23	
morning max el	9033 Dec 10 01:17	4° ∡ 1'45	18°19'24		9034 Dec 02 07:12	0° ∡	
morning set	9033 Dec 25 21:07	29° ₹ 55'41		morning set	9034 Dec 09 20:49	14° √ 17'11	
	9033 Dec 25 22:02	0°ಕ			9034 Dec 17 20:05	5°0	
							
superior conj	9034 Jan 04 02:59	17°₹18'23	0°49'45	superior conj	9034 Dec 18 03:28		1°14'28
minimum elong	9034 Jan 04 06:08	17°る32'46	0°49'33	minimum elong	9034 Dec 18 06:36	0°る50'40	1°14'22
desc. node	9034 Jan 10 21:56 9034 Jan 11 07:02	29°る20'59 0°≈		max. Earth dist.	9034 Dec 24 22:37 9034 Dec 28 17:52	13°る15'39 19°る57'43	1.38717 AU
max. Earth dist.	9034 Jan 11 07.02 9034 Jan 11 16:49	0 ≈ 0°≈41'53	1.40891 AU	evening rise desc. node	9034 Dec 28 17.32 9034 Dec 28 18:54	19 3 3743 20° る 02'12	
evening rise	9034 Jan 16 06:41	8°≈21'36	1.40891 AU	desc. flode	9034 Dec 28 18:54 9035 Jan 03 17:53	20 ⊙ 02 12 0° ≈	
e vennig rise	9034 Jan 30 05:50	0° ∀			9035 Jan 24 09:29	0°) €	
evening max el	9034 Feb 19 12:46	26° ¥ 10′05	23°21'31	evening max el	9035 Feb 02 02:15	9° ¥ 57'00	24°40'39
Č	9034 Feb 23 22:39	$0^{\circ}\mathbf{Y}$		retrograde	9035 Feb 13 17:09	16°) 44′03	
retrograde	9034 Mar 02 01:52	2° Y 24'18		evening set	9035 Feb 19 06:08	14°) €25'30	
asc. node	9034 Mar 05 12:17	1° Y 26'43		asc. node	9035 Feb 20 09:27	13° ¥ 21'42	
evening set	9034 Mar 07 02:34	0° Y 18'38		min. Earth dist.	9035 Feb 23 19:42	9°) 15′13	0.67978 AU
	9034 Mar 07 11:03	30° ₹ ₩		inferior conj	9035 Feb 24 19:26	7° ¥ 56′18	1°23'59
min. Earth dist.	9034 Mar 12 00:05	24°) 33′52	0.68427 AU	minimum elong	9035 Feb 24 17:38	8° ¥ 02'17	1°23'26
inferior conj	9034 Mar 12 12:17		2°06'19	morning rise	9035 Mar 02 05:19	1°) (57'27	
minimum elong	9034 Mar 12 10:04	23°) € 59'32	2°05'40	direct	9035 Mar 05 23:06	0°) €37'09	1004012:
morning rise	9034 Mar 17 17:33	17°) (46'10		morning max el	9035 Mar 13 09:33	4°) (46'48	19°49'34
direct	9034 Mar 22 00:12	16° ¥ 04'13	21000110	greatest brilliancy	9035 Mar 26 07:59	21° X 35'09	-0.6m
morning max el	9034 Mar 30 09:35	20°) 53′26 0° °	Z1 UU 18	desc. node	9035 Mar 26 18:50 9035 Mar 31 23:42	22°) 14′52 0° °	
desc. node	9034 Apr 07 01:41 9034 Apr 08 21:57	0°γ° 2° Υ 28'51		morning set	9035 Mar 31 23:42 9035 Apr 08 18:29	11° Υ 52'07	
dese. Houc	9034 Apr 08 21.37 9034 Apr 27 14:08	0° 8		max. Earth dist.	9035 Apr 10 18.29 9035 Apr 19 23:39	29° Y 23'45	1.44396 AU
morning set	9034 Apr 29 20:24	3° 8 31'12		max. Darm dist.	9035 Apr 20 08:46	0° 8	1.11570 AU
max. Earth dist.	9034 May 07 12:51		1.42815 AU				
		- · · · ·		superior conj	9035 Apr 25 00:32	7° 8 28'26	-2°12'22
				. ,			

minimum elong	9035 Apr 25 00:27	7° 8 28'08	2°12'32	max. Earth dist.	9036 Apr 01 16:15	13°'Y'36'05	1.45343 AU
evening rise	9035 May 08 10:53	29° 8 49'30					
	9035 May 08 13:21	0°Ⅱ 15°Ⅲ 55120		superior conj	9036 Apr 03 13:23	16° Ƴ 33'18	
asc. node	9035 May 19 08:06	17° ∏ 57'38	10010115	minimum elong	9036 Apr 03 06:14	16° Y 05'13	2°01'37
evening max el	9035 May 26 12:00	27° Ⅱ 25'17	18°10'17		9036 Apr 12 00:56	0°8	
. 1	9035 May 29 21:13	0°©		evening rise	9036 Apr 18 15:05	10° 8 36'50	
retrograde	9035 Jun 01 21:03	0°546'34		4-	9036 Apr 30 17:35	0°Щ 6°Щ27′30	
evening set	9035 Jun 04 17:47	0°503'48		asc. node	9036 May 05 05:12	10° П 56'35	10022115
:	9035 Jun 04 20:49	30°R∏ 24°∏47!14	295 4102	evening max el	9036 May 09 00:28	10°Щ36'33 14°Щ28'54	18°33'15
inferior conj	9035 Jun 10 20:18 9035 Jun 10 22:38	24° ∏ 47'14 24° ∏ 40'50		retrograde	9036 May 15 12:34 9036 May 18 16:51	14°Щ28'54 13°Щ31'58	
minimum elong min. Earth dist.	9035 Jun 10 22.38 9035 Jun 13 13:11	24 H40 30 21°H51'09	0.63102 AU	evening set inferior conj	9036 May 24 09:54	7° П 58'12	3°15'56
morning rise	9035 Jun 17 01:54	18° I I36'10	0.03102 AU	minimum elong	9036 May 24 11:01	7° П 54'50	3°15'36
desc. node	9035 Jun 22 18:33	16° I I05'46		min. Earth dist.	9036 May 26 11:51	7 П 34 30 5° П 28'20	0.65032 AU
direct	9035 Jun 23 19:56	16° I I03'40		morning rise	9036 May 30 04:21	1° ∏ 40'46	0.03032 AU
morning max el	9035 Jul 23 19:33 9035 Jul 07 19:33	24° I 105'15	27040124	morning rise	9036 Jun 01 15:07	30°R ႘	
morning max ci	9035 Jul 13 03:08	0°95	21 49 24	direct	9036 Jun 05 18:47	28° 8 55'50	
	9035 Aug 02 03:32	0°Ω		desc. node	9036 Jun 08 15:34	29° 6 22'57	
morning set	9035 Aug 11 06:23	17° Ω 12'42		desc. Hode	9036 Jun 10 06:27	29 Ο 22 37	
asc. node	9035 Aug 15 07:31	25°Ω33'20		morning max el	9036 Jun 19 05:40	6° П 50'54	27911100
max. Earth dist.	9035 Aug 16 10:49	$27^{\circ} \Omega 58'00$	1.32420 AU	morning max er	9036 Jul 07 01:03	0°99	27 11 09
max. Earth dist.	9035 Aug 17 09:37	0° Mp	1.32420 AU		9036 Jul 24 10:21	0°Ω	
	9033 Aug 17 09.37	עוו ט		morning set	9036 Jul 24 10:21 9036 Jul 24 18:29	0° Ω 39'20	
superior conj	9035 Aug 19 00:04	3°m/27'32	0°36'31	max. Earth dist.	9036 Jul 29 05:59	9° Ω 34'20	1.33577 AU
minimum elong	9035 Aug 18 22:27	3°M) 18'48	0°36'04	asc. node	9036 Aug 01 04:28	15° Ω 39'11	1.55577 AO
evening rise	9035 Aug 25 21:42	18° Mp 27'08	0 30 04	asc. node	9030 Aug 01 04.28	13 063911	
evening rise	9035 Aug 31 12:33	10 11√2700 0° Ω		superior conj	9036 Aug 02 03:05	17° Ω 38'14	0°09'28
evening max el	9035 Sep 18 12:05	0 = 26° £ 41'46	22024150	minimum elong	9036 Aug 02 03:05 9036 Aug 02 02:36	$17^{\circ} \Omega 35'42$	0°09'10
desc. node	9035 Sep 18 17:10	26° £ 53'59	23 34 39	behind sun begin	9036 Aug 01 21:59	17° Ω 11'21	0 09 10
desc. node	9035 Sep 18 17:10 9035 Sep 22 10:32	0° ™		behind sun end	9036 Aug 02 07:13	18°Ω00'05	
retrograde	9035 Oct 02 01:13	3°M27'56		belling sun eng	9036 Aug 07 22:15	0° m	
evening set	9035 Oct 02 01:13 9035 Oct 06 10:22	2°M46'03		evening rise	9036 Aug 09 08:35	3°Mp01'56	
evening set	9035 Oct 00 10:22 9035 Oct 12 09:18	2 11 0 40 03		evening rise	9036 Aug 24 06:11	0∘ ⊽	
min. Earth dist.	9035 Oct 12 05:18 9035 Oct 12 22:12	29° £ 41'16	0.55667 AU	evening max el	9036 Aug 30 01:51	o — 6° ≏ 54'48	21°56'20
inferior conj	9035 Oct 12 22:12 9035 Oct 14 20:58	28° £ 31'48		desc. node	9036 Sep 04 14:19	11° ⊆ 11'31	21 30 20
minimum elong	9035 Oct 14 20:38 9035 Oct 14 19:38	28° ⊆ 31'48 28° ⊆ 33'47		retrograde	9036 Sep 11 16:46	13° £ 11'15	
morning rise	9035 Oct 23 06:54	24° ⊆ 38'07	3 37 36	evening set	9036 Sep 14 15:11	13° ⊆ 52'00	
direct	9035 Oct 26 03:22	24° ⊆ 18'01		inferior conj	9036 Sep 23 17:02	8° £ 52'25	-5°00'55
morning max el	9035 Nov 05 16:29	29° £ 15'52	20°15'48	minimum elong	9036 Sep 23 17:02 9036 Sep 23 08:41	9° ⊆ 04'06	
morning max cr	9035 Nov 06 10:35	0°M.	20 13 40	min. Earth dist.	9036 Sep 23 06:03		0.54770 AU
asc. node	9035 Nov 11 07:24	5°M53'57		morning rise	9036 Oct 02 03:33	5° ≏ 04'22	0.54770 AC
morning set	9035 Nov 24 02:47	28°M54'57		direct	9036 Oct 05 14:53	4° Ω 37'49	
morning set	9035 Nov 24 15:29	20 11 0 3∓37		morning max el	9036 Oct 17 16:43	10° ≏ 19'41	21°46'26
	7033 NOV 24 13.27	0 2		asc. node	9036 Oct 28 04:21	23° £ 57'55	21 40 20
superior conj	9035 Dec 01 17:21	14° ∡ °30'35	1°30'39	asc. node	9036 Oct 31 15:13	0° ™	
minimum elong	9035 Dec 01 17:21 9035 Dec 01 19:33	14° 🖍 30'33'	1°30'43	morning set	9036 Nov 07 12:30	13°M41'16	
max. Earth dist.	9035 Dec 07 05:25	25° 🗷 19'21	1.36596 AU	morning set	7030 NOV 07 12.30	13 141 10	
max. Darui dist.	9035 Dec 07 03:23 9035 Dec 09 17:09	23 メ ・1921	1.50570 AU	superior conj	9036 Nov 14 16:41	28°M51'26	1°39'06
evening rise	9035 Dec 05 17:05 9035 Dec 11 01:13	2° る 27'13		minimum elong	9036 Nov 14 17:37	28°M56'18	1°39'17
desc. node	9035 Dec 15 15:53	10° ට 36'54		minimum ciong	9036 Nov 15 05:47	0° ₹	1 37 17
dese. Hode	9035 Dec 27 19:24	0°≈		max. Earth dist.	9036 Nov 18 18:00	7° √ 12'47	1.34735 AU
evening max el	9036 Jan 15 15:32	23° ≈ 45'37	25°52'04	evening rise	9036 Nov 23 01:02	15°×739'36	1.54755710
evening max er	9036 Jan 24 03:28	0° ∀	25 52 04	evening rise	9036 Nov 30 22:53	0°る	
retrograde	9036 Jan 28 03:37	0°) 54′07		desc. node	9036 Dec 01 12:54	0°る59'48	
retrograde	9036 Jan 31 20:23	30°R≈		dese. Hode	9036 Dec 21 09:04	0°≈	
evening set	9036 Feb 03 05:02	28°≈25'22		evening max el	9036 Dec 28 04:58	0 ∞ 7° ≈ 28'06	26°48'27
asc. node	9036 Feb 07 06:34	24°≈06'07		retrograde	9037 Jan 10 08:25	14°≈46'58	20 4027
min. Earth dist.	9036 Feb 07 11:52	23°≈49'43	0.67144 AU	evening set	9037 Jan 16 21:21	12°≈12'16	
inferior conj	9036 Feb 08 23:05	21°≈58'54	0°33'15	min. Earth dist.	9037 Jan 20 22:12	8°≈11'11	0.65939 AU
minimum elong	9036 Feb 08 22:15	21 ≈36 34 22°≈01'32		inferior conj	9037 Jan 20 22:12 9037 Jan 22 21:08	5°≈54'15	
morning rise	9036 Feb 14 16:01	16°≈08'50	3 33 00	minimum elong	9037 Jan 22 21:51	5°≈52'10	
direct	9036 Feb 17 22:19	15°≈07'55		asc. node	9037 Jan 24 03:40	3 ≈32 10 4°≈26'25	3 2 (3)
morning max el	9036 Feb 24 17:11	13 ≈ 07 33 18° ≈ 50'03	18°54'00	morning rise	9037 Jan 28 23:24	0°≈15'28	
morning max ci	9036 Mar 04 11:27	0°)	10 5-100	morning fise	9037 Jan 29 12:32	0 ≈13 28 30°Rる	
desc. node	9036 Mar 12 15:42	12° ∺ 22'50		direct	9037 Jan 29 12:32 9037 Jan 31 19:48	30 KO 29° る 30'43	
morning set	9036 Mar 18 01:31	20°) 47'02		ancei	9037 Feb 03 03:51	29 ℃ 3043	
morning set	9036 Mar 23 23:25	20 π 4/02 0° Υ		morning max el	9037 Feb 03 03:31 9037 Feb 07 06:47	0 ≈ 2°≈57'16	18°14'51
	, 050 11101 25 25.25	V 1		morning max or	,05/1 0 0 0/ 00. 1 /	2 70.3 / 10	10 1731

	9037 Feb 25 19:15	0°) {		desc. node	9038 Feb 14 09:26	23° ≈ 20'25	
morning set	9037 Feb 26 11:04	1°) €03'41		dese. Hode	9038 Feb 18 10:49	0° ∺	
desc. node	9037 Feb 27 12:33	2°) 46'12			7050 1 C 0 10 10.47	٥ ٨	
dese. Hode	7037100 27 12.33	2 /(10 12		superior conj	9038 Feb 21 11:32	4°) 54′02	-0°50'14
superior conj	9037 Mar 13 18:39	25° ¥ 24'27	-1°32'06	minimum elong	9038 Feb 21 05:52	4°) (31'14	
minimum elong	9037 Mar 13 09:10	24°) (47'14		max. Earth dist.	9038 Feb 26 07:32		1.45022 AU
max. Earth dist.	9037 Mar 15 11:59	28°) (06'21	1.45557 AU	evening rise	9038 Mar 09 10:06	29°) 52'21	1.10022110
man. Darvir alov.	9037 Mar 16 17:02	0°Υ	1.10007110	e vening rise	9038 Mar 09 12:05	0°Υ	
evening rise	9037 Mar 29 20:18	20° Υ 30'09		greatest brilliancy	9038 Mar 24 07:42	22° Υ 18'00	-0.6m
	9037 Apr 04 22:30	0°8		<i>g. • •</i>	9038 Mar 29 18:36	0°8	
greatest brilliancy	9037 Apr 10 05:22	8° 8 09'00	-0.7m	evening max el	9038 Apr 05 13:10	8° 8 12'50	20°09'26
asc. node	9037 Apr 22 02:18	24° 8 15'30	****	asc. node	9038 Apr 08 23:25	11° 8 09'09	
evening max el	9037 Apr 22 09:23	24° 8 33'37	19°13'32	retrograde	9038 Apr 13 07:25	12° 8 42'37	
retrograde	9037 Apr 29 08:56	28° 8 29'31		evening set	9038 Apr 17 04:22	11° 8 15'38	
evening set	9037 May 02 21:10	27° 8 17'41		inferior conj	9038 Apr 22 12:14	5° 8 12'26	3°13'48
inferior conj	9037 May 08 08:11	21° 8 28'18	3°21'26	minimum elong	9038 Apr 22 11:03	5° 8 16'28	3°13'32
minimum elong	9037 May 08 08:02	21° 8 28'46	3°21'15	min. Earth dist.	9038 Apr 23 08:31	4° 8 03'37	0.67651 AU
min. Earth dist.	9037 May 09 18:51	19° 8 36'12	0.66562 AU	mm. Eurin dist.	9038 Apr 26 15:09	30°RY	0.07021710
morning rise	9037 May 13 18:30	15° 8 09'20	0.00302710	morning rise	9038 Apr 27 17:29	28° Y 54'55	
direct	9037 May 15 18:30 9037 May 20 00:08	12° 8 25'16		direct	9038 May 03 11:16	26° Υ 21'20	
desc. node	9037 May 26 12:32	14° 8 44'57		direct	9038 May 11 11:07	0° 8	
	9037 May 20 12:32 9037 Jun 01 16:05	19° 8 58'48	26°06'08	daga mada	9038 May 13 09:30	1° 8 41'02	
morning max el		19 O 3848	20 00 08	desc. node	,	3° 8 18'34	24942142
	9037 Jun 10 05:42	0.62		morning max el	9038 May 15 01:38	0° I	24-43-43
	9037 Jun 30 03:47				9038 Jun 04 10:27		
morning set	9037 Jul 07 17:44	13°527'21	1 25200 411	morning set	9038 Jun 19 23:28	25° II 23'47	
max. Earth dist.	9037 Jul 11 14:45	20°5548'01	1.35208 AU	no at the	9038 Jun 22 13:19	0.00	1 2722 (111
	9037 Jul 16 06:09	0 $^{\circ}\Omega$		max. Earth dist.	9038 Jun 23 14:15	1°953'21	1.37236 AU
	0027 I1 16 22.40	10 () 22/52	0920156		0020 I 20 07-40	1.496-25140	0952110
superior conj	9037 Jul 16 22:40	1° Ω 23'53		superior conj	9038 Jun 30 07:40	14°935'40	
minimum elong	9037 Jul 16 23:54	1° Ω 30′09	0°20'55	minimum elong	9038 Jun 30 11:00	14°951'55	0°52′50
asc. node	9037 Jul 19 01:25	5° Ω 44'05		asc. node	9038 Jul 05 22:23	25°9543'25	
evening rise	9037 Jul 24 16:43	17° Ω 25'48			9038 Jul 08 01:30	0°N	
	9037 Jul 31 00:56	0° m/y		evening rise	9038 Jul 08 19:41	1° Ω 31'03	
evening max el	9037 Aug 12 02:12	17° TD 36'25	20°29'59	evening max el	9038 Jul 25 16:02	29° Ω 02'17	19°23'02
desc. node	9037 Aug 22 11:28	23° Tp 05'32		_	9038 Jul 26 16:39	0° m	
retrograde	9037 Aug 23 05:03	23°Mp 06'55		retrograde	9038 Aug 04 02:10	3° m 42'06	
evening set	9037 Aug 25 06:02	22° M 56'34		evening set	9038 Aug 05 22:31	3° Mg 32'06	
inferior conj	9037 Sep 03 09:59	18° Mp 59′23	-3°31'36	desc. node	9038 Aug 09 08:37	2° m/26'00	
minimum elong	9037 Sep 03 00:55	19° Mp 12'30			9038 Aug 13 16:16	30°R Ω	
min. Earth dist.	9037 Sep 04 15:10	18° Mp 17′08	0.54788 AU	inferior conj	9038 Aug 14 14:09	29° Ω 24'36	
morning rise	9037 Sep 11 19:23	14° Mp 56'24		minimum elong	9038 Aug 14 09:49	29° Ω 31'40	
direct	9037 Sep 15 23:38	14° Mp 18'59		min. Earth dist.	9038 Aug 17 03:42	27° Ω 44'39	0.55744 AU
morning max el	9037 Sep 29 07:29	20° Mp 45'34	23°30'53	morning rise	9038 Aug 22 18:25	24° Ω 48'47	
	9037 Oct 07 04:32	0∘ ⊽		direct	9038 Aug 27 18:06	23° Ω 52'21	
asc. node	9037 Oct 15 01:16	12° ≏ 42'01			9038 Sep 09 18:36	O° m	
morning set	9037 Oct 23 00:01	28° ₽ 30'52		morning max el	9038 Sep 10 19:44	0° m 57′54	25°15'09
	9037 Oct 23 16:45	0°M			9038 Sep 30 22:10	0° ⊽	
				asc. node	9038 Oct 01 22:12	1° ≙ 55'32	
superior conj	9037 Oct 29 22:26	13°M29'34	1°40'41	morning set	9038 Oct 07 11:37	13° ≙ 17'57	
minimum elong	9037 Oct 29 22:07	13°M27'53	1°40'51				
max. Earth dist.	9037 Nov 01 14:41	19°M13'14	1.33267 AU	superior conj	9038 Oct 14 08:07	28° ≏ 16'43	1°36'07
evening rise	9037 Nov 06 13:36	29°M25'42		minimum elong	9038 Oct 14 06:47	28° ≏ 09'25	1°36'09
	9037 Nov 06 20:30	0° ∡ ¹			9038 Oct 15 02:55	0° M.	
desc. node	9037 Nov 18 09:59	21° ∡ ¹05'16		max. Earth dist.	9038 Oct 15 18:37	1°M25'59	1.32248 AU
	9037 Nov 24 01:10	8°0		evening rise	9038 Oct 21 11:34	13°M36'11	
evening max el	9037 Dec 10 17:37	20° る 53'54	27°22'33		9038 Oct 29 23:02	0° ∡ ¹	
retrograde	9037 Dec 24 07:02	28° る 14'39		desc. node	9038 Nov 05 07:05	10° ∡ ¹45'09	
evening set	9037 Dec 31 04:52	25° ප් 40'21			9038 Nov 19 10:09	0°ರ	
min. Earth dist.	9038 Jan 04 00:34	22° る 12'17	0.64386 AU	evening max el	9038 Nov 23 03:41	3°₹50'32	27°28'03
inferior conj	9038 Jan 06 11:08	19° る 36'49		retrograde	9038 Dec 06 22:52	11° る 07'36	
minimum elong	9038 Jan 06 13:57	19° る 29'18		evening set	9038 Dec 14 00:40	8° る 42'39	
asc. node	9038 Jan 11 00:43	15° る 20'59	- -	min. Earth dist.	9038 Dec 17 17:18	5° ರ 43'00	0.62529 AU
morning rise	9038 Jan 13 00:44	14°る12'08		inferior conj	9038 Dec 20 14:14	2° る 59'25	
direct	9038 Jan 15 13:06	13°る39'49		minimum elong	9038 Dec 20 19:28	2° ප් 46'58	
morning max el	9038 Jan 21 23:44		17°52'41	Ciong	9038 Dec 20 13:28 9038 Dec 23 23:20	2 ○ 40 30	_ 5,52
	9038 Jan 31 09:54	0°≈	1, 22 11	morning rise	9038 Dec 27 16:29	27° ₹ 751'51	
morning set	9038 Feb 08 01:32	0 ∞ 12°≈45'19		asc. node	9038 Dec 27 10:29 9038 Dec 28 21:46	27° 🗷 31'31'	
morning set	7050100 00 01.52	12 1413 17		abo. Houc	7030 Dec 20 21.40	2, 53344	

direct	9038 Dec 29 23:11 9039 Jan 04 17:10	27° ₰ 28'14 0° ड		minimum elong morning rise	9039 Dec 03 10:17 9039 Dec 10 18:03	15° 尽 38'27 11° 尽 05'56	3°50'50
morning max el	9039 Jan 05 16:57	0° る 54'50	17°48'08	direct	9039 Dec 12 22:21	10° х 47′23	
morning set	9039 Jan 21 15:30	25° る 34'14		asc. node	9039 Dec 15 18:50	11° ≮ ¹20'38	
	9039 Jan 24 03:40	0° ≈		morning max el	9039 Dec 20 07:01	14° ∡ ¹27'37	18°02'13
desc. node	9039 Feb 01 06:23	14° ≈ 01'32			9039 Dec 30 22:04	0°ರ	
				morning set	9040 Jan 04 22:27	9° る 10'45	
superior conj	9039 Feb 02 04:02	15° ≈ 32'45				_	
minimum elong	9039 Feb 02 03:23	15° ≈ 30′02	0°06'24	superior conj	9040 Jan 14 21:32	27° る 22'15	0°31'30
behind sun begin	9039 Feb 01 19:05	14° ≈ 55′04		minimum elong	9040 Jan 14 23:57	27° る 32'58	0°31'23
behind sun end	9039 Feb 02 11:42	16°≈04'55			9040 Jan 16 09:22	0° ≈	
max. Earth dist.	9039 Feb 09 00:03	26°≈47'21	1.43808 AU	desc. node	9040 Jan 19 03:19	4°≈45'30	
	9039 Feb 11 00:07	0°)(20)21		max. Earth dist.	9040 Jan 22 12:13	10°≈27'10	1.42060 AU
evening rise	9039 Feb 16 22:49	9° ¥ 20′21 0° Υ		evening rise	9040 Jan 28 00:42	19° ≈ 27'40 0°) €	
arranina marral	9039 Mar 02 16:57 9039 Mar 19 11:27	0° γ 21° Υ 53'41	21°18'09		9040 Feb 03 18:41 9040 Feb 25 04:47	0° Υ	
evening max el asc. node	9039 Mar 26 20:32	26°Y54'05	21 1809	evening max el	9040 Feb 23 04.47 9040 Mar 01 05:02	5° Υ 36'30	22°35'29
retrograde	9039 Mar 28 05:50	20 γ 34 03 27° Υ 03'48		retrograde	9040 Mar 11 02:24	11° Υ 28'00	22 33 29
evening set	9039 Apr 01 12:36	25° Υ 21'37		asc. node	9040 Mar 12 17:41	11° Y 14'39	
inferior conj	9039 Apr 06 19:44		2°55'09	evening set	9040 Mar 15 20:14	9° Υ 30'51	
minimum elong	9039 Apr 06 17:49	19° Υ 13'37	2°54'42	inferior conj	9040 Mar 21 04:33	3° Υ 07'43	2°26'46
min. Earth dist.	9039 Apr 07 02:46	18° Υ 42'33	0.68293 AU	minimum elong	9040 Mar 21 02:19	3° Υ 15'27	2°26'10
morning rise	9039 Apr 11 22:50	12°Υ52'51	0.002/0110	min. Earth dist.	9040 Mar 20 23:15	3°Y26'08	0.68499 AU
direct	9039 Apr 17 03:12	10° Υ 36'36		mm. Burur uibv.	9040 Mar 23 12:21	30° R ₩	0.001,55110
morning max el	9039 Apr 27 11:15	16° Ƴ 45'22	23°14'07	morning rise	9040 Mar 26 08:16	26° ¥ 58'30	
desc. node	9039 Apr 30 06:26	19° Ƴ 45'57		direct	9040 Mar 30 22:50	25°) €03'26	
	9039 May 08 09:51	0°8			9040 Apr 08 15:58	0 ° $\mathbf{\Upsilon}$	
	9039 May 28 11:16	$\Pi^{\circ}0$		morning max el	9040 Apr 09 00:03	0° Y 20′01	21°46'40
morning set	9039 Jun 01 06:18	6° Ⅱ 15′09		desc. node	9040 Apr 16 03:21	8° Y 40'06	
max. Earth dist.	9039 Jun 05 10:15	13° Ⅱ 20'47	1.39485 AU		9040 May 01 04:39	0°8	
				morning set	9040 May 11 10:01	15° 8 50'56	
superior conj	9039 Jun 13 02:16	27° Ⅲ 04'58	-1°24'49	max. Earth dist.	9040 May 17 10:09	25° 8 37'43	1.41689 AU
minimum elong	9039 Jun 13 07:36	27° Ⅱ 29'36	1°24'19		9040 May 20 00:47	Π $\circ 0$	
	9039 Jun 14 15:55	0°ಲಾ					
	, , , , , , , , , , , , , , , , , , , ,						
evening rise	9039 Jun 22 14:35	15° © 10'15		superior conj	9040 May 25 01:53	8° Ⅱ 40′52	
evening rise asc. node	9039 Jun 22 14:35 9039 Jun 22 19:25	15° © 33'28		minimum elong	9040 May 25 07:51	9° Ⅱ 07'00	-1°52'03 1°51'45
asc. node	9039 Jun 22 14:35 9039 Jun 22 19:25 9039 Jun 30 15:06	15° © 33′28 0° Ω			9040 May 25 07:51 9040 Jun 04 21:39	9° Д 07'00 28° Д 13'40	
asc. node evening max el	9039 Jun 22 14:35 9039 Jun 22 19:25 9039 Jun 30 15:06 9039 Jul 08 17:23	15°€33'28 0°Ω 11°Ω11'55	18°37'03	minimum elong evening rise	9040 May 25 07:51 9040 Jun 04 21:39 9040 Jun 05 20:46	9°∏07'00 28°∏13'40 0°€	
asc. node evening max el retrograde	9039 Jun 22 14:35 9039 Jun 22 19:25 9039 Jun 30 15:06 9039 Jul 08 17:23 9039 Jul 16 16:39	15°\$33'28 0°Ω 11°Ω11'55 15°Ω09'56	18°37'03	minimum elong evening rise asc. node	9040 May 25 07:51 9040 Jun 04 21:39 9040 Jun 05 20:46 9040 Jun 08 16:27	9°∏07'00 28°∏13'40 0°© 5°©09'11	1°51'45
asc. node evening max el retrograde evening set	9039 Jun 22 14:35 9039 Jun 22 19:25 9039 Jun 30 15:06 9039 Jul 08 17:23 9039 Jul 16 16:39 9039 Jul 18 17:57	15°\$33'28 0°\$\Omega\$ 11°\$\Omega\$11'55 15°\$\Omega\$09'56 14°\$\Omega\$5'00		minimum elong evening rise asc. node evening max el	9040 May 25 07:51 9040 Jun 04 21:39 9040 Jun 05 20:46 9040 Jun 08 16:27 9040 Jun 21 02:23	9° 1107'00 28° 1113'40 0° 50 5° 509'11 23° 56'07	
asc. node evening max el retrograde evening set inferior conj	9039 Jun 22 14:35 9039 Jun 22 19:25 9039 Jun 30 15:06 9039 Jul 08 17:23 9039 Jul 16 16:39 9039 Jul 18 17:57 9039 Jul 26 14:25	15°©33'28 0°N 11°N11'55 15°N09'56 14°N55'00	0°11'34	minimum elong evening rise asc. node evening max el retrograde	9040 May 25 07:51 9040 Jun 04 21:39 9040 Jun 05 20:46 9040 Jun 08 16:27 9040 Jun 21 02:23 9040 Jun 28 01:55	9°II07'00 28°II13'40 0°S 5°S09'11 23°S56'07 27°S27'42	1°51'45
asc. node evening max el retrograde evening set inferior conj minimum elong	9039 Jun 22 14:35 9039 Jun 22 19:25 9039 Jun 30 15:06 9039 Jul 08 17:23 9039 Jul 16 16:39 9039 Jul 18 17:57 9039 Jul 26 14:25 9039 Jul 26 14:51	15°\$33'28 0°\$A 11°\$\O11'55 15°\$\O9'56 14°\$\O55'00 10°\$\O29'07 10°\$\O28'17	0°11'34 0°11'11	minimum elong evening rise asc. node evening max el retrograde evening set	9040 May 25 07:51 9040 Jun 04 21:39 9040 Jun 05 20:46 9040 Jun 08 16:27 9040 Jun 21 02:23 9040 Jun 28 01:55 9040 Jun 30 10:49	9°II07'00 28°II13'40 0°© 5°©09'11 23°©56'07 27°©27'42 27°©03'55	1°51'45 18°11'26
asc. node evening max el retrograde evening set inferior conj minimum elong transit middle	9039 Jun 22 14:35 9039 Jun 22 19:25 9039 Jun 30 15:06 9039 Jul 08 17:23 9039 Jul 16 16:39 9039 Jul 18 17:57 9039 Jul 26 14:25 9039 Jul 26 14:51 9039 Jul 26 14:51	15°@33'28 0° N 11° N11'55 15° N09'56 14° N55'00 10° N29'07 10° N28'17 10° N28'17	0°11'34 0°11'11	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj	9040 May 25 07:51 9040 Jun 04 21:39 9040 Jun 05 20:46 9040 Jun 08 16:27 9040 Jun 21 02:23 9040 Jun 28 01:55 9040 Jun 30 10:49 9040 Jul 07 12:13	9°I07'00 28°I13'40 0°S 5°S09'11 23°S56'07 27°S27'42 27°S03'55 22°S17'16	1°51'45 18°11'26 1°35'31
asc. node evening max el retrograde evening set inferior conj minimum elong transit middle transit begin	9039 Jun 22 14:35 9039 Jun 22 19:25 9039 Jun 30 15:06 9039 Jul 08 17:23 9039 Jul 16 16:39 9039 Jul 18 17:57 9039 Jul 26 14:25 9039 Jul 26 14:51 9039 Jul 26 14:51 9039 Jul 26 12:14	15°@33'28 0° N 11° N11'55 15° N09'56 14° N55'00 10° N29'07 10° N28'17 10° N33'15	0°11'34 0°11'11	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	9040 May 25 07:51 9040 Jun 04 21:39 9040 Jun 05 20:46 9040 Jun 08 16:27 9040 Jun 21 02:23 9040 Jun 28 01:55 9040 Jun 30 10:49 9040 Jul 07 12:13 9040 Jul 07 14:55	9°I07'00 28°I13'40 0°S 5°S09'11 23°S56'07 27°S27'42 27°S03'55 22°S17'16 22°S11'16	1°51'45 18°11'26 1°35'31 1°34'24
asc. node evening max el retrograde evening set inferior conj minimum elong transit middle transit begin transit end	9039 Jun 22 14:35 9039 Jun 22 19:25 9039 Jun 30 15:06 9039 Jul 08 17:23 9039 Jul 16 16:39 9039 Jul 18 17:57 9039 Jul 26 14:25 9039 Jul 26 14:51 9039 Jul 26 12:14 9039 Jul 26 17:27	15°©33'28 0° N 11° N11'55 15° N09'56 14° N55'00 10° N29'07 10° N28'17 10° N33'15 10° N23'19	0°11'34 0°11'11	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	9040 May 25 07:51 9040 Jun 04 21:39 9040 Jun 05 20:46 9040 Jun 08 16:27 9040 Jun 21 02:23 9040 Jun 28 01:55 9040 Jun 30 10:49 9040 Jul 07 12:13 9040 Jul 07 14:55 9040 Jul 10 20:46	9°II07'00 28°II13'40 0°S 5°S09'11 23°S56'07 27°S27'42 27°S03'55 22°S17'16 22°S11'16 19°S19'53	1°51'45 18°11'26 1°35'31
asc. node evening max el retrograde evening set inferior conj minimum elong transit middle transit begin transit end desc. node	9039 Jun 22 14:35 9039 Jun 22 19:25 9039 Jun 30 15:06 9039 Jul 08 17:23 9039 Jul 16 16:39 9039 Jul 18 17:57 9039 Jul 26 14:25 9039 Jul 26 14:51 9039 Jul 26 12:14 9039 Jul 26 17:27 9039 Jul 27 05:44	15°©33'28 0° N 11° N11'55 15° N09'56 14° N55'00 10° N29'07 10° N28'17 10° N33'15 10° N23'19 9° N59'52	0°11'34 0°11'11 0°11'11	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node	9040 May 25 07:51 9040 Jun 04 21:39 9040 Jun 05 20:46 9040 Jun 08 16:27 9040 Jun 21 02:23 9040 Jun 28 01:55 9040 Jun 30 10:49 9040 Jul 07 12:13 9040 Jul 07 14:55 9040 Jul 10 20:46 9040 Jul 13 02:50	9°II07'00 28°II13'40 0°95 5°9509'11 23°956'07 27°927'42 27°9503'55 22°9517'16 22°9511'16 19°9519'53 17°9534'24	1°51'45 18°11'26 1°35'31 1°34'24
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asc. node evening max el retrograde evening set inferior conj minimum elong transit middle transit begin transit end desc. node min. Earth dist. morning rise	9039 Jun 22 14:35 9039 Jun 22 19:25 9039 Jun 30 15:06 9039 Jul 08 17:23 9039 Jul 16 16:39 9039 Jul 18 17:57 9039 Jul 26 14:25 9039 Jul 26 14:51 9039 Jul 26 12:14 9039 Jul 26 17:27 9039 Jul 27 05:44 9039 Jul 29 21:03 9039 Aug 03 08:13	15°@33'28 0°A 11°A11'55 15°A09'56 14°A55'00 10°A29'07 10°A28'17 10°A33'15 10°A23'19 9°A59'52 8°A00'42 5°A16'14 3°A52'08	0°11'34 0°11'11 0°11'11 0.57458 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct	9040 May 25 07:51 9040 Jun 04 21:39 9040 Jun 05 20:46 9040 Jun 08 16:27 9040 Jun 21 02:23 9040 Jun 28 01:55 9040 Jun 30 10:49 9040 Jul 07 12:13 9040 Jul 07 14:55 9040 Jul 10 20:46 9040 Jul 13 02:50 9040 Jul 14 16:00 9040 Jul 21 01:47	9°H07'00 28°H13'40 0°9 5°909'11 23°956'07 27°927'42 27°903'55 22°911'16 19°919'53 17°934'24 16°933'48 14°938'53 22°930'28	1°51'45 18°11'26 1°35'31 1°34'24 0.59608 AU
asc. node evening max el retrograde evening set inferior conj minimum elong transit middle transit begin transit end desc. node min. Earth dist. morning rise direct	9039 Jun 22 14:35 9039 Jun 30 15:06 9039 Jul 08 17:23 9039 Jul 16 16:39 9039 Jul 18 17:57 9039 Jul 26 14:25 9039 Jul 26 14:51 9039 Jul 26 14:51 9039 Jul 26 17:27 9039 Jul 26 17:27 9039 Jul 27 05:44 9039 Jul 29 21:03 9039 Aug 03 08:13 9039 Aug 09 03:22 9039 Aug 23 11:40	15°@33'28 0°A 11°A11'55 15°A09'56 14°A55'00 10°A29'07 10°A28'17 10°A33'15 10°A23'19 9°A59'52 8°A00'42 5°A16'14 3°A52'08 11°A25'50	0°11'34 0°11'11 0°11'11 0.57458 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct	9040 May 25 07:51 9040 Jun 04 21:39 9040 Jun 05 20:46 9040 Jun 08 16:27 9040 Jun 21 02:23 9040 Jun 28 01:55 9040 Jun 30 10:49 9040 Jul 07 12:13 9040 Jul 07 14:55 9040 Jul 10 20:46 9040 Jul 13 02:50 9040 Jul 14 16:00 9040 Jul 21 01:47 9040 Aug 04 10:15 9040 Aug 11 01:20	9°H07'00 28°H13'40 0°\$ 5°\$09'11 23°\$56'07 27°\$27'42 27°\$03'55 22°\$11'16 19°\$19'53 17°\$34'24 16°\$33'48 14°\$38'53 22°\$30'28 0°\$\mathcal{L}\$	1°51'45 18°11'26 1°35'31 1°34'24 0.59608 AU
asc. node evening max el retrograde evening set inferior conj minimum elong transit middle transit begin transit end desc. node min. Earth dist. morning rise direct morning max el	9039 Jun 22 14:35 9039 Jun 22 19:25 9039 Jun 30 15:06 9039 Jul 08 17:23 9039 Jul 16 16:39 9039 Jul 18 17:57 9039 Jul 26 14:25 9039 Jul 26 14:51 9039 Jul 26 12:14 9039 Jul 26 17:27 9039 Jul 27 05:44 9039 Jul 29 21:03 9039 Aug 03 08:13 9039 Aug 09 03:22 9039 Aug 23 11:40 9039 Sep 06 21:29	15°\$33'28 0°\$\Omega\$ 11°\$\Omega\$11'55 15°\$\Omega\$09'56 14°\$\Omega\$55'00 10°\$\Omega\$29'07 10°\$\Omega\$28'17 10°\$\Omega\$28'17 10°\$\Omega\$3'15 10°\$\Omega\$23'19 9°\$\Omega\$59'52 8°\$\Omega\$00'42 5°\$\Omega\$16'14 3°\$\Omega\$52'08 11°\$\Omega\$25'50 0°\$\Omega\$	0°11'34 0°11'11 0°11'11 0.57458 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el	9040 May 25 07:51 9040 Jun 04 21:39 9040 Jun 05 20:46 9040 Jun 08 16:27 9040 Jun 21 02:23 9040 Jun 28 01:55 9040 Jun 30 10:49 9040 Jul 07 12:13 9040 Jul 07 14:55 9040 Jul 10 20:46 9040 Jul 13 02:50 9040 Jul 14 16:00 9040 Jul 21 01:47 9040 Aug 04 10:15 9040 Aug 11 01:20 9040 Aug 29 23:16	9°H07'00 28°H13'40 0°\$ 5°\$09'11 23°\$56'07 27°\$27'42 27°\$03'55 22°\$11'16 19°\$19'53 17°\$34'24 16°\$33'48 14°\$38'53 22°\$30'28 0°\$\lambda\$ 0°\$\lambda\$	1°51'45 18°11'26 1°35'31 1°34'24 0.59608 AU
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asc. node evening max el 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 superior conj minimum elong max. Earth dist. evening rise desc. node	9039 Jun 22 14:35 9039 Jun 30 15:06 9039 Jul 08 17:23 9039 Jul 16 16:39 9039 Jul 18 17:57 9039 Jul 26 14:25 9039 Jul 26 14:51 9039 Jul 26 14:51 9039 Jul 26 12:14 9039 Jul 26 17:27 9039 Jul 27 05:44 9039 Jul 29 21:03 9039 Aug 03 08:13 9039 Aug 03 08:13 9039 Aug 03 08:13 9039 Sep 06 21:29 9039 Sep 18 19:08 9039 Sep 21 21:40 9039 Sep 22 20:32 9039 Sep 28 17:42 9039 Sep 28 17:42 9039 Sep 29 03:17 9039 Oct 05 16:10 9039 Oct 06 14:20 9039 Oct 23 07:06 9039 Nov 05 08:51 9039 Nov 19 06:43	15°\$33'28 0°\$\alpha\$ 11°\$\alpha\$11'55 15°\$\alpha\$09'56 14°\$\alpha\$55'00 10°\$\alpha\$29'07 10°\$\alpha\$28'17 10°\$\alpha\$28'17 10°\$\alpha\$28'17 10°\$\alpha\$28'17 10°\$\alpha\$23'19 9°\$\alpha\$59'52 8°\$\alpha\$00'42 5°\$\alpha\$16'14 3°\$\alpha\$52'08 11°\$\alpha\$25'50 0°\$\mathref{m}\$25'50 0°\$\mathref{m}\$21'0\$\mathref{m}\$30'45 27°\$\mathref{m}\$57'52 0°\$\mathref{m}\$ 13°\$\mathref{m}\$26'35 12°\$\mathref{m}\$55'30 13°\$\mathref{m}\$48'43 28°\$\mathref{m}\$03'40 0°\$\mathref{m}\$ 29°\$\mathref{m}\$49'13 0°\$\scrip*\$ 16°\$\scrip*\$06'22 23°\$\scrip*\$16'32	0°11'34 0°11'11 0°11'11 0.57458 AU 26°42'06 1°25'56 1°25'45 1.31694 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node evening max el	9040 May 25 07:51 9040 Jun 04 21:39 9040 Jun 05 20:46 9040 Jun 08 16:27 9040 Jun 21 02:23 9040 Jun 28 01:55 9040 Jun 30 10:49 9040 Jul 07 12:13 9040 Jul 07 14:55 9040 Jul 10 20:46 9040 Jul 13 02:50 9040 Jul 14 16:00 9040 Jul 21 01:47 9040 Aug 04 10:15 9040 Aug 11 01:20 9040 Aug 11 01:20 9040 Sep 05 04:28 9040 Sep 12 07:20 9040 Sep 12 07:20 9040 Sep 12 07:06 9040 Sep 12 05:06 9040 Sep 13 06:10 9040 Sep 19 01:05 9040 Sep 27 17:11 9040 Oct 09 01:21 9040 Oct 17 06:39 9040 Oct 20 02:26 9040 Oct 31 04:40	9° H07'00 28° H13'40 0° 95 5° 909'11 23° 956'07 27° 927'42 27° 903'55 22° 911'16 19° 919'53 17° 934'24 16° 933'48 14° 938'53 22° 930'28 0° N 0° M 11° M21'18 12° M25'53 26° M13'09 27° M53'20 27° M40'52 0° L 12° 41'29 0° M 18° M03'31 27° M32'48 0° \nadalage 12° \nadalage 13' 15' 15' 15' 15' 15' 15' 15' 15' 15' 15	1°51'45 18°11'26 1°35'31 1°34'24 0.59608 AU 27°38'06 1.31603 AU 1°10'32 1°10'10
asc. node evening max el 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 superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	9039 Jun 22 14:35 9039 Jun 30 15:06 9039 Jul 08 17:23 9039 Jul 16 16:39 9039 Jul 18 17:57 9039 Jul 26 14:25 9039 Jul 26 14:51 9039 Jul 26 14:51 9039 Jul 26 12:14 9039 Jul 26 17:27 9039 Jul 27 05:44 9039 Jul 29 21:03 9039 Aug 03 08:13 9039 Aug 09 03:22 9039 Aug 09 03:22 9039 Sep 18 19:08 9039 Sep 21 21:40 9039 Sep 21 21:40 9039 Sep 22 20:32 9039 Sep 28 17:42 9039 Sep 28 17:42 9039 Sep 28 17:42 9039 Sep 29 03:17 9039 Oct 05 16:10 9039 Oct 06 14:20 9039 Oct 23 07:06 9039 Nov 05 08:51 9039 Nov 19 06:43 9039 Nov 26 04:58	15°\$33'28 0°\$\alpha\$ 11°\$\alpha\$11'55 15°\$\alpha\$09'56 14°\$\alpha\$55'00 10°\$\alpha\$29'07 10°\$\alpha\$28'17 10°\$\alpha\$28'17 10°\$\alpha\$28'17 10°\$\alpha\$28'17 10°\$\alpha\$23'19 9°\$\alpha\$59'52 8°\$\alpha\$00'42 5°\$\alpha\$16'14 3°\$\alpha\$52'08 11°\$\alpha\$25'50 0°\$\mathref{m}\$25'50 0°\$\mathref{m}\$21'0\$\mathref{m}\$30'45 27°\$\mathref{m}\$57'52 0°\$\mathref{m}\$ 13°\$\mathref{m}\$26'35 12°\$\mathref{m}\$55'30 13°\$\mathref{m}\$48'43 28°\$\mathref{m}\$03'40 0°\$\mathref{m}\$ 29°\$\mathref{m}\$49'13 0°\$\sqrt{n}\$ 16°\$\sqrt{0}6'22 23°\$\sqrt{1}6'32 21°\$\sqrt{1}1'28	0°11'34 0°11'11 0°11'11 0.57458 AU 26°42'06 1°25'56 1°25'45 1.31694 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node evening rise	9040 May 25 07:51 9040 Jun 04 21:39 9040 Jun 05 20:46 9040 Jun 08 16:27 9040 Jun 21 02:23 9040 Jun 28 01:55 9040 Jun 30 10:49 9040 Jul 07 12:13 9040 Jul 07 14:55 9040 Jul 10 20:46 9040 Jul 13 02:50 9040 Jul 14 16:00 9040 Jul 21 01:47 9040 Aug 04 10:15 9040 Aug 11 01:20 9040 Aug 11 01:20 9040 Sep 05 04:28 9040 Sep 12 07:20 9040 Sep 12 07:20 9040 Sep 12 07:20 9040 Sep 13 06:10 9040 Sep 19 01:05 9040 Sep 17 17:11 9040 Oct 17 06:39 9040 Oct 20 02:26 9040 Nov 06 13:06	9° H07'00 28° H13'40 0° 9° 5° 909'11 23° 956'07 27° 927'42 27° 903'55 22° 911'16 19° 919'53 17° 934'24 16° 933'48 14° 938'53 22° 930'28 0° Ω 0° m 11° m 21'18 12° m 25'53 26° m 13'09 27° m 40'52 0° Ω 12° Ω41'29 0° M 18° M03'31 27° M32'48 0° ₹ 4° ₹35'51 3° ₹00'17	1°51'45 18°11'26 1°35'31 1°34'24 0.59608 AU 27°38'06 1.31603 AU 1°10'32 1°10'10
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inforior coni	9040 Nov 13 22:16	28°M09'44	1055150	inforior coni	9041 Oct 25 21:08	9°M38'26	5924120
inferior conj	9040 Nov 14 05:23	28 11609 44 27° ML 56'48		inferior conj minimum elong	9041 Oct 25 21:08 9041 Oct 26 00:05	9°M33'45	
minimum elong		23°M44'37	4 34 11	morning rise		5°M35'31	3 34 09
morning rise direct	9040 Nov 21 24:00	23°M27'51		direct	9041 Nov 03 05:30 9041 Nov 05 19:27	5°M17'29	
asc. node	9040 Nov 24 06:24 9040 Dec 01 15:52	26°ML39'07				9°M51'55	19°33'06
morning max el	9040 Dec 01 13.32 9040 Dec 02 14:17	20 IIL3907 27°IIL30'23	18°36'36	morning max el asc. node	9041 Nov 15 11:04 9041 Nov 18 12:51	13°ML13'54	19 33 00
morning max ei			18-30-30	asc. node		13°11⊾13'54 0° √ 7	
	9040 Dec 04 21:14 9040 Dec 18 17:15	0° ∡ ¹ 23° ∡ ¹20'01			9041 Nov 28 20:40	0° × ¹ 7° × ¹49'48	
morning set	9040 Dec 18 17.13 9040 Dec 22 03:44	23 x·2001 0°る		morning set	9041 Dec 02 19:58	/ X·4946	
	9040 Dec 22 03.44	0.0			9041 Dec 10 18:57	23° ∡ ¹47'14	1°22'20
avmariar aani	9040 Dec 27 12:13	10°る12'08	1°01'20	superior conj	9041 Dec 10 18.37 9041 Dec 10 21:45		1°22'17
superior conj minimum elong	9040 Dec 27 12:13 9040 Dec 27 15:31	10 31208 10° 3 27'34	1°01'08	minimum elong		24 x ・01 01 0°る	1 22 17
2				Double diet	9041 Dec 13 23:57	5° る 48'01	1 27707 ATT
max. Earth dist.	9041 Jan 03 20:16	23°₹27'41	1.39978 AU	max. Earth dist.	9041 Dec 17 02:11		1.37797 AU
desc. node	9041 Jan 05 00:17	25° る 29'10		evening rise	9041 Dec 20 19:29	12° る 30'56	
evening rise	9041 Jan 07 23:23	0°≈31'20		desc. node	9041 Dec 22 21:15	16°る08'12	
	9041 Jan 07 15:54	0° ≈			9041 Dec 31 07:27	0° ≈	
	9041 Jan 27 04:07	0° ∀	22077142		9042 Jan 22 07:51	0°) (10110	25012121
evening max el	9041 Feb 11 19:33	19° ¥ 22'31	23°55'43	evening max el	9042 Jan 25 08:43	3°) 10′19	25°12'21
retrograde	9041 Feb 22 19:47	25° ₩ 51'09		retrograde	9042 Feb 06 09:02	10°) €07'39	
asc. node	9041 Feb 27 14:49	24°) €01'59		evening set	9042 Feb 12 03:30	7°) 44′04	
evening set	9041 Feb 28 01:43	23°) 39'48		asc. node	9042 Feb 14 11:57	5° ∺ 22'36	
min. Earth dist.	9041 Mar 04 19:45	18° ∺ 09'49	0.68289 AU	min. Earth dist.	9042 Feb 16 14:01	2°) 48'49	0.67673 AU
inferior conj	9041 Mar 05 12:49	17° ∺ 11'46	1°49'24	inferior conj	9042 Feb 17 18:42	1° ∺ 15′29	1°03'27
minimum elong	9041 Mar 05 10:44	17° ∺ 18'53	1°48'46	minimum elong	9042 Feb 17 17:14	1° ∺ 20′15	1°03'02
morning rise	9041 Mar 10 19:45	11° ∺ 08'50			9042 Feb 18 18:06	30°R ≈	
direct	9041 Mar 14 20:55	9°) 36′06		morning rise	9042 Feb 23 07:18	25° ≈ 20′25	
morning max el	9041 Mar 22 19:28	14°) €06'34	20°28'31	direct	9042 Feb 26 20:03	24° ≈ 08'47	
desc. node	9041 Apr 03 00:15	28° ∺ 10′09		morning max el	9042 Mar 05 22:52	28° ≈ 04'54	19°24'02
	9041 Apr 04 07:09	0 ° Υ			9042 Mar 07 18:16	0° ∀	
morning set	9041 Apr 20 14:17	24° Y 25′15		greatest brilliancy	9042 Mar 18 18:20	14° ¥ 56′25	-0.7m
	9041 Apr 24 04:08	$_{0\circ}$ 8		desc. node	9042 Mar 20 21:07	18°) €06'14	
max. Earth dist.	9041 Apr 29 17:30	8° 8 50'02	1.43562 AU		9042 Mar 28 16:23	0 ° Υ	
				morning set	9042 Mar 30 13:10	2° Y 52′23	
superior conj	9041 May 06 02:10	19° 8 14'09	-2°09'23	max. Earth dist.	9042 Apr 12 07:21	22° Ƴ 45′10	1.44880 AU
minimum elong	9041 May 06 05:32	19° 8 28'07	2°09'29				
	9041 May 12 11:04	$\Pi^{\circ}0$		superior conj	9042 Apr 16 02:08	28° Ƴ 45'14	-2°10'30
evening rise	9041 May 18 12:24	10° 耳 31′06		minimum elong	9042 Apr 15 22:56	28° Ƴ 32'32	2°10'32
asc. node	9041 May 26 13:31	24° Ⅱ 25'06			9042 Apr 16 20:51	0°8	
	9041 May 30 01:47	0ංම		evening rise	9042 Apr 30 06:11	21° 8 52'59	
evening max el	9041 Jun 04 15:12	7° © 04'58	18°05'16	C	9042 May 05 03:07	$\Pi^{\circ}0$	
retrograde	9041 Jun 11 02:34	10°925'57		asc. node	9042 May 13 10:36	13° Ⅱ 14'27	
evening set	9041 Jun 13 19:03	9° © 50'36		evening max el	9042 May 19 04:33	20° Ⅲ 30′03	18°17'51
inferior conj	9041 Jun 20 04:43	4°5544'11	2°32'19	retrograde	9042 May 25 13:56	23° Ⅱ 54'49	
minimum elong	9041 Jun 20 07:33	4° © 36'58	2°31'23	evening set	9042 May 28 13:47	23° Ⅱ 06'11	
min. Earth dist.	9041 Jun 23 04:51	1°5541'28	0.61863 AU	inferior conj	9042 Jun 03 11:47	17° Ⅱ 41'53	3°05'35
	9041 Jun 25 01:07	30° Ŗ Ⅱ		minimum elong	9042 Jun 03 13:39	17° Ⅱ 36'35	3°05'04
morning rise	9041 Jun 26 17:58	28° II 40'18		min. Earth dist.	9042 Jun 05 22:25	14° I 55'09	0.63956 AU
desc. node	9041 Jun 29 23:54	26° ∏ 55'44		morning rise	9042 Jun 09 12:17	11° II 27'06	0.05/50110
direct	9041 Jul 03 11:01	26° Ⅱ 18'21		direct	9042 Jun 16 05:18	8° Ⅱ 47'11	
	9041 Jul 12 16:30	0 ಲಾ		desc. node	9042 Jun 16 20:55	8° I I48'35	
morning max el	9041 Jul 17 15:18	4°9519'33	27°56'16	morning max el	9042 Jun 30 00:35	16° Ⅱ 48'49	27°37'06
morning max ci	9041 Aug 05 18:44	0°Ω	27 30 10	morning max cr	9042 Jul 10 22:42	0°95	27 37 00
morning set	9041 Aug 20 05:59	26° Ω 35'38			9042 Jul 29 13:53	$0 {\circ} \Omega$	
morning set	9041 Aug 21 21:30	0° m)		morning set	9042 Aug 03 23:52	10° Ω 21'02	
asc. node	9041 Aug 21 21:30 9041 Aug 22 13:00	1°Mp21'15		max. Earth dist.	9042 Aug 03 23:32 9042 Aug 08 21:16	20° Ω 19'58	1.32852 AU
max. Earth dist.	9041 Aug 25 20:33	8° Mp 27'01	1.31986 AU	asc. node	9042 Aug 09 09:56	20 δ C1938 21° Ω 26'31	1.32832 AU
max. Earth dist.	9041 Aug 23 20.33	8 HJ2/01	1.31980 AU	asc. node	9042 Aug 09 09.30	21 062031	
superior conj	9041 Aug 27 17:10	12° m 30'33	0°50'16	superior conj	9042 Aug 11 23:18	26° Ω 53'02	0°25'32
minimum elong	9041 Aug 27 17:10 9041 Aug 27 15:10	12° Mp 19'34	0°49'48	minimum elong	9042 Aug 11 23:18 9042 Aug 11 22:05	26° Ω 46'34	0°25'07
evening rise	9041 Aug 27 13:10 9041 Sep 03 12:14	27° My 22'32	J 77 TO	mmmum clong	9042 Aug 11 22:03 9042 Aug 13 10:00	0° m	0 2301
evening lise	9041 Sep 03 12:14 9041 Sep 04 17:48	0° ت		evening rise	9042 Aug 13 10:00 9042 Aug 18 23:46	12° Mp 01'34	
	•	0°M		evening 1150	9042 Aug 18 23.46 9042 Aug 28 01:59	0° ⊡	
desc. node	9041 Sep 21 19:06	5°ML07'35		avanina may al			22°52'13
	9041 Sep 25 22:30		2/02/11/2	evening max el desc. node	9042 Sep 10 07:35	18° £ 21'39	22 32 13
evening max el	9041 Sep 28 20:31	8°MJ10'12	24 3143		9042 Sep 12 19:38	20° Ω 35'10	
retrograde	9041 Oct 12 15:04	15°M05'16		retrograde	9042 Sep 23 13:24	24° £ 58'16	
evening set	9041 Oct 17 20:49	14°ML04'19	0.56520 411	evening set	9042 Sep 27 07:02	24° £ 27'43	0.55107 411
min. Earth dist.	9041 Oct 23 07:29	11°ML15'49	0.56529 AU	min. Earth dist.	9042 Oct 04 15:54	21° ≏ 07'47	0.55186 AU

