min. Earth dist.	7600 Feb 19 21:08	3°Mp25'12	4.00056 AU	opposition	7605 Jul 28 00:29	11° ≈ 02'57	0°34'28
opposition	7600 Feb 21 09:28	3° Mp 12'50	-0°07'16	min. Earth dist.	7605 Jul 29 06:47	10° ≈ 53'16	4.46287 AU
	7600 Mar 18 05:28	30° Ŗ Ω		direct	7605 Sep 28 17:26	6° ≈ 01'40	
direct	7600 Apr 19 13:57	28° Ω 15'55			7605 Dec 21 20:54	15° ≈	
asc. node	7600 Apr 22 19:11	28° Ω 17'00		evening set	7606 Feb 01 02:21	23° ≈ 26'44	
uoe. noue	7600 May 21 23:48	0° m)		max. Earth dist.	7606 Feb 11 19:28	25°≈47'10	6.41638 AU
evening set	7600 Aug 24 05:57	17° m) 41'09		max. Earth dist.	7000100 11 17.20	25 7047 10	0.41030710
evening set	7000 Aug 24 05.57	17 11441 09		agnismation	7606 Eab. 12 21.42	2690014142	0°11'07
	7.00 0 0.00 07	2007 52120	0010127	conjunction	7606 Feb 13 21:42	26°≈14'43	
conjunction	7600 Sep 06 22:27	20° m 52'39	0°10'37	minimum elong	7606 Feb 13 21:42	26°≈14'44	0°11'11
minimum elong	7600 Sep 06 22:26	20° m 52'39	0°10'37	behind sun begin	7606 Feb 13 15:47	26°≈11'30	
behind sun begin	7600 Sep 06 16:01	20° Mp 48'55		behind sun end	7606 Feb 14 03:38	26° ≈ 17'58	
behind sun end	7600 Sep 07 04:51	20° m 56'22		morning rise	7606 Feb 26 15:09	29° ≈ 02'01	
max. Earth dist.	7600 Sep 09 10:41	21° m 27'48	6.07130 AU		7606 Mar 03 01:49	0°) €	
morning rise	7600 Sep 20 15:57	24° m 04'22		retrograde	7606 Jun 28 13:34	16° ¥ 13'24	
	7600 Oct 16 23:57	0∘ <u>v</u>		desc. node	7606 Jul 27 01:09	14°) 59'28	
retrograde	7601 Jan 26 16:34	ა — 13° ჲ 22'04		opposition	7606 Aug 28 11:44	11° X 20'50	0°03'17
•			4 15007 ATT	**	•		
min. Earth dist.	7601 Mar 25 21:28	8° ₾ 30'23	4.15227 AU	min. Earth dist.	7606 Aug 30 03:14	11°) €08'13	4.35348 AU
opposition	7601 Mar 27 09:28	8° 亚 18'13	0°36'52	direct	7606 Oct 29 17:50	6° ∺ 20'47	
direct	7601 May 25 13:25	3° ≏ 18'53		evening set	7607 Mar 04 02:55	24°) (18′47	
evening set	7601 Sep 29 02:59	21° ≏ 55'44		max. Earth dist.	7607 Mar 14 13:12	26°) 40′02	6.27770 AU
conjunction	7601 Oct 12 17:10	24° ₽ 58'48	0°36'31	conjunction	7607 Mar 16 20:51	27° ¥ 11'33	-0°16'04
minimum elong	7601 Oct 12 17:08	24° ♀ 58'47	0°36'34	minimum elong	7607 Mar 16 20:50	27°) 11'33	
max. Earth dist.	7601 Oct 14 15:55	25° Ω 25'04	6.23695 AU	behind sun begin	7607 Mar 16 19:46	27°) 10'57	0 10 02
morning rise	7601 Oct 26 07:07	28° ≏ 01'21	0.23073 AU	behind sun end	7607 Mar 16 21:54	27° H 12'09	
morning rise							
	7601 Nov 04 05:40	0°M		morning rise	7607 Mar 29 14:08	0° Υ 04'15	
	7602 Feb 01 14:45	15°M			7607 Mar 29 06:35	0° Υ	
retrograde	7602 Feb 27 20:48	16°M05'28		retrograde	7607 Aug 01 08:57	18° Ƴ 15′08	
	7602 Mar 25 21:59	15°RM		opposition	7607 Oct 01 00:47	13° Y 21′29	-0°42'31
opposition	7602 Apr 28 23:26	11° M .04'13	1°05'42	min. Earth dist.	7607 Oct 02 12:56	13° Y 09'50	4.19390 AU
min. Earth dist.	7602 Apr 28 00:20	11° M .11'55	4.31652 AU	direct	7607 Dec 01 03:54	8° Y 23'25	
direct	7602 Jun 28 12:05	6° ™ 03'09		evening set	7608 Apr 04 20:03	27° Y ′09'02	
	7602 Sep 19 04:30	15°M₁		max. Earth dist.	7608 Apr 15 21:46	29° Υ 44'44	6.11016 AU
	7602 Nov 01 17:30	23°M54'58		max. Earm dist.	-	0° 8	0.11010 AC
evening set	7002 NOV 01 17.30	23 11634 38			7608 Apr 16 23:44	0.0	
	7(02.) 15.02.46	260 m 40141	0040142		7600 4 17 15 21	00 00117	0020122
conjunction	7602 Nov 15 02:46	26°M49'41	0°49'43	conjunction	7608 Apr 17 15:31	0° 8 09'17	
minimum elong	7602 Nov 15 02:46	26° ™ 49'41	0°49'49	minimum elong	7608 Apr 17 15:30	0° 8 09'16	0°39'35
max. Earth dist.	7602 Nov 16 01:19	27°M01'58	6.38696 AU	morning rise	7608 Apr 30 11:20	3° 8 10'07	
morning rise	7602 Nov 28 10:14	29°M43'21			7608 Jun 24 08:56	15° 8	
	7602 Nov 29 17:04	0° ∡ ¹		retrograde	7608 Sep 05 20:58	22° 8 36'33	
retrograde	7603 Mar 30 06:05	16° ∡ 750′52		opposition	7608 Nov 05 01:13	17° 8 40'45	-1°10'27
opposition	7603 May 29 18:47	11° ∡ ¹53'07	1°13'46	min. Earth dist.	7608 Nov 05 22:17	17° \3 33'52	4.03187 AU
min. Earth dist.	7603 May 29 13:21	11° × 754'54	4.44183 AU		7608 Nov 26 16:38	15°R₩	
direct	7603 Jul 30 12:06	6° ×7'51'20	4.44105710	direct	7609 Jan 03 18:03	12° 8 45'05	
		24°×13'20		direct		_	
evening set	7603 Dec 03 09:16	24° X '13'20			7609 Feb 10 05:59	15° 8	
		-			7609 Apr 30 02:39	0° Π	
conjunction	7603 Dec 16 12:42	27° ∡ °02′11	0°48'26	evening set	7609 May 09 19:56	2° Ⅱ 19'12	
minimum elong	7603 Dec 16 12:43	27° ∡ ′02′11	0°48'33				
max. Earth dist.	7603 Dec 16 04:16	26° ₹ 57'39	6.47844 AU	conjunction	7609 May 22 20:05	5° Ⅱ 27'53	-0°50'15
morning rise	7603 Dec 29 14:02	29° ∡ ¹49'55		minimum elong	7609 May 22 20:05	5° Ⅱ 27'53	0°50'21
	7603 Dec 30 08:59	0°ರ		max. Earth dist.	7609 May 22 05:55	5° Ⅱ 19'19	5.96852 AU
retrograde	7604 Apr 27 23:49	16° ප් 28'11		morning rise	7609 Jun 04 22:16	8° Ⅲ 37'52	
opposition	7604 Jun 27 18:55	11° ろ 33'28	1°02'03	retrograde	7609 Oct 14 07:38	29° ∏ 09'41	
**				•			1012110
min. Earth dist.	7604 Jun 28 09:59	11° る 28'37	4.49480 AU	opposition	7609 Dec 13 00:46	24° I 10'37	
direct	7604 Aug 29 08:27	6° ප 31'37		min. Earth dist.	7609 Dec 12 20:26		3.92584 AU
evening set	7605 Jan 01 20:30	23° る 44'15		direct	7610 Feb 09 09:57	19° Ⅱ 16'19	
max. Earth dist.	7605 Jan 13 09:09	26° る 12'32	6.48894 AU		7610 May 06 16:38	0 \circ \odot	
				evening set	7610 Jun 15 22:31	9° 5 519'18	
conjunction	7605 Jan 14 19:11	26° る 30'50	0°34'22				
minimum elong	7605 Jan 14 19:13	26° පි 30'50	0°34'27	conjunction	7610 Jun 29 06:12	12° 5 34'22	-0°41'43
morning rise	7605 Jan 27 15:34	29° ට 16'24		minimum elong	7610 Jun 29 06:13	12° © 34'23	
<i>5</i>	7605 Jan 31 01:19	0° ≈		max. Earth dist.	7610 Jun 30 06:01	12°5948'57	5.90884 AU
		J . J .			. 010 0011 50 00.01		2., 500 1 110
	7605 May 03 00.02	15°~~		morning rice	7610 Jul 12 16:20	1500220121	
ratra ara da	7605 May 03 08:02	15°≈ 15°0055'54		morning rise	7610 Jul 12 16:28	15°950'54	
retrograde	7605 May 28 00:34	15° ≈ 55'54			7610 Sep 15 09:19	$0^{\circ}\Omega$	
retrograde	•			morning rise			

min. Earth dist.	7611 Jan 19 08:56	1° Ω 50′27	3.92044 AU	evening set	7617 Jan 06 01:35	27° ප් 59'21	
opposition	7611 Jan 20 11:15	1° Ω 41'31	-0°45'46		7617 Jan 15 10:28	0° ≈	
	7611 Feb 02 05:25	30° ₹ 5		max. Earth dist.	7617 Jan 17 10:16	0° ≈ 25'45	6.48406 AU
direct	7611 Mar 19 08:20	26°946'34		. ,.	7(17 1 10 22 27	0045152	0021121
	7611 May 02 18:11 7611 Jul 16 19:46	0° Ω 15° Ω		conjunction minimum elong	7617 Jan 18 23:37 7617 Jan 18 23:38	0°≈45'53 0°≈45'54	0°31'31 0°31'37
evening set	7611 Jul 24 00:44	16° Ω 43'00		morning rise	7617 Jan 31 19:30	0 ≈43 34 3°≈31'27	0 3137
evening set	7011 Jul 24 00.44	10 00-13 00		morning rise	7617 Apr 01 08:11	15° ≈	
conjunction	7611 Aug 06 15:02	19° Ω 58'52	-0°16'14	retrograde	7617 Jun 01 08:20	20°≈13'31	
minimum elong	7611 Aug 06 15:03	19° Ω 58'53	0°16'19	opposition	7617 Aug 01 07:36	15° ≈ 20'43	0°29'35
max. Earth dist.	7611 Aug 08 20:31	20° Ω 31'01	5.95787 AU	min. Earth dist.	7617 Aug 02 16:47	15° ≈ 10′08	4.45168 AU
morning rise	7611 Aug 20 07:30	23° Ω 15'42			7617 Aug 04 00:33	15°R ≈	
	7611 Sep 18 11:20	0° m ∕		direct	7617 Oct 03 01:21	10° ≈ 19'32	
retrograde	7611 Dec 29 01:47	13° m 33'05			7617 Nov 30 11:54	15° ≈	
min. Earth dist.	7612 Feb 24 22:33	8° Mp 41'38	4.01818 AU	evening set	7618 Feb 05 08:30	27°≈48'06	
opposition	7612 Feb 26 12:40	8° Mp 28'39	-0°00'31	E d F	7618 Feb 15 09:02	0°) €	6 20050 ATT
asc. node	7612 Mar 01 22:38	7° Mp 52'42		max. Earth dist.	7618 Feb 15 22:25	0° H 0/22	6.39958 AU
direct evening set	7612 Apr 24 18:34 7612 Aug 29 11:30	3° My 31'25 22° My 50'15		conjunction	7618 Feb 18 03:33	0°) 36'37	0°07'24
evening set	7012 Aug 29 11.30	22 IIJ 30 13		minimum elong	7618 Feb 18 03:33	0° X 36'37	0°07'27
conjunction	7612 Sep 12 03:47	26° Mp 00'38	0°14'52	behind sun begin	7618 Feb 17 20:16	0° ₩ 32'38	0 07 27
minimum elong	7612 Sep 12 03:46	26° Mp 00'37		behind sun end	7618 Feb 18 10:49	0° ¥ 40'36	
behind sun begin	7612 Sep 12 00:49	25° m 58'55		morning rise	7618 Mar 02 20:56	3°) €24'31	
behind sun end	7612 Sep 12 06:43	26° m/02'20		desc. node	7618 Jun 05 16:48	19°) 34′05	
max. Earth dist.	7612 Sep 14 14:46	26° Mp 34'52	6.09396 AU	retrograde	7618 Jul 03 02:47	20°) 43′01	
morning rise	7612 Sep 25 21:10	29° Mp 11'10		opposition	7618 Sep 02 00:56	15° ∺ 50'18	-0°08'58
	7612 Sep 29 10:18	0∘ ⊽		min. Earth dist.	7618 Sep 03 16:13		4.33201 AU
retrograde	7613 Jan 31 08:30	18° ≏ 17'44		direct	7618 Nov 03 03:28	10° ¥ 50′27	
min. Earth dist.	7613 Mar 30 16:52	13° ≙ 25'50	4.17730 AU	evening set	7619 Mar 08 13:58	28°) 54′54	
opposition	7613 Apr 01 03:42	13° £ 14'03	0°42'07	P. J. P.	7619 Mar 13 09:02	0° Υ	6 0 5 0 0 T 1 X X
direct	7613 May 30 12:29	8° £ 14'22		max. Earth dist.	7619 Mar 19 02:17	1° Ƴ 18′02	6.25327 AU
evening set	7613 Oct 04 00:19	26° ≏ 43'39		conjunction	7619 Mar 21 08:04	1° Ƴ 48'41	0°10'48
conjunction	7613 Oct 17 14:03	29° ≙ 45'23	0°39'15	minimum elong	7619 Mar 21 08:03	1° Υ 48'40	0°19'48
minimum elong	7613 Oct 17 14:03	29° ≏ 45'22	0°39'18	morning rise	7619 Apr 03 01:23	4° Υ 42'25	0 1740
g	7613 Oct 18 16:12	0°M	0 37 10	retrograde	7619 Aug 06 08:42	23° Y '03'54	
max. Earth dist.	7613 Oct 19 11:17	0° M ₊10'40	6.26216 AU	opposition	7619 Oct 05 22:37	18° Ƴ 10′03	-0°47'28
morning rise	7613 Oct 31 02:59	2°M46'27		min. Earth dist.	7619 Oct 07 10:05	17° Ƴ 58'37	4.16824 AU
	7613 Dec 31 08:57	15°M₀		direct	7619 Dec 05 21:42	13° Y 12′21	
retrograde	7614 Mar 04 05:20	20°M40'27			7620 Mar 31 14:47	9° 8	
opposition	7614 May 03 09:50	15°M39'41	1°08'05	evening set	7620 Apr 09 15:04	2° 8 05'50	
min. Earth dist.	7614 May 02 12:37	15°M46'44	4.33964 AU	max. Earth dist.	7620 Apr 20 18:51	4° 8 43'40	6.08553 AU
	7614 May 08 09:50	15°RM			7.00 4 00 10 54	501 10 510 0	00.4010.1
direct	7614 Jul 03 03:07	10°MJ38'31		conjunction	7620 Apr 22 10:54	5° と 07'20 5° と 07'19	
ovening set	7614 Aug 27 13:30 7614 Nov 06 06:44	15°M 28°M24'14		minimum elong morning rise	7620 Apr 22 10:52 7620 May 05 07:35	8° 8 09'34	0-4203
evening set	7614 Nov 13 15:42	28 11624 14 0° 🗷		morning rise	7620 Jun 04 07:41	15° 8	
	7014 NOV 13 13.42	• ^		retrograde	7620 Sep 11 04:34	27° 8 47'15	
conjunction	7614 Nov 19 15:00	1° ∡ 17'48	0°50'23	opposition	7620 Nov 10 07:40	22° 8 51'02	-1°12'38
minimum elong	7614 Nov 19 14:59	1° ∡ 17'48	0°50'28	min. Earth dist.	7620 Nov 11 00:30		4.01079 AU
max. Earth dist.	7614 Nov 20 07:53	1° ∡ ¹26'59	6.40610 AU	direct	7621 Jan 08 18:44	17° 8 55'39	
morning rise	7614 Dec 02 21:41	4° ∡ 10′22			7621 Apr 12 06:23	$\Pi^{\circ}0$	
retrograde	7615 Apr 03 10:47	21° ∡ 11′28		evening set	7621 May 14 23:15	7° Ⅱ 36′02	
opposition	7615 Jun 03 00:29	16° ∡ 14'10	1°13'12				
min. Earth dist.	7615 Jun 02 22:40	16° ∡ 14'45	4.45587 AU	conjunction	7621 May 28 00:28	10° Ⅱ 45'54	
direct	7615 Aug 03 22:19	11° х 12'17		minimum elong	7621 May 28 00:28	10° Ⅱ 45'54	
evening set	7615 Dec 07 16:36	28° ∡ 31'07		max. Earth dist.	7621 May 27 16:53	10° Ⅱ 41'18	5.95332 AU
	7615 Dec 14 15:13	0°ਰ		morning rise	7621 Jun 10 03:38 7621 Aug 25 17:42	13° Ⅱ 57'04 0°໑	
conjunction	7615 Dec 20 19:27	1° る 19'24	0°47'08	retrograde	7621 Aug 23 17.42 7621 Oct 19 20:55	0 € 4°€35'28	
minimum elong	7615 Dec 20 19:27	1 31924 1° 3 19'24		renograde	7621 Dec 15 11:49	4 €33328 30°RⅡ	
max. Earth dist.	7615 Dec 20 07:58	1°る13'15	6.48641 AU	opposition	7621 Dec 18 12:02	29° II 35'51	-1°10'59
morning rise	7616 Jan 02 19:49	4° ප 06'31		min. Earth dist.	7621 Dec 18 04:39		3.91850 AU
retrograde	7616 May 02 01:51	20°る42'44		direct	7622 Feb 14 18:55	24° Ⅱ 41'38	
opposition	7616 Jul 01 23:12	15° る 48'20	0°58'59		7622 Apr 13 20:27	0ංම	
min. Earth dist.	7616 Jul 02 16:04	15° る 42'55	4.49640 AU	evening set	7622 Jun 21 07:22	14° © 45'38	
direct	7616 Sep 02 13:25	10° පි 46'32					

agniumation	7622 Jul 04 16:06	1000011110	0020156	min. Earth dist.	7620 1.1 06 22.25	100=52144	4.49315 AU
conjunction		18°501'10	0°39'02		7628 Jul 06 23:25	19 3 53 44	4.49313 AU
minimum elong	7622 Jul 04 16:08	18°901'11		direct	7628 Sep 06 19:20		
max. Earth dist.	7622 Jul 05 21:59	18°519'24	5.91019 AU	. ,	7628 Dec 30 19:02	0° ≈	
morning rise	7622 Jul 18 03:27	21°©18'05		evening set	7629 Jan 10 05:55	2°≈13'06	C 47444 ATT
. 1	7622 Aug 24 15:04	0°N		max. Earth dist.	7629 Jan 21 11:54	4°≈38'24	6.47444 AU
retrograde	7622 Nov 27 09:47	12° Ω 08'40	0020150		7/20 I 22 02 20	40 - 50151	0020124
opposition	7623 Jan 25 19:41	7° Ω 05'44		conjunction	7629 Jan 23 03:38	4°≈59'51	0°28'34
min. Earth dist.	7623 Jan 24 14:07	7° Ω 15'46	3.93060 AU	minimum elong	7629 Jan 23 03:39	4°≈59'52	0°28'40
direct	7623 Mar 24 16:18	2° Ω 10'32		morning rise	7629 Feb 04 23:00	7°≈45'38	
	7623 Jun 28 22:55	15° Ω		_	7629 Mar 12 04:07	15° ≈	
evening set	7623 Jul 29 09:09	22° Ω 02'09		retrograde	7629 Jun 05 15:03	24° ≈ 31'56	
				opposition	7629 Aug 05 15:13	19° ≈ 39'15	0°24'36
conjunction	7623 Aug 11 23:48	25° Ω 17'22		min. Earth dist.	7629 Aug 07 00:55	19° ≈ 28'30	4.43644 AU
minimum elong	7623 Aug 11 23:49	25° Ω 17'23	0°11'58		7629 Sep 21 18:46	15°R≈	
behind sun begin	7623 Aug 11 18:07	25° Ω 13'59		direct	7629 Oct 07 06:33	14° ≈ 38'17	
behind sun end	7623 Aug 12 05:31	25° Ω 20'47			7629 Oct 22 20:42	15° ≈	
max. Earth dist.	7623 Aug 14 06:29	25° Ω 50'05	5.97548 AU		7630 Jan 30 13:00	0° ∀	
morning rise	7623 Aug 25 16:47	28° £ 33'31		evening set	7630 Feb 09 15:38	2° 升 11'45	
	7623 Aug 31 19:21	0° m)		max. Earth dist.	7630 Feb 20 04:57	4°) €31'20	6.37985 AU
retrograde	7624 Jan 02 23:24	18° m)41'01					
asc. node	7624 Jan 10 23:50	18° m /34'31		conjunction	7630 Feb 22 10:24	5° ₩ 00'54	0°03'38
min. Earth dist.	7624 Feb 29 22:05	13° m 49'37	4.04105 AU	minimum elong	7630 Feb 22 10:24	5° ₩ 00'54	0°03'41
opposition	7624 Mar 02 12:41	13° Mp 36'28	0°06'02	behind sun begin	7630 Feb 22 02:31	4° ₩ 56'34	
direct	7624 Apr 29 22:05	8° m 38'49		behind sun end	7630 Feb 22 18:18	5°) €05'15	
evening set	7624 Sep 03 13:24	27° m 49'43		morning rise	7630 Mar 07 03:39	7°) 49'33	
	7624 Sep 12 23:42	0∘ ত		desc. node	7630 Apr 15 12:44	16°) €03'45	
				retrograde	7630 Jul 07 19:20	25° ℋ 16'13	
conjunction	7624 Sep 17 05:38	0° £ 58'50	0°18'52	opposition	7630 Sep 06 15:44	20° ∺ 23'30	-0°14'37
minimum elong	7624 Sep 17 05:37	0° £ 58'50	0°18'52	min. Earth dist.	7630 Sep 08 07:51	20° ℋ 10'39	4.30901 AU
max. Earth dist.	7624 Sep 19 16:27	1° £ 32'47	6.11995 AU	direct	7630 Nov 07 15:53	15° ¥ 23'58	
morning rise	7624 Sep 30 22:25	4° £ 07'56			7631 Feb 25 01:03	$_{0}$ $^{\circ}$ Υ	
retrograde	7625 Feb 04 22:15	23° ഫ 02'47		evening set	7631 Mar 13 02:39	3° Ƴ 35'23	
min. Earth dist.	7625 Apr 04 09:16	18° ≙ 10'35	4.20370 AU	max. Earth dist.	7631 Mar 23 15:18	5°Υ59'33	6.22882 AU
opposition	7625 Apr 05 18:20	17° ≏ 59'27	0°46'52				
direct	7625 Jun 04 08:06	12° ♀ 59'32		conjunction	7631 Mar 25 20:48	6° Ƴ 30'11	-0°23'25
	7625 Oct 02 14:23	0°M		minimum elong	7631 Mar 25 20:47	6° Υ 30'11	0°23'25
evening set	7625 Oct 08 17:45	1°ML21'08		morning rise	7631 Apr 07 14:31	9° Υ 25'05	0 23 23
evening sec	7020 000 00 17.10	1 110-21 00		retrograde	7631 Aug 11 08:38	27° Y 57'14	
conjunction	7625 Oct 22 06:39	4°ML21'30	0°41'37	opposition	7631 Oct 10 22:05	23° Υ 03'08	-0°52'08
minimum elong	7625 Oct 22 06:37	4°M21'29	0°41'42	min. Earth dist.	7631 Oct 10 22:03	22° Υ 52'40	4.14434 AU
max. Earth dist.	7625 Oct 22 00:37 7625 Oct 23 23:22	4°M44'08	6.28662 AU	direct	7631 Dec 10 15:28	18° Υ 05'47	4.14454 AO
morning rise	7625 Nov 04 18:51	7°M21'12	0.20002 710	uncet	7632 Mar 14 03:37	0°8	
morning risc	7625 Dec 11 01:24	15°M		evening set	7632 Apr 14 11:08	7° 8 06'22	
retrograde	7626 Mar 08 10:19	25°M05'57		max. Earth dist.	7632 Apr 25 20:45	9° 8 48'22	6.06433 AU
opposition	7626 May 07 16:57	20°M05'40	1°10'00	max. Earth dist.	7032 Apr 23 20.43	9 046 22	0.00433 AU
min. Earth dist.	7626 May 06 22:27	20°M11'48	4.36050 AU	conjunction	7632 Apr 27 07:33	10° 8 09'02	0044!12
direct	7626 Jul 07 14:39	15°M04'20	4.30030 AU	minimum elong	7632 Apr 27 07:33	10° 8 09'02	
direct	7626 Oct 28 18:36	0° ⊼		morning rise	7632 May 10 04:50	13° 8 12'30	0 44 17
evening set	7626 Nov 10 16:43	2° × 745'01		morning risc	7632 May 17 19:50	15° 8	
evening set	7020 NOV 10 10.43	2 7 4301			7632 Aug 03 06:21	0° Ⅱ	
anniumation	7626 Nov 24 00:19	5° ∡ ³37'40	0°50'44	ratragrada	7632 Sep 16 14:12	0 H 2°H59'59	
conjunction	7626 Nov 24 00:19 7626 Nov 24 00:19		0°50'50	retrograde	7632 Sep 16 14.12 7632 Oct 31 09:23	2 H3939 30°R ∀	
minimum elong		5°×737'40	6.42192 AU			28° 8 03'19	1014112
max. Earth dist.	7626 Nov 24 13:42	5° × 44'55	0.42192 AU	opposition	7632 Nov 15 14:38		
morning rise	7626 Dec 07 05:56	8° ₹ 29'14		min. Earth dist.	7632 Nov 16 04:54		3.99433 AU
retrograde	7627 Apr 07 12:40	25° ₹25'16	1012117	direct	7633 Jan 13 22:00	23° 8 08'12	
opposition	7627 Jun 07 03:48	20° ₹28'30	1°12'17	. ,	7633 Mar 22 12:28	0°Ⅱ 12°Ⅲ52157	
min. Earth dist.	7627 Jun 07 04:42	20° 🗷 28'13	4.46582 AU	evening set	7633 May 20 02:33	12° Ⅱ 52'57	
direct	7627 Aug 08 04:29	15° ₹ 26'40			7(22) 02 04 41	1.0011.0014.5	0940151
	7627 Nov 28 22:30	0°る 2° ろ 42147		conjunction	7633 Jun 02 04:41	16° Ⅱ 03'45	
evening set	7627 Dec 11 22:09	2°る43'47	C 40074 ATT	minimum elong	7633 Jun 02 04:41	16° Ⅱ 03'45	
max. Earth dist.	7627 Dec 24 07:01	5° る 22'29	6.48974 AU	max. Earth dist.	7633 Jun 02 02:12	16° Ⅱ 02'14	5.94310 AU
	E/0E D		004515	morning rise	7633 Jun 15 08:59	19° Ⅱ 15'54	
conjunction	7627 Dec 25 00:09	5° る 31'40	0°45'37		7633 Aug 01 13:59	0.22 0.22	
minimum elong	7627 Dec 25 00:10	5°₹31'40	0°45'44	retrograde	7633 Oct 25 06:29	9° © 58'19	400000
morning rise	7628 Jan 07 00:01	8° る 18'27		opposition	7633 Dec 23 21:07	4°958'14	
retrograde	7628 May 06 06:16	24°る54'20		min. Earth dist.	7633 Dec 23 09:40		3.91592 AU
opposition	7628 Jul 06 03:01	20° る 00'17	0°55'42	direct	7634 Feb 20 00:50	0° © 04'00	

evening set	7634 Jun 26 14:30	20° © 07'32		minimum elong	7639 Dec 29 06:12	9° ප් 47'18	0°43'56
				morning rise	7640 Jan 11 05:12	12° る 33'46	
conjunction	7634 Jul 10 00:05	23° © 23'15	-0°35'51	retrograde	7640 May 10 10:24	29° る 09'52	
minimum elong	7634 Jul 10 00:07	23° 5 23'16	0°35'57	opposition	7640 Jul 10 08:26	24° る 16'08	0°52'03
max. Earth dist.	7634 Jul 11 09:15	23° 5 43'27	5.91523 AU	min. Earth dist.	7640 Jul 11 06:21	24° る 09'07	4.48856 AU
morning rise	7634 Jul 23 12:30	26°5940'23		direct	7640 Sep 11 00:58	19° る 14'32	
	7634 Aug 06 10:30	$0^{\circ}\Omega$			7640 Dec 13 22:39	0° ≈	
	7634 Oct 24 07:07	15° Ω		evening set	7641 Jan 14 12:07	6° ≈ 30'58	
retrograde	7634 Dec 02 14:06	17° Ω 27'04		max. Earth dist.	7641 Jan 25 14:19	8° ≈ 54'39	6.46483 AU
	7635 Jan 10 20:45	15° Ŗ Ω					
min. Earth dist.	7635 Jan 29 17:20		3.94259 AU	conjunction	7641 Jan 27 09:12	9° ≈ 17'53	0°25'23
opposition	7635 Jan 31 00:54	12° Ω 23'43	-0°33'57	minimum elong	7641 Jan 27 09:13	9° ≈ 17'53	0°25'29
direct	7635 Mar 29 22:31	7° Ω 28'11		morning rise	7641 Feb 09 04:18	12° ≈ 03'54	
	7635 Jun 08 16:54	15°Ω		. <i>&</i>	7641 Feb 22 23:08	15° ≈	
evening set	7635 Aug 03 14:33	27° Ω 14'45		retrograde	7641 Jun 10 01:53	28°≈54'17	
evening sec	7635 Aug 15 04:32	0° m)		opposition	7641 Aug 10 00:58	24°≈01'44	0°19'21
	7033 Hug 13 01.32	O IIX		min. Earth dist.	7641 Aug 11 12:24	23°≈50'25	4.42255 AU
conjunction	7635 Aug 17 05:52	0° m 29'24	0°07'33	direct	7641 Oct 11 15:56	19°≈00'57	4.42233710
minimum elong	7635 Aug 17 05:52	0° Mp 29'24	0°07'36	direct	7642 Jan 13 14:35	0° \	
_	•	0° Mp 24'54	0 07 30	evening set	7642 Feb 13 23:52	6°₩38'27	
behind sun begin	7635 Aug 16 22:17			Č		8°\dagger 36'58	
behind sun end	7635 Aug 17 13:27	0° Mp 33'53	5.00220 444	desc. node	7642 Feb 22 22:13		(2 (2 0 2) 1 1 1
max. Earth dist.	7635 Aug 19 15:18	1° mp 03'36	5.99328 AU	max. Earth dist.	7642 Feb 24 12:56	8° ¥ 58'27	6.36293 AU
morning rise	7635 Aug 30 22:59	3° m/44'44				22/22/1	
asc. node	7635 Nov 21 04:40	20° m 12'16		conjunction	7642 Feb 26 18:29	9°) 28'11	
retrograde	7636 Jan 07 20:46	23° Mp 42'45		minimum elong	7642 Feb 26 18:30	9° ∺ 28'11	0°00'15
min. Earth dist.	7636 Mar 05 20:07	18° m y 51'07	4.06250 AU	behind sun begin	7642 Feb 26 10:35	9° ∺ 23'49	
opposition	7636 Mar 07 09:59	18° m 38'14	0°12'24	behind sun end	7642 Feb 27 02:25	9° ∺ 32'34	
direct	7636 May 04 23:09	13° m)40'15		morning rise	7642 Mar 11 11:36	12° 升 17′27	
	7636 Aug 27 11:15	0∘ ⊽		retrograde	7642 Jul 12 10:35	29° ¥ 51'16	
evening set	7636 Sep 08 13:11	2° ≏ 44'08		opposition	7642 Sep 11 07:40	24° ∺ 58'25	-0°20'15
				min. Earth dist.	7642 Sep 12 22:00	24°) 46′09	4.29034 AU
conjunction	7636 Sep 22 05:06	5° £ 52'05	0°22'41	direct	7642 Nov 12 03:33	19° ∺ 59'14	
minimum elong	7636 Sep 22 05:04	5° £ 52'04	0°22'42		7643 Feb 07 11:01	0 ° Υ	
max. Earth dist.	7636 Sep 24 13:55	6° £ 24'41	6.14299 AU	evening set	7643 Mar 17 15:33	8° Ƴ 15'50	
morning rise	7636 Oct 05 21:34	8° ♀ 59'57		max. Earth dist.	7643 Mar 28 07:06	10° Ƴ 42'17	6.20997 AU
retrograde	7637 Feb 09 08:47	27° £ 44'27					
min. Earth dist.	7637 Apr 08 23:13	22° ♀ 52'09	4.22629 AU	conjunction	7643 Mar 30 09:42	11° Y 11'24	-0°26'52
opposition	7637 Apr 10 07:05	22° £ 41'26	0°51'16	minimum elong	7643 Mar 30 09:41	11° Ƴ 11'24	0°26'53
direct	7637 Jun 09 00:45	17° - 41'13		morning rise	7643 Apr 12 03:36	14° Ƴ 07'09	
	7637 Sep 15 16:10	0° M		. <i>&</i>	7643 Jul 04 06:49	0°8	
evening set	7637 Oct 13 10:11	5°M56'41		retrograde	7643 Aug 16 09:46	2° 8 47'54	
8					7643 Sep 29 00:15	30° R Υ	
conjunction	7637 Oct 26 22:30	8°M55'56	0°43'45	opposition	7643 Oct 15 20:55	27° Υ 53'31	-0°56'22
minimum elong	7637 Oct 26 22:38	8°M55'56	0°43'48	min. Earth dist.	7643 Oct 17 03:54	27° Y 43′29	4.12671 AU
max. Earth dist.	7637 Oct 28 11:29	9°M16'25	6.30710 AU	direct	7643 Dec 15 11:17	22° Υ 56'31	1.120/1710
morning rise	7637 Nov 09 09:47	11°M54'24	0.50710710	ancer	7644 Feb 23 10:28	0°8	
morning risc	7637 Nov 23 16:12	15°M		evening set	7644 Apr 19 05:43	12° 8 01'49	
retrograde	7638 Mar 12 17:22	29°M31'21		max. Earth dist.	7644 Apr 30 19:14	14° 8 46'38	6.04956 AU
min. Earth dist.	7638 May 11 08:39	24°M36'39	4.37733 AU	max. Lartii dist.	7644 May 01 17:39	15° 8	0.04730 AC
opposition	7638 May 12 00:00	24°M31'35	1°11'32		, UTT IVIAY U1 1/.39	15 0	
direct	7638 Jul 12 02:20	19°M30'07	1 11 32	conjunction	7644 May 02 02:38	15° 8 05'21	0.046,00
direct				v	•	15° 8 05'20	
. ,	7638 Oct 11 14:33	0°⊀ ⁷		minimum elong	7644 May 02 02:37	_	0°46'05
evening set	7638 Nov 15 02:52	7° ∡ 706'54		morning rise	7644 May 15 00:37	18° 8 09'46	
	#/20.31 20 00 20	00 35045	00.50140		7644 Jul 08 01:52	0°II	
conjunction	7638 Nov 28 09:39	9° × 758'47	0°50'49	retrograde	7644 Sep 21 17:47	8° Ⅱ 04'17	
minimum elong	7638 Nov 28 09:39	9° ∡ 58'47	0°50'56	opposition	7644 Nov 20 18:09	3° Ⅱ 07'12	
max. Earth dist.	7638 Nov 28 18:02	10°×703'18	6.43384 AU	min. Earth dist.	7644 Nov 21 04:29		3.98408 AU
morning rise	7638 Dec 11 14:34	12° ∡ 49'35			7644 Dec 16 10:23	30° ₹ 8	
retrograde	7639 Apr 11 16:23	29° ∡ 741′45		direct	7645 Jan 18 20:22	28° 8 12'20	
opposition	7639 Jun 11 08:23	24° ∡ ⁴45′23	1°10'59		7645 Feb 21 00:11	$\Pi^{\circ 0}$	
min. Earth dist.	7639 Jun 11 12:02	24° ∡ ⁴44'12	4.47238 AU	evening set	7645 May 25 02:13	17° Ⅱ 59'20	
direct	7639 Aug 12 11:26	19° ∡ ′43′29					
	7639 Nov 11 21:31	0°ರ		conjunction	7645 Jun 07 05:07	21° Ⅱ 10'44	-0°49'03
evening set	7639 Dec 16 04:41	6° る 59'40		minimum elong	7645 Jun 07 05:08	21° Ⅱ 10'45	0°49'11
max. Earth dist.	7639 Dec 28 10:55	9° ට 36'57	6.49063 AU	max. Earth dist.	7645 Jun 07 06:32	21° Ⅱ 11'36	5.93826 AU
				morning rise	7645 Jun 20 10:27	24° Ⅱ 23'34	
conjunction	7639 Dec 29 06:11	9° ප 47'17	0°43'51		7645 Jul 14 03:06	0ංම	