inferior conj	9042 Oct 06 00:58	20° ჲ 20'20	-5°29'23	evening max el	9043 Aug 23 01:07	28° Mp 43'47	21°17'34
minimum elong	9042 Oct 05 20:15	20° £ 27'06		ovening man er	9043 Aug 24 09:49	0° ⊡	21 1/5.
morning rise	9042 Oct 14 11:27	16° £ 31'28		desc. node	9043 Aug 30 16:46	3° Ω 54'54	
direct	9042 Oct 17 13:42	16° ≏ 09'13		retrograde	9043 Sep 04 02:24	4° £ 42'18	
morning max el	9042 Oct 28 18:56	21° ≏ 25'01	20°52'01	evening set	9043 Sep 06 13:10	4° £ 28'26	
8	9042 Nov 04 20:35	0°M₊		inferior conj	9043 Sep 15 17:57	0° ჲ 31'39	-4°28'23
asc. node	9042 Nov 05 09:49	0°M49'35		minimum elong	9043 Sep 15 08:21	0° ≏ 45′08	4°25'56
morning set	9042 Nov 17 03:46	22°M32'03		min. Earth dist.	9043 Sep 16 00:23	0° ഫ 22'37	0.54659 AU
-	9042 Nov 20 17:45	0° ∡ ¹			9043 Sep 16 16:30	30°R.₩	
				morning rise	9043 Sep 24 04:11	26° m 39'27	
superior conj	9042 Nov 24 13:18	7° ∡ ¹54'54	1°35'07	direct	9043 Sep 27 22:15	26° Mp 09'03	
minimum elong	9042 Nov 24 14:59	8° ∡ 03'29	1°35'15		9043 Oct 08 00:28	0∘ ⊽	
max. Earth dist.	9042 Nov 29 10:41	17° ∡ ¹43'42	1.35763 AU	morning max el	9043 Oct 10 14:31	2° £ 11'01	22°29'46
evening rise	9042 Dec 03 10:18	25° ₹ 19'53		asc. node	9043 Oct 23 06:45	19° ₽ 12'06	
	9042 Dec 05 23:30	ರ°0			9043 Oct 29 01:00	0° M	
desc. node	9042 Dec 09 18:16	6° る 38'33		morning set	9043 Nov 01 14:28	7° ™ 20'32	
	9042 Dec 24 19:54	0° ≈					
evening max el	9043 Jan 07 21:50	16° ≈ 56′28	26°18'15	superior conj	9043 Nov 08 15:43	22°M24'34	1°40'33
retrograde	9043 Jan 20 17:18	24° ≈ 11'22		minimum elong	9043 Nov 08 16:07	22°M26'38	1°40'45
evening set	9043 Jan 26 23:51	21° ≈ 39'10		max. Earth dist.	9043 Nov 12 02:21	29° M 37'40	1.34059 AU
min. Earth dist.	9043 Jan 31 03:56	17° ≈ 18′25	0.66674 AU		9043 Nov 12 06:41	0° ∡ ¹	
asc. node	9043 Feb 01 09:03	15° ≈ 49'36		evening rise	9043 Nov 16 16:02	8° ₰ ¹48'24	
inferior conj	9043 Feb 01 20:13	15° ≈ 15′21	0°09'15	desc. node	9043 Nov 26 15:19	26° ∡ ¹55'12	
minimum elong	9043 Feb 01 19:58	15° ≈ 16′07	0°09'21		9043 Nov 28 11:49	8°0	
transit middle	9043 Feb 01 19:58	15° ≈ 16′07	0°09'21		9043 Dec 20 21:09	0° ≈	
transit begin	9043 Feb 01 17:37	15° ≈ 23'18		evening max el	9043 Dec 21 11:08	0° ≈ 33'55	27°06'07
transit end	9043 Feb 01 22:18	15° ≈ 08'57		retrograde	9044 Jan 03 19:49	7° ≈ 55'06	
morning rise	9043 Feb 07 16:52	9° ≈ 29'58		evening set	9044 Jan 10 12:47	5° ≈ 19'47	
direct	9043 Feb 10 18:38	8° ≈ 36'33		min. Earth dist.	9044 Jan 14 11:19	1° ≈ 32'48	0.65313 AU
morning max el	9043 Feb 17 09:23	12° ≈ 10'52	18°35'17		9044 Jan 15 20:27	30°Ŗる	
	9043 Mar 02 10:01	0° ∀		inferior conj	9044 Jan 16 15:13	29° る 06'52	-0°52'36
desc. node	9043 Mar 07 17:59	8° ∺ 21'14		minimum elong	9044 Jan 16 16:45	29° る 02'31	0°51'43
morning set	9043 Mar 10 06:08	12°) 1 8′21		asc. node	9044 Jan 19 06:08	26° る 18'28	
	9043 Mar 21 12:25	0 ° Υ		morning rise	9044 Jan 22 22:04	23° る 33'34	
				direct	9044 Jan 25 14:42	22° る 54'40	
superior conj	9043 Mar 26 09:27	7° Ƴ 37'54	-1°51'23	morning max el	9044 Feb 01 00:47	26° る 18'22	18°03'16
minimum elong	9043 Mar 26 00:25	7° Y 02'34	1°50'42		9044 Feb 04 05:59	0° ≈	
max. Earth dist.	9043 Mar 26 01:12	7° Y 05'37	1.45516 AU	morning set	9044 Feb 19 04:28	23° ≈ 13′12	
	9043 Apr 09 14:08	9° 8		desc. node	9044 Feb 22 14:52	28° ≈ 50′08	
evening rise	9043 Apr 11 00:10	2° 8 15'23			9044 Feb 23 08:02	0° ∀	
greatest brilliancy	9043 Apr 19 10:17	15° 8 38'47	-0.8m				
	9043 Apr 29 03:39	$\Pi^{\circ}0$		superior conj	9044 Mar 04 17:38	16°) (40′37	-1°15'11
asc. node	9043 Apr 30 07:41	1° Ⅱ 27'55		minimum elong	9044 Mar 04 09:15	16°) €07'31	1°14'06
evening max el	9043 May 02 15:41	4° Ⅱ 04'03	18°48'24	max. Earth dist.	9044 Mar 07 20:47	21°) 36′29	1.45416 AU
retrograde	9043 May 09 07:55	7° Ⅱ 45'20			9044 Mar 13 05:44	0 ° Υ	
evening set	9043 May 12 15:23	6° Ⅱ 42′20		evening rise	9044 Mar 20 21:25	11° Y 51'41	
inferior conj	9043 May 18 05:29	1° Ⅱ 01'50			9044 Apr 01 17:39	0°8	
minimum elong	9043 May 18 06:03	1° Ⅱ 00'04	3°19'49	greatest brilliancy	9044 Apr 03 05:00	2° 8 12'09	-0.7m
	9043 May 19 01:16	30° ₹8		evening max el	9044 Apr 14 22:38	17° 8 42'43	19°35'36
min. Earth dist.	9043 May 20 00:57		0.65725 AU	asc. node	9044 Apr 16 04:48	18° 8 54'44	
morning rise	9043 May 23 20:03	24° 8 43'02		retrograde	9044 Apr 22 05:22	21° 8 51'48	
direct	9043 May 30 07:13	21° 8 56'54		evening set	9044 Apr 25 21:10	20° 8 33'39	
desc. node	9043 Jun 03 17:55	23° 8 02'17		inferior conj	9044 May 01 06:33	14° 8 38'26	3°19'40
morning max el	9043 Jun 12 11:09	29° 8 45'41	26°46'18	minimum elong	9044 May 01 05:56	14° 8 40'30	3°19'26
	9043 Jun 12 16:46	0°Щ		min. Earth dist.	9044 May 02 11:04	13° 8 04'05	0.67083 AU
	9043 Jul 04 20:42	0 \circ \odot		morning rise	9044 May 06 14:20	8° 8 19'51	
morning set	9043 Jul 18 07:01	23°532'52		direct	9044 May 12 15:21	5° 8 38'52	
	9043 Jul 21 14:48	0°N		desc. node	9044 May 20 14:53	9° 8 07'39	
max. Earth dist.	9043 Jul 22 11:53	1° Ω 44'50	1.34209 AU	morning max el	9044 May 24 20:59	12° 8 58'43	25°32'31
					9044 Jun 07 14:34	0° Π	
superior conj	9043 Jul 26 23:28	10° £ 53′58			9044 Jun 26 14:34	0°©	
minimum elong	9043 Jul 26 23:39	10° £ 54'55	0°03'17	morning set	9044 Jun 29 23:24	6°9500'13	
behind sun begin	9043 Jul 26 18:00	10° £ 25'31		max. Earth dist.	9044 Jul 03 15:49	12° © 49'41	1.36028 AU
behind sun end	9043 Jul 27 05:18	11° Ω 24'21			004477 00 11 -	0.40 	000 //20
asc. node	9043 Jul 27 06:54	11° Ω 32'42		superior conj	9044 Jul 09 14:58	24°526'12	
evening rise	9043 Aug 03 09:42	26° Ω 32'16		minimum elong	9044 Jul 09 17:04	24°936'40	0°34'20
	9043 Aug 05 01:43	0° m			9044 Jul 12 09:07	$0 {\circ} \Omega$	

1-	0044 I1 12 02.51	1° Ω 35'30			0045 1-1 01 15.53	24° © 43'58	
asc. node	9044 Jul 13 03:51	1° Ω 48'38		evening rise	9045 Jul 01 15:52	24°9943'38 0°Ω	
evening rise	9044 Jul 17 15:56				9045 Jul 04 08:34		19°00'57
avanina may al	9044 Jul 27 21:27 9044 Aug 04 07:19	0° Т р 9° Тр 43'48	19°59'02	evening max el retrograde	9045 Jul 18 02:28 9045 Jul 26 20:25	21° Ω 29'09 25° Ω 49'34	19 00 37
evening max el	9044 Aug 14 16:26	-•	19 39 02	evening set	9045 Jul 28 18:23	$25^{\circ} \Omega 37'54$	
retrograde	2	14° Mp 51'45		desc. node	9045 Aug 03 11:03	$23^{\circ}\Omega 08'05$	
evening set desc. node	9044 Aug 16 13:53	14° Mp 42'16			•	23 δι 08 03 21° Ω 22'51	0040120
	9044 Aug 16 13:55	14° m/42'15 10° m/42'29	2042152	inferior conj	9045 Aug 06 02:08	$21^{\circ} \Omega 26'27$	0°47'51
inferior conj	9044 Aug 25 14:03			minimum elong	9045 Aug 06 00:04		
minimum elong	9044 Aug 25 06:39	10° m 53'39	2°41'19	min. Earth dist.	9045 Aug 09 00:49	19° Ω 20'51	0.56394 AU
min. Earth dist.	9044 Aug 27 10:46	9° Mp 35'06	0.55089 AU	morning rise	9045 Aug 14 02:37	16° Ω 31'28	
morning rise	9044 Sep 02 21:54	6° m 27'08		direct	9045 Aug 19 10:54	15° Ω 24'19	25055110
direct	9044 Sep 07 10:31	5° Mp 42'28	24017111	morning max el	9045 Sep 02 16:13	22° Ω 42'18	25°55'19
morning max el	9044 Sep 21 03:04	12° Tp 26'43	24°16'11		9045 Sep 09 04:23	0° m)	
	9044 Oct 04 12:54	0∘ ʊ		asc. node	9045 Sep 26 00:37	27° m/34'04	
asc. node	9044 Oct 09 03:41	8° Ω 09'56			9045 Sep 27 05:44	0∘ ⊽	
morning set	9044 Oct 16 02:14	22° Ω 09'36		morning set	9045 Sep 30 13:25	6° ≏ 54'53	
	9044 Oct 19 17:13	0°M					
				superior conj	9045 Oct 07 10:09	21° ≏ 56'45	1°32'28
superior conj	9044 Oct 22 23:24	7°M07'20	1°39'28	minimum elong	9045 Oct 07 08:30	21° ≏ 47'36	1°32'25
minimum elong	9044 Oct 22 22:38	7°M03'06	1°39'35	max. Earth dist.	9045 Oct 08 09:06	24° ≙ 03'33	1.31958 AU
max. Earth dist.	9044 Oct 25 02:27	11°M43'47	1.32781 AU		9045 Oct 11 02:14	0° M	
evening rise	9044 Oct 30 08:59	22°M46'15		evening rise	9045 Oct 14 10:07	7° M ∙05'24	
	9044 Nov 03 00:51	0°⊀			9045 Oct 26 12:31	0° ∡ 7	
desc. node	9044 Nov 12 12:25	16° ≯ 51'05		desc. node	9045 Oct 30 09:33	6° ∡ 17'44	
	9044 Nov 21 05:36	0°ಕ		evening max el	9045 Nov 15 07:42	26° ∡ '31'30	27°20'26
evening max el	9044 Dec 02 23:15		27°28'49		9045 Nov 19 11:21	0°₹	
retrograde	9044 Dec 16 15:36	21° る 09'12		retrograde	9045 Nov 29 03:51	3° る 44'56	
evening set	9044 Dec 23 15:44	18° る 38'06		evening set	9045 Dec 06 05:27	1° る 27'07	
min. Earth dist.	9044 Dec 27 09:56	15° る 22'37	0.63628 AU		9045 Dec 08 06:10	30°₽ ⋌ 7	
inferior conj	9044 Dec 30 01:01	12° る 42'32	-2°00'53	min. Earth dist.	9045 Dec 09 22:06	28° ∡ ³37'17	0.61683 AU
minimum elong	9044 Dec 30 04:51	12° る 32'47	1°59'05	inferior conj	9045 Dec 12 22:31	25° х 54′30	-3°12'37
asc. node	9045 Jan 05 03:12	7° る 42'39		minimum elong	9045 Dec 13 04:42	25° х 40′33	3°10'09
morning rise	9045 Jan 05 19:51	7° る 24'24		morning rise	9045 Dec 20 06:15	20° ≯ ′55′00	
direct	9045 Jan 08 05:31	6° පි 56'10		direct	9045 Dec 22 11:37	20° х 33′49	
morning max el	9045 Jan 14 18:13	10°る18'59	17°48'29	asc. node	9045 Dec 23 00:15	20° ₹ 35′02	
	9045 Jan 28 01:45	0° ≈		morning max el	9045 Dec 29 10:30	24° ₹ 04'44	17°51'43
morning set	9045 Jan 31 05:50	5° ≈ 26'40			9046 Jan 03 05:04	0°ರ	
desc. node	9045 Feb 08 11:47	19° ≈ 27'52		morning set	9046 Jan 14 03:44	18° る 38'10	
					9046 Jan 20 11:53	0° ≈	
superior conj	9045 Feb 12 19:45	26° ≈ 37'34	-0°31'28				
minimum elong	9045 Feb 12 16:20	26° ≈ 23'36	0°30'47	superior conj	9046 Jan 24 23:09	7° ≈ 47'21	0°10'26
	9045 Feb 14 21:31	0° ∀		minimum elong	9046 Jan 25 00:07	7° ≈ 51'27	0°10'31
max. Earth dist.	9045 Feb 18 15:40	6° ₩ 01'40	1.44590 AU	behind sun begin	9046 Jan 24 17:38	7° ≈ 23'39	
evening rise	9045 Feb 28 08:53	21° ∺ 12'08		behind sun end	9046 Jan 25 06:35	8° ≈ 19'12	
	9045 Mar 06 03:37	0 ° Υ		desc. node	9046 Jan 26 08:44	10° ≈ 10'45	
	9045 Mar 27 16:51	$8^{\circ 0}$		max. Earth dist.	9046 Feb 01 06:59	20° ≈ 03'09	1.43129 AU
evening max el	9045 Mar 29 00:11	1° 8 23'04	20°37'20		9046 Feb 07 12:07	0° ∀	
asc. node	9045 Apr 03 01:56	5° 8 21'09		evening rise	9046 Feb 08 01:48	0° ¥ 53'40	
retrograde	9045 Apr 06 03:57	6° 8 08'53			9046 Feb 27 17:10	0° Y	
evening set	9045 Apr 10 05:02	4° 8 35'19		evening max el	9046 Mar 11 20:16	15° Ƴ 04'20	21°50'13
	9045 Apr 14 09:02	30° ₹ Υ		asc. node	9046 Mar 20 23:04	20° Ƴ 32'01	
inferior conj	9045 Apr 15 12:20	28° Ƴ 27'07	3°07'07	retrograde	9046 Mar 21 01:46	20° Ƴ 32′05	
minimum elong	9045 Apr 15 10:48	28° Ƴ 32'24	3°06'46	evening set	9046 Mar 25 13:13	18° Ƴ 43'11	
min. Earth dist.	9045 Apr 16 02:50	27° Ƴ 37'17	0.67987 AU	inferior conj	9046 Mar 30 20:37	12° Ƴ 24'27	2°44'12
morning rise	9045 Apr 20 16:21	22° Ƴ 11'05		minimum elong	9046 Mar 30 18:32	12° Y 31'44	2°43'41
direct	9045 Apr 26 04:38	19° Ƴ 44'13		min. Earth dist.	9046 Mar 30 22:13	12° Y 18'52	0.68439 AU
desc. node	9045 May 07 11:50	26° Y 35'30		morning rise	9046 Apr 04 23:41	6° Y 12'26	
morning max el	9045 May 07 06:10	26° Y 21'04	24°05'51	direct	9046 Apr 09 22:07	4° Y 05'08	
	9045 May 10 14:51	8° 0		morning max el	9046 Apr 19 16:50	9° Ƴ 51'14	22°36'09
	9045 Jun 01 04:19	$\Pi^{\circ}0$		desc. node	9046 Apr 24 08:46	15° Y ′03'11	
morning set	9045 Jun 11 20:01	17° Ⅲ 30′11			9046 May 05 12:56	9° 8	
max. Earth dist.	9045 Jun 15 13:09	24° Ⅱ 01′22	1.38182 AU	morning set	9046 May 23 15:33	27° 8 49'31	
	9045 Jun 18 20:13	0ಂತಾ		-	9046 May 24 23:14	Π °0	
				max. Earth dist.	9046 May 28 10:33	5° Ⅱ 49'23	1.40447 AU
superior conj	9045 Jun 22 18:23	7° 5 21'19	-1°06'51				
minimum elong	9045 Jun 22 22:38	7° 5 341'34	1°06'25	superior conj	9046 Jun 05 05:27	19° Ⅲ 28'39	-1°37'12
asc. node	9045 Jun 30 00:52	21° © 31'37		minimum elong	9046 Jun 05 11:19	19° Ⅱ 55'11	1°36'45
				=			

	0046 I 10 22 20	000			0047.14 17 10 24	00Ж20144	2000150
	9046 Jun 10 22:29	0.200110		superior conj	9047 May 17 19:34	0° ∏ 38'44	
evening rise	9046 Jun 15 06:15	8°909'10		minimum elong	9047 May 18 00:57	1° Ⅱ 01'45	2°00'52
asc. node	9046 Jun 16 21:54	11°5516'03		evening rise	9047 May 29 07:01	20° ∏ 54'41	
	9046 Jun 27 23:36	0 $^{\circ}$ Ω			9047 Jun 03 08:52	0ა ௐ	
evening max el	9046 Jul 01 07:26	3° Ω 53'46	18°23'40	asc. node	9047 Jun 03 18:58	0° © 44'18	
retrograde	9046 Jul 08 19:21	7° Ω 39'03		evening max el	9047 Jun 14 18:29	16° © 49'32	18°06'27
evening set	9046 Jul 10 23:39	7° Ω 20'51		retrograde	9047 Jun 21 11:40	20°914'56	
inferior conj	9046 Jul 18 11:42	2° Ω 45'54	0°50'34	evening set	9047 Jun 23 23:42	19° © 46'39	
minimum elong	9046 Jul 18 13:25	2° Ω 42'24	0°49'43	inferior conj	9047 Jun 30 17:58	14° © 51'37	
desc. node	9046 Jul 21 08:10	0° Ω 26'43		minimum elong	9047 Jun 30 20:55	14° © 44'39	2°01'39
	9046 Jul 21 21:52	30° ₹ 5		min. Earth dist.	9047 Jul 03 23:58	11° © 48'43	0.60570 AU
min. Earth dist.	9046 Jul 21 20:37	0° Ω 02'25	0.58331 AU	morning rise	9047 Jul 07 15:24	8° © 57'53	
morning rise	9046 Jul 25 23:44	27° © 18'34		desc. node	9047 Jul 08 05:14	8° © 36'39	
direct	9046 Aug 01 01:37	25° © 41'38		direct	9047 Jul 14 05:12	6° ॐ 50′20	
	9046 Aug 11 13:37	$0 {\circ} \Omega$		morning max el	9047 Jul 28 12:39	14° © 48'00	27°50'32
morning max el	9046 Aug 15 11:01	3° Ω 24'16	27°10'30		9047 Aug 09 19:46	$0 {\circ} \Omega$	
	9046 Sep 03 19:01	0° m p			9047 Aug 27 06:07	O°Mp	
asc. node	9046 Sep 12 21:34	17° Mp 16'19		morning set	9047 Aug 30 03:05	5° m 50'44	
morning set	9046 Sep 14 22:18	21°M/30'14		asc. node	9047 Aug 30 18:30	7° m 11'09	
	9046 Sep 18 20:41	0∘ ত		max. Earth dist.	9047 Sep 05 03:52	18° m 47'45	1.31701 AU
superior conj	9046 Sep 21 21:57	6° £ 45'32	1°20'02	superior conj	9047 Sep 06 09:01	21°M)28'27	1°02'32
minimum elong	9046 Sep 21 19:47	6° ഫ 33'33	1°19'45	minimum elong	9047 Sep 06 06:48	21°Mp 16'16	1°02'05
max. Earth dist.	9046 Sep 21 18:48	6° £ 28'01	1.31593 AU		9047 Sep 10 05:34	0∘ ত	
evening rise	9046 Sep 28 16:46	21° ≏ 37'25		evening rise	9047 Sep 13 02:49	6° ≏ 16'30	
	9046 Oct 02 18:04	0° M.			9047 Sep 25 10:21	0° M	
desc. node	9046 Oct 17 06:41	25°M02'35		desc. node	9047 Oct 04 03:48	12°M49'23	
	9046 Oct 20 21:43	0° ∡ ¹		evening max el	9047 Oct 10 03:42	19° M 29'01	25°24'38
evening max el	9046 Oct 28 09:40	8° ∡ ¹25'45	26°38'13	retrograde	9047 Oct 24 01:26	26° ™ 29'59	
retrograde	9046 Nov 11 07:44	15° ∡ ³33'21		evening set	9047 Oct 29 23:48	25°M08'59	
evening set	9046 Nov 18 01:46	13° ∡ ³39'23		min. Earth dist.	9047 Nov 03 15:48	22°M30'20	0.57549 AU
min. Earth dist.	9046 Nov 21 23:29	11° х 03′42	0.59585 AU	inferior conj	9047 Nov 06 14:48	20°M29'08	-5°16'22
inferior conj	9046 Nov 25 04:11	8° ₮ 33'04	-4°21'38	minimum elong	9047 Nov 06 20:44	20° ™ 18'58	5°15'17
minimum elong	9046 Nov 25 11:43	8° ∡ 18'13	4°19'21	morning rise	9047 Nov 14 19:59	16°M13'54	
morning rise	9046 Dec 03 00:10	3° ∡ 755'16		direct	9047 Nov 17 04:39	15°M57'07	
direct	9046 Dec 05 04:45	3° ∡ ³37'53		morning max el	9047 Nov 26 01:25	20°M12'26	18°57'55
asc. node	9046 Dec 09 21:16	5° ∡ 102'06		asc. node	9047 Nov 26 18:17	20°M54'27	
morning max el	9046 Dec 12 22:10	7° ∡ ¹26′08	18°14'16		9047 Dec 03 12:12	0° ∡ 7	
	9046 Dec 27 08:28	0°る		morning set	9047 Dec 12 14:46	16° х 48'34	
morning set	9046 Dec 28 16:15	2° る 29'55		morning sec	9047 Dec 19 07:49	0°ਰ	
<i>5 5 1 1 1 1 1 1 1 1 1 1</i>							
superior conj	9047 Jan 07 02:18	20° る 04'33	0°45'14	superior conj	9047 Dec 21 00:22	3°₹15'06	1°11'17
minimum elong	9047 Jan 07 05:19	20° ප 18'14	0°45'02	minimum elong	9047 Dec 21 03:35	3° る 30'27	1°11'08
C	9047 Jan 12 16:53	0° ≈		max. Earth dist.	9047 Dec 27 23:15	16° පි 06'30	1.39042 AU
desc. node	9047 Jan 13 05:41	0°≈55'09		desc. node	9047 Dec 31 02:39	21° る 37'15	
max. Earth dist.	9047 Jan 14 17:05	3° ≈ 26'12	1.41200 AU	evening rise	9047 Dec 31 19:56	22° る 51'36	
evening rise	9047 Jan 19 11:59	11° ≈ 23'36		C	9048 Jan 05 02:12	0° ≈	
Ü	9047 Jan 31 11:18	0° ∀			9048 Jan 25 08:35	0° ∀	
evening max el	9047 Feb 22 12:08	28°) 47'58	23°09'33	evening max el	9048 Feb 05 01:50	12°) 34′53	24°29'13
	9047 Feb 23 17:52	$0^{\circ}\mathbf{\Upsilon}$		retrograde	9048 Feb 16 13:07	19° ¥ 17'30	
retrograde	9047 Mar 04 21:18	4° Y 56'44		evening set	9048 Feb 22 00:14	17° ¥ 00′50	
asc. node	9047 Mar 07 20:11	4° Υ 13'51		asc. node	9048 Feb 22 17:18	16° ¥ 22'12	
evening set	9047 Mar 09 20:08	2° Y 53'16		min. Earth dist.	9048 Feb 26 14:56	11°) 45'21	0.68072 AU
Ü	9047 Mar 12 13:43	30° ₹		inferior conj	9048 Feb 27 12:55	10°) 31'49	1°30'57
inferior conj	9047 Mar 15 05:26	26°) 27'16	2°11'58	minimum elong	9048 Feb 27 11:02	10°) (31°19	1°30'23
minimum elong	9047 Mar 15 03:13	26°) 34'58	2°11'21	morning rise	9048 Mar 03 21:57	4°) €31'44	1 30 23
min. Earth dist.	9047 Mar 14 19:01	27°) (03'15	0.68457 AU	direct	9048 Mar 07 17:38	3°) €08'12	
morning rise	9047 Mar 20 10:13	20° H 20'30		morning max el	9048 Mar 15 06:58	7° ¥ 22'54	19°59'09
direct	9047 Mar 24 18:52	18°) (35'11		desc. node	9048 Mar 28 02:32	23°) 56'18	
morning max el	9047 Apr 02 08:15	23° H 31'25	21°11'57		9048 Apr 01 05:13	0°Υ	
	9047 Apr 07 23:52	0° Υ		morning set	9048 Apr 11 07:02	15° Υ 18'01	
desc. node	9047 Apr 11 05:40	4° Υ 14'14			9048 Apr 20 16:49	0° 8	
3050. Houe	9047 Apr 28 21:09	0°8		max. Earth dist.	9048 Apr 21 23:02	2° 8 00'07	1.44202 AU
morning set	9047 May 03 08:10	6° 8 56'02		man. Durin dist.	701011pt 21 23.02	2 00007	1.11202 AU
max. Earth dist.	9047 May 10 13:14		1.42537 AU	superior conj	9048 Apr 27 09:14	10° 8 44'32	-2°12'12
max. Darm dist.	9047 May 17 10:30	0° Ⅱ	1.7233 / AU	minimum elong	9048 Apr 27 10:11	10° 8 48'23	
	707/11/1ay 1/ 10.50	νщ		mmmum ciong	9048 May 08 21:50	10 O 48 23	2 1221
					7070 Iviay 00 21.30	v <u>н</u>	

evening rise	9048 May 10 13:18	2° ∏ 48'52		superior conj	9049 Apr 07 00:33	19° Ƴ 54'47	-2°04'52
asc. node	9048 May 20 16:01	19° ∏ 49'42		minimum elong	9049 Apr 06 18:20	19° Ƴ 30'18	2°04'38
	9048 May 28 05:23	0°©		Č	9049 Apr 13 08:58	0°8	
evening max el	9048 May 28 07:57	0° © 06'24	18°08'24	evening rise	9049 Apr 21 21:00	13° 8 44'47	
retrograde	9048 Jun 03 17:14	3°527'01		•	9049 May 01 21:36	$\Pi^{\circ}0$	
evening set	9048 Jun 06 12:54	2° 5 346'11		asc. node	9049 May 07 13:04	8° Ⅱ 24'40	
	9048 Jun 10 07:24	30°Ŗ Ⅱ		evening max el	9049 May 11 20:42	13° Ⅱ 36′04	18°28'43
inferior conj	9048 Jun 12 17:09	27° Ⅱ 32'13	2°48'59	retrograde	9049 May 18 07:47	17° Ⅱ 05'58	
minimum elong	9048 Jun 12 19:39	27° ∏ 25'32	2°48'14	evening set	9049 May 21 10:57	16° Ⅱ 11′09	
min. Earth dist.	9048 Jun 15 12:03	24° ∏ 33′50	0.62792 AU	inferior conj	9049 May 27 05:10	10° Ⅲ 39'42	3°13'45
morning rise	9048 Jun 19 00:42	21° Ⅱ 22'51		minimum elong	9049 May 27 06:29	10° Ⅱ 35'47	3°13'22
desc. node	9048 Jun 24 02:15	19° Ⅱ 00'43		min. Earth dist.	9049 May 29 09:21	8° Ⅱ 05′10	0.64765 AU
direct	9048 Jun 25 18:46	18° Ⅱ 51'35		morning rise	9049 Jun 02 01:06	4° Ⅱ 22'50	
morning max el	9048 Jul 09 19:36	26° ∏ 54'19	27°52'17	direct	9049 Jun 08 16:21	1° Ⅱ 38′58	
	9048 Jul 12 17:21	0°€		desc. node	9049 Jun 10 23:16	1° ∏ 56'13	
	9048 Aug 02 11:40	0 $^{\circ}\Omega$		morning max el	9049 Jun 22 05:34	9° ∏ 35'53	27°18'48
morning set	9048 Aug 13 01:38	19° Ω 50'37			9049 Jul 08 04:48	0° ©	
asc. node	9048 Aug 16 15:27	27° Ω 13'49			9049 Jul 25 21:22	0 ° Ω	
P. d. P.	9048 Aug 17 22:46	0° m		morning set	9049 Jul 27 15:20	3° Ω 22'17	1 22251 177
max. Earth dist.	9048 Aug 18 08:35	0° m 52'30	1.32291 AU	max. Earth dist.	9049 Aug 01 05:23		1.33374 AU
	0040 4 20 17 22	60 m -0010 7	0040117	asc. node	9049 Aug 03 12:23	17° Ω 19'38	
superior conj	9048 Aug 20 17:32	6° Mp 00'07	0°40'17		0040 A 04 21-25	20° Ω 13'59	0012140
minimum elong	9048 Aug 20 15:47 9048 Aug 27 14:21	5° m 50'41 20° m 57'13	0°39'49	superior conj	9049 Aug 04 21:25 9049 Aug 04 20:43	$20^{\circ} \Omega 13^{\circ} 39$ $20^{\circ} \Omega 10^{\circ} 20$	0°13'48
evening rise	9048 Aug 31 22:46	0° ⊡		minimum elong behind sun begin	9049 Aug 04 20.43 9049 Aug 04 17:43	19°Ω54'22	0 13 29
desc. node	9048 Aug 31 22.40 9048 Sep 20 00:56	0 = 29° £ 16'02		behind sun end	9049 Aug 04 17.43 9049 Aug 04 23:44	20°Ω26'19	
evening max el	9048 Sep 20 00:30 9048 Sep 20 15:38	29° £ 52'12	23°40'56	bennia sun ena	9049 Aug 04 23:44 9049 Aug 09 10:57	0°M)	
evening max er	9048 Sep 20 18:53	0°M	23 49 30	evening rise	9049 Aug 12 01:28	5° Mp 33'23	
retrograde	9048 Oct 04 06:30	6°M40'53		evening rise	9049 Aug 25 03:57	ე° ი	
evening set	9048 Oct 08 21:14	5°M54'22		evening max el	9049 Sep 02 04:24	ა — 10° ჲ 03'30	22°10'30
min. Earth dist.	9048 Oct 15 02:05	2°M54'21	0.55868 AU	desc. node	9049 Sep 06 22:04	13° ⊆ 53'00	22 1030
inferior conj	9048 Oct 17 05:07	1°M37'29		retrograde	9049 Sep 14 23:33	16° Ω 25'48	
minimum elong	9048 Oct 17 04:59	1°M37'40		evening set	9049 Sep 18 02:44	16° ≏ 04'02	
· ·	9048 Oct 19 23:49	30° ₹ Ω		min. Earth dist.	9049 Sep 26 09:50	12° ≏ 26'38	0.54850 AU
morning rise	9048 Oct 25 14:46	27° £ 41'38		inferior conj	9049 Sep 27 02:51	12° ≏ 02'45	-5°10'18
direct	9048 Oct 28 09:27	27° ≏ 22'08		minimum elong	9049 Sep 26 19:17	12° ≙ 13'23	5°08'58
	9048 Nov 04 23:46	0°M		morning rise	9049 Oct 05 13:25	8° £ 15′16	
morning max el	9048 Nov 07 16:49	2°M13'43	20°04'02	direct	9049 Oct 08 22:24	7° ≏ 49'57	
asc. node	9048 Nov 12 15:16	7° M 56'58		morning max el	9049 Oct 20 18:57	13° ≏ 24'46	21°31'49
	9048 Nov 25 03:18	0° ∡		asc. node	9049 Oct 30 12:13	25° ≏ 53'48	
morning set	9048 Nov 25 20:00	1° ≯ 24'48			9049 Nov 01 22:29	0° M	
				morning set	9049 Nov 10 05:18	16°M10'13	
superior conj	9048 Dec 03 12:33	17° ₹ 05'26	1°28'41		9049 Nov 16 18:48	0° ∡	
minimum elong	9048 Dec 03 14:55	17° ∡ 17'19	1°28'44				
max. Earth dist.	9048 Dec 09 05:47	28° ∡ 14'27	1.36901 AU	superior conj	9049 Nov 17 10:42	1° ≯ 23′05	1°38'16
	9048 Dec 10 04:14	0°ಕ		minimum elong	9049 Nov 17 11:50	1° ∡ ′28'58	1°38'27
evening rise	9048 Dec 13 00:32	5° ට 13'56		max. Earth dist.	9049 Nov 21 17:18	10° ₹ 08'06	1.34990 AU
desc. node	9048 Dec 16 23:39	12°る13'28		evening rise	9049 Nov 25 22:09	18° ₹ 20'19	
·	9048 Dec 28 00:24	0°≈	25042110	1 1	9049 Dec 02 07:54	0°る	
evening max el	9049 Jan 17 15:08	26° ≈ 23'48 0°) €	25°42'10	desc. node	9049 Dec 03 20:42	2°る38'27 0°≈	
retrograde	9049 Jan 21 18:07 9049 Jan 30 00:15	3° ¥ 29'27		evening max el	9049 Dec 22 05:21 9049 Dec 31 04:30	0 ≈ 10°≈07'22	260/11/1/
evening set	9049 Feb 04 23:55	1° ∺ 01'59		retrograde	9050 Jan 13 05:57	10 ≈07 22 17°≈25'23	20 41 14
evening set	9049 Feb 06 03:07	30°R≈		evening set	9050 Jan 19 17:21	17 ≈ 23 23 14° ≈ 51'04	
asc. node	9049 Feb 08 14:23	27°≈14'54		min. Earth dist.	9050 Jan 23 19:00	10°≈45'02	0.66143 AU
min. Earth dist.	9049 Feb 09 07:42	26°≈21'16	0.67298 AU	inferior conj	9050 Jan 25 16:14	8°≈31'26	
inferior conj	9049 Feb 10 17:13	24°≈34'52	0°41'31	minimum elong	9050 Jan 25 16:41	8°≈30'08	0°15'39
minimum elong	9049 Feb 10 16:12	24°≈38'07	0°41'16	transit middle	9050 Jan 25 16:41	8° ≈ 30'08	0°15'39
morning rise	9049 Feb 16 08:57	18° ≈ 43'25		transit begin	9050 Jan 25 16:02	8° ≈ 32'03	
direct	9049 Feb 19 16:55	17° ≈ 39'45		transit end	9050 Jan 25 17:20	8°≈28'12	
morning max el	9049 Feb 26 13:30	21° ≈ 24'54	19°01'13	asc. node	9050 Jan 26 11:29	7° ≈ 34'57	
-	9049 Mar 05 13:11	0°) €		morning rise	9050 Jan 31 16:59	2° ≈ 50'56	
greatest brilliancy	9049 Mar 12 07:24	9°) 56'42	-0.8m	direct	9050 Feb 03 14:44	2° ≈ 04'02	
desc. node	9049 Mar 14 23:25	14°) €01'23		morning max el	9050 Feb 10 02:26	5° ≈ 32'09	18°19'39
morning set	9049 Mar 21 11:14	24°) €03'39			9050 Feb 27 02:39	0° ∀	
	9049 Mar 25 06:58	$0^{\circ}\Upsilon$		morning set	9050 Mar 01 16:25	4°) €07'12	
max. Earth dist.	9049 Apr 04 15:07	16° Ƴ 08'50	1.45252 AU	desc. node	9050 Mar 01 20:20	4°) €22'53	

superior conj	9050 Mar 17 05:48	28°) 44'59	-1°37'38	desc. node	9051 Feb 16 17:15	24°≈55'41	
minimum elong	9050 Mar 16 20:12	28°) €07'21			9051 Feb 19 19:29	0°) €	
_	9050 Mar 18 00:58	0 ° $\mathbf{\Upsilon}$					
max. Earth dist.	9050 Mar 18 10:41	0° Y 38'02	1.45570 AU	superior conj	9051 Feb 24 20:00	8°) €06'24	-0°56'56
evening rise	9050 Apr 02 05:28	23° Y 45'38		minimum elong	9051 Feb 24 13:33	7°) 40′35	
	9050 Apr 06 04:58	0°8		max. Earth dist.	9051 Mar 01 06:10		1.45142 AU
greatest brilliancy	9050 Apr 12 21:02	10° 8 22'33	-0.8m		9051 Mar 10 19:21	0° Υ	
asc. node	9050 Apr 24 10:09	26° 8 19'52	10006120	evening rise	9051 Mar 12 20:46	3°Υ10'10	0.6
evening max el	9050 Apr 25 06:16	27° 8 12'37 0° I I	19°06'28	greatest brilliancy	9051 Mar 27 14:49	25° Y 26'12 0° と	-0.6m
retrograde	9050 Apr 28 16:19 9050 May 02 03:42	0° П 1° П 04'28		evening max el	9051 Mar 30 19:04 9051 Apr 08 10:54	10° 8 51'39	20°00'13
retrograde	9050 May 05 11:34	30°R8		asc. node	9051 Apr 08 10:54 9051 Apr 11 07:16	13° 8 22'43	20 00 13
evening set	9050 May 05 14:40	29° 8 54'56		retrograde	9051 Apr 16 02:03	15° 8 15'59	
inferior conj	9050 May 11 02:22		3°21'32	evening set	9051 Apr 19 21:35	13° 8 51'21	
minimum elong	9050 May 11 02:25	24° 8 07'34	3°21'19	inferior conj	9051 Apr 25 05:46	7° 8 50'09	3°15'42
min. Earth dist.	9050 May 12 15:17	22° 8 09'27	0.66358 AU	minimum elong	9051 Apr 25 04:43	7° 8 53'42	3°15'27
morning rise	9050 May 16 13:42	17° 8 48'35		min. Earth dist.	9051 Apr 26 04:10	6° 8 34'33	0.67517 AU
direct	9050 May 22 20:50	15° 8 03'45		morning rise	9051 Apr 30 11:35	1° 8 32'11	
desc. node	9050 May 28 20:16	17° 8 01'28			9051 May 02 13:03	30° ₹Ƴ	
morning max el	9050 Jun 04 16:12	_	26°17'11	direct	9051 May 06 07:16	28° Y 56′23	
	9050 Jun 11 02:31	0°Щ			9051 May 10 09:57	0° 8	
	9050 Jul 01 11:54	0.2		desc. node	9051 May 15 17:15	3° 8 45'03	
morning set	9050 Jul 10 16:47	16°5516'55	1.24026.444	morning max el	9051 May 18 01:52	6° 8 00'11	24°56'39
max. Earth dist.	9050 Jul 14 15:46	23° © 50′22 0° Ω	1.34936 AU	marning gat	9051 Jun 05 15:23	0°Ⅲ 28°Ⅲ21'52	
	9050 Jul 17 18:18	0.95		morning set	9051 Jun 23 01:28 9051 Jun 23 23:28	28° ш 21′32	
superior conj	9050 Jul 19 18:17	4° Ω 03'47	-0°16'10	max. Earth dist.	9051 Jun 26 16:09	0 ع 4°954'01	1.36914 AU
minimum elong	9050 Jul 19 19:14	4°Ω08'35		max. Lartii dist.	7031 Jun 20 10.07	7 33701	1.50714 AC
asc. node	9050 Jul 21 09:21	7° Ω 24'54	0 1012	superior conj	9051 Jul 03 05:06	17° © 20'59	-0°48'15
evening rise	9050 Jul 27 10:10	19° Ω 59'14		minimum elong	9051 Jul 03 08:06	17°535'44	
Č	9050 Aug 01 09:33	0° m)		asc. node	9051 Jul 08 06:19	27°525'08	
evening max el	9050 Aug 15 02:48	20°m/39'02	20°41'42		9051 Jul 09 13:00	$0^{\circ}\Omega$	
desc. node	9050 Aug 24 19:12	26°Mp09'59		evening rise	9051 Jul 11 14:04	4° Ω 07'22	
retrograde	9050 Aug 26 11:48	26° Mp 17'14			9051 Jul 26 18:56	0° т р	
evening set	9050 Aug 28 14:40	26°Mp06'18		evening max el	9051 Jul 28 14:41	1° m 58'01	19°31'41
inferior conj	9050 Sep 06 19:20	22° m 09'31		retrograde	9051 Aug 07 06:43	6° Mp 44′52	
minimum elong	9050 Sep 06 09:54	22° m/23'02	3°44'45	evening set	9051 Aug 09 02:55	6° My 35'12	
min. Earth dist.	9050 Sep 07 18:43	21° m 35'59	0.54725 AU	desc. node	9051 Aug 11 16:21	5° Mp 52'11	1054116
morning rise	9050 Sep 15 05:01 9050 Sep 19 06:30	18° Mp 09'57		inferior conj	9051 Aug 17 21:04 9051 Aug 17 15:54	2° Mp 30'07	-1°54'16 1°52'26
direct morning max el	9050 Sep 19 00:30 9050 Oct 02 10:48	17° Mp 34'37 23° Mp 55'00	23014'56	minimum elong min. Earth dist.	9051 Aug 17 15.54 9051 Aug 20 06:49	2° m/38'21 0° m/58'17	0.55548 AU
morning max ci	9050 Oct 07 22:47	ე∘ ი	25 14 50	iiiii. Lartii dist.	9051 Aug 21 21:32	30°RΩ	0.55546 AU
asc. node	9050 Oct 17 09:12	0 — 14° Ω 32'23		morning rise	9051 Aug 26 02:25	27° Ω 59'45	
use. Houe	9050 Oct 25 05:26	0°M		direct	9051 Aug 30 23:12	27° Ω 06'34	
morning set	9050 Oct 25 16:39	0°M59'19			9051 Sep 08 18:49	0° m y	
_				morning max el	9051 Sep 13 22:55	4° ™ 07'11	25°00'18
superior conj	9050 Nov 01 15:40	15°M58'55	1°40'51		9051 Oct 02 07:05	0∘ ত	
minimum elong	9050 Nov 01 15:32	15°M58'13	1°41'02	asc. node	9051 Oct 04 06:10	3° £ 42′02	
max. Earth dist.	9050 Nov 04 12:35	22°M05'43	1.33457 AU	morning set	9051 Oct 10 04:22	15° ≏ 46'57	
	9050 Nov 08 08:41	0° ∡ 7			9051 Oct 16 16:41	0°M₊	
evening rise	9050 Nov 09 09:02	2°×701'39			0051 0 + 17 00 55	00 M 45H 2	1027111
desc. node	9050 Nov 20 17:47	22°፟፟፟፟፟፟፟፟፟፟፟፟		superior conj	9051 Oct 17 00:55	0°M45'12	1°37'11 1°37'14
avanina may al	9050 Nov 25 05:39 9050 Dec 13 17:17	23° る 35'50	27°19'09	minimum elong max. Earth dist.	9051 Oct 16 23:44 9051 Oct 18 15:32	0° ጤ 38'41 4° ጤ 16'24	1.32368 AU
evening max el	9050 Dec 13 17.17 9050 Dec 22 18:18	23 3 33 30 0° ≈	27 19 09	evening rise	9051 Oct 18 15.32 9051 Oct 24 05:47	16°M09'08	1.32308 AU
retrograde	9050 Dec 27 05:40	0 ∞ 0°≈57'14		evening rise	9051 Oct 31 08:25	10 11€09 08 0° ⊼ 1	
retrograde	9050 Dec 31 10:25	30°R₹		desc. node	9051 Nov 07 14:52	12° ∡ 30′55	
evening set	9051 Jan 03 02:22	28° る 22'19			9051 Nov 20 00:24	0°る	
min. Earth dist.	9051 Jan 06 22:43	24° る 49'30	0.64632 AU	evening max el	9051 Nov 26 04:00	6° ප 38'12	27°29'21
inferior conj	9051 Jan 09 07:37	22° ප 16'05		retrograde	9051 Dec 09 22:43	13° පි 56'06	
minimum elong	9051 Jan 09 10:06	22° る 09'24	1°19'39	evening set	9051 Dec 17 00:12	11° る 29'17	
asc. node	9051 Jan 13 08:35	18° පි 20'31		min. Earth dist.	9051 Dec 20 17:07	8° පි 25'43	0.62817 AU
morning rise	9051 Jan 15 19:26	16° る 49'12		inferior conj	9051 Dec 23 12:36	5° る 42'35	
direct	9051 Jan 18 08:48	16° ප 15'21		minimum elong	9051 Dec 23 17:29	5° ප 30'46	2°29'05
morning max el	9051 Jan 24 19:07	19° る 37'24	17°54'55	morning rise	9051 Dec 30 12:55	0° る 32'08	
	9051 Feb 01 14:48	0°≈		asc. node	9051 Dec 31 05:41	0°る19'32	
morning set	9051 Feb 11 02:51	15° ≈ 36'55		direct	9052 Jan 01 20:15	0° 궁 07'28	

morning max el	9052 Jan 08 12:31	3° る 32'58	1 <i>7</i> °47'38	direct	9052 Dec 14 21:24	13° ∡ 31'35	
morning set	9052 Jan 24 13:46	28°る17'20	17 47 50	asc. node	9052 Dec 17 02:45	13° 🖈 51'33	
morning sec	9052 Jan 25 13:10	0°≈		morning max el	9052 Dec 22 03:14		17°58'49
desc. node	9052 Feb 03 14:10	15° ≈ 35'57			9052 Dec 31 05:28	0°ප	-, -, -,
				morning set	9053 Jan 06 18:33	11° る 47'46	
superior conj	9052 Feb 05 08:40	18° ≈ 34'03	-0°13'05				
minimum elong	9052 Feb 05 07:21	18° ≈ 28'34	0°12'41	superior conj	9053 Jan 16 22:35	0° ≈ 13'13	0°26'13
behind sun begin	9052 Feb 05 01:41	18° ≈ 04'54		minimum elong	9053 Jan 17 00:41	0° ≈ 22′29	0°26'08
behind sun end	9052 Feb 05 13:02	18° ≈ 52'13			9053 Jan 16 19:34	0° ≈	
max. Earth dist.	9052 Feb 11 23:15	29° ≈ 22'43	1.44028 AU	desc. node	9053 Jan 20 11:06	6° ≈ 19'30	
	9052 Feb 12 08:32	0° ∀		max. Earth dist.	9053 Jan 24 12:21	13° ≈ 08'45	1.42352 AU
evening rise	9052 Feb 20 08:41	12°) 35′02		evening rise	9053 Jan 30 07:55	22° ≈ 34'51	
	9052 Mar 02 21:49	$0^{\circ}\mathbf{\Upsilon}$			9053 Feb 04 01:46	0° ∀	
evening max el	9052 Mar 21 10:04	24° Y 32′28	21°07'15		9053 Feb 25 01:38	0° Υ	
asc. node	9052 Mar 28 04:24	29° Y 19'04		evening max el	9053 Mar 04 04:16	8° Y 14'45	22°23'36
retrograde	9052 Mar 30 00:33	29° Y 36′07		retrograde	9053 Mar 13 21:25	13° Y 59'56	
evening set	9052 Apr 03 05:48	27° Y 56'14		asc. node	9053 Mar 15 01:33	13° Y 53′04	
inferior conj	9052 Apr 08 12:54	21° Υ 43'17	2°58'36	evening set	9053 Mar 18 13:36	12° Υ 04'52	2021120
minimum elong	9052 Apr 08 11:05	21° Υ 49'35	2°58'11	inferior conj	9053 Mar 23 21:37	5° Υ 42'52 5° Υ 50'31	
min. Earth dist.	9052 Apr 08 21:52	21° Υ 12'10 15° Υ 28'33	0.68230 AU	minimum elong	9053 Mar 23 19:25	5° Υ 50'31	2°31'03 0.68501 AU
morning rise	9052 Apr 13 16:09	13° Υ 28'33		min. Earth dist.	9053 Mar 23 18:06	30°R) €	0.08501 AU
direct morning max el	9052 Apr 18 22:38 9052 Apr 29 11:12	13 1 09 10 19° Y 25'29	23°27'28	morning rise	9053 Mar 28 13:00 9053 Mar 29 01:05	30 KX 29° X 32'57	
desc. node	9052 Apr 29 11:12 9052 May 01 14:12	21° Υ 40'41	23 21 26	direct	9053 Mai 29 01:03 9053 Apr 02 17:44	29 X 32 37 27° X 34'36	
desc. node	9052 May 08 09:57	0° 8		direct	9053 Apr 02 17:44 9053 Apr 08 14:37	27 χ 3430	
	9052 May 28 19:11	0°II		morning max el	9053 Apr 11 23:17	2°Υ58'29	21°59'14
morning set	9052 Jun 03 12:02	9° ∏ 23'23		desc. node	9053 Apr 18 11:06	10° Υ 28'02	21 37 14
max. Earth dist.	9052 Jun 07 12:08		1.39151 AU	dese. Hode	9053 May 02 10:22	0°8	
man. Darun dist.	>002 Uaii 0, 12.00	10 210	1.57101110	morning set	9053 May 14 19:51	19° 8 10'21	
superior conj	9052 Jun 15 02:08	29° Ⅱ 57'10	-1°20'11	max. Earth dist.	9053 May 20 11:22		1.41377 AU
minimum elong	9052 Jun 15 07:12				9053 May 21 09:57	0°II	
	9052 Jun 15 02:44	0ಂತಾ					
evening rise	9052 Jun 24 10:22	17° © 50'42		superior conj	9053 May 28 04:53	11° Ⅱ 41'48	-1°48'25
asc. node	9052 Jun 24 03:19	17°516'34		minimum elong	9053 May 28 10:55	12° Ⅱ 08′26	1°48'04
	9052 Jun 30 21:15	$0^{\circ}\Omega$		-	9053 Jun 07 06:27	0 \circ \odot	
evening max el	9052 Jul 10 14:34	14° Ω 01′27	18°42'33	evening rise	9053 Jun 07 19:29	1°500'21	
retrograde	9052 Jul 18 18:13	18° Ω 04'36		asc. node	9053 Jun 11 00:21	6° 9 54'51	
evening set	9052 Jul 20 18:36	17° Ω 50'38		evening max el	9053 Jun 23 22:40	26°541'11	18°13'57
inferior conj	9052 Jul 28 18:02	13° Ω 27'42	-0°03'28		9053 Jun 29 02:58	$0^{\circ}\Omega$	
minimum elong	9052 Jul 28 17:53	13° Ω 27'58	0°03'37	retrograde	9053 Jul 01 01:00	0° Ω 15'48	
transit middle	9052 Jul 28 17:53	13° Ω 27'58	0°03'37		9053 Jul 02 23:48	30° ₹ 5	
transit begin	9052 Jul 28 14:19	13° Ω 34'36		evening set	9053 Jul 03 08:43	29° © 53'32	
transit end	9052 Jul 28 21:28	13° Ω 21′20		inferior conj	9053 Jul 10 12:46	25° © 09'45	1°24'33
desc. node	9052 Jul 28 13:28	13° Ω 36'10	0.551.00 4.44	minimum elong	9053 Jul 10 15:17	25°504'16	1°23'28
min. Earth dist.	9052 Jul 31 23:11	11° Ω 05'33	0.57168 AU	min. Earth dist.	9053 Jul 13 21:43	22°©15'21	0.59272 AU
morning rise	9052 Aug 05 13:42	8° Ω 20'19		desc. node	9053 Jul 15 10:32	21°503'08	
direct morning max el	9052 Aug 11 06:17	7° Ω 00'42 14° Ω 30'32	26920156	morning rise	9053 Jul 17 18:44	19° © 30'13 17° © 39'59	
morning max er	9052 Aug 25 13:54 9052 Sep 06 23:26	0°M)	20 30 30	direct morning max el	9053 Jul 24 02:43 9053 Aug 07 11:29	25°\$29'10	27°32'10
asc. node	9052 Sep 00 23:20 9052 Sep 20 03:05	23° Mp 14'21		morning max er	9053 Aug 07 11:29 9053 Aug 11 15:57	23 3 29 10	27 32 10
asc. Houc	9052 Sep 23 09:26	0° ت			9053 Aug 31 08:52	0° m)	
morning set	9052 Sep 23 14:44	0° ≏ 28'08		asc. node	9053 Sep 06 24:00	13° m 02'51	
morning set	7032 бер 23 14.44	0 =2000		morning set	9053 Sep 07 22:07	14° m 58'15	
superior conj	9052 Sep 30 12:19	15° ≏ 34'53	1°27'50	max. Earth dist.	9053 Sep 14 09:52	29° m 03'42	1.31588 AU
minimum elong	9052 Sep 30 10:24			man. Darun dige.	9053 Sep 14 20:01	0∘ ʊ	1.51500110
max. Earth dist.	9052 Sep 30 23:47	16° £ 38'31	1.31745 AU		, p	• —	
evening rise	9052 Oct 07 09:33	0°M34'34		superior conj	9053 Sep 15 00:03	0° ჲ 22'20	1°13'13
5 .	9052 Oct 07 03:00	0° M .		minimum elong	9053 Sep 14 21:48	0° £ 09'54	1°12'51
	9052 Oct 23 09:37	0° ∡ ¹		evening rise	9053 Sep 21 17:57	15° ≙ 11'08	
desc. node	9052 Oct 24 11:59	1° ≯ 41'08		-	9053 Sep 29 02:04	0°M	
evening max el	9052 Nov 07 10:11	19° ∡ '01'10	27°06'47	desc. node	9053 Oct 11 09:05	20°M03'52	
retrograde	9052 Nov 21 07:40	26° ∡ 11'59			9053 Oct 19 18:42	0°⊀	
evening set	9052 Nov 28 07:04	24° ∡ 03′25		evening max el	9053 Oct 20 09:04	0° ∡ ³34'35	26°10'20
min. Earth dist.	9052 Dec 02 00:53	21° × ⁷ 21'01	0.60790 AU	retrograde	9053 Nov 03 07:01	7° ∡ ³38'34	
inferior conj	9052 Dec 05 03:50	18° ∡ ′41'35	-3°42'50	evening set	9053 Nov 09 18:26	5° ₹ 57'58	
minimum elong	9052 Dec 05 10:48	18° ∡ ¹26'41	3°40'19	min. Earth dist.	9053 Nov 13 22:04	3° ≯ 23'22	0.58703 AU
morning rise	9052 Dec 12 16:57	13° х 50′43		inferior conj	9053 Nov 17 01:45	1° ≯ 03'30	-4°47'30

minimum elong	9053 Nov 17 09:06	0° ∡ 749'52	4°45'38	inferior conj	9054 Oct 29 03:36	12° M .38'57	-5°31'01
_	9053 Nov 18 12:29	30°RM₊		minimum elong	9054 Oct 29 07:29	12°M32'40	5°30'31
morning rise	9053 Nov 25 02:08	26°M35'04		morning rise	9054 Nov 06 11:21	8° M 33'07	
direct	9053 Nov 27 07:57	26°ML18'11		direct	9054 Nov 08 23:43	8°ML15'32	
asc. node	9053 Dec 03 23:45	28°ML57'10		morning max el	9054 Nov 18 10:17	12° M 44'37	19°23'18
	9053 Dec 05 04:44	0° ∡ ¹		asc. node	9054 Nov 20 20:44	15°M21'02	
morning max el	9053 Dec 05 11:42	0° ∡ 16'35	18°30'07		9054 Nov 30 06:05	0° ∡ ¹	
morning set	9053 Dec 21 11:48	25° ₹ '52'28		morning set	9054 Dec 05 13:31	10° ∡ 19'27	
	9053 Dec 23 15:09	0°ರ					
				superior conj	9054 Dec 13 15:03	26° ∡ ¹23'48	1°19'40
superior conj	9053 Dec 30 10:24	12° る 54'39	0°57'22	minimum elong	9054 Dec 13 18:00	26° ∡ ³38′08	1°19'37
minimum elong	9053 Dec 30 13:41	13° る 09'51	0°57'10		9054 Dec 15 11:44	0°రె	
max. Earth dist.	9054 Jan 06 20:56	26° ප 15'03	1.40302 AU	max. Earth dist.	9054 Dec 20 02:44	8° ප 39'50	1.38114 AU
desc. node	9054 Jan 07 08:03	27°る03'05		evening rise	9054 Dec 23 20:16	15° る 20'31	
	9054 Jan 09 01:27	0° ≈		desc. node	9054 Dec 25 05:03	17° ප් 43'01	
evening rise	9054 Jan 11 03:15	3° ≈ 29'02			9055 Jan 01 14:56	0° ≈	
C	9054 Jan 28 07:53	0° ∀			9055 Jan 23 00:34	0° ∀	
evening max el	9054 Feb 14 19:00	21°) 59'30	23°43'48	evening max el	9055 Jan 28 08:12	5°) 46′58	25°01'28
retrograde	9054 Feb 25 15:20	28°) (23'11		retrograde	9055 Feb 09 05:21	12°) (41'08	
asc. node	9054 Mar 01 22:41	26°) 54'12		evening set	9055 Feb 14 21:55	10° ₩ 19'10	
evening set	9054 Mar 02 19:28	26°) 13'43		asc. node	9055 Feb 16 19:47	8°) €26'44	
min. Earth dist.	9054 Mar 07 14:40	20°)(38'38	0.68347 AU	min. Earth dist.	9055 Feb 19 09:26	5°) 18'42	0.67786 AU
inferior conj	9054 Mar 08 06:04	19°) 46'04	1°55'37	inferior conj	9055 Feb 20 12:25	3° ¥ 50'13	1°11'00
minimum elong	9054 Mar 08 03:55	19°) 53'24	1°54'59	minimum elong	9055 Feb 20 10:49	3° ¥ 55′26	1°10'31
morning rise	9054 Mar 13 12:21	13°) (3324	1 3437	minimum ciong	9055 Feb 23 15:31	30°R≈	1 1031
direct	9054 Mar 17 15:25	13 X 4212 12° X 06'17		morning rise	9055 Feb 26 00:02	27°≈53'49	
	9054 Mar 25 17:36	16° \(\) 42'59	20°39'22	direct	9055 Mar 01 14:29	27 ≈3349 26°≈39'15	
morning max el		29° H 52'59	20 39 22	direct		20 ≈3913 0° \	
desc. node	9054 Apr 05 08:00	29° π 3239 0° Υ			9055 Mar 08 03:10	0° ∺ 39'54	19°32'39
. ,	9054 Apr 05 10:00			morning max el	9055 Mar 08 19:52		
morning set	9054 Apr 24 02:50	27° Y 51'15		greatest brilliancy	9055 Mar 21 12:50	17°) 17'05	-0.7m
T d F d	9054 Apr 25 11:53	0° 8	1 42210 411	desc. node	9055 Mar 23 04:53	19° ¥ 45'40 0° Ƴ	
max. Earth dist.	9054 May 02 17:37	11° 8 29'55	1.43310 AU	. ,	9055 Mar 29 23:16	0°Υ 6°Υ14'42	
	005434 00 00 47	222	2007141	morning set	9055 Apr 03 00:54		1 44702 444
superior conj	9054 May 09 08:47	22° 8 24'12		max. Earth dist.	9055 Apr 15 06:24	25° Y 18'45	1.44723 AU
minimum elong	9054 May 09 12:49	22° 8 41'07	2°07'42		9055 Apr 18 05:13	9° 8	
	9054 May 13 20:20	0°II					
evening rise	9054 May 21 12:58	13° Ⅱ 25'11		superior conj	9055 Apr 19 12:08	2° 8 03'40	
asc. node	9054 May 28 21:23	26° Ⅱ 14'01		minimum elong	9055 Apr 19 10:05	1° 8 55'26	2°11'41
	9054 May 31 04:18	0°€		evening rise	9055 May 03 10:07	24° 8 55'30	
evening max el	9054 Jun 07 11:07	9° 5 46'34	18°04'58	_	9055 May 06 10:38	0°II	
retrograde	9054 Jun 13 23:42	13° © 08'24		asc. node	9055 May 15 18:28	15° Ⅱ 07'45	
evening set	9054 Jun 16 15:00	12° © 34'58		evening max el	9055 May 22 00:35	23° Ⅱ 09'34	18°14'51
inferior conj	9054 Jun 23 02:45	7° © 31'23	2°25'19	retrograde	9055 May 28 09:43	26° Ⅱ 32'54	
minimum elong	9054 Jun 23 05:39	7° 9 24'07	2°24'19	evening set	9055 May 31 08:26	25° Ⅱ 46'24	
min. Earth dist.	9054 Jun 26 04:34	4° © 27'54	0.61528 AU	inferior conj	9055 Jun 06 07:57	20° Ⅱ 24'48	3°01'50
morning rise	9054 Jun 29 18:05	1° © 29'42		minimum elong	9055 Jun 06 09:59	20° Ⅱ 19'04	3°01'14
desc. node	9054 Jul 02 07:36	0°903'34		min. Earth dist.	9055 Jun 08 20:49	17° Ⅱ 34'23	0.63662 AU
	9054 Jul 02 11:00	30° Ŗ Ⅱ		morning rise	9055 Jun 12 10:10	14° Ⅱ 11'05	
direct	9054 Jul 06 10:24	29° Ⅱ 11'18		direct	9055 Jun 19 03:40	11° Ⅱ 32'59	
	9054 Jul 10 14:30	0ංම		desc. node	9055 Jun 19 04:38	11° Ⅱ 32'59	
morning max el	9054 Jul 20 15:48	7° © 11'59	27°56'02	morning max el	9055 Jul 03 00:38	19° Ⅱ 35'36	27°42'04
	9054 Aug 06 23:46	$0^{\circ}\Omega$			9055 Jul 11 21:16	0 \circ \odot	
morning set	9054 Aug 23 00:33	29° Ω 10'57			9055 Jul 30 23:40	$0^{\circ}\Omega$	
	9054 Aug 23 10:04	0° m)		morning set	9055 Aug 06 19:44	13° Ω 00'09	
asc. node	9054 Aug 24 20:54	3° m 01'29		asc. node	9055 Aug 11 17:51	23° Ω 06′01	
max. Earth dist.	9054 Aug 28 17:49	11° m) 19'36	1.31898 AU	max. Earth dist.	9055 Aug 11 19:36	23° Ω 15'13	1.32691 AU
						_	
superior conj	9054 Aug 30 10:14	15° m 01'00	0°53'39	superior conj	9055 Aug 14 17:04	29° Ω 25'50	0°29'33
minimum elong	9054 Aug 30 08:10	14° m 49'36	0°53'11	minimum elong	9055 Aug 14 15:42	29° Ω 18′28	0°29'07
evening rise	9054 Sep 06 04:52	29° m 51'40			9055 Aug 14 23:24	0° m ∕	
	9054 Sep 06 06:25	0∘ ⊽		evening rise	9055 Aug 21 16:27	14° m 30'57	
	9054 Sep 22 15:59	0° M.			9055 Aug 29 09:20	0∘ ⊽	
desc. node	9054 Sep 28 06:13	7° M 19'39		evening max el	9055 Sep 13 10:48	21° ≏ 30'41	23°07'06
evening max el	9054 Oct 01 23:47	11°ML17'33	24°45'52	desc. node	9055 Sep 15 03:21	23° ≏ 03'31	
retrograde	9054 Oct 15 19:23	18°ML14'33		retrograde	9055 Sep 26 19:34	28° ≏ 11'06	
evening set	9054 Oct 21 05:52	17°ML08'20		evening set	9055 Sep 30 18:33	27° ≏ 36'52	
min. Earth dist.	9054 Oct 26 10:59	14°ML23'00	0.56780 AU	min. Earth dist.	9055 Oct 07 19:54	24° ≏ 22'26	0.55338 AU

inferior conj	9055 Oct 09 09:59	23° ≏ 27'11	5033144	retrograde	9056 Sep 06 09:19	7° £ 54'42	
minimum elong	9055 Oct 09 06:26	23° ⊆ 2711 23° ⊆ 32'20		evening set	9056 Sep 08 23:50	7° ⊆ 39'14	
morning rise	9055 Oct 17 20:19	19° 2 36'54	3 33 23	inferior conj	9056 Sep 18 03:53	7 = 3914 3° ⊆ 41'50	-4°41'04
direct	9055 Oct 20 20:25	19° ⊆ 30'34		minimum elong	9056 Sep 17 18:34	3° £ 54'53	
morning max el	9055 Oct 31 20:08	24° £ 25'01	20°38'58	min. Earth dist.	9056 Sep 18 04:14		0.54678 AU
morning max ci	9055 Nov 05 17:51	0°M	20 38 38	mm. Lattii dist.	9056 Sep 26 01:48	30°RM)	0.54078 AO
asc. node	9055 Nov 07 17:42	2°M48'21		morning rise	9056 Sep 26 14:13	29° Mp 51'28	
morning set	9055 Nov 19 20:44	25°M00'06		direct	9056 Sep 30 05:57	29° m) 22'28	
morning sec	9055 Nov 22 06:36	0° √		direct	9056 Oct 04 07:01	0° ⊡	
	9033 NOV 22 00.30	0 ^		marning may al	9056 Oct 12 17:18	o = 5° Ω 17'32	22014/10
aumorior aoni	9055 Nov 27 07:55	10° ∡ 27'10	1°33'39	morning max el		21° £ 04'56	22 14 16
superior conj				asc. node	9056 Oct 24 14:41		
minimum elong	9055 Nov 27 09:47	10° 🗷 36'41	1°33'46		9056 Oct 29 11:36	0°M	
max. Earth dist.	9055 Dec 02 10:25	20° 🗷 37'12	1.36046 AU	morning set	9056 Nov 03 07:10	9°M48'18	
evening rise	9055 Dec 06 08:35	28° ∡ 02'49			005631 10 00 00	2.40 m 5.411.6	1040110
	9055 Dec 07 10:07	0°る		superior conj	9056 Nov 10 09:22	24°M54'16	1°40'10
desc. node	9055 Dec 12 02:04	8° る 14'57		minimum elong	9056 Nov 10 09:57	24°M57'20	1°40'21
	9055 Dec 25 22:40	0° ≈			9056 Nov 12 19:43	0° ∡	
evening max el	9056 Jan 10 21:21	19° ≈ 34'00	26°09'28	max. Earth dist.	9056 Nov 14 01:03	2° ₹ 31'09	1.34290 AU
retrograde	9056 Jan 23 14:27	26° ≈ 47'07		evening rise	9056 Nov 18 12:23	11° ₹ 26′22	
evening set	9056 Jan 29 19:12	24°≈16′04		desc. node	9056 Nov 27 23:07	28° ≯ 34'05	
min. Earth dist.	9056 Feb 03 00:14	19° ≈ 50′05	0.66844 AU		9056 Nov 28 19:35	0°ಕ	
asc. node	9056 Feb 03 16:54	18° ≈ 58'50			9056 Dec 20 07:12	0° ≈	
inferior conj	9056 Feb 04 14:45	17° ≈ 51'07	0°18'02	evening max el	9056 Dec 23 10:50	3°≈13'45	27°00'24
minimum elong	9056 Feb 04 14:16	17° ≈ 52'35	0°18'02	retrograde	9057 Jan 05 17:49	10° ≈ 34′09	
morning rise	9056 Feb 10 10:03	12° ≈ 04'00		evening set	9057 Jan 12 09:23	7° ≈ 59'02	
direct	9056 Feb 13 13:20	11° ≈ 08'04		min. Earth dist.	9057 Jan 16 08:44	4° ≈ 07'04	0.65541 AU
morning max el	9056 Feb 20 05:24	14° ≈ 44'57	18°41'29	inferior conj	9057 Jan 18 10:52	1° ≈ 44'10	-0°42'44
	9056 Mar 02 15:25	0° ∀		minimum elong	9057 Jan 18 12:07	1° ≈ 40'38	0°41'59
desc. node	9056 Mar 09 01:47	9° ¥ 58'15			9057 Jan 20 00:10	30°Rる	
morning set	9056 Mar 12 14:05	15°) 28'47		asc. node	9057 Jan 20 13:59	29° る 23'26	
	9056 Mar 21 20:28	0 ° $\mathbf{\Upsilon}$		morning rise	9057 Jan 24 16:05	26° පි 08'48	
max. Earth dist.	9056 Mar 27 23:41	9° Ƴ 35'52	1.45472 AU	direct	9057 Jan 27 10:01	25° පි 27'54	
				morning max el	9057 Feb 02 20:14	28° る 52'24	18°06'56
superior conj	9056 Mar 28 21:03	10° Ƴ 59'32	-1°55'33		9057 Feb 03 22:08	0° ≈	
minimum elong	9056 Mar 28 12:33	10° Y 26′15	1°54'59	morning set	9057 Feb 21 08:00	26°≈10'25	
S	9056 Apr 09 22:00	0°8		desc. node	9057 Feb 23 22:43	0°) 25′23	
evening rise	9056 Apr 13 07:37	5° 8 26'06			9057 Feb 23 16:28	0°) €	
greatest brilliancy	9056 Apr 20 19:38	17° 8 26'37	-0.9m				
8	9056 Apr 29 01:30	0°II	****	superior conj	9057 Mar 08 03:51	19° ¥ 57'06	-1°21'24
asc. node	9056 May 01 15:33	3° Ⅱ 27'05		minimum elong	9057 Mar 07 18:58	19°) €22'06	1°20'19
evening max el	9056 May 04 12:14	6° Ⅱ 42'30	18°42'47	max. Earth dist.	9057 Mar 10 19:28	24°) (07'03	1.45484 AU
retrograde	9056 May 11 02:51	10° Ⅱ 20′23			9057 Mar 14 13:46	0°Υ	
evening set	9056 May 14 09:12	9° I 19'31		evening rise	9057 Mar 24 07:28	15° Y 07'41	
inferior conj	9056 May 20 00:16	3° П 41'26	3°18'52	evening rise	9057 Apr 02 22:56	0°8	
minimum elong	9056 May 20 01:02	3° I I39'04	3°18'35	greatest brilliancy	9057 Apr 05 23:33	4° 8 34'44	-0.7m
min. Earth dist.	9056 May 21 22:03	1° Ⅱ 20'51	0.65492 AU	evening max el	9057 Apr 17 19:55	20° 8 20'38	19°27'34
mm. Lattii dist.	9056 May 23 01:40	30°R 8	0.03472710	asc. node	9057 Apr 18 12:39	21° 8 01'37	1) 2/54
morning rise	9056 May 25 16:09	27° 8 23'01		retrograde	9057 Apr 24 23:57	24° 8 24'44	
direct	9056 Jun 01 04:33	24° 8 37'00		evening set	9057 Apr 28 14:31	23° 8 08'46	
desc. node	9056 Jun 05 01:39	25° 8 26'47		inferior conj	9057 May 04 00:25		3°20'30
dese. Hode	9056 Jun 11 20:43	0°II		minimum elong	9057 May 04 00:25 9057 May 03 23:57	17° 8 17'05	3°20'18
morning max el	9056 Jun 14 11:02	2° Ⅱ 28'21	26°55'28	min. Earth dist.	9057 May 05 07:04	17 8 17 03	0.66913 AU
morning max cr	9056 Jul 05 03:02	0°9	20 33 28	morning rise	9057 May 09 09:02	10° 8 56'51	0.00713 AC
marning sat	9056 Jul 20 04:43	26° © 17'22		direct	•	8° 8 14'38	
morning set	9056 Jul 22 02:40	20 3 1722 0° Ω		desc. node	9057 May 15 11:46	11° 8 17'07	
may Earth dist	9056 Jul 24 11:47	0 δι 4° Ω 43'41	1.33974 AU		9057 May 22 22:40	15° 8 39'24	25°44'33
max. Earth dist.	9030 Jul 24 11.47	4 064341	1.33974 AU	morning max el	9057 May 27 21:03	0° Ⅱ	23 44 33
gunariar car:	0056 Jul 20 10:10	120 0 20127	0001120		9057 Jun 08 16:19	0. 0. П	
superior conj	9056 Jul 28 18:19	13° Ω 30′27	0°01'28	morning	9057 Jun 28 00:02		
minimum elong	9056 Jul 28 18:15	13° Ω 30'05	0°01'16	morning set	9057 Jul 02 23:35	8°951'51	1 25722 411
behind sun begin	9056 Jul 28 12:34	13° Ω 00'25		max. Earth dist.	9057 Jul 06 17:21	15° © 50'53	1.35732 AU
behind sun end	9056 Jul 28 23:55	13° £ 59'47			005711 12 11 1	270	0020127
asc. node	9056 Jul 28 14:49	13° Ω 12'08		superior conj	9057 Jul 12 11:19	27°507'19	
evening rise	9056 Aug 05 02:47	29° Ω 03'16		minimum elong	9057 Jul 12 13:06	27° © 16'16	0~29'30
	9056 Aug 05 13:37	0° m)		_	9057 Jul 13 21:28	0° Ω	
	9056 Aug 23 09:13	0∘ ত		asc. node	9057 Jul 15 11:47	3° Ω 15'39	
evening max el	9056 Aug 25 02:59	1° £ 49'41	21°30'55	evening rise	9057 Jul 20 09:44	13° Ω 22'11	
desc. node	9056 Sep 01 00:29	6° ≏ 44'58			9057 Jul 29 01:28	0° т р	

	0057 1 07 07 07	120 m- 42142	20000120	. 1	0050 1 1 20 22 51	200 0 40101	
evening max el	9057 Aug 07 07:06	12° m/42'43	20°09'29	retrograde	9058 Jul 29 23:51	28° Ω 48'01	
retrograde	9057 Aug 17 22:23	17° m 58'33		evening set	9058 Jul 31 21:04	28° Ω 37'03	
desc. node	9057 Aug 18 21:38	17° Mp 56'06		desc. node	9058 Aug 05 18:45	26° Ω 39'59	
evening set	9057 Aug 19 20:48	17° m 48'53		inferior conj	9058 Aug 09 07:40	24° Ω 24'40	
inferior conj	9057 Aug 28 22:34	13° m 50'18	-3°01'15	minimum elong	9058 Aug 09 04:49	24° Ω 29'31	1°04'25
minimum elong	9057 Aug 28 14:29	14°Mp02'18	2°58'31	min. Earth dist.	9058 Aug 12 03:28	22° Ω 30'11	0.56152 AU
min. Earth dist.	9057 Aug 30 14:02	12° m 51'46	0.54963 AU	morning rise	9058 Aug 17 09:34	19° Ω 38'47	
morning rise	9057 Sep 06 07:02	9° ™ 39'45		direct	9058 Aug 22 14:51	18° Ω 35'36	
direct	9057 Sep 10 16:45	8° m ,57'47		morning max el	9058 Sep 05 19:08	25° Ω 49'22	25°41'46
morning max el	9057 Sep 24 06:25	15° mp 35'52	24°00'26		9058 Sep 09 17:53	0° m p	
	9057 Oct 05 16:14	0∘ ⊽		asc. node	9058 Sep 28 08:36	29° m 18'33	
asc. node	9057 Oct 11 11:39	9° £ 58'09			9058 Sep 28 16:59	0° ٽ	
morning set	9057 Oct 18 18:55	24° £ 37'43		morning set	9058 Oct 03 06:16	9° Ω 23'29	
morning out	9057 Oct 21 06:48	0°M		morning ser	, 000 0 01 00 00.10	, —23 2	
	7037 Oct 21 00.40	0 110		superior conj	9058 Oct 10 02:49	24° ≏ 23'57	1°33'53
superior conj	9057 Oct 25 16:26	9°M35'30	1°40'02	minimum elong	9058 Oct 10 02:49		1°33'52
	9057 Oct 25 15:49	9°M32'11	1°40'10	max. Earth dist.	9058 Oct 10 01:10 9058 Oct 11 05:48	24° ⊆ 1323 26° ⊆ 52'44	1.32048 AU
minimum elong				max. Earth dist.			1.32048 AU
max. Earth dist.	9057 Oct 28 00:05	14°M35'42	1.32944 AU		9058 Oct 12 15:59	0°M	
evening rise	9057 Nov 02 03:53	25°M20'16		evening rise	9058 Oct 17 03:54	9° ™ 36′07	
	9057 Nov 04 12:17	0°⊀			9058 Oct 27 20:01	0° ∡	
desc. node	9057 Nov 14 20:11	18° ≯ 33'25		desc. node	9058 Nov 01 17:15	8° ∡ 04'43	
	9057 Nov 22 06:39	0°ප		evening max el	9058 Nov 18 08:12	29° ∡ ¹20'19	27°23'47
evening max el	9057 Dec 05 23:13	16° පි 33'37	27°27'11		9058 Nov 19 01:19	o°る	
retrograde	9057 Dec 19 14:30	23° る 53'08		retrograde	9058 Dec 02 04:02	6°₹35'06	
evening set	9057 Dec 26 13:59	21° る 20'46		evening set	9058 Dec 09 05:55	4° る 14'30	
min. Earth dist.	9057 Dec 30 08:42	18° る 00'57	0.63903 AU	min. Earth dist.	9058 Dec 12 22:23	1° る 21'32	0.61984 AU
inferior conj	9058 Jan 01 22:13	15° る 22'21	-1°50'14		9058 Dec 14 10:20	30°R. ✓	
minimum elong	9058 Jan 02 01:41	15° る 13'22		inferior conj	9058 Dec 15 21:44	28° х 38′05	-3°01'47
asc. node	9058 Jan 07 11:05	10° පි 36'02	1 1033	minimum elong	9058 Dec 16 03:36	28° ⋌ ¹24'37	
morning rise	9058 Jan 08 15:11	10° ප 01'49		morning rise	9058 Dec 23 03:35	23°×2+37	2 37 23
direct	9058 Jan 11 01:47	9° る 32'12		direct	9058 Dec 25 09:21	23° × 33'48' 23° × 13'50	
			17940125				
morning max el	9058 Jan 17 13:33		17°49'35	asc. node	9058 Dec 25 08:10	23° 🖈 13'51	17050103
	9058 Jan 29 09:43	0° ≈		morning max el	9059 Jan 01 06:14		17°50'02
morning set	9058 Feb 03 05:41	8° ≈ 13'09		_	9059 Jan 04 02:59	0° ろ	
desc. node	9058 Feb 10 19:38	21° ≈ 01'59		morning set	9059 Jan 17 00:53	21° る 16'57	
					9059 Jan 21 22:07	0° ≈	
superior conj	9058 Feb 16 02:33	29° ≈ 43'58	-0°38'08				
minimum elong	9058 Feb 15 22:20	29° ≈ 26′51	0°37'23	superior conj	9059 Jan 28 02:06	10° ≈ 42′50	0°04'29
	9058 Feb 16 06:30	0° ∀		minimum elong	9059 Jan 28 02:32	10° ≈ 44'40	0°04'38
max. Earth dist.	9058 Feb 21 14:46	8°) 34'35	1.44755 AU	behind sun begin	9059 Jan 27 18:11	10° ≈ 09'03	
evening rise	9058 Mar 03 19:27	24°) 28′09		behind sun end	9059 Jan 28 10:53	11° ≈ 20'11	
-	9058 Mar 07 10:23	$0^{\circ}\mathbf{\Upsilon}$		desc. node	9059 Jan 28 16:31	11° ≈ 44'05	
	9058 Mar 28 08:56	0°8			9039 Jan 20 10.31	11 ~~++ 03	
evening max el				max. Earth dist.			1.43376 AU
•	9058 Mar 31 22:17		20°27'18	max. Earth dist.	9059 Feb 04 06:29	22° ≈ 39'37	1.43376 AU
asc node	9058 Mar 31 22:17 9058 Apr. 05 09:46	4° 8 00'53	20°27'18		9059 Feb 04 06:29 9059 Feb 08 20:24	22° ≈ 39'37 0°) €	1.43376 AU
asc. node	9058 Apr 05 09:46	4° 엉 00'53 7° 엉 38'27	20°27'18	max. Earth dist.	9059 Feb 04 06:29 9059 Feb 08 20:24 9059 Feb 11 10:32	22°≈39'37 0°¥ 4°¥03'55	1.43376 AU
retrograde	9058 Apr 05 09:46 9058 Apr 08 22:34	4° 엉 00'53 7° 엉 38'27 8° 엉 40'56	20°27'18	evening rise	9059 Feb 04 06:29 9059 Feb 08 20:24 9059 Feb 11 10:32 9059 Feb 28 20:09	22°≈39'37 0°¥ 4°¥03'55 0°Y	
retrograde evening set	9058 Apr 05 09:46 9058 Apr 08 22:34 9058 Apr 12 22:12	4°800'53 7°838'27 8°840'56 7°809'36		evening rise evening max el	9059 Feb 04 06:29 9059 Feb 08 20:24 9059 Feb 11 10:32 9059 Feb 28 20:09 9059 Mar 14 19:02	22°≈39'37 0°¥ 4°¥03'55 0°° 17°°Y41'36	1.43376 AU 21°38'52
retrograde evening set inferior conj	9058 Apr 05 09:46 9058 Apr 08 22:34 9058 Apr 12 22:12 9058 Apr 18 05:39	4°800'53 7°838'27 8°840'56 7°809'36 1°803'04	3°09'42	evening rise evening max el asc. node	9059 Feb 04 06:29 9059 Feb 08 20:24 9059 Feb 11 10:32 9059 Feb 28 20:09 9059 Mar 14 19:02 9059 Mar 23 06:54	22°≈39'37 0°¥ 4°¥03'55 0° ° 17° ° ¥41'36 23° ° 01'41	
retrograde evening set inferior conj minimum elong	9058 Apr 05 09:46 9058 Apr 08 22:34 9058 Apr 12 22:12 9058 Apr 18 05:39 9058 Apr 18 04:14	4°800'53 7°838'27 8°840'56 7°809'36 1°803'04 1°807'56	3°09'42 3°09'23	evening rise evening max el asc. node retrograde	9059 Feb 04 06:29 9059 Feb 08 20:24 9059 Feb 11 10:32 9059 Feb 28 20:09 9059 Mar 14 19:02 9059 Mar 23 06:54 9059 Mar 23 20:38	22°≈39'37 0° ★ 4° ★03'55 0° Ŷ 17° Ŷ41'36 23° Ŷ01'41 23° Ŷ03'20	
retrograde evening set inferior conj	9058 Apr 05 09:46 9058 Apr 08 22:34 9058 Apr 12 22:12 9058 Apr 18 05:39 9058 Apr 18 04:14 9058 Apr 18 22:07	4°800'53 7°838'27 8°840'56 7°809'36 1°803'04 1°807'56 0°806'40	3°09'42	evening rise evening max el asc. node retrograde evening set	9059 Feb 04 06:29 9059 Feb 08 20:24 9059 Feb 11 10:32 9059 Feb 28 20:09 9059 Mar 14 19:02 9059 Mar 23 06:54 9059 Mar 23 20:38 9059 Mar 28 06:25	22°≈39'37 0° X 4° X 03'55 0° Y 17° Y 41'36 23° Y 01'41 23° Y 03'20 21° Y 16'45	21°38'52
retrograde evening set inferior conj minimum elong min. Earth dist.	9058 Apr 05 09:46 9058 Apr 08 22:34 9058 Apr 12 22:12 9058 Apr 18 05:39 9058 Apr 18 04:14 9058 Apr 18 22:07 9058 Apr 19 00:05	4°800'53 7°838'27 8°840'56 7°809'36 1°803'04 1°807'56 0°806'40 30°8°	3°09'42 3°09'23	evening rise evening max el asc. node retrograde evening set inferior conj	9059 Feb 04 06:29 9059 Feb 08 20:24 9059 Feb 11 10:32 9059 Feb 28 20:09 9059 Mar 14 19:02 9059 Mar 23 06:54 9059 Mar 23 20:38 9059 Mar 28 06:25 9059 Apr 02 13:40	22°≈39'37 0° ₩ 4° ₩ 03'55 0° Ψ 17° Ψ 41'36 23° Ψ 01'41 23° Ψ 03'20 21° Ψ 16'45 14° Ψ 59'19	21°38'52 2°48'18
retrograde evening set inferior conj minimum elong	9058 Apr 05 09:46 9058 Apr 08 22:34 9058 Apr 12 22:12 9058 Apr 18 05:39 9058 Apr 18 04:14 9058 Apr 18 22:07 9058 Apr 19 00:05 9058 Apr 23 10:03	4°800'53 7°838'27 8°840'56 7°809'36 1°803'04 1°807'56 0°806'40 30°8°4 24°8'46'32	3°09'42 3°09'23	evening rise evening max el asc. node retrograde evening set	9059 Feb 04 06:29 9059 Feb 08 20:24 9059 Feb 11 10:32 9059 Feb 28 20:09 9059 Mar 14 19:02 9059 Mar 23 06:54 9059 Mar 23 20:38 9059 Mar 28 06:25 9059 Apr 02 13:40 9059 Apr 02 11:38	22°≈39'37 0° ₩ 4° ₩ 03'55 0° Ψ 17° Ψ 41'36 23° Ψ 01'41 23° Ψ 03'20 21° Ψ 16'45 14° Ψ 59'19 15° Ψ 06'23	21°38'52 2°48'18 2°47'49
retrograde evening set inferior conj minimum elong min. Earth dist.	9058 Apr 05 09:46 9058 Apr 08 22:34 9058 Apr 12 22:12 9058 Apr 18 05:39 9058 Apr 18 04:14 9058 Apr 18 22:07 9058 Apr 19 00:05	4°800'53 7°838'27 8°840'56 7°809'36 1°803'04 1°807'56 0°806'40 30°RΥ 24°Υ46'32 22°Υ17'15	3°09'42 3°09'23	evening rise evening max el asc. node retrograde evening set inferior conj	9059 Feb 04 06:29 9059 Feb 08 20:24 9059 Feb 11 10:32 9059 Feb 28 20:09 9059 Mar 14 19:02 9059 Mar 23 06:54 9059 Mar 23 20:38 9059 Mar 28 06:25 9059 Apr 02 13:40	22°≈39'37 0° ₩ 4° ₩ 03'55 0° Ψ 17° Ψ 41'36 23° Ψ 01'41 23° Ψ 03'20 21° Ψ 16'45 14° Ψ 59'19 15° Ψ 06'23 14° Ψ 47'13	21°38'52 2°48'18
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	9058 Apr 05 09:46 9058 Apr 08 22:34 9058 Apr 12 22:12 9058 Apr 18 05:39 9058 Apr 18 04:14 9058 Apr 18 22:07 9058 Apr 19 00:05 9058 Apr 23 10:03	4°800'53 7°838'27 8°840'56 7°809'36 1°803'04 1°807'56 0°806'40 30°8°4 24°8'46'32	3°09'42 3°09'23	evening rise evening max el asc. node retrograde evening set inferior conj minimum elong	9059 Feb 04 06:29 9059 Feb 08 20:24 9059 Feb 11 10:32 9059 Feb 28 20:09 9059 Mar 14 19:02 9059 Mar 23 06:54 9059 Mar 23 20:38 9059 Mar 28 06:25 9059 Apr 02 13:40 9059 Apr 02 11:38	22°≈39'37 0° ₩ 4° ₩ 03'55 0° Ψ 17° Ψ 41'36 23° Ψ 01'41 23° Ψ 03'20 21° Ψ 16'45 14° Ψ 59'19 15° Ψ 06'23	21°38'52 2°48'18 2°47'49
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	9058 Apr 05 09:46 9058 Apr 08 22:34 9058 Apr 12 22:12 9058 Apr 18 05:39 9058 Apr 18 04:14 9058 Apr 18 22:07 9058 Apr 19 00:05 9058 Apr 23 10:03 9058 Apr 29 00:15	4°800'53 7°838'27 8°840'56 7°809'36 1°803'04 1°807'56 0°806'40 30°RΥ 24°Υ46'32 22°Υ17'15	3°09'42 3°09'23	evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	9059 Feb 04 06:29 9059 Feb 08 20:24 9059 Feb 11 10:32 9059 Feb 28 20:09 9059 Mar 14 19:02 9059 Mar 23 06:54 9059 Mar 23 20:38 9059 Mar 28 06:25 9059 Apr 02 13:40 9059 Apr 02 11:38 9059 Apr 02 17:08	22°≈39'37 0° ₩ 4° ₩ 03'55 0° Ψ 17° Ψ 41'36 23° Ψ 01'41 23° Ψ 03'20 21° Ψ 16'45 14° Ψ 59'19 15° Ψ 06'23 14° Ψ 47'13	21°38'52 2°48'18 2°47'49
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	9058 Apr 05 09:46 9058 Apr 08 22:34 9058 Apr 12 22:12 9058 Apr 18 05:39 9058 Apr 18 04:14 9058 Apr 18 22:07 9058 Apr 19 00:05 9058 Apr 23 10:03 9058 Apr 29 00:15 9058 May 09 19:39	4°800'53 7°838'27 8°840'56 7°809'36 1°803'04 1°807'56 0°806'40 30°8Ψ 24°Ψ46'32 22°Ψ17'15 28°Ψ34'31	3°09'42 3°09'23 0.67879 AU	evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	9059 Feb 04 06:29 9059 Feb 08 20:24 9059 Feb 11 10:32 9059 Feb 28 20:09 9059 Mar 14 19:02 9059 Mar 23 06:54 9059 Mar 23 20:38 9059 Mar 28 06:25 9059 Apr 02 13:40 9059 Apr 02 11:38 9059 Apr 02 17:08 9059 Apr 07 16:41	22°≈39'37 0°	21°38'52 2°48'18 2°47'49
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	9058 Apr 05 09:46 9058 Apr 08 22:34 9058 Apr 12 22:12 9058 Apr 18 05:39 9058 Apr 18 04:14 9058 Apr 18 22:07 9058 Apr 19 00:05 9058 Apr 23 10:03 9058 Apr 29 00:15 9058 May 09 19:39 9058 May 10 06:22	4°800'53 7°838'27 8°840'56 7°809'36 1°803'04 1°807'56 0°806'40 30°8° 24°°46'32 22°°17'15 28°°434'31 29°°401'20	3°09'42 3°09'23 0.67879 AU	evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	9059 Feb 04 06:29 9059 Feb 08 20:24 9059 Feb 11 10:32 9059 Feb 28 20:09 9059 Mar 14 19:02 9059 Mar 23 06:54 9059 Mar 23 20:38 9059 Mar 28 06:25 9059 Apr 02 13:40 9059 Apr 02 17:08 9059 Apr 07 16:41 9059 Apr 12 17:10 9059 Apr 22 16:35	22°≈39'37 0° ★ 4° ★ 03'55 0° Ŷ 17° Ŷ 41'36 23° Ŷ 01'41 23° Ŷ 03'20 21° Ŷ 16'45 14° Ŷ 59'19 15° Ŷ 06'23 14° Ŷ 47'13 8° Ŷ 46'29 6° Ŷ 36'04	21°38'52 2°48'18 2°47'49 0.68395 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	9058 Apr 05 09:46 9058 Apr 08 22:34 9058 Apr 12 22:12 9058 Apr 18 05:39 9058 Apr 18 04:14 9058 Apr 18 22:07 9058 Apr 19 00:05 9058 Apr 23 10:03 9058 Apr 29 00:15 9058 May 09 19:39 9058 May 10 06:22 9058 May 11 05:04	4°800'53 7°838'27 8°840'56 7°809'36 1°803'04 1°807'56 0°806'40 30°8Ψ 24°Ψ46'32 22°Ψ17'15 28°Ψ34'31 29°Ψ01'20 0°8 0°II	3°09'42 3°09'23 0.67879 AU	evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	9059 Feb 04 06:29 9059 Feb 08 20:24 9059 Feb 11 10:32 9059 Feb 28 20:09 9059 Mar 14 19:02 9059 Mar 23 06:54 9059 Mar 23 20:38 9059 Mar 28 06:25 9059 Apr 02 13:40 9059 Apr 02 11:38 9059 Apr 02 17:08 9059 Apr 07 16:41 9059 Apr 12 17:10	22°≈39'37 0° ★ 4° ★03'55 0° Ŷ 17° Ŷ41'36 23° Ŷ01'41 23° Ŷ03'20 21° Ŷ16'45 14° Ŷ59'19 15° Ŷ06'23 14° Ŷ47'13 8° Ŷ46'29 6° Ŷ36'04 12° Ŷ30'15 16° Ŷ54'20	21°38'52 2°48'18 2°47'49 0.68395 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	9058 Apr 05 09:46 9058 Apr 08 22:34 9058 Apr 12 22:12 9058 Apr 18 05:39 9058 Apr 18 04:14 9058 Apr 18 22:07 9058 Apr 19 00:05 9058 Apr 23 10:03 9058 Apr 29 00:15 9058 May 09 19:39 9058 May 10 06:22 9058 May 11 05:04 9058 Jun 02 10:58 9058 Jun 14 23:32	4°800'53 7°838'27 8°840'56 7°809'36 1°803'04 1°807'56 0°806'40 30°8Ψ 24°Ψ46'32 22°Ψ17'15 28°Ψ34'31 29°Ψ01'20 0°8 0°11 20°131'36	3°09'42 3°09'23 0.67879 AU 24°19'14	evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	9059 Feb 04 06:29 9059 Feb 08 20:24 9059 Feb 11 10:32 9059 Feb 28 20:09 9059 Mar 14 19:02 9059 Mar 23 06:54 9059 Mar 23 20:38 9059 Mar 28 06:25 9059 Apr 02 13:40 9059 Apr 02 17:08 9059 Apr 02 17:08 9059 Apr 12 17:10 9059 Apr 22 16:35 9059 Apr 26 16:34 9059 May 06 16:26	22°≈39'37 0° € 4° € 63'55 0° № 17° № 41'36 23° № 03'20 21° № 16'45 14° № 59'19 15° № 06'23 14° № 47'13 8° № 46'29 6° № 36'04 12° № 30'15 16° № 54'20 0° €	21°38'52 2°48'18 2°47'49 0.68395 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	9058 Apr 05 09:46 9058 Apr 08 22:34 9058 Apr 12 22:12 9058 Apr 18 05:39 9058 Apr 18 04:14 9058 Apr 18 22:07 9058 Apr 19 00:05 9058 Apr 23 10:03 9058 Apr 29 00:15 9058 May 09 19:39 9058 May 10 06:22 9058 May 11 05:04 9058 Jun 02 10:58 9058 Jun 14 23:32 9058 Jun 18 15:26	4°800'53 7°838'27 8°840'56 7°809'36 1°807'56 0°806'40 30°8Ψ 24°Ψ46'32 22°Ψ17'15 28°Ψ34'31 29°Ψ01'20 0°8 0°Π 20°Π31'36 27°Π00'22	3°09'42 3°09'23 0.67879 AU	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	9059 Feb 04 06:29 9059 Feb 08 20:24 9059 Feb 11 10:32 9059 Feb 28 20:09 9059 Mar 14 19:02 9059 Mar 23 06:54 9059 Mar 23 20:38 9059 Mar 28 06:25 9059 Apr 02 13:40 9059 Apr 02 17:08 9059 Apr 02 17:08 9059 Apr 12 17:10 9059 Apr 12 17:10 9059 Apr 22 16:35 9059 Apr 26 16:34 9059 May 06 16:26 9059 May 26 07:56	22°≈39'37 0°	21°38'52 2°48'18 2°47'49 0.68395 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	9058 Apr 05 09:46 9058 Apr 08 22:34 9058 Apr 12 22:12 9058 Apr 18 05:39 9058 Apr 18 04:14 9058 Apr 18 22:07 9058 Apr 19 00:05 9058 Apr 23 10:03 9058 Apr 29 00:15 9058 May 09 19:39 9058 May 10 06:22 9058 May 11 05:04 9058 Jun 02 10:58 9058 Jun 14 23:32	4°800'53 7°838'27 8°840'56 7°809'36 1°803'04 1°807'56 0°806'40 30°8Ψ 24°Ψ46'32 22°Ψ17'15 28°Ψ34'31 29°Ψ01'20 0°8 0°11 20°131'36	3°09'42 3°09'23 0.67879 AU 24°19'14	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	9059 Feb 04 06:29 9059 Feb 08 20:24 9059 Feb 11 10:32 9059 Feb 28 20:09 9059 Mar 14 19:02 9059 Mar 23 06:54 9059 Mar 23 20:38 9059 Mar 28 06:25 9059 Apr 02 13:40 9059 Apr 02 17:08 9059 Apr 02 17:08 9059 Apr 12 17:10 9059 Apr 12 17:10 9059 Apr 22 16:35 9059 Apr 26 16:34 9059 May 06 16:26 9059 May 26 07:56 9059 May 26 23:03	22°≈39'37 0°	21°38'52 2°48'18 2°47'49 0.68395 AU 22°49'21
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	9058 Apr 05 09:46 9058 Apr 08 22:34 9058 Apr 12 22:12 9058 Apr 18 05:39 9058 Apr 18 04:14 9058 Apr 18 22:07 9058 Apr 19 00:05 9058 Apr 23 10:03 9058 Apr 29 00:15 9058 May 09 19:39 9058 May 10 06:22 9058 May 11 05:04 9058 Jun 02 10:58 9058 Jun 14 23:32 9058 Jun 18 15:26 9058 Jun 20 07:01	4°800'53 7°838'27 8°840'56 7°809'36 1°807'56 0°806'40 30°8Ψ 24°Ψ46'32 22°Ψ17'15 28°Ψ34'31 29°Ψ01'20 0°8 0°Π 20°Π31'36 27°Π00'22 0°\$	3°09'42 3°09'23 0.67879 AU 24°19'14	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	9059 Feb 04 06:29 9059 Feb 08 20:24 9059 Feb 11 10:32 9059 Feb 28 20:09 9059 Mar 14 19:02 9059 Mar 23 06:54 9059 Mar 23 20:38 9059 Mar 28 06:25 9059 Apr 02 13:40 9059 Apr 02 17:08 9059 Apr 02 17:08 9059 Apr 12 17:10 9059 Apr 12 17:10 9059 Apr 22 16:35 9059 Apr 26 16:34 9059 May 06 16:26 9059 May 26 07:56	22°≈39'37 0°	21°38'52 2°48'18 2°47'49 0.68395 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	9058 Apr 05 09:46 9058 Apr 08 22:34 9058 Apr 12 22:12 9058 Apr 18 05:39 9058 Apr 18 04:14 9058 Apr 18 22:07 9058 Apr 19 00:05 9058 Apr 23 10:03 9058 Apr 29 00:15 9058 May 09 19:39 9058 May 10 06:22 9058 May 11 05:04 9058 Jun 02 10:58 9058 Jun 14 23:32 9058 Jun 18 15:26 9058 Jun 20 07:01	4°800'53 7°838'27 8°840'56 7°809'36 1°807'56 0°806'40 30°8Ψ 24°Ψ46'32 22°Ψ17'15 28°Ψ34'31 29°Ψ01'20 0°8 0°Π 20°Π31'36 27°Π00'22 0°9	3°09'42 3°09'23 0.67879 AU 24°19'14 1.37850 AU -1°01'59	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.	9059 Feb 04 06:29 9059 Feb 08 20:24 9059 Feb 11 10:32 9059 Feb 28 20:09 9059 Mar 14 19:02 9059 Mar 23 06:54 9059 Mar 23 20:38 9059 Mar 28 06:25 9059 Apr 02 13:40 9059 Apr 02 17:08 9059 Apr 02 17:08 9059 Apr 07 16:41 9059 Apr 12 17:10 9059 Apr 22 16:35 9059 Apr 26 16:34 9059 May 06 16:26 9059 May 26 07:56 9059 May 31 12:12	22°≈39'37 0°	21°38'52 2°48'18 2°47'49 0.68395 AU 22°49'21 1.40113 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	9058 Apr 05 09:46 9058 Apr 08 22:34 9058 Apr 18 05:39 9058 Apr 18 04:14 9058 Apr 18 22:07 9058 Apr 18 22:07 9058 Apr 19 00:05 9058 Apr 23 10:03 9058 Apr 29 00:15 9058 May 09 19:39 9058 May 10 06:22 9058 May 11 05:04 9058 Jun 02 10:58 9058 Jun 14 23:32 9058 Jun 14 23:32 9058 Jun 18 15:26 9058 Jun 20 07:01	4°800′53 7°838′27 8°840′56 7°809′36 1°803′04 1°807′56 0°806′40 30°8Ψ 24°Ψ46′32 22°Ψ17′15 28°Ψ34′31 29°Ψ01′20 0°8 0°Π 20°Π31′36 27°Π00′22 0°9 10°\$08′36 10°\$27′29	3°09'42 3°09'23 0.67879 AU 24°19'14 1.37850 AU -1°01'59	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	9059 Feb 04 06:29 9059 Feb 08 20:24 9059 Feb 11 10:32 9059 Feb 28 20:09 9059 Mar 14 19:02 9059 Mar 23 06:54 9059 Mar 23 20:38 9059 Mar 28 06:25 9059 Apr 02 13:40 9059 Apr 02 11:38 9059 Apr 02 17:08 9059 Apr 07 16:41 9059 Apr 12 17:10 9059 Apr 22 16:35 9059 Apr 26 16:34 9059 May 26 16:26 9059 May 26 23:03 9059 May 31 12:12	22°≈39'37 0°	21°38'52 2°48'18 2°47'49 0.68395 AU 22°49'21 1.40113 AU -1°32'54
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	9058 Apr 05 09:46 9058 Apr 08 22:34 9058 Apr 18 05:39 9058 Apr 18 04:14 9058 Apr 18 02:07 9058 Apr 18 22:07 9058 Apr 19 00:05 9058 Apr 23 10:03 9058 Apr 29 00:15 9058 May 09 19:39 9058 May 10 06:22 9058 May 11 05:04 9058 Jun 02 10:58 9058 Jun 14 23:32 9058 Jun 14 23:32 9058 Jun 18 15:26 9058 Jun 20 07:01 9058 Jun 25 16:47 9058 Jun 25 20:43 9058 Jul 02 08:46	4°800'53 7°838'27 8°840'56 7°809'36 1°807'56 0°806'40 30°8° 24°°46'32 22°°17'15 28°°34'31 29°°10'20 0°8 0°11 20°131'36 27°100'22 0°99 10°908'36 10°927'29 23°912'59	3°09'42 3°09'23 0.67879 AU 24°19'14 1.37850 AU -1°01'59	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.	9059 Feb 04 06:29 9059 Feb 08 20:24 9059 Feb 11 10:32 9059 Feb 28 20:09 9059 Mar 14 19:02 9059 Mar 23 06:54 9059 Mar 23 20:38 9059 Mar 28 06:25 9059 Apr 02 13:40 9059 Apr 02 11:38 9059 Apr 02 17:08 9059 Apr 07 16:41 9059 Apr 12 17:10 9059 Apr 22 16:35 9059 Apr 26 16:34 9059 May 06 16:26 9059 May 26 23:03 9059 May 31 12:12	22°≈39'37 0°	21°38'52 2°48'18 2°47'49 0.68395 AU 22°49'21 1.40113 AU -1°32'54
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	9058 Apr 05 09:46 9058 Apr 08 22:34 9058 Apr 12 22:12 9058 Apr 18 05:39 9058 Apr 18 04:14 9058 Apr 18 22:07 9058 Apr 19 00:05 9058 Apr 23 10:03 9058 Apr 29 00:15 9058 May 09 19:39 9058 May 10 06:22 9058 May 11 05:04 9058 Jun 02 10:58 9058 Jun 14 23:32 9058 Jun 18 15:26 9058 Jun 25 16:47 9058 Jun 25 16:47 9058 Jun 25 20:43 9058 Jul 02 08:46 9058 Jul 04 10:49	4°800'53 7°838'27 8°840'56 7°809'36 1°803'04 1°807'56 0°806'40 30°8Υ 24°Υ46'32 22°Υ17'15 28°Υ34'31 29°Υ01'20 0°8 0°Π 20°Π31'36 27°Π00'22 0°9 10°908'36 10°9027'29 23°912'59 27°921'20	3°09'42 3°09'23 0.67879 AU 24°19'14 1.37850 AU -1°01'59	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	9059 Feb 04 06:29 9059 Feb 08 20:24 9059 Feb 11 10:32 9059 Feb 28 20:09 9059 Mar 14 19:02 9059 Mar 23 06:54 9059 Mar 23 20:38 9059 Mar 28 06:25 9059 Apr 02 13:40 9059 Apr 02 17:08 9059 Apr 02 17:08 9059 Apr 07 16:41 9059 Apr 12 17:10 9059 Apr 22 16:35 9059 Apr 22 16:35 9059 Apr 26 16:34 9059 May 06 16:26 9059 May 26 23:03 9059 May 31 12:12 9059 Jun 08 06:32 9059 Jun 08 12:14 9059 Jun 12 09:16	22°≈39'37 0°	21°38'52 2°48'18 2°47'49 0.68395 AU 22°49'21 1.40113 AU -1°32'54
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 evening rise	9058 Apr 05 09:46 9058 Apr 08 22:34 9058 Apr 12 22:12 9058 Apr 18 05:39 9058 Apr 18 04:14 9058 Apr 18 22:07 9058 Apr 19 00:05 9058 Apr 23 10:03 9058 Apr 29 00:15 9058 May 09 19:39 9058 May 10 06:22 9058 May 11 05:04 9058 Jun 02 10:58 9058 Jun 14 23:32 9058 Jun 18 15:26 9058 Jun 20 07:01 9058 Jun 25 16:47 9058 Jun 25 20:43 9058 Jul 02 08:46 9058 Jul 04 10:49 9058 Jul 05 18:58	4°800'53 7°838'27 8°840'56 7°809'36 1°807'56 0°806'40 30°8Ψ 24°Ψ46'32 22°Ψ17'15 28°Ψ34'31 29°Ψ01'20 0°8 0°Π 20°Π31'36 27°Π00'22 0°9 10°908'36 10°927'29 23°912'59 27°921'20 0°Ω	3°09'42 3°09'23 0.67879 AU 24°19'14 1.37850 AU -1°01'59 1°01'35	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 evening rise	9059 Feb 04 06:29 9059 Feb 08 20:24 9059 Feb 11 10:32 9059 Feb 28 20:09 9059 Mar 14 19:02 9059 Mar 23 06:54 9059 Mar 23 20:38 9059 Mar 28 06:25 9059 Apr 02 13:40 9059 Apr 02 17:08 9059 Apr 02 17:08 9059 Apr 02 17:10 9059 Apr 12 17:10 9059 Apr 22 16:35 9059 Apr 26 16:34 9059 Apr 26 16:34 9059 May 06 16:26 9059 May 26 23:03 9059 May 31 12:12 9059 Jun 08 06:32 9059 Jun 08 06:32 9059 Jun 08 12:14 9059 Jun 12 09:16 9059 Jun 18 02:50	22°≈39'37 0°	21°38'52 2°48'18 2°47'49 0.68395 AU 22°49'21 1.40113 AU -1°32'54
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	9058 Apr 05 09:46 9058 Apr 08 22:34 9058 Apr 12 22:12 9058 Apr 18 05:39 9058 Apr 18 04:14 9058 Apr 18 22:07 9058 Apr 19 00:05 9058 Apr 23 10:03 9058 Apr 29 00:15 9058 May 09 19:39 9058 May 10 06:22 9058 May 11 05:04 9058 Jun 02 10:58 9058 Jun 14 23:32 9058 Jun 18 15:26 9058 Jun 25 16:47 9058 Jun 25 16:47 9058 Jun 25 20:43 9058 Jul 02 08:46 9058 Jul 04 10:49	4°800'53 7°838'27 8°840'56 7°809'36 1°803'04 1°807'56 0°806'40 30°8Υ 24°Υ46'32 22°Υ17'15 28°Υ34'31 29°Υ01'20 0°8 0°Π 20°Π31'36 27°Π00'22 0°9 10°908'36 10°9027'29 23°912'59 27°921'20	3°09'42 3°09'23 0.67879 AU 24°19'14 1.37850 AU -1°01'59 1°01'35	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	9059 Feb 04 06:29 9059 Feb 08 20:24 9059 Feb 11 10:32 9059 Feb 28 20:09 9059 Mar 14 19:02 9059 Mar 23 06:54 9059 Mar 23 20:38 9059 Mar 28 06:25 9059 Apr 02 13:40 9059 Apr 02 17:08 9059 Apr 02 17:08 9059 Apr 07 16:41 9059 Apr 12 17:10 9059 Apr 22 16:35 9059 Apr 22 16:35 9059 Apr 26 16:34 9059 May 06 16:26 9059 May 26 23:03 9059 May 31 12:12 9059 Jun 08 06:32 9059 Jun 08 12:14 9059 Jun 12 09:16	22°≈39'37 0°	21°38'52 2°48'18 2°47'49 0.68395 AU 22°49'21 1.40113 AU -1°32'54