. 1	7645.0 + 20 10 41	1.50500103			7651 4 15 20 05	20756120	
retrograde	7645 Oct 30 10:41	15°508'03		retrograde	7651 Apr 15 20:05	3°₹56'38	
min. Earth dist.	7645 Dec 28 10:59	10° © 12'13	3.91704 AU		7651 Jun 07 19:46	30°₽ ∡ 7	
opposition	7645 Dec 29 01:06	10° © 07'29	-1°04'56	opposition	7651 Jun 15 12:08	29° ∡ 00'43	1°09'18
direct	7646 Feb 25 04:00	5° © 13'09		min. Earth dist.	7651 Jun 15 18:28	28° ≯ ′58'40	4.47690 AU
evening set	7646 Jul 01 16:17	25° © 15'09		direct	7651 Aug 16 17:58	23° ∡ ′58′51	
					7651 Oct 23 04:02	0°₹	
conjunction	7646 Jul 15 02:54	28° © 30'59	-0°32'38	evening set	7651 Dec 20 10:28	11° る 14'28	
minimum elong	7646 Jul 15 02:56	28° © 31'00	0°32'44	max. Earth dist.	7652 Jan 01 11:49	13° る 49'16	6.49048 AU
max. Earth dist.	7646 Jul 16 16:47	28° © 54'01	5.92230 AU				
	7646 Jul 21 05:21	$0^{\circ}\Omega$		conjunction	7652 Jan 02 11:14	14° る 01'50	0°41'50
morning rise	7646 Jul 28 15:59	1° Ω 48'07		minimum elong	7652 Jan 02 11:15	14° る 01'51	0°41'56
morning rise	7646 Sep 26 15:16	15° Ω		morning rise	7652 Jan 15 09:46	14°る48'06	0 41 50
ratra ara da	•	22°Ω30'22		morning risc		0°≈	
retrograde	7646 Dec 07 14:18		2.05.401 4.77		7652 Mar 27 05:32		
min. Earth dist.	7647 Feb 03 16:12		3.95481 AU	retrograde	7652 May 14 15:28	3° ≈ 24'38	
opposition	7647 Feb 05 00:14	17° Ω 26′50	-0°27'59		7652 Jul 02 19:01	30°Ŗਰ	
	7647 Feb 23 21:37	15°R Ω		opposition	7652 Jul 14 13:29	28° る 31'04	0°48'07
direct	7647 Apr 03 22:57	12° Ω 31'04		min. Earth dist.	7652 Jul 15 13:21	28° る 23'25	4.48375 AU
	7647 May 12 19:58	15° Ω		direct	7652 Sep 15 06:33	23° る 29'28	
	7647 Jul 30 03:47	0° m			7652 Nov 24 16:54	0° ≈	
evening set	7647 Aug 08 14:51	2° m 13'09		evening set	7653 Jan 18 17:01	10° ≈ 47'29	
				max. Earth dist.	7653 Jan 29 18:23	13° ≈ 11'00	6.45551 AU
conjunction	7647 Aug 22 06:27	5° m 27'11	-0°03'21				
minimum elong	7647 Aug 22 06:26	5° mp 27'11		conjunction	7653 Jan 31 13:47	13° ≈ 34'34	0°22'06
behind sun begin	7647 Aug 21 22:06	5° Mp 22'16	0 03 24	minimum elong	7653 Jan 31 13:47	13°≈34'34	0°22'11
_	•	-		minimum elong			0 22 11
behind sun end	7647 Aug 22 14:46	5° My 32'06			7653 Feb 07 03:05	15° ≈	
max. Earth dist.	7647 Aug 24 15:51	6° Mp 01'13	6.00928 AU	morning rise	7653 Feb 13 08:17	16° ≈ 20'45	
morning rise	7647 Sep 04 23:56	8° Mp 41'53			7653 Apr 28 05:55	0° ∀	
asc. node	7647 Oct 03 10:03	15° Mp 10'49		retrograde	7653 Jun 14 09:33	3° ¥ 15′00	
retrograde	7648 Jan 12 11:17	28°M 31'33			7653 Aug 01 09:27	30° R ≈	
min. Earth dist.	7648 Mar 10 11:54	23° Mp 40'07	4.08071 AU	opposition	7653 Aug 14 09:38	28° ≈ 22'27	0°14'02
opposition	7648 Mar 12 01:56	23°M 27'11	0°18'22	min. Earth dist.	7653 Aug 15 21:24	28° ≈ 11'02	4.40899 AU
direct	7648 May 09 17:20	18° m 28'54		direct	7653 Oct 15 22:25	23° ≈ 21'49	
	7648 Aug 10 09:03	0० ⊽			7653 Dec 25 08:46	0° ₩	
evening set	7648 Sep 13 08:33	7° £ 27'34		desc. node	7654 Jan 02 18:52	1° ¥ 29'08	
	,	,		evening set	7654 Feb 18 07:04	11°) (03'10	
conjunction	7648 Sep 27 00:15	10° £ 34'34	0°26'11	max. Earth dist.	7654 Feb 28 18:51	13° ¥ 23'03	6.34576 AU
minimum elong	7648 Sep 27 00:14	10° ⊆ 34'34	0°26'13	max. Earth dist.	7054100 20 10.51	13 7(23 03	0.54570710
•	•				7654 34 02 01 20	1201/52126	0004100
max. Earth dist.	7648 Sep 29 06:16	11° Ω 05'27	6.16191 AU	conjunction	7654 Mar 03 01:20	13°¥53′26	
morning rise	7648 Oct 10 16:16	13° £ 41'23		minimum elong	7654 Mar 03 01:19	13°) ₹53'25	0°04'07
	7649 Jan 06 08:54	0°M		behind sun begin	7654 Mar 02 17:27	13°) 49′04	
retrograde	7649 Feb 13 19:17	2°M17'38		behind sun end	7654 Mar 03 09:10	13° ¥ 57'47	
	7649 Mar 24 00:08	30° ₹ Ω		morning rise	7654 Mar 15 18:25	16° ¥ 43′20	
min. Earth dist.	7649 Apr 13 11:41	27° ≏ 24'49	4.24422 AU		7654 May 22 21:08	0 ° $\mathbf{\Upsilon}$	
opposition	7649 Apr 14 16:46	27° £ 15′03	0°55'10	retrograde	7654 Jul 17 03:20	4° Ƴ 24'27	
direct	7649 Jun 13 15:12	22° £ 14'39			7654 Sep 12 05:16	30° Ŗ ₩	
	7649 Aug 27 23:21	0°M		opposition	7654 Sep 15 22:31	29° ∺ 31′26	-0°25'45
evening set	7649 Oct 17 23:41	10°M25'45		min. Earth dist.	7654 Sep 17 13:23	29° 升 18'58	4.27029 AU
C				direct	7654 Nov 16 16:00	24°) 32′24	
conjunction	7649 Oct 31 11:26	13° M 24'07	0°45'31		7655 Jan 17 16:45	0°Υ	
minimum elong	7649 Oct 31 11:25	13°M24'06	0°45'35	evening set	7655 Mar 22 03:26	12° Υ ′54'49	
max. Earth dist.	7649 Nov 01 21:35	13°M42'57	6.32275 AU	max. Earth dist.	7655 Apr 01 20:40	15°Υ22'56	6.18855 AU
max. Earm uist.			0.32273 AU	max. Earth dist.	7033 Apr 01 20.40	13 1 22 30	0.16633 AU
	7649 Nov 07 17:18	15°M			7655 4 02 21 51	1.500051101	0020100
morning rise	7649 Nov 13 21:59	16°M21'38		conjunction	7655 Apr 03 21:51	15° Y 51′21	
	7650 Jan 24 15:38	0° ∡ ¹		minimum elong	7655 Apr 03 21:50	15° Y 51'20	0°30'12
retrograde	7650 Mar 16 20:57	3° ≯ 52'35		morning rise	7655 Apr 16 16:02	18° Ƴ 48'07	
	7650 May 07 17:18	30°RM			7655 Jun 08 07:50	0 \circ 8	
opposition	7650 May 16 05:15	28°M53'18	1°12'36	retrograde	7655 Aug 21 08:29	7° 8 38'30	
min. Earth dist.	7650 May 15 15:28	28°M57'51	4.38990 AU	opposition	7655 Oct 20 19:11	2° 8 43'48	-1°00'18
direct	7650 Jul 16 09:52	23°M51'46		min. Earth dist.	7655 Oct 21 23:38	2° 8 34'33	4.10563 AU
	7650 Sep 21 19:59	0°⊀			7655 Nov 12 01:46	30° ŖƳ	
evening set	7650 Nov 19 11:40	11° ∡ ¹26′01		direct	7655 Dec 20 03:39	27° Y ′47′05	
Ç					7656 Jan 26 19:03	0°8	
conjunction	7650 Dec 02 17:45	14° √ 17'17	0°50'35		7656 Apr 15 15:16	15° 8	
minimum elong	7650 Dec 02 17:46	14° 🗷 17'17	0°50'42	evening set	7656 Apr 24 00:37	16° 8 58'38	
max. Earth dist.	7650 Dec 02 17:40 7650 Dec 02 22:49	14 × 1717 14° × 20'01	6.44260 AU	oroning set	,000 11p1 27 00.57	10 0000	
			0.77200 AU	agniumation	7656 May 06 22:02	200 20211 7	0047121
morning rise	7650 Dec 15 21:48	17° ₹ 07'26		conjunction	7656 May 06 22:03	20° 8 03'15	
	7651 Feb 22 16:42	0°₹		minimum elong	7656 May 06 22:02	20° 8 03'15	0 4/30

max. Earth dist.	7656 May 05 17:57	100×16'27	6.03061 AU		7662 Jan 02 01:20	0° ∡ 7	
morning rise	7656 May 19 20:54	23° 8 08'53	0.03001 AU	retrograde	7662 Mar 21 02:56	8° ∡ 15'22	
morning rise	7656 Jun 18 13:39	0°II		opposition	7662 May 20 11:45	3° ₹ 16'33	1°13'19
ratragrada	7656 Sep 26 23:55	13° Ⅱ 12'20		min. Earth dist.	7662 May 20 01:05	3°×10'33	4.40877 AU
retrograde	7656 Nov 25 22:52	8° Ⅱ 14'45	1015121	min. Earm dist.	7662 Jun 16 18:50	30°RM	4.406// AU
opposition				1: 4		-	
min. Earth dist.	7656 Nov 26 06:23	8° I I12'16	3.96909 AU	direct	7662 Jul 20 21:26	28°M14'55	
direct	7657 Jan 23 22:04	3° Ⅱ 20'00			7662 Aug 24 09:03	0° ⊀ ⁷	
evening set	7657 May 30 04:02	23° Ⅱ 11'10		evening set	7662 Nov 23 20:10	15° ∡ ⁴44'18	
conjunction	7657 Jun 12 08:08	26° Ⅲ 23'33	-0°47'53	conjunction	7662 Dec 07 01:29	18° ∡ ³34'41	0°50'09
minimum elong	7657 Jun 12 08:09	26° I I23'33		minimum elong	7662 Dec 07 01:30	18° √ 34'41	0°50'15
max. Earth dist.	7657 Jun 12 15:33	26° I I28'04	5.92887 AU	max. Earth dist.	7662 Dec 07 03:21	18° √ 35'41	6.45741 AU
morning rise	7657 Jun 25 14:28	29° I 37'19	3.92007 110	morning rise	7662 Dec 20 04:38	21°×723'55	0.13711710
morning rise	7657 Jun 27 03:58	0°9		morning rise	7663 Jan 31 21:58	0°る	
retrograde	7657 Nov 04 19:26	20°925'17		retrograde	7663 Apr 19 21:05	8° る 08'24	
opposition	7658 Jan 03 07:39	15°924'16	-1°01'07	opposition	7663 Jun 19 15:14	3°る12'49	1°07'19
min. Earth dist.	7658 Jan 02 15:07		3.91451 AU	min. Earth dist.	7663 Jun 19 23:16	3°る1249	4.48681 AU
direct	7658 Mar 02 08:28	10° © 29'51	3.91431 AU	mm. Earth dist.	7663 Jul 16 17:11	30°R. ∕ 7	4.46061 AU
direct	7658 Jul 04 17:29	10 3 2931		direct		28° √ 10'57	
		0° Ω 31'47		direct	7663 Aug 20 22:51	28° x ·1037	
evening set	7658 Jul 06 22:13	0 863147		avanina aat	7663 Sep 25 13:29	0 る 15° る 24'14	
conjunction	7658 Jul 20 09:40	3° Ω 47'50	0°20'02	evening set	7663 Dec 24 14:14	13 024 14	
minimum elong	7658 Jul 20 09:41	3° Ω 47'51		conjunction	7664 Jan 06 14:19	18° る 11'10	0°39'41
max. Earth dist.	7658 Jul 22 02:10	4°Ω12'25	5.92670 AU		7664 Jan 06 14:19	18° ろ 11'10	0°39'48
		$7^{\circ}\Omega_{05'12}$	3.92070 AU	minimum elong		18 31110 17° る 57'11	6.49475 AU
morning rise	7658 Aug 02 23:51			max. Earth dist.	7664 Jan 05 12:16	17 3 3711 20° る 57'00	0.49473 AU
	7658 Sep 06 03:20	15° Ω		morning rise	7664 Jan 19 12:02	20° ⊘ 3700	
retrograde	7658 Dec 12 16:13	27° Ω 43'29	2.06572 ATT	. 1	7664 Mar 04 20:33		
min. Earth dist.	7659 Feb 08 16:35	22° Ω 51'25		retrograde	7664 May 18 17:39	7°≈32'52	0044105
opposition	7659 Feb 10 03:06	22° Ω 39'41	-0°21′36	opposition	7664 Jul 18 16:25	2°≈39'34	0°44'05
direct	7659 Apr 09 02:04	17° Ω 43'35		min. Earth dist.	7664 Jul 19 18:49	2°≈31'07	4.48195 AU
	7659 Jul 12 11:32	0° Mp			7664 Aug 09 14:59	30°Rる	
evening set	7659 Aug 13 19:27	7° m/21'32		direct	7664 Sep 19 10:37	27° る 38'03	
asc. node	7659 Aug 13 06:11	7° m 13'45			7664 Oct 30 07:09	0° ≈	
	7.50	100 - 2450	0001100	evening set	7665 Jan 22 19:21	14°≈56'54	
conjunction	7659 Aug 27 11:27	10° m 34'58	0°01'09		7665 Jan 23 01:07	15° ≈	
minimum elong	7659 Aug 27 11:26	10° m 34'57	0°01'06	max. Earth dist.	7665 Feb 02 16:03	17° ≈ 18'14	6.44753 AU
behind sun begin	7659 Aug 27 03:03	10° Mp 30'01					
behind sun end	7659 Aug 27 19:50	10° m 39'53		conjunction	7665 Feb 04 15:30	17° ≈ 44'03	0°18'49
max. Earth dist.	7659 Aug 29 21:35	11° M)09'18	6.02571 AU	minimum elong	7665 Feb 04 15:31	17° ≈ 44'04	0°18'53
morning rise	7659 Sep 10 05:03	13° m) 48'55		morning rise	7665 Feb 17 09:48	20° ≈ 30'27	
	7659 Nov 30 15:56	0∘ ⊽			7665 Apr 05 10:01	0° ∀	
retrograde	7660 Jan 17 07:32	3° ≏ 29'46		retrograde	7665 Jun 18 16:37	7° ∺ 28'38	
	7660 Mar 05 02:48	30°R, Mp		opposition	7665 Aug 18 15:58	2° ∺ 36′04	0°08'48
min. Earth dist.	7660 Mar 15 09:00	28° Mp 38'02	4.10079 AU	min. Earth dist.	7665 Aug 20 05:28	2°) 24′05	4.39504 AU
opposition	7660 Mar 16 21:56	28° m 25'30	0°24'25		7665 Sep 09 02:41	30°R≈	
direct	7660 May 14 17:59	23° Mp 26'54		direct	7665 Oct 20 03:10	27° ≈ 35'31	
	7660 Jul 20 19:00	0∘ ಹ		desc. node	7665 Nov 14 14:40	28° ≈ 33'24	
evening set	7660 Sep 18 07:40	12° ≏ 19'17			7665 Nov 29 22:50	0° ∀	
	-			evening set	7666 Feb 22 11:20	15° ∺ 21′08	
conjunction	7660 Oct 01 23:07	15° ≙ 25'11	0°29'39	max. Earth dist.	7666 Mar 04 23:02	17°) 41′32	6.32675 AU
minimum elong	7660 Oct 01 23:06	15° ≙ 25'10	0°29'41			4.0.3.5	
max. Earth dist.	7660 Oct 04 04:59	15° ≏ 55'48	6.18415 AU	conjunction	7666 Mar 07 05:38	18° ¥ 12'07	
morning rise	7660 Oct 15 14:30	18° ≏ 30'44		minimum elong	7666 Mar 07 05:37	18°) 12′06	0°07'47
	7660 Dec 10 04:51	0°M₊		behind sun begin	7666 Mar 06 22:25	18° ∺ 08'05	
retrograde	7661 Feb 18 05:15	6°M57′02		behind sun end	7666 Mar 07 12:48	18° ∺ 16′07	
min. Earth dist.	7661 Apr 18 00:23	2°M04'26	4.26690 AU	morning rise	7666 Mar 19 22:34	21°) 02'44	
opposition	7661 Apr 19 04:58	1°M54'52	0°58'52		7666 May 01 11:13	0° Υ	
	7661 May 03 21:54	30° ₹		retrograde	7666 Jul 21 17:00	8° Y 52'19	
direct	7661 Jun 18 06:42	26° ≏ 54'17		opposition	7666 Sep 20 11:31	3° Y 59′10	
	7661 Aug 02 22:41	0°M₊		min. Earth dist.	7666 Sep 22 02:04	3° Y 46'48	4.24726 AU
evening set	7661 Oct 22 15:28	14°M59'07			7666 Oct 26 14:17	30° ₹ ₩	
	7661 Oct 22 17:06	15°M		direct	7666 Nov 21 00:17	29° ∺ 00′26	
					7666 Dec 16 10:01	0 ° Υ	
conjunction	7661 Nov 05 02:20	17°M56'15	0°47'06	evening set	7667 Mar 26 13:54	17° Y ′30'03	
minimum elong	7661 Nov 05 02:19	17°M56'14		max. Earth dist.	7667 Apr 06 07:41	19° Ƴ 59'21	6.16322 AU
max. Earth dist.	7661 Nov 06 08:22	18°ML12'45	6.34428 AU				
morning rise	7661 Nov 18 12:02	20°M52'31		conjunction	7667 Apr 08 08:26	20° Y 27'42	-0°33'12

minimum elong	7667 Apr 08 08:24	20° Ƴ 27'41	0°33'15		7672 Nov 20 02:54	0°M	
morning rise	7667 Apr 21 03:11	23° Y 25'45	0 33 13	retrograde	7673 Feb 22 16:39	11°M38'41	
morning rise	7667 May 20 10:11	0° 8		opposition	7673 Apr 23 17:55	6°M36'48	1°02'10
retrograde	7667 Aug 26 08:48	12° 8 27'49		min. Earth dist.	7673 Apr 22 15:57	6°M45'29	4.29119 AU
opposition	7667 Oct 25 17:05	7° 8 32'47	-1°03'49	direct	7673 Jun 23 01:10	1°ML35'57	1.27117110
min. Earth dist.	7667 Oct 26 19:58	7° 8 24'01			7673 Oct 05 21:20	15°M	
direct	7667 Dec 24 20:50	2° 8 36'21	07900110	evening set	7673 Oct 27 07:08	19°M33'58	
	7668 Mar 29 17:27	15° 8		evening sec	7075 000 27 07.00	19 110,000	
evening set	7668 Apr 28 19:47	21° 8 56'15		conjunction	7673 Nov 09 17:21	22°M29'54	0°48'23
	,			minimum elong	7673 Nov 09 17:20	22°M29'54	0°48'30
conjunction	7668 May 11 18:12	25° 8 02'21	-0°48'42	max. Earth dist.	7673 Nov 10 21:02	22°M45'03	6.36591 AU
minimum elong	7668 May 11 18:11	25° 8 02'21	0°48'48	morning rise	7673 Nov 23 01:55	25°M24'52	0.000
max. Earth dist.	7668 May 10 18:41	24° 8 48'13	6.00690 AU		7673 Dec 14 16:02	0° %	
morning rise	7668 May 24 17:55	28° 8 09'29		retrograde	7674 Mar 25 07:05	12° ₹ 39'54	
morning not	7668 Jun 01 11:53	0°II		opposition	7674 May 24 18:36	7° √ 41'32	1°13'37
retrograde	7668 Oct 02 09:11	18° Ⅱ 23'48		min. Earth dist.	7674 May 24 09:42	7° × ⁷ 44'27	4.42626 AU
opposition	7668 Dec 01 04:45	13° Ⅱ 25'52	-1°15'24	direct	7674 Jul 25 07:32	2° ₹ 39'50	
min. Earth dist.	7668 Dec 01 09:23	13° Ⅱ 24'20	3.95006 AU	evening set	7674 Nov 28 05:23	20° х 04'57	
direct	7669 Jan 28 23:03	8° I [31'20	3.93000110	evening set	70711107 20 03.23	20 7 0.37	
evening set	7669 Jun 04 08:10	28° II 28'29		conjunction	7674 Dec 11 09:45	22° х 54'30	0°49'24
evening sec	7669 Jun 10 14:25	0 ೨ ೨		minimum elong	7674 Dec 11 09:46	22° х 54'30	0°49'31
	7009 0411 10 11.20	0 0		max. Earth dist.	7674 Dec 11 06:22	22° × 52'41	6.46947 AU
conjunction	7669 Jun 17 13:17	1°541'59	-0°46'19	morning rise	7674 Dec 24 12:06	25° × 42'57	0.10917110
minimum elong	7669 Jun 17 13:18	1°942'00	0°46'26	morning rise	7675 Jan 13 23:55	0°る	
max. Earth dist.	7669 Jun 18 00:35	1°948'54	5.91635 AU	retrograde	7675 Apr 24 01:30	12° る 23'48	
morning rise	7669 Jun 30 21:05	4°957'00	0.91000110	opposition	7675 Jun 23 19:45	7° る 28'36	1°04'56
retrograde	7669 Nov 10 04:32	25°549'36		min. Earth dist.	7675 Jun 24 07:36	7° る 24'47	4.49280 AU
opposition	7670 Jan 08 16:37	20°548'04	-0°56'46	direct	7675 Aug 25 07:00	2° る 26'42	,200110
min. Earth dist.	7670 Jan 07 19:45	20°955'07		evening set	7675 Dec 28 19:42	19° る 38'58	
direct	7670 Mar 07 14:10	15°953'33	01, 101, 110	0.0000	,,,,,		
	7670 Jun 17 02:46	0° Ω		conjunction	7676 Jan 10 19:11	22° る 25'40	0°37'15
evening set	7670 Jul 12 07:00	5° Ω 56'02		minimum elong	7676 Jan 10 19:13	22° る 25'41	0°37'22
evening sec	7070041 12 07.00	000002		max. Earth dist.	7676 Jan 09 13:04	22° る 09'30	6.49415 AU
conjunction	7670 Jul 25 19:30	9° Ω 12'22	-0°25'11	morning rise	7676 Jan 23 16:20	25° る 11'19	0.19110110
minimum elong	7670 Jul 25 19:31	9°Ω12'23	0°25'16	morning rise	7676 Feb 15 18:31	0°≈	
max. Earth dist.	7670 Jul 27 16:48	9° Ω 39'49	5.93101 AU	retrograde	7676 May 22 22:38	11° ≈ 48'11	
morning rise	7670 Aug 08 10:29	12° Ω 29'52	0.90101110	opposition	7676 Jul 22 22:16	6°≈55'00	0°39'41
morning not	7670 Aug 18 22:34	15° Ω		min. Earth dist.	7676 Jul 24 02:21	6°≈46'01	4.47492 AU
	7670 Nov 03 17:08	0° m)		direct	7676 Sep 23 15:37	1°≈53'32	1.17 192 110
retrograde	7670 Dec 17 22:19	3° Mp 03'53		uncor	7677 Jan 06 23:40	15° ≈	
renegrade	7671 Jan 31 05:11	30°R Ω		evening set	7677 Jan 27 00:42	19° ≈ 14'46	
min. Earth dist.	7671 Feb 13 20:56		3.97794 AU	max. Earth dist.	7677 Feb 06 20:14	21°≈35'52	6.43452 AU
opposition	7671 Feb 15 08:28	27° Ω 59'46		max. Earth dist.	7077100 00 20.11	21 70 33 32	0.13132710
direct	7671 Apr 14 10:10	23° Ω 03'19	0 1.00	conjunction	7677 Feb 08 20:33	22° ≈ 02'16	0°15'17
	7671 Jun 21 09:51	0° m)		minimum elong	7677 Feb 08 20:34	22°≈02'16	0°15'21
asc. node	7671 Jun 22 06:00	0°M)09'12		behind sun begin	7677 Feb 08 18:03	22°≈00'54	0 10 21
evening set	7671 Aug 19 02:37	12° m/36'20		behind sun end	7677 Feb 08 23:05	22°≈03'38	
evening sec	7071 Hug 19 02.37	12 11,3020		morning rise	7677 Feb 21 14:24	24°≈49'01	
conjunction	7671 Sep 01 18:55	15° m 48'59	0°05'37		7677 Mar 18 01:49	0°) €	
minimum elong	7671 Sep 01 18:55	15° m) 48'59	0°05'34	retrograde	7677 Jun 23 03:53	11°) 52'46	
behind sun begin	7671 Sep 01 10:53	15° Mp 44'17	0 03 34	opposition	7677 Aug 23 02:46	7° \ 00'13	0°03'15
behind sun end	7671 Sep 02 02:58	15° m 53'42		min. Earth dist.	7677 Aug 24 17:39	6°) (47'48	4.37672 AU
max. Earth dist.	7671 Sep 02 02:30	16° Mp 24'46	6.04449 AU	desc. node	7677 Sep 24 09:47	3°) €20'24	1.57072110
morning rise	7671 Sep 15 12:30	19° Mp 02'01	0.01119710	direct	7677 Oct 24 12:02	1° ¥ 59'52	
morning rise	7671 Nov 05 03:06	0° <u>م</u>		evening set	7678 Feb 26 20:35	19° X 51'01	
retrograde	7672 Jan 22 03:16	8° ≏ 32'37		max. Earth dist.	7678 Mar 09 06:20	22° H 11'06	6.30436 AU
min. Earth dist.	7672 Mar 20 05:30	3° £ 41'09	4.12385 AU	man Darur Gige.	707011141 05 00.20	22 /(1100	0.50 150 110
opposition	7672 Mar 21 19:03	3° ₽ 28'25	0°30'20	conjunction	7678 Mar 11 14:37	22°)(42'47	-0°11'38
эррозион	7672 Apr 19 08:26	30°R Mp	3 30 20	minimum elong	7678 Mar 11 14:36	22°) (42'47	0°11'36
direct	7672 May 19 17:57	28° Mp 29'28		behind sun begin	7678 Mar 11 08:52	22° H 39'34	0 11 50
ancei	7672 Jun 19 10:48	0° ت		behind sun end	7678 Mar 11 08:32	22° H 46'00	
evening set	7672 Sep 23 07:58	0 == 17° £ 14'24		morning rise	7678 Mar 24 07:48	25° H 34'22	
evening set	1012 Dep 23 01.38	1/ ==1424		morning 1150	7678 Apr 13 10:50	23 π3422 0°γ	
conjunction	7672 Oct 06 22:46	20° £ 18'56	0°32'56	retrograde	7678 Jul 26 13:07	13° Υ 33'34	
minimum elong	7672 Oct 06 22:45	20° £ 18'55	0°32'58	opposition	7678 Sep 25 06:09	8° Υ 40'11	-0°36'20
max. Earth dist.	7672 Oct 06 22.43	20° £ 47'30	6.20907 AU	min. Earth dist.	=	8° Υ 28'01	4.22221 AU
max. Earth dist.	7672 Oct 09 01:18 7672 Oct 20 13:35	20° 22 4/30 23° 2 23'04	0.2090 / AU	direct	7678 Sep 26 19:56 7678 Nov 25 14:44	3° Υ 41'41	+.4441 AU
morning rise	1012 001 20 13.33	23 == 23 04		direct	1010 INUV 23 14.44	J [4141	