	9059 Jun 28 21:34	$0^{\circ}\Omega$			9060 Jun 03 17:05	0°©	
evening max el	9059 Jul	6°Ω40'22	18°27'54	asc. node	9060 Jun 05 17:03 9060 Jun 05 02:46	2° © 30'22	
retrograde	9059 Jul 11 19:49	10° Ω 29'51	10 2/ 34	evening max el	9060 Jun 16 14:33	19° © 32'27	18°07'49
evening set	9059 Jul 11 19.49 9059 Jul 13 22:59	10 δ (29 51 10° Ω 12'54		retrograde	9060 Jun 23 09:42	19 95227 22°959'36	18 0/49
•		5°Ω41'09	0°37'11	•			
inferior conj	9059 Jul 21 13:58 9059 Jul 21 15:17	5° Ω 38'32	0°36'29	evening set	9060 Jun 25 20:39	22°532'57	1052124
minimum elong			0°36′29	inferior conj	9060 Jul 02 17:20		1°53'34
desc. node	9059 Jul 23 15:52	4°Ω01'31	0.50010.411	minimum elong	9060 Jul 02 20:14	17°934'12	1°52'26
min. Earth dist.	9059 Jul 24 22:24	3° Ω 02'25	0.58019 AU	min. Earth dist.	9060 Jul 06 00:27	14°539'24	0.60234 AU
morning rise	9059 Jul 29 04:03	0° Ω 18'36		morning rise	9060 Jul 09 16:59	11°950'33	
	9059 Jul 29 19:31	30°Rூ		desc. node	9060 Jul 09 12:57	11°956'55	
direct	9059 Aug 04 03:40	28°5546'09		direct	9060 Jul 16 05:36	9° © 47'12	
	9059 Aug 09 15:07	0° Ω		morning max el	9060 Jul 30 13:26	17° © 42'59	27°46'59
morning max el	9059 Aug 18 12:55	6° Ω 26'04	27°01'19		9060 Aug 09 19:08	0 \circ Ω	
	9059 Sep 05 01:26	0° ™			9060 Aug 27 17:25	0° ™	
asc. node	9059 Sep 15 05:30	18° m 58'13		morning set	9060 Aug 31 21:03	8° TD 23'36	
morning set	9059 Sep 17 15:34	24° Mp 00'25		asc. node	9060 Sep 01 02:24	8° Mp 51'29	
	9059 Sep 20 10:24	0∘ ⊽		max. Earth dist.	9060 Sep 07 00:32	21° m 37'42	1.31655 AU
	0050 0 24 14 22	00 0 12100	1022115		0060 0 00 01 51	220 m. 57127	1005120
superior conj	9059 Sep 24 14:33		1°22'15	superior conj	9060 Sep 08 01:51	•	1°05'29
minimum elong	9059 Sep 24 12:27	9° ₽ 01'27	1°22'01	minimum elong	9060 Sep 07 23:37	23° m/45'16	1°05'05
max. Earth dist.	9059 Sep 24 15:09	9° ≏ 16'26	1.31613 AU		9060 Sep 10 19:17	0∘ ⊽	
evening rise	9059 Oct 01 09:51	24° Ω 06'33		evening rise	9060 Sep 14 19:33	8° ≏ 45'20	
	9059 Oct 04 05:47	0° M ₊			9060 Sep 25 16:11	0° M	
desc. node	9059 Oct 19 14:21	26°M56'49 −		desc. node	9060 Oct 05 11:29	14° M 53′50	
	9059 Oct 21 17:58	0° ∡ ¹		evening max el	9060 Oct 12 06:40	22°M33'38	25°37'20
evening max el	9059 Oct 31 11:20	11° ∡ 22′27	26°46'45	retrograde	9060 Oct 26 04:39	29°M35'24	
retrograde	9059 Nov 14 09:28	18° ∡ ′31′12		evening set	9060 Nov 01 06:47	28° ™ 09'19	
evening set	9059 Nov 21 05:10	16° ∡ ′33'07		min. Earth dist.	9060 Nov 05 19:05	25°M32'14	0.57835 AU
min. Earth dist.	9059 Nov 25 01:28	13° ∡ ′56′13	0.59892 AU	inferior conj	9060 Nov 08 19:38	23° M 25'48	-5°09'44
inferior conj	9059 Nov 28 06:01	11° ∡ ¹22'39	-4°11'48	minimum elong	9060 Nov 09 02:05		5°08'26
minimum elong	9059 Nov 28 13:29	11° ∡ ¹07'37	4°09'26	morning rise	9060 Nov 16 23:42	19° M 07'06	
morning rise	9059 Dec 06 00:18	6° ∡ ¹41'27		direct	9060 Nov 19 07:25	18° ™ 50′24	
direct	9059 Dec 08 04:36	6° ∡ ¹23'47		morning max el	9060 Nov 27 23:34	23°M01'13	18°50'01
asc. node	9059 Dec 12 05:13	7° ∡ ¹27'16		asc. node	9060 Nov 28 02:13	23°M07'38	
morning max el	9059 Dec 15 18:51	10° ∡ °09′06	18°09'37		9060 Dec 03 14:29	0° ∡ ¹	
	9059 Dec 28 18:29	0°ප		morning set	9060 Dec 14 08:55	19° ∤ 19'50	
morning set	9059 Dec 31 11:35	5° る 04'09			9060 Dec 19 19:41	0°ප	
superior conj	9060 Jan 10 02:02	22° ප් 51'16		superior conj	9060 Dec 22 21:38	5°る54'52	
	9060 Jan 10 02:02 9060 Jan 10 04:52	22°පි51'16 23°පි04'04		minimum elong	9060 Dec 22 21:38 9060 Dec 23 00:54	5°854'52 6°810'22	1°07'43
superior conj minimum elong	9060 Jan 10 02:02 9060 Jan 10 04:52 9060 Jan 14 03:01	22°♂51'16 23°♂04'04 0°≈		minimum elong max. Earth dist.	9060 Dec 22 21:38	5°る54'52 6°る10'22 18°る56'09	
superior conj minimum elong desc. node	9060 Jan 10 02:02 9060 Jan 10 04:52 9060 Jan 14 03:01 9060 Jan 15 13:26	22°♂51'16 23°♂04'04 0°≈ 2°≈28'38	0°40'18	minimum elong max. Earth dist. desc. node	9060 Dec 22 21:38 9060 Dec 23 00:54 9060 Dec 29 23:59 9061 Jan 01 10:24	5°ට54'52 6°ට10'22 18°ට56'09 23°ට11'23	1°07'43
superior conj minimum elong desc. node max. Earth dist.	9060 Jan 10 02:02 9060 Jan 10 04:52 9060 Jan 14 03:01 9060 Jan 15 13:26 9060 Jan 17 17:15	22°♂51'16 23°♂04'04 0°≈		minimum elong max. Earth dist.	9060 Dec 22 21:38 9060 Dec 23 00:54 9060 Dec 29 23:59 9061 Jan 01 10:24 9061 Jan 02 22:32	5° ප්54'52 6° ප්10'22 18° ප්56'09 23° ප්11'23 25° ප්46'08	1°07'43
superior conj minimum elong desc. node	9060 Jan 10 02:02 9060 Jan 10 04:52 9060 Jan 14 03:01 9060 Jan 15 13:26 9060 Jan 17 17:15 9060 Jan 22 17:46	22°♂51'16 23°♂04'04 0°≈ 2°≈28'38 6°≈09'00 14°≈26'22	0°40'18	minimum elong max. Earth dist. desc. node	9060 Dec 22 21:38 9060 Dec 23 00:54 9060 Dec 29 23:59 9061 Jan 01 10:24 9061 Jan 02 22:32 9061 Jan 05 11:03	5°♂54'52 6°♂10'22 18°♂56'09 23°♂11'23 25°♂46'08 0°≈	1°07'43
superior conj minimum elong desc. node max. Earth dist.	9060 Jan 10 02:02 9060 Jan 10 04:52 9060 Jan 14 03:01 9060 Jan 15 13:26 9060 Jan 17 17:15	22°♂51'16 23°♂04'04 0°≈ 2°≈28'38 6°≈09'00 14°≈26'22 0°⊁	0°40'18	minimum elong max. Earth dist. desc. node	9060 Dec 22 21:38 9060 Dec 23 00:54 9060 Dec 29 23:59 9061 Jan 01 10:24 9061 Jan 02 22:32	5°♂54'52 6°♂10'22 18°♂56'09 23°♂11'23 25°♂46'08 0°≈ 0°⊁	1°07'43
superior conj minimum elong desc. node max. Earth dist.	9060 Jan 10 02:02 9060 Jan 10 04:52 9060 Jan 14 03:01 9060 Jan 15 13:26 9060 Jan 17 17:15 9060 Jan 22 17:46 9060 Feb 01 17:29 9060 Feb 24 02:38	22°♂51'16 23°♂04'04 0°≈ 2°≈28'38 6°≈09'00 14°≈26'22 0°升 0°°	0°40'18	minimum elong max. Earth dist. desc. node evening rise	9060 Dec 22 21:38 9060 Dec 23 00:54 9060 Dec 29 23:59 9061 Jan 01 10:24 9061 Jan 02 22:32 9061 Jan 05 11:03 9061 Jan 25 09:33 9061 Feb 07 01:27	5°る54'52 6°る10'22 18°る56'09 23°る11'23 25°る46'08 0°無 0°光 15°光12'06	1°07'43
superior conj minimum elong desc. node max. Earth dist.	9060 Jan 10 02:02 9060 Jan 10 04:52 9060 Jan 14 03:01 9060 Jan 15 13:26 9060 Jan 17 17:15 9060 Jan 22 17:46 9060 Feb 01 17:29	22°♂51'16 23°♂04'04 0°≈ 2°≈28'38 6°≈09'00 14°≈26'22 0°升 0°Ŷ	0°40'18	minimum elong max. Earth dist. desc. node evening rise	9060 Dec 22 21:38 9060 Dec 23 00:54 9060 Dec 29 23:59 9061 Jan 01 10:24 9061 Jan 02 22:32 9061 Jan 05 11:03 9061 Jan 25 09:33	5°る54'52 6°る10'22 18°る56'09 23°る11'23 25°る46'08 0°≈ 0°米 15°升12'06 21°升49'54	1°07'43 1.39371 AU
superior conj minimum elong desc. node max. Earth dist. evening rise	9060 Jan 10 02:02 9060 Jan 10 04:52 9060 Jan 14 03:01 9060 Jan 15 13:26 9060 Jan 17 17:15 9060 Jan 22 17:46 9060 Feb 01 17:29 9060 Feb 24 02:38	22°♂51'16 23°♂04'04 0°≈ 2°≈28'38 6°≈09'00 14°≈26'22 0°升 0°Υ 1°Υ25'07 7°Υ28'04	0°40'18 1.41508 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set	9060 Dec 22 21:38 9060 Dec 23 00:54 9060 Dec 29 23:59 9061 Jan 01 10:24 9061 Jan 02 22:32 9061 Jan 05 11:03 9061 Jan 25 09:33 9061 Feb 07 01:27	5°る54'52 6°る10'22 18°る56'09 23°る11'23 25°る46'08 0°≈ 0°米 15°米12'06 21°米49'54 19°米35'06	1°07'43 1.39371 AU
superior conj minimum elong desc. node max. Earth dist. evening rise	9060 Jan 10 02:02 9060 Jan 10 04:52 9060 Jan 14 03:01 9060 Jan 15 13:26 9060 Jan 17 17:15 9060 Jan 22 17:46 9060 Feb 01 17:29 9060 Feb 24 02:38 9060 Feb 25 11:27	22°♂51'16 23°♂04'04 0°≈ 2°≈28'38 6°≈09'00 14°≈26'22 0°升 0°Y 1°Y25'07 7°Y28'04 6°Y57'43	0°40'18 1.41508 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde	9060 Dec 22 21:38 9060 Dec 23 00:54 9060 Dec 29 23:59 9061 Jan 01 10:24 9061 Jan 05 11:03 9061 Jan 25 09:33 9061 Feb 07 01:27 9061 Feb 18 08:57	5°る54'52 6°る10'22 18°る56'09 23°る11'23 25°る46'08 0°≈ 0°米 15°升12'06 21°升49'54	1°07'43 1.39371 AU 24°17'34
superior conj minimum elong desc. node max. Earth dist. evening rise	9060 Jan 10 02:02 9060 Jan 10 04:52 9060 Jan 14 03:01 9060 Jan 15 13:26 9060 Jan 17 17:15 9060 Jan 22 17:46 9060 Feb 01 17:29 9060 Feb 24 02:38 9060 Feb 25 11:27 9060 Mar 06 16:34	22°♂51'16 23°♂04'04 0°≈ 2°≈28'38 6°≈09'00 14°≈26'22 0°भ 0°° 1°°¥25'07 7°°¥28'04 6°°¥57'43 5°°¥26'49	0°40'18 1.41508 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set	9060 Dec 22 21:38 9060 Dec 23 00:54 9060 Dec 29 23:59 9061 Jan 01 10:24 9061 Jan 02 22:32 9061 Jan 05 11:03 9061 Jan 25 09:33 9061 Feb 07 01:27 9061 Feb 18 08:57 9061 Feb 23 18:13 9061 Feb 24 01:10 9061 Feb 28 10:06	5° で54'52 6° で10'22 18° で56'09 23° で11'23 25° で46'08 0° ※ 0° ※ 15° ※ 12'06 21° ※ 49'54 19° ※ 35'06 19° ※ 19'57 14° ※ 14'30	1°07'43 1.39371 AU 24°17'34 0.68161 AU
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node	9060 Jan 10 02:02 9060 Jan 10 04:52 9060 Jan 14 03:01 9060 Jan 15 13:26 9060 Jan 17 17:15 9060 Jan 22 17:46 9060 Feb 01 17:29 9060 Feb 24 02:38 9060 Feb 25 11:27 9060 Mar 06 16:34 9060 Mar 09 04:02	22°♂51'16 23°♂04'04 0°≈ 2°≈28'38 6°≈09'00 14°≈26'22 0°升 0°Y 1°Y25'07 7°Y28'04 6°Y57'43	0°40'18 1.41508 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node	9060 Dec 22 21:38 9060 Dec 23 00:54 9060 Dec 29 23:59 9061 Jan 01 10:24 9061 Jan 02 22:32 9061 Jan 05 11:03 9061 Jan 25 09:33 9061 Feb 07 01:27 9061 Feb 18 08:57 9061 Feb 23 18:13 9061 Feb 24 01:10 9061 Feb 28 10:06 9061 Mar 01 06:21	5° で54'52 6° で10'22 18° で56'09 23° で11'23 25° で46'08 0° ※ 0° ※ 15° ※ 12'06 21° ※ 49'54 19° ※ 35'06 19° ※ 19'57	1°07'43 1.39371 AU 24°17'34
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node	9060 Jan 10 02:02 9060 Jan 10 04:52 9060 Jan 14 03:01 9060 Jan 15 13:26 9060 Jan 17 17:15 9060 Jan 22 17:46 9060 Feb 01 17:29 9060 Feb 24 02:38 9060 Feb 25 11:27 9060 Mar 06 16:34 9060 Mar 09 04:02 9060 Mar 11 13:37	22°♂51'16 23°♂04'04 0°≈ 2°≈28'38 6°≈09'00 14°≈26'22 0°भ 0°° 1°°¥25'07 7°°¥28'04 6°°¥57'43 5°°¥26'49	0°40'18 1.41508 AU 22°57'34	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist.	9060 Dec 22 21:38 9060 Dec 23 00:54 9060 Dec 29 23:59 9061 Jan 01 10:24 9061 Jan 02 22:32 9061 Jan 05 11:03 9061 Jan 25 09:33 9061 Feb 07 01:27 9061 Feb 18 08:57 9061 Feb 23 18:13 9061 Feb 24 01:10 9061 Feb 28 10:06	5° で54'52 6° で10'22 18° で56'09 23° で11'23 25° で46'08 0° ※ 0° ※ 15° ※ 12'06 21° ※ 49'54 19° ※ 35'06 19° ※ 19'57 14° ※ 14'30	1°07'43 1.39371 AU 24°17'34 0.68161 AU
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set	9060 Jan 10 02:02 9060 Jan 10 04:52 9060 Jan 14 03:01 9060 Jan 15 13:26 9060 Jan 17 17:15 9060 Jan 22 17:46 9060 Feb 01 17:29 9060 Feb 24 02:38 9060 Feb 25 11:27 9060 Mar 06 16:34 9060 Mar 09 04:02 9060 Mar 11 13:37 9060 Mar 16 05:40	22°♂51'16 23°♂04'04 0°≈ 2°≈28'38 6°≈09'00 14°≈26'22 0°भ 0°° 1°°25'07 7°°¥28'04 6°°¥57'43 5°°¥26'49 30°°€¥	0°40'18 1.41508 AU 22°57'34	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj	9060 Dec 22 21:38 9060 Dec 23 00:54 9060 Dec 29 23:59 9061 Jan 01 10:24 9061 Jan 02 22:32 9061 Jan 05 11:03 9061 Jan 25 09:33 9061 Feb 07 01:27 9061 Feb 18 08:57 9061 Feb 23 18:13 9061 Feb 24 01:10 9061 Feb 28 10:06 9061 Mar 01 06:21	5° 554'52 6° 510'22 18° 556'09 23° 511'23 25° 546'08 0° ※ 0° ※ 15° ※12'06 21° ※49'54 19° ※35'06 19° ※19'57 14° ※14'30 13° ※06'22	1°07'43 1.39371 AU 24°17'34 0.68161 AU 1°37'46
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superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set	9060 Jan 10 02:02 9060 Jan 10 04:52 9060 Jan 14 03:01 9060 Jan 15 13:26 9060 Jan 17 17:15 9060 Jan 22 17:46 9060 Feb 01 17:29 9060 Feb 24 02:38 9060 Feb 25 11:27 9060 Mar 06 16:34 9060 Mar 09 04:02 9060 Mar 11 13:37 9060 Mar 16 05:40 9060 Mar 16 22:32 9060 Mar 16 22:32 9060 Mar 16 20:18 9060 Mar 20 02:52 9060 Mar 26 13:34 9060 Apr 04 07:01 9060 Apr 07 19:26 9060 Apr 29 04:07 9060 May 05 19:22	22°♂51'16 23°♂04'04 0°≈ 2°≈28'38 6°≈09'00 14°≈26'22 0°¥ 0°° 1°°Y25'07 7°°Y28'04 6°°Y57'43 5°°Y26'49 30°°R¥ 29°¥01'43 29°¥09'27 29°¥31'35 22°¥53'57 21°¥05'12 26°¥08'30 0°°Y 5°°Y59'39 0°℧18'24	0°40'18 1.41508 AU 22°57'34 2°17'28 2°16'50 0.68484 AU 21°23'47	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 morning set max. Earth dist.	9060 Dec 22 21:38 9060 Dec 23 00:54 9060 Dec 29 23:59 9061 Jan 01 10:24 9061 Jan 02 22:32 9061 Jan 05 11:03 9061 Jan 25 09:33 9061 Feb 07 01:27 9061 Feb 18 08:57 9061 Feb 23 18:13 9061 Feb 24 01:10 9061 Feb 28 10:06 9061 Mar 01 06:21 9061 Mar 01 04:22 9061 Mar 06 14:35 9061 Mar 10 12:11 9061 Mar 10 12:11 9061 Mar 10 12:11 9061 Mar 30 10:21 9061 Apr 02 10:21 9061 Apr 14 19:42 9061 Apr 22 01:02 9061 Apr 24 22:35	5°\delta54'52 6°\delta10'22 18°\delta56'09 23°\delta11'23 25°\delta40'08 0°\delta 15°\delta12'06 21°\delta49'54 19°\delta35'06 19°\delta13'01 7°\delta05'13 5°\delta38'26 9°\delta58'18 25°\delta37'45 0°\delta 18°\delta43'28 0°\delta 4°\delta36'28	1°07'43 1.39371 AU 24°17'34 0.68161 AU 1°37'46 1°37'10 20°09'04 1.43993 AU -2°11'34
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set	9060 Jan 10 02:02 9060 Jan 10 04:52 9060 Jan 14 03:01 9060 Jan 15 13:26 9060 Jan 17 17:15 9060 Jan 22 17:46 9060 Feb 01 17:29 9060 Feb 24 02:38 9060 Feb 25 11:27 9060 Mar 06 16:34 9060 Mar 09 04:02 9060 Mar 11 13:37 9060 Mar 16 05:40 9060 Mar 16 22:32 9060 Mar 16 22:32 9060 Mar 16 20:18 9060 Mar 20 02:52 9060 Mar 26 13:34 9060 Apr 04 07:01 9060 Apr 07 19:26 9060 Apr 12 13:27 9060 May 05 19:22 9060 May 12 13:39	22°♂51'16 23°♂04'04 0°≈ 2°≈28'38 6°≈09'00 14°≈26'22 0°¥ 0°Y 1°Y25'07 7°Y28'04 6°Y57'43 5°Y26'49 30°R¥ 29°¥01'43 29°¥09'27 29°¥31'35 22°¥53'57 21°¥05'12 26°¥08'30 0°Y 5°Y59'39 0°℧18'24 21°℧12'09	0°40'18 1.41508 AU 22°57'34 2°17'28 2°16'50 0.68484 AU 21°23'47	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 morning set max. Earth dist. superior conj	9060 Dec 22 21:38 9060 Dec 23 00:54 9060 Dec 29 23:59 9061 Jan 01 10:24 9061 Jan 02 22:32 9061 Jan 05 11:03 9061 Jan 25 09:33 9061 Feb 07 01:27 9061 Feb 18 08:57 9061 Feb 23 18:13 9061 Feb 24 01:10 9061 Feb 28 10:06 9061 Mar 01 06:21 9061 Mar 01 04:22 9061 Mar 01 04:22 9061 Mar 10 12:11 9061 Mar 10 12:11 9061 Mar 10 12:11 9061 Apr 12 10:21 9061 Apr 02 10:21 9061 Apr 14 19:42 9061 Apr 22 01:02 9061 Apr 24 22:35	5°\delta54'52 6°\delta10'22 18°\delta56'09 23°\delta11'23 25°\delta40'08 0°\delta 15°\delta12'06 21°\delta49'54 19°\delta35'06 19°\delta14'30 13°\delta66'22 13°\delta13'01 7°\delta05'13 5°\delta38'26 9°\delta58'18 25°\delta37'45 0°\delta 13°\delta43'28 0°\delta 4°\delta36'28	1°07'43 1.39371 AU 24°17'34 0.68161 AU 1°37'46 1°37'10 20°09'04 1.43993 AU -2°11'34
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set	9060 Jan 10 02:02 9060 Jan 10 04:52 9060 Jan 14 03:01 9060 Jan 15 13:26 9060 Jan 17 17:15 9060 Jan 22 17:46 9060 Feb 01 17:29 9060 Feb 24 02:38 9060 Feb 25 11:27 9060 Mar 06 16:34 9060 Mar 09 04:02 9060 Mar 11 13:37 9060 Mar 16 05:40 9060 Mar 16 22:32 9060 Mar 16 22:32 9060 Mar 16 20:18 9060 Mar 20 02:52 9060 Mar 26 13:34 9060 Apr 04 07:01 9060 Apr 07 19:26 9060 Apr 12 13:27 9060 May 05 19:22 9060 May 12 13:39	22°♂51'16 23°♂04'04 0°≈ 2°≈28'38 6°≈09'00 14°≈26'22 0°¥ 0°Y 1°Y25'07 7°Y28'04 6°Y57'43 5°Y26'49 30°R¥ 29°¥01'43 29°¥09'27 29°¥31'35 22°¥53'57 21°¥05'12 26°¥08'30 0°Y 5°Y59'39 0°℧18'24 21°℧12'09	0°40'18 1.41508 AU 22°57'34 2°17'28 2°16'50 0.68484 AU 21°23'47	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 morning set max. Earth dist. superior conj	9060 Dec 22 21:38 9060 Dec 23 00:54 9060 Dec 29 23:59 9061 Jan 01 10:24 9061 Jan 02 22:32 9061 Jan 05 11:03 9061 Jan 25 09:33 9061 Feb 07 01:27 9061 Feb 18 08:57 9061 Feb 23 18:13 9061 Feb 24 01:10 9061 Feb 28 10:06 9061 Mar 01 06:21 9061 Mar 01 04:22 9061 Mar 01 04:22 9061 Mar 10 12:11 9061 Mar 10 12:11 9061 Mar 10 12:11 9061 Apr 02 10:21 9061 Apr 02 10:21 9061 Apr 22 01:02 9061 Apr 24 22:35	5°\delta54'52 6°\delta10'22 18°\delta56'09 23°\delta11'23 25°\delta6'08 0°\delta 15°\delta12'06 21°\delta49'54 19°\delta35'06 19°\delta14'30 13°\delta6'22 13°\delta13'01 7°\delta513 5°\delta38'26 9°\delta58'18 25°\delta37'45 0°\delta 13°\delta58'28 13°\delta58'20 14°\delta6'05	1°07'43 1.39371 AU 24°17'34 0.68161 AU 1°37'46 1°37'10 20°09'04 1.43993 AU -2°11'34
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	9060 Jan 10 02:02 9060 Jan 10 04:52 9060 Jan 14 03:01 9060 Jan 15 13:26 9060 Jan 17 17:15 9060 Jan 22 17:46 9060 Feb 01 17:29 9060 Feb 24 02:38 9060 Feb 25 11:27 9060 Mar 06 16:34 9060 Mar 09 04:02 9060 Mar 11 13:37 9060 Mar 16 05:40 9060 Mar 16 22:32 9060 Mar 16 20:18 9060 Mar 16 13:54 9060 Mar 22 02:52 9060 Mar 26 13:34 9060 Apr 04 07:01 9060 Apr 07 19:26 9060 Apr 12 13:27 9060 May 05 19:22 9060 May 17 19:58	22°♂51'16 23°♂04'04 0°≈ 2°≈28'38 6°≈09'00 14°≈26'22 0° ₭ 0° ♀ 1° ♀25'07 7° ♀28'04 6° ♀57'43 5° ♀26'49 30° ₹ ₭ 29° ₭01'43 29° ₭09'27 29° ₭31'35 22° ₭53'57 21° ₭05'12 26° ₭08'30 0° ♀ 10° ♂ 18'24 21° ♂ 12'09 0° Ⅱ	0°40'18 1.41508 AU 22°57'34 2°17'28 2°16'50 0.68484 AU 21°23'47 1.42250 AU -1°58'04	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 morning set max. Earth dist. superior conj minimum elong	9060 Dec 22 21:38 9060 Dec 23 00:54 9060 Dec 29 23:59 9061 Jan 01 10:24 9061 Jan 02 22:32 9061 Jan 05 11:03 9061 Jan 25 09:33 9061 Feb 07 01:27 9061 Feb 18 08:57 9061 Feb 23 18:13 9061 Feb 24 01:10 9061 Feb 28 10:06 9061 Mar 01 06:21 9061 Mar 01 04:22 9061 Mar 06 14:35 9061 Mar 10 12:11 9061 Mar 10 12:11 9061 Mar 10 12:11 9061 Mar 30 10:21 9061 Apr 02 10:21 9061 Apr 14 19:42 9061 Apr 22 01:02 9061 Apr 24 22:35	5°\dagsigned 56'\dagsigned 56'\dagsigned 56'\dagsigned 23°\dagsigned 11'23 25°\dagsigned 46'\dagsigned 60'\dagsigned 60'\dagsig	1°07'43 1.39371 AU 24°17'34 0.68161 AU 1°37'46 1°37'10 20°09'04 1.43993 AU -2°11'34
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	9060 Jan 10 02:02 9060 Jan 10 04:52 9060 Jan 14 03:01 9060 Jan 15 13:26 9060 Jan 17 17:15 9060 Jan 22 17:46 9060 Feb 01 17:29 9060 Feb 24 02:38 9060 Feb 25 11:27 9060 Mar 06 16:34 9060 Mar 09 04:02 9060 Mar 11 13:37 9060 Mar 16 05:40 9060 Mar 16 22:32 9060 Mar 16 20:18 9060 Mar 16 13:54 9060 Mar 22 02:52 9060 Mar 26 13:34 9060 Apr 04 07:01 9060 Apr 07 19:26 9060 Apr 29 04:07 9060 May 05 19:22 9060 May 17 19:58	22°♂51'16 23°♂04'04 0°≈ 2°≈28'38 6°≈09'00 14°≈26'22 0°¥ 0°° 1°°Y25'07 7°°Y28'04 6°°Y57'43 5°°Y26'49 30°R¥ 29°¥01'43 29°¥09'27 29°¥31'35 22°¥53'57 21°¥05'12 26°¥08'30 0°°Y 5°°Y59'39 0°Ы 10°Ы18'24 21°Ы12'09 0°П 3°П42'46	0°40'18 1.41508 AU 22°57'34 2°17'28 2°16'50 0.68484 AU 21°23'47 1.42250 AU -1°58'04	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 morning set max. Earth dist. superior conj minimum elong	9060 Dec 22 21:38 9060 Dec 23 00:54 9060 Dec 29 23:59 9061 Jan 01 10:24 9061 Jan 02 22:32 9061 Jan 05 11:03 9061 Jan 25 09:33 9061 Feb 07 01:27 9061 Feb 18 08:57 9061 Feb 23 18:13 9061 Feb 24 01:10 9061 Feb 28 10:06 9061 Mar 01 06:21 9061 Mar 01 04:22 9061 Mar 06 14:35 9061 Mar 10 12:11 9061 Mar 10 12:11 9061 Mar 10 12:11 9061 Mar 30 10:21 9061 Apr 02 10:21 9061 Apr 14 19:42 9061 Apr 22 01:02 9061 Apr 24 22:35 9061 Apr 30 17:24 9061 Apr 30 19:17 9061 May 10 06:45 9061 May 13 15:11	5°\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1°07'43 1.39371 AU 24°17'34 0.68161 AU 1°37'46 1°37'10 20°09'04 1.43993 AU -2°11'34

evening max el	9061 May 31 03:53	2° 5 47'00	18°06'58		9062 May 03 03:02	0°Щ	
retrograde	9061 Jun 06 13:40	6°907'25	18 00 38	asc. node	9062 May 09 20:55	10° Ⅱ 20'14	
evening set	9061 Jun 09 08:14	5°928'30			9062 May 14 16:55	10 П 2014 16° П 15'14	18°24'33
0			2042120	evening max el	•		18-24-33
inferior conj	9061 Jun 15 14:18	0°917'07		retrograde	9062 May 21 03:12	19° Ⅱ 43'03	
minimum elong	9061 Jun 15 16:55	0°5510'11	2°42'38	evening set	9062 May 24 05:13	18° ∏ 50′23	
	9061 Jun 15 20:46	30°RⅡ		inferior conj	9062 May 30 00:40	13° Ⅲ 21'22	
min. Earth dist.	9061 Jun 18 11:06	27° Ⅲ 16'52	0.62470 AU	minimum elong	9062 May 30 02:11	13° Ⅱ 16'55	3°10'44
morning rise	9061 Jun 21 23:48	24° Ⅱ 09'36		min. Earth dist.	9062 Jun 01 07:07	10° Ⅱ 42'19	0.64488 AU
desc. node	9061 Jun 26 10:00	21° Ⅱ 58'30		morning rise	9062 Jun 04 22:09	7° Ⅱ 05'04	
direct	9061 Jun 28 17:41	21° Ⅱ 41'24		direct	9062 Jun 11 14:05	4° Ⅱ 22'29	
morning max el	9061 Jul 12 19:44	29° Ⅱ 43'36	27°54'28	desc. node	9062 Jun 13 07:04	4° ∏ 32'04	
	9061 Jul 13 02:15	0		morning max el	9062 Jun 25 05:35	12° Ⅱ 21'14	27°25'52
	9061 Aug 03 19:10	$0 {\circ} \Omega$			9062 Jul 09 07:35	0 \circ ∞	
morning set	9061 Aug 15 20:43	22° Ω 27'28			9062 Jul 27 08:10	$0^{\circ}\Omega$	
asc. node	9061 Aug 18 23:19	28° Ω 53'29		morning set	9062 Jul 30 11:57	6° Ω 04'00	
	9061 Aug 19 11:55	0° m		max. Earth dist.	9062 Aug 04 04:37	15° Ω 32'16	1.33181 AU
max. Earth dist.	9061 Aug 21 06:19	3° Mp 46'32	1.32175 AU	asc. node	9062 Aug 05 20:15	18° Ω 59'07	
superior conj	9061 Aug 23 10:54	8° m 31'45	0°43'58	superior conj	9062 Aug 07 15:37	22° Ω 48'41	0°18'05
minimum elong	9061 Aug 23 09:03	8° Mp 21'41	0°43'30	minimum elong	9062 Aug 07 14:43	22° Ω 43'57	0°17'44
evening rise	9061 Aug 30 07:01	23° m 26'47			9062 Aug 10 23:59	0° m)	
8 21	9061 Sep 02 09:54	0∘ <u>⊽</u>		evening rise	9062 Aug 14 18:19	8° m) 04'02	
	9061 Sep 20 21:58	0° m .		evening rise	9062 Aug 26 05:31	0° ∿	
desc. node	9061 Sep 22 08:38	1°M34'36		evening max el	9062 Sep 05 07:09	13° ⊆ 12'02	22°24'55
evening max el	9061 Sep 23 19:12	3°M01'34	24°04'42	desc. node	9062 Sep 09 05:48	16° ⊆ 30'25	22 2433
•	9061 Oct 07 11:31	9°M52'30	24 04 42	retrograde	9062 Sep 18 06:19	19° ⊆ 39'48	
retrograde	9061 Oct 07 11:31 9061 Oct 12 07:41	9°M01'05		•	-	19° 2 15'12	
evening set			0.5(000 AII	evening set	9062 Sep 21 14:26		0.54051.411
min. Earth dist.	9061 Oct 18 05:51	6°M05'26	0.56089 AU	min. Earth dist.	9062 Sep 29 13:42	15° Ω 44'13	0.54951 AU
inferior conj	9061 Oct 20 12:53	4°M41'16		inferior conj	9062 Sep 30 12:34	15° £ 11'56	
minimum elong	9061 Oct 20 13:55	4°M39'41	5°38'13	minimum elong	9062 Sep 30 05:54	15° £ 21'21	5°1/'18
morning rise	9061 Oct 28 22:10	0°M43'06		morning rise	9062 Oct 08 23:08	11° ≏ 24'26	
direct	9061 Oct 31 15:09	0°M24'08		direct	9062 Oct 12 05:43	11° ≏ 00'17	
morning max el	9061 Nov 10 16:52	5°M09'32	19°52'46	morning max el	9062 Oct 23 20:59	16° ≏ 28'13	21°17'34
asc. node	9061 Nov 14 23:12	10°M00'29		asc. node	9062 Nov 01 20:10	27° ≏ 50'02	
	9061 Nov 26 14:48	0° ∡ ¹			9062 Nov 03 04:09	0° M	
morning set	9061 Nov 28 13:19	3° ≯ 53'54		morning set	9062 Nov 12 22:08	18° ™ 38'25	
					9062 Nov 18 07:57	0° ∡ ¹	
superior conj	9061 Dec 06 07:59	19° ∡ ³39'58	1°26'34				
minimum elong	9061 Dec 06 10:32	19° ∡ 52'35	1°26'35	superior conj	9062 Nov 20 04:53	3° х 54′22	1°37'17
	9061 Dec 11 15:46	0°ರ		minimum elong	9062 Nov 20 06:13	4° ≯ 01'14	1°37'26
max. Earth dist.	9061 Dec 12 06:17	1° る 08'14	1.37212 AU	max. Earth dist.	9062 Nov 24 16:42	13° ∡ 02'18	1.35252 AU
evening rise	9061 Dec 16 00:14	8° る 00'32		evening rise	9062 Nov 28 19:32	21° ∡ ¹00'58	
desc. node	9061 Dec 19 07:25	13° る 48'35			9062 Dec 03 17:35	0°₹	
	9061 Dec 29 06:25	0° ≈		desc. node	9062 Dec 06 04:27	4° る 15'38	
evening max el	9062 Jan 20 14:44	29° ≈ 00'49	25°31'59		9062 Dec 23 04:05	0° ≈	
	9062 Jan 21 15:32	0° ∀		evening max el	9063 Jan 03 04:00	12° ≈ 45'34	26°33'37
retrograde	9062 Feb 01 20:48	6°) €03'36		retrograde	9063 Jan 16 03:27	20°≈02'50	
evening set	9062 Feb 07 18:41	3°) €37'25		evening set	9063 Jan 22 13:14	17° ≈ 29'03	
asc. node	9062 Feb 10 22:18	0°) €21'44		min. Earth dist.	9063 Jan 26 15:41	13° ≈ 17'59	0.66334 AU
	9062 Feb 11 05:30	30° R ≈		inferior conj	9063 Jan 28 11:13	11° ≈ 07'51	-0°06'49
min. Earth dist.	9062 Feb 12 03:25	28°≈51'41	0.67439 AU	minimum elong	9063 Jan 28 11:24	11° ≈ 07'19	
inferior conj	9062 Feb 13 11:15	27°≈09'45	0°49'33	transit middle	9063 Jan 28 11:24	11° ≈ 07'19	0°06'32
minimum elong	9062 Feb 13 10:03	27°≈13'34	0°49'15	transit begin	9063 Jan 28 08:44	11°≈15'17	0 0032
morning rise	9062 Feb 19 01:50	21°≈17'02	0 47 13	transit end	9063 Jan 28 14:03	10°≈59'21	
direct	9062 Feb 22 11:28	21 ≈1702 20°≈10'36		asc. node	9063 Jan 28 19:25	10 ≈3921 10°≈43'21	
		20 ≈10 30 23°≈59'13	19°08'52		9063 Feb 03 10:30	5°≈25'41	
morning max el	9062 Mar 01 10:02 9062 Mar 06 12:53	23°≈39°13 0°) €	17 00 34	morning rise direct	9063 Feb 03 10:30 9063 Feb 06 09:37	3°≈25°41 4°≈36'36	
grantast builli		11°) 44'29	-0.7m			4 ≈30 30 8°≈06'38	18°24'49
greatest brilliancy	9062 Mar 14 17:11	11° X 44'29 15° X 39'50	-0. / 111	morning max el	9063 Feb 12 22:13		10 4449
desc. node	9062 Mar 17 07:15			dono 15 - 4 -	9063 Feb 28 09:46	0°) (5°¥50!24	
morning set	9062 Mar 24 21:37	27°) €21'38		desc. node	9063 Mar 04 04:09	5°) € 59'24	
pp111	9062 Mar 26 14:31	0° Υ	1 45100 177	morning set	9063 Mar 04 22:28	7°) €12'17	
max. Earth dist.	9062 Apr 07 14:13	18° Ƴ 41'52	1.45138 AU		9063 Mar 19 09:02	0 ° Υ	
	0000	00000	2005110		000000	2000	10.40:
superior conj	9062 Apr 10 11:33	23°Y15'23		superior conj	9063 Mar 20 17:13	2°Υ′06'00	
minimum elong	9062 Apr 10 06:22	22° Y 54'50	2°07'11	minimum elong	9063 Mar 20 07:40	1° Y ′28′36	
	9062 Apr 14 17:16	0°8		max. Earth dist.	9063 Mar 21 09:19	3° Y ′08'59	1.45567 AU
evening rise	9062 Apr 25 02:30	16° 8 51'12		evening rise	9063 Apr 05 14:17	26° Ƴ 59'57	

	9063 Apr 07 11:58	0° 8		superior conj	9064 Feb 28 04:58	11° ∺ 20′03	-1°03'33
greatest brilliancy	9063 Apr 15 11:50	12° 8 32'28	-0.8m	minimum elong	9064 Feb 27 21:46	10° ¥ 51′24	1°02'31
asc. node	9063 Apr 26 18:03	28° 8 22'37		max. Earth dist.	9064 Mar 03 04:44	17°) €38'53	1.45251 AU
evening max el	9063 Apr 28 03:05	29° 8 51'15	18°59'45		9064 Mar 11 02:51	0° Υ	
_	9063 Apr 28 06:35	0° I		evening rise	9064 Mar 15 07:22	6° Y 27'48	
retrograde	9063 May 04 22:34	3° ∏ 39'16		greatest brilliancy	9064 Mar 29 15:47	28° Y 12'17	-0.6m
evening set	9063 May 08 08:16	2°∏32'02 30°R ႘		·	9064 Mar 30 21:18	0°8	10051116
inferior conj	9063 May 11 04:40	26° 8 47'04	3°21'13	evening max el asc. node	9064 Apr 10 08:32 9064 Apr 12 15:11	13° 8 30'19 15° 8 34'32	19°51'16
minimum elong	9063 May 13 20:45 9063 May 13 20:59	26° 8 46'20	3°21'01	retrograde	9064 Apr 17 20:38	17° 8 49'09	
min. Earth dist.	9063 May 15 20:59	24° 8 42'44	0.66147 AU	evening set	9064 Apr 21 14:49	16° 8 26'52	
morning rise	9063 May 19 09:10	20° 8 27'54	0.0011,110	inferior conj	9064 Apr 26 23:23	10° 8 27'46	3°17'18
direct	9063 May 25 17:44	17° 8 42'25		minimum elong	9064 Apr 26 22:29	10° 8 30'47	3°17'05
desc. node	9063 May 31 04:05	19° 8 19'50		min. Earth dist.	9064 Apr 27 23:55	9° 8 05'26	0.67377 AU
morning max el	9063 Jun 07 16:19	25° 8 24'41	26°27'45	morning rise	9064 May 02 05:49	4° 8 09'26	
	9063 Jun 11 20:43	$\Pi^{\circ}0$		direct	9064 May 08 03:25	1° 8 31'37	
	9063 Jul 02 19:40	0 \circ \odot		desc. node	9064 May 17 01:03	5° 8 50'24	
morning set	9063 Jul 13 15:29	19° © 04'52		morning max el	9064 May 20 02:00	8° 8 41'28	25°09'21
max. Earth dist.	9063 Jul 17 16:27	26° © 51'18	1.34673 AU		9064 Jun 05 19:36	Π °0	
	9063 Jul 19 06:29	$0^{\circ}\Omega$			9064 Jun 24 09:26	0 \circ \odot	
				morning set	9064 Jun 25 02:59	1° © 18'12	
superior conj	9063 Jul 22 13:41	6° Ω 42'20		max. Earth dist.	9064 Jun 28 17:52	7° © 54'30	1.36598 AU
minimum elong	9063 Jul 22 14:21	6° Ω 45'43	0°11'32		00(4) 1 05 02 12	200505115	0042110
behind sun begin behind sun end	9063 Jul 22 10:13 9063 Jul 22 18:29	6° Ω 24'26 7° Ω 07'02		superior conj	9064 Jul 05 02:13 9064 Jul 05 04:54	20°©05'15 20°©18'28	
asc. node	9063 Jul 22 18.29 9063 Jul 23 17:13	9° Ω 04'41		minimum elong asc. node	9064 Jul 09 14:12	20 \$31828 29°\$06'11	0 43 03
evening rise	9063 Jul 30 03:29	22° Ω 31'34		asc. Houe	9064 Jul 10 00:49	29 3 00 11	
evening rise	9063 Aug 02 19:26	0°M)		evening rise	9064 Jul 13 08:16	6° Ω 42'54	
evening max el	9063 Aug 18 03:41	23° m 42'08	20°53'52	evening rise	9064 Jul 26 10:03	0° m	
desc. node	9063 Aug 27 02:57	29° m 10'09		evening max el	9064 Jul 30 13:38	4° m) 54'46	19°40'50
retrograde	9063 Aug 29 18:40	29° m 27'49		retrograde	9064 Aug 09 11:35	9° m) 48'48	
evening set	9063 Aug 31 23:52	29° m 16'05		evening set	9064 Aug 11 07:56	9° m 39'21	
inferior conj	9063 Sep 10 04:53	25° m 19'34	-4°02'54	desc. node	9064 Aug 13 00:04	9° Mp 15′27	
minimum elong	9063 Sep 09 19:15	25°M 33'16	4°00'08	inferior conj	9064 Aug 20 04:25	5°₩36′29	-2°12'02
min. Earth dist.	9063 Sep 10 22:26	24° m 54'36	0.54680 AU	minimum elong	9064 Aug 19 22:25	5° Mp 45'50	2°09'53
morning rise	9063 Sep 18 14:48	21°My22'57		min. Earth dist.	9064 Aug 22 09:57	4° Mp 13′02	0.55367 AU
direct	9063 Sep 22 13:34	20° m 49'30		morning rise	9064 Aug 28 10:42	1° Mp 11'35	
morning max el	9063 Oct 05 14:01	27° m 03'40	22°59'03	direct	9064 Sep 02 04:41	0°m/21'29	
	9063 Oct 08 10:43	0∘ ⊽		morning max el	9064 Sep 16 02:08	7° Mp 16'47	24°45'08
asc. node	9063 Oct 19 17:07	16° £ 23'06		1	9064 Oct 02 14:44	0° ⊽	
	9063 Oct 26 17:43	0°M.		asc. node	9064 Oct 05 14:03 9064 Oct 11 21:03	5° Ω 29'01	
morning set	9063 Oct 28 09:17	3°M27'23		morning set	9064 Oct 17 21:03 9064 Oct 17 06:24	18° ≏ 16'02 0° ™	
superior conj	9063 Nov 04 09:00	18°M28'17	1°40'53		9004 Oct 17 00.24	U IIG	
minimum elong	9063 Nov 04 09:03	18°M28'33	1°41'04	superior conj	9064 Oct 18 17:45	3°M13'57	1°38'07
max. Earth dist.	9063 Nov 07 10:37	24°M58'07	1.33656 AU	minimum elong	9064 Oct 18 16:42	3°M08'13	1°38'12
	9063 Nov 09 21:10	0° ∡ 7		max. Earth dist.	9064 Oct 20 12:37	7° M 07'45	1.32501 AU
evening rise	9063 Nov 12 04:40	4° ∡ ³37'59		evening rise	9064 Oct 26 00:10	18°M42'48	
desc. node	9063 Nov 23 01:31	24° ₹ 26'58			9064 Oct 31 18:21	0° ∡ ″	
	9063 Nov 26 11:15	0°ರ		desc. node	9064 Nov 08 22:34	14° ∡ 15'48	
evening max el	9063 Dec 16 16:56	26° る 17'15	27°15'11		9064 Nov 19 18:40	5°0	
	9063 Dec 21 01:54	0° ≈		evening max el	9064 Nov 28 04:13	9° පි 25'08	27°29'51
retrograde	9063 Dec 30 04:14	3° ≈ 39'00		retrograde	9064 Dec 11 22:15	16° る 43'32	
evening set	9064 Jan 05 23:40	1°≈03'45		evening set	9064 Dec 18 23:20	14° る 15'05	
	9064 Jan 07 06:28	30°₹₹	0.64054.433	min. Earth dist.	9064 Dec 22 16:40	11°る07'23	0.63107 AU
min. Earth dist.	9064 Jan 09 20:43		0.64874 AU	inferior conj	9064 Dec 25 10:38	8° る 25'05	
inferior conj	9064 Jan 12 03:55	24°る54'58 24°る49'06		minimum elong	9064 Dec 25 15:08	8° ට 13'58 3° ට 11'47	2-18-18
minimum elong asc. node	9064 Jan 12 06:03 9064 Jan 15 16:32	24° ろ 49'06 21° ろ 21'39	1°09'33	morning rise asc. node	9065 Jan 01 09:00 9065 Jan 01 13:35	3°る11'47 3°る07'47	
morning rise	9064 Jan 18 13:57	21 32 1 39		direct	9065 Jan 03 17:04	2°る45'57	
direct	9064 Jan 21 04:24	19 3 2330		morning max el	9065 Jan 10 07:58	6°る10'24	17°47'30
morning max el	9064 Jan 27 14:31	22° ප 12'49	17°57'29		9065 Jan 25 22:19	0°≈	55
	9064 Feb 02 17:49	0°≈	<u>-, -,</u>	morning set	9065 Jan 26 12:23	1°≈01'15	
morning set	9064 Feb 14 04:42	18° ≈ 29'54		desc. node	9065 Feb 04 21:56	17°≈10'12	
desc. node	9064 Feb 19 01:02	26° ≈ 30'47					
	9064 Feb 21 04:09	0°) €		superior conj	9065 Feb 07 13:48	21° ≈ 36'32	-0°19'33
				minimum elong	9065 Feb 07 11:46	21° ≈ 28′08	0°19'04

	9065 Feb 12 17:08	0°) €		max. Earth dist.	9066 Jan 27 12:19	15° ≈ 49'15	1.42634 AU
max. Earth dist.	9065 Feb 13 22:22		1.44239 AU	evening rise	9066 Feb 02 15:31	25°≈43'02	1.42034 AO
evening rise	9065 Feb 22 18:44	15° ¥ 50'05	1.44237710	evening rise	9066 Feb 05 09:08	0° ∺	
evening rise	9065 Mar 04 03:19	0°Υ			9066 Feb 26 00:43	0°Υ	
evening max el	9065 Mar 24 08:31	27°Υ10'55	20°56'35	evening max el	9066 Mar 07 03:21	10°Υ52'59	22°11'51
evening max er	9065 Mar 27 12:36	0°8	20 30 33	retrograde	9066 Mar 16 16:21	16° Υ 31'59	22 1131
asc. node	9065 Mar 30 12:18	1° 8 41'52		asc. node	9066 Mar 17 09:25	16° Y 29'27	
retrograde	9065 Apr 01 19:09	2° 8 08'10		evening set	9066 Mar 21 06:53	14° Υ 39'01	
evening set	9065 Apr 05 22:55	0° 8 30'30		inferior conj	9066 Mar 26 14:39	8° Υ 18'09	2°36'21
e venning see	9065 Apr 06 13:21	30°RY		minimum elong	9066 Mar 26 12:29	8° Υ 25'42	2°35'47
inferior conj	9065 Apr 11 06:03	24° Υ 19'14	3°01'50	min. Earth dist.	9066 Mar 26 12:54	8° Υ 24'15	0.68488 AU
minimum elong	9065 Apr 11 04:20	24° Υ 25'12	3°01'27	morning rise	9066 Mar 31 17:56	2° Υ 07'32	0.00400710
min. Earth dist.	9065 Apr 11 16:57	23° Y 41'31	0.68157 AU	direct	9066 Apr 05 12:36	0° Υ 06'03	
morning rise	9065 Apr 16 09:31	18° Υ 04'03	0.08137 AU	morning max el	9066 Apr 14 22:40	5° Υ 37'29	22°12'02
direct	9065 Apr 21 18:04	15° Υ 41'56		desc. node	9066 Apr 20 18:55	12° Υ 17'15	22 12 02
morning max el	9065 May 02 11:10	22° \begin{pmatrix} 41.30 \\ 22^{\circ}\begin{pmatrix}	23°40'53	desc. node	9066 May 03 15:28	0° 8	
desc. node		23° Y $36'30$	23 40 33	marning sat		22° 8 28'35	
desc. node	9065 May 03 22:00			morning set	9066 May 18 05:06	0° I I	
	9065 May 09 08:18	0° B		E 4 E 4	9066 May 22 18:55		1 41056 ATT
	9065 May 30 02:46	0°II		max. Earth dist.	9066 May 23 12:49	1° Ⅱ 15′00	1.41056 AU
morning set	9065 Jun 06 17:09	12° Ⅲ 30′01	1 20012 411		00// 1/ 21 07 21	1.40T 4112.4	1044125
max. Earth dist.	9065 Jun 10 14:08	19° Ⅱ 12'07	1.38812 AU	superior conj	9066 May 31 07:21	14° Ⅱ 41'34	
	9065 Jun 16 13:29	0_{\circ} වෙ		minimum elong	9066 May 31 13:23	15° Ⅱ 08'25	1°44'11
					9066 Jun 08 16:25	0	
superior conj	9065 Jun 18 01:35	2° © 48'27	-1°15'30	evening rise	9066 Jun 10 16:58	3°546'24	
minimum elong	9065 Jun 18 06:22	3° © 10'59	1°15'01	asc. node	9066 Jun 13 08:12	8° © 40'21	
asc. node	9065 Jun 26 11:11	18° © 59'29		evening max el	9066 Jun 26 19:02	29° 5 27'04	18°16'55
evening rise	9065 Jun 27 05:54	20°530'43			9066 Jun 27 08:55	$0 {\circ} \Omega$	
	9065 Jul 02 04:57	$0 {\circ} \Omega$		retrograde	9066 Jul 04 00:28	3° Ω 05′09	
evening max el	9065 Jul 13 11:56	16° Ω 52'07	18°48'32	evening set	9066 Jul 06 06:59	2° Ω 44'22	
retrograde	9065 Jul 21 20:17	21° Ω 00'54			9066 Jul 11 04:39	30° ₹ 5	
evening set	9065 Jul 23 19:47	20° Ω 47'48		inferior conj	9066 Jul 13 13:47	28° © 03'33	1°12'58
desc. node	9065 Jul 30 21:12	17° Ω 12'26		minimum elong	9066 Jul 13 16:04	27° © 58'42	1°11'56
inferior conj	9065 Jul 31 22:09	16° Ω 27'42	-0°19'04	min. Earth dist.	9066 Jul 16 22:55	25° © 12'35	0.58941 AU
minimum elong	9065 Jul 31 21:22	16° Ω 29'07	0°18'58	desc. node	9066 Jul 17 18:18	24° © 34'28	
min. Earth dist.	9065 Aug 04 01:24	14° Ω 12'18	0.56887 AU	morning rise	9066 Jul 20 21:54	22°528'05	
morning rise	9065 Aug 08 19:36	11° Ω 25'57		direct	9066 Jul 27 03:51	20°542'34	
direct	9065 Aug 14 09:25	10° Ω 10'47		morning max el	9066 Aug 10 12:57	28° © 29'25	27°25'20
morning max el	9065 Aug 28 16:17	17° Ω 36'31	26°19'06	Z .	9066 Aug 12 00:37	$0^{\circ}\Omega$	
	9065 Sep 07 22:55	0° m/			9066 Sep 01 17:38	0° m ⁄	
asc. node	9065 Sep 22 10:57	24° m 58'26		asc. node	9066 Sep 09 07:53	14° m)44'49	
use. Houe	9065 Sep 24 21:51	0ಂ ರ		morning set	9066 Sep 10 15:40	17° m) 30'33	
morning set	9065 Sep 26 07:43	o — 2° Ω 58'35		morning sec	9066 Sep 16 09:50	0∘ ಹ	
morning set	7003 Бер 20 07.43	2 -3033			2000 Sep 10 02.50	٥ –	
superior conj	9065 Oct 03 04:56	18° ഫ 03'29	1°29'36	superior conj	9066 Sep 17 16:43	2° £ 51'21	1°15'45
minimum elong	9065 Oct 03 03:06	17° ⊆ 53'19	1°29'29	minimum elong	9066 Sep 17 14:30	2° <u>0</u> 39'02	1°15'26
max. Earth dist.	9065 Oct 03 20:22	17 — 33 17 19° — 29'00	1.31809 AU	max. Earth dist.	9066 Sep 17 06:26	1° £ 54'16	1.31582 AU
max. Lartii dist.	9065 Oct 08 15:55	0° M .	1.51007 AC	evening rise	9066 Sep 24 10:52	17° ≏ 41'02	1.51502 AC
evening rise	9065 Oct 10 03:01	3°M06'04		evening rise	9066 Sep 30 11:48	0°M	
evening rise	9065 Oct 24 13:41	0° ⊼ 1		desc. node	9066 Oct 13 16:47	22°M02'50	
dasa mada	9065 Oct 26 19:39	3° ∡ ¹32'02		desc. node	9066 Oct 19 23:59	22 11 c 02 30 0° √	
desc. node			27012110				26920141
evening max el	9065 Nov 10 11:15	21° 🖈 54'52	2/12/18	evening max el	9066 Oct 23 11:16	3°×735'21	26°20'41
retrograde	9065 Nov 24 08:16	29° 🗷 06'23		retrograde	9066 Nov 06 09:12	10°×740'31	
evening set	9065 Dec 01 08:39	26° 🖈 54'28	0.61106.177	evening set	9066 Nov 12 23:14	8° 🖈 55'01	0.500000 177
min. Earth dist.	9065 Dec 05 01:57	24° ₹ 09'41	0.61106 AU	min. Earth dist.	9066 Nov 17 00:28	6° ∡ 720′29	0.59009 AU
inferior conj	9065 Dec 08 04:06	21° ₹ 28'49		inferior conj	9066 Nov 20 04:47	3° ∡ 756'31	
minimum elong	9065 Dec 08 10:49	21° ₹ 14'11	3°29'38	minimum elong	9066 Nov 20 12:16	3° ∡ ¹42′20	4°36'40
morning rise	9065 Dec 15 15:22	16° ₹ 34'47			9066 Nov 26 10:11	30°RM₁	
direct	9065 Dec 17 20:05	16° ∡ 14'59		morning rise	9066 Nov 28 03:42	29°M24'50	
asc. node	9065 Dec 19 10:37	16° ≯ 25'58		direct	9066 Nov 30 09:00	29°M07'50	
morning max el	9065 Dec 24 23:15	19° ∡ ⁴49'59	17°55'54		9066 Dec 04 03:42	0° ∡	
	9066 Jan 01 11:18	0°ಕ		asc. node	9066 Dec 06 07:39	1° ∡ 17'33	
morning set	9066 Jan 09 14:52	14° る 25'29		morning max el	9066 Dec 08 08:55	3° х 02′24	18°24'09
	9066 Jan 18 05:45	0° ≈		morning set	9066 Dec 24 06:33	28° ≯ 25'55	
					9066 Dec 25 02:12	0°₹	
superior conj	9066 Jan 20 00:04	3° ≈ 05'31	0°20'44				
minimum elong	9066 Jan 20 01:49	3° ≈ 13′08	0°20'42	superior conj	9067 Jan 02 08:58	15° る 38'53	0°53'11
desc. node	9066 Jan 22 18:50	7° ≈ 53'27		minimum elong	9067 Jan 02 12:11	15° る 53'41	0°53'00

desc. node	9067 Jan 09 15:46	28° る 37'17		max. Earth dist.	9067 Dec 23 03:21	11° る 32'08	1.38435 AU
max. Earth dist.	9067 Jan 09 13:40 9067 Jan 09 21:32	28 3 3717 29° る 02'02	1.40619 AU	evening rise	9067 Dec 26 21:36	11 3 3208	1.30433 AU
max. Latin dist.	9067 Jan 10 11:03	0°≈	1.40017 AU	desc. node	9067 Dec 27 12:46	18 3 1233	
evening rise	9067 Jan 14 07:36	6° ≈ 28'37		dese. Hode	9068 Jan 02 22:39	0° ≈	
evening rise	9067 Jan 29 12:14	0° ∀			9068 Jan 23 20:08	0° ₩	
evening max el	9067 Feb 17 18:24	24° ¥ 37'11	23°31'52	evening max el	9068 Jan 31 07:45	8°) 24'44	24°50'18
* · · · · · · · · · · · · · · · · · · ·	9067 Feb 24 17:56	0°Υ		retrograde	9068 Feb 12 01:36	15° ¥ 15'18	
retrograde	9067 Feb 28 10:52	0° Y 55'52		evening set	9068 Feb 17 16:14	12° ¥ 55′06	
, and the second	9067 Mar 03 20:36	30° ₹		asc. node	9068 Feb 19 03:41	11° ¥ 30′26	
asc. node	9067 Mar 04 06:34	29° ¥ 45′08		min. Earth dist.	9068 Feb 22 04:51	7° ¥ 49'20	0.67896 AU
evening set	9067 Mar 05 13:10	28°) 48′22		inferior conj	9068 Feb 23 06:05	6° ¥ 25'55	1°18'20
inferior conj	9067 Mar 10 23:16	22°) €21'11	2°01'41	minimum elong	9068 Feb 23 04:22	6° 米 31'35	1°17'50
minimum elong	9067 Mar 10 21:05	22° ∺ 28'40	2°01'02	morning rise	9068 Feb 28 16:44	0° ¥ 28′10	
min. Earth dist.	9067 Mar 10 09:34	23° ∺ 08′08	0.68394 AU		9068 Feb 29 10:28	30° R ≈	
morning rise	9067 Mar 16 04:59	16°) (16′19		direct	9068 Mar 03 08:59	29° ≈ 10'33	
direct	9067 Mar 20 09:58	14°)(37'11			9068 Mar 06 11:17	0°)	
morning max el	9067 Mar 28 15:58	19° ∺ 20'30	20°50'30	morning max el	9068 Mar 10 17:02	3° ¥ 15'55	19°41'35
	9067 Apr 06 11:20	0° Υ		greatest brilliancy	9068 Mar 23 10:53	19° ∺ 51'25	-0.6m
desc. node	9067 Apr 07 15:48	1° Υ 37'18		desc. node	9068 Mar 24 12:42	21° ¥ 26′28	
	9067 Apr 26 19:16	0° 8			9068 Mar 30 05:36	0° Υ	
morning set	9067 Apr 27 15:09	1° 8 17'22		morning set	9068 Apr 05 13:00	9° Ƴ 38'50	
max. Earth dist.	9067 May 05 17:50	14° 8 11'08	1.43048 AU	max. Earth dist.	9068 Apr 17 05:26	27° Y 53′05	1.44556 AU
					9068 Apr 18 13:24	$_{0\circ}$ 8	
superior conj	9067 May 12 14:49	25° 8 33'19			00.00 4 01 01 40	501 201110	0010110
minimum elong	9067 May 12 19:26	25° 8 52'47	2°05'35	superior conj	9068 Apr 21 21:43	5° 8 21'40	
	9067 May 15 05:35	0°П 160П10120		minimum elong	9068 Apr 21 20:47	5° 8 17'51	2°12'22
evening rise	9067 May 24 13:04	16° Ⅱ 18'30 28° Ⅱ 02'52		evening rise	9068 May 05 13:30	27° 8 57'07 0° Ⅱ	
asc. node	9067 May 31 05:16	28°Щ02′32 0° ©		aga mada	9068 May 06 18:34	17° Ⅱ 00'48	
avanina may al	9067 Jun 01 08:56 9067 Jun 10 07:03	12° © 29'06	18°05'07	asc. node	9068 May 17 02:21	17 Ⅲ 0048 25° Ⅱ 49'49	18°12'14
evening max el retrograde	9067 Jun 16 21:06	12 3 29 00	18 03 07	evening max el retrograde	9068 May 23 20:35 9068 May 30 05:37	23 H 4949 29° H 11'56	16 12 14
evening set	9067 Jun 19 11:13	15°\$32'00		evening set	9068 Jun 02 03:14	29 H 11 30 28° H 27'29	
inferior conj	9067 Jun 26 01:11	10° © 19'49	2°17'43	inferior conj	9068 Jun 08 04:20	28 H2729 23°H08'35	2°57'35
minimum elong	9067 Jun 26 04:07	10° © 12'35	2°16'40	minimum elong	9068 Jun 08 06:32	23° I I02'28	2°56'57
min. Earth dist.	9067 Jun 29 04:34	7° © 16'05	0.61193 AU	min. Earth dist.	9068 Jun 10 19:24	20° I 14'56	0.63363 AU
morning rise	9067 Jul 02 18:36	4°920'37	0.011/3/10	morning rise	9068 Jun 14 08:22	16° Ⅲ 56'12	0.03303710
desc. node	9067 Jul 04 15:24	3° © 15'28		desc. node	9068 Jun 20 12:28	14° I I21'14	
direct	9067 Jul 09 10:09	2° © 05'53		direct	9068 Jun 21 02:12	14° Ⅲ 20′10	
morning max el	9067 Jul 23 16:27		27°54'53	morning max el	9068 Jul 05 00:39	22° I I23'16	27°46'20
5 5	9067 Aug 08 03:29	$0^{\circ}\Omega$			9068 Jul 11 17:15	0ංම	
	9067 Aug 24 22:14	0° m)			9068 Jul 31 08:49	$0^{\circ}\Omega$	
morning set	9067 Aug 25 18:59	1°Mp46'17		morning set	9068 Aug 08 15:25	15° Ω 39'20	
asc. node	9067 Aug 27 04:48	4° m/42'13		asc. node	9068 Aug 13 01:45	24° Ω 46′05	
max. Earth dist.	9067 Aug 31 14:53	14° m) 11'52	1.31820 AU	max. Earth dist.	9068 Aug 13 17:43	26° Ω 10′30	1.32537 AU
					9068 Aug 15 12:40	0° m)	
superior conj	9067 Sep 02 03:17	17° m 31'46	0°56'56				
minimum elong	9067 Sep 02 01:09	17° m 20'01	0°56'28	superior conj	9068 Aug 16 10:45	1° m 59'05	0°33'30
	9067 Sep 07 19:22	0∘ ⊽		minimum elong	9068 Aug 16 09:15	1° Mp 50'56	0°33'03
evening rise	9067 Sep 08 21:33	2° ≏ 21'17		evening rise	9068 Aug 23 09:09	17° m 01'06	
	9067 Sep 23 16:02	0° M			9068 Aug 29 17:55	0∘ ⊽	
desc. node	9067 Sep 30 13:56	9° ™ 30'23		evening max el	9068 Sep 15 14:14	24° ≏ 41'13	23°22'08
evening max el	9067 Oct 05 03:04	14°M25'11	24°59'47	desc. node	9068 Sep 16 11:06	25° ≙ 30'18	
retrograde	9067 Oct 18 23:35	21°M23'53			9068 Sep 22 23:00	0°M	
evening set	9067 Oct 24 14:29	20°M12'26	0.57020 444	retrograde	9068 Sep 29 01:31	1°M24'55	
min. Earth dist.	9067 Oct 29 14:34	17°M29'50		evening set	9068 Oct 03 06:00	0°M46'41	
inferior conj minimum elong	9067 Nov 01 09:44 9067 Nov 01 14:27	15°M39'28 15°M31'41		min. Earth dist.	9068 Oct 05 09:38 9068 Oct 09 23:59	30° RΩ 27° Ω 37'33	0.55507 AU
•			3 23 38				
morning rise direct	9067 Nov 09 16:43 9067 Nov 12 03:36	11°M30'31 11°M13'20		inferior conj minimum elong	9068 Oct 11 18:49 9068 Oct 11 16:29	26° ♀ 34'38 26° ♀ 38'04	
morning max el	9067 Nov 21 09:16	15°M37'26	19°14'00	morning rise	9068 Oct 11 16.29 9068 Oct 20 04:58	20 ≥ 38 04 22° ♀ 42'37	J JU J '1
asc. node	9067 Nov 23 04:39	17°M30'44	17 1-100	direct	9068 Oct 23 03:04	22° £ 21'58	
ase. node	9067 Dec 01 14:03	0° √		morning max el	9068 Nov 02 21:06	22 = 21 38 27° £ 25'15	20°26'18
morning set	9067 Dec 08 07:16	12° ∡ 50'32		org max or	9068 Nov 05 08:21	0°M	20 20 10
B	•• • • • • • • • • • • • • • •	7. 5052		asc. node	9068 Nov 09 01:38	4°M49'27	
superior conj	9067 Dec 16 11:30	29° х °02′19	1°16'49	morning set	9068 Nov 21 13:50	27°M29'36	
minimum elong	9067 Dec 16 14:33			Č	9068 Nov 22 19:03	0° ∡ ¹	
S	9067 Dec 16 23:26	8°0					

superior conj	9068 Nov 29 02:48	13° ∡ '01'10	1°32'01	morning set	9069 Nov 05 23:54	12°M16'52	
minimum elong	9068 Nov 29 04:51	13° x 01 10	1°32'06	morning set	7007 NOV 03 23.34	12 1101032	
max. Earth dist.	9068 Dec 04 10:26	23° × 32'09	1.36339 AU	superior conj	9069 Nov 13 03:07	27° M 24'55	1°39'36
max. Dartii dist.	9068 Dec 07 20:50	0°る	1.50557 110	minimum elong	9069 Nov 13 03:54	27°M29'00	1°39'48
evening rise	9068 Dec 08 07:17	。。 0° ろ 48'00		minimum ciong	9069 Nov 14 08:43	0° √	1 37 10
desc. node	9068 Dec 13 09:47	9°る51'42		max. Earth dist.	9069 Nov 16 23:59	5° ∡ 725'53	1.34531 AU
dese. Hode	9068 Dec 26 02:17	0°≈		evening rise	9069 Nov 21 08:59	14° ₹ 05'35	1.54551 710
evening max el	9069 Jan 12 21:00	22°≈12'36	26°00'14	desc. node	9069 Nov 30 06:49	0°る12'53	
retrograde	9069 Jan 25 11:29	29°≈23'23	20 00 14	dese. Hode	9069 Nov 30 03:47	0°る	
evening set	9069 Jan 31 14:25	26°≈53'34			9069 Dec 20 22:13	0°≈	
min. Earth dist.	9069 Feb 04 20:24	20 ≈33 34 22°≈22'22	0.67011 AU	evening max el	9069 Dec 26 10:29	0 ≈ 5°≈53'45	26°54'09
asc. node	9069 Feb 05 00:49	22°≈08'47	0.07011 AU	retrograde	9070 Jan 08 15:35	3 ≈33 43 13°≈13'15	20 34 09
			0°26'37	•			
inferior conj	9069 Feb 06 09:09	20°≈27'41		evening set	9070 Jan 15 05:45	10°≈38'22	0.65761 ATT
minimum elong	9069 Feb 06 08:28	20°≈29'50	0°26'32	min. Earth dist.	9070 Jan 19 05:56	6°≈41'28	0.65761 AU
morning rise	9069 Feb 12 03:09	14°≈38'56		inferior conj	9070 Jan 21 06:20	4°≈21'44	
direct	9069 Feb 15 08:03	13°≈40'20	10040101	minimum elong	9070 Jan 21 07:17	4°≈19'01	0°32'26
morning max el	9069 Feb 22 01:33	17°≈19'56	18°48'01	asc. node	9070 Jan 22 21:55	2°≈29'59	
	9069 Mar 03 19:32	0° ∀			9070 Jan 25 12:17	30°Rる	
desc. node	9069 Mar 11 09:35	11° ¥ 36′25		morning rise	9070 Jan 27 09:56	28° る 44'29	
morning set	9069 Mar 15 22:44	18°) 42′08		direct	9070 Jan 30 05:11	28° る 01'31	
	9069 Mar 23 04:15	0° Υ			9070 Feb 04 00:29	0° ≈	
max. Earth dist.	9069 Mar 30 22:21	12° Y ′07'34	1.45413 AU	morning max el	9070 Feb 05 15:43	1° ≈ 26'59	18°11'00
				morning set	9070 Feb 24 12:07	29° ≈ 10′09	
superior conj	9069 Apr 01 08:38	14° Y °22′00			9070 Feb 25 00:26	0° ∀	
minimum elong	9069 Apr 01 00:49	13° Ƴ 51′22	1°58'50	desc. node	9070 Feb 26 06:26	2° ₩ 01'15	
	9069 Apr 11 05:50	9° 8					
evening rise	9069 Apr 16 14:35	8° 8 36'30		superior conj	9070 Mar 11 14:24	23° ∺ 15'31	-1°27'24
greatest brilliancy	9069 Apr 22 21:51	18° 8 46'16	-0.9m	minimum elong	9070 Mar 11 05:08	22° ∺ 39'04	1°26'21
	9069 Apr 30 02:21	$\Pi^{\circ}0$		max. Earth dist.	9070 Mar 13 18:12	26° ∺ 38'41	1.45531 AU
asc. node	9069 May 03 23:26	5° Ⅲ 26′04			9070 Mar 15 21:41	0° Y	
evening max el	9069 May 07 08:41	9° Ⅱ 21'54	18°37'31	evening rise	9070 Mar 27 17:15	18° Ƴ 24'12	
retrograde	9069 May 13 21:52	12° Ⅱ 56'37			9070 Apr 04 04:37	$_{0\circ}$ 8	
evening set	9069 May 17 03:06	11° Ⅱ 57'52		greatest brilliancy	9070 Apr 08 16:56	6° 8 54'15	-0.7m
inferior conj	9069 May 22 19:13	6° Ⅲ 22′08	3°17'19	evening max el	9070 Apr 20 17:03	22° 8 59'32	19°19'51
minimum elong	9069 May 22 20:10	6° Ⅱ 19'12	3°17'00	asc. node	9070 Apr 20 20:33	23° 8 08'18	
min. Earth dist.	9069 May 24 19:16	3° Ⅱ 56′23	0.65246 AU	retrograde	9070 Apr 27 18:35	26° 8 59'02	
morning rise	9069 May 28 12:28	0°耳04'13		evening set	9070 May 01 07:54	25° 8 45'16	
C	9069 May 28 14:27	30°R₩		inferior conj	9070 May 06 18:22	19° 8 54'05	3°21'07
direct	9069 Jun 04 02:00	27° 8 18'40		minimum elong	9070 May 06 18:05	19° 8 55'01	3°20'54
desc. node	9069 Jun 07 09:29	27° 8 54'57		min. Earth dist.	9070 May 08 03:09	18° 8 07'16	0.66730 AU
	9069 Jun 11 09:12	0° I I		morning rise	9070 May 12 03:53	13° 8 35'13	
morning max el	9069 Jun 17 10:54	5° Ⅱ 12'12	27°04'12	direct	9070 May 18 08:13	10° 8 51'57	
	9069 Jul 06 08:22	0°9		desc. node	9070 May 25 06:28	13° 8 29'47	
morning set	9069 Jul 23 02:08	29° © 01'51		morning max el	9070 May 30 21:07	18° 8 21'29	25°56'19
	9069 Jul 23 14:10	0°N			9070 Jun 09 16:21	0°II	
max. Earth dist.	9069 Jul 27 11:33	7° Ω 43'23	1.33751 AU		9070 Jun 29 08:53	0°©	
asc. node	9069 Jul 30 22:42	14° Ω 52'14	1.55751110	morning set	9070 Jul 05 23:21	11°5643'08	
use. Houe	7007 Jul 30 22.12	11 005211		max. Earth dist.	9070 Jul 09 18:44	18°953'13	1.35447 AU
superior conj	9069 Jul 31 13:00	16° Ω 07'15	0°05'59	man. Darun dist.	, o, o bui o, 10	10 200 10	1.50 11, 110
minimum elong	9069 Jul 31 12:42	16° Ω 05'39	0°05'43	superior conj	9070 Jul 15 07:22	29°5648'23	-0°24'46
behind sun begin	9069 Jul 31 07:24	15° Ω 37'50	0 03 43	minimum elong	9070 Jul 15 08:50	29°955'49	
behind sun end	9069 Jul 31 17:59	16° Ω 33'30		minimum clong	9070 Jul 15 09:40	0°Ω	0 24 43
bennia san ena	9069 Aug 07 01:48	0°m)		asc. node	9070 Jul 17 19:39	4° Ω 56'11	
ovenina rice	9069 Aug 07 19:48	1° Mp 34'57		evening rise	9070 Jul 23 03:22	15° Ω 56'05	
evening rise	•	0° ⊽		evening rise	9070 Jul 30 07:36	0° m)	
avanina may al	9069 Aug 23 20:59	0 2 4° 2 57'07	21944122	avanina may al			20°20'19
evening max el	9069 Aug 28 05:07		21 44 32	evening max el	9070 Aug 10 07:06	15° Mp 43'03	20 20 19
desc. node	9069 Sep 03 08:16	9° ₾ 32'28		retrograde	9070 Aug 21 04:36	21° My 06'48	
retrograde	9069 Sep 09 16:12	11° ♀ 08'23		desc. node	9070 Aug 21 05:26	21° Mp 06'48	
evening set	9069 Sep 12 10:51	10° £ 51′00	40.5012.6	evening set	9070 Aug 23 04:16	20° m 56'49	2010114
inferior conj	9069 Sep 21 13:50	6° £ 52'35		inferior conj	9070 Sep 01 07:20	16° Mp 59'05	
minimum elong	9069 Sep 21 04:59	7° ♀ 04'58		minimum elong	9070 Aug 31 22:39	17° m) 11'47	
min. Earth dist.	9069 Sep 21 08:02	7° ♀ 00'42	0.54720 AU	min. Earth dist.	9070 Sep 02 17:20	16° Mp 09'21	0.54860 AU
morning rise	9069 Sep 30 00:16	3° 2 03'41		morning rise	9070 Sep 09 16:18	12° M 52'51	
direct	9069 Oct 03 13:39	2° ₽ 36'00	21050105	direct	9070 Sep 13 23:06	12° m 13'23	2204425
morning max el	9069 Oct 15 19:54	8° Ω 23'57	21~59'06	morning max el	9070 Sep 27 09:44	18° m 45'15	23~44'35
asc. node	9069 Oct 26 22:35	22° ₽ 59'15		Ā	9070 Oct 06 16:51	0° 亞	
	9069 Oct 30 21:03	0° M		asc. node	9070 Oct 13 19:31	11° ≏ 47'03	

morning set	9070 Oct 21 11:31	27° ჲ 06'03			9071 Sep 30 03:25	0∘ ⊽	
morning sec	9070 Oct 22 20:03	0°M		asc. node	9071 Sep 30 16:26	1° ≏ 03'19	
		•		morning set	9071 Oct 05 23:01	11° Ω 52'17	
superior conj	9070 Oct 28 09:28	12°ML04'09	1°40'26	. <i>8</i>			
minimum elong	9070 Oct 28 09:02	12°ML01'45	1°40'36	superior conj	9071 Oct 12 19:29	26° £ 51'40	1°35'10
max. Earth dist.	9070 Oct 30 21:45	17°M27'51	1.33114 AU	minimum elong	9071 Oct 12 18:04	26° ≏ 43'50	1°35'11
evening rise	9070 Nov 04 22:53	27°M54'57		max. Earth dist.	9071 Oct 14 02:31	29° ≏ 42'16	1.32145 AU
	9070 Nov 05 24:00	0° ∡ ¹			9071 Oct 14 05:45	0° M	
desc. node	9070 Nov 17 03:54	20° х 15′33		evening rise	9071 Oct 19 21:48	12°ML07'39	
	9070 Nov 23 09:06	ರ°0			9071 Oct 29 04:17	0° ∡ ¹	
evening max el	9070 Dec 08 23:01	19° る 16'49	27°24'59	desc. node	9071 Nov 04 01:00	9° ∡ 751'37	
retrograde	9070 Dec 22 13:18	26° る 37'03			9071 Nov 19 04:49	8°0	
evening set	9070 Dec 29 11:57	24° る 03'35		evening max el	9071 Nov 21 08:36	2° る 08'53	27°26'28
min. Earth dist.	9071 Jan 02 07:11	20° る 39'24	0.64165 AU	retrograde	9071 Dec 05 04:07	9° පි 25'01	
inferior conj	9071 Jan 04 19:09	18° ප 02'21	-1°39'39	evening set	9071 Dec 12 06:01	7° る 01'57	
minimum elong	9071 Jan 04 22:15	17° る 54'11	1°38'07	min. Earth dist.	9071 Dec 15 22:30	4°る05'32	0.62277 AU
asc. node	9071 Jan 09 18:59	13° る 32'09		inferior conj	9071 Dec 18 20:37	1° る 21'49	
morning rise	9071 Jan 11 10:17	12° る 39'35		minimum elong	9071 Dec 19 02:09	1° る 08'53	2°48'34
direct	9071 Jan 13 21:50	12° る 08'33			9071 Dec 20 08:14	30°Ŗ ⋌	
morning max el	9071 Jan 20 08:53	15° る 30'21	17°51'03	morning rise	9071 Dec 26 00:33	26° ∡ 16'42	
	9071 Jan 30 16:38	0° ≈		asc. node	9071 Dec 27 16:03	25° ∡ 55'37	
morning set	9071 Feb 06 05:59	11° ≈ 01'46		direct	9071 Dec 28 06:46	25° ∡ 53'54	
desc. node	9071 Feb 13 03:19	22° ≈ 36′29		morning max el	9072 Jan 04 01:54	29° ∡ ¹21'34	17°48'49
	9071 Feb 17 15:14	0° ∀			9072 Jan 04 16:57	0°ප	
				morning set	9072 Jan 19 22:26	23° る 57'41	
superior conj	9071 Feb 19 09:54	2° ∺ 52'55			9072 Jan 23 08:02	0° ≈	
minimum elong	9071 Feb 19 04:53	2° ∺ 32'39	0°44'00				
max. Earth dist.	9071 Feb 24 13:41	11° ∺ 07'36	1.44904 AU	superior conj	9072 Jan 31 05:40	13° ≈ 40'55	-0°01'42
evening rise	9071 Mar 07 06:05	27°) 45′20		minimum elong	9072 Jan 31 05:31	13° ≈ 40′18	0°01'27
	9071 Mar 08 17:14	0° Y		behind sun begin	9072 Jan 30 20:43	13° ≈ 03′00	
	9071 Mar 29 05:16	0°8		behind sun end	9072 Jan 31 14:20	14° ≈ 17'30	
evening max el	9071 Apr 03 20:12	6° 8 39'18	20°17'32	desc. node	9072 Jan 31 00:13	13° ≈ 17'52	
asc. node	9071 Apr 07 17:41	9° 8 54'48		max. Earth dist.	9072 Feb 07 05:53	25°≈16′10	1.43615 AU
retrograde	9071 Apr 11 17:10	11° 8 13'47			9072 Feb 10 04:40	0° ∀	
evening set	9071 Apr 15 15:21	9° 8 44'44		evening rise	9072 Feb 14 19:44	7°) 16′22	
inferior conj	9071 Apr 20 23:00	3° 8 39'58	3°12'03		9072 Feb 29 23:53	0° Υ	
minimum elong	9071 Apr 20 21:42	3° 8 44'22	3°11'46	evening max el	9072 Mar 16 17:44	20° Y 19'43	21°27'37
min. Earth dist.	9071 Apr 21 17:30	2° 8 36'53	0.67763 AU	asc. node	9072 Mar 24 14:49	25° Y ′29'54	
	9071 Apr 23 17:32	30° ₹ Υ		retrograde	9072 Mar 25 15:27	25° Y 35'13	
morning rise	9071 Apr 26 03:50	27° Y 22'51		evening set	9072 Mar 29 23:36	23° Y 51'00	
direct	9071 May 01 19:56	24° Y 51'14		inferior conj	9072 Apr 04 06:45	17° Ƴ 35'01	2°52'11
	9071 May 11 12:14	0° 8		minimum elong	9072 Apr 04 04:48	17° ℃ 41'50	2°51'43
desc. node	9071 May 12 03:23	0° 8 35'34	2.102.212.6	min. Earth dist.	9072 Apr 04 12:08	17° ℃ 16'18	0.68348 AU
morning max el	9071 May 13 06:33	1° 8 42'28	24°32'26	morning rise	9072 Apr 09 09:48	11° Υ 21'26	
. ,	9071 Jun 03 16:55	0°Ⅱ 220Ⅱ21154		direct	9072 Apr 14 12:21	9° Υ 07'51	2200212.4
morning set	9071 Jun 18 02:26	23° II 31'54	1 27522 ATT	morning max el	9072 Apr 24 16:26	15° Υ 09'59	23°02'34
max. Earth dist.	9071 Jun 21 17:35	0°900'23	1.37522 AU	desc. node	9072 Apr 28 00:18	18° Ƴ 46'52	
	9071 Jun 21 17:30	0ංම			9072 May 06 18:45	0°¤ 8°0	
aumariar aami	0071 Jun 29 14:45	120055111	0957106	marning act	9072 May 26 16:18	0 <u>П</u> 4° П 13'34	
superior conj minimum elong	9071 Jun 28 14:45 9071 Jun 28 18:21	12°©55'11 13°©12'39		morning set max. Earth dist.	9072 May 29 05:55 9072 Jun 02 13:49		1.39778 AU
asc. node	9071 Jul 28 18:21 9071 Jul 04 16:38	24°954'36	0 30 44	max. Earm dist.	9072 Juli 02 13.49	11 щ33 13	1.39//8 AU
evening rise	9071 Jul 04 10:38 9071 Jul 07 05:30	24 \$3430 29°\$58'26		superior conj	9072 Jun 10 07:08	25° Ⅱ 17'46	1°28'20
evening rise	9071 Jul 07 05:49	0° Ω		minimum elong	9072 Jun 10 07:08 9072 Jun 10 12:39	25° I I43'06	
evening max el	9071 Jul 23 22:28	27° Ω 14'06	19°15'54	minimum clong	9072 Jun 10 12:39 9072 Jun 12 20:02	0°95	1 28 00
evening max er	9071 Jul 27 08:24	0° m)	19 13 34	evening rise	9072 Jun 12 20:02 9072 Jun 19 23:06	13° © 33'25	
retrograde	9071 Aug 02 03:36	1° Mp 47'59		asc. node	9072 Jun 20 13:39	13° © 33'23	
evening set	9071 Aug 02 03:30 9071 Aug 04 00:16	1° Mp 37'35		use. Hode	9072 Jun 28 23:39	0°Ω	
desc. node	9071 Aug 04 00:10 9071 Aug 08 02:32	0°M)09'59		evening max el	9072 Jul 28 23:39 9072 Jul 06 00:59	9° Ω 28'23	18°32'37
acse. Houc	9071 Aug 08 02.32 9071 Aug 08 10:16	0 11J0939 30°RΩ		retrograde	9072 Jul 13 20:39	13° Ω 22'18	10 3431
inferior conj	9071 Aug 08 10:10 9071 Aug 12 13:38	27° Ω 27'51	-1°22'31	evening set	9072 Jul 15 20:39 9072 Jul 15 22:46	13° Ω 06'30	
minimum elong	9071 Aug 12 13:38 9071 Aug 12 09:58	$27^{\circ} \Omega 33'55$		inferior conj	9072 Jul 23 16:42	8° Ω 37'58	0°23'13
min. Earth dist.	9071 Aug 12 09:38 9071 Aug 15 06:14	27 0€ 33 33 25° Ω 41'01	0.55926 AU	minimum elong	9072 Jul 23 17:33	8° Ω 36'19	0°22'41
morning rise	9071 Aug 13 00:14 9071 Aug 20 16:49	23° Ω 47'22	0.00720710	desc. node	9072 Jul 24 23:37	7° Ω 37'36	J 11
direct	9071 Aug 25 19:06	21° Ω 47'52		min. Earth dist.	9072 Jul 27 00:19		0.57711 AU
morning max el	9071 Sep 08 22:06	28° Ω 57'21	25°27'45	morning rise	9072 Jul 31 08:47	3° Ω 20'31	
monning man or	9071 Sep 08 22:00 9071 Sep 09 23:38	0° Mp	20 27 10	direct	9072 Aug 06 06:06	1° Ω 52'32	
		~ '%				- 000232	