evening set	7679 Mar 31 05:54	22° Ƴ 19′02		evening set	7684 Sep 28 04:26	21° ≙ 59'47	
max. Earth dist.	7679 Apr 11 03:30	24° Y 51′21	6.13772 AU				
		••		conjunction	7684 Oct 11 18:50	25° Ω 02'58	
conjunction	7679 Apr 13 00:58	25° Y 17'56		minimum elong	7684 Oct 11 18:49	25° ≏ 02'57	0°35'55
minimum elong	7679 Apr 13 00:56	25° Y 17'55	0°36'14	max. Earth dist.	7684 Oct 13 19:42	25° Ω 30'26	6.23523 AU
morning rise	7679 Apr 25 20:06	28° Y 17'17		morning rise	7684 Oct 25 08:41	28° Ω 05'36	
	7679 May 03 05:43	0° S			7684 Nov 02 23:32	0°M₊	
	7679 Jul 22 00:51	15° 8			7685 Jan 30 16:52	15° ™	
retrograde	7679 Aug 31 14:41	17° 8 30'51		retrograde	7685 Feb 27 00:16	16°M10′43	
	7679 Oct 11 13:00	15° ₹ 8			7685 Mar 26 02:54	15°RM	
opposition	7679 Oct 30 20:51	12° 8 35'32		min. Earth dist.	7685 Apr 27 03:16	11° M 17'22	4.31498 AU
min. Earth dist.	7679 Oct 31 21:29	12° 8 27'30	4.05622 AU	opposition	7685 Apr 28 03:14	11°M09'23	1°04'58
direct	7679 Dec 29 19:29	7° 8 39'30		direct	7685 Jun 27 14:50	6°M08'25	
	7680 Mar 09 15:25	15° 8			7685 Sep 17 19:22	15°M	
evening set	7680 May 03 20:28	27° 8 06'40		evening set	7685 Oct 31 19:38	24°M00'19	
	7680 May 15 20:21	$\Pi^{\circ}0$					
				conjunction	7685 Nov 14 04:52	26°M55'06	0°49'22
conjunction	7680 May 16 19:34	0° Ⅱ 14'01	-0°49'33	minimum elong	7685 Nov 14 04:52	26°M55′06	0°49'27
minimum elong	7680 May 16 19:34	0° Ⅱ 14′00	0°49'40	max. Earth dist.	7685 Nov 15 02:32	27° ™ 06'55	6.38544 AU
max. Earth dist.	7680 May 15 23:27	0° Ⅱ 01'52	5.98741 AU	morning rise	7685 Nov 27 12:43	29° ™ 48'57	
morning rise	7680 May 29 20:29	3° Ⅱ 22'33			7685 Nov 28 09:10	0° ∡ ¹	
retrograde	7680 Oct 07 20:05	23° Ⅱ 45'43		retrograde	7686 Mar 29 10:49	16° ₰ 57'24	
opposition	7680 Dec 06 14:55	18° Ⅱ 47'17	-1°14'37	opposition	7686 May 28 22:57	11° ∡ ¹59'32	1°13'31
min. Earth dist.	7680 Dec 06 14:51	18° Ⅱ 47'19	3.93714 AU	min. Earth dist.	7686 May 28 17:53	12° ∡ ¹01'12	4.44042 AU
direct	7681 Feb 03 04:43	13° Ⅱ 52'55		direct	7686 Jul 29 16:17	6° ∡ 757'45	
	7681 May 24 10:44	0°ම		evening set	7686 Dec 02 11:53	24° √ 19'56	
evening set	7681 Jun 09 15:53	3°953'24					
				conjunction	7686 Dec 15 15:43	27° х 08′58	0°48'26
conjunction	7681 Jun 22 22:13	7° 5 07'42	-0°44'20	minimum elong	7686 Dec 15 15:43	27° ∡ ¹08'58	0°48'33
minimum elong	7681 Jun 22 22:14	7° 5 07'43	0°44'27	max. Earth dist.	7686 Dec 15 09:01	27° ∡ ¹05′22	6.47729 AU
max. Earth dist.	7681 Jun 23 16:23	7° 5 018'49	5.91163 AU	morning rise	7686 Dec 28 17:09	29° ∡ 56'49	
morning rise	7681 Jul 06 07:03	10° © 23'26			7686 Dec 28 23:07	0°ප	
	7681 Oct 18 13:21	$0^{\circ}\Omega$		retrograde	7687 Apr 28 02:48	16° る 35'44	
retrograde	7681 Nov 15 15:55	1° Ω 16′50		opposition	7687 Jun 27 22:55	11° る 40'55	1°02'18
•	7681 Dec 13 15:13	30° ℝ ∽		min. Earth dist.	7687 Jun 28 12:41	11° る 36'29	4.49405 AU
min. Earth dist.	7682 Jan 13 03:35	26°522'41	3.91435 AU	direct	7687 Aug 29 10:38	6° ප 39'06	
opposition	7682 Jan 14 02:48	26°914'50	-0°51'51	evening set	7688 Jan 02 00:08	23° る 51'57	
direct	7682 Mar 13 00:37	21°520′10					
	7682 May 28 06:30	$0^{\circ}\Omega$		conjunction	7688 Jan 14 22:59	26° る 38'38	0°34'42
evening set	7682 Jul 17 16:30	11° Ω 19'50		minimum elong	7688 Jan 14 23:00	26° る 38'38	0°34'47
C				max. Earth dist.	7688 Jan 13 13:14	26° る 20'29	6.48875 AU
conjunction	7682 Jul 31 05:49	14° Ω 35'56	-0°21'07	morning rise	7688 Jan 27 19:38	29° る 24'18	
minimum elong	7682 Jul 31 05:50	14° Ω 35'56		Ü	7688 Jan 30 14:35	0° ≈	
Č	7682 Aug 01 21:43	15° Ω			7688 Apr 30 18:30	15° ≈	
max. Earth dist.	7682 Aug 02 07:49	15° Ω 06'06	5.94362 AU	retrograde	7688 May 27 05:39	16° ≈ 03'53	
morning rise	7682 Aug 13 21:28	17° Ω 53'06		C	7688 Jun 22 15:01	15°R≈	
S	7682 Oct 07 17:06	0° mp		opposition	7688 Jul 27 04:18	11° ≈ 10'57	0°35'08
retrograde	7682 Dec 23 01:13	8° m)19'11		min. Earth dist.	7688 Jul 28 11:19	11° ≈ 01'02	4.46325 AU
min. Earth dist.	7683 Feb 18 22:23	3°m/27'39	3.99749 AU	direct	7688 Sep 27 22:22	6°≈09'37	
opposition	7683 Feb 20 11:52	3° m) 14'55			7688 Dec 20 07:30	15° ≈	
11	7683 Mar 18 16:09	30° ₽ Ω		evening set	7689 Jan 31 06:35	23° ≈ 34'46	
direct	7683 Apr 19 15:02	28° Ω 18'08		max. Earth dist.	7689 Feb 10 22:50	25° ≈ 54'42	6.41740 AU
asc. node	7683 May 02 02:05	28° Ω 34'00					
	7683 May 21 16:56	0° m/p		conjunction	7689 Feb 13 02:07	26° ≈ 22'48	0°11'42
evening set	7683 Aug 24 07:28	17° mp 43'54		minimum elong	7689 Feb 13 02:07	26° ≈ 22'48	0°11'46
8				behind sun begin	7689 Feb 12 20:29	26° ≈ 19'44	
conjunction	7683 Sep 06 23:38	20° m 55'24	0°09'53	behind sun end	7689 Feb 13 07:45	26° ≈ 25'52	
minimum elong	7683 Sep 06 23:38	20° m 55'24	0°09'52	morning rise	7689 Feb 25 19:51	29°≈10'09	
behind sun begin	7683 Sep 06 16:52	20° m/51'28	· ·· · -		7689 Mar 01 15:31	0° ∀	
behind sun end	7683 Sep 07 06:23	20° m 59'20		retrograde	7689 Jun 27 16:33	16° ¥ 20'57	
max. Earth dist.	7683 Sep 07 00:23	20° my 30'11	6.06878 AU	desc. node	7689 Aug 04 14:14	14°) 13'46	
morning rise	7683 Sep 20 17:12	24° Mp 07'13	5.00570710	opposition	7689 Aug 27 14:57	11°) 28'20	-0°02'20
	7683 Oct 16 19:31	0° ت		min. Earth dist.	7689 Aug 29 05:38		4.35528 AU
retrograde	7684 Jan 26 18:55	0 == 13° £ 26'11		direct	7689 Oct 28 20:41	6° ∺ 28'13	T.33320 AU
min. Earth dist.	7684 Mar 25 00:40	8° £ 34'26	4.15018 AU	evening set	7690 Mar 03 07:08	24° H 25'55	
opposition	7684 Mar 26 12:55	8° £ 22'10	0°35'49	max. Earth dist.	7690 Mar 13 19:00		6.28032 AU
direct	7684 May 24 16:40	3° £ 22'52	U 33 47	max. Darui uist.	1070 IVIAI 13 17.00	20 八 4/34	0.20032 AU
direct	700-111ay 27 10.40	5 — 22 32					

conjunction	7690 Mar 16 01:18	27° 升 18'39	-0°15'23	behind sun end	7695 Sep 12 05:46	25° m 57'10	
minimum elong	7690 Mar 16 01:17	27° ∺ 18'39	0°15'24	max. Earth dist.	7695 Sep 14 13:39	26° m 29'38	6.09153 AU
behind sun begin	7690 Mar 15 22:42	27° ∺ 17'11		morning rise	7695 Sep 25 18:54	29°M 05'26	
behind sun end	7690 Mar 16 03:52	27° ∺ 20′06			7695 Sep 29 18:01	0∘ ⊽	
	7690 Mar 27 22:31	0°Υ		retrograde	7696 Jan 31 09:46	18° ≏ 13'40	
morning rise	7690 Mar 28 18:29	0° Υ 11'14		min. Earth dist.	7696 Mar 29 17:34	13° Ω 21'40	4.17376 AU
retrograde	7690 Jul 31 11:38	18° Y 20'40	0044124	opposition	7696 Mar 31 04:18	13° Ω 09'56	0°40'58
opposition	7690 Sep 30 03:04	13° Y 27'07		direct	7696 May 29 12:22	8° Ω 10'22	
min. Earth dist.	7690 Oct 01 15:58	13°Υ15'14	4.19732 AU	evening set	7696 Oct 02 23:15	26° £ 40′29	
direct	7690 Nov 30 07:36	8° Y 29'01 27° Y 13'45			7(0(0) 1 1(12.5)	200 0 42126	0020125
evening set max. Earth dist.	7691 Apr 04 23:48	29° Y $48'11$	6.11408 AU	conjunction	7696 Oct 16 12:56 7696 Oct 16 12:55	29° £ 42'26 29° £ 42'25	0°38'35 0°38'39
max. Earm dist.	7691 Apr 15 23:30 7691 Apr 16 19:37	0° 8	0.11408 AU	minimum elong	7696 Oct 17 20:22	29 == 42 23	0 38 39
	7091 Apr 10 19.37	0.0		max. Earth dist.	7696 Oct 18 09:32	0°M07'22	6.25758 AU
conjunction	7691 Apr 17 19:06	0° 8 13'48	-0°38'57	morning rise	7696 Oct 30 02:12	2°M43'48	0.23736 AU
minimum elong	7691 Apr 17 19:04	0° 8 13'47	0°39'00	morning rise	7696 Dec 30 12:33	15°M	
morning rise	7691 Apr 30 15:00	3° 8 14'27	0 37 00	retrograde	7697 Mar 03 06:57	20°M40'02	
morning 115¢	7691 Jun 24 04:48	15° 8		opposition	7697 May 02 11:45		1°07'23
retrograde	7691 Sep 05 20:36	22° 8 38'40		min. Earth dist.	7697 May 01 14:18	15°M46'15	4.33449 AU
opposition	7691 Nov 05 01:58	17° 8 42'55	-1°09'46		7697 May 07 09:48	15°RM	
min. Earth dist.	7691 Nov 05 22:29	17° 8 36'13	4.03609 AU	direct	7697 Jul 02 03:44	10° ™ 37'57	
	7691 Nov 27 01:48	15° R ്8			7697 Aug 26 14:38	15° ™	
direct	7692 Jan 03 19:26	12° 8 47'09		evening set	7697 Nov 05 07:21	28°M25'05	
	7692 Feb 10 01:14	15° 8			7697 Nov 12 14:39	0°⊀	
	7692 Apr 29 03:13	$\Pi^{\circ}0$					
evening set	7692 May 08 22:05	2° Ⅲ 20′01		conjunction	7697 Nov 18 15:59	1° ∡ 18'59	0°50'04
				minimum elong	7697 Nov 18 15:59	1° ∡ 18'59	0°50'09
conjunction	7692 May 21 22:07	5° Ⅱ 28′26	-0°50'01	max. Earth dist.	7697 Nov 19 10:32	1° х 29′04	6.40078 AU
minimum elong	7692 May 21 22:07	5° Ⅱ 28′26	0°50'07	morning rise	7697 Dec 01 22:47	4° ∤ 11'51	
max. Earth dist.	7692 May 21 08:30	5° Ⅱ 20'11	5.97276 AU	retrograde	7698 Apr 02 14:12	21° ∡ 15′04	
morning rise	7692 Jun 03 23:52	8° Ⅲ 38′03		opposition	7698 Jun 02 03:46	16° ∡ 17'43	1°13'02
retrograde	7692 Oct 13 07:46	29° Ⅱ 07'38		min. Earth dist.	7698 Jun 02 01:09	16° ∡ 18'34	4.45072 AU
opposition	7692 Dec 12 00:32	24° Ⅲ 08'38		direct	7698 Aug 03 00:04	11° ∡ 15'56	
min. Earth dist.	7692 Dec 11 21:43	24° Ⅱ 09'35	3.92961 AU	evening set	7698 Dec 06 19:21	28° ∡ ³36′14	
direct	7693 Feb 08 11:47	19° Ⅱ 14'19			7698 Dec 13 08:13	0° る	
	7693 May 05 22:26	0.20 2123 0.20			7(00 D 10 22 10	1070447	00.4711.1
evening set	7693 Jun 14 22:38	9° © 15'53		conjunction	7698 Dec 19 22:18	1°る24'47	0°47'11 0°47'18
	7602 I 20 05.50	12° © 30'40	0941150	minimum elong max. Earth dist.	7698 Dec 19 22:19 7698 Dec 19 10:11	1°る24'47 1°る18'17	
conjunction	7693 Jun 28 05:59 7693 Jun 28 06:00	12 \$3040 12°\$30'41	0°42'06	morning rise	7699 Jan 01 23:10	1 31817 4° 3 12'14	0.481/9 AU
minimum elong max. Earth dist.			5.91175 AU	•	7099 Jan 01 23.10	4 012 14	
max. Larm dist.	7603 lun 70 05 17			retrograde	7600 May 02 08:00	200天50107	
morning rise	7693 Jul 29 05:17	12°544'55	3.71173 AO	retrograde	7699 May 02 08:00	20°る50'07	0°59'19
morning rise	7693 Jul 11 15:56	15° © 46'53	3.71173 AO	opposition	7699 Jul 02 03:39	15° る 55'40	0°59'19 4 49272 AU
-	7693 Jul 11 15:56 7693 Sep 14 18:50	15°≌46'53 0° Ω	3.51175 AO	opposition min. Earth dist.	7699 Jul 02 03:39 7699 Jul 02 20:49	15°පි55'40 15°පි50'09	0°59'19 4.49272 AU
morning rise retrograde min. Earth dist.	7693 Jul 11 15:56	15°€46'53 0°N 6°N38'42	3.92230 AU	opposition min. Earth dist. direct	7699 Jul 02 03:39	15°ප55'40 15°ප50'09 10°ප53'53	
retrograde min. Earth dist.	7693 Jul 11 15:56 7693 Sep 14 18:50 7693 Nov 20 23:36	15°€46'53 0°N 6°N38'42	3.92230 AU	opposition min. Earth dist.	7699 Jul 02 03:39 7699 Jul 02 20:49 7699 Sep 02 17:54	15°පි55'40 15°පි50'09	
retrograde	7693 Jul 11 15:56 7693 Sep 14 18:50 7693 Nov 20 23:36 7694 Jan 18 07:50	15°\$46'53 0°\$\Omega\$ 6°\$\Omega\$38'42 1°\$\Omega\$45'13	3.92230 AU	opposition min. Earth dist. direct	7699 Jul 02 03:39 7699 Jul 02 20:49 7699 Sep 02 17:54 7700 Jan 06 05:57	15° ට 55'40 15° ට 50'09 10° ට 53'53 28° ට 07'55	
retrograde min. Earth dist.	7693 Jul 11 15:56 7693 Sep 14 18:50 7693 Nov 20 23:36 7694 Jan 18 07:50 7694 Jan 19 10:17	15°\$46'53 0°\$1 6°\$\Omega_38'42 1°\$\Omega_45'13 1°\$\Omega_36'16	3.92230 AU	opposition min. Earth dist. direct evening set	7699 Jul 02 03:39 7699 Jul 02 20:49 7699 Sep 02 17:54 7700 Jan 06 05:57 7700 Jan 14 22:53	15°る55'40 15°る50'09 10°る53'53 28°る07'55 0°≈	4.49272 AU
retrograde min. Earth dist. opposition	7693 Jul 11 15:56 7693 Sep 14 18:50 7693 Nov 20 23:36 7694 Jan 18 07:50 7694 Jan 19 10:17 7694 Jan 31 12:18	15°\$46'53 0°N 6°N38'42 1°N45'13 1°N36'16 30°R\$	3.92230 AU	opposition min. Earth dist. direct evening set	7699 Jul 02 03:39 7699 Jul 02 20:49 7699 Sep 02 17:54 7700 Jan 06 05:57 7700 Jan 14 22:53	15°る55'40 15°る50'09 10°る53'53 28°る07'55 0°≈	4.49272 AU 6.48178 AU
retrograde min. Earth dist. opposition	7693 Jul 11 15:56 7693 Sep 14 18:50 7693 Nov 20 23:36 7694 Jan 18 07:50 7694 Jan 19 10:17 7694 Jan 31 12:18 7694 Mar 18 07:03	15°\$46'53 0°\$\Omega\$ 6°\$\Omega\$38'42 1°\$\Omega\$45'13 1°\$\Omega\$36'16 30°\$\Omega\$ 26°\$\Omega\$41'22	3.92230 AU	opposition min. Earth dist. direct evening set max. Earth dist.	7699 Jul 02 03:39 7699 Jul 02 20:49 7699 Sep 02 17:54 7700 Jan 06 05:57 7700 Jan 14 22:53 7700 Jan 17 16:34	15°る55'40 15°る50'09 10°る53'53 28°る07'55 0°≈ 0°≈35'23	4.49272 AU 6.48178 AU 0°31'53
retrograde min. Earth dist. opposition	7693 Jul 11 15:56 7693 Sep 14 18:50 7693 Nov 20 23:36 7694 Jan 18 07:50 7694 Jan 19 10:17 7694 Jan 31 12:18 7694 Mar 18 07:03 7694 May 02 09:30	15°\$46'53 0°\$1 6°\$138'42 1°\$145'13 1°\$136'16 30°\$\$2 26°\$41'22 0°\$1	3.92230 AU	opposition min. Earth dist. direct evening set max. Earth dist. conjunction	7699 Jul 02 03:39 7699 Jul 02 20:49 7699 Sep 02 17:54 7700 Jan 06 05:57 7700 Jan 14 22:53 7700 Jan 17 16:34 7700 Jan 19 04:26	15°る55'40 15°る50'09 10°る53'53 28°る07'55 0°≈ 0°≈35'23	4.49272 AU 6.48178 AU 0°31'53
retrograde min. Earth dist. opposition direct	7693 Jul 11 15:56 7693 Sep 14 18:50 7693 Nov 20 23:36 7694 Jan 18 07:50 7694 Jan 19 10:17 7694 Jan 31 12:18 7694 Mar 18 07:03 7694 May 02 09:30 7694 Jul 16 04:27	15°946'53 0° N 6° N38'42 1° N45'13 1° N36'16 30° RS 26° S41'22 0° N 15° N	3.92230 AU	opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong	7699 Jul 02 03:39 7699 Jul 02 20:49 7699 Sep 02 17:54 7700 Jan 06 05:57 7700 Jan 14 22:53 7700 Jan 17 16:34 7700 Jan 19 04:26 7700 Jan 19 04:27	15°る55'40 15°る50'09 10°る53'53 28°る07'55 0°≈ 0°≈35'23 0°≈54'42 0°≈54'42	4.49272 AU 6.48178 AU 0°31'53
retrograde min. Earth dist. opposition direct	7693 Jul 11 15:56 7693 Sep 14 18:50 7693 Nov 20 23:36 7694 Jan 18 07:50 7694 Jan 19 10:17 7694 Jan 31 12:18 7694 Mar 18 07:03 7694 May 02 09:30 7694 Jul 16 04:27	15°\$46'53 0°\$\Omega\$ 6°\$\Omega\$38'42 1°\$\Omega\$45'13 1°\$\Omega\$36'16 30°\$\Omega\$ 26°\$\Omega\$41'22 0°\$\Omega\$ 15°\$\Omega\$ 16°\$\Omega\$37'02	3.92230 AU -0°46'33 -0°16'57	opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong	7699 Jul 02 03:39 7699 Jul 02 20:49 7699 Sep 02 17:54 7700 Jan 06 05:57 7700 Jan 14 22:53 7700 Jan 17 16:34 7700 Jan 19 04:26 7700 Jan 19 04:27 7700 Feb 01 00:29 7700 Mar 31 13:30 7700 Jun 01 12:31	15° で 55'40 15° で 55'09 10° で 53'53 28° で 07'55 0° 無 0° 無 35'23 0° 無 54'42 0° 無 54'42 3° 無 40'28	4.49272 AU 6.48178 AU 0°31'53
retrograde min. Earth dist. opposition direct evening set conjunction minimum elong	7693 Jul 11 15:56 7693 Sep 14 18:50 7693 Nov 20 23:36 7694 Jan 18 07:50 7694 Jan 19 10:17 7694 Jan 31 12:18 7694 Mar 18 07:03 7694 Muy 02 09:30 7694 Jul 16 04:27 7694 Jul 22 23:25 7694 Aug 05 13:14 7694 Aug 05 13:15	15°\$46'53 0°\$\alpha\$ 6°\$\alpha\$38'42 1°\$\alpha\$45'13 1°\$\alpha\$36'16 30°\$\alpha\$ 26°\$\sigma\$41'22 0°\$\alpha\$ 15°\$\alpha\$ 16°\$\alpha\$37'02 19°\$\alpha\$52'41 19°\$\alpha\$52'41	3.92230 AU -0°46'33 -0°16'57 0°17'02	opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition	7699 Jul 02 03:39 7699 Jul 02 20:49 7699 Sep 02 17:54 7700 Jan 06 05:57 7700 Jan 14 22:53 7700 Jan 17 16:34 7700 Jan 19 04:26 7700 Jan 19 04:27 7700 Feb 01 00:29 7700 Mar 31 13:30 7700 Jun 01 12:31 7700 Aug 01 12:16	15° である5'40 15° である0'09 10° である3'53 28° であ7'55 0° ※ 0° ※ 35'23 0° ※ 54'42 0° ※ 54'42 3° ※ 40'28 15° ※	4.49272 AU 6.48178 AU 0°31'53 0°31'59
retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist.	7693 Jul 11 15:56 7693 Sep 14 18:50 7693 Nov 20 23:36 7694 Jan 18 07:50 7694 Jan 19 10:17 7694 Jan 31 12:18 7694 Mar 18 07:03 7694 Muy 02 09:30 7694 Jul 16 04:27 7694 Jul 22 23:25 7694 Aug 05 13:14 7694 Aug 05 13:15 7694 Aug 07 16:30	15°\$46'53 0°\$\alpha\$ 6°\$\alpha 38'42 1°\$\alpha 45'13 1°\$\alpha 36'16 30°\$\alpha\$ 26°\$\sigma 41'22 0°\$\alpha\$ 15°\$\alpha\$ 16°\$\alpha 37'02 19°\$\alpha 52'41 19°\$\alpha 52'44 20°\$\alpha 23'30	3.92230 AU -0°46'33 -0°16'57	opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde	7699 Jul 02 03:39 7699 Jul 02 20:49 7699 Sep 02 17:54 7700 Jan 06 05:57 7700 Jan 14 22:53 7700 Jan 17 16:34 7700 Jan 19 04:26 7700 Jan 19 04:27 7700 Feb 01 00:29 7700 Mar 31 13:30 7700 Jun 01 12:31 7700 Aug 01 12:16 7700 Aug 02 19:42	15°る55'40 15°る50'09 10°る53'53 28°る07'55 0°≈ 0°≈35'23 0°≈54'42 0°≈54'42 3°≈40'28 15°≈ 20°≈23'10 15°≈30'24 15°≈20'22	4.49272 AU 6.48178 AU 0°31'53 0°31'59
retrograde min. Earth dist. opposition direct evening set conjunction minimum elong	7693 Jul 11 15:56 7693 Sep 14 18:50 7693 Nov 20 23:36 7694 Jan 18 07:50 7694 Jan 19 10:17 7694 Jan 31 12:18 7694 Mar 18 07:03 7694 May 02 09:30 7694 Jul 16 04:27 7694 Jul 22 23:25 7694 Aug 05 13:14 7694 Aug 05 13:15 7694 Aug 07 16:30 7694 Aug 19 05:32	15°\$46'53 0°\$\alpha\$ 6°\$\alpha 38'42 1°\$\alpha 45'13 1°\$\alpha 36'16 30°\$\alpha\$ 26°\$\sigma 41'22 0°\$\alpha\$ 15°\$\alpha\$ 16°\$\alpha 37'02 19°\$\alpha 52'41 19°\$\alpha 52'41 20°\$\alpha 23'30 23°\$\alpha 09'23	3.92230 AU -0°46'33 -0°16'57 0°17'02	opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist.	7699 Jul 02 03:39 7699 Jul 02 20:49 7699 Sep 02 17:54 7700 Jan 06 05:57 7700 Jan 14 22:53 7700 Jan 17 16:34 7700 Jan 19 04:26 7700 Jan 19 04:27 7700 Feb 01 00:29 7700 Mar 31 13:30 7700 Jun 01 12:31 7700 Aug 01 12:16 7700 Aug 02 19:42 7700 Aug 05 11:39	15° であ55'40 15° であ50'09 10° であ53'53 28° での7'55 0° ※ 0° ※ 35'23 0° ※ 54'42 0° ※ 54'42 3° ※ 40'28 15° ※ 20° ※ 23'10 15° ※ 30'24 15° ※ 20'22 15° 尽 ※	4.49272 AU 6.48178 AU 0°31'53 0°31'59
retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise	7693 Jul 11 15:56 7693 Sep 14 18:50 7693 Nov 20 23:36 7694 Jan 18 07:50 7694 Jan 19 10:17 7694 Jan 31 12:18 7694 Mar 18 07:03 7694 May 02 09:30 7694 Jul 16 04:27 7694 Jul 22 23:25 7694 Aug 05 13:14 7694 Aug 05 13:15 7694 Aug 07 16:30 7694 Aug 19 05:32 7694 Sep 17 20:44	15°\$46'53 0°\$\Omega\$ 6°\$\Omega\$38'42 1°\$\Omega\$45'13 1°\$\Omega\$36'16 30°\$\Omega\$ 26°\$\Omega\$41'22 0°\$\Omega\$ 15°\$\Omega\$16°\$\Omega\$37'02 19°\$\Omega\$52'41 20°\$\Omega\$23'30 23°\$\Omega\$09'23 0°\$\Omega\$	3.92230 AU -0°46'33 -0°16'57 0°17'02	opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition	7699 Jul 02 03:39 7699 Jul 02 20:49 7699 Sep 02 17:54 7700 Jan 06 05:57 7700 Jan 14 22:53 7700 Jan 17 16:34 7700 Jan 19 04:26 7700 Jan 19 04:27 7700 Feb 01 00:29 7700 Mar 31 13:30 7700 Jun 01 12:31 7700 Aug 01 12:16 7700 Aug 02 19:42 7700 Aug 05 11:39 7700 Oct 03 04:26	15° であ55'40 15° であ50'09 10° であ53'53 28° であ07'55 0° ※ 607'55 0° ※ 607'55 0° ※ 607'52 0° ※ 54'42 0° ※ 54'42 3° ※ 40'28 15° ※ 20° 23'10 15° ※ 30'24 15° ※ 20'22 15° R ※ 10° ※ 29'19	4.49272 AU 6.48178 AU 0°31'53 0°31'59
retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	7693 Jul 11 15:56 7693 Sep 14 18:50 7693 Nov 20 23:36 7694 Jan 18 07:50 7694 Jan 19 10:17 7694 Jan 31 12:18 7694 Mar 18 07:03 7694 May 02 09:30 7694 Jul 16 04:27 7694 Jul 22 23:25 7694 Aug 05 13:14 7694 Aug 05 13:15 7694 Aug 07 16:30 7694 Aug 19 05:32 7694 Sep 17 20:44 7694 Dec 27 23:37	15°\$46'53 0°\$\Omega\$ 6°\$\Omega\$38'42 1°\$\Omega\$45'13 1°\$\Omega\$36'16 30°\$\RS\$ 26°\$\S\$41'22 0°\$\Omega\$ 15°\$\Omega\$37'02 19°\$\Omega\$52'41 19°\$\Omega\$52'41 20°\$\Omega\$23'30 23°\$\Omega\$09'23 0°\$\Omega\$ 13°\$\Omega\$27'05	3.92230 AU -0°46'33 -0°16'57 0°17'02 5.95828 AU	opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct	7699 Jul 02 03:39 7699 Jul 02 20:49 7699 Sep 02 17:54 7700 Jan 06 05:57 7700 Jan 14 22:53 7700 Jan 17 16:34 7700 Jan 19 04:26 7700 Jan 19 04:27 7700 Feb 01 00:29 7700 Mar 31 13:30 7700 Jun 01 12:31 7700 Aug 01 12:16 7700 Aug 02 19:42 7700 Aug 05 11:39 7700 Oct 03 04:26 7700 Nov 29 13:29	15° である5'40 15° である0'09 10° である3'53 28° であの7'55 0° ※ 0° ※ 35'23 0° ※ 54'42 0° ※ 54'42 3° ※ 40'28 15° ※ 20° ※ 23'10 15° ※ 30'24 15° ※ 20'22 15° 常※ 10° ※ 29'19 15° ※	4.49272 AU 6.48178 AU 0°31'53 0°31'59
retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist.	7693 Jul 11 15:56 7693 Sep 14 18:50 7693 Nov 20 23:36 7694 Jan 18 07:50 7694 Jan 19 10:17 7694 Jan 31 12:18 7694 Mar 18 07:03 7694 May 02 09:30 7694 Jul 16 04:27 7694 Jul 22 23:25 7694 Aug 05 13:14 7694 Aug 05 13:15 7694 Aug 07 16:30 7694 Aug 19 05:32 7694 Sep 17 20:44 7694 Dec 27 23:37 7695 Feb 23 22:10	15°\$46'53 0°\$\Omega\$ 6°\$\Omega\$38'42 1°\$\Omega\$45'13 1°\$\Omega\$36'16 30°\$\RS\$ 26°\$\S\$41'22 0°\$\Omega\$ 15°\$\Omega\$37'02 19°\$\Omega\$52'41 19°\$\Omega\$52'41 20°\$\Omega\$23'30 23°\$\Omega\$09'23 0°\$\Omega\$ 13°\$\Omega\$27'05 8°\$\Omega\$35'31	3.92230 AU -0°46'33 -0°16'57 0°17'02 5.95828 AU 4.01706 AU	opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist.	7699 Jul 02 03:39 7699 Jul 02 20:49 7699 Sep 02 17:54 7700 Jan 06 05:57 7700 Jan 14 22:53 7700 Jan 17 16:34 7700 Jan 19 04:26 7700 Jan 19 04:27 7700 Feb 01 00:29 7700 Mar 31 13:30 7700 Jun 01 12:31 7700 Aug 01 12:16 7700 Aug 02 19:42 7700 Aug 05 11:39 7700 Oct 03 04:26 7700 Nov 29 13:29 7701 Feb 05 14:03	15° である5'40 15° である5'0'09 10° である3'53 28° であの7'55 0° ※ 0° ※ 35'23 0° ※ 54'42 0° ※ 54'42 3° ※ 40'28 15° ※ 20'22 15° ※ 20'22 15° ※ 10° ※ 29'19 15° ※ 27° ※ 58'13	4.49272 AU 6.48178 AU 0°31'53 0°31'59
retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	7693 Jul 11 15:56 7693 Sep 14 18:50 7693 Nov 20 23:36 7694 Jan 18 07:50 7694 Jan 19 10:17 7694 Jan 31 12:18 7694 Mar 18 07:03 7694 May 02 09:30 7694 Jul 16 04:27 7694 Jul 22 23:25 7694 Aug 05 13:14 7694 Aug 05 13:15 7694 Aug 07 16:30 7694 Aug 19 05:32 7694 Sep 17 20:44 7694 Dec 27 23:37 7695 Feb 23 22:10 7695 Feb 25 12:00	15°\$46'53 0°\$\Omega\$ 6°\$\Omega\$38'42 1°\$\Omega\$45'13 1°\$\Omega\$36'16 30°\$\Pi\$\$ 26°\$\Sigma\$41'22 0°\$\Omega\$ 15°\$\Omega\$ 16°\$\Omega\$37'02 19°\$\Omega\$52'41 20°\$\Omega\$23'30 23°\$\Omega\$09'23 0°\$\Omega\$ 13°\$\Omega\$27'05 8°\$\Omega\$35'31 8°\$\Omega\$22'38	3.92230 AU -0°46'33 -0°16'57 0°17'02 5.95828 AU 4.01706 AU	opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set	7699 Jul 02 03:39 7699 Jul 02 20:49 7699 Sep 02 17:54 7700 Jan 06 05:57 7700 Jan 14 22:53 7700 Jan 17 16:34 7700 Jan 19 04:26 7700 Jan 19 04:27 7700 Feb 01 00:29 7700 Mar 31 13:30 7700 Jun 01 12:31 7700 Aug 01 12:16 7700 Aug 02 19:42 7700 Aug 05 11:39 7700 Oct 03 04:26 7700 Nov 29 13:29 7701 Feb 05 14:03 7701 Feb 14 20:18	15° である5'40 15° である0'09 10° である3'53 28° であの7'55 0° ※ 0° ※ 35'23 0° ※ 54'42 0° ※ 54'42 3° ※ 40'28 15° ※ 20'22 15° ※ ※ 20'22 15° ※ ※ 10° ※ 29'19 15° ※ 27° ※ 58'13 0° 米	4.49272 AU 6.48178 AU 0°31'53 0°31'59 0°30'17 4.45132 AU
retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition asc. node	7693 Jul 11 15:56 7693 Sep 14 18:50 7693 Nov 20 23:36 7694 Jan 18 07:50 7694 Jan 19 10:17 7694 Jan 31 12:18 7694 Mar 18 07:03 7694 Jul 16 04:27 7694 Jul 22 23:25 7694 Aug 05 13:14 7694 Aug 05 13:15 7694 Aug 07 16:30 7694 Aug 19 05:32 7694 Sep 17 20:44 7694 Dec 27 23:37 7695 Feb 23 22:10 7695 Feb 25 12:00 7695 Mar 12 08:52	15°\$46'53 0°\$\alpha\$ 6°\$\alpha 38'42 1°\$\alpha 45'13 1°\$\alpha 36'16 30°\$\alpha\$ 26°\$\sigma 41'22 0°\$\alpha\$ 15°\$\alpha\$ 16°\$\alpha 37'02 19°\$\alpha 52'41 19°\$\alpha 52'41 20°\$\alpha 23'30 23°\$\alpha 09'23 0°\$\text{m}\$ 13°\$\text{m} 27'05 8°\$\text{m} 35'31 8°\$\text{m} 22'38 6°\$\text{m} 24'50	3.92230 AU -0°46'33 -0°16'57 0°17'02 5.95828 AU 4.01706 AU	opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct	7699 Jul 02 03:39 7699 Jul 02 20:49 7699 Sep 02 17:54 7700 Jan 06 05:57 7700 Jan 14 22:53 7700 Jan 17 16:34 7700 Jan 19 04:26 7700 Jan 19 04:27 7700 Feb 01 00:29 7700 Mar 31 13:30 7700 Jun 01 12:31 7700 Aug 01 12:16 7700 Aug 02 19:42 7700 Aug 05 11:39 7700 Oct 03 04:26 7700 Nov 29 13:29 7701 Feb 05 14:03	15° である5'40 15° である5'0'09 10° である3'53 28° であの7'55 0° ※ 0° ※ 35'23 0° ※ 54'42 0° ※ 54'42 3° ※ 40'28 15° ※ 20'22 15° ※ 20'22 15° ※ 10° ※ 29'19 15° ※ 27° ※ 58'13	4.49272 AU 6.48178 AU 0°31'53 0°31'59
retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition asc. node direct	7693 Jul 11 15:56 7693 Sep 14 18:50 7693 Nov 20 23:36 7694 Jan 18 07:50 7694 Jan 19 10:17 7694 Jan 31 12:18 7694 Mar 18 07:03 7694 Muy 02 09:30 7694 Jul 16 04:27 7694 Jul 22 23:25 7694 Aug 05 13:14 7694 Aug 05 13:15 7694 Aug 07 16:30 7694 Aug 19 05:32 7694 Sep 17 20:44 7694 Dec 27 23:37 7695 Feb 23 22:10 7695 Feb 25 12:00 7695 Mar 12 08:52 7695 Apr 24 18:10	15°\$46'53 0°\$\alpha\$ 6°\$\alpha 38'42 1°\$\alpha 45'13 1°\$\alpha 36'16 30°\$\alpha\$ 26°\$\sigma 41'22 0°\$\alpha\$ 15°\$\alpha\$ 16°\$\alpha 37'02 19°\$\alpha 52'41 19°\$\alpha 52'41 20°\$\alpha 23'30 23°\$\alpha 09'23 0°\$\text{m}\$ 13°\$\text{m} 27'05 8°\$\text{m} 35'31 8°\$\text{m} 22'38 6°\$\text{m} 24'50 3°\$\text{m} 25'26	3.92230 AU -0°46'33 -0°16'57 0°17'02 5.95828 AU 4.01706 AU	opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.	7699 Jul 02 03:39 7699 Jul 02 20:49 7699 Sep 02 17:54 7700 Jan 06 05:57 7700 Jan 14 22:53 7700 Jan 17 16:34 7700 Jan 19 04:26 7700 Jan 19 04:27 7700 Feb 01 00:29 7700 Mar 31 13:30 7700 Jun 01 12:31 7700 Aug 01 12:16 7700 Aug 02 19:42 7700 Aug 05 11:39 7700 Oct 03 04:26 7700 Nov 29 13:29 7701 Feb 05 14:03 7701 Feb 14 20:18 7701 Feb 16 05:46	15° で55'40 15° で55'09 10° で55'53 28° で07'55 0° ※ 0° ※35'23 0° ※54'42 0° ※54'42 3° ※40'28 15° ※ 20° ※23'10 15° ※30'24 15° ※20'22 15° R※ 10° ※29'19 15° ※ 27° ※58'13 0° 米 0° 米 18'25	4.49272 AU 6.48178 AU 0°31'53 0°31'59 0°30'17 4.45132 AU 6.40154 AU
retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition asc. node	7693 Jul 11 15:56 7693 Sep 14 18:50 7693 Nov 20 23:36 7694 Jan 18 07:50 7694 Jan 19 10:17 7694 Jan 31 12:18 7694 Mar 18 07:03 7694 Jul 16 04:27 7694 Jul 22 23:25 7694 Aug 05 13:14 7694 Aug 05 13:15 7694 Aug 07 16:30 7694 Aug 19 05:32 7694 Sep 17 20:44 7694 Dec 27 23:37 7695 Feb 23 22:10 7695 Feb 25 12:00 7695 Mar 12 08:52	15°\$46'53 0°\$\alpha\$ 6°\$\alpha 38'42 1°\$\alpha 45'13 1°\$\alpha 36'16 30°\$\alpha\$ 26°\$\sigma 41'22 0°\$\alpha\$ 15°\$\alpha\$ 16°\$\alpha 37'02 19°\$\alpha 52'41 19°\$\alpha 52'41 20°\$\alpha 23'30 23°\$\alpha 09'23 0°\$\text{m}\$ 13°\$\text{m} 27'05 8°\$\text{m} 35'31 8°\$\text{m} 22'38 6°\$\text{m} 24'50	3.92230 AU -0°46'33 -0°16'57 0°17'02 5.95828 AU 4.01706 AU	opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction	7699 Jul 02 03:39 7699 Jul 02 20:49 7699 Sep 02 17:54 7700 Jan 06 05:57 7700 Jan 14 22:53 7700 Jan 17 16:34 7700 Jan 19 04:26 7700 Jan 19 04:27 7700 Feb 01 00:29 7700 Mar 31 13:30 7700 Jun 01 12:31 7700 Aug 01 12:16 7700 Aug 02 19:42 7700 Aug 05 11:39 7700 Oct 03 04:26 7700 Nov 29 13:29 7701 Feb 05 14:03 7701 Feb 14 20:18 7701 Feb 16 05:46	15° で55'40 15° で550'09 10° で553'53 28° で07'55 0° ※ 0° ※35'23 0° ※54'42 0° ※54'42 3° ※40'28 15° ※ 20° ※23'10 15° ※30'24 15° ※20'22 15° R※ 10° ※29'19 15° ※ 27° ※58'13 0° 米 0° 米18'25	4.49272 AU 6.48178 AU 0°31'53 0°31'59 0°30'17 4.45132 AU 6.40154 AU 0°07'58
retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition asc. node direct evening set	7693 Jul 11 15:56 7693 Sep 14 18:50 7693 Nov 20 23:36 7694 Jan 18 07:50 7694 Jan 19 10:17 7694 Jan 31 12:18 7694 Mar 18 07:03 7694 May 02 09:30 7694 Jul 16 04:27 7694 Jul 22 23:25 7694 Aug 05 13:14 7694 Aug 05 13:15 7694 Aug 07 16:30 7694 Aug 19 05:32 7694 Sep 17 20:44 7694 Dec 27 23:37 7695 Feb 23 22:10 7695 Feb 25 12:00 7695 Mar 12 08:52 7695 Aug 29 09:28	15°S46'53 0°N 6°N38'42 1°N45'13 1°N36'16 30°RS 26°S41'22 0°N 15°N 16°N37'02 19°N52'41 19°N52'41 20°N23'30 23°N09'23 0°M 13°M27'05 8°M35'31 8°M22'38 6°M24'50 3°M25'26 22°M44'24	3.92230 AU -0°46'33 -0°16'57 0°17'02 5.95828 AU 4.01706 AU -0°01'45	opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong	7699 Jul 02 03:39 7699 Jul 02 20:49 7699 Sep 02 17:54 7700 Jan 06 05:57 7700 Jan 14 22:53 7700 Jan 17 16:34 7700 Jan 19 04:26 7700 Jan 19 04:27 7700 Feb 01 00:29 7700 Mar 31 13:30 7700 Jun 01 12:31 7700 Aug 01 12:16 7700 Aug 02 19:42 7700 Aug 05 11:39 7700 Oct 03 04:26 7700 Nov 29 13:29 7701 Feb 05 14:03 7701 Feb 14 20:18 7701 Feb 16 05:46 7701 Feb 18 09:13 7701 Feb 18 09:13	15° であ55'40 15° であ50'09 10° であ53'53 28° での7'55 0° ※ 0° ※ 35'23 0° ※ 54'42 0° ※ 54'42 3° ※ 40'28 15° ※ 20° ※ 23'10 15° ※ 30'24 15° ※ 20'22 15° R ※ 10° ※ 29'19 15° ※ 27° ※ 58'13 0° 米 0° 米 18'25 0° 米 46'44 0° 米 46'44	4.49272 AU 6.48178 AU 0°31'53 0°31'59 0°30'17 4.45132 AU 6.40154 AU
retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition asc. node direct evening set conjunction	7693 Jul 11 15:56 7693 Sep 14 18:50 7693 Nov 20 23:36 7694 Jan 18 07:50 7694 Jan 19 10:17 7694 Jan 31 12:18 7694 Mar 18 07:03 7694 May 02 09:30 7694 Jul 16 04:27 7694 Jul 22 23:25 7694 Aug 05 13:14 7694 Aug 05 13:15 7694 Aug 07 16:30 7694 Aug 19 05:32 7694 Sep 17 20:44 7694 Dec 27 23:37 7695 Feb 23 22:10 7695 Feb 25 12:00 7695 Mar 12 08:52 7695 Apr 24 18:10 7695 Aug 29 09:28	15°\$46'53 0°\$\alpha\$ 6°\$\alpha 38'42 1°\$\alpha 45'13 1°\$\alpha 36'16 30°\$\alpha\$ 26°\$\sigma 41'22 0°\$\alpha\$ 15°\$\alpha\$ 16°\$\alpha 37'02 19°\$\alpha 52'41 19°\$\alpha 52'41 20°\$\alpha 23'30 23°\$\alpha 09'23 0°\$\mathred{m}\$ 13°\$\mathred{m}\$ 27'05 8°\$\mathred{m}\$ 35'31 8°\$\mathred{m}\$ 22'38 6°\$\mathred{m}\$ 24'50 3°\$\mathred{m}\$ 25'26 22°\$\mathred{m}\$ 44'24 25°\$\mathred{m}\$ 54'52	3.92230 AU -0°46'33 -0°16'57 0°17'02 5.95828 AU 4.01706 AU -0°01'45	opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong	7699 Jul 02 03:39 7699 Jul 02 20:49 7699 Sep 02 17:54 7700 Jan 06 05:57 7700 Jan 14 22:53 7700 Jan 17 16:34 7700 Jan 19 04:26 7700 Jan 19 04:27 7700 Feb 01 00:29 7700 Mar 31 13:30 7700 Jun 01 12:31 7700 Aug 01 12:16 7700 Aug 02 19:42 7700 Aug 05 11:39 7700 Oct 03 04:26 7700 Nov 29 13:29 7701 Feb 05 14:03 7701 Feb 14 20:18 7701 Feb 18 09:13 7701 Feb 18 09:13 7701 Feb 18 09:13 7701 Feb 18 09:13	15° であ55'40 15° であ50'09 10° であ53'53 28° であ07'55 0° ※ 0° ※ 35'23 0° ※ 54'42 0° ※ 54'42 3° ※ 40'28 15° ※ 20° ※ 23'10 15° ※ 30'24 15° ※ 20'22 15° R※ 10° ※ 29'19 15° ※ 27° ※ 58'13 0° ※ 18'25 0° ※ 46'44 0° ※ 46'44 0° ※ 46'44	4.49272 AU 6.48178 AU 0°31'53 0°31'59 0°30'17 4.45132 AU 6.40154 AU 0°07'58
retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition asc. node direct evening set	7693 Jul 11 15:56 7693 Sep 14 18:50 7693 Nov 20 23:36 7694 Jan 18 07:50 7694 Jan 19 10:17 7694 Jan 31 12:18 7694 Mar 18 07:03 7694 May 02 09:30 7694 Jul 16 04:27 7694 Jul 22 23:25 7694 Aug 05 13:14 7694 Aug 05 13:15 7694 Aug 07 16:30 7694 Aug 19 05:32 7694 Sep 17 20:44 7694 Dec 27 23:37 7695 Feb 23 22:10 7695 Feb 25 12:00 7695 Mar 12 08:52 7695 Aug 29 09:28	15°S46'53 0°N 6°N38'42 1°N45'13 1°N36'16 30°RS 26°S41'22 0°N 15°N 16°N37'02 19°N52'41 19°N52'41 20°N23'30 23°N09'23 0°M 13°M27'05 8°M35'31 8°M22'38 6°M24'50 3°M25'26 22°M44'24	3.92230 AU -0°46'33 -0°16'57 0°17'02 5.95828 AU 4.01706 AU -0°01'45	opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong	7699 Jul 02 03:39 7699 Jul 02 20:49 7699 Sep 02 17:54 7700 Jan 06 05:57 7700 Jan 14 22:53 7700 Jan 17 16:34 7700 Jan 19 04:26 7700 Jan 19 04:27 7700 Feb 01 00:29 7700 Mar 31 13:30 7700 Jun 01 12:31 7700 Aug 01 12:16 7700 Aug 02 19:42 7700 Aug 05 11:39 7700 Oct 03 04:26 7700 Nov 29 13:29 7701 Feb 05 14:03 7701 Feb 14 20:18 7701 Feb 16 05:46 7701 Feb 18 09:13 7701 Feb 18 09:13	15° であ55'40 15° であ50'09 10° であ53'53 28° での7'55 0° ※ 0° ※ 35'23 0° ※ 54'42 0° ※ 54'42 3° ※ 40'28 15° ※ 20° ※ 23'10 15° ※ 30'24 15° ※ 20'22 15° R ※ 10° ※ 29'19 15° ※ 27° ※ 58'13 0° 米 0° 米 18'25 0° 米 46'44 0° 米 46'44	4.49272 AU 6.48178 AU 0°31'53 0°31'59 0°30'17 4.45132 AU 6.40154 AU 0°07'58