	0072 A 20 14-54	09 (020)21	26051125		0072 A 10 15:50	000	
morning max el	9072 Aug 20 14:54 9072 Sep 05 06:19	9° Ω 29'21 0° m	26°51′25		9073 Aug 10 15:50 9073 Aug 29 04:08	0° Ω 0° m	
asc. node	9072 Sep 03 00:19 9072 Sep 16 13:22	20° Mp 40'41		asc. node	9073 Aug 29 04.08 9073 Sep 03 10:18	10° Mp 32'17	
morning set	9072 Sep 10 13:22 9072 Sep 19 08:45	26° Mp 31'05		morning set	9073 Sep 03 10:18 9073 Sep 03 14:56	10° m/ 56'32	
morning set	9072 Sep 19 08:43 9072 Sep 20 23:46	ე∘ ი		max. Earth dist.	9073 Sep 09 21:14	24° m/28'18	1.31621 AU
	9072 Sep 20 23.40	0 ==		max. Earth dist.	9073 Sep 09 21.14	24 11/2010	1.31021 AU
superior conj	9072 Sep 26 07:11	11° ≏ 41'33	1°24'22	superior conj	9073 Sep 10 18:40	26° m 26'59	1°08'22
minimum elong	9072 Sep 26 05:08	11° ≏ 30′09	1°24'10	minimum elong	9073 Sep 10 16:25	26° Mp 14'32	1°07'59
max. Earth dist.	9072 Sep 26 11:32	12° ≏ 05'40	1.31646 AU		9073 Sep 12 09:05	0° ⊽	
evening rise	9072 Oct 03 03:04	26° ≙ 36'46		evening rise	9073 Sep 17 12:21	11° ≙ 14'46	
	9072 Oct 04 17:53	0° M .			9073 Sep 26 23:22	0°M₊	
desc. node	9072 Oct 20 22:07	28°M50'36		desc. node	9073 Oct 07 19:16	16°M57′03	
	9072 Oct 21 17:02	0°⊀		evening max el	9073 Oct 15 09:30	25°M37'34	25°49'27
evening max el	9072 Nov 02 12:51	14° ₰ 18'39	26°54'29		9073 Oct 20 22:50	0°⊀	
retrograde	9072 Nov 16 10:54	21° ≯ 28'17		retrograde	9073 Oct 29 07:33	2° ҂ 39'57	
evening set	9072 Nov 23 08:04	19° ≯ 26'21		evening set	9073 Nov 04 13:11	1° ≯ 08'47	
min. Earth dist.	9072 Nov 27 03:18	16° ∡ 747'45	0.60205 AU		9073 Nov 06 16:17	30°RM₊	
inferior conj	9072 Nov 30 07:25	14° ∡ 11'47		min. Earth dist.	9073 Nov 08 22:09	28°M32'55	
minimum elong	9072 Nov 30 14:46	13° ≯ 56'42	3°59'15	inferior conj	9073 Nov 12 00:00	26°M21'31	
morning rise	9072 Dec 07 23:58	9° ∡ 127′08		minimum elong	9073 Nov 12 06:52	26°M09'15	5°00'53
direct	9072 Dec 10 04:10	9° ₹ 09'04		morning rise	9073 Nov 20 02:53	21°M59'19	
asc. node	9072 Dec 13 13:04	9° ∡ 54'35		direct	9073 Nov 22 09:50	21°M42'37	
morning max el	9072 Dec 17 15:22	12° ∡ ′51'35	18°05'25	asc. node	9073 Nov 30 10:05	25°M22'17	
	9072 Dec 29 03:42	0°₹		morning max el	9073 Nov 30 21:27	25°M48'59	18°42'36
morning set	9073 Jan 02 07:13	7° る 39'27			9073 Dec 04 12:33	0°⊀	
				morning set	9073 Dec 17 03:12	21° х 51'23	
superior conj	9073 Jan 12 02:14	25° る 39'30			9073 Dec 21 07:29	0°る	
minimum elong	9073 Jan 12 04:51	25° る 51'12	0°35'23			_	
	9073 Jan 14 13:14	0° ≈		superior conj	9073 Dec 25 19:13	8° る 35'22	
desc. node	9073 Jan 16 21:11	4°≈02'13		minimum elong	9073 Dec 25 22:31	8° ろ 50'52	
max. Earth dist.	9073 Jan 19 17:21	8° ≈ 51′00	1.41812 AU	max. Earth dist.	9074 Jan 02 00:44	21° る 44'54	1.39700 AU
evening rise	9073 Jan 25 00:06	17° ≈ 30'47		desc. node	9074 Jan 03 18:10	24° る 45'15	
	9073 Feb 02 00:04	0° ∀		evening rise	9074 Jan 06 01:35	28° る 41'33	
	9073 Feb 23 17:46	0° Υ			9074 Jan 06 20:15	0° ≈	
evening max el	9073 Feb 27 10:46	4° Υ 02'44	22°45'38		9074 Jan 26 11:50	0°) (1011 €	
retrograde	9073 Mar 09 11:44	9° Υ 59'34		evening max el	9074 Feb 10 01:04	17°) (49'16	24°05'52
asc. node	9073 Mar 11 11:56	9° Υ 39'33		retrograde	9074 Feb 21 04:42	24°) (22'07	
evening set	9073 Mar 14 07:03	8° Υ 00'31		asc. node	9074 Feb 26 09:04	22°) 15'43	
inferior conj	9073 Mar 19 15:38	1° Y 36′27		evening set	9074 Feb 26 12:10	22°) (09'11	
minimum elong	9073 Mar 19 13:24	1° Υ 44'11	2°22'07	min. Earth dist.	9074 Mar 03 05:11	16°) 43'33	0.68235 AU
min. Earth dist.	9073 Mar 19 08:48	2°Υ00'08	0.68502 AU	inferior conj	9074 Mar 03 23:44	15°) € 40'48	1°44'21
	9073 Mar 20 19:40	30° ₹		minimum elong	9074 Mar 03 21:41	15°) (47'44	1°43'44
morning rise	9073 Mar 24 19:37	25° ¥ 27′50		morning rise	9074 Mar 09 07:14	9°) (38'42	
direct	9073 Mar 29 08:23	23°\(\frac{1}{3}35'39	21°35'54	direct	9074 Mar 13 06:46	8°) €08'41	20010122
morning max el	9073 Apr 07 05:57	28°) 46′00 0° °	21 33 34	morning max el	9074 Mar 21 02:21	12° ∺ 34′04 27° ∺ 19′34	20 1922
dasa mada	9073 Apr 08 10:32 9073 Apr 14 21:13	0° γ 7° Υ 45'52		desc. node	9074 Apr 01 18:08 9074 Apr 03 14:47	2/°π1934 0°Υ	
desc. node	9073 Apr 14 21:13 9073 Apr 30 10:40	/ 14332 0° と		morning set	9074 Apr 18 08:29	22°Υ09'35	
morning set	9073 Apr 30 10:40 9073 May 09 06:09	13° 8 39'50		morning set	9074 Apr 18 08:29 9074 Apr 23 09:06	0° 8	
max. Earth dist.	9073 May 05 00:09 9073 May 15 14:18	23° 8 56'11	1.41953 AU	max. Earth dist.	9074 Apr 27 22:34		1.43768 AU
max. Earm dist.	9073 May 13 14.18 9073 May 19 05:19	0°II	1.41933 AU	max. Earth dist.	9074 Apr 27 22.34	/ 01431	1.43706 AU
	7075 Way 17 05.19	V <u>н</u>		superior conj	9074 May 04 01:06	17° 8 11'04	-2°10'32
superior conj	9073 May 23 03:57	6° Ⅱ 45'46	-1°54'51	minimum elong	9074 May 04 01:00 9074 May 04 03:50	17° 8 22'24	
minimum elong	9073 May 23 09:49	7° Ⅱ 11'19		minimum ciong	9074 May 11 15:50	0° Ⅱ	2 10 40
evening rise	9073 Jun 03 04:20	26° I [31'23	1 3430	evening rise	9074 May 16 16:40	8° ∏ 42'12	
evening rise	9073 Jun 05 02:01	0°9		asc. node	9074 May 10 10:40 9074 May 25 07:46	23° II 29'44	
asc. node	9073 Jun 07 10:42	4°916'34		use. Hode	9074 May 29 12:48	0°95	
evening max el	9073 Jun 19 10:42	22°916'18	18°09'36	evening max el	9074 Jun 02 23:51	5° 5 27'59	18°05'53
retrograde	9073 Jun 26 08:07	25°945'41	10 0/30	retrograde	9074 Jun 02 23:31 9074 Jun 09 10:22	8°948'33	10 00 00
evening set	9073 Jun 28 17:57	25°\$20'36		evening set	9074 Jun 12 03:49	8°911'33	
inferior conj	9073 Jul 05 17:09	23 \$2030 20°\$31'27	1°43'43	inferior conj	9074 Jun 12 03:49 9074 Jun 18 11:47	3°902'48	2°37'22
minimum elong	9073 Jul 05 17:57	20°93127 20°925'06	1°42'36	minimum elong	9074 Jun 18 11:47 9074 Jun 18 14:32	2°955'41	
min. Earth dist.	9073 Jul 09 01:08	20 \$23 06 17°\$31'58	0.59895 AU	mminum ciong	9074 Jun 21 10:51	2 €33341 30°R∏	2 30 30
desc. node	9073 Jul 11 20:44	17 \$31 38 15°\$20'38	0.57075 AU	min. Earth dist.	9074 Jun 21 10:25	30 km 0° © 01'04	0.62145 AU
morning rise	9073 Jul 11 20:44 9073 Jul 12 19:01	13 \$2038 14°\$44'45		morning rise	9074 Jun 24 23:18	0 €501 04 26° II 57'10	0.02143 AU
direct	9073 Jul 12 19.01 9073 Jul 19 06:12	14 \$344 43 12°\$45'52		desc. node	9074 Jun 28 17:48	26 ∏ 57 10 24° ∏ 59'49	
morning max el	9073 Jul 19 00.12 9073 Aug 02 14:21	12 \$343 32 20°\$39'24	27042136	direct	9074 Jul	24° I I39'49 24° I I32'17	
morning max ci	7013 Aug 02 14.21	20 کی 37 ک	21 72 JU	uncet	7077 Jul VI 10.40	47 11 341/	

	9074 Jul 13 02:07	0°9		desc. node	9075 Jun 15 14:50	7° Ⅱ 10'39	
morning max el	9074 Jul 15 02:07	2° © 33'56	27°55'47	morning max el	9075 Jun 28 05:39	15° Ⅱ 06'58	27°32'10
morning max cr	9074 Aug 05 01:52	0°Ω	27 33 47	morning max cr	9075 Jul 10 09:07	0°95	27 32 10
morning set	9074 Aug 18 15:37	25° Ω 03'26			9075 Jul 28 18:40	$0^{\circ}\Omega$	
asc. node	9074 Aug 21 07:14	0° mp 33'11		morning set	9075 Aug 02 08:18	8° Ω 44'28	
use. Houe	9074 Aug 21 00:56	0° mp		max. Earth dist.	9075 Aug 07 03:29	18° Ω 29'05	1.32999 AU
max. Earth dist.	9074 Aug 24 03:54	6° Mp 39'56	1.32070 AU	asc. node	9075 Aug 08 04:11	20° Ω 38'25	1.52,,,,110
	711111111111111111111111111111111111111				7 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
superior conj	9074 Aug 26 04:09	11° m 02'39	0°47'32	superior conj	9075 Aug 10 09:39	25° Ω 22'16	0°22'16
minimum elong	9074 Aug 26 02:13	10° m 52′02	0°47'04	minimum elong	9075 Aug 10 08:35	25° Ω 16'32	0°21'53
evening rise	9074 Sep 01 23:40	25° m 55'54		-	9075 Aug 12 13:18	o° mp	
	9074 Sep 03 21:44	0∘ ত		evening rise	9075 Aug 17 11:06	10° m 33'49	
	9074 Sep 21 10:29	0°M			9075 Aug 27 09:50	0∘ ⊽	
desc. node	9074 Sep 24 16:25	3°M50'36		evening max el	9075 Sep 08 10:03	16° ≙ 20'25	22°39'32
evening max el	9074 Sep 26 22:43	6°M10'04	24°19'19	desc. node	9075 Sep 11 13:33	19° ≙ 04'07	
retrograde	9074 Oct 10 16:15	13°M03'10		retrograde	9075 Sep 21 12:57	22° ≏ 53'12	
evening set	9074 Oct 15 17:43	12°M06'38		evening set	9075 Sep 25 02:09	22° ≏ 25'30	
min. Earth dist.	9074 Oct 21 09:30	9°M15'00	0.56321 AU	min. Earth dist.	9075 Oct 02 17:37	19° ഫ 00'35	0.55066 AU
inferior conj	9074 Oct 23 20:13	7° M 43'40	-5°36'47	inferior conj	9075 Oct 03 22:03	18° ≏ 20'08	-5°25'05
minimum elong	9074 Oct 23 22:21	7° M 40'22	5°36'32	minimum elong	9075 Oct 03 16:25	18° ≏ 28'09	5°24'20
morning rise	9074 Nov 01 05:05	3° ™ 43'00		morning rise	9075 Oct 12 08:36	14° ≙ 32'07	
direct	9074 Nov 03 20:23	3°M24'34		direct	9075 Oct 15 12:47	14° ≙ 09'03	
morning max el	9074 Nov 13 16:37	8°M03'58	19°42'01	morning max el	9075 Oct 26 22:45	19° ≙ 30′26	21°03'42
asc. node	9074 Nov 17 07:05	12° M 04'49		asc. node	9075 Nov 04 04:03	29° ≙ 46'50	
	9074 Nov 28 01:42	0° ∡ 7			9075 Nov 04 07:26	0°M₊	
morning set	9074 Dec 01 06:42	6° ₹ 22'55		morning set	9075 Nov 15 15:00	21°M06'26	
					9075 Nov 19 21:01	0°⊀	
superior conj	9074 Dec 09 03:38	22° ∡ 14'54	1°24'15			_	
minimum elong	9074 Dec 09 06:20		1°24'15	superior conj	9075 Nov 22 23:12	6° ₹ 25'55	1°36'07
	9074 Dec 13 03:30	0° ろ		minimum elong	9075 Nov 23 00:43		1°36'16
max. Earth dist.	9074 Dec 15 06:52	4°る01'22	1.37523 AU	max. Earth dist.	9075 Nov 27 16:12	15° ₹ 56'14	1.35519 AU
evening rise	9074 Dec 19 00:17	10°る47'49		evening rise	9075 Dec 01 17:13	23° ∡ ⁴42'18	
desc. node	9074 Dec 21 15:11	15° පි 23'20			9075 Dec 05 03:42	0°る	
	9074 Dec 30 13:06	0° ≈		desc. node	9075 Dec 08 12:12	5° る 52'20	
	9075 Jan 21 23:51	0°) {	25021122		9075 Dec 24 04:38	0°≈	26025122
evening max el	9075 Jan 23 14:18	1°) 37'31 8°) 37'28	25°21'33	evening max el	9076 Jan 06 03:28	15°≈23'12	26°25'32
retrograde	9075 Feb 04 17:17	6° X 3728		retrograde	9076 Jan 19 00:51 9076 Jan 25 08:54	22°≈39'27 20°≈06'27	
evening set asc. node	9075 Feb 10 13:21 9075 Feb 13 06:11	3° X 12'37		evening set min. Earth dist.	9076 Jan 25 08:54 9076 Jan 29 12:12	20°≈06′27 15°≈50′13	0.66520 AU
min. Earth dist.	9075 Feb 13 00.11 9075 Feb 14 23:02	1° X 21'50	0.67569 AU	inferior conj	9076 Jan 29 12.12 9076 Jan 31 06:00	13 ≈30 13 13°≈43'43	0.00320 AU 0°02'16
inferior conj	9075 Feb 16 05:11	29°≈44'26	0.07309 AO 0°57'25	minimum elong	9076 Jan 31 05:56	13°≈43'56	0°02'26
minimum elong	9075 Feb 16 03:50	29°≈48'47	0°57'03	transit middle	9076 Jan 31 05:56	13°≈43'56	0°02'26
minimum clong	9075 Feb 16 00:22	20°R≈	0 37 03	transit begin	9076 Jan 31 03:05	13°≈52'36	0 02 20
morning rise	9075 Feb 21 18:41	23°≈50'28		transit end	9076 Jan 31 08:48	13°≈35'16	
direct	9075 Feb 25 05:59	22° ≈ 41'14		asc. node	9076 Jan 31 03:17	13°≈52'00	
morning max el	9075 Mar 04 06:45	26° ≈ 33'43	19°16'53	morning rise	9076 Feb 06 03:51	7°≈59'52	
	9075 Mar 07 09:12	0°) €		direct	9076 Feb 09 04:23	7°≈08'29	
greatest brilliancy	9075 Mar 17 06:34	13°) 45′55	-0.7m	morning max el	9076 Feb 15 18:04	10° ≈ 40'41	18°30'19
desc. node	9075 Mar 19 15:01	17°) 18′20		C	9076 Feb 29 16:26	0°) €	
	9075 Mar 27 21:52	$0^{\circ}\mathbf{Y}$		desc. node	9076 Mar 05 11:54	7° ₩ 35'31	
morning set	9075 Mar 28 08:35	0° Υ 41'21		morning set	9076 Mar 07 05:09	10° ℋ 18'49	
max. Earth dist.	9075 Apr 10 13:22	21° Y 15'13	1.45009 AU	-	9076 Mar 19 17:11	$0^{\circ}\Upsilon$	
superior conj	9075 Apr 13 22:19	26° Ƴ 35′27	-2°09'16	superior conj	9076 Mar 23 04:45	5° Ƴ 27'02	-1°47'44
minimum elong	9075 Apr 13 18:13	26° Ƴ 19′09	2°09'15	minimum elong	9076 Mar 22 19:25	4° Ƴ 50'31	1°46'58
	9075 Apr 16 01:39	9° 8		max. Earth dist.	9076 Mar 23 07:47	5° Ƴ 38'52	1.45550 AU
evening rise	9075 Apr 28 07:30	19° 8 56'26		evening rise	9076 Apr 07 22:38	0° 8 12'39	
	9075 May 04 09:28	0° Ⅱ			9076 Apr 07 19:27	0° 8	
asc. node	9075 May 12 04:51	12° Ⅲ 15′02		greatest brilliancy	9076 Apr 17 01:33	14° 8 37'40	-0.8m
evening max el	9075 May 17 13:04		18°20'44		9076 Apr 27 17:59	0°II	
retrograde	9075 May 23 22:47	22° II 20'22		asc. node	9076 Apr 28 01:56	0° Ⅲ 23'41	
evening set	9075 May 26 23:37	21° Ⅱ 29'54		evening max el	9076 Apr 29 23:45	2° Ⅱ 29'17	18°53'24
inferior conj	9075 Jun 01 20:24	16° Ⅱ 03'21	3°08'09	retrograde	9076 May 06 17:25	6° Ⅱ 13'34	
minimum elong	9075 Jun 01 22:07	15° Ⅱ 58'24	3°07'40	evening set	9076 May 10 01:54	5° Ⅱ 08'38	
min. Earth dist.	9075 Jun 04 05:06	13° Ⅱ 20'04	0.64208 AU		9076 May 15 04:23	30°R ∀	2020110
morning rise	9075 Jun 07 19:30	9° ∏ 47'45		inferior conj	9076 May 15 15:13	29° 8 26'02	
direct	9075 Jun 14 12:02	7° Ⅱ 06'34		minimum elong	9076 May 15 15:38	29° 8 24'44	5~20'24

min. Earth dist.	9076 May 17 08:44	27° 8 15'44	0.65929 AU	asc. node	9077 Apr 14 23:03	17° 8 44'06	
morning rise	9076 May 21 04:47	23° 8 06'57		retrograde	9077 Apr 20 15:11	20° 8 21'43	
direct	9076 May 27 14:46	20° 8 21'01		evening set	9077 Apr 24 08:04	19° 8 01'41	
desc. node	9076 Jun 01 11:50	21° 8 39'45		inferior conj	9077 Apr 29 17:02	13° 8 04'42	3°18'41
morning max el	9076 Jun 09 16:19	28° 8 06'59	26°37'51	minimum elong	9077 Apr 29 16:18	13° 8 07'11	3°18'28
	9076 Jun 11 11:19	0°Щ		min. Earth dist.	9077 Apr 30 19:43	11° 8 35'49	0.67223 AU
	9076 Jul 03 03:03	0°9		morning rise	9077 May 05 00:11	6° 8 46'11	
morning set	9076 Jul 15 13:48	21° © 51'11		direct	9077 May 10 23:39	4° 8 06'33	
max. Earth dist.	9076 Jul 19 16:49	29° © 50'58	1.34418 AU	desc. node	9077 May 19 08:47	7° 8 56'38	
	9076 Jul 19 18:38	0 $^{\circ}$ Ω		morning max el	9077 May 23 02:06	11° 8 22'02	25°21'56
					9077 Jun 06 23:03	0°II	
superior conj	9076 Jul 24 08:52	9° £ 19'43			9077 Jun 25 19:16	0°95	
minimum elong	9076 Jul 24 09:15	9° £ 21'44	0°06'55	morning set	9077 Jun 28 04:01	4°5512'44	1 2 (200 177
behind sun begin	9076 Jul 24 03:58	8° £ 54'22		max. Earth dist.	9077 Jul 01 19:33	10° © 55'15	1.36288 AU
behind sun end	9076 Jul 24 14:32	9° Ω 49'07			0077 I1 07 22.04	2206749117	0020124
asc. node	9076 Jul 25 01:08	10° Ω 44'08		superior conj	9077 Jul 07 23:04	22°948'17	
evening rise	9076 Jul 31 20:42	25° Ω 02'57		minimum elong	9077 Jul 08 01:26	22° © 59'59 0° Ω 46'48	0°38'12
avanina may al	9076 Aug 03 06:18	0° Mp 26° Mp 45′48	21906129	asc. node	9077 Jul 11 22:06 9077 Jul 11 12:54	0° Ω	
evening max el	9076 Aug 20 04:54	20 111/4348 0° Ω	21 00 28	ovening rise	9077 Jul 11 12.34 9077 Jul 16 02:19	9° Ω 17'32	
desc. node	9076 Aug 24 02:38 9076 Aug 28 10:42	0 ഫ 2° ഫ 06'12		evening rise	9077 Jul 16 02:19 9077 Jul 27 08:01	9 8 C 1 / 3 Z 0° Mp	
retrograde	9076 Sep 01 01:33	2° ⊆ 38'36		evening max el	9077 Aug 02 12:53	0 10√ 7° Mg 52'08	19°50'25
evening set	9076 Sep 01 01:33 9076 Sep 03 09:34	2° £ 25'49		retrograde	9077 Aug 02 12:53 9077 Aug 12 16:50	12° My 53'34	19 30 23
evening set	9076 Sep 09 20:44	2 == 23 49 30°R MD		evening set	9077 Aug 12 10:30 9077 Aug 14 13:38	12° mp 44'09	
inferior conj	9076 Sep 12 14:35	28° Mp 29'22	-4°17'25	desc. node	9077 Aug 14 13:38 9077 Aug 15 07:50	12° m) 35'11	
minimum elong	9076 Sep 12 14:53	28° Mp 43'03	4°14'47	inferior conj	9077 Aug 13 07:30 9077 Aug 23 12:12	8° Mp 43'06	-2°29'41
min. Earth dist.	9076 Sep 13 02:12	28° m) 12'58	0.54655 AU	minimum elong	9077 Aug 23 12:12 9077 Aug 23 05:25	8° m) 53'30	2°27'18
morning rise	9076 Sep 21 00:39	24° m/35'20	0.54055710	min. Earth dist.	9077 Aug 25 03:25 9077 Aug 25 13:08	7° Mp 28'16	0.55209 AU
direct	9076 Sep 24 20:53	24° m 03'35		morning rise	9077 Aug 31 19:21	4° Mp 23'31	0.33207710
morning max el	9076 Oct 07 17:06	0° ჲ 11'24	22°43'16	direct	9077 Sep 05 10:31	3° Mp 36'21	
morning max or	9076 Oct 07 17:00 9076 Oct 07 12:11	0∘ 亞	22 13 10	morning max el	9077 Sep 19 05:23		24°29'39
asc. node	9076 Oct 21 01:00	18° ≏ 14'10		g v.	9077 Oct 03 21:06	0∘ ⊽	2. 2, 3,
	9076 Oct 27 05:31	0°M		asc. node	9077 Oct 07 21:56	7° ≙ 15'46	
morning set	9076 Oct 30 01:55	5°M55'03		morning set	9077 Oct 14 13:42	20° ₽ 44'04	
Č				C	9077 Oct 18 20:13	0° M	
superior conj	9076 Nov 06 02:24	20°M57'31	1°40'44				
minimum elong	9076 Nov 06 02:38	20°M58'47	1°40'56	superior conj	9077 Oct 21 10:37	5° M ₊41'46	1°38'54
max. Earth dist.	9076 Nov 09 08:51	27°M50'41	1.33865 AU	minimum elong	9077 Oct 21 09:43	5° M ₊36'52	1°39'01
	9076 Nov 10 09:55	0° ∡ ¹		max. Earth dist.	9077 Oct 23 09:51	9° ™ 58'30	1.32648 AU
evening rise	9076 Nov 14 00:30	7° ∡ 14'39		evening rise	9077 Oct 28 18:41	21°M15'56	
desc. node	9076 Nov 24 09:14	26° ₰ 06'29			9077 Nov 02 05:02	0° ∡ ¹	
	9076 Nov 26 17:49	0°ප		desc. node	9077 Nov 11 06:19	15° ∡ ′59'18	
evening max el	9076 Dec 18 16:34	28° る 57'47	27°10'34		9077 Nov 20 16:16	0°₹	
	9076 Dec 19 19:17	0° ≈		evening max el	9077 Dec 01 04:19	12° る 10'09	27°29'35
retrograde	9077 Jan 01 02:33	6°≈19'24		retrograde	9077 Dec 14 21:30	19° る 28'54	
evening set	9077 Jan 07 20:40	3° ≈ 44'03		evening set	9077 Dec 21 22:06	16° る 59'01	
	9077 Jan 11 19:01	30°Ŗ₹		min. Earth dist.	9077 Dec 25 15:55	13° る 47'06	0.63392 AU
min. Earth dist.	9077 Jan 11 18:30		0.65114 AU	inferior conj	9077 Dec 28 08:20	11° る 05'55	-2°09'32
inferior conj							
minimum elong	9077 Jan 13 23:56	27° る 32'56		minimum elong	9077 Dec 28 12:28	10° る 55'32	2°07'37
_	9077 Jan 14 01:44	27° る 27'54		asc. node	9078 Jan 03 21:26	5°₹57′16	2°07'37
asc. node	9077 Jan 14 01:44 9077 Jan 17 00:22	27° ප් 27'54 24° ප් 23'58		asc. node morning rise	9078 Jan 03 21:26 9078 Jan 04 04:48	5°ප57'16 5°ප49'56	2°07'37
asc. node morning rise	9077 Jan 14 01:44 9077 Jan 17 00:22 9077 Jan 20 08:15	27° ට 27' 54 24° ට 23' 58 22° ට 01' 30		asc. node morning rise direct	9078 Jan 03 21:26 9078 Jan 04 04:48 9078 Jan 06 13:42	5° 857'16 5° 849'56 5° 822'51	
asc. node morning rise direct	9077 Jan 14 01:44 9077 Jan 17 00:22 9077 Jan 20 08:15 9077 Jan 22 23:49	27° ට 27'54 24° ට 23'58 22°ට01'30 21°ට24'13	0°59'33	asc. node morning rise	9078 Jan 03 21:26 9078 Jan 04 04:48 9078 Jan 06 13:42 9078 Jan 13 03:18	5°857'16 5°849'56 5°822'51 8°846'18	2°07'37 17°47'48
asc. node morning rise	9077 Jan 14 01:44 9077 Jan 17 00:22 9077 Jan 20 08:15 9077 Jan 22 23:49 9077 Jan 29 09:53	27°		asc. node morning rise direct morning max el	9078 Jan 03 21:26 9078 Jan 04 04:48 9078 Jan 06 13:42 9078 Jan 13 03:18 9078 Jan 27 07:15	5°ਰ57'16 5°ਰ49'56 5°ਰ22'51 8°ਰ46'18 0°≈	
asc. node morning rise direct morning max el	9077 Jan 14 01:44 9077 Jan 17 00:22 9077 Jan 20 08:15 9077 Jan 22 23:49 9077 Jan 29 09:53 9077 Feb 02 18:15	27°る27'54 24°る23'58 22°る01'30 21°る24'13 24°る47'19 0°≈	0°59'33	asc. node morning rise direct morning max el morning set	9078 Jan 03 21:26 9078 Jan 04 04:48 9078 Jan 06 13:42 9078 Jan 13 03:18 9078 Jan 27 07:15 9078 Jan 29 11:22	5° で557'16 5° で549'56 5° で522'51 8° で546'18 0° ※ 3° ※45'20	
asc. node morning rise direct morning max el morning set	9077 Jan 14 01:44 9077 Jan 17 00:22 9077 Jan 20 08:15 9077 Jan 22 23:49 9077 Jan 29 09:53 9077 Feb 02 18:15 9077 Feb 16 07:05	27°る27'54 24°る23'58 22°る01'30 21°る24'13 24°る47'19 0°≈ 21°≈23'46	0°59'33	asc. node morning rise direct morning max el	9078 Jan 03 21:26 9078 Jan 04 04:48 9078 Jan 06 13:42 9078 Jan 13 03:18 9078 Jan 27 07:15	5°ਰ57'16 5°ਰ49'56 5°ਰ22'51 8°ਰ46'18 0°≈	
asc. node morning rise direct morning max el	9077 Jan 14 01:44 9077 Jan 17 00:22 9077 Jan 20 08:15 9077 Jan 22 23:49 9077 Jan 29 09:53 9077 Feb 02 18:15 9077 Feb 16 07:05 9077 Feb 20 08:46	27° G 27'54 24° G 23'58 22° G 01'30 21° G 24'13 24° G 47'19 0°≈ 21°≈23'46 28°≈05'13	0°59'33	asc. node morning rise direct morning max el morning set desc. node	9078 Jan 03 21:26 9078 Jan 04 04:48 9078 Jan 06 13:42 9078 Jan 13 03:18 9078 Jan 27 07:15 9078 Jan 29 11:22 9078 Feb 07 05:39	5°♂57'16 5°♂49'56 5°♂22'51 8°♂46'18 0°≈ 3°≈45'20 18°≈43'29	17°47'48
asc. node morning rise direct morning max el morning set	9077 Jan 14 01:44 9077 Jan 17 00:22 9077 Jan 20 08:15 9077 Jan 22 23:49 9077 Jan 29 09:53 9077 Feb 02 18:15 9077 Feb 16 07:05	27°る27'54 24°る23'58 22°る01'30 21°る24'13 24°る47'19 0°≈ 21°≈23'46	0°59'33	asc. node morning rise direct morning max el morning set desc. node superior conj	9078 Jan 03 21:26 9078 Jan 04 04:48 9078 Jan 06 13:42 9078 Jan 13 03:18 9078 Jan 27 07:15 9078 Jan 29 11:22 9078 Feb 07 05:39	5°♂57'16 5°♂49'56 5°♂22'51 8°♂46'18 0°≈ 3°≈45'20 18°≈43'29	17°47'48 -0°26'07
asc. node morning rise direct morning max el morning set desc. node	9077 Jan 14 01:44 9077 Jan 17 00:22 9077 Jan 20 08:15 9077 Jan 22 23:49 9077 Jan 29 09:53 9077 Feb 02 18:15 9077 Feb 16 07:05 9077 Feb 20 08:46 9077 Feb 21 12:52	27°る27'54 24°る23'58 22°る01'30 21°る24'13 24°る47'19 0°≈ 21°≈23'46 28°≈05'13 0°升	0°59'33 18°00'25	asc. node morning rise direct morning max el morning set desc. node	9078 Jan 03 21:26 9078 Jan 04 04:48 9078 Jan 06 13:42 9078 Jan 13 03:18 9078 Jan 27 07:15 9078 Jan 29 11:22 9078 Feb 07 05:39 9078 Feb 10 19:27 9078 Feb 10 16:40	5°♂57'16 5°♂49'56 5°♂22'51 8°♂46'18 0°≈ 3°≈45'20 18°≈43'29 24°≈39'34 24°≈28'08	17°47'48
asc. node morning rise direct morning max el morning set desc. node	9077 Jan 14 01:44 9077 Jan 17 00:22 9077 Jan 20 08:15 9077 Jan 22 23:49 9077 Jan 29 09:53 9077 Feb 02 18:15 9077 Feb 16 07:05 9077 Feb 20 08:46 9077 Feb 21 12:52 9077 Mar 02 14:21	27°る27'54 24°る23'58 22°る01'30 21°る24'13 24°る47'19 0°≈ 21°≈23'46 28°≈05'13 0°升	0°59'33 18°00'25 -1°10'03	asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	9078 Jan 03 21:26 9078 Jan 04 04:48 9078 Jan 06 13:42 9078 Jan 13 03:18 9078 Jan 27 07:15 9078 Jan 29 11:22 9078 Feb 07 05:39 9078 Feb 10 19:27 9078 Feb 10 16:40 9078 Feb 14 02:02	5°♂57'16 5°♂49'56 5°♂22'51 8°♂46'18 0°≈ 3°≈45'20 18°≈43'29 24°≈39'34 24°≈28'08 0°∺	17°47'48 -0°26'07 0°25'31
asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	9077 Jan 14 01:44 9077 Jan 17 00:22 9077 Jan 20 08:15 9077 Jan 22 23:49 9077 Jan 29 09:53 9077 Feb 02 18:15 9077 Feb 16 07:05 9077 Feb 20 08:46 9077 Feb 21 12:52 9077 Mar 02 14:21 9077 Mar 02 06:28	27°る27'54 24°る23'58 22°る01'30 21°る24'13 24°る47'19 0°≈ 21°≈23'46 28°≈05'13 0°米 14°¥34'11 14°¥02'56	0°59'33 18°00'25 -1°10'03 1°08'58	asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	9078 Jan 03 21:26 9078 Jan 04 04:48 9078 Jan 06 13:42 9078 Jan 13 03:18 9078 Jan 27 07:15 9078 Jan 29 11:22 9078 Feb 07 05:39 9078 Feb 10 19:27 9078 Feb 10 16:40 9078 Feb 14 02:02 9078 Feb 16 21:25	5°♂57'16 5°♂49'56 5°♂22'51 8°♂46'18 0°≈ 3°≈45'20 18°≈43'29 24°≈39'34 24°≈28'08 0° € 4° € 30'33	17°47'48 -0°26'07
asc. node morning rise direct morning max el morning set desc. node	9077 Jan 14 01:44 9077 Jan 17 00:22 9077 Jan 20 08:15 9077 Jan 22 23:49 9077 Jan 29 09:53 9077 Feb 02 18:15 9077 Feb 16 07:05 9077 Feb 20 08:46 9077 Feb 21 12:52 9077 Mar 02 14:21 9077 Mar 02 06:28 9077 Mar 06 03:12	27°る27'54 24°る23'58 22°る01'30 21°る24'13 24°る47'19 0°≈ 21°≈23'46 28°≈05'13 0°米 14°米34'11 14°米02'56 20°米08'54	0°59'33 18°00'25 -1°10'03 1°08'58	asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	9078 Jan 03 21:26 9078 Jan 04 04:48 9078 Jan 06 13:42 9078 Jan 13 03:18 9078 Jan 27 07:15 9078 Jan 29 11:22 9078 Feb 07 05:39 9078 Feb 10 19:27 9078 Feb 10 16:40 9078 Feb 14 02:02 9078 Feb 16 21:25 9078 Feb 26 04:56	5°\overline{S57'16} 5°\overline{S49'56} 5°\overline{S22'51} 8°\overline{S46'18} 0°\implies 3°\implies45'20 18°\implies43'29 24°\implies39'34 24°\implies28'08 0°\overline{H} 4°\overline{H}30'33 19°\overline{H}04'49	17°47'48 -0°26'07 0°25'31
asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	9077 Jan 14 01:44 9077 Jan 17 00:22 9077 Jan 20 08:15 9077 Jan 22 23:49 9077 Jan 29 09:53 9077 Feb 02 18:15 9077 Feb 16 07:05 9077 Feb 20 08:46 9077 Feb 21 12:52 9077 Mar 02 14:21 9077 Mar 02 06:28 9077 Mar 06 03:12 9077 Mar 12 10:40	27°る27'54 24°る23'58 22°る01'30 21°る24'13 24°る47'19 0°≈ 21°≈23'46 28°≈05'13 0°米 14°米34'11 14°米02'56 20°米08'54 0°Ŷ	0°59'33 18°00'25 -1°10'03 1°08'58	asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	9078 Jan 03 21:26 9078 Jan 04 04:48 9078 Jan 06 13:42 9078 Jan 13 03:18 9078 Jan 27 07:15 9078 Jan 29 11:22 9078 Feb 07 05:39 9078 Feb 10 19:27 9078 Feb 10 16:40 9078 Feb 14 02:02 9078 Feb 16 21:25 9078 Feb 26 04:56 9078 Mar 05 09:29	5°♂57'16 5°♂49'56 5°♂22'51 8°♂46'18 0°≈ 3°≈45'20 18°≈43'29 24°≈39'34 24°≈28'08 0°¥ 4°¥30'33 19°¥04'49 0°°\$	17°47'48 -0°26'07 0°25'31
asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	9077 Jan 14 01:44 9077 Jan 17 00:22 9077 Jan 20 08:15 9077 Jan 22 23:49 9077 Jan 29 09:53 9077 Feb 02 18:15 9077 Feb 16 07:05 9077 Feb 20 08:46 9077 Feb 21 12:52 9077 Mar 02 14:21 9077 Mar 02 06:28 9077 Mar 06 03:12 9077 Mar 12 10:40 9077 Mar 18 17:45	27°る27'54 24°る23'58 22°る01'30 21°る24'13 24°る47'19 0°≈ 21°≈23'46 28°≈05'13 0°升 14°升34'11 14°升02'56 20°升08'54 0°Ƴ 9°Ƴ44'17	0°59'33 18°00'25 -1°10'03 1°08'58	asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	9078 Jan 03 21:26 9078 Jan 04 04:48 9078 Jan 06 13:42 9078 Jan 13 03:18 9078 Jan 27 07:15 9078 Jan 29 11:22 9078 Feb 07 05:39 9078 Feb 10 19:27 9078 Feb 10 16:40 9078 Feb 14 02:02 9078 Feb 16 21:25 9078 Feb 26 04:56 9078 Mar 05 09:29 9078 Mar 27 11:20	5°♂57'16 5°♂49'56 5°♂22'51 8°♂46'18 0°≈ 3°≈45'20 18°≈43'29 24°≈39'34 24°≈28'08 0°¥ 4°¥30'33 19°¥04'49 0°Ŷ	17°47'48 -0°26'07 0°25'31 1.44434 AU
asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	9077 Jan 14 01:44 9077 Jan 17 00:22 9077 Jan 20 08:15 9077 Jan 22 23:49 9077 Jan 29 09:53 9077 Feb 02 18:15 9077 Feb 16 07:05 9077 Feb 20 08:46 9077 Feb 21 12:52 9077 Mar 02 14:21 9077 Mar 02 06:28 9077 Mar 06 03:12 9077 Mar 12 10:40 9077 Mar 18 17:45 9077 Apr 01 01:02	27°327'54 24°323'58 22°301'30 21°324'13 24°347'19 0°≈ 21°≈23'46 28°≈05'13 0° 升 14°34'11 14°34'11 14°36'56 20°36'13 0°97'14'17 0°8	0°59'33 18°00'25 -1°10'03 1°08'58 1.45348 AU	asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	9078 Jan 03 21:26 9078 Jan 04 04:48 9078 Jan 06 13:42 9078 Jan 13 03:18 9078 Jan 27 07:15 9078 Jan 29 11:22 9078 Feb 07 05:39 9078 Feb 10 19:27 9078 Feb 10 16:40 9078 Feb 14 02:02 9078 Feb 16 21:25 9078 Feb 26 04:56 9078 Mar 05 09:29 9078 Mar 27 11:20 9078 Mar 27 06:50	5°♂57'16 5°♂49'56 5°♂49'56 5°♂22'51 8°♂46'18 0°≈ 3°≈45'20 18°≈43'29 24°≈39'34 24°≈28'08 0° \tau 4°\tau30'33 19°\tau64'49 0°\tau 0°\tau 0°\tau 29°\tau48'40	17°47'48 -0°26'07 0°25'31
asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	9077 Jan 14 01:44 9077 Jan 17 00:22 9077 Jan 20 08:15 9077 Jan 22 23:49 9077 Jan 29 09:53 9077 Feb 02 18:15 9077 Feb 16 07:05 9077 Feb 20 08:46 9077 Feb 21 12:52 9077 Mar 02 14:21 9077 Mar 02 06:28 9077 Mar 06 03:12 9077 Mar 12 10:40 9077 Mar 18 17:45	27°る27'54 24°る23'58 22°る01'30 21°る24'13 24°る47'19 0°≈ 21°≈23'46 28°≈05'13 0°升 14°升34'11 14°升02'56 20°升08'54 0°Ƴ 9°Ƴ44'17	0°59'33 18°00'25 -1°10'03 1°08'58 1.45348 AU	asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	9078 Jan 03 21:26 9078 Jan 04 04:48 9078 Jan 06 13:42 9078 Jan 13 03:18 9078 Jan 27 07:15 9078 Jan 29 11:22 9078 Feb 07 05:39 9078 Feb 10 19:27 9078 Feb 10 16:40 9078 Feb 14 02:02 9078 Feb 16 21:25 9078 Feb 26 04:56 9078 Mar 05 09:29 9078 Mar 27 11:20	5°♂57'16 5°♂49'56 5°♂22'51 8°♂46'18 0°≈ 3°≈45'20 18°≈43'29 24°≈39'34 24°≈28'08 0°¥ 4°¥30'33 19°¥04'49 0°Ŷ	17°47'48 -0°26'07 0°25'31 1.44434 AU

ovening set	9078 Apr 08 16:03	3° 8 04'12		evening max el	9079 Mar 10 02:21	13° Y 30'30	22000110
evening set	9078 Apr 11 15:30	30°RY		retrograde	9079 Mar 10 02:21 9079 Mar 19 11:16	19° Υ 03'25	22 00 10
infarior aoni	9078 Apr 13 23:15	30 K 1 26° Y 54'37	3°04'50	asc. node	9079 Mar 19 17:18	19 1 03 23 19° ℃ 03'06	
inferior conj		20° 73437 27° $900'12$	3°04'29	evening set		19 Y 03 06 17° Υ 12'35	
minimum elong	9078 Apr 13 21:38			-	9079 Mar 24 00:10	$1/^{\circ}$ \ \ \ \ 12'33	2040147
min. Earth dist.	9078 Apr 14 12:05	26° Y 10′22	0.68068 AU	inferior conj	9079 Mar 29 07:42		
morning rise	9078 Apr 19 02:59	20° Y 39'00		minimum elong	9079 Mar 29 05:35	11° Υ 00'15	2°40'16
direct	9078 Apr 24 13:34	18° Y 14'14		min. Earth dist.	9079 Mar 29 07:45	10° Y 52'42	0.68466 AU
morning max el	9078 May 05 11:11	24° Y 44'58	23°54'21	morning rise	9079 Apr 03 10:51	4° Υ 41'29	
desc. node	9078 May 06 05:43	25° Y 32'40		direct	9079 Apr 08 07:32	2° Y 36'52	
	9078 May 10 04:33	0. R		morning max el	9079 Apr 17 22:14	8° ℃ 16'08	22°24'58
	9078 May 31 10:07	$\Pi^{\circ 0}$		desc. node	9079 Apr 23 02:38	14° Y 06′19	
morning set	9078 Jun 09 21:41	15° ∏ 34'24			9079 May 04 20:12	0°8	
max. Earth dist.	9078 Jun 13 16:21	22° ∏ 09'32	1.38474 AU	morning set	9079 May 21 13:45	25° 8 44'15	
	9078 Jun 18 00:20	0ංම			9079 May 24 03:57	$\Pi^{\circ}0$	
				max. Earth dist.	9079 May 26 14:24	4° ∏ 04'49	1.40731 AU
superior conj	9078 Jun 21 00:39	5° © 38'01					
minimum elong	9078 Jun 21 05:09	5° © 59'20	1°10'16	superior conj	9079 Jun 03 09:18	17° Ⅱ 38'55	
asc. node	9078 Jun 28 19:06	20°5541'44		minimum elong	9079 Jun 03 15:16	18° Ⅱ 05'43	1°40'08
evening rise	9078 Jun 30 01:14	23° 5 09'31			9079 Jun 10 02:52	0	
	9078 Jul 03 13:58	0 \circ Ω		evening rise	9079 Jun 13 14:07	6° ॐ 30'32	
evening max el	9078 Jul 16 09:31	19° Ω 42'58	18°54'58	asc. node	9079 Jun 15 16:09	10° © 24'48	
retrograde	9078 Jul 24 22:54	23° Ω 57'51			9079 Jun 27 15:23	$0^{\circ}\Omega$	
evening set	9078 Jul 26 21:32	23° Ω 45'34		evening max el	9079 Jun 29 15:31	2° Ω 12'34	18°20'21
desc. node	9078 Aug 02 04:58	20° Ω 47'21		retrograde	9079 Jul 07 00:20	5° Ω 54'25	
inferior conj	9078 Aug 04 02:50	19° Ω 28′09	-0°35'10	evening set	9079 Jul 09 05:39	5° Ω 35'03	
minimum elong	9078 Aug 04 01:22	19° Ω 30'46	0°34'48	inferior conj	9079 Jul 16 15:15	0° Ω 57'21	1°00'42
min. Earth dist.	9078 Aug 07 03:46	17° Ω 19'52	0.56620 AU	minimum elong	9079 Jul 16 17:14	0° Ω 53'13	0°59'46
morning rise	9078 Aug 12 01:57	14° £ 32′00			9079 Jul 17 18:41	30° ₹ 5	
direct	9078 Aug 17 12:51	13° Ω 21'11		min. Earth dist.	9079 Jul 20 00:20	28° © 10'13	0.58612 AU
morning max el	9078 Aug 31 18:54	20° Ω 42'39	26°06'33	desc. node	9079 Jul 20 02:03	28° © 06'52	
	9078 Sep 08 19:41	0° m)		morning rise	9079 Jul 24 01:29	25°\$26'07	
asc. node	9078 Sep 24 18:52	26° m/42'04		direct	9079 Jul 30 05:17	23°545'15	
	9078 Sep 26 10:00	0∘ ত			9079 Aug 12 00:18	$0^{\circ}\Omega$	
morning set	9078 Sep 29 00:40	5° £ 27'48		morning max el	9079 Aug 13 14:37	1° Ω 29'51	27°17'42
Ü	1			S	9079 Sep 03 01:44	0° m/y	
superior conj	9078 Oct 05 21:35	20° £ 30'59	1°31'15	asc. node	9079 Sep 11 15:49	16° m/26'22	
minimum elong	9078 Oct 05 19:51	20° ₽ 21'22	1°31'10	morning set	9079 Sep 13 09:09	20° m 01'48	
max. Earth dist.	9078 Oct 06 17:02	22° ₽ 18'34	1.31886 AU	. 8	9079 Sep 17 23:45	0∘ ⊽	
	9078 Oct 10 05:21	0° M					
evening rise	9078 Oct 12 20:39	5°M36'45		superior conj	9079 Sep 20 09:24	5° ≏ 19'32	1°18'12
8	9078 Oct 25 19:24	0° ∡ ¹		minimum elong	9079 Sep 20 07:13		1°17'54
desc. node	9078 Oct 29 03:27	5° ×7 21'13		max. Earth dist.	9079 Sep 20 02:58	4° £ 43'47	1.31584 AU
evening max el	9078 Nov 13 12:11	24° х 46'15	27°17'01	evening rise	9079 Sep 27 03:53	20° ♀ 10'19	
o vonning man or	9078 Nov 20 10:20	0°ਰ	2, 1, 01	evening rise	9079 Oct 01 22:31	0°M	
retrograde	9078 Nov 27 08:44	1° る 58'44		desc. node	9079 Oct 16 00:35	24°M00'02	
2011-08-1111-0	9078 Dec 03 23:06	30°R ✓			9079 Oct 20 12:57	0° ⊼ ¹	
evening set	9078 Dec 04 09:51	29° ×7 43'36		evening max el	9079 Oct 26 13:16	6° х 34′16	26°30'25
min. Earth dist.	9078 Dec 08 02:44		0.61415 AU	retrograde	9079 Nov 09 11:16	13° × ⁷ 40'45	20 30 23
inferior conj	9078 Dec 11 04:00	24° × 14'13		evening set	9079 Nov 16 03:34	11° х 4043	
minimum elong	9078 Dec 11 10:27	23° × ⁷ 59'55		min. Earth dist.	9079 Nov 20 02:47		0.59315 AU
morning rise	9078 Dec 18 13:24	19°×717'13	3 10 33	inferior conj	9079 Nov 23 07:24	6° ₹ 1339	
direct	9078 Dec 20 18:25	18° ₹ 56'42		minimum elong	9079 Nov 23 14:58	6°×733'21	
asc. node	9078 Dec 20 18:29	19° × 01'04		morning rise	9079 Dec 01 04:48	2°×13'02	7 2/1)
morning max el	9078 Dec 27 19:12	22° × ⁷ 29'25	17°53'28	direct	9079 Dec 03 09:39	1°×755'53	
morning max ci	9078 Dec 27 19:12 9079 Jan 02 15:11	0°る	17 33 26	asc. node	9079 Dec 03 09:39 9079 Dec 08 15:31	3° × ⁷ 39'14	
morning sat	9079 Jan 12 11:30	0 3 17° る 03'15		morning max el	9079 Dec 08 13.31 9079 Dec 11 06:00	5° ₹ '46'58	18°18'41
morning set	9079 Jan 12 11:30 9079 Jan 19 16:05	0°≈		morning max ci	9079 Dec 26 13:03	0°る	10 10 41
	7017 Jan 17 10.03	U ~~		morning set	9079 Dec 26 13:03 9079 Dec 27 01:33	0°る59'25	
superior con:	9079 Jan 23 02:07	5°≈58'42	0°15'05	morning set	70/7 Dec 2/ 01:33	0 039723	
superior conj	9079 Jan 23 02:07 9079 Jan 23 03:26			superior comi	9080 Jan 05 08:01	18° る 23'51	0°48'49
minimum elong		6°≈04'26	0 15 00	superior conj			
behind sun begin	9079 Jan 23 00:38	5°≈52'21		minimum elong	9080 Jan 05 11:08	18°る38'05	0°48'37
behind sun end	9079 Jan 23 06:14	6°≈16'29		desc. node	9080 Jan 11 23:35	0°≈11'08	
desc. node	9079 Jan 25 02:37	9°≈26'47	1 42004 433		9080 Jan 11 20:59	0°≈	1 40022 411
max. Earth dist.	9079 Jan 30 12:17	18°≈28'35	1.42904 AU	max. Earth dist.	9080 Jan 12 22:03	1°≈47'23	1.40933 AU
evening rise	9079 Feb 05 23:37	28°≈51'49		evening rise	9080 Jan 17 12:32	9°≈29'15	
	9079 Feb 06 17:00	0° ∀		•	9080 Jan 30 17:29	0°) (14122	22010140
	9079 Feb 27 01:42	0° Y		evening max el	9080 Feb 20 17:48	27° ∺ 14'22	25~19'49

	9080 Feb 23 18:11	0° Υ		ratragrada	9081 Feb 13 21:43	17°) 48'14	
rotro aro do		0 γ 3° Υ 27'51		retrograde		17 X 48 14 15° ¥ 29'57	
retrograde	9080 Mar 02 06:22			evening set	9081 Feb 19 10:27		
asc. node	9080 Mar 05 14:26	2°Υ33'29		asc. node	9081 Feb 20 11:32	14°) €31'47	0.67000 444
evening set	9080 Mar 07 06:48	1° Υ 22'28		min. Earth dist.	9081 Feb 24 00:11	10° ¥ 18'56	0.67999 AU
	9080 Mar 08 17:03	30° ₹		inferior conj	9081 Feb 24 23:40	9°) €00'45	1°25'30
min. Earth dist.	9080 Mar 12 04:31	25°) ₹36′58	0.68436 AU	minimum elong	9081 Feb 24 21:51	9°) €06'48	1°24'56
inferior conj	9080 Mar 12 16:27	24° ¥ 55'50	2°07'30	morning rise	9081 Mar 02 09:25	3° 米 01'42	
minimum elong	9080 Mar 12 14:15	25°) €03'27	2°06'52	direct	9081 Mar 06 03:30	1°) 40′56	
morning rise	9080 Mar 17 21:39	18°) (49′56		morning max el	9081 Mar 13 14:19	5° ∺ 51'10	19°50'49
direct	9080 Mar 22 04:35	17° ₩ 07'29		greatest brilliancy	9081 Mar 26 15:25	22°) 48′31	-0.6m
morning max el	9080 Mar 30 14:32	21°)(57'41	21°01'53	desc. node	9081 Mar 26 20:27	23°) €06'57	
-	9080 Apr 06 11:07	$0^{\circ}\mathbf{Y}$			9081 Mar 31 11:39	$0^{\circ}\mathbf{\Upsilon}$	
desc. node	9080 Apr 08 23:33	3° Y 21′25		morning set	9081 Apr 09 01:20	13° Y '03'04	
	9080 Apr 27 02:39	0°8			9081 Apr 19 21:40	0°8	
morning set	9080 Apr 30 03:10	4° 8 41'57		max. Earth dist.	9081 Apr 20 04:34	0° 8 27'25	1.44375 AU
max. Earth dist.	9080 May 07 18:01	16° 8 51'48	1.42779 AU	max. Larm dist.	7001 Apr 20 04.54	0 027 23	1.44575710
max. Earm dist.	9000 May 07 18.01	10 03146	1.42//9 AU	gumariar aoni	0001 Apr. 25 06:40	8° 8 37'50	2012124
	000034 14 20 10	200 4 40100	2002112	superior conj	9081 Apr 25 06:49		
superior conj	9080 May 14 20:19	28° 8 40'08		minimum elong	9081 Apr 25 06:57	8° 8 38'20	2°12'33
minimum elong	9080 May 15 01:23	29° 8 01'43	2°03'07		9081 May 08 03:01	0∘Щ	
	9080 May 15 15:04	$\Pi^{\circ}0$		evening rise	9081 May 08 16:20	0° Ⅱ 56'39	
evening rise	9080 May 26 12:43	19° Ⅱ 09'37		asc. node	9081 May 19 10:13	18° Ⅱ 52'31	
asc. node	9080 Jun 01 13:11	29° ∏ 50′24		evening max el	9081 May 26 16:31	28° Ⅱ 29'44	18°10'01
	9080 Jun 01 15:24	0 \circ \odot			9081 May 28 09:31	0 \circ \odot	
evening max el	9080 Jun 12 03:02	15° © 11'07	18°05'42	retrograde	9081 Jun 02 01:36	1° © 50'54	
retrograde	9080 Jun 18 18:43	18° © 35'17		evening set	9081 Jun 04 22:10	1° 5 08'25	
evening set	9080 Jun 21 07:40	18° © 05'33			9081 Jun 06 17:54	30°R Ⅱ	
inferior conj	9080 Jun 27 23:54	13° © 07'56	2°09'33	inferior conj	9081 Jun 11 00:56	25° II 52'13	2°52'56
minimum elong	9080 Jun 28 02:52	13°500'48	2°08'29	minimum elong	9081 Jun 11 03:18	25° I I45'46	2°52'14
min. Earth dist.	9080 Jul 01 04:46	10°504'24	0.60853 AU	min. Earth dist.	9081 Jun 13 18:07	22° I 55'46	0.63056 AU
morning rise	9080 Jul 04 19:29	7° © 11'34	0.00033710	morning rise	9081 Jun 17 06:50	19° ∏ 41'23	0.05050710
•		6°929'59		•		19 Ⅱ 41 23 17° Ⅱ 12'23	
desc. node	9080 Jul 05 23:07			desc. node	9081 Jun 22 20:10		
direct	9080 Jul 11 10:08	5°900'36		direct	9081 Jun 24 00:51	17° Ⅱ 07'47	
morning max el	9080 Jul 25 17:09	12° © 59'36	27°53'00	morning max el	9081 Jul 08 00:39	25° Ⅱ 10'53	27°49'56
	9080 Aug 08 05:56	$0 ^{\circ} \Omega$			9081 Jul 12 10:14	0ංඔ	
	9080 Aug 25 10:10	0° m p			9081 Aug 01 17:28	0 \circ Ω	
morning set	9080 Aug 27 13:18	4° Mp 20′43		morning set	9081 Aug 11 10:52	18° Ω 17'20	
asc. node	9080 Aug 28 12:46	6° Mp 22′53		asc. node	9081 Aug 15 09:41	26° Ω 26′04	
max. Earth dist.	9080 Sep 02 11:49	17° m 03'13	1.31746 AU	max. Earth dist.	9081 Aug 16 15:39	29° Ω 04'58	1.32394 AU
					9081 Aug 17 01:57	0° m y	
superior conj	9080 Sep 03 20:17	20° m 01'55	1°00'07		•	•	
minimum elong	9080 Sep 03 18:06	19° m 49'53	0°59'40	superior conj	9081 Aug 19 04:18	4° mp 31'30	0°37'20
8	9080 Sep 08 08:42	0∘ ⊽		minimum elong	9081 Aug 19 02:39	4° m) 22'35	0°36'53
evening rise	9080 Sep 10 14:15	ა _ 4° ჲ 50'31		evening rise	9081 Aug 26 01:48	19° m y 30'41	0 30 33
evening rise	9080 Sep 10 14:13 9080 Sep 23 18:44	0° ™		evening rise	9081 Aug 31 03:40	0 ்⊽	
1 1-	•				•		22927112
desc. node	9080 Oct 01 21:43	11°M39'02	2.501.010.4	evening max el	9081 Sep 18 17:47	27° £ 51'32	23-37-13
evening max el	9080 Oct 07 06:17	17°M31'54	25°13'24	desc. node	9081 Sep 18 18:51	27° ≏ 54'06	
retrograde	9080 Oct 21 03:33	24°M31'58		_	9081 Sep 21 03:33	0° M	
evening set	9080 Oct 26 22:37	23°M15'20		retrograde	9081 Oct 02 07:10	4° M ₊38'01	
min. Earth dist.	9080 Oct 31 18:08	20°M35'01	0.57309 AU	evening set	9081 Oct 06 17:13	3°M55'26	
inferior conj	9080 Nov 03 15:30	18° ™ 38'40	-5°21'23	min. Earth dist.	9081 Oct 13 03:57	0°M51'23	0.55695 AU
minimum elong	9080 Nov 03 20:56	18°M29'31	5°20'29		9081 Oct 14 14:33	30° ₽ Ω	
morning rise	9080 Nov 11 21:35	14°M26'23		inferior conj	9081 Oct 15 03:20	29° ₽ 40'52	-5°38'32
direct	9080 Nov 14 07:10	14°M09'28		minimum elong	9081 Oct 15 02:14	29° ≏ 42'31	5°38'24
morning max el	9080 Nov 23 08:00	18°M28'48	19°05'06	morning rise	9081 Oct 23 13:15	25° ≏ 46'52	
asc. node	9080 Nov 24 12:32	19° M 41'25		direct	9081 Oct 26 09:28	25° ≏ 26'52	
	9080 Dec 01 20:26	0° ⊼			9081 Nov 05 11:26	0° M ₊	
morning set	9080 Dec 10 01:08	15° ₹ 21'14		morning max el	9081 Nov 05 11:26	0°M23'52	20°14'03
morning set		0°පි		•			20 14 03
	9080 Dec 17 11:19	v O		asc. node	9081 Nov 11 09:32	6°M51'16	
	0000 5 10 00 10	107	101244	morning set	9081 Nov 24 06:58	29°M58'43	
superior conj	9080 Dec 18 08:12	1°る40'49	1°13'46		9081 Nov 24 07:14	0° ∡ ¹	
minimum elong	9080 Dec 18 11:21	1° る 55'57					
max. Earth dist.	9080 Dec 25 03:55	14° る 22'41	1.38764 AU	superior conj	9081 Dec 01 21:49	15° ∡ ³35′00	1°30'12
evening rise	9080 Dec 28 23:21	21° る 05'03		minimum elong	9081 Dec 02 00:03	15° ∡ ¹46'15	1°30'16
desc. node	0000 D 20 20 25	20° ප 53'07		max. Earth dist.	9081 Dec 07 10:38	26° ₹ ¹26'42	1.36643 AU
	9080 Dec 28 20:35	20 03307		max. Earth dist.	7001 200 07 10.50		1.500.5110
	9080 Dec 28 20:35 9081 Jan 03 06:57	0°≈		max. Dartii dist.	9081 Dec 09 07:56	ರ∘ರ	1.500.5110
				evening rise		0°궁 3° 궁 33'22	1.500 15 110
evening max el	9081 Jan 03 06:57	0° ≈	24°38'57		9081 Dec 09 07:56		1.500.5110

	9081 Dec 27 07:01	0°≈	25250120		9082 Dec 01 12:37	0°る	
evening max el	9082 Jan 15 20:37	24°≈50′20	25°50'39	desc. node	9082 Dec 02 14:36	1°る51'21	
	9082 Jan 22 06:32	0°) (50)25			9082 Dec 21 16:55	0° ≈	2 60 4512 6
retrograde	9082 Jan 28 08:18	1° ¥ 58′25		evening max el	9082 Dec 29 10:02	8°≈33'01	26°47'26
	9082 Feb 02 18:11	30°R≈		retrograde	9083 Jan 11 13:12	15°≈51'46	
evening set	9082 Feb 03 09:27	29°≈29'53		evening set	9083 Jan 18 01:55	13°≈17'10	0.65050.444
asc. node	9082 Feb 07 08:39	25°≈17'35	0.68180.431	min. Earth dist.	9083 Jan 22 02:54	9°≈15'22	0.65970 AU
min. Earth dist.	9082 Feb 07 16:25	24°≈53'32		inferior conj	9083 Jan 24 01:36	6°≈58'52	
inferior conj	9082 Feb 09 03:24	23°≈03'17	0°35'03	minimum elong	9083 Jan 24 02:15	6° ≈ 56'56	0°23'00
minimum elong	9082 Feb 09 02:32	23°≈06'03	0°34'51	asc. node	9083 Jan 25 05:45	5° ≈ 37'34	
morning rise	9082 Feb 14 20:09	17° ≈ 13′03		morning rise	9083 Jan 30 03:38	1° ≈ 19'51	
direct	9082 Feb 18 02:42	16° ≈ 11'43		direct	9083 Feb 02 00:14	0° ≈ 34'47	
morning max el	9082 Feb 24 21:46	19° ≈ 54'12	18°54'56	morning max el	9083 Feb 08 11:17	4° ≈ 01'29	18°15'28
	9082 Mar 04 22:26	0° ∀			9083 Feb 26 08:08	0° ∀	
desc. node	9082 Mar 13 17:21	13°) (14′29		morning set	9083 Feb 27 16:53	2° 米 11'45	
morning set	9082 Mar 19 07:58	21° ¥ 56′54		desc. node	9083 Feb 28 14:14	3° ∺ 37'33	
	9082 Mar 24 12:00	0 ° Υ					
max. Earth dist.	9082 Apr 02 21:13	14° Y 39'51	1.45334 AU	superior conj	9083 Mar 15 01:19	26°) 34′59	-1°33'10
				minimum elong	9083 Mar 14 15:48	25° 升 57'38	1°32'10
superior conj	9082 Apr 04 20:03	17° Ƴ 43'50	-2°02'33	max. Earth dist.	9083 Mar 16 16:56	29° ∺ 10′11	1.45560 AU
minimum elong	9082 Apr 04 13:04	17° Ƴ 16′23	2°02'15		9083 Mar 17 05:40	0 ° Υ	
	9082 Apr 12 13:51	$8^{\circ 0}$		evening rise	9083 Mar 31 02:44	21° Y ′40'07	
evening rise	9082 Apr 19 21:03	11° 8 45'35			9083 Apr 05 10:51	9° 8	
	9082 May 01 05:27	Π $^{\circ}0$		greatest brilliancy	9083 Apr 11 09:26	9° 8 10'39	-0.7m
asc. node	9082 May 06 07:17	7° Ⅲ 23'43		asc. node	9083 Apr 23 04:24	25° 8 13'26	
evening max el	9082 May 10 05:02	12° Ⅲ 01′10	18°32'34	evening max el	9083 Apr 23 14:04	25° 8 38'18	19°12'27
retrograde	9082 May 16 16:58	15° Ⅲ 33′04		retrograde	9083 Apr 30 13:17	29° 8 33'34	
evening set	9082 May 19 21:06	14° ∏ 36′26		evening set	9083 May 04 01:20	28° 8 22'03	
inferior conj	9082 May 25 14:18	9° Ⅱ 03'01	3°15'25	inferior conj	9083 May 09 12:26	22° 8 32'58	3°21'23
minimum elong	9082 May 25 15:27	8° Ⅱ 59'31	3°15'03	minimum elong	9083 May 09 12:20	22° 8 33'18	3°21'11
min. Earth dist.	9082 May 27 16:35	6° Ⅱ 32'25	0.64994 AU	min. Earth dist.	9083 May 10 23:26	20° 8 39'58	0.66537 AU
morning rise	9082 May 31 08:59	2° Ⅱ 45'36		morning rise	9083 May 14 22:55	16° 8 13'56	
direct	9082 Jun 06 23:30	0° Ⅱ 00'53		direct	9083 May 21 04:45	13° 8 29'47	
desc. node	9082 Jun 09 17:11	0°Щ25'37		desc. node	9083 May 27 14:11	15° 8 44'24	
morning max el	9082 Jun 20 10:45	7° П 56'18	27°12'18	morning max el	9083 Jun 02 21:11	21° 8 03'57	26°07'40
morning max or	9082 Jul 07 12:51	0°95	27 12 10	morning max or	9083 Jun 10 14:34	0°Ⅱ	20 07 10
	9082 Jul 25 01:27	$0^{\circ}\Omega$			9083 Jun 30 17:19	0° ©	
morning set	9082 Jul 25 23:10	1° Ω 44'44		morning set	9083 Jul 08 22:41	14° © 33'10	
max. Earth dist.	9082 Jul 30 11:01		1.33544 AU	max. Earth dist.	9083 Jul 12 19:56		1.35172 AU
asc. node	9082 Jul 30 11:01 9082 Aug 02 06:37	16° £ 32'06	1.55544 AU	max. Earth dist.	9083 Jul 16 21:53	0°Ω	1.55172 AO
asc. node	9082 Aug 02 00.37	10 663200			9003 Jul 10 21.33	0 86	
superior conj	9082 Aug 03 07:26	18° Ω 42'44	0°10'22	superior conj	9083 Jul 18 03:09	2° Ω 28'27	0010150
minimum elong	9082 Aug 03 06:54	18° Ω 39'57	0°10'22	minimum elong	9083 Jul 18 04:20	2° Ω 34'24	
behind sun begin	9082 Aug 03 00:34 9082 Aug 03 02:32	18° Ω 16'53	0 10 03	asc. node	9083 Jul 20 03:33	6°Ω36'44	0 1936
behind sun end	9082 Aug 03 11:16	19° Ω 03'03		evening rise	9083 Jul 25 20:53	18° Ω 29'23	
ocimia sun cha	9082 Aug 08 14:25	0° m		evening rise	9083 Jul 31 15:28	0° m)	
ovening rice	9082 Aug 10 12:41			ovanina may al		18° Mp 43'59	20°31'34
evening rise	9082 Aug 10 12:41 9082 Aug 24 15:59	4° ₯ 05'45 0° ௨		evening max el desc. node	9083 Aug 13 07:20 9083 Aug 23 13:06	24° M) 13'29	40 3134
avaning may al	Č		21050124	retrograde	•		
evening max el desc. node	9082 Aug 31 07:23	8° Ω 04'16	21 30 24	C	9083 Aug 24 11:03	24° Mp 15'38	
retrograde	9082 Sep 05 15:58 9082 Sep 12 22:55	12° £ 15'36 14° £ 21'33		evening set inferior conj	9083 Aug 26 12:17 9083 Sep 04 16:20	24° Mp 05'12 20° Mp 08'07	202/1/1
•	•				-	-	
evening set	9082 Sep 15 22:04	14° £ 01'56	5002150	minimum elong	9083 Sep 04 07:11	20° m) 21'20	
inferior conj	9082 Sep 24 23:37	10° Ω 02'08		min. Earth dist.	9083 Sep 05 20:44	19° Mp 27'03	0.54776 AU
minimum elong	9082 Sep 24 15:23	10° £ 13'38		morning rise	9083 Sep 13 01:41	16° Mp 05'41	
min. Earth dist.	9082 Sep 24 11:45		0.54781 AU	direct	9083 Sep 17 05:36	15° Tp 28'32	22220145
morning rise	9082 Oct 03 10:07	6° Ω 14'13		morning max el	9083 Sep 30 13:01	21° m 54'19	23°28'47
direct	9082 Oct 06 21:08	5° Ω 47'49		_	9083 Oct 07 14:02	0∘ ত	
morning max el	9082 Oct 18 22:13	11° Ω 28'39	21°44'18	asc. node	9083 Oct 16 03:27	13° Ω 36'45	
asc. node	9082 Oct 29 06:30	24° £ 53'57		morning set	9083 Oct 24 04:09	29° ₽ 34'27	
	9082 Nov 01 05:20	0°M			9083 Oct 24 08:57	0° M	
morning set	9082 Nov 08 16:38	14°M45'01					
				superior conj	9083 Oct 31 02:37	14° M 33′12	
superior conj	9082 Nov 15 20:59	29°M55'28	1°38'54	minimum elong	9083 Oct 31 02:21	14° M 31'45	1°40'53
minimum elong	9082 Nov 15 21:57	0° ≯ 00'34	1°39'06	max. Earth dist.	9083 Nov 02 19:33	20°M20'16	1.33288 AU
	9082 Nov 15 21:51	0°⊀		evening rise	9083 Nov 07 18:06	0° ∡ 30′20	
max. Earth dist.	9082 Nov 19 23:06	8° ≯ 20′23	1.34775 AU		9083 Nov 07 12:02	0° ∡	
evening rise	9082 Nov 24 05:48	16° ≯ 45′00		desc. node	9083 Nov 19 11:39	21° ₹ 57'26	

	9083 Nov 24 12:50	0°ರ		evening rise	9084 Oct 21 15:52	14° M 40'19	
evening max el	9083 Dec 11 22:45	21° 云 59'43	27°22'10	evening rise	9084 Oct 29 13:15	0° √	
retrograde	9083 Dec 25 12:04	29° ට 20'41	_,	desc. node	9084 Nov 05 08:45	11° ∡ ³38′09	
evening set	9084 Jan 01 09:42	26° පි 46'20			9084 Nov 18 15:44	0°る	
min. Earth dist.	9084 Jan 05 05:29	23° る 17'37	0.64419 AU	evening max el	9084 Nov 23 08:55	4° る 57'17	27°28'23
inferior conj	9084 Jan 07 15:51	20°る42'20		retrograde	9084 Dec 07 04:05	12° る 14'34	_, _, _,
minimum elong	9084 Jan 07 18:37	20° පි 35'00		evening set	9084 Dec 14 05:49	9° る 49'23	
asc. node	9084 Jan 12 02:51	16° පි 30'42		min. Earth dist.	9084 Dec 17 22:29		0.62567 AU
morning rise	9084 Jan 14 05:11	15° る 17'22		inferior conj	9084 Dec 20 19:14	4° る 05'36	-2°40'00
direct	9084 Jan 16 17:42	14° ♂ 44'51		minimum elong	9084 Dec 21 00:24	3° ⋜ 53'16	2°37'45
morning max el	9084 Jan 23 04:16	18° පි 06'39	17°52'58	C	9084 Dec 25 17:47	30°₽ ⋌	
	9084 Jan 31 22:22	0° ≈		morning rise	9084 Dec 27 21:13	28° ∡ 57'38	
morning set	9084 Feb 09 06:52	13° ≈ 52'21		asc. node	9084 Dec 28 23:56	28° ∡ ⁴40'12	
desc. node	9084 Feb 15 11:08	24°≈11'47		direct	9084 Dec 30 03:59	28° ∡ ³33'54	
	9084 Feb 18 23:55	0° ∀			9085 Jan 03 11:16	0°ප	
				morning max el	9085 Jan 05 21:32	2° る 00'18	17°48'00
superior conj	9084 Feb 22 17:54	6°) €04'04	-0°51'34	morning set	9085 Jan 21 20:24	26° ප් 40'05	
minimum elong	9084 Feb 22 12:05	5°) 40′42	0°50'38		9085 Jan 23 17:41	0° ≈	
max. Earth dist.	9084 Feb 27 12:32	13°) 40′18	1.45042 AU	desc. node	9085 Feb 01 08:03	14° ≈ 52'35	
	9084 Mar 09 00:21	0 ° $\mathbf{\Upsilon}$					
evening rise	9084 Mar 09 16:46	1° Ƴ 03'05		superior conj	9085 Feb 02 09:50	16° ≈ 41′09	-0°07'58
greatest brilliancy	9084 Mar 24 14:52	23° Y 30'55	-0.6m	minimum elong	9085 Feb 02 09:04	16° ≈ 37'54	0°07'40
	9084 Mar 29 04:27	8°		behind sun begin	9085 Feb 02 01:05	16° ≈ 04'20	
evening max el	9084 Apr 05 18:01	9° 8 17'52	20°08'02	behind sun end	9085 Feb 02 17:04	17° ≈ 11'25	
asc. node	9084 Apr 09 01:31	12° 8 09'23		max. Earth dist.	9085 Feb 09 05:08	27° ≈ 52'12	1.43845 AU
retrograde	9084 Apr 13 11:48	13° 8 46'49			9085 Feb 10 12:59	0°) €	
evening set	9084 Apr 17 08:33	12° 8 20'08		evening rise	9085 Feb 17 05:20	10°) € 30′25	
inferior conj	9084 Apr 22 16:28	6° 8 17'14	3°14'08		9085 Mar 02 04:17	0 ° Υ	
minimum elong	9084 Apr 22 15:18	6° 8 21'10	3°13'52	evening max el	9085 Mar 19 16:25	22° Y ′58'30	21°16'34
min. Earth dist.	9084 Apr 23 13:03	5° 8 07'24	0.67639 AU	asc. node	9085 Mar 26 22:40	27° Y ′56'34	
morning rise	9084 Apr 27 21:48	29° Ƴ 59'35		retrograde	9085 Mar 28 10:14	28° Ƴ 07'39	
	9084 Apr 27 21:37	30° ₹Ƴ		evening set	9085 Apr 01 16:49	26° Ƴ 25'45	
direct	9084 May 03 15:50	27° Y 25'42		inferior conj	9085 Apr 06 23:55	20° Y 11′23	2°55'49
	9084 May 10 06:00	0°8		minimum elong	9085 Apr 06 22:02		2°55'24
desc. node	9084 May 13 11:09	2° 8 38'12		min. Earth dist.	9085 Apr 07 07:14	19° Ƴ 45'57	0.68291 AU
morning max el	9084 May 15 06:48	4° 8 23'52	24°45'27	morning rise	9085 Apr 12 03:03	13° Y ′57'07	
	9084 Jun 03 22:17	Π $^{\circ}0$		direct	9085 Apr 17 07:42	11° Y '40'25	
morning set	9084 Jun 20 04:50	26° Ⅱ 30'57		morning max el	9085 Apr 27 16:23	17° Y ′50'16	23°15'54
	9084 Jun 22 03:45	0ංම		desc. node	9085 Apr 30 08:05	20° Ƴ 41′00	
max. Earth dist.	9084 Jun 23 19:35	3° © 00'44	1.37196 AU		9085 May 07 19:42	0°8	
					9085 May 28 00:18	Π $\circ 0$	
superior conj	9084 Jun 30 12:26	15° 5 41'06	-0°52'11	morning set	9085 Jun 01 12:13	7° Ⅲ 23'49	
minimum elong	9084 Jun 30 15:42	15° © 57'05	0°51'52	max. Earth dist.	9085 Jun 05 15:34	14° Ⅲ 27′21	1.39439 AU
asc. node	9084 Jul 06 00:32	26° © 36'18					
	9084 Jul 07 17:05	$0^{\circ}\Omega$		superior conj	9085 Jun 13 07:23	28° Ⅱ 11'30	
evening rise	9084 Jul 09 00:01	2° Ω 35′09		minimum elong	9085 Jun 13 12:40	28° Ⅲ 35'58	1°23'27
	9084 Jul 25 17:20	O° m p			9085 Jun 14 06:45	0	
evening max el	9084 Jul 25 20:53	0° m ,08′50	19°24'09	evening rise	9085 Jun 22 19:09	16° © 15'11	
retrograde	9084 Aug 04 07:50	4° ™ 49'39		asc. node	9085 Jun 22 21:33	16° © 26'47	
evening set	9084 Aug 06 04:08	4° m 39'42			9085 Jun 30 04:25	0 ° Ω	
desc. node	9084 Aug 09 10:14	3° Mp 38'20		evening max el	9085 Jul 08 22:05	12° Ω 18′04	18°37'48
inferior conj	9084 Aug 14 20:08	0° mp 32'34		retrograde	9085 Jul 16 21:58	16° Ω 16'49	
minimum elong	9084 Aug 14 15:39	0° т у39'52	1°38'24	evening set	9085 Jul 18 23:06	16° Ω 02'03	
	9084 Aug 15 16:06	30°R Ω		inferior conj	9085 Jul 26 20:00	11° Ω 36'34	0°08'35
min. Earth dist.	9084 Aug 17 09:12	28° Ω 53'42	0.55714 AU	minimum elong	9085 Jul 26 20:20	11° Ω 35'58	0°08'15
morning rise	9084 Aug 23 00:29	25° Ω 57'34		transit middle	9085 Jul 26 20:20	11° Ω 35'58	0°08'15
direct	9084 Aug 27 23:51	25° Ω 01'31		transit begin	9085 Jul 26 17:12	11° Ω 41'52	
	9084 Sep 08 15:58	0° m/	0.501.511.5	transit end	9085 Jul 26 23:27	11° Ω 30'02	
morning max el	9084 Sep 11 01:14	2° Mp 06'27	25°13'15	desc. node	9085 Jul 27 07:22	11° Ω 14'59	0.55.11.
	9084 Sep 30 12:53	0° ⊽		min. Earth dist.	9085 Jul 30 02:26	9° Ω 09'03	0.57414 AU
asc. node	9084 Oct 02 00:23	2° £ 49'30		morning rise	9085 Aug 03 14:02	6° Ω 24'31	
morning set	9084 Oct 07 15:46	14° £ 21'33		direct	9085 Aug 09 08:53	5° Ω 01'00	0.00.000
	0004.0	000 0 000	100/15	morning max el	9085 Aug 23 17:04	12° Ω 34'09	26°40'41
superior conj	9084 Oct 14 12:14	29° £ 20'11	1°36'21	_	9085 Sep 06 09:22	0° m)	
minimum elong	9084 Oct 14 10:56	29° ≙ 13'04	1°36'23	asc. node	9085 Sep 18 21:19	22° Tp 24'21	
	9084 Oct 14 19:29	0°M	1 000 1	morning set	9085 Sep 22 01:52	29° m 01'53	
max. Earth dist.	9084 Oct 15 23:20	2*IIL32'40	1.32255 AU		9085 Sep 22 12:47	0∘ ⊽	

superior conj	9085 Sep 28 23:49	14° ≙ 10'17	1°26'21	superior conj	9086 Sep 13 11:26	28° Mp 56'33	1°11'07
minimum elong	9085 Sep 28 21:50	13° ⊆ 59'17	1°26'11	minimum elong	9086 Sep 13 09:11	28° Mp 44'06	1°10'45
max. Earth dist.	9085 Sep 29 07:57	14° ⊆ 55'29	1.31696 AU	minimum crong	9086 Sep 13 22:52	0° ⊡	1 10 15
evening rise	9085 Oct 05 20:23	29° ₽ 07'44		evening rise	9086 Sep 20 05:11	13° Ω 44'46	
8	9085 Oct 06 06:18	0°M		<i>8</i>	9086 Sep 28 07:35	0°M	
	9085 Oct 22 18:22	0°⊀		desc. node	9086 Oct 10 03:00	18° M 58'46	
desc. node	9085 Oct 23 05:52	0° ∡ ¹43'26		evening max el	9086 Oct 18 12:08	28°M40'38	26°00'55
evening max el	9085 Nov 05 14:15	17° ∡ 14'08	27°01'25		9086 Oct 19 23:07	0° ∡ °	
retrograde	9085 Nov 19 12:03	24° ₹ 24'23		retrograde	9086 Nov 01 10:07	5° ∡ ¹43'44	
evening set	9085 Nov 26 10:28	22° ≯ 18'52		evening set	9086 Nov 07 18:58	4° ₰ 07'28	
min. Earth dist.	9085 Nov 30 04:53	19° ∡ ³38′18	0.60520 AU	min. Earth dist.	9086 Nov 12 00:57	1° х 32′26	0.58436 AU
inferior conj	9085 Dec 03 08:25	17° ∡ 00′19	-3°51'23		9086 Nov 14 04:08	30°RM	
minimum elong	9085 Dec 03 15:34	16° ∡ 745′18	3°48'53	inferior conj	9086 Nov 15 03:52	29°M16'25	-4°54'29
morning rise	9085 Dec 10 23:09	12° ⊀ 12'16		minimum elong	9086 Nov 15 11:03	29°M03'21	4°52'46
direct	9085 Dec 13 03:26	11° ≯ 753′40		morning rise	9086 Nov 23 05:27	24°M50'50	
asc. node	9085 Dec 15 20:59	12° ₹ 24'14		direct	9086 Nov 25 11:43	24°M34'05	
morning max el	9085 Dec 20 11:40	15° х ³33′30	18°01'41	asc. node	9086 Dec 02 18:00	27°M39'10	
	9085 Dec 30 11:52	0°ಕ		morning max el	9086 Dec 03 19:03	28°M36'07	18°35'42
morning set	9086 Jan 05 03:03	10° る 15'44			9086 Dec 05 03:19	0° ∡	
				morning set	9086 Dec 19 21:36	24° ₹ 23'51	
superior conj	9086 Jan 15 02:51	28° る 29'13	0°30'25		9086 Dec 22 18:58	0°る	
minimum elong	9086 Jan 15 05:12	28° る 39'39	0°30'18			_	
	9086 Jan 15 23:26	0° ≈		superior conj	9086 Dec 28 17:05	11° ろ 17'24	
desc. node	9086 Jan 19 05:00	5°≈36'27		minimum elong	9086 Dec 28 20:23	11° る 32'48	1°00'18
max. Earth dist.	9086 Jan 22 17:24	11° ≈ 32'44	1.42107 AU	max. Earth dist.	9087 Jan 05 01:30	24° る 33'47	1.40022 AU
evening rise	9086 Jan 28 06:52	20°≈36'48		desc. node	9087 Jan 06 01:58	26° る 19'50	
	9086 Feb 03 06:54	0°) €			9087 Jan 08 05:33	0° ≈	
	9086 Feb 24 12:44	0°Υ	22022146	evening rise	9087 Jan 09 05:02	1°≈38'44	
evening max el	9086 Mar 02 10:04	6° Υ 41'17	22°33'46		9087 Jan 27 14:54	0°) {	2205 4102
retrograde	9086 Mar 12 06:50	12° Υ 31'50 12° Υ 20'01		evening max el	9087 Feb 13 00:37	20° ¥ 27'13	23°54'03
asc. node	9086 Mar 13 19:48	12° γ ′20'01 10° γ ′34'56		retrograde	9087 Feb 24 00:19	26° ¥ 55'10 25° ¥ 10'26	
evening set inferior conj	9086 Mar 17 00:28 9086 Mar 22 08:44	4° Y 11'58	2°27'47	asc. node	9087 Feb 28 16:55 9087 Mar 01 06:00	24° H 44'03	
minimum elong	9086 Mar 22 06:31	4°Υ19'40	2°27'11	evening set min. Earth dist.	9087 Mar 06 00:10	19°) 13'23	0.68299 AU
min. Earth dist.	9086 Mar 22 03:41	4° Υ 29'30	0.68507 AU	inferior conj	9087 Mar 06 00:10 9087 Mar 06 17:02	18°) 16'03	1°50'46
iiiii. Eartii dist.	9086 Mar 25 13:44	4 1 2 9 3 0 30° ₹	0.08307 AU	minimum elong	9087 Mar 06 14:55	18° X 23'14	1°50'08
morning rise	9086 Mar 27 12:24	28°) 02'37		morning rise	9087 Mar 11 23:51	12°) 13'01	1 20 00
direct	9086 Apr 01 03:17	26°\(\text{0257}\)		direct	9087 Mar 16 01:18	10°) 39'49	
4.1.001	9086 Apr 08 17:32	0°Υ		morning max el	9087 Mar 24 00:21	15°) 11'07	20°30'02
morning max el	9086 Apr 10 05:04	1° Y 24'36	21°48'20	desc. node	9087 Apr 04 01:56	29°) €02'56	
desc. node	9086 Apr 17 05:01	9° Y 33'44			9087 Apr 04 18:04	$0^{\circ}\mathbf{Y}$	
	9086 May 01 16:35	0°8		morning set	9087 Apr 21 21:14	25° Y 36'48	
morning set	9086 May 12 16:30	17° 8 01'03		C	9087 Apr 24 16:48	0°8	
max. Earth dist.	9086 May 18 15:22	26° 8 43'12	1.41647 AU	max. Earth dist.	9087 Apr 30 22:43	9° 8 55'11	1.43530 AU
	9086 May 20 14:26	$\Pi^{\circ}0$					
				superior conj	9087 May 07 08:15	20° 8 23'19	-2°09'07
superior conj	9086 May 26 07:26	9° Ⅱ 48′27	-1°51'24	minimum elong	9087 May 07 11:46	20° 8 37'54	2°09'12
minimum elong	9086 May 26 13:25	10° Ⅱ 14'45	1°51'05		9087 May 13 00:52	Π °0	
evening rise	9086 Jun 06 02:30	29° Ⅱ 19′22		evening rise	9087 May 19 17:40	11° Ⅱ 38′07	
	9086 Jun 06 11:19	0 \circ \odot		asc. node	9087 May 27 15:37	25° Ⅱ 19'33	
asc. node	9086 Jun 09 18:35	6° © 02'53			9087 May 30 13:19	0 \circ \odot	
evening max el	9086 Jun 22 06:58	25° © 01'28	18°11'45	evening max el	9087 Jun 05 19:46	8° © 09'52	18°05'09
retrograde	9086 Jun 29 06:53	28° © 33'30		retrograde	9087 Jun 12 07:16	11° © 30'56	
evening set	9086 Jul 01 15:36	28° © 09'57		evening set	9087 Jun 14 23:34	10° © 55'53	
inferior conj	9086 Jul 08 17:23	23° © 23'40	1°33'17	inferior conj	9087 Jun 21 09:33	5° © 49'50	2°30'49
minimum elong	9086 Jul 08 20:03	23°517'46	1°32'10	minimum elong	9087 Jun 21 12:23	5°5642'36	2°29'52
min. Earth dist.	9086 Jul 12 01:58	20°526'44	0.59560 AU	min. Earth dist.	9087 Jun 24 09:54	2°547'00	0.61817 AU
desc. node	9086 Jul 14 04:28	18°947'55		morning rise	9087 Jun 27 23:06	29° ∏ 46'13	
morning rise	9086 Jul 15 21:27	17°540'46		daga J-	9087 Jun 27 15:23	30°ŖⅡ 28°Ⅱ05'14	
direct	9086 Jul 22 06:59	15°546'31	27027121	desc. node	9087 Jul 01 01:32	28°Щ05'14 27°Щ24'47	
morning max el	9086 Aug 11 00:01	23°S37'40	2/ 3/21	direct	9087 Jul 04 16:02	2/°Ⅲ244/ 0°©	
	9086 Aug 30 14:05	0° Ω		morning may al	9087 Jul 12 06:59 9087 Jul 18 20:29	5° © 25'55	27056116
asc. node	9086 Aug 30 14:05 9086 Sep 05 18:14	0° Т р 12° Тр 14'06		morning max el	9087 Jul 18 20:29 9087 Aug 06 07:28	o° Ω	21 30 10
morning set	9086 Sep 06 08:42	12 m/1406 13°m/29'37		morning set	9087 Aug 00 07.28 9087 Aug 21 10:20	0 3ℓ 27° Ω 39'31	
max. Earth dist.	9086 Sep 12 17:54	27° My 19'23	1.31600 AU	morning set	9087 Aug 21 10:20 9087 Aug 22 13:35	0°M)	
max. Darui Uist.	7000 Dep 12 17.34	21 JUL 1723	1.51000 AU	asc. node	9087 Aug 22 15:35 9087 Aug 23 15:09	راتا 0 2°10/13'40	
					20.07	= 1,415 10	

max. Earth dist.	9087 Aug 27 01:17	9° m 33'14	1.31973 AU	asc. node	9088 Aug 09 12:05	22° Ω 18'35	
superior conj	9087 Aug 28 21:18	13° m 33'45	0°50'59	superior conj	9088 Aug 12 03:32	27° Ω 56'18	0°26'22
minimum elong	9087 Aug 28 19:17	13° m 22'41	0°50'31	minimum elong	9088 Aug 12 02:18	27° Ω 49'39	0°25'58
evening rise	9087 Sep 04 16:18	28° m/ 25'29	0 30 31	minimum clong	9088 Aug 13 02:30	0° mb	0 23 30
evening rise	9087 Sep 04 10:18 9087 Sep 05 09:59	0° ⊽		evening rise	9088 Aug 19 03:50	13° m)04'19	
	9087 Sep 03 03:35 9087 Sep 22 04:35	0° m .		evening rise	9088 Aug 27 15:57	0° ⊡	
desc. node	9087 Sep 27 00:07	6°ML04'52		evening max el	9088 Sep 10 13:10	0 = 19° £ 30'21	22°54'24
evening max el	9087 Sep 27 00:07 9087 Sep 30 02:05	9°MJ18'31	24°33'43	desc. node	9088 Sep 10 13:10 9088 Sep 12 21:15	21° ⊆ 35′50	22 34 24
retrograde	9087 Sep 30 02:03 9087 Oct 13 20:45	16°ML13'47	24 33 43		•	26° £ 07'35	
Č				retrograde	9088 Sep 23 19:26	26° £ 07'33 25° £ 36'29	
evening set	9087 Oct 19 03:14	15°M12'03 12°M23'59	0.56561 AU	evening set min. Earth dist.	9088 Sep 27 13:53	23 ≗ 36 29 22° £ 17'23	0.55201 AU
min. Earth dist.	9087 Oct 24 13:05				9088 Oct 04 21:37		
inferior conj	9087 Oct 27 03:07	10°M45'45		inferior conj	9088 Oct 06 07:23	21° Ω 28'52	
minimum elong	9087 Oct 27 06:15	10°M40'46	5°33'45	minimum elong	9088 Oct 06 02:53	21° Ω 35'21	5°30'01
morning rise	9087 Nov 04 11:26	6°M42'25		morning rise	9088 Oct 14 17:51	17° Ω 39'50	
direct	9087 Nov 07 01:07	6°M24'29	10021145	direct	9088 Oct 17 19:47	17° Ω 17'43	20050110
morning max el	9087 Nov 16 16:04	10°M.58'13	19°31'45	morning max el	9088 Oct 29 00:16	22° Ω 32'44	20°50'10
asc. node	9087 Nov 19 14:59	14°M11'34			9088 Nov 04 07:09	0°M	
	9087 Nov 29 11:34	0° ∡		asc. node	9088 Nov 05 11:58	1°M45'51	
morning set	9087 Dec 04 00:09	8° ≯ 52'58		morning set	9088 Nov 17 07:54	23°M35'18	
		-			9088 Nov 20 09:49	0° ∡	
superior conj	9087 Dec 11 23:29	24° ≯ 51′23	1°21'45			_	
minimum elong	9087 Dec 12 02:19	25° ∡ 05'17	1°21'43	superior conj	9088 Nov 24 17:40	8° ≯ 58'43	1°34'47
	9087 Dec 14 15:07	0°₹		minimum elong	9088 Nov 24 19:23	9° ∡ °07'30 −	1°34'55
max. Earth dist.	9087 Dec 18 07:23	6° る 54'30	1.37837 AU	max. Earth dist.	9088 Nov 29 15:49	18° ≯ 50'43	1.35801 AU
evening rise	9087 Dec 22 00:41	13° る 36'59		evening rise	9088 Dec 03 15:12	26° ∡ ¹25'17	
desc. node	9087 Dec 23 22:55	16° る 58'46			9088 Dec 05 13:59	0°る	
	9087 Dec 31 20:06	0° ≈		desc. node	9088 Dec 09 19:56	7° る 29'28	
	9088 Jan 22 13:51	0° ∀			9088 Dec 24 06:28	0° ≈	
evening max el	9088 Jan 26 13:45	4°) 14'47	25°10'51	evening max el	9089 Jan 08 02:55	18° ≈ 01'08	26°17'01
retrograde	9088 Feb 07 13:39	11° 米 11'49		retrograde	9089 Jan 20 22:05	25°≈15'51	
evening set	9088 Feb 13 07:51	8°) 48′27		evening set	9089 Jan 27 04:21	22° ≈ 43′50	
asc. node	9088 Feb 15 14:02	6°) 33′18		min. Earth dist.	9089 Jan 31 08:33	18° ≈ 22'22	0.66701 AU
min. Earth dist.	9088 Feb 17 18:30	3° ¥ 52′30	0.67690 AU	asc. node	9089 Feb 01 11:09	17° ≈ 01'09	
inferior conj	9088 Feb 18 22:57	2° ₩ 19'47	1°05'06	inferior conj	9089 Feb 02 00:36	16° ≈ 19'47	0°11'08
minimum elong	9088 Feb 18 21:28	2° ∺ 24'39	1°04'40	minimum elong	9089 Feb 02 00:18	16° ≈ 20'42	0°11'13
	9088 Feb 20 19:00	30°R ≈		transit middle	9089 Feb 02 00:18	16° ≈ 20'42	0°11'13
morning rise	9088 Feb 24 11:25	26° ≈ 24'32		transit begin	9089 Feb 01 22:15	16° ≈ 27'02	
direct	9088 Feb 28 00:24	25°≈12'28		transit end	9089 Feb 02 02:22	16°≈14'23	
morning max el	9088 Mar 06 03:35	29° ≈ 09'11	19°25'14	morning rise	9089 Feb 07 21:03	10° ≈ 34'10	
	9088 Mar 06 23:28	0° ∀		direct	9089 Feb 10 23:03	9° ≈ 40'22	
greatest brilliancy	9088 Mar 18 22:37	15° ¥ 58'17	-0.7m	morning max el	9089 Feb 17 13:57	13° ≈ 14'59	18°36'06
desc. node	9088 Mar 20 22:48	18° ¥ 58'11			9089 Mar 01 22:16	0° ∀	
	9088 Mar 28 04:44	0° Y		desc. node	9089 Mar 07 19:41	9° ¥ 12'38	
morning set	9088 Mar 30 19:58	4° Y 03'16		morning set	9089 Mar 10 12:23	13° ¥ 27′24	
max. Earth dist.	9088 Apr 12 12:23	23° Ƴ 49'11	1.44864 AU		9089 Mar 21 01:09	0° Y	
		••				••	
superior conj	9088 Apr 16 08:40	29°Y55'23		superior conj	9089 Mar 26 16:14	8° Y 48′29	
minimum elong	9088 Apr 16 05:42	29° Y 43′30	2°10'49	minimum elong	9089 Mar 26 07:17	8°Υ13'29	
	9088 Apr 16 09:50	0°8		max. Earth dist.	9089 Mar 26 06:07	8° Y 08'55	1.45516 AU
evening rise	9088 Apr 30 11:54	23° 8 00'55			9089 Apr 09 03:01	0°8	
	9088 May 04 16:24	0°II		evening rise	9089 Apr 11 06:24	3° 8 24'24	
asc. node	9088 May 13 12:41	14° Ⅱ 09'32		greatest brilliancy	9089 Apr 19 13:33	16° 8 36'44	-0.8m
evening max el	9088 May 19 09:06	21° Ⅱ 34'14	18°17'21		9089 Apr 28 12:51	0° Π	
retrograde	9088 May 25 18:26	24° ∏ 58'45		asc. node	9089 Apr 30 09:46	2° ∏ 24'13	
evening set	9088 May 28 18:07	24° Ⅱ 10′26		evening max el	9089 May 02 20:20	5° ∏ 08'09	18°47'32
inferior conj	9088 Jun 03 16:20	18° Ⅱ 46'30	3°04'43	retrograde	9089 May 09 12:17	8° ∏ 48'51	
minimum elong	9088 Jun 03 18:13	18° Ⅱ 41'06	3°04'11	evening set	9089 May 12 19:37	7° Ⅱ 46'09	
min. Earth dist.	9088 Jun 06 03:18	15° Ⅱ 59'11	0.63919 AU	inferior conj	9089 May 18 09:50	2° I 106'00	3°19'43
morning rise	9088 Jun 09 17:06	12° Ⅱ 31'47		minimum elong	9089 May 18 10:27	2° Ⅱ 04'06	3°19'27
direct	9088 Jun 16 10:10	9° Ⅱ 52'09		min. Earth dist.	9089 May 20 05:40	29° 8 50'01	0.65697 AU
desc. node	9088 Jun 16 22:34	9° Ⅱ 53'01			9089 May 20 02:23	30° ₹ 8	
morning max el	9088 Jun 30 05:41	17° Ⅱ 53'56	27°37'49	morning rise	9089 May 24 00:38	25° 8 47'10	
	9088 Jul 10 08:44	0ංම		direct	9089 May 30 11:57	23° 8 01'05	
	9088 Jul 29 04:33	$0^{\circ}\Omega$		desc. node	9089 Jun 03 19:35	24° 8 02'50	
morning set	9088 Aug 04 04:24	11° Ω 25'09			9089 Jun 11 20:02	Π °0	
max. Earth dist.	9088 Aug 09 02:05	21° Ω 26′04	1.32824 AU	morning max el	9089 Jun 12 16:14	0° Д 50′14	26°47'34

morning set	9089 Jul 04 09:36 9089 Jul 18 11:49	0°ഇ 24° ഇ 37'35		morning rise	9090 May 07 18:44 9090 May 13 19:59	9° と 23'50 6° と 42'41	
-	9089 Jul 21 06:24	$0^{\circ}\Omega$		desc. node	9090 May 21 16:35	10° 8 05'27	
max. Earth dist.	9089 Jul 22 16:57	2° Ω 51'18	1.34173 AU	morning max el	9090 May 26 02:08 9090 Jun 08 01:16	14° 8 03'19 0° I	25°34'16
superior conj	9089 Jul 27 03:53	11° Ω 57'42	-0°02'09		9090 Jun 27 04:41	0∘ ©	
minimum elong	9089 Jul 27 04:01	11° Ω 58′21	0°02'21	morning set	9090 Jul 01 04:36	7° 5 06'26	
behind sun begin	9089 Jul 26 22:19	11° Ω 28'42		max. Earth dist.	9090 Jul 04 21:12	13° © 57'08	1.35987 AU
behind sun end	9089 Jul 27 09:43	12° Ω 28′02					
asc. node	9089 Jul 27 09:01	12° Ω 24′28		superior conj	9090 Jul 10 19:40	25° © 31'02	-0°33'28
evening rise	9089 Aug 03 13:51	27° Ω 35′07		minimum elong	9090 Jul 10 21:42	25°5541'12	0°33'20
	9089 Aug 04 17:40	0° m			9090 Jul 13 01:00	0 $^{\circ}\Omega$	
	9089 Aug 23 09:51	0∘ ত		asc. node	9090 Jul 14 06:00	2° Ω 27'42	
evening max el	9089 Aug 23 06:30	29° m 51'49	21°19'29	evening rise	9090 Jul 18 20:15	11° Ω 52′19	
desc. node	9089 Aug 30 18:24	4° £ 59'51			9090 Jul 28 10:01	0° ™	
retrograde	9089 Sep 04 08:32	5° £ 51'17		evening max el	9090 Aug 05 12:26	10° m 50'54	20°00'26
evening set	9089 Sep 06 19:51	5° ≏ 37'12		retrograde	9090 Aug 15 22:24	15° m 59'57	
inferior conj	9089 Sep 16 00:29	1° ≏ 40'24		evening set	9090 Aug 17 19:59	15° m 50'26	
minimum elong	9089 Sep 15 14:55	1° ≏ 53'50		desc. node	9090 Aug 17 15:32	15° m 52'11	
min. Earth dist.	9089 Sep 16 06:03	1° ≏ 32'35	0.54657 AU	inferior conj	9090 Aug 26 20:23	11° m 50'49	
	9089 Sep 19 01:43	30°R Mp		minimum elong	9090 Aug 26 12:50	•	2°44'38
morning rise	9089 Sep 24 10:41	27° m 48'33		min. Earth dist.	9090 Aug 28 16:22	10° m 44'41	0.55072 AU
direct	9089 Sep 28 04:29	27° mp 18'18		morning rise	9090 Sep 04 04:15	7° TQ 36'13	
	9089 Oct 06 14:41	0∘ ⊽		direct	9090 Sep 08 16:33	6° TQ 51'52	
morning max el	9089 Oct 10 20:04	3° £ 19'22	22°27'36	morning max el	9090 Sep 22 08:40	13° Tp 35'09	24°14'01
asc. node	9089 Oct 23 08:56	20° £ 07'01		,	9090 Oct 05 01:39	0∘ ⊽	
	9089 Oct 28 16:28	0°M		asc. node	9090 Oct 10 05:53	9° Ω 03'44	
morning set	9089 Nov 01 18:36	8°M23'31		morning set	9090 Oct 17 06:23	23° £ 12'28 0° IL	
	0000 N 00 10.57	220m 27144	1940/20		9090 Oct 20 09:52	0-116	
superior conj	9089 Nov 08 19:57	23°M27'44 23°M30'01	1°40'28 1°40'39	aumariar aani	0000 Oat 24 02:25	00 m 10105	1°39'34
minimum elong	9089 Nov 08 20:23 9089 Nov 11 22:44	23 IIL3001 0° √	1 40 39	superior conj	9090 Oct 24 03:35	8°M10'05 8°M06'04	1°39'42
max. Earth dist.	9089 Nov 12 07:21	0° х ¹ 0° х ⁴44'28	1.34091 AU	minimum elong max. Earth dist.	9090 Oct 24 02:51 9090 Oct 26 07:17	12°M49'58	1.32803 AU
evening rise	9089 Nov 16 20:40	9° 🖈 52'47	1.54091 AU	evening rise	9090 Oct 20 07:17 9090 Oct 31 13:26	23°M49'52	1.32803 AU
desc. node	9089 Nov 26 16:59	27° х 46'08		evening rise	9090 Nov 03 16:09	23 11 0 49 32	
dese. Hode	9089 Nov 28 01:03	0°る。		desc. node	9090 Nov 13 14:03	17° х 42'19	
	9089 Dec 20 00:37	0° ≈		desc. node	9090 Nov 21 16:03	0°る	
evening max el	9089 Dec 21 16:14	1°≈38'22	27°05'19	evening max el	9090 Dec 04 04:23	14° る 54'54	27°28'37
retrograde	9090 Jan 04 00:41	8°≈59'25	2, 00 19	retrograde	9090 Dec 17 20:35	22° る 14'02	2, 200,
evening set	9090 Jan 10 17:26	6°≈24'10		evening set	9090 Dec 24 20:37	19° る 42'49	
min. Earth dist.	9090 Jan 14 16:06	2° ≈ 36'28	0.65348 AU	min. Earth dist.	9090 Dec 28 14:54		0.63668 AU
inferior conj	9090 Jan 16 19:46	0° ≈ 10'55	-0°50'35	inferior conj	9090 Dec 31 05:47	13° る 46'47	-1°58'48
minimum elong	9090 Jan 16 21:14	0°≈06'44	0°49'43	minimum elong	9090 Dec 31 09:33	13° る 37'10	
	9090 Jan 16 23:38	30°Ŗる		asc. node	9091 Jan 06 05:22	8° る 49'33	
asc. node	9090 Jan 19 08:16	27° る 28'07		morning rise	9091 Jan 07 00:22	8° පි 28'18	
morning rise	9090 Jan 23 02:22	24° る 37'19		direct	9091 Jan 09 10:10	7° る 59'53	
direct	9090 Jan 25 19:11	23° る 58'08		morning max el	9091 Jan 15 22:41	11° る 22'31	17°48'34
morning max el	9090 Feb 01 05:16	27° る 21'53	18°03'43		9091 Jan 28 15:32	0° ≈	
	9090 Feb 03 14:15	0° ≈		morning set	9091 Feb 01 10:52	6° ≈ 31'26	
morning set	9090 Feb 19 10:02	24° ≈ 19'44		desc. node	9091 Feb 09 13:29	20° ≈ 17'52	
desc. node	9090 Feb 22 16:35	29° ≈ 40'42					
	9090 Feb 22 21:19	0° ℋ		superior conj	9091 Feb 14 01:46	27° ≈ 45'07	
				minimum elong	9091 Feb 13 22:12	27° ≈ 30'34	0°32'04
superior conj	9090 Mar 06 00:09	17°) 49′56			9091 Feb 15 10:54	0° ∀	
minimum elong	9090 Mar 05 15:41	17°) 16′28		max. Earth dist.	9091 Feb 19 20:37	7°)(04'34	1.44614 AU
max. Earth dist.	9090 Mar 09 01:42	22° 升 39′25	1.45426 AU	evening rise	9091 Mar 01 15:24	22°) € 20'57	
	9090 Mar 13 18:29	0°Υ			9091 Mar 06 15:54	0° Υ	
evening rise	9090 Mar 22 03:56	13° Y 01'01		avania 1	9091 Mar 27 23:08	0° 8	20025157
grantast builli	9090 Apr 02 05:37	0° 8	0.7~	evening max el	9091 Mar 30 05:03	2° 8 26'53	20°35'56
greatest brilliancy	9090 Apr 04 09:35	3° 8 14'53 18° 8 46'54	-0.7m	asc. node	9091 Apr 04 04:02	6° 8 21'15 7° 8 11'53	
evening max el asc. node	9090 Apr 16 03:24 9090 Apr 17 06:53	18° 6 46'54	19°34'27	retrograde	9091 Apr 11 00:13	5° 8 38'35	
asc. node retrograde	9090 Apr 17 06:53 9090 Apr 23 09:44	22° 8 55'13		evening set	9091 Apr 11 09:13 9091 Apr 16 07:58	30°RΥ	
evening set	9090 Apr 23 09:44 9090 Apr 27 01:22	21° 8 37'22		inferior conj	9091 Apr 16 16:31	29° Υ 30'39	3°07'37
inferior conj	9090 May 02 10:48	15° 8 42'28	3°19'45	minimum elong	9091 Apr 16 15:01	29° Υ 35'50	3°07'17
minimum elong	9090 May 02 10:13	15° 8 44'24	3°19'33	min. Earth dist.	9091 Apr 17 07:18	28° Υ 39'51	0.67972 AU
min. Earth dist.	9090 May 03 15:38		0.67058 AU	morning rise	9091 Apr 21 20:35	23° Υ 14'32	3.5,7,2110
		2. 00, 11	, , , , , , , , , , , , , , , , ,		p. 2. 20.00	2	