desc. node	7701 Jun 15 02:20	20° ¥ 21'19		direct	7707 Apr 30 15:30	8° m 20'06	
retrograde	7701 Jul 13 02:20	20°\(\frac{7}{2119}\)		evening set	7707 Sep 04 06:35	27° m 33'19	
opposition	7701 Sep 02 05:05	15° ¥ 59'31	-0°08'00	evening set	7707 Sep	0° ⊽	
min. Earth dist.	7701 Sep 02 03:03	15°) 46'55	4.33657 AU		7707 Sep 14 20.40	o –	
direct	7701 Sep 03 20:31 7701 Nov 03 09:05	10° X 59'45	4.55057 710	conjunction	7707 Sep 17 22:43	0° £ 42'50	0°17'53
evening set	7702 Mar 08 18:50	29° H 02'49		minimum elong	7707 Sep 17 22:43	0° - 42'49	0°17'52
evening set	7702 Mar 13 00:03	0°Υ		max. Earth dist.	7707 Sep 20 08:29	1° ⊆ 16'13	6.11111 AU
max. Earth dist.	7702 Mar 19 06:49	1° Υ 25'35	6.26038 AU	morning rise	7707 Oct 01 15:46	3° £ 52'26	0.111111110
max. Darm dist.	7702 17141 19 00.19	1 12555	0.20030710	retrograde	7708 Feb 05 19:17	22° £ 51'40	
conjunction	7702 Mar 21 12:54	1° Y 56'20	-0°19'06	min. Earth dist.	7708 Apr 04 05:57	17° £ 59'37	4.19310 AU
minimum elong	7702 Mar 21 12:53	1° Υ 56'19	0°19'06	opposition	7708 Apr 05 15:36	17° ⊆ 48'16	0°45'38
morning rise	7702 Apr 03 06:18	4° Υ 49'48	0 17 00	direct	7708 Jun 04 03:05	12° £ 48'26	0 .550
retrograde	7702 Aug 06 08:34	23° Y ′07'59		anov	7708 Oct 03 01:10	0°M	
opposition	7702 Oct 06 00:09	18° Y 14'13	-0°46'25	evening set	7708 Oct 08 14:21	1°M13'30	
min. Earth dist.	7702 Oct 07 10:12	18° Y 03'14	4.17775 AU		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
direct	7702 Dec 05 23:56	13° Y 16′29		conjunction	7708 Oct 22 03:36	4°M14'29	0°40'56
	7703 Apr 01 14:50	0°8		minimum elong	7708 Oct 22 03:34	4°M14'29	0°41'00
evening set	7703 Apr 10 17:15	2° 8 06'44		max. Earth dist.	7708 Oct 23 21:02	4°M37'35	6.27536 AU
max. Earth dist.	7703 Apr 21 22:14	4° 8 44'50	6.09668 AU	morning rise	7708 Nov 04 16:02	7° M 14'47	0.27030110
man. Darun uibt.	,,,03 11pr 21 22.11	. •	0.07000110	morning rise	7708 Dec 11 09:20	15° ™	
conjunction	7703 Apr 23 12:58	5° 8 07'42	-0°41'24	retrograde	7709 Mar 08 13:24	25°M03'58	
minimum elong	7703 Apr 23 12:57	5° 8 07'41	0°41'28	opposition	7709 May 07 17:53	20°M03'35	1°09'21
morning rise	7703 May 06 09:15	8° 8 09'18	0 .11 20	min. Earth dist.	7709 May 06 23:13	20°M09'47	4.34946 AU
8	7703 Jun 05 11:49	15° 8		direct	7709 Jul 07 14:13	15°M02'19	
retrograde	7703 Sep 12 02:20	27° 8 41'48			7709 Oct 28 17:32	0° ∡ 7	
opposition	7703 Nov 11 05:22	22° 8 45'42	-1°11'53	evening set	7709 Nov 10 17:14	2° х 46′10	
min. Earth dist.	7703 Nov 11 23:43	22° 8 39'40	4.02246 AU		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
direct	7704 Jan 09 19:37	17° 8 50'14		conjunction	7709 Nov 24 01:05	5° ₹ ³39'20	0°50'26
	7704 Apr 12 19:44	0°П		minimum elong	7709 Nov 24 01:05	5° ₹ 39'20	0°50'33
evening set	7704 May 14 21:06	7° Ⅱ 26'25		max. Earth dist.	7709 Nov 24 15:07	5° ∡ ¹46'57	6.41192 AU
e venning see	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, 22020		morning rise	7709 Dec 07 07:13	8° х 31′29	0.111/2110
conjunction	7704 May 27 21:52	10° Ⅱ 35'35	-0°50'04	retrograde	7710 Apr 07 17:09	25° х 30'47	
minimum elong	7704 May 27 21:52	10° I I35'35		opposition	7710 Jun 07 07:29	20° х 33'49	1°12'09
max. Earth dist.	7704 May 27 12:20	10° Ⅱ 29'48	5.96418 AU	min. Earth dist.	7710 Jun 07 07:17	20° х 33′53	4.45765 AU
morning rise	7704 Jun 10 00:38	13° Ⅱ 46'02	0.50110110	direct	7710 Aug 08 06:19	15° √ 31'57	
8	7704 Aug 27 02:44	0°ಅ			7710 Nov 28 12:05	0°る	
retrograde	7704 Oct 19 12:39	4°919'30		evening set	7710 Dec 12 01:26	2° ප 51'07	
	7704 Dec 13 05:53	30°R Ⅱ					
opposition	7704 Dec 18 05:46	29° Ⅱ 20'05	-1°11'07	conjunction	7710 Dec 25 03:54	5° る 39'21	0°45'41
min. Earth dist.	7704 Dec 17 22:58		3.92730 AU	minimum elong	7710 Dec 25 03:55	5° る 39'22	0°45'47
direct	7705 Feb 14 13:30	24° II 25'51		max. Earth dist.	7710 Dec 24 14:01	5° ರ 31'55	6.48415 AU
	7705 Apr 15 06:49	0°ಅ		morning rise	7711 Jan 07 03:54	8° る 26'26	
evening set	7705 Jun 21 01:04	14°926'54		retrograde	7711 May 07 10:43	25° る 03'47	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			opposition	7711 Jul 07 07:54	20° る 09'36	0°56'01
conjunction	7705 Jul 04 09:13	17° © 41'54	-0°39'23	min. Earth dist.	7711 Jul 08 02:24	20° る 03'40	4.49046 AU
minimum elong	7705 Jul 04 09:15	17°9541'55		direct	7711 Sep 07 22:53	15° る 07'53	
max. Earth dist.	7705 Jul 05 11:38	17°958'01	5.91580 AU		7711 Dec 31 05:13	0° ≈	
morning rise	7705 Jul 17 20:10	20°958'21		evening set	7712 Jan 11 10:55	2°≈22'52	
5	7705 Aug 25 21:12	$0^{\circ}\Omega$		max. Earth dist.	7712 Jan 22 17:32	4° ≈ 48'31	6.47486 AU
retrograde	7705 Nov 27 00:55	11° Ω 47'18					
min. Earth dist.	7706 Jan 24 07:56	6° Ω 54'01	3.93219 AU	conjunction	7712 Jan 24 08:41	5°≈09'40	0°28'55
opposition	7706 Jan 25 11:57	6° Ω 44'31		minimum elong	7712 Jan 24 08:42	5°≈09'40	0°29'01
direct	7706 Mar 24 09:52	1° Ω 49'21		morning rise	7712 Feb 06 04:24	7°≈55'31	
	7706 Jun 30 05:33	15° Ω		, and the second	7712 Mar 11 13:18	15° ≈	
evening set	7706 Jul 29 00:57	21° Ω 40'53		retrograde	7712 Jun 05 20:33	24°≈41′08	
Č				opposition	7712 Aug 05 19:43	19° ≈ 48'24	0°25'17
conjunction	7706 Aug 11 15:31	24° Ω 56'08	-0°12'51	min. Earth dist.	7712 Aug 07 05:12	19° ≈ 37'42	4.43993 AU
minimum elong	7706 Aug 11 15:32	24° £ 56′09	0°12'55		7712 Sep 25 16:07	15°R≈	-
behind sun begin	7706 Aug 11 10:29	24° Ω 53'08		direct	7712 Oct 07 12:17	14° ≈ 47'21	
behind sun end	7706 Aug 11 20:35	24° Ω 59'09			7712 Oct 19 08:03	15° ≈	
max. Earth dist.	7706 Aug 13 21:37	25° Ω 28'32	5.97314 AU		7712 Get 17 08:05 7713 Jan 30 02:56	0° ∀	
morning rise	7706 Aug 25 08:05	28° Ω 12'16	2.2.21.210	evening set	7713 Feb 09 20:12	2°) 19′27	
	7706 Sep 01 22:45	0° m)		max. Earth dist.	7713 Feb 20 10:49	4° H 39'30	6.38625 AU
retrograde	7707 Jan 02 18:39	18° m) 21'58		max. Darui dist.	,,15100 20 10.79	1 1(3) 30	5.50025 AU
asc. node	7707 Jan 22 17:21	17° m) 37'59		conjunction	7713 Feb 22 15:10	5°) €08'25	0°04'15
min. Earth dist.	7707 Jan 23 17:21 7707 Mar 01 17:26	17 mg 37 39 13° mg 30'14	4.03517 AU	minimum elong	7713 Feb 22 15:10	5°\(\)\(\)\(\)\(\)\(\)\(\)	0°04'17
opposition	7707 Mar 03 06:41	13° M) 17'34	0°04'30	behind sun begin	7713 Feb 22 13:10 7713 Feb 22 07:20	5° X 0823	0 071/
оррознин	//0/ Mai 03 00.41	1. Juji 1. J4	0 07 30	ocimia sun ocgili	, , 15 1 00 22 07.20	J 7(040/	

behind sun end morning rise	7713 Feb 22 23:01 7713 Mar 07 08:25	5° 光 12'43 7° 光 56'49		max. Earth dist.	7718 Aug 19 04:35 7718 Aug 30 14:25	0° Mp 40'11 3° Mp 22'53	5.98625 AU
desc. node	7713 Apr 24 23:15	17°) 53'08		asc. node	7718 Dec 03 21:11	21° m) 29'05	
retrograde	7713 Jul 07 19:45	25° ¥ 20'35		retrograde	7719 Jan 07 15:05	23° m) 24'56	
opposition	7713 Sep 06 17:52	20°) 27'49	-0°13'36	min. Earth dist.	7719 Mar 06 14:24	18° m) 33'34	4.05286 AU
min. Earth dist.	7713 Sep 08 17:32 7713 Sep 08 08:19	20° X 15'31	4.31809 AU	opposition	7719 Mar 08 04:42	18° Mp 20'32	0°10'55
direct	7713 Nov 07 18:06	15°) (28'14	4.51007710	direct	7719 May 05 15:33	13° m) 22'45	0 10 33
uncet	7714 Feb 25 00:22	0°Υ		ancet	7719 Aug 29 07:02	0° ⊽	
evening set	7714 Mar 13 05:05	3° Υ 36'33		evening set	7719 Sep 09 07:37	ა _ 2° ჲ 30'19	
max. Earth dist.	7714 Mar 23 18:49	6° Υ 00'58	6.23986 AU	evening sec	7713 Sep 03 07.37	2 -30 17	
max. Earth dist.	//14 With 25 10.4)	0 10030	0.23700 110	conjunction	7719 Sep 22 23:38	5° ഫ 38'50	0°21'46
conjunction	7714 Mar 25 23:08	6° Ƴ 30'52	-0°22'40	minimum elong	7719 Sep 22 23:37	5° ≏ 38'49	0°21'46
minimum elong	7714 Mar 25 23:07	6° Υ 30'51		max. Earth dist.	7719 Sep 25 08:20	5 — 36 47 6° ჲ 11'27	6.13197 AU
morning rise	7714 Apr 07 16:41	9° Υ 25'14	0 22 41	morning rise	7719 Oct 06 16:13	8° ≗ 47'17	0.13177 710
retrograde	7714 Aug 11 07:22	27°Υ52'36		retrograde	7720 Feb 10 10:08	27° £ 36'50	
opposition	7714 Oct 10 20:29	22° Υ 58'32	-0°51'01	min. Earth dist.	7720 Apr 08 22:31	27° ⊆ 44'28	4.21521 AU
min. Earth dist.	7714 Oct 10 20:23	22° Y 47'41	4.15641 AU	opposition	7720 Apr 08 22:31 7720 Apr 10 06:08	22° 2 33'49	0°50'10
		18° Y 01'03	4.13041 AU	direct	7720 Apr 10 00:08 7720 Jun 08 22:52	17° £ 33'47	0 30 10
direct	7714 Dec 10 17:03	0° 8		direct			
	7715 Mar 15 16:38				7720 Sep 15 23:50	0°M	
evening set	7715 Apr 15 09:49	6° 8 57'30	6.07631 AU	evening set	7720 Oct 13 08:22	5°M52'39	
max. Earth dist.	7715 Apr 26 17:32	9-03/3/	0.07031 AU		7720 0-4 26 20.59	00 m 52127	09.42100
	7715 4 20 06 00	9° 8 59'32	00.4212.5	conjunction	7720 Oct 26 20:58	8°M52'27	0°43'08
conjunction	7715 Apr 28 06:00	. •		minimum elong	7720 Oct 26 20:57	8°M52'27	0°43'12
minimum elong	7715 Apr 28 05:59	9° 8 59'32	0°43′40	max. Earth dist.	7720 Oct 28 12:19	9°M14'17	6.29716 AU
morning rise	7715 May 11 03:01	13° 8 02'20		morning rise	7720 Nov 09 08:37	11°M51'30	
	7715 May 19 11:53	15° 8			7720 Nov 23 19:44	15°M	
	7715 Aug 05 23:33	0°II		retrograde	7721 Mar 12 19:02	29°M32'06	
retrograde	7715 Sep 17 05:55	2° ∏ 44′20		min. Earth dist.	7721 May 11 08:33	24° M 37'57	4.36957 AU
	7715 Oct 29 22:44	30° ₹ 8		opposition	7721 May 12 01:59	24°M32'11	1°10'58
opposition	7715 Nov 16 08:25	27° 8 47'48		direct	7721 Jul 12 01:36	19°M30'50	
min. Earth dist.	7715 Nov 16 23:03	27° 8 43'00	4.00511 AU		7721 Oct 11 11:18	0° ∡ ¹	
direct	7716 Jan 14 16:42	22° 8 52'35		evening set	7721 Nov 15 03:57	7° ∡ ¹09'28	
	7716 Mar 23 20:44	$0^{\circ}\Pi$				_	
evening set	7716 May 19 21:03	12° ∏ 33'48		conjunction	7721 Nov 28 10:59	10° ∡ '01'39 −	0°50'36
				minimum elong	7721 Nov 28 10:59	10° ∡ ′01′38	0°50'43
conjunction	7716 Jun 01 22:40	15° Ⅱ 43'59		max. Earth dist.	7721 Nov 28 21:51	10° ∡ 07'31	6.42904 AU
minimum elong	7716 Jun 01 22:40	15° Ⅱ 43'59	0°49'52	morning rise	7721 Dec 11 16:07	12° ₹ 52'44	
max. Earth dist.	7716 Jun 01 17:28	15° Ⅱ 40'49	5.95149 AU	retrograde	7722 Apr 11 20:17	29° ∡ ¹46′18	
morning rise	7716 Jun 15 02:31	18° Ⅱ 55'30		opposition	7722 Jun 11 11:37	24° ∡ ¹49'49	1°10'57
	7716 Aug 03 01:42	0		min. Earth dist.	7722 Jun 11 14:10	24° ∡ ¹48'59	4.47068 AU
retrograde	7716 Oct 24 20:33	9° © 34'33		direct	7722 Aug 12 14:19	19° ∡ ¹47'59	
opposition	7716 Dec 23 12:18	4° © 34'37	-1°08'32		7722 Nov 11 14:17	0°₹	
min. Earth dist.	7716 Dec 23 02:42	4° © 37'50	3.92070 AU	evening set	7722 Dec 16 06:45	7° る 03'58	
	7717 Feb 05 22:49	30° Ŗ Ⅱ					
direct	7717 Feb 19 18:16	29° Ⅱ 40′19		conjunction	7722 Dec 29 08:20	9° ප 51'36	0°44'01
	7717 Mar 05 12:55	0 \circ \odot		minimum elong	7722 Dec 29 08:21	9° ප 51'36	0°44'07
evening set	7717 Jun 26 05:53	19° © 42'40		max. Earth dist.	7722 Dec 28 13:48	9° ⋜ 41'40	6.49203 AU
				morning rise	7723 Jan 11 07:43	12° る 38'07	
conjunction	7717 Jul 09 15:15	22° © 58'12	-0°36'26	retrograde	7723 May 11 12:51	29° る 13'27	
minimum elong	7717 Jul 09 15:16	22° © 58'13	0°36'32	opposition	7723 Jul 11 10:44	24° る 19'32	0°52'32
max. Earth dist.	7717 Jul 10 23:22	23° © 17'46	5.91606 AU	min. Earth dist.	7723 Jul 12 07:45	24° る 12'47	4.49273 AU
morning rise	7717 Jul 23 03:06	26° © 15'05		direct	7723 Sep 12 03:17	19° る 17'49	
	7717 Aug 07 20:07	$0^{\circ}\Omega$			7723 Dec 14 19:29	0° ≈	
	7717 Oct 27 12:56	15° Ω		evening set	7724 Jan 15 13:24	6° ≈ 32'31	
retrograde	7717 Dec 02 06:58	17° Ω 02'23		max. Earth dist.	7724 Jan 26 18:07	8° ≈ 57'15	6.47129 AU
	7718 Jan 06 20:43	15°R Ω					
min. Earth dist.	7718 Jan 29 10:55	12° Ω 09'20	3.93935 AU	conjunction	7724 Jan 28 10:47	9° ≈ 19'14	0°25'55
opposition	7718 Jan 30 16:33	11° Ω 59'17		minimum elong	7724 Jan 28 10:48	9° ≈ 19'15	0°26'02
direct	7718 Mar 29 14:07	7° Ω 03'53		morning rise	7724 Feb 10 05:49	12° ≈ 05'01	
	7718 Jun 10 10:25	15° Ω		Č	7724 Feb 23 23:14	15° ≈	
evening set	7718 Aug 03 06:16	26° £ 52′19		retrograde	7724 Jun 10 00:04	28°≈52'52	
<i>3</i>	 			opposition	7724 Aug 10 00:35	24°≈00'13	0°20'21
conjunction	7718 Aug 16 21:15	0° m 07'11	-0°08'32	min. Earth dist.	7724 Aug 11 11:11	23° ≈ 49'11	4.43050 AU
minimum elong	7718 Aug 16 21:16	0° Mp 07'11		direct	7724 Oct 11 15:41	18° ≈ 59'19	
behind sun begin	7718 Aug 16 13:59	0° my 02'52		~~~ * * *	7725 Jan 13 20:55	0° \	
behind sun end	7718 Aug 17 04:33	0° mg 02' 32		evening set	7725 Feb 13 23:31	6° ¥ 34'17	
Jennia Jun Cha	7718 Aug 16 09:12	0°M)		max. Earth dist.	7725 Feb 24 11:39		6.37141 AU
	, , 10 11ug 10 07.12	עויי ∨		un. Durur dist.	,,20100 27 11.37	0 1100	J.J , 171 AU

conjunction minimum elong max. Earth dist.	7747 Jan 06 18:19 7747 Jan 06 18:20 7747 Jan 05 16:17	18°පි19'26 18°පි19'27 18°පි05'29	0°39'55 0°40'02 6.49476 AU	conjunction minimum elong max. Earth dist.	7752 Jun 17 14:38 7752 Jun 17 14:39 7752 Jun 18 02:27	1°541'04 1°541'04 1°548'17	-0°46'25 0°46'32 5.91913 AU
morning rise	7747 Jan 19 16:18 7747 Mar 05 06:19	21°පි05'22 0°≈		morning rise retrograde	7752 Jun 30 21:56 7752 Nov 10 04:59	4°955'44 25°947'02	
retrograde	7747 May 19 21:42	7° ≈ 41'17		opposition	7753 Jan 08 16:45	20° © 45'37	-0°57'18
opposition	7747 Jul 19 20:34	2° ≈ 47'51	0°44'38	min. Earth dist.	7753 Jan 07 21:20	20° © 52'10	3.91209 AU
min. Earth dist.	7747 Jul 20 22:13	2° ≈ 39'38	4.48241 AU	direct	7753 Mar 07 16:11	15°951'08	
	7747 Aug 12 02:08	30°Ŗる			7753 Jun 17 08:17	0°Ω	
direct	7747 Sep 20 13:28	27° ප් 46'16		evening set	7753 Jul 12 07:04	5° Ω 52'53	
. ,	7747 Oct 30 04:45	0° ≈		. ,.	7752 1 1 25 10 16	00 00001	0025145
evening set	7748 Jan 23 23:40 7748 Jan 23 14:16	15°≈05'04 15°≈		conjunction	7753 Jul 25 19:16 7753 Jul 25 19:18	9° Ω 09'01 9° Ω 09'02	-0°25'45 0°25'50
max. Earth dist.	7748 Feb 03 22:08	13 ≈ 17°≈27'15	6.44853 AU	minimum elong max. Earth dist.	7753 Jul 27 16:34	9° Ω 36'27	5.93188 AU
max. Earm dist.	//46 Feb 03 22.06	17 &2713	0.44633 AU	morning rise	7753 Aug 08 09:58	12° Ω 26'22	3.93100 AU
conjunction	7748 Feb 05 20:08	17° ≈ 52'17	0°19'19	morning risc	7753 Aug 08 03:57	12 %2 20 22	
minimum elong	7748 Feb 05 20:09	17°≈52'17	0°19'24		7753 Nov 04 03:33	0° m)	
morning rise	7748 Feb 18 14:29	20°≈38'41	0 17 2 .	retrograde	7753 Dec 17 22:03	3° m)00'14	
8	7748 Apr 04 20:51	0° ∀		8	7754 Jan 30 17:55	30°RΩ	
retrograde	7748 Jun 18 20:32	7° ¥ 36′18		min. Earth dist.	7754 Feb 13 20:35	28° Ω 08′28	3.97775 AU
opposition	7748 Aug 18 19:30	2°) 43′46	0°09'41	opposition	7754 Feb 15 08:38	27° Ω 56′13	-0°16'04
min. Earth dist.	7748 Aug 20 09:17	2°) 31'42	4.39660 AU	direct	7754 Apr 14 09:24	22° Ω 59'53	
	7748 Sep 10 10:35	30° R ≈			7754 Jun 21 17:30	0° m	
direct	7748 Oct 20 07:10	27° ≈ 43'11		asc. node	7754 Jul 02 06:30	2° Mp 00'33	
desc. node	7748 Nov 24 01:41	29° ≈ 29'15		evening set	7754 Aug 19 01:59	12°M 32'50	
	7748 Nov 28 23:37	0° ∀					
evening set	7749 Feb 22 15:58	15° ¥ 28'33		conjunction	7754 Sep 01 17:55	15° Mp 45'26	0°04'48
max. Earth dist.	7749 Mar 05 02:07	17°) 48′03	6.32881 AU	minimum elong	7754 Sep 01 17:55	15° Mp 45'26	0°04'47
				behind sun begin	7754 Sep 01 09:45	15° m 40'39	
conjunction	7749 Mar 07 10:14	18°) 19′28		behind sun end	7754 Sep 02 02:06	15° Mp 50'13	604207 444
minimum elong	7749 Mar 07 10:13	18°) 19′28	0°07'07	max. Earth dist.	7754 Sep 04 04:57	16° Mp 20'08	6.04307 AU
behind sun begin behind sun end	7749 Mar 07 02:51 7749 Mar 07 17:35	18°) 15′22 18°) 23′34		morning rise	7754 Sep 15 11:30 7754 Nov 05 08:39	18°₯58'30 0° <u>₽</u>	
morning rise	7749 Mar 20 03:26	21°\(\frac{1}{10}\)'05		retrograde	7755 Jan 22 03:39	0 = 8° ჲ 30'20	
morning risc	7749 May 01 01:16	0° Υ		min. Earth dist.	7755 Mar 21 07:00	3° ⊆ 38'42	4.12133 AU
retrograde	7749 Jul 21 20:08	8° Υ ′58'32		opposition	7755 Mar 22 20:11	3° £ 26'05	0°29'10
opposition	7749 Sep 20 14:16	4° Υ ′05'23	-0°29'59	TT	7755 Apr 19 23:53	30°R, Mp	
min. Earth dist.	7749 Sep 22 04:54	3° Y ′52'58	4.24980 AU	direct	7755 May 20 19:03	28° m 27'12	
	7749 Oct 28 02:14	30° Ŗ ₩			7755 Jun 20 20:26	0∘ ⊽	
direct	7749 Nov 21 03:51	29° ∺ 06'31		evening set	7755 Sep 24 07:22	17° ≏ 12'42	
	7749 Dec 15 05:01	0° Y					
evening set	7750 Mar 26 18:01	17° Ƴ 35'37		conjunction	7755 Oct 07 22:22	20° ≏ 17'26	0°32'13
max. Earth dist.	7750 Apr 06 12:42	20° Y 05′17	6.16625 AU	minimum elong	7755 Oct 07 22:20	20° £ 17'25	0°32'15
		••		max. Earth dist.	7755 Oct 10 02:32	20° Ω 46'57	6.20572 AU
conjunction	7750 Apr 08 12:46	20° ℃ 33'12		morning rise	7755 Oct 21 13:05	23° Ω 21'44	
minimum elong	7750 Apr 08 12:44	20° ℃ 33'11	0°32'37		7755 Nov 21 04:21	0°M	
morning rise	7750 Apr 21 07:20	23° Ƴ 31'05 0° ႘		retrograde	7756 Feb 23 18:58	11°MJ39'13 6°MJ37'18	1901120
retrograde	7750 May 20 04:54 7750 Aug 26 10:28	12° 8 31'19		opposition min. Earth dist.	7756 Apr 23 20:12 7756 Apr 22 17:30	6°M46'13	1°01'20 4.28725 AU
opposition	7750 Oct 25 18:39	7° 8 36'25	1°03'00	direct	7756 Jun 23 01:47	1°M36'35	4.26723 AU
min. Earth dist.	7750 Oct 26 22:14		4.08330 AU	direct	7756 Oct 05 19:31	15°M	
direct	7750 Dec 24 23:24	2° 8 39'56	4.00330710	evening set	7756 Oct 27 08:03	19°M35'38	
411001	7751 Mar 30 15:11	15° 8		evening sec	7,700 000 27 00.03	17 1100000	
evening set	7751 Apr 29 23:06	21° 8 58'59		conjunction	7756 Nov 09 18:15	22° M 31'47	0°47'58
S	ī			minimum elong	7756 Nov 09 18:15	22°M31'47	0°48'05
conjunction	7751 May 12 21:12	25° 8 04'50	-0°48'20	max. Earth dist.	7756 Nov 10 20:51	22°M46'21	6.36151 AU
minimum elong	7751 May 12 21:11	25° 8 04'50	0°48'26	morning rise	7756 Nov 23 03:16	25° M27'04	
max. Earth dist.	7751 May 11 19:36	24° 8 49'27	6.01037 AU		7756 Dec 14 12:34	0° ≯	
morning rise	7751 May 25 20:54	28° 8 11'45		retrograde	7757 Mar 25 11:34	12° ∡ °44′05	
	7751 Jun 02 11:05	Π °0		opposition	7757 May 24 22:02	7° х 45′36	1°13'17
retrograde	7751 Oct 03 08:13	18° Ⅱ 24'03		min. Earth dist.	7757 May 24 13:36	7° ∡ ¹48'22	4.42172 AU
opposition	7751 Dec 02 05:13	13° Ⅱ 26'12		direct	7757 Jul 25 10:34	2°× 7 43'55	
min. Earth dist.	7751 Dec 02 09:35		3.95326 AU	evening set	7757 Nov 28 07:50	20° ∡ 10′21	
direct	7752 Jan 30 00:21	8° Ⅱ 31'36 28° Ⅱ 27'48		aanium-ti	7757 D 11 12 20	220.700112	0040121
evening set	7752 Jun 04 09:41 7752 Jun 10 17:11	28°Щ27′48 0°€		conjunction minimum elong	7757 Dec 11 12:39 7757 Dec 11 12:39	23° 尽 00'13 23° 尽 00'13	0°49'21 0°49'28
	//34 Jun 10 1/:11	0 🖘		minimum elong max. Earth dist.	7757 Dec 11 12:39 7757 Dec 11 11:02	23°×'00'13 22°× 7 59'21	6.46512 AU
				max. Darui uist.	, , 5 ; DCC 11 11.02	44 × 3741	0.70312 AU

marning risa	7757 Dec. 24, 15:09	25° ₹ ¹48'56		annagition	7763 Dec 07 11:33	18° Ⅲ 38'47	1014126
morning rise	7757 Dec 24 15:08 7758 Jan 13 14:53	23 x ·4836		opposition min. Earth dist.	7763 Dec 07 11:35	18° Д 38'09	3.94682 AU
retrograde	7758 Apr 24 05:15	0 3 12° る 31'27		direct	7764 Feb 04 04:07	18 Ⅲ 3809 13° Ⅲ 44'20	3.94082 AU
opposition	7758 Jun 24 00:05	7° る 36'11	1°05'07	direct	7764 May 25 03:09	13 Д 44 20	
min. Earth dist.	7758 Jun 24 10:32	7°る3011	4.48902 AU	avanina aat	7764 Jun 09 12:22	0 € 3°©41'14	
		7 3 3249 2° る 34'22	4.46902 AU	evening set	//04 Juli 09 12.22	3 2941 14	
direct	7758 Aug 25 08:58	19° る 47'50		agnismation	7764 Jun 22 19:10	6°954'55	0044124
evening set	7758 Dec 28 23:55	19-64/30		conjunction	7764 Jun 22 18:10 7764 Jun 22 18:11	6°954'56	0°44'42
:	7750 1 10 22-25	220=224145	0027122	minimum elong			
conjunction	7759 Jan 10 23:35	22°₹34'45	0°37'32	max. Earth dist.	7764 Jun 23 10:12	7°504'42	5.91919 AU
minimum elong	7759 Jan 10 23:37	22°る34'46	0°37'39	morning rise	7764 Jul 06 02:34	10°5510'04	
max. Earth dist.	7759 Jan 09 18:00	22°る18'51	6.49129 AU		7764 Oct 21 12:28	0°N	
morning rise	7759 Jan 23 21:03	25° る 20'38		retrograde	7764 Nov 15 08:56	1° Ω 00′21	
	7759 Feb 15 04:25	0° ≈			7764 Dec 10 02:35	30° ₹ 5	
retrograde	7759 May 24 05:16	11° ≈ 58′29		opposition	7765 Jan 13 20:55	25° © 58'32	
opposition	7759 Jul 24 03:17	7° ≈ 05′21	0°40'17	min. Earth dist.	7765 Jan 12 22:18	26° © 06'10	3.91896 AU
min. Earth dist.	7759 Jul 25 07:43	6° ≈ 56'15	4.47328 AU	direct	7765 Mar 12 18:54	21° © 03'53	
direct	7759 Sep 24 21:09	2°≈03'57			7765 May 29 11:08	$0^{\circ}\Omega$	
	7760 Jan 07 07:29	15° ≈		evening set	7765 Jul 17 10:11	11° Ω 02'07	
evening set	7760 Jan 28 06:13	19° ≈ 25'53					
max. Earth dist.	7760 Feb 08 01:35	21° ≈ 46′56	6.43443 AU	conjunction	7765 Jul 30 22:59	14° Ω 17'57	-0°21'55
				minimum elong	7765 Jul 30 23:01	14° Ω 17'58	0°22'00
conjunction	7760 Feb 10 02:16	22° ≈ 13'31	0°15'48	max. Earth dist.	7765 Aug 01 21:38	14° Ω 46′07	5.94463 AU
minimum elong	7760 Feb 10 02:17	22° ≈ 13'31	0°15'52		7765 Aug 02 20:38	15° Ω	
behind sun begin	7760 Feb 10 00:50	22° ≈ 12'44		morning rise	7765 Aug 13 14:23	17° Ω 34'57	
behind sun end	7760 Feb 10 03:44	22° ≈ 14'18			7765 Oct 08 23:48	0° m	
morning rise	7760 Feb 22 20:25	25° ≈ 00′22		retrograde	7765 Dec 22 18:46	8° m 01'40	
-	7760 Mar 17 09:42	0° ∀		min. Earth dist.	7766 Feb 18 18:08	3° Mp 09'46	3.99481 AU
retrograde	7760 Jun 23 08:49	12°) €03'55		opposition	7766 Feb 20 06:18	2° m 57'27	-0°09'44
opposition	7760 Aug 23 07:30	7° ℋ 11'24	0°04'07	11	7766 Mar 15 16:07	30°R Ω	
min. Earth dist.	7760 Aug 24 21:02	6°) €59'25	4.37865 AU	direct	7766 Apr 19 09:42	28° Ω 00'44	
desc. node	7760 Oct 03 11:30	2° H 51'52		asc. node	7766 May 14 04:28	29° £ 02'35	
direct	7760 Oct 24 16:07	2°) 11'06			7766 May 24 04:29	0° m/	
evening set	7761 Feb 27 02:18	20°) (01'53		evening set	7766 Aug 24 00:58	17° m) 27'43	
max. Earth dist.	7761 Mar 09 14:29	22° H 23'08	6.30860 AU	evening sec	,, oo 1148 21 oo 60	17 1427 13	
max. Earth dist.	7701 With 07 14.27	22 /(23 00	0.50000710				
				conjunction	7766 Sep. 06, 17:12	20° m 30'28	0°08'54
conjunction	7761 Mar 11 20:32	22°¥ 53'33	-0°10'59	conjunction	7766 Sep. 06, 17:12	20° m 39'28	0°08'54 0°08'54
conjunction	7761 Mar 11 20:32	22°\£53'33		minimum elong	7766 Sep 06 17:12	20° m 39'28	0°08'54 0°08'54
minimum elong	7761 Mar 11 20:32	22° ∺ 53'33	-0°10'59 0°10'58	minimum elong behind sun begin	7766 Sep 06 17:12 7766 Sep 06 10:03	20° m 39'28 20° m 35'18	
minimum elong behind sun begin	7761 Mar 11 20:32 7761 Mar 11 14:28	22°) 53′33 22°) 50′09		minimum elong behind sun begin behind sun end	7766 Sep 06 17:12 7766 Sep 06 10:03 7766 Sep 07 00:21	20° m 39'28 20° m 35'18 20° m 43'38	0°08'54
minimum elong behind sun begin behind sun end	7761 Mar 11 20:32 7761 Mar 11 14:28 7761 Mar 12 02:35	22°\\$53'33 22°\\$50'09 22°\\$56'56		minimum elong behind sun begin behind sun end max. Earth dist.	7766 Sep 06 17:12 7766 Sep 06 10:03 7766 Sep 07 00:21 7766 Sep 09 04:57	20° m 39'28 20° m 35'18 20° m 43'38 21° m 14'25	
minimum elong behind sun begin	7761 Mar 11 20:32 7761 Mar 11 14:28 7761 Mar 12 02:35 7761 Mar 24 13:36	22°\\$53'33 22°\\$50'09 22°\\$56'56 25°\\$44'57		minimum elong behind sun begin behind sun end	7766 Sep 06 17:12 7766 Sep 06 10:03 7766 Sep 07 00:21 7766 Sep 09 04:57 7766 Sep 20 10:33	20° m 39'28 20° m 35'18 20° m 43'38 21° m 14'25 23° m 51'31	0°08'54
minimum elong behind sun begin behind sun end morning rise	7761 Mar 11 20:32 7761 Mar 11 14:28 7761 Mar 12 02:35 7761 Mar 24 13:36 7761 Apr 12 21:26	22° X 53'33 22° X 50'09 22° X 56'56 25° X 44'57 0° Υ		minimum elong behind sun begin behind sun end max. Earth dist. morning rise	7766 Sep 06 17:12 7766 Sep 06 10:03 7766 Sep 07 00:21 7766 Sep 09 04:57 7766 Sep 20 10:33 7766 Oct 17 16:46	20° m 39'28 20° m 35'18 20° m 43'38 21° m 14'25 23° m 51'31 0° •	0°08'54
minimum elong behind sun begin behind sun end morning rise retrograde	7761 Mar 11 20:32 7761 Mar 11 14:28 7761 Mar 12 02:35 7761 Mar 24 13:36 7761 Apr 12 21:26 7761 Jul 26 16:30	22°\\$53'33 22°\\$50'09 22°\\$56'56 25°\\$44'57 0°\Y 13°\Y42'03	0°10'58	minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde	7766 Sep 06 17:12 7766 Sep 06 10:03 7766 Sep 07 00:21 7766 Sep 09 04:57 7766 Sep 20 10:33 7766 Oct 17 16:46 7767 Jan 26 17:06	20° m 39'28 20° m 35'18 20° m 43'38 21° m 14'25 23° m 51'31 0° £ 13° £ 13'51	0°08'54 6.06295 AU
minimum elong behind sun begin behind sun end morning rise retrograde opposition	7761 Mar 11 20:32 7761 Mar 11 14:28 7761 Mar 12 02:35 7761 Mar 24 13:36 7761 Apr 12 21:26 7761 Jul 26 16:30 7761 Sep 25 09:36	22°\\$53'33 22°\\$50'09 22°\\$56'56 25°\\$44'57 0°\Y 13°\Y42'03 8°\Y48'48	0°10'58 -0°35'20	minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde min. Earth dist.	7766 Sep 06 17:12 7766 Sep 06 10:03 7766 Sep 07 00:21 7766 Sep 09 04:57 7766 Sep 20 10:33 7766 Oct 17 16:46 7767 Jan 26 17:06 7767 Mar 25 22:03	20° m 39'28 20° m 35'18 20° m 43'38 21° m 14'25 23° m 51'31 0° £ 13° £ 13'51 8° £ 22'01	0°08'54 6.06295 AU 4.14200 AU
minimum elong behind sun begin behind sun end morning rise retrograde opposition min. Earth dist.	7761 Mar 11 20:32 7761 Mar 11 14:28 7761 Mar 12 02:35 7761 Mar 24 13:36 7761 Apr 12 21:26 7761 Jul 26 16:30 7761 Sep 25 09:36 7761 Sep 26 23:22	22°\\$53'33 22°\\$50'09 22°\\$56'56 25°\\$44'57 0°\Y 13°\Y42'03 8°\Y48'48 8°\Y36'40	0°10'58	minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde min. Earth dist. opposition	7766 Sep 06 17:12 7766 Sep 06 10:03 7766 Sep 07 00:21 7766 Sep 09 04:57 7766 Sep 20 10:33 7766 Oct 17 16:46 7767 Jan 26 17:06 7767 Mar 25 22:03 7767 Mar 27 09:58	20° m 39'28 20° m 35'18 20° m 43'38 21° m 14'25 23° m 51'31 0° £ 13° £ 13'51 8° £ 22'01 8° £ 09'51	0°08'54 6.06295 AU
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minimum elong behind sun begin behind sun end morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong	7761 Mar 11 20:32 7761 Mar 11 14:28 7761 Mar 12 02:35 7761 Mar 24 13:36 7761 Apr 12 21:26 7761 Jul 26 16:30 7761 Sep 25 09:36 7761 Sep 26 23:22 7761 Nov 25 19:32 7762 Mar 31 10:08 7762 Apr 11 06:32 7762 Apr 13 04:57 7762 Apr 13 04:56	22°\\$53'33 22°\\$50'09 22°\\$56'56 25°\\$44'57 0°\Tag{42'03} 8°\Tag{48'48} 8°\Tag{36'40} 3°\T50'22 22°\T25'27 24°\T56'51	0°10'58 -0°35'20 4.22890 AU 6.14640 AU -0°35'34	minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist.	7766 Sep 06 17:12 7766 Sep 06 10:03 7766 Sep 07 00:21 7766 Sep 09 04:57 7766 Sep 20 10:33 7766 Oct 17 16:46 7767 Jan 26 17:06 7767 Mar 25 22:03 7767 Mar 27 09:58 7767 May 25 12:15 7767 Oct 12 14:57 7767 Oct 12 14:55 7767 Oct 14 14:58	20° m 39'28 20° m 35'18 20° m 43'38 21° m 14'25 23° m 51'31 0° Ω 13° Ω 13'51 8° Ω 22'01 8° Ω 09'51 3° Ω 10'43 21° Ω 50'21 24° Ω 53'59 25° Ω 21'03	0°08'54 6.06295 AU 4.14200 AU 0°34'30 0°35'07
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minimum elong behind sun begin behind sun end morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise	7761 Mar 11 20:32 7761 Mar 11 14:28 7761 Mar 12 02:35 7761 Mar 24 13:36 7761 Apr 12 21:26 7761 Jul 26 16:30 7761 Sep 25 09:36 7761 Sep 26 23:22 7761 Nov 25 19:32 7762 Mar 31 10:08 7762 Apr 11 06:32 7762 Apr 13 04:57 7762 Apr 13 04:56 7762 Apr 26 00:07 7762 May 03 00:16 7762 Jul 21 19:00 7762 Aug 31 13:09	22°\\$53'33 22°\\$50'09 22°\\$56'56 25°\\$44'57 0°\Y 13°\Y42'03 8°\Y48'48 8°\Y36'40 3°\Y50'22 22°\Y25'27 24°\Y56'51 25°\Y23'55 28°\Y22'53 0°\\$ 15°\\$ 17°\\$32'17	0°10'58 -0°35'20 4.22890 AU 6.14640 AU -0°35'34 0°35'37	minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise	7766 Sep 06 17:12 7766 Sep 06 10:03 7766 Sep 07 00:21 7766 Sep 09 04:57 7766 Sep 20 10:33 7766 Oct 17 16:46 7767 Jan 26 17:06 7767 Mar 25 22:03 7767 Mar 27 09:58 7767 Sep 29 00:32 7767 Oct 12 14:57 7767 Oct 12 14:55 7767 Oct 14 14:58 7767 Oct 26 05:14 7767 Nov 04 10:46 7768 Feb 01 14:31 7768 Feb 28 00:51	20° m 39'28 20° m 35'18 20° m 43'38 21° m 14'25 23° m 51'31 0° D 13° D 13'51 8° D 22'01 8° D 9'51 3° D 10'43 21° D 50'21 24° D 53'59 25° D 21'03 27° D 57'13 0° M 15° M 16° M 06'34	0°08'54 6.06295 AU 4.14200 AU 0°34'30 0°35'07 0°35'10
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minimum elong behind sun begin behind sun end morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set conjunction min bearth dist.	7761 Mar 11 20:32 7761 Mar 11 14:28 7761 Mar 12 02:35 7761 Mar 24 13:36 7761 Apr 12 21:26 7761 Jul 26 16:30 7761 Sep 25 09:36 7761 Sep 26 23:22 7761 Nov 25 19:32 7762 Mar 31 10:08 7762 Apr 13 04:57 7762 Apr 13 04:56 7762 Apr 13 04:56 7762 Apr 26 00:07 7762 May 03 00:16 7762 Jul 21 19:00 7762 Aug 31 13:09 7762 Oct 11 17:58 7762 Oct 30 21:09 7762 Dec 29 21:25 7763 Mar 10 17:04 7763 May 17 20:07 7763 May 17 20:06	22°\\$53'33 22°\\$50'09 22°\\$56'56 25°\\$44'57 0°\Y 13°\Y42'03 8°\Y48'48 8°\Y36'40 3°\Y50'22 22°\Y25'27 24°\Y56'51 25°\Y23'56 25°\Y23'55 28°\Y22'53 0°\\$ 15°\\$ 17°\\$32'17 15°\\$\\$ 12°\\$37'00 12°\\$29'13 7°\\$40'51 15°\\$ 27°\\$04'22 0°\\$11'06 0°\\$11'06	0°10'58 -0°35'20 4.22890 AU 6.14640 AU -0°35'34 0°35'37 -1°06'12 4.06631 AU -0°49'13 0°49'20	minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong	7766 Sep 06 17:12 7766 Sep 06 10:03 7766 Sep 07 00:21 7766 Sep 09 04:57 7766 Sep 20 10:33 7766 Oct 17 16:46 7767 Jan 26 17:06 7767 Mar 25 22:03 7767 Mar 27 09:58 7767 Sep 29 00:32 7767 Oct 12 14:57 7767 Oct 12 14:55 7767 Oct 14 14:58 7767 Oct 14 14:58 7767 Oct 26 05:14 7767 Nov 04 10:46 7768 Feb 01 14:31 7768 Feb 28 00:51 7768 Mar 25 07:39 7768 Apr 27 03:13 7768 Apr 28 03:32 7768 Jun 27 13:21 7768 Sep 18 00:14 7768 Oct 31 19:09 7768 Nov 14 04:52 7768 Nov 14 04:52	20° m 39'28 20° m 35'18 20° m 43'38 21° m 14'25 23° m 51'31 0° a 13° a 13'51 8° a 22'01 8° a 09'51 3° a 10'43 21° a 50'21 24° a 53'59 25° a 21'03 27° a 57'13 0° m 15° m 16° m 06'34 15° m 11° m 13'10 11° m 05'03 6° m 04'07 15° m 23° m 59'05	0°08'54 6.06295 AU 4.14200 AU 0°34'30 0°35'07 0°35'10 6.22541 AU 4.30460 AU 1°04'10 0°48'58 0°49'04
minimum elong behind sun begin behind sun end morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set conjunction min bearth dist.	7761 Mar 11 20:32 7761 Mar 11 14:28 7761 Mar 12 02:35 7761 Mar 24 13:36 7761 Apr 12 21:26 7761 Jul 26 16:30 7761 Sep 25 09:36 7761 Sep 26 23:22 7761 Nov 25 19:32 7762 Mar 31 10:08 7762 Apr 13 04:57 7762 Apr 13 04:56 7762 Apr 13 04:56 7762 Apr 26 00:07 7762 May 03 00:16 7762 Jul 21 19:00 7762 Aug 31 13:09 7762 Oct 11 17:58 7762 Oct 30 21:09 7762 Dec 29 21:25 7763 Mar 10 17:04 7763 May 17 20:06 7763 May 17 20:06 7763 May 17 00:40	22°\\$53'33 22°\\$50'09 22°\\$56'56 25°\\$44'57 0°\Y 13°\Y42'03 8°\Y48'48 8°\Y36'40 3°\Y50'22 22°\Y25'27 24°\Y56'51 25°\Y23'56 25°\Y23'55 28°\Y22'53 0°\\$ 15°\\$ 17°\\$32'17 15°\\$\\$ 12°\\$37'00 12°\\$29'13 7°\\$40'51 15°\\$ 27°\\$04'22 0°\\$\\$11'06 0°\\$\\$11'06 29°\\$59'24	0°10'58 -0°35'20 4.22890 AU 6.14640 AU -0°35'34 0°35'37 -1°06'12 4.06631 AU -0°49'13 0°49'20	minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. opposition direct evening set	7766 Sep 06 17:12 7766 Sep 06 10:03 7766 Sep 07 00:21 7766 Sep 09 04:57 7766 Sep 20 10:33 7766 Oct 17 16:46 7767 Jan 26 17:06 7767 Mar 25 22:03 7767 Mar 27 09:58 7767 Sep 29 00:32 7767 Oct 12 14:57 7767 Oct 12 14:55 7767 Oct 14 14:58 7767 Oct 14 14:58 7767 Oct 26 05:14 7767 Nov 04 10:46 7768 Feb 01 14:31 7768 Feb 28 00:51 7768 Mar 25 07:39 7768 Apr 27 03:13 7768 Apr 28 03:32 7768 Jun 27 13:21 7768 Sep 18 00:14 7768 Oct 31 19:09 7768 Nov 14 04:52 7768 Nov 14 04:52 7768 Nov 14 04:52 7768 Nov 15 04:44	20° m 39'28 20° m 35'18 20° m 43'38 21° m 14'25 23° m 51'31 0° a 13° a 13'51 8° a 22'01 8° a 09'51 3° a 10'43 21° a 50'21 24° a 53'59 25° a 21'03 27° a 57'13 0° m 15° m 16° m 06'34 15° m 11° m 13'10 11° m 05'03 6° m 04'07 15° m 23° m 59'05	0°08'54 6.06295 AU 4.14200 AU 0°34'30 0°35'07 0°35'10 6.22541 AU 4.30460 AU 1°04'10 0°48'58 0°49'04
minimum elong behind sun begin behind sun end morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set conjunction min. Earth dist. direct evening set conjunction min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	7761 Mar 11 20:32 7761 Mar 11 14:28 7761 Mar 12 02:35 7761 Mar 24 13:36 7761 Apr 12 21:26 7761 Jul 26 16:30 7761 Sep 25 09:36 7761 Sep 26 23:22 7761 Nov 25 19:32 7762 Mar 31 10:08 7762 Apr 11 06:32 7762 Apr 13 04:56 7762 Apr 13 04:56 7762 Apr 26 00:07 7762 May 03 00:16 7762 Jul 21 19:00 7762 Aug 31 13:09 7762 Oct 11 17:58 7762 Oct 30 21:09 7762 Oct 31 21:00 7762 Dec 29 21:25 7763 Mar 10 17:04 7763 May 17 20:06 7763 May 17 20:06 7763 May 17 00:40 7763 May 17 00:40 7763 May 17 01:41	22°\\$53'33 22°\\$50'09 22°\\$56'56 25°\\$44'57 0°\Y 13°\Y42'03 8°\Y48'48 8°\Y36'40 3°\Y50'22 22°\Y25'27 24°\Y56'51 25°\Y23'56 25°\Y23'55 28°\Y22'53 0°\\$ 15°\\$ 17°\\$32'17 15°\\$ 12°\\$37'00 12°\\$29'13 7°\\$40'51 15°\\$ 27°\\$04'22 0°\\$\\$11'06 0°\\$\\$11'06 29°\\$59'24 0°\\$\\$	0°10'58 -0°35'20 4.22890 AU 6.14640 AU -0°35'34 0°35'37 -1°06'12 4.06631 AU -0°49'13 0°49'20	minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. opposition direct evening set	7766 Sep 06 17:12 7766 Sep 06 10:03 7766 Sep 07 00:21 7766 Sep 09 04:57 7766 Sep 20 10:33 7766 Oct 17 16:46 7767 Jan 26 17:06 7767 Mar 25 22:03 7767 Mar 27 09:58 7767 Oct 12 14:55 7767 Oct 12 14:55 7767 Oct 12 14:55 7767 Oct 14 14:58 7767 Oct 14 14:58 7767 Oct 26 05:14 7767 Nov 04 10:46 7768 Feb 01 14:31 7768 Feb 28 00:51 7768 Mar 25 07:39 7768 Apr 27 03:13 7768 Apr 28 03:32 7768 Jun 27 13:21 7768 Sep 18 00:14 7768 Oct 31 19:09 7768 Nov 14 04:52 7768 Nov 14 04:52 7768 Nov 15 04:44 7768 Nov 27 12:55	20° m 39'28 20° m 35'18 20° m 43'38 21° m 14'25 23° m 51'31 0° a 13° a 13'51 8° a 22'01 8° a 09'51 3° a 10'43 21° a 50'21 24° a 53'59 25° a 21'03 27° a 57'13 0° m 15° m 16° m 06'34 15° m 11° m 13'10 11° m 05'03 6° m 04'07 15° m 23° m 59'05 26° m 54'27 26° m 54'27 27° m 07'30 29° m 48'49	0°08'54 6.06295 AU 4.14200 AU 0°34'30 0°35'07 0°35'10 6.22541 AU 4.30460 AU 1°04'10 0°48'58 0°49'04