direct	9091 Apr 27 09:07	20° Ƴ 47'19		min. Earth dist.	9092 Mar 31 02:39	13° Y 21′23	0.68438 AU
morning max el	9091 May 08 11:19	27° Υ 25'14	24°07'45	morning rise	9092 Apr 05 03:50	7° Υ 15'43	0.00.50110
desc. node	9091 May 08 13:32	27° Υ 30'52		direct	9092 Apr 10 02:34	5° Υ 07'59	
	9091 May 10 21:23	0°8		morning max el	9092 Apr 19 21:56	10° Y 55'14	22°37'57
	9091 Jun 01 16:57	0°Щ		desc. node	9092 Apr 24 10:28	15° Y 56'53	
morning set	9091 Jun 13 01:39	18° Ⅲ 37′21			9092 May 05 00:12	0° ႘	
max. Earth dist.	9091 Jun 16 18:39	25° Ⅱ 08'18	1.38139 AU	morning set	9092 May 23 21:43	28° 8 58'03	
	9091 Jun 19 11:04	0 \circ \mathfrak{S}		C	9092 May 24 12:47	$\Pi^{\circ}0$	
				max. Earth dist.	9092 May 28 15:54	6° Ⅱ 54'55	1.40402 AU
superior conj	9091 Jun 23 23:20	8° 5 26'33	-1°05'53				
minimum elong	9091 Jun 24 03:31	8° 5 46'34	1°05'28	superior conj	9092 Jun 05 10:43	20° ∏ 34'40	-1°36'24
asc. node	9091 Jul 01 02:59	22° © 23'41		minimum elong	9092 Jun 05 16:34	21° Ⅱ 01′09	1°35'56
evening rise	9091 Jul 02 20:19	25°5647'47			9092 Jun 10 13:31	0 \circ \odot	
	9091 Jul 04 23:49	$0^{\circ}\Omega$		evening rise	9092 Jun 15 10:55	9° 5 13'29	
evening max el	9091 Jul 19 07:16	22° Ω 34'39	19°01'52	asc. node	9092 Jun 16 23:59	12° © 08'22	
retrograde	9091 Jul 28 01:58	26° Ω 56′00			9092 Jun 27 09:27	0 \circ Ω	
evening set	9091 Jul 29 23:49	26° Ω 44'27		evening max el	9092 Jul 01 12:05	4° Ω 58'32	18°24'15
desc. node	9091 Aug 04 12:41	24° Ω 21'11		retrograde	9092 Jul 09 00:31	8° Ω 44'26	
inferior conj	9091 Aug 07 07:59	22° Ω 29'43	-0°51'46	evening set	9092 Jul 11 04:38	8° Ω 26′26	
minimum elong	9091 Aug 07 05:46	22° Ω 33'34	0°51'04	inferior conj	9092 Jul 18 17:07	3° Ω 51'55	0°47'53
min. Earth dist.	9091 Aug 10 06:17	20° Ω 28'46	0.56363 AU	minimum elong	9092 Jul 18 18:45	3° Ω 48'36	0°47'04
morning rise	9091 Aug 15 08:37	17° Ω 39'06		desc. node	9092 Jul 21 09:48	1° Ω 40'40	
direct	9091 Aug 20 16:33	16° Ω 32'27		min. Earth dist.	9092 Jul 22 01:57	1° Ω 09'08	0.58286 AU
morning max el	9091 Sep 03 21:43	23° Ω 49'46	25°53'31		9092 Jul 23 15:34	30° ₹ 5	
	9091 Sep 09 12:24	0° m		morning rise	9092 Jul 26 05:25	28° © 25'16	
asc. node	9091 Sep 27 02:49	28° Mp 26'39		direct	9092 Aug 01 07:01	26°9548'56	
	9091 Sep 27 21:32	0∘ ⊽			9092 Aug 10 05:48	0 \circ Ω	
morning set	9091 Oct 01 17:35	7° ≏ 57'18		morning max el	9092 Aug 15 16:24	4° Ω 31'12	27°09'18
		_			9092 Sep 03 08:45	0° ™	
superior conj	9091 Oct 08 14:16	22° Ω 58'54	1°32'46	asc. node	9092 Sep 12 23:43	18° Mp 08'24	
minimum elong	9091 Oct 08 12:38	22° Ω 49'53	1°32'43	morning set	9092 Sep 15 02:31	22° Tp 32'58	
max. Earth dist.	9091 Oct 09 13:46	25° Ω 08'42	1.31965 AU		9092 Sep 18 13:27	0∘ ⊽	
	9091 Oct 11 18:55	0°M			0000 0 00 00 00	70 0 47150	1020121
evening rise	9091 Oct 15 14:23	8°M08'03		superior conj	9092 Sep 22 02:03	7° Ω 47'52	1°20'31
1 1	9091 Oct 27 02:08	0° ⊀ 7		minimum elong	9092 Sep 21 23:54	7° Ω 35'56	1°20'16
desc. node	9091 Oct 31 11:09	7° ҂ 09'36 27° ҂ 37'08	27921104	max. Earth dist.	9092 Sep 21 23:25	7° £ 33'16 22° £ 39'57	1.31592 AU
evening max el	9091 Nov 16 12:57	27 x・3708	27°21'04	evening rise	9092 Sep 28 20:56	0°M	
retrograde	9091 Nov 19 06:12 9091 Nov 30 09:06	0 3 4° 3 50′50		desc. node	9092 Oct 02 09:48 9092 Oct 17 08:17	25°M55'54	
evening set	9091 Dec 07 10:42	4 83030 2° 8 32'40		desc. Hode	9092 Oct 17 08:17 9092 Oct 20 06:42	25 11655 54 0° X 1	
evening set	9091 Dec 10 19:10	2 ℃32 40 30°R √		evening max el	9092 Oct 20 00:42 9092 Oct 28 15:06	9° ∡ 32′29	26°39'32
min. Earth dist.	9091 Dec 11 03:18	29° х 42'26	0.61719 AU	retrograde	9092 Nov 11 13:11	16° √ 40'17	20 37 32
inferior conj	9091 Dec 14 03:36	26° × 59'30		evening set	9092 Nov 18 07:27	14° х 45'44	
minimum elong	9091 Dec 14 09:45	26° ⊀ ¹45'38	3°08'07	min. Earth dist.	9092 Nov 22 04:58	12° ₹ ′09'53	0.59625 AU
morning rise	9091 Dec 21 11:06	21° ₹ ′59'38		inferior conj	9092 Nov 25 09:39	9° х 38′51	
direct	9091 Dec 23 16:29	21° х 38'23		minimum elong	9092 Nov 25 17:11	9° х 23′57	
asc. node	9091 Dec 24 02:26	21° ≯ ³39'08		morning rise	9092 Dec 03 05:25	5° х 00′35	
morning max el	9091 Dec 30 15:05	25° х 09′03	17°51'28	direct	9092 Dec 05 09:55	4° ₹ '43'12	
C	9092 Jan 03 15:41	8°0		asc. node	9092 Dec 09 23:28	6° ∡ °03′17	
morning set	9092 Jan 15 08:29	19° る 42'26		morning max el	9092 Dec 13 02:53	8° ∡ 31'04	18°13'36
	9092 Jan 21 02:15	0°≈		_	9092 Dec 26 23:24	ರ°0	
				morning set	9092 Dec 28 20:44	3° る 33'28	
superior conj	9092 Jan 26 04:44	8° ≈ 54'01	0°09'14				
minimum elong	9092 Jan 26 05:35	8° ≈ 57'40	0°09'19	superior conj	9093 Jan 07 07:26	21° る 09'57	0°44'13
behind sun begin	9092 Jan 25 22:35	8° ≈ 27'38		minimum elong	9093 Jan 07 10:25	21° る 23'26	0°44'03
behind sun end	9092 Jan 26 12:34	9° ≈ 27'38			9093 Jan 12 07:02	0° ≈	
desc. node	9092 Jan 27 10:24	11° ≈ 00'42		desc. node	9093 Jan 13 07:20	1° ≈ 44'52	
max. Earth dist.	9092 Feb 02 12:09	21° ≈ 07′26	1.43165 AU	max. Earth dist.	9093 Jan 14 22:19	4° ≈ 31'11	1.41246 AU
	9092 Feb 08 01:01	0°) €		evening rise	9093 Jan 19 17:58	12° ≈ 31'12	
evening rise	9092 Feb 09 08:10	2° ₩ 02'17			9093 Jan 30 23:19	0° ∀	
	9092 Feb 28 03:54	0° Υ		evening max el	9093 Feb 22 17:09	29° 米 51′36	23°07'47
evening max el	9092 Mar 12 01:15	16° Y ′08′13	21°48'34		9093 Feb 22 20:31	0° Υ	
retrograde	9092 Mar 21 06:11	21° Y 35'04		retrograde	9093 Mar 05 01:45	5° Y 59'32	
asc. node	9092 Mar 21 01:10	21° Y 34'51		asc. node	9093 Mar 07 22:18	5°Υ19'25	
evening set	9092 Mar 25 17:25	19° Y 46′27		evening set	9093 Mar 10 00:21	3°Υ56'21	
inferior conj	9092 Mar 31 00:47	13° Υ 27'53			9093 Mar 13 13:40	30° ₹	2012110
minimum elong	9092 Mar 30 22:42	13° Ƴ 35′07	2*44*33	inferior conj	9093 Mar 15 09:36	27° ∺ 30′28	2*15'10

minimum elong	9093 Mar 15 07:22	27°) 38'10	2°12'31	morning rise	9094 Mar 05 02:02	5°) 34'48	
min. Earth dist.	9093 Mar 14 23:26	28°) (05'34	0.68470 AU	direct	9094 Mar 08 22:01	4°) 10'46	
morning rise	9093 Mar 20 14:18	21° X 23'31	0.00170110	morning max el	9094 Mar 16 11:44	8° ¥ 26′07	20°00'28
direct	9093 Mar 24 23:15	19°) 37'41		desc. node	9094 Mar 29 04:15	24°) 47'49	20 00 20
morning max el	9093 Apr 02 13:12	24°) 34'52	21°13'30	dese. node	9094 Apr 01 17:14	0°Υ	
morning max or	9093 Apr 07 08:31	0°Υ	21 1330	morning set	9094 Apr 12 13:55	16° Y 28′06	
desc. node	9093 Apr 11 07:22	5° Υ 06'31		morning set	9094 Apr 21 05:56	0°8	
dese. Hode	9093 Apr 28 09:46	0°8		max. Earth dist.	9094 Apr 23 04:03		1.44176 AU
morning set	9093 May 03 14:48	8° 8 05'30		max. Earth dist.	7074 Apr 25 04.05	3 003 10	1.44170710
max. Earth dist.	9093 May 10 18:16	19° 8 33'11	1.42499 AU	superior conj	9094 Apr 28 15:29	11° 8 52'55	2012/08
max. Earm dist.	9093 May 17 00:31	0° Ⅱ	1.42499 AU	minimum elong	9094 Apr 28 15:29 9094 Apr 28 16:37	11° 8 57'31	
	9093 May 17 00.31	υд		minimum ciong		0° Ⅱ	2 12 16
	0002 M 10 01.16	1° Ⅱ 45'36	2000120		9094 May 09 11:47	0 П 3°П55'00	
superior conj	9093 May 18 01:16			evening rise	9094 May 11 18:42		
minimum elong	9093 May 18 06:42	2° I 108'57	2-00-21	asc. node	9094 May 21 18:04	20° Ⅱ 43'15	
evening rise	9093 May 29 11:57	21° ∏ 59'32			9094 May 28 09:56	0°99	10000110
1	9093 Jun 02 23:01	0°95		evening max el	9094 May 29 12:28	1°509'59	18°08'10
asc. node	9093 Jun 03 21:01	1°937'01	1000 (140	retrograde	9094 Jun 04 21:48	4°930'33	
evening max el	9093 Jun 14 23:01	17° © 53'35	18°06'40	evening set	9094 Jun 07 17:18	3°950'00	
retrograde	9093 Jun 21 16:30	21°5519'16			9094 Jun 12 13:57	30°Ŗ Ⅱ	
evening set	9093 Jun 24 04:20	20° © 51'15		inferior conj	9094 Jun 13 21:48	28° Ⅲ 36′24	
inferior conj	9093 Jun 30 22:57	15° © 56'40	2°00'52	minimum elong	9094 Jun 14 00:19	28° ∏ 29'39	
minimum elong	9093 Jul 01 01:53	15°5549'44	1°59'44	min. Earth dist.	9094 Jun 16 16:59	25° Ⅱ 37'42	0.62745 AU
min. Earth dist.	9093 Jul 04 05:08	12° © 53'56	0.60517 AU	morning rise	9094 Jun 20 05:38	22° Ⅱ 27'16	
morning rise	9093 Jul 07 20:42	10° © 03'26		desc. node	9094 Jun 25 03:57	20° Ⅱ 07'05	
desc. node	9093 Jul 08 06:53	9° © 47'40		direct	9094 Jun 26 23:39	19° Ⅱ 56′28	
direct	9093 Jul 14 10:19	7° 5 56'28		morning max el	9094 Jul 11 00:42	27° Ⅱ 59'10	27°52'43
morning max el	9093 Jul 28 17:50	15° © 53'57	27°50'12		9094 Jul 12 22:58	0°€	
	9093 Aug 09 06:35	$0^{\circ}\Omega$			9094 Aug 03 01:31	$0^{\circ}\Omega$	
	9093 Aug 26 21:42	O° m y		morning set	9094 Aug 14 06:04	20° Ω 54'07	
morning set	9093 Aug 30 07:24	6° Mp 54'11		asc. node	9094 Aug 17 17:31	28° Ω 05'10	
asc. node	9093 Aug 30 20:37	8° Mp 03'04			9094 Aug 18 15:13	0° m)	
max. Earth dist.	9093 Sep 05 08:34	19° m 53'41	1.31689 AU	max. Earth dist.	9094 Aug 19 13:24	1°₩58'25	1.32270 AU
superior conj	9093 Sep 06 13:09	22°M 31'23	1°03'10	superior conj	9094 Aug 21 21:43	7° Mp 02'54	0°41'05
minimum elong	9093 Sep 06 10:57	22° Mp 19'09	1°02'45	minimum elong	9094 Aug 21 19:57	6° Mp 53′20	0°40'37
	9093 Sep 09 22:16	0∘ ⊽		evening rise	9094 Aug 28 18:25	21° m 59'39	
evening rise	9093 Sep 13 06:56	7° ≏ 19'22			9094 Sep 01 14:25	0∘ ত	
	9093 Sep 24 23:31	0° M			9094 Sep 20 20:58	0° M	
desc. node	9093 Oct 04 05:24	13°M45'06		desc. node	9094 Sep 21 02:33	0° ™ 14'13	
evening max el	9093 Oct 10 09:20	20°M37'16	25°26'31	evening max el	9094 Sep 21 21:18	1°M00'33	23°52'05
retrograde	9093 Oct 24 07:05	27°M38'16		retrograde	9094 Oct 05 12:21	7° ™ 49'28	
evening set	9093 Oct 30 06:03	26°M16'31		evening set	9094 Oct 10 03:55	7°M02'13	
min. Earth dist.	9093 Nov 03 21:30	23°M38'05	0.57592 AU	min. Earth dist.	9094 Oct 16 07:46	4°M02'51	0.55900 AU
inferior conj	9093 Nov 06 20:42	21°M36'09	-5°15'20	inferior conj	9094 Oct 18 11:22	2°M44'59	-5°39'03
minimum elong	9093 Nov 07 02:45	21°M25'45	5°14'12	minimum elong	9094 Oct 18 11:27	2°M44'51	5°38'55
morning rise	9093 Nov 15 01:46	17°M20'23		C	9094 Oct 23 11:11	30° ₽ Ω	
direct	9093 Nov 17 10:16	17°M03'38		morning rise	9094 Oct 26 20:59	28° ≏ 48'48	
morning max el	9093 Nov 26 06:22	21°M18'21	18°56'42	direct	9094 Oct 29 15:24	28° ≏ 29'23	
asc. node	9093 Nov 26 20:27	21°M53'14			9094 Nov 04 09:40	0°M	
	9093 Dec 03 00:35	0° ⊼		morning max el	9094 Nov 08 22:00	3°M20'07	20°02'24
morning set	9093 Dec 12 19:05	17° х 51'40		asc. node	9094 Nov 13 17:25	8°M53'26	20 022.
morning sec	9093 Dec 18 23:17	0°る		uoe. noue	9094 Nov 25 19:06	0° ∡ 7	
	7075 Dec 10 25.17	0 0		morning set	9094 Nov 27 00:11	2° × ⁷ 27'17	
superior conj	9093 Dec 21 05:09	4° る 19'23	1°10'32	morning sec	, o, i i i o i i o i i o i i o i i o i i o i i o i i o i o i i o i o i o i o i o i o i o i o i o i o i o i o i	- 77 17	
minimum elong	9093 Dec 21 08:22	4° る 34'46	1°10'24	superior conj	9094 Dec 04 17:02	18° ₹ 08'40	1°28'13
max. Earth dist.	9093 Dec 28 04:30	17°る12'05	1.39093 AU	minimum elong	9094 Dec 04 19:26	18° х °20'42	1°28'16
desc. node	9093 Dec 31 04:17	22° る 26'55	1.57075 110	max. Earth dist.	9094 Dec 10 11:00	29° ₹ 20'29	1.36947 AU
evening rise	9094 Jan 01 01:29	23° ප 57'59		max. Earth dist.	9094 Dec 10 11:00	0°る	1.50547 710
5 (ching 1150	9094 Jan 04 15:42	23 O 3739		evening rise	9094 Dec 10 19:23 9094 Dec 14 05:37	6°る18'55	
	9094 Jan 24 18:28	0 ∞ 0° ∀		desc. node	9094 Dec 18 01:17	13° る 03'05	
avaning may al		13° ¥ 38'32	24027122	uese. Hout		0°≈	
evening max el	9094 Feb 05 06:55	13° ↑ 38'32 20° ↑ 20'26	24 2/32	oveni 1	9094 Dec 28 12:38		25040146
retrograde	9094 Feb 16 17:40	20° ★ 20′26 18° ★ 04′02		evening max el	9095 Jan 18 20:14	27°≈27'27	25°40'46
evening set	9094 Feb 22 04:31			matma c J -	9095 Jan 21 15:18	0°) { 4°¥22!45	
asc. node	9094 Feb 22 19:26	17° ¥ 30'33	0.60000 411	retrograde	9095 Jan 31 04:56	4°) 32'45	
min. Earth dist.	9094 Feb 26 19:23	12°) 47'51	0.68090 AU	evening set	9095 Feb 06 04:20	2° ∺ 05'28	
inferior conj	9094 Feb 27 17:08	11°) (35'01	1°32'26	1	9095 Feb 08 07:51	30°R≈	
minimum elong	9094 Feb 27 15:13	11°) (41′25	1-31.21	asc. node	9095 Feb 09 16:34	28° ≈ 25′01	

min. Earth dist.	9095 Feb 10 12:15	27° ≈ 24'04	0.67318 AU	min. Earth dist.	9096 Jan 24 23:41	11° ≈ 48'29	0.66171 AU
inferior conj	9095 Feb 11 21:32	25°≈38'15	0°43'14	inferior conj	9096 Jan 26 20:43	9°≈35'16	
minimum elong	9095 Feb 11 20:29	25°≈41'37	0°42'59	minimum elong	9096 Jan 26 21:06	9°≈34'08	0°13'44
morning rise	9095 Feb 17 13:05	19° ≈ 46'39	0 4237	transit middle	9096 Jan 26 21:06	9°≈34'08	0°13'44
direct	9095 Feb 20 21:18	18° ≈ 42'35		transit begin	9096 Jan 26 19:36	9° ≈ 38'37	0 15 11
morning max el	9095 Feb 27 18:09	22°≈28'11	19°02'17	transit end	9096 Jan 26 22:37	9° ≈ 29'39	
morning max er	9095 Mar 05 23:38	0° \	17 02 17	asc. node	9096 Jan 27 13:41	8°≈45'19	
greatest brilliancy	9095 Mar 13 09:53	10° ¥ 50'57	-0.8m	morning rise	9096 Feb 01 21:15	3°≈54'35	
desc. node	9095 Mar 16 01:08	14°) 52'21	0.0111	direct	9096 Feb 04 19:12	3°≈07'22	
morning set	9095 Mar 22 17:51	25° X 13'12		morning max el	9096 Feb 11 07:00	6°≈35'40	18°20'18
morning set	9095 Mar 25 19:44	25 γ (1512		morning max ci	9096 Feb 27 15:39	0°) €	18 20 18
max. Earth dist.	9095 Apr 05 20:12	17° Υ 12'14	1.45237 AU	morning set	9096 Mar 01 22:22	5°) 14'46	
max. Earth dist.	9093 Apr 03 20.12	17 12 14	1.43237 AU	desc. node	9096 Mar 01 22:22 9096 Mar 01 22:00	5° X 13'18	
superior conj	9095 Apr 08 07:16	21° Y 04'44	2005122	desc. Hode	9090 Wai 01 22.00	3 X 13 18	
	9095 Apr 08 01:14	20° Y $40'56$		aumorior comi	0006 Mar 17 12:21	29°) (54'45	1929140
minimum elong	•		2 03 11	superior conj	9096 Mar 17 12:31		
	9095 Apr 13 22:06	0° 8		minimum elong	9096 Mar 17 02:55	29°) 17'08 0° Υ	1-3/42
evening rise	9095 Apr 23 03:00	14° 8 52'53		75 at 15 a	9096 Mar 17 13:51		1 45550 433
	9095 May 02 10:12	0°II		max. Earth dist.	9096 Mar 18 15:39	1° Y 40'57	1.45573 AU
asc. node	9095 May 08 15:10	9° Ⅱ 19'54		evening rise	9096 Apr 02 11:51	24° Y 54'32	
evening max el	9095 May 13 01:19	14° Ⅱ 39'59	18°28'03		9096 Apr 05 17:43	0° 8	
retrograde	9095 May 19 12:16	18° Ⅱ 09'31		greatest brilliancy	9096 Apr 13 01:01	11° 8 22'51	-0.8m
evening set	9095 May 22 15:15	17° Ⅱ 15'01		asc. node	9096 Apr 24 12:18	27° 8 16'37	
inferior conj	9095 May 28 09:38	11° Ⅱ 43'54	3°13'05	evening max el	9096 Apr 25 10:58	28° 8 16'19	19°05'28
minimum elong	9095 May 28 11:00	11° Ⅱ 39'52	3°12'42		9096 Apr 27 08:37	Π $^{\circ}0$	
min. Earth dist.	9095 May 30 14:09	9° Ⅱ 08'42	0.64729 AU	retrograde	9096 May 02 08:06	2° Ⅱ 07'35	
morning rise	9095 Jun 03 05:49	5° Ⅲ 27'02		evening set	9096 May 05 18:54	0° Ⅱ 58'21	
direct	9095 Jun 09 21:09	2° Ⅱ 43'24			9096 May 07 00:58	30°₽ ႘	
desc. node	9095 Jun 12 00:59	2° Ⅱ 58'47		inferior conj	9096 May 11 06:42	25° 8 11'26	3°21'21
morning max el	9095 Jun 23 10:41	10° Ⅱ 40'34	27°19'49	minimum elong	9096 May 11 06:47	25° 8 11'10	3°21'08
	9095 Jul 08 16:28	0 \circ \odot		min. Earth dist.	9096 May 12 19:57	23° 8 12'17	0.66333 AU
	9095 Jul 26 12:35	$0^{\circ}\Omega$		morning rise	9096 May 16 18:12	18° 8 52'15	
morning set	9095 Jul 28 19:59	4° Ω 26′18		direct	9096 May 23 01:29	16° ප 07'21	
max. Earth dist.	9095 Aug 02 10:22	13° Ω 39'57	1.33347 AU	desc. node	9096 May 28 21:59	18° 8 00'26	
asc. node	9095 Aug 04 14:28	18° Ω 10'55		morning max el	9096 Jun 04 21:20	23° 8 46'02	26°18'37
	C			C	9096 Jun 10 10:45	0° Ⅱ	
superior conj	9095 Aug 06 01:44	21° Ω 17'05	0°14'43		9096 Jul 01 01:29	0ಂಣ	
minimum elong	9095 Aug 06 01:00	21° Ω 13'12	0°14'22	morning set	9096 Jul 10 21:43	17° © 21'41	
behind sun begin	9095 Aug 05 22:32	21° Ω 00'08		max. Earth dist.	9096 Jul 14 20:56	24°956'41	1.34898 AU
behind sun end	9095 Aug 06 03:27	21° Ω 26'16			9096 Jul 17 10:11	$0^{\circ}\Omega$	
	9095 Aug 10 03:26	0° m)				• ••	
evening rise	9095 Aug 13 05:34	6° m 35'49		superior conj	9096 Jul 19 22:47	5° Ω 07'20	-0°15'11
	9095 Aug 25 15:40	0∘ ಹ		minimum elong	9096 Jul 19 23:39	5°Ω11'50	
evening max el	9095 Sep 03 09:53	11° ≏ 11'20	22°12'32	behind sun begin	9096 Jul 19 21:45	5° Ω 02'02	0 10 1 .
desc. node	9095 Sep 07 23:43	14° £ 54'47	22 1232	behind sun end	9096 Jul 20 01:34	5° Ω 21'40	
retrograde	9095 Sep 16 05:36	17° ♀ 34'25		asc. node	9096 Jul 21 11:27	8° Ω 16'19	
evening set	9095 Sep 19 09:32	17° ⊆ 12'14		evening rise	9096 Jul 27 14:20	21° Ω 01'52	
min. Earth dist.	9095 Sep 27 15:30	13° ⊆ 35'46	0.54861 AU	evening rise	9096 Aug 01 00:46	0° m	
inferior conj	9095 Sep 28 09:19	13° ⊆ 10'45		evening max el	9096 Aug 15 08:00	21°Mp46'04	20°43'24
minimum elong	9095 Sep 28 01:53	13° ⊆ 21'11		desc. node	9096 Aug 24 20:51	27° mp 16'31	20 1321
morning rise	9095 Oct 06 19:52	9° £ 23'18	5 10 11	retrograde	9096 Aug 26 17:53	27° m) 25'27	
direct	9095 Oct 10 04:30	8° £ 58'09		evening set	9096 Aug 28 21:04	27° mg 14'24	
morning max el	9095 Oct 22 00:22	14° £ 32'04	21°29'50	inferior conj	9096 Sep 07 01:46	27 m/14 24 23° m/17'44	3050138
asc. node	9095 Oct 31 14:23	26° £ 48'45	21 29 30	minimum elong		23° m) 31'19	
asc. node	9095 Nov 02 12:13	0°M		min. Earth dist.	9096 Sep 06 16:17	23° my 45'22	0.54711 AU
mamina aat	9095 Nov 11 09:25	บาน 17° M L12'44			9096 Sep 08 00:22 9096 Sep 15 11:24	19° m) 18'41	0.34/11 AU
morning set		0° √		morning rise	*		
	9095 Nov 17 11:05	0-×,		direct	9096 Sep 19 12:33	18° Mp 43'36	22012140
	0005 N 10 15 00	20 705155	1020102	morning max el	9096 Oct 02 16:23	25° m 03'15	23°12'49
superior conj	9095 Nov 18 15:00	2° ×1 25'57		1	9096 Oct 07 06:24	0° ⊽	
minimum elong	9095 Nov 18 16:10	2° 🗷 32'03	1°38'13	asc. node	9096 Oct 17 11:20	15° Ω 26'29	
max. Earth dist.	9095 Nov 22 22:22	11°×14'23	1.35025 AU	•	9096 Oct 24 21:35	0°M	
evening rise	9095 Nov 27 02:54	19° ∡ 724'35		morning set	9096 Oct 25 20:48	2°M02'24	
	9095 Dec 02 22:05	0°る			000637	1 = c w	10.46:
desc. node	9095 Dec 04 22:19	3° ට 28'31		superior conj	9096 Nov 01 19:53	17°M02'08	1°40'51
	9095 Dec 22 14:26	0° ≈		minimum elong	9096 Nov 01 19:48	17°M01'39	1°41'02
evening max el	9096 Jan 01 09:35	11° ≈ 11'24	26°40'12	max. Earth dist.	9096 Nov 04 17:32	23°M12'32	1.33479 AU
retrograde	9096 Jan 14 10:46	18° ≈ 29'25		_	9096 Nov 08 00:28	0° ∡	
evening set	9096 Jan 20 21:57	15° ≈ 55'11		evening rise	9096 Nov 09 13:35	3° ∡ 05'56	

desc. node	9096 Nov 20 19:23	23° ∡ ³37'48		superior conj	9097 Oct 17 05:03	1°M48'15	1°37'23
	9096 Nov 24 17:56	0°ರ		minimum elong	9097 Oct 17 03:54	1° M 41'55	1°37'27
evening max el	9096 Dec 13 22:25	24° පි 41'02	27°18'38	max. Earth dist.	9097 Oct 18 20:18	5°M22'49	1.32382 AU
C	9096 Dec 20 18:28	0° ≈		evening rise	9097 Oct 24 10:08	17°M12'56	
retrograde	9096 Dec 27 10:42	2°≈02'34			9097 Oct 30 23:02	0° ⊼ ¹	
renograde				1 1			
	9097 Jan 02 13:07	30°Rる		desc. node	9097 Nov 07 16:29	13° ∡ 22'54	
evening set	9097 Jan 03 07:11	29° る 27'38			9097 Nov 19 07:58	0°ಕ	
min. Earth dist.	9097 Jan 07 03:38	25°₹54'08	0.64670 AU	evening max el	9097 Nov 26 09:11	7° る 43'56	27°29'28
inferior conj	9097 Jan 09 12:19	23° る 20'57	-1°18'49	retrograde	9097 Dec 10 03:49	15° る 01'57	
minimum elong	9097 Jan 09 14:44	23° る 14'26	1°17'33	evening set	9097 Dec 17 05:13	12° る 34'58	
asc. node	9097 Jan 13 10:46	19° る 29'56		min. Earth dist.	9097 Dec 20 22:13		0.62859 AU
	9097 Jan 15 23:53	17°る53'44				6° 云 47'43	
morning rise				inferior conj	9097 Dec 23 17:30		
direct	9097 Jan 18 13:24	17° る 19'40		minimum elong	9097 Dec 23 22:18	6° ප 36'03	2°26'57
morning max el	9097 Jan 24 23:40	20° ⋜ 41'43	17°55'12	morning rise	9097 Dec 30 17:33	1° る 36'52	
	9097 Feb 01 02:47	0° ≈		asc. node	9097 Dec 31 07:49	1° る 25'50	
morning set	9097 Feb 11 08:15	16° ≈ 43'16		direct	9098 Jan 02 00:58	1° る 12'04	
desc. node	9097 Feb 16 18:55	25°≈46'06		morning max el	9098 Jan 08 17:02	4°る37'22	17°47'33
	9097 Feb 19 08:49	0°) €		morning set	9098 Jan 24 18:41	29° る 22'20	
	909/1°C0 19 00.49	0 /		morning set			
					9098 Jan 25 03:16	0° ≈	
superior conj	9097 Feb 25 02:25	9° ₩ 15'38		desc. node	9098 Feb 03 15:50	16° ≈ 26′08	
minimum elong	9097 Feb 24 19:49	8° ∺ 49'17	0°57'14				
max. Earth dist.	9097 Mar 01 11:09	16° ₩ 11'02	1.45166 AU	superior conj	9098 Feb 05 14:31	19° ≈ 41'41	-0°14'21
	9097 Mar 10 07:56	0 $^{\circ}$ $\mathbf{\Upsilon}$		minimum elong	9098 Feb 05 13:04	19° ≈ 35'39	0°13'57
evening rise	9097 Mar 13 03:24	4° Υ 19'46		behind sun begin	9098 Feb 05 08:28	19° ≈ 16'30	
greatest brilliancy	9097 Mar 27 20:20	26° Y 32'03	-0.6m	behind sun end	9098 Feb 05 17:39	19°≈54'46	
greatest offinality			-0.0111	beiling sun eng			
	9097 Mar 30 05:57	0° 8			9098 Feb 11 21:40	0° ∀	
evening max el	9097 Apr 08 15:43	11° 8 55'32	19°58'53	max. Earth dist.	9098 Feb 12 04:13	0° ∺ 26′15	1.44063 AU
asc. node	9097 Apr 11 09:26	14° 8 21'33		evening rise	9098 Feb 20 15:11	13°) (44′14	
retrograde	9097 Apr 16 06:25	16° 8 19'00			9098 Mar 03 09:35	0° Y	
evening set	9097 Apr 20 01:47	14° 8 54'41		evening max el	9098 Mar 22 14:58	25° Ƴ 36'31	21°05'44
inferior conj	9097 Apr 25 10:00	8° 8 53'47	3°15'58	Č	9098 Mar 28 09:04	0° ႘	
minimum elong	9097 Apr 25 08:59	8° 8 57'13	3°15'43	asc. node	9098 Mar 29 06:33	0° 8 20'27	
•	*					0° 8 39'14	
min. Earth dist.	9097 Apr 26 08:43	7° 8 37'11	0.67503 AU	retrograde	9098 Mar 31 04:54	_	
morning rise	9097 Apr 30 15:55	2° 8 35'42			9098 Apr 02 20:45	30° ₹ Υ	
direct	9097 May 06 11:52	29° Ƴ 59'38		evening set	9098 Apr 04 09:58	28° Y 59'37	
	9097 May 06 04:50	30° ŖƳ		inferior conj	9098 Apr 09 17:04	22° Y 46'56	2°59'17
	9097 May 06 18:56	9° 8		minimum elong	9098 Apr 09 15:16	22° Y 53′10	2°58'51
desc. node	9097 May 15 18:58	4° 8 41'31		min. Earth dist.	9098 Apr 10 02:19	22° Ƴ 14'51	0.68224 AU
morning max el	9097 May 18 07:01	7° 8 04'21	24°58'22	morning rise	9098 Apr 14 20:21	16° Ƴ 32'08	
	9097 Jun 05 03:11	0°II	2.0022	direct	9098 Apr 20 03:06	14° Υ 12'27	
morning sat							22920110
morning set	9097 Jun 23 06:48	29° Ⅱ 28'01		morning max el	9098 Apr 30 16:19		23°29'19
	9097 Jun 23 13:59	0ಂತಾ		desc. node	9098 May 02 15:55	22° Y 35'30	
max. Earth dist.	9097 Jun 26 21:26	6°900'26	1.36869 AU		9098 May 08 19:20	$8^{\circ 0}$	
					9098 May 29 08:13	Π $^{\circ}0$	
superior conj	9097 Jul 03 09:50	18° © 25'35	-0°47'16	morning set	9098 Jun 04 17:53	10° Ⅲ 31′27	
minimum elong	9097 Jul 03 12:47	18°940'04	0°46'59	max. Earth dist.	9098 Jun 08 17:29	17° Ⅲ 22'07	1.39103 AU
asc. node	9097 Jul 08 08:27	28°9517'04			9098 Jun 15 17:38	0ಂಣ	
	9097 Jul 09 04:50	0°Ω					
evening rise	9097 Jul 11 18:23	5° Ω 10'45		superior conj	9098 Jun 16 07:12	1°503'12	1010/10
evening rise							
	9097 Jul 26 01:55	0° m	10025	minimum elong	9098 Jun 16 12:14	1°526'39	1~18'48
evening max el	9097 Jul 28 19:38	3°Mp04'23	19°32'57	asc. node	9098 Jun 25 05:27	18° © 09'19	
retrograde	9097 Aug 07 12:30	7° m 52'16		evening rise	9098 Jun 25 14:54	18° © 55'10	
evening set	9097 Aug 09 08:42	7° m 42'40			9098 Jul 01 11:21	$0^{\circ}\Omega$	
desc. node	9097 Aug 11 18:00	7° ™ 03'39		evening max el	9098 Jul 11 19:19	15° Ω 07'23	18°43'22
inferior conj	9097 Aug 18 03:10	3° m/ 37'55	-1°57'42	retrograde	9098 Jul 19 23:38	19° Ω 11'23	-
	-			•		18° Ω 57'32	
minimum elong	9097 Aug 17 21:51	3° Mp 46'23		evening set	9098 Jul 21 23:52		0006122
min. Earth dist.	9097 Aug 20 12:20		0.55518 AU	inferior conj	9098 Jul 29 23:44	14° Ω 35'00	
	9097 Aug 24 07:12	30°R Ω		minimum elong	9098 Jul 29 23:28	14° Ω 35'30	
morning rise	9097 Aug 26 08:35	29° Ω 08′25		transit middle	9098 Jul 29 23:28	14° Ω 35'30	0°06'39
direct	9097 Aug 31 05:04	28° Ω 15'35		transit begin	9098 Jul 29 20:07	14° Ω 41'40	
	9097 Sep 07 00:17	0° m)		transit end	9098 Jul 30 02:48	14° Ω 29'18	
morning max el	9097 Sep 14 04:27		24°58'18	desc. node	9098 Jul 29 15:08	14° Ω 50'51	
0	9097 Oct 01 21:26	0ಂ ರ		min. Earth dist.	9098 Aug 02 04:36	12° Ω 13'50	0.57127 AU
asc. node	9097 Oct 04 08:16	ა _ 4° _ 35'21		morning rise	9098 Aug 06 19:36	9° Ω 28′28	0.0,12,710
				•	=		
morning set	9097 Oct 10 08:30	16° £ 50'07		direct	9098 Aug 12 11:50	8° Ω 09'27	26020121
	9097 Oct 16 09:21	0° M		morning max el	9098 Aug 26 19:19	15° Ω 38'37	26°29'21
					9098 Sep 07 10:36	0°Щ	

asa mada	0000 Can 21 05:12	240 mm 07!15			0000 Aug 11 21:57	000	
asc. node	9098 Sep 21 05:12 9098 Sep 24 01:37	24° Mp 07'15 0° <u> </u>			9099 Aug 11 21:57 9099 Aug 31 23:28	0° N 0° N	
morning set	9098 Sep 24 01.57 9098 Sep 24 18:54	0 == 1° £ 31'29		asc. node	9099 Aug 31 23:28 9099 Sep 08 02:07	עווי ט 13° m אווי 55'10	
morning set	9096 Sep 24 16.54	1 = 31 29		morning set	9099 Sep 09 02:20	16°Mp01'31	
superior conj	9098 Oct 01 16:25	16° ≏ 37'56	1°28'12	max. Earth dist.	9099 Sep 15 14:29	0° £ 09'28	1.31582 AU
minimum elong	9098 Oct 01 14:31	16° ⊆ 27'23	1°28'05	max. Earth dist.	9099 Sep 15 12:47	0° ⊡	1.31302 110
max. Earth dist.	9098 Oct 02 04:27	10 ⊆ 27 23	1.31752 AU		7077 Бер 13 12.47	٥ –	
max. Dartii dist.	9098 Oct 07 19:14	0°M	1.51752710	superior conj	9099 Sep 16 04:07	1° ≏ 25'07	1°13'45
evening rise	9098 Oct 08 13:45	1°M38'00		minimum elong	9099 Sep 16 01:53	1° ⊆ 23°07	
e vennig 1190	9098 Oct 23 21:45	0° ⊼ ¹		evening rise	9099 Sep 22 22:02	16° Ω 14'02	1 10 20
desc. node	9098 Oct 25 13:34	2° × ⁷ 34'14		evening noe	9099 Sep 29 16:54	0°M	
evening max el	9098 Nov 08 15:29	20° × 07'49	27°07'37	desc. node	9099 Oct 12 10:42	20°M58'36	
retrograde	9098 Nov 22 12:54	27° × 18'41	2, 0, 3,	acco. no ac	9099 Oct 19 21:17	0° √	
evening set	9098 Nov 29 12:25	25°×709'42		evening max el	9099 Oct 21 14:33	1° х 42′18	26°11'56
min. Earth dist.	9098 Dec 03 06:11	22° × ¹ 26'57	0.60833 AU	retrograde	9099 Nov 04 12:30	8° √ 46'29	20 1100
inferior conj	9098 Dec 06 09:01	19° х 47'19		evening set	9099 Nov 11 00:17	7° ₹ 05'10	
minimum elong	9098 Dec 06 15:57	19° ∡ ³32'27		min. Earth dist.	9099 Nov 15 03:34		0.58739 AU
morning rise	9098 Dec 13 21:54	14° ₹ 56'00		inferior conj	9099 Nov 18 07:21	2°×10'12	
direct	9098 Dec 16 02:21	14° ∡ °36'47		minimum elong	9099 Nov 18 14:44	1° х 56′27	4°44'09
asc. node	9098 Dec 18 04:52	14° х 55'19			9099 Nov 21 08:58	30°RM	
morning max el	9098 Dec 23 07:48	18° ≯ 14'00	17°58'23	morning rise	9099 Nov 26 07:33	27°M41'20	
S	9098 Dec 31 18:51	5°0		direct	9099 Nov 28 13:14	27° M 24'29	
morning set	9099 Jan 07 23:07	12° る 52'03		asc. node	9099 Dec 05 01:53	29°M57'46	
8	9099 Jan 17 09:48	0° ≈			9099 Dec 05 03:01	0° × 7⊓	
				morning max el	9099 Dec 06 16:28	1° х 22′24	18°29'18
superior conj	9099 Jan 18 03:54	1° ≈ 19'36	0°25'06	morning set	9099 Dec 22 16:12	26° ₹ 56'38	
minimum elong	9099 Jan 18 05:56	1°≈28'32	0°25'02	5 5	9099 Dec 24 06:16	0°8	
desc. node	9099 Jan 21 12:43	7° ≈ 09'41					
max. Earth dist.	9099 Jan 25 17:28	14° ≈ 13'32	1.42393 AU	superior conj	9099 Dec 31 15:20	14° る 00'25	0°56'29
evening rise	9099 Jan 31 14:05	23° ≈ 43'22		minimum elong	9099 Dec 31 18:36	14° る 15'32	0°56'17
C	9099 Feb 04 14:14	0°) €		max. Earth dist.	9100 Jan 08 02:15	27° る 21'39	1.40344 AU
	9099 Feb 25 10:40	$0^{\circ}\mathbf{\Upsilon}$		desc. node	9100 Jan 08 09:39	27° る 53'36	
evening max el	9099 Mar 05 09:15	9° Ƴ 19'07	22°21'55		9100 Jan 09 15:09	0° ≈	
retrograde	9099 Mar 15 01:49	15° Y 03′24		evening rise	9100 Jan 12 09:00	4° ≈ 37'02	
asc. node	9099 Mar 16 03:40	14° Y 57'35			9100 Jan 28 18:55	0°) €	
evening set	9099 Mar 19 17:46	13° Y 08'36		evening max el	9100 Feb 16 00:04	23°) €04'30	23°42'03
inferior conj	9099 Mar 25 01:45	6° Ƴ 46'45	2°32'39	retrograde	9100 Feb 26 19:51	29°) €27'31	
minimum elong	9099 Mar 24 23:34	6° Ƴ 54'23	2°32'04	asc. node	9100 Mar 03 00:48	28°) €02'30	
min. Earth dist.	9099 Mar 24 22:29	6° Y 58'09	0.68504 AU	evening set	9100 Mar 03 23:44	27° ¥ 18'17	
morning rise	9099 Mar 30 05:12	0° Y 36'44		inferior conj	9100 Mar 09 10:15	20°) 50'42	1°56'57
	9099 Mar 30 23:59	30° ₹ ₩		minimum elong	9100 Mar 09 08:06	20°) 58′04	1°56'18
direct	9099 Apr 03 22:08	28°) 37′57		min. Earth dist.	9100 Mar 08 19:05	21°) 42'31	0.68359 AU
	9099 Apr 08 05:34	0 ° $\mathbf{\Upsilon}$		morning rise	9100 Mar 14 16:27	14°) (46′41	
morning max el	9099 Apr 13 04:18	4° Y 02'51	22°00'58	direct	9100 Mar 18 19:48	13° ∺ 10'18	
desc. node	9099 Apr 19 12:48	11° Y 21'44		morning max el	9100 Mar 26 22:31	17° ¥ 47'53	20°40'54
	9099 May 02 22:09	0°8			9100 Apr 05 20:23	0° Υ	
morning set	9099 May 16 02:14	20° 8 19'59		desc. node	9100 Apr 06 09:41	0° Y 46′10	
max. Earth dist.	9099 May 21 16:41	29° 8 31'07	1.41337 AU	morning set	9100 Apr 25 09:43	29° Y ′02'44	
	9099 May 21 23:35	Π $^{\circ}0$			9100 Apr 26 00:26	0°8	
		—		max. Earth dist.	9100 May 03 22:48	12° 8 35'01	1.43282 AU
superior conj	9099 May 29 10:19	12° Ⅱ 48'48					
minimum elong	9099 May 29 16:22	13° Ⅱ 15'33	1°47'22	superior conj	9100 May 10 14:45	23° 8 33'03	
	9099 Jun 07 21:11	0°9		minimum elong	9100 May 10 18:55	23° 8 50'30	2°07'22
evening rise	9099 Jun 09 00:15	2°505'30			9100 May 14 10:08	0°Ⅱ	
asc. node	9099 Jun 12 02:27	7°548'03		evening rise	9100 May 22 18:08	14° ∏ 31'50	
evening max el	9099 Jun 25 03:15	27°5546'06	18°14'19	asc. node	9100 May 29 23:29	27° Ⅱ 08'13	
, 1	9099 Jun 27 21:39	0° N			9100 May 31 16:50	0°95	1000454
retrograde	9099 Jul 02 06:00	1° Ω 21'13		evening max el	9100 Jun 08 15:38	10°951'13	18°04'54
evening set	9099 Jul 04 13:31	0° £ 59′10		retrograde	9100 Jun 15 04:25	14°513'10	
	9099 Jul 06 18:49	30°Rூ 30°Rூ	1022114	evening set	9100 Jun 17 19:31	13°5540'02	2022142
inferior conj	9099 Jul 11 17:59	26°5015'46	1°22'14	inferior conj	9100 Jun 24 07:36	8°936'50	
minimum elong	9099 Jul 11 20:27	26°5010'25	1°21'09	minimum elong	9100 Jun 24 10:30	8°529'34	
min. Earth dist.	9099 Jul 15 02:57	23°521'51	0.59227 AU	min. Earth dist.	9100 Jun 27 09:38	5°933'18	0.61484 AU
desc. node	9099 Jul 16 12:15	22°5016'24		morning rise	9100 Jun 30 23:14	2°935'27	
morning rise	9099 Jul 19 00:14	20°536'48		desc. node	9100 Jul 03 09:19	1°5513'19	
direct	9099 Jul 25 07:56	18°547'14	07001110	direct	9100 Jul 07 15:27	0°517'34	07055155
morning max el	9099 Aug 08 16:46	26° © 36'03	27°31'18	morning max el	9100 Jul 21 20:59	8° © 18'10	2/~55'56

	0100 4 07 10 06	00.0			0101 7 1 10 06 16		
	9100 Aug 07 12:06	0 ° Ω			9101 Jul 12 06:16	0°©	
morning set	9100 Aug 24 04:53	0° Mp 14′45			9101 Jul 31 13:59	0 $^{\circ}\Omega$	
	9100 Aug 24 02:01	O° Mp		morning set	9101 Aug 08 00:18	14° Ω 05'00	
asc. node	9100 Aug 25 23:01	3° M 53'42		asc. node	9101 Aug 12 19:58	23° Ω 58′28	
max. Earth dist.	9100 Aug 29 22:29	12° Mp 25'35	1.31881 AU	max. Earth dist.	9101 Aug 13 00:28	24° Ω 22'11	1.32664 AU
superior conj	9100 Aug 31 14:23	16° Mp 04′12	0°54'22	superior conj	9101 Aug 15 21:20	0° Mp 29′54	0°30'25
minimum elong	9100 Aug 31 12:18	15° m 52'43	0°53'53	minimum elong	9101 Aug 15 19:56	0° M 22′22	0°29'58
	9100 Sep 06 22:46	0∘ ⊽			9101 Aug 15 15:47	0° m	
evening rise	9100 Sep 07 08:56	0° ჲ 54'40		evening rise	9101 Aug 22 20:34	15° Mp 34'32	
8 21	9100 Sep 23 02:45	0°M		8 21	9101 Aug 29 23:45	0∘ ⊽	
desc. node	9100 Sep 29 07:52	8° M .17'01		evening max el	9101 Sep 14 16:28	22° ≏ 40'22	23°09'18
evening max el	9100 Sep 25 07:32 9100 Oct 03 05:25	12°M26'25	24°47'58	desc. node	9101 Sep 14 10:28 9101 Sep 16 05:02	24° Ω 04'34	23 07 10
•			24 47 38		-		
retrograde	9100 Oct 17 01:09	19°M23'43		retrograde	9101 Sep 28 01:39	29° £ 21'17	
evening set	9100 Oct 22 12:20	18°M16'43		evening set	9101 Oct 02 01:27	28° Ω 46'28	
min. Earth dist.	9100 Oct 27 16:40	15°M31'50	0.56809 AU	min. Earth dist.	9101 Oct 09 01:40		0.55358 AU
inferior conj	9100 Oct 30 09:39	13°M46'54	-5°30'32	inferior conj	9101 Oct 10 16:26	24° ≏ 36'31	-5°34'35
minimum elong	9100 Oct 30 13:42	13°M40'20	5°29'58	minimum elong	9101 Oct 10 13:06	24° ≏ 41'22	5°34'16
morning rise	9100 Nov 07 17:19	9° ™ 40'41		morning rise	9101 Oct 19 02:45	20° £ 46′01	
direct	9100 Nov 10 05:26	9°M23'11		direct	9101 Oct 22 02:33	20° £ 24'44	
morning max el	9100 Nov 19 15:19	13°M51'39	19°21'59	morning max el	9101 Nov 02 01:30	25° £ 33'29	20°37'08
asc. node	9100 Nov 21 22:53	16°M19'40	-,,		9101 Nov 06 02:03	0°M	
ase. Houe	9100 Nov 30 20:24	0°×7'		asc. node	9101 Nov 08 19:52	3°M45'29	
. ,							
morning set	9100 Dec 06 17:47	11° ≯ 23′25		morning set	9101 Nov 21 00:56	26°M04'05	
					9101 Nov 22 22:31	0°⊀	
superior conj	9100 Dec 14 19:41	27° ∡ ¹28'49	1°19'03				
minimum elong	9100 Dec 14 22:39	27° ∡ ⁴43'14	1°18'59	superior conj	9101 Nov 28 12:22	11° ₹ 31'45	1°33'17
	9100 Dec 16 02:53	ರ∘ರ		minimum elong	9101 Nov 28 14:16	11° ∡ ′41′28	1°33'24
max. Earth dist.	9100 Dec 21 08:00	9° ප් 47'01	1.38158 AU	max. Earth dist.	9101 Dec 03 15:37	21° ∡ ¹44'56	1.36089 AU
evening rise	9100 Dec 25 01:36	16° පි 27'30		evening rise	9101 Dec 07 13:34	29° ₹ '09'01	
desc. node	9100 Dec 26 06:38	18° ප 33'41		Č	9101 Dec 08 00:39	6°0	
	9101 Jan 02 03:41	0° ≈		desc. node	9101 Dec 13 03:40	9° ට 05'58	
	9101 Jan 23 07:51	0° ∀		desc. Hode	9101 Dec 26 09:36	0°≈	
avanina may al	9101 Jan 29 13:16	6° ¥ 51'55	24950151	avanina may al	9102 Jan 12 02:28	0 ~ 20° ≈ 39'03	26°08'10
evening max el			24 39 31	evening max el	9102 Jan 12 02.28	20 ≈3903	20 08 10
retrograde	9101 Feb 10 09:59	13°) (45′38					
evening set	9101 Feb 16 02:16	11° ∺ 23'55					
asc. node	9101 Feb 17 21:57	9° ∺ 37'27					
min. Earth dist.	9101 Feb 20 13:56	6°) €22'43	0.67807 AU				
inferior conj	9101 Feb 21 16:41	4° 升 54'52	1°12'34				
minimum elong	9101 Feb 21 15:04	5°) 00′11	1°12'06				
	9101 Feb 25 21:33	30°R≈					
morning rise	9101 Feb 27 04:08	28°≈58'18					
direct	9101 Mar 02 18:52	27° ≈ 43'17					
	9101 Mar 08 01:53	0°) €					
morning max el	9101 Mar 10 00:36	1°) 44′32	19°33'51				
	9101 Mar 10 00:30	18°) (20'07					
greatest brilliancy desc. node	9101 Mar 24 06:33	20° H 37'58	·0. / III				
desc. Hode							
	9101 Mar 30 11:24	0°Υ 7° Υ 25150					
morning set	9101 Apr 04 07:45	7° Υ 25'59					
max. Earth dist.	9101 Apr 16 11:22	26° Y 22′50	1.44705 AU				
	9101 Apr 18 18:05	9° 8					
superior conj	9101 Apr 20 18:38	3° 8 13'59	-2°11'46				
minimum elong	9101 Apr 20 16:47	3° 8 06'34	2°11'53				
evening rise	9101 May 04 15:46	26° 8 03'36					
•	9101 May 07 00:01	$\Pi^{\circ}0$					
asc. node	9101 May 16 20:34	16° Ⅲ 03'11					
evening max el	9101 May 23 05:07	24° Ⅱ 14'15	18°14'24				
retrograde	9101 May 29 03:07 9101 May 29 14:13	27° I I37'23	10 1121				
•	•						
evening set	9101 Jun 01 12:46	26° Ⅱ 51'11	2000/51				
inferior conj	9101 Jun 07 12:31	21° II 29'59	3°00'51				
minimum elong	9101 Jun 07 14:35	21° Ⅲ 24'10	3°00'15				
min. Earth dist.	9101 Jun 10 01:43	18° ∏ 39'02	0.63621 AU				
morning rise	9101 Jun 13 15:01	15° Ⅱ 16′24					
direct	9101 Jun 20 08:32	12° Ⅱ 38'36					
desc. node	9101 Jun 20 06:22	12° Ⅲ 38′38					
morning max el	9101 Jul 04 05:44	20° Ⅱ 41′21	27°42'44				
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