		100 30045	1010115			1201 120117	
opposition	7769 May 29 02:05	12° × 02'47		direct	7775 Jan 03 19:04	12° 8 38'17	
min. Earth dist.	7769 May 28 19:46	12° × 704'51	4.43160 AU		7775 Feb 11 07:53	15° 8	
direct	7769 Jul 29 17:27	7°× 7 01'05			7775 Apr 30 21:04	0° П	
evening set	7769 Dec 02 14:45	24° ≯ 25'37		evening set	7775 May 09 19:07	2° Ⅱ 07′26	
conjunction	7769 Dec 15 18:43	27° ₹ 15'00	0°48'24	conjunction	7775 May 22 18:44	5° Ⅱ 15'14	-0°49'44
minimum elong	7769 Dec 15 18:43	27° х 15′00	0°48'31	minimum elong	7775 May 22 18:44	5° Ⅱ 15'14	
max. Earth dist.	7769 Dec 15 12:10	27° ∡ 11′29	6.47025 AU	max. Earth dist.	7775 May 22 02:29	5° Ⅱ 05'25	5.98237 AU
morning rise	7769 Dec 28 20:40	0° る 03'17		morning rise	7775 Jun 04 20:11	8° ∏ 24'15	
	7769 Dec 28 14:30	0° ට		retrograde	7775 Oct 13 22:55	28° Ⅱ 49'34	
retrograde	7770 Apr 28 09:21	16° පි 44'20		opposition	7775 Dec 12 17:35	23° Ⅱ 50'47	-1°13'09
opposition	7770 Jun 28 03:58	11° る 49′23	1°02'30	min. Earth dist.	7775 Dec 12 15:19	23° ∏ 51′32	3.93672 AU
min. Earth dist.	7770 Jun 28 17:28	11° る 45'02	4.48929 AU	direct	7776 Feb 09 05:17	18° ∏ 56′28	
direct	7770 Aug 29 15:40	6° る 47'33			7776 May 07 04:08	0 \circ \odot	
evening set	7771 Jan 02 04:51	24° る 01'28		evening set	7776 Jun 14 16:08	8° 9 55'56	
max. Earth dist.	7771 Jan 13 20:44	26° る 31'30	6.48671 AU				
				conjunction	7776 Jun 27 22:58	12° © 10'18	-0°42'21
conjunction	7771 Jan 15 04:07	26° る 48'22	0°34'58	minimum elong	7776 Jun 27 22:59	12° © 10'19	0°42'28
minimum elong	7771 Jan 15 04:08	26° る 48'23	0°35'04	max. Earth dist.	7776 Jun 28 19:06	12° 5 22'36	5.91552 AU
morning rise	7771 Jan 28 00:56	29° る 34'12		morning rise	7776 Jul 11 08:30	15° 5 26'09	
	7771 Jan 30 01:16	0°≈			7776 Sep 16 11:20	0 $^{\circ}\Omega$	
	7771 Apr 29 22:12	15° ≈		retrograde	7776 Nov 20 15:21	6° Ω 17'07	
retrograde	7771 May 28 09:51	16° ≈ 14′03		min. Earth dist.	7777 Jan 18 01:57	1° Ω 23'14	3.92208 AU
	7771 Jun 25 22:30	15°R ≈		opposition	7777 Jan 19 02:40	1° Ω 14'52	-0°47'33
opposition	7771 Jul 28 09:21	11° ≈ 21′01	0°35'43		7777 Jan 28 10:29	30° ₹ 5	
min. Earth dist.	7771 Jul 29 14:14	11° ≈ 11'47	4.46416 AU	direct	7777 Mar 18 00:53	26° © 20'00	
direct	7771 Sep 29 02:05	6° ≈ 19'43			7777 May 04 14:22	$0^{\circ}\Omega$	
	7771 Dec 20 15:07	15° ≈			7777 Jul 17 07:46	15° Ω	
evening set	7772 Feb 01 11:57	23° ≈ 44′22		evening set	7777 Jul 22 15:44	16° Ω 16′22	
max. Earth dist.	7772 Feb 12 06:13	26°≈05′16	6.42126 AU				
				conjunction	7777 Aug 05 05:29	19° Ω 32'09	
conjunction	7772 Feb 14 07:36	26° ≈ 32'19	0°12'12	minimum elong	7777 Aug 05 05:30	19° Ω 32'10	
minimum elong	7772 Feb 14 07:36	26° ≈ 32'19	0°12'17	max. Earth dist.	7777 Aug 07 08:26	20° Ω 02'49	5.95431 AU
behind sun begin	7772 Feb 14 02:16	26° ≈ 29'25		morning rise	7777 Aug 18 21:23	22° Ω 48'56	
behind sun end	7772 Feb 14 12:56	26°≈35'13			7777 Sep 19 00:39	0° m	
morning rise	7772 Feb 27 01:25	29°≈19'34		retrograde	7777 Dec 27 19:33	13° Mp 09'28	4 000000 4 7 7
	7772 Mar 01 03:52	0° ∀		min. Earth dist.	7778 Feb 23 17:52	-•	4.00990 AU
retrograde	7772 Jun 27 20:45	16° ¥ 28'31		opposition	7778 Feb 25 06:35	8° Mp 05'12	-0°03'12
desc. node	7772 Aug 13 14:35	13° 米 21'51 11° 米 35'56	0001126	asc. node	7778 Mar 24 12:36	4° Mp 43'55	
opposition min. Earth dist.	7772 Aug 27 18:44			direct	7778 Apr 24 11:41	3°Mp08'14	
	7772 Aug 29 09:33 7772 Oct 29 02:13	6° ¥ 35'50	4.36182 AU	evening set	7778 Aug 29 03:46	22° m 30'09	
direct evening set	7772 Oct 29 02:13 7773 Mar 03 11:09	24° X 33'30		conjunction	7778 Sep 11 19:57	25° Mp 41'02	0912104
max. Earth dist.	7773 Mar 13 22:23		6.28910 AU	minimum elong	7778 Sep 11 19:56	25° mp 41'02	
max. Earm dist.	///3 Wiai 13 22.23	20 /(3241	0.28910 AU	behind sun begin	7778 Sep 11 15:03	25° m/38'12	0 13 04
conjunction	7773 Mar 16 05:15	27°) 23'41	0°14'43	behind sun end	7778 Sep 11 13:03	25° m 43'52	
minimum elong	7773 Mar 16 05:14	27° X 23'40		max. Earth dist.	7778 Sep 12 00:45	26° Mp 15'16	6.08189 AU
behind sun begin	7773 Mar 16 03:14	27° H 21'43	0 1445	morning rise	7778 Sep 25 13:20	28° m 52'10	0.00107710
behind sun end	7773 Mar 16 08:42	27° H 25'37		morning rise	7778 Sep 30 11:20	ე∘ 亞	
	7773 Mar 27 18:12	0°Υ		retrograde	7779 Jan 31 07:50	18° ≏ 05'06	
morning rise	7773 Mar 28 22:30	0° Υ 15'55		min. Earth dist.	7779 Mar 30 15:05	13° ⊆ 13'23	4.16306 AU
retrograde	7773 Jul 31 10:31	18° Ƴ 21'32		opposition	7779 Apr 01 02:37	13° ≏ 01'23	0°39'46
opposition	7773 Sep 30 03:40	13° Y 28′00	-0°40'26	direct	7779 May 30 08:25	8° ഫ 02'00	
min. Earth dist.	7773 Oct 01 15:28	13° Υ 16'28	4.20782 AU	evening set	7779 Oct 03 20:51	26° ≏ 35'38	
direct	7773 Nov 30 09:06	8° Y 29'49		<i>8</i>			
evening set	7774 Apr 05 00:48	27° Υ 11'02		conjunction	7779 Oct 17 10:52	29° Ω 38'09	0°37'54
max. Earth dist.	7774 Apr 16 01:22	29° Y 45'33	6.12544 AU	minimum elong	7779 Oct 17 10:50	29° ₽ 38'08	0°37'58
	-			max. Earth dist.	7779 Oct 19 09:00	0°M04'02	6.24717 AU
conjunction	7774 Apr 17 20:01	0° 8 10'33	-0°38'18		7779 Oct 19 01:49	0°M	
minimum elong	7774 Apr 17 19:59	0° 8 10'33	0°38'21	morning rise	7779 Oct 31 00:18	2°M40'06	
-	7774 Apr 17 02:00	9° 8			7779 Dec 31 15:06	15°M	
morning rise	7774 Apr 30 15:31	3° 8 10'35		retrograde	7780 Mar 03 10:42	20°M40'30	
	7774 Jun 24 17:56	15° 8		opposition	7780 May 02 13:42	15°M39'32	1°06'42
retrograde	7774 Sep 05 17:25	22° 8 29'45		min. Earth dist.	7780 May 01 15:32	15°M46'54	4.32545 AU
opposition	7774 Nov 04 22:32	17° 8 34'09	-1°08'56		7780 May 07 12:55	15°RM	
min. Earth dist.	7774 Nov 05 20:52	17° 8 26'51	4.04716 AU	direct	7780 Jul 02 04:30	10°M38'31	
	7774 Nov 25 14:50	15° ₹ 8			7780 Aug 26 11:35	15° ™	

evening set	7780 Nov 05 08:22	28°ML28'00		morning rise	7786 May 05 05:13	7° 8 53'59	
e renning see	7780 Nov 12 09:58	0°×7		morning not	7786 Jun 05 12:52	15° 8	
		•		retrograde	7786 Sep 10 18:08	27° 8 24'17	
conjunction	7780 Nov 18 17:11	1° ∡ 722'17	0°49'45	opposition	7786 Nov 09 22:09	22° 8 28'17	-1°11'11
minimum elong	7780 Nov 18 17:10	1° ∡ 722'17	0°49'51	min. Earth dist.	7786 Nov 10 17:21	22° 8 21'59	4.02413 AU
max. Earth dist.	7780 Nov 19 13:08	1° ≯ ³33'08	6.39399 AU	direct	7787 Jan 08 12:12	17° 8 32'38	
morning rise	7780 Dec 02 00:25	4° ҂ 15'34			7787 Apr 13 22:22	$\Pi^{\circ}0$	
retrograde	7781 Apr 02 18:00	21° ∡ ¹20'58		evening set	7787 May 14 16:18	7° Ⅱ 09'12	
opposition	7781 Jun 02 07:25	16° ∡ ¹23'24	1°12'52		·		
min. Earth dist.	7781 Jun 02 03:22	16° ∡ ¹24'43	4.44679 AU	conjunction	7787 May 27 16:52	10° Ⅲ 18′21	-0°49'54
direct	7781 Aug 03 02:29	11° ∡ ¹21'37		minimum elong	7787 May 27 16:52	10° Ⅱ 18′21	0°50'00
evening set	7781 Dec 06 21:54	28° ⊀ 42'26		max. Earth dist.	7787 May 27 04:53	10° Ⅱ 11′05	5.96260 AU
	7781 Dec 12 23:15	ರ∘ರ		morning rise	7787 Jun 09 19:25	13° Ⅱ 28'46	
					7787 Aug 28 17:59	0 \circ \odot	
conjunction	7781 Dec 20 01:13	1° ರ 31'06	0°47'14	retrograde	7787 Oct 19 07:19	4° 5 03'03	
minimum elong	7781 Dec 20 01:13	1°る31'07	0°47'23		7787 Dec 10 22:23	30°Ŗ Ⅱ	
max. Earth dist.	7781 Dec 19 16:41	1° පි 26'32	6.48118 AU	opposition	7787 Dec 17 23:42	29° Ⅱ 03'45	-1°11'23
morning rise	7782 Jan 02 02:07	4° ප 18'37		min. Earth dist.	7787 Dec 17 18:47	29° Ⅱ 05′24	3.92231 AU
retrograde	7782 May 02 10:15	20° පි 56'21		direct	7788 Feb 14 08:41	24° Ⅱ 09'26	
opposition	7782 Jul 02 07:05	16° පි 01'45	0°59'39		7788 Apr 15 14:23	0 \circ \odot	
min. Earth dist.	7782 Jul 02 22:17	15° පි 56'52	4.49530 AU	evening set	7788 Jun 19 21:05	14° © 13'13	
direct	7782 Sep 02 20:45	10° る 59'58					
evening set	7783 Jan 06 08:24	28° る 12'32		conjunction	7788 Jul 03 05:16	17° © 28'33	-0°39'48
	7783 Jan 14 16:58	0° ≈		minimum elong	7788 Jul 03 05:17	17° 5 28'34	0°39'55
max. Earth dist.	7783 Jan 17 19:17	0° ≈ 39'59	6.48720 AU	max. Earth dist.	7788 Jul 04 07:31	17° 5 644'35	5.90815 AU
				morning rise	7788 Jul 16 15:55	20° © 45'17	
conjunction	7783 Jan 19 06:51	0° ≈ 59'07	0°32'19		7788 Aug 25 15:10	0 $^{\circ}$ Ω	
minimum elong	7783 Jan 19 06:52	0° ≈ 59'08	0°32'25	retrograde	7788 Nov 26 00:27	11° Ω 37'52	
morning rise	7783 Feb 01 03:12	3° ≈ 44'44		min. Earth dist.	7789 Jan 23 06:20	6° Ω 44'27	3.92276 AU
	7783 Mar 31 08:19	15° ≈		opposition	7789 Jan 24 09:35	6° Ω 35'12	-0°42'05
retrograde	7783 Jun 01 14:13	20° ≈ 25′16		direct	7789 Mar 23 06:17	1° Ω 40′08	
opposition	7783 Aug 01 13:40	15° ≈ 32'20	0°31'08		7789 Jun 29 15:57	15° Ω	
min. Earth dist.	7783 Aug 02 21:21	15° ≈ 22'13	4.45889 AU	evening set	7789 Jul 27 23:52	21° Ω 35'31	
	7783 Aug 05 19:03	15°R ≈					
direct	7783 Oct 03 07:44	10° ≈ 31'03		conjunction	7789 Aug 10 14:15	24° Ω 51'13	
	7783 Nov 29 12:00	15° ≈		minimum elong	7789 Aug 10 14:16	24° Ω 51'14	0°13'39
evening set	7784 Feb 05 14:44	27° ≈ 57'17		behind sun begin	7789 Aug 10 09:49	24° Ω 48'35	
	7784 Feb 14 23:12	0° ∀		behind sun end	7789 Aug 10 18:42	24° Ω 53'53	
max. Earth dist.	7784 Feb 16 06:42	0° 升 17'17	6.41041 AU	max. Earth dist.	7789 Aug 12 19:27		5.96276 AU
				morning rise	7789 Aug 24 07:00	28° Ω 07'53	
conjunction	7784 Feb 18 10:04	0°) 45′29	0°08'43		7789 Sep 01 04:34	0° m	
minimum elong	7784 Feb 18 10:05	0°) 45′29	0°08'47	retrograde	7790 Jan 01 20:02	18° m/22'06	
behind sun begin	7784 Feb 18 03:11	0°) 41'43		asc. node	7790 Feb 01 09:43	16° m 50'28	
behind sun end	7784 Feb 18 16:58	0°) 49'15		min. Earth dist.	7790 Feb 28 17:59	13° Mp 30'46	4.02502 AU
morning rise	7784 Mar 02 03:34	3°) € 33'02		opposition	7790 Mar 02 08:31	13° m 17'39	0°03'23
desc. node	7784 Jun 25 20:54	20°) 43'14		direct	7790 Apr 29 15:23	8° Tp 20'16	
retrograde	7784 Jul 02 03:52	20°\(\frac{1}{46}\)'58	0006145	evening set	7790 Sep 03 08:30	27° Mp 36'46	
opposition	7784 Sep 01 02:57	15° ¥ 54'16			7790 Sep 13 16:09	0∘ ⊽	
min. Earth dist.			4 2 4 5 0 0 A T T		•		
direct	7784 Sep 02 17:45	15° ¥ 41'53	4.34588 AU		7700 5 17 00:44	09 0 46142	0017111
	7784 Nov 02 07:24	10° ¥ 54'17	4.34588 AU	conjunction	7790 Sep 17 00:44	0° £ 46'43	0°17'11
evening set	7784 Nov 02 07:24 7785 Mar 07 17:12	10° 米 54'17 28° 米 54'29	4.34588 AU	minimum elong	7790 Sep 17 00:43	0° ≏ 46'42	0°17'10
-	7784 Nov 02 07:24 7785 Mar 07 17:12 7785 Mar 12 13:25	10°¥54'17 28°¥54'29 0° Υ		minimum elong max. Earth dist.	7790 Sep 17 00:43 7790 Sep 19 11:51	0° £ 46'42 1° £ 20'58	
max. Earth dist.	7784 Nov 02 07:24 7785 Mar 07 17:12	10°¥54'17 28°¥54'29 0° Υ	4.34588 AU 6.26909 AU	minimum elong max. Earth dist. morning rise	7790 Sep 17 00:43 7790 Sep 19 11:51 7790 Sep 30 17:46	0° £ 46'42 1° £ 20'58 3° £ 56'44	0°17'10
max. Earth dist.	7784 Nov 02 07:24 7785 Mar 07 17:12 7785 Mar 12 13:25 7785 Mar 18 04:53	10°¥54'17 28°¥54'29 0°Y 1°Y16'46	6.26909 AU	minimum elong max. Earth dist. morning rise retrograde	7790 Sep 17 00:43 7790 Sep 19 11:51 7790 Sep 30 17:46 7791 Feb 05 02:03	0° Ω 46′42 1° Ω 20′58 3° Ω 56′44 22° Ω 59′27	0°17'10 6.10221 AU
max. Earth dist.	7784 Nov 02 07:24 7785 Mar 07 17:12 7785 Mar 12 13:25 7785 Mar 18 04:53 7785 Mar 20 11:14	10°¥54'17 28°¥54'29 0°Υ 1°Υ16'46	6.26909 AU -0°18'13	minimum elong max. Earth dist. morning rise retrograde min. Earth dist.	7790 Sep 17 00:43 7790 Sep 19 11:51 7790 Sep 30 17:46 7791 Feb 05 02:03 7791 Apr 04 10:54	0° Ω 46'42 1° Ω 20'58 3° Ω 56'44 22° Ω 59'27 18° Ω 07'22	0°17'10 6.10221 AU 4.18607 AU
max. Earth dist. conjunction minimum elong	7784 Nov 02 07:24 7785 Mar 07 17:12 7785 Mar 12 13:25 7785 Mar 18 04:53 7785 Mar 20 11:14 7785 Mar 20 11:13	10° X 54'17 28° X 54'29 0° Υ 1° Υ 16'46 1° Υ 47'37 1° Υ 47'37	6.26909 AU -0°18'13	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	7790 Sep 17 00:43 7790 Sep 19 11:51 7790 Sep 30 17:46 7791 Feb 05 02:03 7791 Apr 04 10:54 7791 Apr 05 20:53	0° № 46'42 1° № 20'58 3° № 56'44 22° № 59'27 18° № 07'22 17° № 55'54	0°17'10 6.10221 AU
max. Earth dist. conjunction minimum elong morning rise	7784 Nov 02 07:24 7785 Mar 07 17:12 7785 Mar 12 13:25 7785 Mar 18 04:53 7785 Mar 20 11:14 7785 Mar 20 11:13 7785 Apr 02 04:32	10°¥54'17 28°¥54'29 0°Υ 1°Υ16'46 1°Υ47'37 1°Υ47'37 4°Υ40'41	6.26909 AU -0°18'13	minimum elong max. Earth dist. morning rise retrograde min. Earth dist.	7790 Sep 17 00:43 7790 Sep 19 11:51 7790 Sep 30 17:46 7791 Feb 05 02:03 7791 Apr 04 10:54 7791 Apr 05 20:53 7791 Jun 04 08:11	0° Ω 46'42 1° Ω 20'58 3° Ω 56'44 22° Ω 59'27 18° Ω 07'22 17° Ω 55'54 12° Ω 56'10	0°17'10 6.10221 AU 4.18607 AU
max. Earth dist. conjunction minimum elong morning rise retrograde	7784 Nov 02 07:24 7785 Mar 07 17:12 7785 Mar 12 13:25 7785 Mar 18 04:53 7785 Mar 20 11:14 7785 Mar 20 11:13 7785 Apr 02 04:32 7785 Aug 05 04:20	10° \(\) 54'17 28° \(\) 54'29 0° \(\) 1° \(\) 16'46 1° \(\) 47'37 4° \(\) 40'41 22° \(\) 55'17	6.26909 AU -0°18'13 0°18'13	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	7790 Sep 17 00:43 7790 Sep 19 11:51 7790 Sep 30 17:46 7791 Feb 05 02:03 7791 Apr 04 10:54 7791 Apr 05 20:53 7791 Jun 04 08:11 7791 Oct 02 12:33	0°	0°17'10 6.10221 AU 4.18607 AU
max. Earth dist. conjunction minimum elong morning rise retrograde opposition	7784 Nov 02 07:24 7785 Mar 07 17:12 7785 Mar 12 13:25 7785 Mar 18 04:53 7785 Mar 20 11:14 7785 Mar 20 11:13 7785 Apr 02 04:32 7785 Aug 05 04:20 7785 Oct 04 18:59	10° \(\) 54'17 28° \(\) 54'29 0° \(\) 1° \(\) 16'46 1° \(\) 47'37 4° \(\) 40'41 22° \(\) 55'17 18° \(\) 01'32	6.26909 AU -0°18'13 0°18'13 -0°45'09	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	7790 Sep 17 00:43 7790 Sep 19 11:51 7790 Sep 30 17:46 7791 Feb 05 02:03 7791 Apr 04 10:54 7791 Apr 05 20:53 7791 Jun 04 08:11	0° Ω 46'42 1° Ω 20'58 3° Ω 56'44 22° Ω 59'27 18° Ω 07'22 17° Ω 55'54 12° Ω 56'10	0°17'10 6.10221 AU 4.18607 AU
max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist.	7784 Nov 02 07:24 7785 Mar 07 17:12 7785 Mar 12 13:25 7785 Mar 18 04:53 7785 Mar 20 11:14 7785 Mar 20 11:13 7785 Apr 02 04:32 7785 Aug 05 04:20 7785 Oct 04 18:59 7785 Oct 06 07:23	10° ¥ 54'17 28° ¥ 54'29 0° Υ 1° Υ 16'46 1° Υ 47'37 1° Υ 47'37 4° Υ 40'41 22° Υ 55'17 18° Υ 01'32 17° Υ 49'47	6.26909 AU -0°18'13 0°18'13	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	7790 Sep 17 00:43 7790 Sep 19 11:51 7790 Sep 30 17:46 7791 Feb 05 02:03 7791 Apr 04 10:54 7791 Apr 05 20:53 7791 Jun 04 08:11 7791 Oct 02 12:33 7791 Oct 08 18:21	0° Ω 46'42 1° Ω 20'58 3° Ω 56'44 22° Ω 59'27 18° Ω 07'22 17° Ω 55'54 12° Ω 56'10 0° M 1° M 22'46	0°17'10 6.10221 AU 4.18607 AU 0°44'45
max. Earth dist. conjunction minimum elong morning rise retrograde opposition	7784 Nov 02 07:24 7785 Mar 07 17:12 7785 Mar 12 13:25 7785 Mar 18 04:53 7785 Mar 20 11:14 7785 Mar 20 11:13 7785 Apr 02 04:32 7785 Aug 05 04:20 7785 Oct 04 18:59 7785 Oct 06 07:23 7785 Dec 04 21:26	10° \ 54'17 28° \ 54'29 0° \ \ 1° \ 16'46 1° \ 47'37 1° \ 47'37 4° \ 40'41 22° \ 755'17 18° \ 701'32 17° \ 49'47 13° \ 703'32	6.26909 AU -0°18'13 0°18'13 -0°45'09	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction	7790 Sep 17 00:43 7790 Sep 19 11:51 7790 Sep 30 17:46 7791 Feb 05 02:03 7791 Apr 04 10:54 7791 Apr 05 20:53 7791 Jun 04 08:11 7791 Oct 02 12:33 7791 Oct 08 18:21 7791 Oct 22 07:43	0°	0°17'10 6.10221 AU 4.18607 AU 0°44'45 0°40'26
max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct	7784 Nov 02 07:24 7785 Mar 07 17:12 7785 Mar 12 13:25 7785 Mar 18 04:53 7785 Mar 20 11:14 7785 Mar 20 11:13 7785 Apr 02 04:32 7785 Oct 04 18:59 7785 Oct 06 07:23 7785 Dec 04 21:26 7786 Apr 01 12:27	10° ¥ 54'17 28° ¥ 54'29 0° Υ 1° Υ 16'46 1° Υ 47'37 1° Υ 47'37 4° Υ 40'41 22° Υ 55'17 18° Υ 01'32 17° Υ 49'47 13° Υ 03'32 0° 8	6.26909 AU -0°18'13 0°18'13 -0°45'09	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong	7790 Sep 17 00:43 7790 Sep 19 11:51 7790 Sep 30 17:46 7791 Feb 05 02:03 7791 Apr 04 10:54 7791 Apr 05 20:53 7791 Jun 04 08:11 7791 Oct 02 12:33 7791 Oct 08 18:21 7791 Oct 22 07:43 7791 Oct 22 07:42	0° \$\textit{\Omega}46'42\\ 1° \$\textit{\Omega}20'58\\ 3° \$\textit{\Omega}56'44\\ 22° \$\textit{\Omega}59'27\\ 18° \$\textit{\Omega}07'22\\ 17° \$\textit{\Omega}55'54\\ 12° \$\textit{\Omega}56'10\\ 0° \$\textit{\Omega}\\ 1° \$\textit{\Omega}2'46\\ 4° \$\textit{\Omega}24'00\\ 4° \$\textit{\Omega}23'59\\	0°17'10 6.10221 AU 4.18607 AU 0°44'45 0°40'26 0°40'30
max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set	7784 Nov 02 07:24 7785 Mar 07 17:12 7785 Mar 12 13:25 7785 Mar 18 04:53 7785 Mar 20 11:14 7785 Mar 20 11:13 7785 Apr 02 04:32 7785 Aug 05 04:20 7785 Oct 04 18:59 7785 Oct 06 07:23 7785 Dec 04 21:26 7786 Apr 01 12:27 7786 Apr 09 13:18	10°\; 54'17 28°\; 54'29 0°\; 1°\; 16'46 1°\; 47'37 1°\; 47'37 4°\; 40'41 22°\; 55'17 18°\; 701'32 17°\; 49'47 13°\; 703'32 0°\; 8 1°\; 55'54	6.26909 AU -0°18'13 0°18'13 -0°45'09 4.18484 AU	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist.	7790 Sep 17 00:43 7790 Sep 19 11:51 7790 Sep 30 17:46 7791 Feb 05 02:03 7791 Apr 04 10:54 7791 Apr 05 20:53 7791 Jun 04 08:11 7791 Oct 02 12:33 7791 Oct 08 18:21 7791 Oct 22 07:43 7791 Oct 22 07:42 7791 Oct 24 03:47	0° \$\textit{\Omega}46'42 1° \$\textit{\Omega}20'58 3° \$\textit{\Omega}56'44 22° \$\textit{\Omega}59'27 18° \$\textit{\Omega}07'22 17° \$\textit{\Omega}55'54 12° \$\textit{\Omega}56'10 0° \$\textit{\Omega}1 \textit{\Omega}2'46 4° \$\textit{\Omega}24'00 4° \$\textit{\Omega}23'59 4° \$\textit{\Omega}48'35	0°17'10 6.10221 AU 4.18607 AU 0°44'45 0°40'26
max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct	7784 Nov 02 07:24 7785 Mar 07 17:12 7785 Mar 12 13:25 7785 Mar 18 04:53 7785 Mar 20 11:14 7785 Mar 20 11:13 7785 Apr 02 04:32 7785 Oct 04 18:59 7785 Oct 06 07:23 7785 Dec 04 21:26 7786 Apr 01 12:27	10° ¥ 54'17 28° ¥ 54'29 0° Υ 1° Υ 16'46 1° Υ 47'37 1° Υ 47'37 4° Υ 40'41 22° Υ 55'17 18° Υ 01'32 17° Υ 49'47 13° Υ 03'32 0° 8	6.26909 AU -0°18'13 0°18'13 -0°45'09	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong	7790 Sep 17 00:43 7790 Sep 19 11:51 7790 Sep 30 17:46 7791 Feb 05 02:03 7791 Apr 04 10:54 7791 Apr 05 20:53 7791 Jun 04 08:11 7791 Oct 02 12:33 7791 Oct 08 18:21 7791 Oct 22 07:43 7791 Oct 24 03:47 7791 Nov 04 20:23	0°	0°17'10 6.10221 AU 4.18607 AU 0°44'45 0°40'26 0°40'30
max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.	7784 Nov 02 07:24 7785 Mar 07 17:12 7785 Mar 12 13:25 7785 Mar 18 04:53 7785 Mar 20 11:14 7785 Mar 20 11:13 7785 Apr 02 04:32 7785 Aug 05 04:20 7785 Oct 04 18:59 7785 Oct 06 07:23 7785 Dec 04 21:26 7786 Apr 01 12:27 7786 Apr 09 13:18 7786 Apr 20 15:07	10°\; 54'17 28°\; 54'29 0°\; 1°\; 16'46 1°\; 47'37 1°\; 44'47'37 4°\; 40'41 22°\; 55'17 18°\; 701'32 17°\; 49'47 13°\; 703'32 0°\; 8 1°\; 55'54 4°\; 827'59	6.26909 AU -0°18'13 0°18'13 -0°45'09 4.18484 AU 6.10134 AU	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise	7790 Sep 17 00:43 7790 Sep 19 11:51 7790 Sep 30 17:46 7791 Feb 05 02:03 7791 Apr 04 10:54 7791 Apr 05 20:53 7791 Jun 04 08:11 7791 Oct 02 12:33 7791 Oct 08 18:21 7791 Oct 22 07:42 7791 Oct 24 03:47 7791 Nov 04 20:23 7791 Dec 10 16:55	0°	0°17'10 6.10221 AU 4.18607 AU 0°44'45 0°40'26 0°40'30
max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set	7784 Nov 02 07:24 7785 Mar 07 17:12 7785 Mar 12 13:25 7785 Mar 18 04:53 7785 Mar 20 11:14 7785 Mar 20 11:13 7785 Apr 02 04:32 7785 Aug 05 04:20 7785 Oct 04 18:59 7785 Oct 06 07:23 7785 Dec 04 21:26 7786 Apr 01 12:27 7786 Apr 09 13:18	10°\; 54'17 28°\; 54'29 0°\; 1°\; 16'46 1°\; 47'37 1°\; 47'37 4°\; 40'41 22°\; 55'17 18°\; 701'32 17°\; 49'47 13°\; 703'32 0°\; 8 1°\; 55'54	6.26909 AU -0°18'13 0°18'13 -0°45'09 4.18484 AU 6.10134 AU -0°40'43	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist.	7790 Sep 17 00:43 7790 Sep 19 11:51 7790 Sep 30 17:46 7791 Feb 05 02:03 7791 Apr 04 10:54 7791 Apr 05 20:53 7791 Jun 04 08:11 7791 Oct 02 12:33 7791 Oct 08 18:21 7791 Oct 22 07:43 7791 Oct 24 03:47 7791 Nov 04 20:23	0°	0°17'10 6.10221 AU 4.18607 AU 0°44'45 0°40'26 0°40'30

7803 Oct 28 00:57

conjunction

9°M02'21 0°42'38

minimum elong	7803 Oct 28 00:56	9° M .02'20	0°42'42	min. Earth dist.	7809 Oct 17 02:03	27° Ƴ 34'54	4.13415 AU
max. Earth dist.	7803 Oct 28 00:30 7803 Oct 29 16:22	9°M24'14	6.29573 AU	direct	7809 Dec 15 09:26	22°Υ48'09	4.15415 AO
morning rise	7803 Nov 10 12:45	12°ML01'30	0.27575710	unect	7810 Feb 24 05:36	0°8	
	7803 Nov 24 05:07	15°ML		evening set	7810 Apr 20 05:49	11° 8 52'08	
retrograde	7804 Mar 13 01:48	29°M42'43		max. Earth dist.	7810 May 01 16:52	14° 8 35'17	6.05450 AU
opposition	7804 May 12 08:03	24°M42'35	1°10'27		•		
min. Earth dist.	7804 May 11 14:56	24°M48'15	4.36881 AU	conjunction	7810 May 03 02:39	14° 8 55'24	-0°44'59
direct	7804 Jul 12 08:05	19° M 41'11		minimum elong	7810 May 03 02:38	14° 8 55'23	0°45'04
	7804 Oct 10 18:55	0°⊀			7810 May 03 10:23	15° 8	
evening set	7804 Nov 15 08:14	7° ∡ 19′28		morning rise	7810 May 16 00:18	17° 8 59'28	
					7810 Jul 10 00:49	$\Pi^{\circ}0$	
conjunction	7804 Nov 28 15:28	10° ∡ 11'43	0°50'23	retrograde	7810 Sep 22 13:15	7° Ⅱ 51'14	
minimum elong	7804 Nov 28 15:28	10° ∡ 11'43	0°50'31	opposition	7810 Nov 21 13:08	2° ∏ 54'28	
max. Earth dist.	7804 Nov 29 03:30	10° ∡ 18'13	6.42874 AU	min. Earth dist.	7810 Nov 22 02:04		3.98589 AU
morning rise	7804 Dec 11 20:46	13° ∡ 02'52			7810 Dec 15 04:28	30° ₹ 8	
retrograde	7805 Apr 12 01:07	29° ∡ 56'40		direct	7811 Jan 19 17:48	27° 8 59'28	
opposition	7805 Jun 11 17:14	25° ∡ ′00′00	1°10'53		7811 Feb 23 21:31	$0^{\circ}\Pi$	
min. Earth dist.	7805 Jun 11 18:39	24° ₹ 59'32	4.47078 AU	evening set	7811 May 26 00:54	17° ∏ 47'05	
direct	7805 Aug 12 18:24	19° ∡ 58'07					
	7805 Nov 10 21:56	0°る		conjunction	7811 Jun 08 03:23	20° I 58'22	
evening set	7805 Dec 16 11:23	7° る 13'49		minimum elong	7811 Jun 08 03:23	20° ∏ 58′22	0°49'08
	5005 D 00 10 11	100701100	004407	max. Earth dist.	7811 Jun 08 01:53	20° ∏ 57′28	5.93681 AU
conjunction	7805 Dec 29 13:11	10°る01'29	0°44'07	morning rise	7811 Jun 21 08:16	24° Ⅱ 11'04	
minimum elong	7805 Dec 29 13:12	10°る01'29	0°44'15	. 1	7811 Jul 15 22:14	0°95	
max. Earth dist.	7805 Dec 28 19:45	9° る 52'08	6.49258 AU	retrograde	7811 Oct 31 07:25	14°956'00	1005142
morning rise	7806 Jan 11 12:39	12°る48'01 29°る23'16		opposition	7811 Dec 29 21:38	9°955'44	
retrograde	7806 May 11 18:30	29° る 23°16 24° る 29'17	0°52'56	min. Earth dist.	7811 Dec 29 08:35 7812 Feb 26 00:30	5°901'28	3.91248 AU
opposition min. Earth dist.	7806 Jul 11 15:58 7806 Jul 12 13:01	24° る 2917 24° る 22'32	4.49365 AU	direct evening set	7812 Jul 01 15:07	25° © 05'57	
direct	7806 Sep 12 08:30	24 82232 19° る 27'33	4.49303 AU	evening set	/812 Jul 01 13.0/	23 30337	
direct	7806 Dec 14 04:38	19 © 2733		conjunction	7812 Jul 15 01:16	28° © 21'55	-0°33'34
evening set	7807 Jan 15 18:21	6°≈41'57		minimum elong	7812 Jul 15 01:17		0°33'41
max. Earth dist.	7807 Jan 26 21:51	9°≈06'01	6.47247 AU	max. Earth dist.	7812 Jul 16 13:19	28° © 43'53	5.91518 AU
max. Dartii dist.	7007 3411 20 21.31	7,4,0001	0.17217710	max. Earth dist.	7812 Jul 21 18:18	0°Ω	2.91210110
conjunction	7807 Jan 28 15:49	9° ≈ 28'42	0°26'20	morning rise	7812 Jul 28 13:56	1° Ω 39'12	
minimum elong	7807 Jan 28 15:50	9°≈28'42	0°26'27	morning rise	7812 Sep 27 04:37	15° Ω	
morning rise	7807 Feb 10 11:14	12° ≈ 14'33		retrograde	7812 Dec 07 14:38	22° Ω 24'59	
S	7807 Feb 23 10:30	15° ≈		min. Earth dist.	7813 Feb 03 16:55	17° Ω 32'22	3.94585 AU
retrograde	7807 Jun 11 05:39	29° ≈ 01'57		opposition	7813 Feb 05 00:41	17° Ω 21'34	-0°29'56
opposition	7807 Aug 11 05:07	24° ≈ 09'15	0°21'07	**	7813 Feb 23 04:26	15°R Ω	
min. Earth dist.	7807 Aug 12 16:02	23° ≈ 58′06	4.43198 AU	direct	7813 Apr 03 23:02	12° Ω 25'58	
direct	7807 Oct 12 20:19	19° ≈ 08'14			7813 May 13 11:26	15° Ω	
	7808 Jan 14 08:03	0° \			7813 Jul 30 08:12	0° m	
evening set	7808 Feb 15 04:36	6°) 43′00		evening set	7813 Aug 08 15:20	2°Mp11'14	
max. Earth dist.	7808 Feb 25 17:52	9°) 02′43	6.37320 AU				
				conjunction	7813 Aug 22 06:44	5° ™ 25'38	-0°04'49
conjunction	7808 Feb 27 23:28	9° ∺ 32′25	0°01'12	minimum elong	7813 Aug 22 06:44	5°M25'38	0°04'52
minimum elong	7808 Feb 27 23:29	9° ∺ 32'26	0°01'14	behind sun begin	7813 Aug 21 22:33	5° ™ 20'47	
behind sun begin	7808 Feb 27 15:30	9° ∺ 28′02		behind sun end	7813 Aug 22 14:54	5° Mp 30′28	
behind sun end	7808 Feb 28 07:27	9° ∺ 36'49		max. Earth dist.	7813 Aug 24 17:09	6° Mp 00′21	5.99941 AU
morning rise	7808 Mar 11 16:39	12° \ 21'19		morning rise	7813 Sep 04 23:57	8° Mp 40'43	
desc. node	7808 Mar 16 00:40	13°¥ 18'28		asc. node	7813 Oct 22 13:16	19° Mp 11'03	
retrograde	7808 Jul 12 11:04	29° ¥ 50'53	0017150	retrograde	7814 Jan 12 17:02	28° Mp 35'02	4.07007 ATT
opposition min. Earth dist.	7808 Sep 11 07:51	24° \ 58'06 24° \ 45'24		min. Earth dist.	7814 Mar 11 16:02 7814 Mar 13 06:53	23° Mp 43'48	4.07087 AU 0°16'10
	7808 Sep 12 23:29 7808 Nov 12 05:41	19° H 58'38	4.30030 AU	opposition		23° Mp 30'36	0 10 10
direct	7809 Feb 07 17:25	19 π 3838		direct	7814 May 10 20:54 7814 Aug 11 02:05	18° M 32'32 0° <u>₽</u>	
evening set	7809 Mar 17 17:57	8° Υ 12'39		evening set	7814 Sep 14 11:17	0 = 7° ჲ 33'39	
max. Earth dist.	7809 Mar 17 17:37 7809 Mar 28 07:00	10° Υ 37'22	6.21921 AU	oronnig set	,оттоор 17 11.1/	, —33 39	
Zurur dist.	. 555 1.141 25 07.00	10 13/22	3.21,21,110	conjunction	7814 Sep 28 02:54	10° ≏ 41'02	0°24'47
conjunction	7809 Mar 30 12:07	11° Y 07'52	-0°25'21	minimum elong	7814 Sep 28 02:54 7814 Sep 28 02:52	10° ⊆ 41'02	
minimum elong	7809 Mar 30 12:06	11° Υ 07'51	0°25'22	max. Earth dist.	7814 Sep 30 10:40	11° ⊆ 12'59	6.15281 AU
morning rise	7809 Apr 12 06:02	14° Υ 03'13		morning rise	7814 Oct 11 19:04	13° Ω 48'19	
5 -	7809 Jul 05 06:20	0°8		2	7815 Jan 06 03:16	0°M	
retrograde	7809 Aug 16 06:09	2° 8 39'41		retrograde	7815 Feb 15 02:43	2°M28'35	
-	7809 Sep 27 16:40	30° Ŗ ♈		J	7815 Mar 26 22:17	30° ŖΩ	
opposition	7809 Oct 15 17:30	27° Ƴ 45'27	-0°54'20	min. Earth dist.	7815 Apr 14 18:14		4.23658 AU
					•		

opposition	7815 Apr 16 00:58	27° £ 25'42	0°53'26	retrograde	7820 Jul 17 05:55	4° Υ '30'02	
direct	7815 Apr 10 00:38 7815 Jun 14 21:07	27 ≅ 25 42 22° £ 25'27	0 33 20	retrograde	7820 Sep 13 01:41	4 1 30 02 30° ₹	
direct	7815 Aug 28 03:20	0°M		opposition	7820 Sep 15 01:41 7820 Sep 16 01:07	29°) 37'07	-0°23'35
evening set	7815 Oct 19 04:34	10°M37'48		min. Earth dist.	7820 Sep 17 16:02	29° \ 24'37	
evening sec	7013 000 17 01.51	10 11057 10		direct	7820 Nov 16 19:26	24°) 37'57	1.27000710
conjunction	7815 Nov 01 16:36	13°M36'30	0°44'34	4.1.001	7821 Jan 17 08:57	0°Υ	
minimum elong	7815 Nov 01 16:35	13°M36'29	0°44'39	evening set	7821 Mar 22 08:18	12° Υ 58'16	
max. Earth dist.	7815 Nov 03 05:30	13°M56'54	6.31703 AU	max. Earth dist.	7821 Apr 02 00:56	15° Y 25'42	6.19746 AU
	7815 Nov 07 23:48	15° M			,		
morning rise	7815 Nov 15 03:25	16°M34'23		conjunction	7821 Apr 04 02:47	15° Ƴ 54'27	-0°28'45
. <i>8</i>	7816 Jan 24 06:27	0° ⊼ ¹		minimum elong	7821 Apr 04 02:46	15° Y ′54′27	0°28'48
retrograde	7816 Mar 17 06:33	4° ₹ 07'44		morning rise	7821 Apr 16 20:52	18° Ƴ 50'49	
	7816 May 10 00:53	30°RM		Č	7821 Jun 08 09:56	0°8	
opposition	7816 May 16 14:48	29°M08'08	1°11'41	retrograde	7821 Aug 21 08:03	7° 8 36'56	
min. Earth dist.	7816 May 15 23:29	29°M13'11	4.38619 AU	opposition	7821 Oct 20 18:38	2° 8 42'25	-0°58'26
direct	7816 Jul 16 17:34	24°ML06'41		min. Earth dist.	7821 Oct 22 00:37	2° 8 32'41	4.11430 AU
	7816 Sep 20 13:53	0°∡7			7821 Nov 11 20:26	30° ₹ Υ	
evening set	7816 Nov 19 18:13	11° ∡ ′41′05		direct	7821 Dec 20 05:41	27° Y 45'33	
					7822 Jan 27 03:27	0°8	
conjunction	7816 Dec 03 00:35	14° ∡ ³32'32	0°50'17		7822 Apr 16 23:40	15° 8	
minimum elong	7816 Dec 03 00:35	14° ∡ ³32'32	0°50'24	evening set	7822 Apr 25 03:00	16° 8 54'56	
max. Earth dist.	7816 Dec 03 07:05	14° ∡ °36′02	6.44099 AU	max. Earth dist.	7822 May 06 17:38	19° 8 40'53	6.03828 AU
morning rise	7816 Dec 16 05:08	17° ∡ ¹22'55					
	7817 Feb 21 04:13	ರ°ರ		conjunction	7822 May 08 00:10	19° 8 59'07	-0°46'38
retrograde	7817 Apr 16 06:04	4° る 12'54		minimum elong	7822 May 08 00:09	19° 8 59'07	0°46'43
	7817 Jun 10 07:40	30°₽ , ✓		morning rise	7822 May 20 22:41	23° 8 04'15	
opposition	7817 Jun 15 21:39	29° ∡ 16'43	1°09'21		7822 Jun 20 01:02	Π $^{\circ}0$	
min. Earth dist.	7817 Jun 16 02:54	29° ∡ 15′01	4.47728 AU	retrograde	7822 Sep 27 20:01	13° Ⅱ 03'35	
direct	7817 Aug 17 02:19	24° ∡ 14'51		opposition	7822 Nov 26 19:35	8° Ⅱ 06′18	-1°14'50
	7817 Oct 21 19:46	ರ°ರ		min. Earth dist.	7822 Nov 27 04:23	8° Ⅱ 03′23	3.97506 AU
evening set	7817 Dec 20 17:32	11° る 29'42		direct	7823 Jan 24 20:46	3° Ⅱ 11′26	
				evening set	7823 May 31 03:28	23° Ⅱ 01'16	
conjunction	7818 Jan 02 18:46	14° る 17'09	0°42'13				
minimum elong	7818 Jan 02 18:47	14° る 17'09	0°42'20	conjunction	7823 Jun 13 06:59	26° Ⅱ 13'12	-0°47'58
max. Earth dist.	7818 Jan 01 21:19	14° る 05'39	6.49282 AU	minimum elong	7823 Jun 13 07:00	26° Ⅱ 13'13	0°48'06
morning rise	7818 Jan 15 17:39	17° る 03'29		max. Earth dist.	7823 Jun 13 12:03	26° Ⅱ 16′18	5.93255 AU
	7818 Mar 26 17:33	0° ≈		morning rise	7823 Jun 26 12:41	29° Ⅱ 26'30	
retrograde	7818 May 15 23:21	3° ≈ 39′21			7823 Jun 28 20:06	0 \circ \odot	
	7818 Jul 06 02:46	30°Ŗる		retrograde	7823 Nov 05 15:07	20° © 12'47	
opposition	7818 Jul 15 21:28	28° る 45'38	0°49'07	opposition	7824 Jan 04 04:10	15° © 11'59	-1°02'05
min. Earth dist.	7818 Jul 16 20:14	28° る 38'20	4.48784 AU	min. Earth dist.	7824 Jan 03 13:04	15° © 17'04	3.91540 AU
direct	7818 Sep 16 13:16	23° る 44'00		direct	7824 Mar 02 06:18	10° © 17'38	
	7818 Nov 24 13:51	0° ≈			7824 Jul 05 10:59	0 $^{\circ}$ Ω	
evening set	7819 Jan 20 00:20	11° ≈ 00'44		evening set	7824 Jul 06 19:25	0° Ω 19'35	
max. Earth dist.	7819 Jan 31 02:26	13° ≈ 24′26	6.46111 AU				
				conjunction	7824 Jul 20 06:21	3° Ω 35′28	
conjunction	7819 Feb 01 21:25	13° ≈ 47'45		minimum elong	7824 Jul 20 06:23	3° £ 35′29	
minimum elong	7819 Feb 01 21:26	13° ≈ 47'45	0°23'11	max. Earth dist.	7824 Jul 21 21:53	3° Ω 59′29	5.92476 AU
	7819 Feb 07 10:39	15° ≈		morning rise	7824 Aug 02 19:56	6° Ω 52'40	
morning rise	7819 Feb 14 16:19	16° ≈ 33'53			7824 Sep 06 21:31	15° Ω	
_	7819 Apr 28 01:59	0° ∀		retrograde	7824 Dec 12 14:43	27° Ω 32'30	
retrograde	7819 Jun 15 16:07	3° ¥ 26′03		min. Earth dist.	7825 Feb 08 15:39	22° Ω 40'19	
	7819 Aug 04 03:32	30°R≈		opposition	7825 Feb 10 01:30	22° Ω 28'49	-0°23'47
opposition	7819 Aug 15 15:07	28°≈33'30	0°15'49	direct	7825 Apr 09 00:23	17° Ω 32'53	
min. Earth dist.	7819 Aug 17 03:18	28°≈21'58	4.41584 AU		7825 Jul 13 03:20	0° m/y	
direct	7819 Oct 17 04:41	23°≈32'46		evening set	7825 Aug 13 16:44	7° Mp 12'18	
	7819 Dec 25 14:25	0°){			5005 1 05 00 10	100 2 2 5152	0000122
desc. node	7820 Jan 23 20:55	5°) € 30'04		conjunction	7825 Aug 27 08:19	10° Mp 25'53	
evening set	7820 Feb 19 13:43	11°) 12′29	(25250 ATT	minimum elong	7825 Aug 27 08:18	10° Mp 25'52	0°00'35
max. Earth dist.	7820 Mar 01 01:01	13° ∺ 31'50	6.35358 AU	behind sun begin	7825 Aug 26 23:56	10° Mp 20'56	
	7020 15 02 00 11	1401/02/2:	0002145	behind sun end	7825 Aug 27 16:41	10° Mp 30'48	(01000 :**
conjunction	7820 Mar 03 08:14	14° ¥ 02'34		max. Earth dist.	7825 Aug 29 17:40	10° Mp 59'49	6.01869 AU
minimum elong	7820 Mar 03 08:13	14° ¥ 02'33	0*02.43	asc. node	7825 Sep 02 22:17	11° Mp 59'15	
behind sun begin	7820 Mar 03 00:16	13° ¥ 58′09		morning rise	7825 Sep 10 01:44	13° Mp 40'05	
behind sun end	7820 Mar 03 16:11	14° ¥ 06'58			7825 Dec 01 08:03	0∘ ⴀ	
morning rise	7820 Mar 16 01:31	16° ¥ 52'14 0° ⋎		retrograde	7826 Jan 17 08:26	3° Ω 24'49	
	7820 May 22 08:46	U I			7826 Mar 05 12:45	30°R, Mp	

1.	7027 4 14 04 40	220 0 44146			7042 F.1. 10. 04.56	220 - 1 (127	0017127
direct	7837 Apr 14 04:49	22° Ω 44'46		conjunction	7843 Feb 10 04:56	22°≈16'37	0°16'26
	7837 Jun 22 19:36	0° Mp		minimum elong	7843 Feb 10 04:56	22°≈16'38	0°16'30
asc. node	7837 Jul 13 21:12	4° Mp 12'22		morning rise	7843 Feb 22 23:06	25°≈03'09	
evening set	7837 Aug 18 20:46	12° m) 19'47			7843 Mar 18 08:13	0° \	
	7027 C 01 12 40	1.50 m. 2014.6	0002152	retrograde	7843 Jun 24 08:49	12°) €03'17	000511.4
conjunction	7837 Sep 01 12:49	15° Tp 32'46	0°03'53	opposition	7843 Aug 24 07:42	7°) 10'41	0°05'14
minimum elong	7837 Sep 01 12:49	15° Tp 32'46	0°03'51	min. Earth dist.	7843 Aug 25 22:06	6° ¥ 58′26	4.38858 AU
behind sun begin	7837 Sep 01 04:32	15° Tp 27'54		desc. node	7843 Oct 15 23:32	2° ¥ 18'56	
behind sun end	7837 Sep 01 21:07	15°Mp37'37		direct	7843 Oct 25 18:46	2° ₩ 10'12	
max. Earth dist.	7837 Sep 04 00:21	16° Mp 07′50	6.03564 AU	evening set	7844 Feb 28 02:25	19° ¥ 57'43	
morning rise	7837 Sep 15 06:13	18° Mp 46′10		max. Earth dist.	7844 Mar 09 12:34	22° ∺ 17'32	6.31867 AU
	7837 Nov 06 02:17	0∘ ⊽					
retrograde	7838 Jan 22 03:13	8° ≏ 21'56		conjunction	7844 Mar 11 20:36	22° ∺ 48'58	-0°10'08
min. Earth dist.	7838 Mar 21 05:25	3° ჲ 30'21	4.11202 AU	minimum elong	7844 Mar 11 20:36	22°) 48′58	0°10'07
opposition	7838 Mar 22 18:33	3° ≏ 17'46	0°27'54	behind sun begin	7844 Mar 11 14:10	22°) 45′23	
	7838 Apr 18 12:10	30°R, Mp		behind sun end	7844 Mar 12 03:01	22° 米 52'33	
direct	7838 May 20 15:30	28° m 19'05		morning rise	7844 Mar 24 13:45	25° ∺ 39'58	
	7838 Jun 22 01:30	0∘ ⊽			7844 Apr 13 08:02	0 ° Υ	
evening set	7838 Sep 24 05:10	17° ≏ 07'47		retrograde	7844 Jul 26 11:33	13° Y 33'01	
				opposition	7844 Sep 25 06:01	8° Ƴ 39'42	-0°34'02
conjunction	7838 Oct 07 20:09	20° ≙ 13'01	0°31'28	min. Earth dist.	7844 Sep 26 19:54	8° Y 27'31	4.23808 AU
minimum elong	7838 Oct 07 20:08	20° ₽ 13'00	0°31'30	direct	7844 Nov 25 17:04	3° Ƴ 41′00	
max. Earth dist.	7838 Oct 09 23:47	20° ≏ 42'17	6.19548 AU	evening set	7845 Mar 31 07:23	22° Y 13'26	
morning rise	7838 Oct 21 11:18	23° ₽ 17'55		max. Earth dist.	7845 Apr 11 03:18	24° Y 44'14	6.15373 AU
C	7838 Nov 21 08:06	0°M			•		
retrograde	7839 Feb 23 21:02	11° M 39'44		conjunction	7845 Apr 13 02:15	25° Y 11'35	-0°34'47
opposition	7839 Apr 24 22:08	6° ™ 37'42	1°00'32	minimum elong	7845 Apr 13 02:13	25° Y 11'34	
min. Earth dist.	7839 Apr 23 18:43	6°M46'52	4.27742 AU	morning rise	7845 Apr 25 21:08	28° Υ 10'07	
direct	7839 Jun 24 02:11	1°M37'05			7845 May 03 19:54	0°8	
	7839 Oct 06 15:19	15° ™			7845 Jul 23 18:50	15° 8	
evening set	7839 Oct 28 09:07	19°M38'54		retrograde	7845 Aug 31 07:59	17° 8 16'24	
evening set	7037 001 20 07.07	17 1103034		retrograde	7845 Oct 09 02:42	15°RB	
conjunction	7839 Nov 10 19:46	22°M35'33	0°47'34	opposition	7845 Oct 30 14:52	12° 8 21'15	-1°05'16
minimum elong	7839 Nov 10 19:46	22°M35'33	0°47'41	min. Earth dist.	7845 Oct 31 17:28		
max. Earth dist.	7839 Nov 10 19:40 7839 Nov 12 01:21	22°M51'47	6.35335 AU	direct	7845 Dec 29 17:21	7° 8 24'53	4.07083 AU
		25°M31'16	0.55555 AU	direct	7846 Mar 11 23:27	15° 8	
morning rise	7839 Nov 24 04:55	25°11631°10				_	
	7839 Dec 15 05:16			evening set	7846 May 04 16:48	26° 8 47'41	
retrograde	7840 Mar 25 15:56	12° √ 51'04	1012100		E04634 15 15 00	2001/2017	0040150
opposition	7840 May 25 02:21	7° √ 52'28	1°13'00	conjunction	7846 May 17 15:28	29° 8 54'17	
min. Earth dist.	7840 May 24 16:09		4.41597 AU	minimum elong	7846 May 17 15:28	29° 8 54'17	
direct	7840 Jul 25 13:19	2° ₹ 50'53		max. Earth dist.	7846 May 16 16:09	29° 8 40'15	5.99904 AU
evening set	7840 Nov 28 11:24	20° ∡ 18′26			7846 May 18 00:58	0°II	
				morning rise	7846 May 30 15:46	3° I I02'00	
conjunction	7840 Dec 11 16:16	23° ₹ 08'28	0°49'19	retrograde	7846 Oct 08 09:14	23° Ⅱ 19'42	
minimum elong	7840 Dec 11 16:17	23° ≯ 08′28	0°49'26	opposition	7846 Dec 07 04:49	18° Ⅱ 21'34	
max. Earth dist.	7840 Dec 11 15:26	23° ∡ *08′01	6.46237 AU	min. Earth dist.	7846 Dec 07 07:29	18° Ⅱ 20'41	3.94424 AU
morning rise	7840 Dec 24 19:12	25° ₹ 57'25		direct	7847 Feb 03 20:40	13° Ⅱ 27′03	
	7841 Jan 13 02:05	0°る			7847 May 27 01:08	0ంత	
retrograde	7841 Apr 24 10:58	12° る 40'31		evening set	7847 Jun 10 08:09	3°€26'04	
opposition	7841 Jun 24 05:06	7° る 45'04	1°05'18				
min. Earth dist.	7841 Jun 24 14:57	7° る 41'53	4.48941 AU	conjunction	7847 Jun 23 13:46	6° © 39'58	-0°44'50
direct	7841 Aug 25 14:43	2° る 43'12		minimum elong	7847 Jun 23 13:47	6° ॐ 39'58	0°44'58
evening set	7841 Dec 29 03:41	19° る 55'49		max. Earth dist.	7847 Jun 24 03:17	6° ∽ 48'13	5.91322 AU
max. Earth dist.	7842 Jan 10 00:44	22° る 28'14	6.49489 AU	morning rise	7847 Jul 06 21:57	9° © 55'18	
					7847 Oct 25 00:01	$0^{\circ}\Omega$	
conjunction	7842 Jan 11 03:40	22° る 42'41	0°37'50	retrograde	7847 Nov 16 06:13	0° Ω 48'43	
minimum elong	7842 Jan 11 03:41	22° る 42'41	0°37'57		7847 Dec 08 10:12	30° ₹ 🥯	
morning rise	7842 Jan 24 01:11	25° る 28'27		opposition	7848 Jan 14 17:22	25°5947'02	-0°53'30
	7842 Feb 14 17:48	0° ≈		min. Earth dist.	7848 Jan 13 20:09	25°954'12	3.91001 AU
retrograde	7842 May 24 06:50	12° ≈ 04'42		direct	7848 Mar 12 15:45	20°952'25	
opposition	7842 Jul 24 06:37	7° ≈ 11'21	0°40'57		7848 May 30 03:27	$0^{\circ}\Omega$	
min. Earth dist.	7842 Jul 25 09:00	7° ≈ 02'55	4.47974 AU	evening set	7848 Jul 17 08:12	10° Ω 54'42	
direct	7842 Sep 25 00:02	2° ≈ 09'52		-			
	7843 Jan 07 02:18	15° ≈		conjunction	7848 Jul 30 21:07	14° Ω 11'04	-0°22'36
evening set	7843 Jan 28 08:50	19° ≈ 29'20		minimum elong	7848 Jul 30 21:09	14° Ω 11'05	
max. Earth dist.	7843 Feb 08 05:30	21° ≈ 50'47	6.44311 AU	max. Earth dist.	7848 Aug 01 20:45		5.93390 AU
			-		7848 Aug 03 05:58	15° Ω	-
					5		

		0					
morning rise	7848 Aug 13 12:21	17° Ω 28'34			7854 Jun 27 14:13	15° R ≈	
	7848 Oct 09 06:33	0° m p		opposition	7854 Jul 28 13:09	11° ≈ 28'42	0°36'25
retrograde	7848 Dec 22 21:44	8° Mp 00'16		min. Earth dist.	7854 Jul 29 18:40	11° ≈ 19'16	4.47270 AU
min. Earth dist.	7849 Feb 18 19:14	3° ™ 08'27	3.98349 AU	direct	7854 Sep 29 07:49	6° ≈ 27'17	
opposition	7849 Feb 20 07:27	2° Mp 56'08	-0°10'52		7854 Dec 20 04:56	15° ≈	
	7849 Mar 15 11:57	30° R Ω		evening set	7855 Feb 01 14:47	23° ≈ 49'12	
direct	7849 Apr 19 09:07	27° Ω 59'34		max. Earth dist.	7855 Feb 12 08:59	26°≈09'45	6.43015 AU
asc. node	7849 May 23 20:42	29° Ω 57'02					
	7849 May 24 07:31	0° m)		conjunction	7855 Feb 14 10:36	26° ≈ 36'51	0°12'51
evening set	7849 Aug 24 02:49	17° m) 30'40		minimum elong	7855 Feb 14 10:37	26° ≈ 36'51	0°12'57
e vennig set	7019 Hug 21 02.19	17 19250 10		behind sun begin	7855 Feb 14 05:42	26°≈34'11	0 1237
agniumation	7849 Sep 06 18:56	200 m 42156	0°08'11	behind sun end	7855 Feb 14 15:31	26°≈39'32	
conjunction	•	20° m/42'56					
minimum elong	7849 Sep 06 18:56	20° m 42'56	0°08'10	morning rise	7855 Feb 27 04:26	29° ≈ 23'46	
behind sun begin	7849 Sep 06 11:32	20° Mp 38'37			7855 Mar 01 23:14	0° ∀	
behind sun end	7849 Sep 07 02:20	20° Mp 47'15		retrograde	7855 Jun 28 19:23	16°) 29′34	
max. Earth dist.	7849 Sep 09 06:49	21° Mp 18'03	6.05196 AU	desc. node	7855 Aug 25 17:20	12°) €00′28	
morning rise	7849 Sep 20 12:34	23° m 55'36		opposition	7855 Aug 28 19:04	11° ∺ 36′57	-0°00'18
	7849 Oct 17 09:31	0∘ ⊽		min. Earth dist.	7855 Aug 30 09:30	11°) 24'40	4.37043 AU
retrograde	7850 Jan 26 21:44	13° ≏ 22'20		direct	7855 Oct 30 02:52	6°) 36'40	
min. Earth dist.	7850 Mar 26 01:45	8° ≏ 30'53	4.13245 AU	evening set	7856 Mar 03 11:59	24°) €29'43	
opposition	7850 Mar 27 15:06	8° ₽ 18'13	0°33'33	max. Earth dist.	7856 Mar 13 22:47	26° ¥ 50'36	6.29662 AU
		3° ⊆ 19'11	0 33 33	max. Lartii dist.	7030 Wiai 13 22.47	20 / 30 30	0.27002 AC
direct	7850 May 25 15:34				7056 M 16 06 05	270 140	0012154
evening set	7850 Sep 29 05:10	22° ჲ 01'29		conjunction	7856 Mar 16 06:05	27°) €21'48	
				minimum elong	7856 Mar 16 06:04	27°) €21'47	0°13'53
conjunction	7850 Oct 12 19:47	25° ≏ 05'31	0°34'34	behind sun begin	7856 Mar 16 01:50	27° ∺ 19'24	
minimum elong	7850 Oct 12 19:45	25° ≏ 05'31	0°34'37	behind sun end	7856 Mar 16 10:19	27°) €24'10	
max. Earth dist.	7850 Oct 14 22:19	25° ≏ 34'02	6.21818 AU		7856 Mar 27 22:50	0 ° Υ	
morning rise	7850 Oct 26 10:05	28° ♀ 09'05		morning rise	7856 Mar 28 23:14	0° Ƴ 13'42	
-	7850 Nov 03 17:49	0°M		retrograde	7856 Jul 31 09:11	18° Ƴ 16′22	
	7851 Jan 30 03:00	15° ™		opposition	7856 Sep 30 01:22	13° Y ′22'56	-0°39'14
retrograde	7851 Feb 28 09:27	16°M20'58		min. Earth dist.	7856 Oct 01 15:36		4.21343 AU
retrograde	7851 Mar 29 10:03	15°RM		direct	7856 Nov 30 09:18	8° Υ 24'31	4.21545 710
i. East dist			4 20000 ATT			27° Υ 04'31	
min. Earth dist.	7851 Apr 28 09:48	11°M27'47	4.30000 AU	evening set	7857 Apr 04 23:55		< 10055 LYX
opposition	7851 Apr 29 11:08	11°M19'20	1°03'33	max. Earth dist.	7857 Apr 15 21:16	29° Y 37'03	6.12857 AU
direct	7851 Jun 28 20:33	6°M18′30					
	7851 Sep 17 22:36	15°M		conjunction	7857 Apr 17 19:05	0° 8 03'52	
evening set	7851 Nov 02 01:19	24° ™ 14'06		minimum elong	7857 Apr 17 19:04	0° 8 03'52	0°37'39
					7857 Apr 17 12:28	0° 8	
conjunction	7851 Nov 15 11:04	27°M09'34	0°48'40	morning rise	7857 Apr 30 14:38	3° 8 03'45	
minimum elong	7851 Nov 15 11:03	27° M 09'34	0°48'46	C	7857 Jun 25 08:59	15° 8	
max. Earth dist.	7851 Nov 16 12:27	27° M 23'26	6.37368 AU	retrograde	7857 Sep 05 12:58	22° 8 21'27	
morning rise	7851 Nov 28 19:25	0° 1 04'06		opposition	7857 Nov 04 18:48	17° 8 25'57	-1°08'11
morning rise	7851 Nov 28 11:51	0° ≯ 7		min. Earth dist.	7857 Nov 05 17:50	17° 8 18'26	4.04745 AU
ratra ara da		17° ∡ 16'32		mm. Earm dist.	7857 Nov 24 06:03	15°RB	4.04743 AU
retrograde	7852 Mar 29 21:33		1012101	1: 4			
opposition	7852 May 29 09:51	12° ∡ 18′20	1°13'01	direct	7858 Jan 03 14:53	12° 8 29'54	
min. Earth dist.	7852 May 29 02:15	12° ∡ 20'49	4.43252 AU		7858 Feb 12 09:20	15° 8	
direct	7852 Jul 30 00:47	7° ∡ 16'38			7858 May 01 08:31	Π $^{\circ}0$	
evening set	7852 Dec 02 20:51	24° ∡ ⁴40'11		evening set	7858 May 09 17:56	2° Ⅱ 00'01	
conjunction	7852 Dec 16 01:03	27° ∡ ¹29'29	0°48'23	conjunction	7858 May 22 17:29	5° Ⅱ 07'54	-0°49'29
minimum elong	7852 Dec 16 01:04	27° ∡ ¹29'30	0°48'32	minimum elong	7858 May 22 17:29	5° Ⅱ 07'53	0°49'36
max. Earth dist.	7852 Dec 15 21:35	27° ∡ °27'38	6.47384 AU	max. Earth dist.	7858 May 21 23:26	4° Ⅱ 56'58	5.97977 AU
	7852 Dec 27 17:51	გ∘ე		morning rise	7858 Jun 04 18:45	8° Ⅱ 16'57	
morning rise	7852 Dec 29 02:56	0° る 17'38		retrograde	7858 Oct 13 21:46	28° Ⅱ 43'26	
•	7853 Apr 28 14:07	16°る57'23		opposition	7858 Dec 12 15:20	23° I I44'49	1012!14
retrograde	-		1002142				
opposition	7853 Jun 28 10:15	12°る02'21	1°02'43	min. Earth dist.	7858 Dec 12 14:56		3.93129 AU
min. Earth dist.	7853 Jun 28 22:14	11° る 58'29	4.49508 AU	direct	7859 Feb 09 04:20	18° Ⅱ 50′26	
direct	7853 Aug 29 21:56	7° る 00'33			7859 May 08 12:00	0ంత	
evening set	7854 Jan 02 09:49	24° る 12'15		evening set	7859 Jun 15 16:14	8° 9 52'47	
max. Earth dist.	7854 Jan 14 01:13	26° る 41'49	6.49420 AU				
				conjunction	7859 Jun 28 23:05	12° 5 07'29	-0°42'37
conjunction	7854 Jan 15 08:58	26° පි 58'51	0°35'18	minimum elong	7859 Jun 28 23:06	12° © 07'30	0°42'45
minimum elong	7854 Jan 15 08:59	26° පි 58'52	0°35'24	max. Earth dist.	7859 Jun 29 19:13	12°519'49	5.90819 AU
morning rise	7854 Jan 28 06:00	29° る 44'27		morning rise	7859 Jul 12 08:24	15°523'37	
	7854 Jan 29 11:11	2)°≈			7859 Sep 17 12:50	0°Ω	
		0 ∞ 15°≈		ratrograda	7859 Nov 21 18:15	6° Ω 17'48	
	7854 Apr 28 13:01			retrograde			2.01201 444
retrograde	7854 May 28 13:49	16° ≈ 21'49		min. Earth dist.	7860 Jan 19 03:27	1° Ω 23'58	3.91391 AU

opposition	7860 Jan 20 03:56	1° Ω 15'41	-0°48'20		7866 Jan 14 00:18	0° ≈	
оррозиюн	7860 Jan 29 14:17	30°Rூ	0 4020	max. Earth dist.	7866 Jan 18 02:58	0°≈53'02	6.48874 AU
direct	7860 Mar 18 00:53	26°\$20'56		max. Earth dist.	7000 3411 10 02.50	0 70 83 02	0.10071710
	7860 May 04 11:44	0° U		conjunction	7866 Jan 19 12:59	1° ≈ 11'19	0°32'37
	7860 Jul 17 03:44	15°Ω		minimum elong	7866 Jan 19 13:00	1°≈11'20	0°32'43
evening set	7860 Jul 22 18:21	16° Ω 20′29		morning rise	7866 Feb 01 09:21	3°≈56'56	
C				C	7866 Mar 30 08:39	15° ≈	
conjunction	7860 Aug 05 07:51	19° Ω 36'35	-0°18'26	retrograde	7866 Jun 01 19:12	20° ≈ 37'02	
minimum elong	7860 Aug 05 07:52	19° Ω 36'35	0°18'31	opposition	7866 Aug 01 19:24	15° ≈ 44'06	0°31'45
max. Earth dist.	7860 Aug 07 10:00	20° Ω 06'49	5.94616 AU	min. Earth dist.	7866 Aug 03 02:23	15° ≈ 34'12	4.46072 AU
morning rise	7860 Aug 18 23:54	22° Ω 53'45			7866 Aug 07 14:00	15°R≈	
	7860 Sep 18 16:50	0° m)		direct	7866 Oct 03 12:38	10° ≈ 42'50	
retrograde	7860 Dec 27 23:17	13° m 17'35			7866 Nov 28 09:07	15° ≈	
min. Earth dist.	7861 Feb 23 21:10	8° Mp 26'10	4.00266 AU	evening set	7867 Feb 05 20:50	28° ≈ 08'44	
opposition	7861 Feb 25 11:13	8° Mp 13'12	-0°04'12		7867 Feb 14 08:30	0° ∀	
asc. node	7861 Apr 02 08:14	4° ™ 07'00		max. Earth dist.	7867 Feb 16 12:08	0°) 28′20	6.41243 AU
direct	7861 Apr 24 15:10	3°Mp 16'15					
evening set	7861 Aug 29 08:20	22°Mp40'11		conjunction	7867 Feb 18 16:11	0°) 56′54	0°09'15
				minimum elong	7867 Feb 18 16:12	0°) 56′54	0°09'19
conjunction	7861 Sep 12 00:33	25° m 51'19	0°12'24	behind sun begin	7867 Feb 18 09:29	0° ¥ 53'15	
minimum elong	7861 Sep 12 00:33	25° m 51'19	0°12'24	behind sun end	7867 Feb 18 22:54	1°) 00′34	
behind sun begin	7861 Sep 11 19:10	25° m 48'12		morning rise	7867 Mar 03 09:57	3°) (44′27	
behind sun end	7861 Sep 12 05:55	25° m 54'26		retrograde	7867 Jul 03 10:13	20° ¥ 57'37	
max. Earth dist.	7861 Sep 14 12:53	26° Mp 26'30	6.07621 AU	desc. node	7867 Jul 05 17:51	20° ¥ 57'07	
morning rise	7861 Sep 25 17:49	29° m 02'40		opposition	7867 Sep 02 07:51	16° ∺ 05'01	
	7861 Sep 29 21:25	0∘ ⊽		min. Earth dist.	7867 Sep 03 23:50	15° ¥ 52'14	4.34796 AU
retrograde	7862 Jan 31 15:49	18° ≙ 17'38		direct	7867 Nov 03 13:43	11° ∺ 04'57	
min. Earth dist.	7862 Mar 30 21:54	13° Ω 25'46	4.15898 AU	evening set	7868 Mar 07 23:06	29°) €04'56	
opposition	7862 Apr 01 09:35	13° ≙ 13'43	0°38'51		7868 Mar 12 00:50	0° Υ	
direct	7862 May 30 15:50	8° £ 14'19		max. Earth dist.	7868 Mar 18 10:10	1°'Y'26'47	6.27121 AU
evening set	7862 Oct 04 02:14	26° ≏ 48'21			7 0.60 1 6 17 2 0	100050104	001.512.6
. ,.	70/2 0 + 17 1/ 14	200 0 50150	0027121	conjunction	7868 Mar 20 17:20	1° Υ 58'04	
conjunction	7862 Oct 17 16:14	29° £ 50'58	0°37'21	minimum elong	7868 Mar 20 17:19	1° Υ 58'03 4° Υ 51'05	0°17'36
minimum elong	7862 Oct 17 16:13	29° £ 50'57	0°37'25	morning rise	7868 Apr 02 10:40	4° γ 51 05 23° Υ 04'35	
max. Earth dist.	7862 Oct 18 08:21	0°M	C 24457 ATT	retrograde	7868 Aug 05 07:35	23° γ 04'35 18° γ 10'57	0944114
	7862 Oct 19 16:15	0°M17'54 2°M53'03	6.24457 AU	opposition min. Earth dist.	7868 Oct 04 22:56 7868 Oct 06 10:48	18 1 10 37 17° Υ 59'23	4.18708 AU
morning rise	7862 Oct 31 05:49 7862 Dec 30 12:22	2 11633 03 15°M		direct	7868 Dec 05 00:45	17 γ 39 23 13° Υ 12'56	4.18/08 AU
ratragrada	7862 Dec 30 12.22 7863 Mar 04 16:35	20°M54'18		direct	7869 Apr 01 01:52	0° 8	
retrograde opposition	7863 May 03 21:05	15°M53'04	1°06'04	evening set	7869 Apr 09 18:52	2° 8 01'05	
min. Earth dist.	7863 May 02 21:23	16°ML00'57	4.32413 AU	max. Earth dist.	7869 Apr 20 20:24	4° 8 36'56	6.10356 AU
mm. Earth dist.	7863 May 10 13:30	15°RM	4.52415710	max. Earth dist.	7007 Apr 20 20.24	4 03030	0.10330710
direct	7863 Jul 03 10:26	10°M52'00		conjunction	7869 Apr 22 14:27	5° 8 01'42	-0°40'11
	7863 Aug 26 04:25	15°M		minimum elong	7869 Apr 22 14:26	5° 8 01'41	0°40'16
evening set	7863 Nov 06 14:03	28°M41'11		morning rise	7869 May 05 10:37	8° 8 02'57	
8	7863 Nov 12 15:28	0° ∡ ¹		. 8	7869 Jun 05 02:00	15° 8	
				retrograde	7869 Sep 10 22:35	27° 8 32'04	
conjunction	7863 Nov 19 23:00	1° ∡ ³35'30	0°49'26	opposition	7869 Nov 10 01:33	22° 8 36'12	-1°10'36
minimum elong	7863 Nov 19 22:59	1° ∡ ³35'30	0°49'33	min. Earth dist.	7869 Nov 10 21:58	22° 8 29'30	4.02610 AU
max. Earth dist.	7863 Nov 20 20:03	1° ∡ ¹46'58	6.39376 AU	direct	7870 Jan 08 17:15	17° 8 40'30	
morning rise	7863 Dec 03 06:19	4° ∡ ¹28'50			7870 Apr 13 13:07	$\Pi^{\circ}0$	
retrograde	7864 Apr 03 01:36	21° ∡ ³34′23		evening set	7870 May 14 21:03	7° Ⅱ 16'49	
opposition	7864 Jun 02 14:37	16° ∡ ³36'43	1°12'38				
min. Earth dist.	7864 Jun 02 10:28	16° ∡ ³38′04	4.44723 AU	conjunction	7870 May 27 21:35	10° Ⅱ 25'52	-0°49'42
direct	7864 Aug 03 09:52	11° ∡ ³34'56		minimum elong	7870 May 27 21:35	10° Ⅱ 25'52	0°49'48
evening set	7864 Dec 07 03:47	28° ∡ 55'14		max. Earth dist.	7870 May 27 09:29		5.96425 AU
	7864 Dec 12 05:10	0°₹		morning rise	7870 Jun 09 23:52	13° Ⅱ 36′07	
					7870 Aug 28 03:40	0 \circ \odot	
conjunction	7864 Dec 20 07:09	1° る 43'55	0°47'14	retrograde	7870 Oct 19 10:38	4° 5 09'18	
minimum elong	7864 Dec 20 07:10	1° ろ 43'56	0°47'23		7870 Dec 11 20:42	30°RⅡ	
max. Earth dist.	7864 Dec 19 21:58	1° ප 39'00	6.48204 AU	opposition	7870 Dec 18 02:38	29° Ⅱ 10′13	
morning rise	7865 Jan 02 08:24	4° ප 31'30		min. Earth dist.	7870 Dec 17 22:05		3.92366 AU
retrograde	7865 May 02 17:16	21° ろ 09'07		direct	7871 Feb 14 11:42	24° Ⅱ 15'59	
opposition	7865 Jul 02 13:44	16° る 14'24	0°59'52	_	7871 Apr 16 03:27	0°50	
min. Earth dist.	7865 Jul 03 04:50	16° る 09'32	4.49650 AU	evening set	7871 Jun 21 00:59	14° © 19'31	
direct	7865 Sep 03 02:59	11° ට 12'32					0045:
evening set	7866 Jan 06 14:11	28° る 24'41		conjunction	7871 Jul 04 08:41	17° © 34'39	-0°40'03

7877 Jul 06 18:30

7877 Jul 07 12:31

opposition min. Earth dist. 20°る30'02

20°る24'15

0°56'42

4.49469 AU

evening set

7883 Mar 07 14:41

7883 Jun 26 06:05

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19°936'36

conjunction	7883 Jul 09 14:52	22° © 51'56	0°37'13	max. Earth dist.	7888 Dec 28 02:38	10°る05'29	6.48758 AU
minimum elong	7883 Jul 09 14:53	22°951'57		morning rise	7889 Jan 10 18:46	10 30329 13° る 01'06	0.46/36 AU
max. Earth dist.	7883 Jul 10 20:57	22 \$3137 23°\$10'17	5.91451 AU	retrograde	7889 May 11 01:34	13 301 00 29° る 37'52	
morning rise	7883 Jul 23 02:09	25 \$510 17 26° \$508'38	3.91431 AU	opposition	7889 Jul 10 22:49	29 3 37 32 24° 3 43'48	0°53'15
morning rise		20 3 08 38		min. Earth dist.		24 343 46 24° る 37'32	
	7883 Aug 08 05:47 7883 Oct 28 08:23	0° δ ι 15° Ω			7889 Jul 11 18:19 7889 Sep 11 13:12	19° る 42'06	4.49070 AU
. 1				direct	1		
retrograde	7883 Dec 02 06:23	16° £ 57'04			7889 Dec 12 03:48	0° ≈	
: E 4 E 4	7884 Jan 06 01:05	15°R Ω	2 02510 ATT	evening set	7890 Jan 15 01:13	6°≈57'16	C 47104 ATT
min. Earth dist.	7884 Jan 29 11:59	12° Ω 03'53		max. Earth dist.	7890 Jan 26 07:38	9° ≈ 22'53	6.47194 AU
opposition	7884 Jan 30 16:49	11° £ 54'06	-0°3′/03		7000 Y 07 00 70	00 4400	000 (140
direct	7884 Mar 28 14:45	6° Ω 58'51		conjunction	7890 Jan 27 22:59	9°≈44'09	0°26'40
	7884 Jun 09 20:08	15° Ω		minimum elong	7890 Jan 27 23:00	9° ≈ 44'09	0°26'47
evening set	7884 Aug 02 06:17	26° Ω 48'48		morning rise	7890 Feb 09 18:29	12° ≈ 30′05	
					7890 Feb 21 12:18	15° ≈	
conjunction	7884 Aug 15 20:58	0° m ,03'48		retrograde	7890 Jun 10 12:40	29° ≈ 17′20	
minimum elong	7884 Aug 15 20:59	0° Mp 03'48	0°10'02	opposition	7890 Aug 10 11:48	24° ≈ 24'40	0°21'45
behind sun begin	7884 Aug 15 14:16	29° Ω 59'49		min. Earth dist.	7890 Aug 11 22:01	24°≈13'44	4.43396 AU
behind sun end	7884 Aug 16 03:41	0° Mp 07'48		direct	7890 Oct 12 02:58	19° ≈ 23'42	
	7884 Aug 15 14:34	O° m			7891 Jan 12 08:30	0°) €	
max. Earth dist.	7884 Aug 18 04:14	0° m ,36'49	5.97994 AU	evening set	7891 Feb 14 11:46	6° 升 57'48	
morning rise	7884 Aug 29 13:45	3° m 19'39		max. Earth dist.	7891 Feb 25 00:32	9° ₩ 17'10	6.37753 AU
asc. node	7884 Dec 22 12:14	23° m 01'57					
retrograde	7885 Jan 06 18:58	23° m 25'08		conjunction	7891 Feb 27 06:36	9° ∺ 47'06	0°01'44
min. Earth dist.	7885 Mar 05 17:40	18° m 33'48	4.04496 AU	minimum elong	7891 Feb 27 06:35	9°) 47′05	0°01'46
opposition	7885 Mar 07 08:06	18° m 20'44	0°08'38	behind sun begin	7891 Feb 26 22:37	9°) 42'42	
direct	7885 May 04 18:07	13° m 23'07		behind sun end	7891 Feb 27 14:34	9° 升 51′29	
	7885 Aug 28 04:38	0° ⊽		morning rise	7891 Mar 12 00:02	12°) 35′52	
evening set	7885 Sep 08 09:11	2° £ 32'52		desc. node	7891 Mar 24 03:53	15° 升 15′01	
-	•				7891 Jul 06 15:32	$0^{\circ}\mathbf{\Upsilon}$	
conjunction	7885 Sep 22 01:04	5° £ 41'44	0°20'16	retrograde	7891 Jul 12 16:43	0° Υ 03'27	
minimum elong	7885 Sep 22 01:03	5° £ 41'44	0°20'17	C	7891 Jul 18 17:18	30°R) €	
max. Earth dist.	7885 Sep 24 10:04	6° £ 14'37	6.12292 AU	opposition	7891 Sep 11 12:55	25°) 10′39	-0°17'06
morning rise	7885 Oct 05 17:46	8° ≏ 50'38		min. Earth dist.	7891 Sep 13 04:09	24°) €58'05	4.30704 AU
retrograde	7886 Feb 09 16:40	27° £ 44'32		direct	7891 Nov 12 11:47	20°) 11′06	
min. Earth dist.	7886 Apr 09 04:30	22° £ 52'14	4.20570 AU	unov	7892 Feb 07 00:14	0°Υ	
opposition	7886 Apr 10 13:01	22° £ 41'16	0°48'16	evening set	7892 Mar 16 23:31	8° Υ 23'03	
direct	7886 Jun 09 03:29	17° £ 41'22	0 10 10	max. Earth dist.	7892 Mar 27 13:55		6.22742 AU
direct	7886 Sep 15 10:10	0°M		max. Earth dist.	70)2 Wai 27 15.55	10 1 40 12	0.22742710
evening set	7886 Oct 13 12:18	6°ML02'30		conjunction	7892 Mar 29 17:49	11° Ƴ 17'57	-0°24'45
evening set	7000 Oct 15 12.10	0 11002 30		minimum elong	7892 Mar 29 17:48	11° Y 17'56	
conjunction	7886 Oct 27 01:13	9° M .02'48	0°42'05	morning rise	7892 Apr 11 11:30	14° Υ 12'54	0 24 40
minimum elong	7886 Oct 27 01:13	9°ML02'47	0°42'09	morning risc	7892 Jul 03 11:35	0° 8	
max. Earth dist.	7886 Oct 28 18:24	9°M25'42	6.28768 AU	retrograde	7892 Aug 15 07:13	2° 8 45'36	
morning rise	7886 Nov 09 13:10	12°M02'23	0.28708 AU	retrograde	7892 Sep 27 15:33	30°RΥ	
morning risc	7886 Nov 23 03:19	15°M		opposition	7892 Oct 14 19:38	27° Υ 51'27	0053126
retrograde	7887 Mar 13 05:20	29°M47'04		min. Earth dist.	7892 Oct 14 19:38 7892 Oct 16 04:17	27° Υ 40'53	4.14363 AU
opposition	7887 May 12 11:37	24°M46'53	1°09'55	direct	7892 Dec 14 12:38	27° 4033 22° $54'07$	4.14303 AU
min. Earth dist.	7887 May 11 17:04	24°M53'01	4.36061 AU	direct	7893 Feb 22 22:42	0° 8	
direct	7887 Jul 12 08:34	19°M45'37	4.30001 AU	evening set	7893 Apr 19 08:36	11° 8 54'51	
ancei	7887 Oct 10 09:07	19 IIC4337 0° ⊼ 1		max. Earth dist.	7893 Apr 30 17:25		6.06423 AU
avanina aat				max. Earth dist.	7893 Apr 30 17.23	14 030 24	0.00423 AU
evening set	7887 Nov 15 11:15	7° ⊀ 26′23		conjunction	7902 May 02 05:02	14° 8 57'34	0044120
	7007 N 20 10 40	100 71000	0050110		7893 May 02 05:03		
conjunction	7887 Nov 28 18:40	10° 🖈 19'02	0°50'10	minimum elong	7893 May 02 05:02	14° 8 57'33	0-44-33
minimum elong	7887 Nov 28 18:40	10° ∡ 19'02	0°50'18		7893 May 02 09:09	15° 8	
max. Earth dist.	7887 Nov 29 06:32	10° ∡ 25′28	6.42108 AU	morning rise	7893 May 15 02:35	18° 8 01'06	
morning rise	7887 Dec 12 00:23	13° ∡ 10'40			7893 Jul 09 03:16	0°II	
	7888 Apr 02 15:32	0°る		retrograde	7893 Sep 21 10:19	7° ∏ 48'25	1010
retrograde	7888 Apr 11 09:03	0°る07'12		opposition	7893 Nov 20 11:45	2° ∏ 51'41	
	7888 Apr 20 00:36	30°R. ✓		min. Earth dist.	7893 Nov 21 01:08		3.99483 AU
opposition	7888 Jun 10 22:59	25° ∡ 10′29	1°10'49		7893 Dec 13 17:13	30° ₹8	
min. Earth dist.	7888 Jun 11 00:37	25° ∡ 109'57	4.46420 AU	direct	7894 Jan 18 18:41	27° 8 56'30	
direct	7888 Aug 11 23:40	20° ∡ ′08'40			7894 Feb 23 09:35	0°II	
	7888 Nov 09 02:17	0°ಕ		evening set	7894 May 25 00:01	17° Ⅱ 41'07	
evening set	7888 Dec 15 16:50	7° る 26'14					
				conjunction	7894 Jun 07 02:18	20° ∏ 51'55	
conjunction	7888 Dec 28 18:58	10° ರ 14'14		minimum elong	7894 Jun 07 02:19	20° ∏ 51'55	
minimum elong	7888 Dec 28 18:59	10° る 14'15	0°44'20	max. Earth dist.	7894 Jun 07 00:30	20° ∏ 50'49	5.94410 AU

max. Earth dist.

7899 Dec 03 15:08

14°**₰**48'00 6.43610 AU

conjunction	7905 May 07 20:48	19° 8 45'21	-0°46'07	max. Earth dist.	7910 Nov 07 23:17	18°ML40'14	6.32927 AU
minimum elong	7905 May 07 20:47	19° 8 45'20	0°46'12	morning rise	7910 Nov 19 22:30	21°M18'04	0.32327110
max. Earth dist.	7905 May 06 13:05	19° 8 26'25	6.04266 AU		7911 Jan 01 01:36	0° ⊼ ¹	
morning rise	7905 May 20 18:57	22° 8 50'10		retrograde	7911 Mar 22 19:50	8° х 46'31	
Č	7905 Jun 20 23:38	0°II		opposition	7911 May 22 05:02	3° ∡ ¹47'14	1°12'10
retrograde	7905 Sep 27 15:11	12° Ⅱ 47'43		min. Earth dist.	7911 May 21 15:14	3° ∡ ′51'47	4.39754 AU
opposition	7905 Nov 26 13:19	7° Ⅱ 50'40	-1°14'29		7911 Jun 24 01:06	30°RM	
min. Earth dist.	7905 Nov 27 01:00	7° Ⅱ 46'49	3.97565 AU	direct	7911 Jul 22 11:19	28°M45'45	
direct	7906 Jan 24 16:02	2° Ⅱ 55'42			7911 Aug 20 05:43	0° ∡ ¹	
evening set	7906 May 30 23:23	22° Ⅱ 46′28		evening set	7911 Nov 25 10:04	16° ∡ 17′08	
conjunction	7906 Jun 13 02:37	25° Ⅱ 58'28	-0°48'03	conjunction	7911 Dec 08 15:51	19° ∡ °07'59	0°49'48
minimum elong	7906 Jun 13 02:38	25° Ⅱ 58'29	0°48'11	minimum elong	7911 Dec 08 15:51	19° ∡ °07'59	0°49'55
max. Earth dist.	7906 Jun 13 03:44	25° Ⅱ 59'09	5.92915 AU	max. Earth dist.	7911 Dec 08 20:25	19° ∡ 10′26	6.45064 AU
morning rise	7906 Jun 26 08:16	29° Ⅱ 11'53		morning rise	7911 Dec 21 19:48	21° ₹ 57'45	
	7906 Jun 29 15:49	0ංම			7912 Jan 30 10:33	0°ಕ	
retrograde	7906 Nov 05 10:20	20° © 00'01		retrograde	7912 Apr 20 16:17	8° る 44'26	
opposition	7907 Jan 03 23:34	14° © 59'28		opposition	7912 Jun 20 09:40	3° る 48'28	1°07'31
min. Earth dist.	7907 Jan 03 08:56		3.90832 AU	min. Earth dist.	7912 Jun 20 16:05	3° ප් 46'23	4.48474 AU
direct	7907 Mar 03 00:15	10° © 05'10			7912 Jul 23 23:48	30°₹ ⋌	
	7907 Jul 06 23:05	0°N		direct	7912 Aug 21 16:34	28° ∡ ¹46'36	
evening set	7907 Jul 07 16:57	0° Ω 10'48			7912 Sep 19 15:25	0°る	
. ,.	7007 X 1 21 02 44	20 027107	0020145	evening set	7912 Dec 25 06:02	15° る 59'27	C 407C0 ATT
conjunction	7907 Jul 21 03:44	3° Ω 27'07		max. Earth dist.	7913 Jan 06 08:12	18° る 34'25	6.49760 AU
minimum elong	7907 Jul 21 03:46	3° Ω 27'08		. ,.	7012 1 07 07 47	100746120	0040110
max. Earth dist.	7907 Jul 22 17:15	3° Ω 49'58	5.91485 AU	conjunction	7913 Jan 07 06:47	18° ろ 46'30	0°40'18
morning rise	7907 Aug 03 17:13	6° Ω 44'46		minimum elong	7913 Jan 07 06:48	18°る46'31 21°る32'26	0°40'26
ratra ara da	7907 Sep 08 06:51 7907 Dec 13 16:02	15° Ω 27° Ω 29'33		morning rise	7913 Jan 20 05:03 7913 Mar 03 08:21	21° ⊘ 32′20	
retrograde	7907 Dec 13 16:02 7908 Feb 09 16:35	$21^{\circ} 0.2933$ $22^{\circ} \Omega 37'11$	3.94933 AU	ratrograda		0 ≈ 8°≈07'02	
min. Earth dist.	7908 Feb	$22^{\circ}\Omega 25'57$		retrograde opposition	7913 May 20 09:20 7913 Jul 20 08:52	8 ≈0702 3°≈13'25	0°45'36
direct	7908 Apr 09 00:17	$17^{\circ} \Omega 30'08$	-0 24 34	min. Earth dist.	7913 Jul 20 08:32 7913 Jul 21 08:39	3°≈05'48	4.48959 AU
uncet	7908 Jul 13 03:28	0° Mp		iiiii. Lattii dist.	7913 Aug 16 19:04	30°Rる	4.40/3/ AO
evening set	7908 Aug 13 17:50	≎ my 7°My14'11		direct	7913 Sep 21 02:06	28°る11'50	
evening set	7700 Mag 15 17.50	/ III + 1 I		uncet	7913 Oct 26 14:08	0°≈	
conjunction	7908 Aug 27 09:39	10° m) 28'26	-0°01'18		7914 Jan 22 06:47	15° ≈	
minimum elong	7908 Aug 27 09:38	10° m) 28'25		evening set	7914 Jan 24 10:47	15° ≈ 27'53	
behind sun begin	7908 Aug 27 01:14	10° m) 23'28		max. Earth dist.	7914 Feb 04 10:28	17° ≈ 50'24	6.45951 AU
behind sun end	7908 Aug 27 18:03	10° m 33'23					
max. Earth dist.	7908 Aug 29 21:02	11° m 03'40	6.00642 AU	conjunction	7914 Feb 06 07:25	18° ≈ 14'47	0°20'16
morning rise	7908 Sep 10 03:01	13° m) 43'14		minimum elong	7914 Feb 06 07:26	18° ≈ 14'47	0°20'21
asc. node	7908 Sep 12 16:43	14° m 19'26		morning rise	7914 Feb 19 02:04	21° ≈ 00'51	
	7908 Nov 30 14:23	0° ⊽		-	7914 Apr 04 10:53	0° ∀	
retrograde	7909 Jan 17 14:35	3° ₽ 33'10		retrograde	7914 Jun 20 04:23	7°) 54′17	
	7909 Mar 06 19:34	30°R, Mp		opposition	7914 Aug 20 03:42	3° 米 01′39	0°11'25
min. Earth dist.	7909 Mar 16 13:55	28° Mp41'48	4.08050 AU	min. Earth dist.	7914 Aug 21 17:02	2°) 49'44	4.41063 AU
opposition	7909 Mar 18 04:18	28° Mp 28'46	0°21'02		7914 Sep 14 15:57	30° R ≈	
direct	7909 May 15 20:11	23° m 30'30		direct	7914 Oct 21 17:19	28° ≈ 00'54	
	7909 Jul 21 09:37	0∘ ⊽			7914 Nov 27 16:17	0° ∀	
evening set	7909 Sep 19 11:39	12° £ 28'50		desc. node	7914 Dec 14 09:48	2° ∺ 02'58	
		_		evening set	7915 Feb 24 00:11	15°) 41′52	
conjunction	7909 Oct 03 03:05	15° ≏ 35'38		max. Earth dist.	7915 Mar 06 10:32	18° 米 00′56	6.34477 AU
minimum elong	7909 Oct 03 03:04	15° ≏ 35'38	0°27'36				
max. Earth dist.							
morning rise	7909 Oct 05 10:18	16° ≏ 07'10	6.16424 AU	conjunction	7915 Mar 08 18:34	18°) 32′11	
	7909 Oct 05 10:18 7909 Oct 16 18:58	16° ♀ 07'10 18° ♀ 42'15	6.16424 AU	minimum elong	7915 Mar 08 18:35	18° ¥ 32'11	-0°05'47 0°05'45
	7909 Oct 05 10:18 7909 Oct 16 18:58 7909 Dec 10 00:07	16° ♀ 07'10 18° ♀ 42'15 0° ጤ	6.16424 AU	minimum elong behind sun begin	7915 Mar 08 18:35 7915 Mar 08 10:56	18°) 32'11 18°) 27'57	
retrograde	7909 Oct 05 10:18 7909 Oct 16 18:58 7909 Dec 10 00:07 7910 Feb 19 18:42	16° Ω 07'10 18° Ω 42'15 0° M 7° M 16'55		minimum elong behind sun begin behind sun end	7915 Mar 08 18:35 7915 Mar 08 10:56 7915 Mar 09 02:13	18° ¥ 32'11 18° ¥ 27'57 18° ¥ 36'26	
min. Earth dist.	7909 Oct 05 10:18 7909 Oct 16 18:58 7909 Dec 10 00:07 7910 Feb 19 18:42 7910 Apr 19 11:56	16° 2 07'10 18° 2 42'15 0° M 7° M 16'55 2° M 24'28	4.24884 AU	minimum elong behind sun begin	7915 Mar 08 18:35 7915 Mar 08 10:56 7915 Mar 09 02:13 7915 Mar 21 11:45	18°¥32'11 18°¥27'57 18°¥36'26 21°¥22'10	
•	7909 Oct 05 10:18 7909 Oct 16 18:58 7909 Dec 10 00:07 7910 Feb 19 18:42 7910 Apr 19 11:56 7910 Apr 20 18:18	16° Ω 07'10 18° Ω 42'15 0° M 7° M 16'55 2° M 24'28 2° M 14'16		minimum elong behind sun begin behind sun end morning rise	7915 Mar 08 18:35 7915 Mar 08 10:56 7915 Mar 09 02:13 7915 Mar 21 11:45 7915 May 01 12:43	18°) 32'11 18°) 27'57 18°) 36'26 21°) 22'10 0° Υ	
min. Earth dist. opposition	7909 Oct 05 10:18 7909 Oct 16 18:58 7909 Dec 10 00:07 7910 Feb 19 18:42 7910 Apr 19 11:56 7910 Apr 20 18:18 7910 May 08 02:45	16° Ω 07'10 18° Ω 42'15 0° M 7° M 16'55 2° M 24'28 2° M 14'16	4.24884 AU	minimum elong behind sun begin behind sun end morning rise retrograde	7915 Mar 08 18:35 7915 Mar 08 10:56 7915 Mar 09 02:13 7915 Mar 21 11:45 7915 May 01 12:43 7915 Jul 22 20:55	18°¥32'11 18°¥27'57 18°¥36'26 21°¥22'10 0°Ƴ 9°Ƴ04'09	0°05'45
min. Earth dist.	7909 Oct 05 10:18 7909 Oct 16 18:58 7909 Dec 10 00:07 7910 Feb 19 18:42 7910 Apr 19 11:56 7910 Apr 20 18:18 7910 May 08 02:45 7910 Jun 19 16:44	16° Ω 07'10 18° Ω 42'15 0° ጤ 7° ጤ 16'55 2° ጤ 24'28 2° ጤ 14'16 30° ጺΩ 27° Ω 13'53	4.24884 AU	minimum elong behind sun begin behind sun end morning rise retrograde opposition	7915 Mar 08 18:35 7915 Mar 08 10:56 7915 Mar 09 02:13 7915 Mar 21 11:45 7915 May 01 12:43 7915 Jul 22 20:55 7915 Sep 21 16:35	18°¥32'11 18°¥27'57 18°¥36'26 21°¥22'10 0°° 9°°¥04'09 4°°¥11'02	0°05'45 -0°27'48
min. Earth dist. opposition	7909 Oct 05 10:18 7909 Oct 16 18:58 7909 Dec 10 00:07 7910 Feb 19 18:42 7910 Apr 19 11:56 7910 Apr 20 18:18 7910 May 08 02:45 7910 Jun 19 16:44 7910 Aug 01 14:24	16° 요 07'10 18° 요 42'15 0° ጤ 7° ጤ 16'55 2° ጤ 24'28 2° ጤ 14'16 30° ዪ요 27° 요 13'53	4.24884 AU	minimum elong behind sun begin behind sun end morning rise retrograde	7915 Mar 08 18:35 7915 Mar 08 10:56 7915 Mar 09 02:13 7915 Mar 21 11:45 7915 May 01 12:43 7915 Jul 22 20:55 7915 Sep 21 16:35 7915 Sep 23 07:37	18° \ \ 32'11 18° \ \ 27'57 18° \ \ 36'26 21° \ \ 22'10 0° Υ 9° Υ 04'09 4° Υ 11'02 3° Υ '58'31	0°05'45
min. Earth dist. opposition direct	7909 Oct 05 10:18 7909 Oct 16 18:58 7909 Dec 10 00:07 7910 Feb 19 18:42 7910 Apr 19 11:56 7910 Apr 20 18:18 7910 May 08 02:45 7910 Jun 19 16:44 7910 Aug 01 14:24 7910 Oct 22 06:48	16° Ω 07'10 18° Ω 42'15 0° M 7° M 16'55 2° M 24'28 2° M 14'16 30° <u>R</u> Ω 27° Ω 13'53 0° M 15° M	4.24884 AU	minimum elong behind sun begin behind sun end morning rise retrograde opposition min. Earth dist.	7915 Mar 08 18:35 7915 Mar 08 10:56 7915 Mar 09 02:13 7915 Mar 21 11:45 7915 May 01 12:43 7915 Jul 22 20:55 7915 Sep 21 16:35 7915 Sep 23 07:37 7915 Oct 30 13:18	18°\cdot\delta27'57 18°\cdot\delta27'57 18°\cdot\delta22'10 0°\cappa 9°\cappa04'09 4°\cappa11'02 3°\cappa58'31 30°\rangle\delta	0°05'45 -0°27'48
min. Earth dist. opposition	7909 Oct 05 10:18 7909 Oct 16 18:58 7909 Dec 10 00:07 7910 Feb 19 18:42 7910 Apr 19 11:56 7910 Apr 20 18:18 7910 May 08 02:45 7910 Jun 19 16:44 7910 Aug 01 14:24	16° 요 07'10 18° 요 42'15 0° ጤ 7° ጤ 16'55 2° ጤ 24'28 2° ጤ 14'16 30° ዪ요 27° 요 13'53	4.24884 AU	minimum elong behind sun begin behind sun end morning rise retrograde opposition	7915 Mar 08 18:35 7915 Mar 08 10:56 7915 Mar 09 02:13 7915 Mar 21 11:45 7915 May 01 12:43 7915 Jul 22 20:55 7915 Sep 21 16:35 7915 Sep 23 07:37 7915 Oct 30 13:18 7915 Nov 22 08:38	18° \ 32'11 18° \ 27'57 18° \ 36'26 21° \ 22'10 0° \ 9° \ 90'\ 40'9 4° \ 11'02 3° \ 58'31 30° \ \ 29° \ 11'56	0°05'45 -0°27'48
min. Earth dist. opposition direct evening set	7909 Oct 05 10:18 7909 Oct 16 18:58 7909 Dec 10 00:07 7910 Feb 19 18:42 7910 Apr 19 11:56 7910 Apr 20 18:18 7910 May 08 02:45 7910 Jun 19 16:44 7910 Aug 01 14:24 7910 Oct 22 06:48 7910 Oct 24 00:45	16° \$\textbf{\Omega} 07'10 \\ 18° \$\textbf{\Omega} 42'15 \\ 0° \$\mathbf{m} \\ 7° \$\mathbf{m} 16'55 \\ 2° \$\mathbf{m} 24'28 \\ 2° \$\mathbf{m} 14'16 \\ 30° \$\mathbf{R} \textbf{\Omega} \\ 27° \$\textbf{\Omega} 13'53 \\ 0° \$\mathbf{m} \\ 15° \$\mathbf{m} 22'57 \end{array}	4.24884 AU 0°56'25	minimum elong behind sun begin behind sun end morning rise retrograde opposition min. Earth dist. direct	7915 Mar 08 18:35 7915 Mar 08 10:56 7915 Mar 09 02:13 7915 Mar 21 11:45 7915 May 01 12:43 7915 Jul 22 20:55 7915 Sep 21 16:35 7915 Oct 30 13:18 7915 Nov 22 08:38 7915 Dec 15 04:48	18°\(\)32'11 18°\(\)32'57 18°\(\)36'26 21°\(\)22'10 0°\(\) 9°\(\)04'09 4°\(\)11'02 3°\(\)58'31 30°\(\)8\(\) 29°\(\)11'56 0°\(\)	0°05'45 -0°27'48
min. Earth dist. opposition direct	7909 Oct 05 10:18 7909 Oct 16 18:58 7909 Dec 10 00:07 7910 Feb 19 18:42 7910 Apr 19 11:56 7910 Apr 20 18:18 7910 May 08 02:45 7910 Jun 19 16:44 7910 Aug 01 14:24 7910 Oct 22 06:48	16° Ω 07'10 18° Ω 42'15 0° M 7° M 16'55 2° M 24'28 2° M 14'16 30° <u>R</u> Ω 27° Ω 13'53 0° M 15° M	4.24884 AU 0°56'25 0°45'48	minimum elong behind sun begin behind sun end morning rise retrograde opposition min. Earth dist.	7915 Mar 08 18:35 7915 Mar 08 10:56 7915 Mar 09 02:13 7915 Mar 21 11:45 7915 May 01 12:43 7915 Jul 22 20:55 7915 Sep 21 16:35 7915 Sep 23 07:37 7915 Oct 30 13:18 7915 Nov 22 08:38	18° \ 32'11 18° \ 27'57 18° \ 36'26 21° \ 22'10 0° \ 9° \ 704'09 4° \ 711'02 3° \ 758'31 30° \ \ 29° \ 11'56 0° \ \ 17° \ 735'59	0°05'45 -0°27'48

conjunction	7916 Apr 08 16:20	20° Ƴ 32'49	-0°31'10	morning rise	7921 Oct 21 17:56	23° ≏ 33'44	
minimum elong	7916 Apr 08 16:19	20°Υ32'48	0°31'13	morning risc	7921 Oct 21 17:30 7921 Nov 20 07:32	0°M	
morning rise	7916 Apr 21 10:41	23° Y ′29'55	0 31 13	retrograde	7922 Feb 24 06:33	11° M 57'01	
g 1.00	7916 May 20 13:07	0°8		min. Earth dist.	7922 Apr 24 03:01	7° M .04'11	4.27487 AU
retrograde	7916 Aug 26 06:30	12° 8 23'12		opposition	7922 Apr 25 07:04	6° M .54'48	0°59'50
opposition	7916 Oct 25 15:16	7° 8 28'28	-1°01'09	direct	7922 Jun 24 11:05	1°M54'13	
min. Earth dist.	7916 Oct 26 21:11	7° 8 18'44	4.09708 AU		7922 Oct 05 13:35	15° ™	
direct	7916 Dec 24 23:43	2° 8 31'39		evening set	7922 Oct 28 16:17	19° M 55'59	
	7917 Mar 31 10:18	15° 8					
evening set	7917 Apr 29 21:58	21° 8 46'51		conjunction	7922 Nov 11 02:54	22°M52'41	0°47'11
				minimum elong	7922 Nov 11 02:53	22°M52'40	0°47'18
conjunction	7917 May 12 19:47	24° 8 52'06	-0°47'31	max. Earth dist.	7922 Nov 12 09:12	23°M09'18	6.35226 AU
minimum elong	7917 May 12 19:47	24° 8 52'06	0°47'38	morning rise	7922 Nov 24 12:20	25°M48'30	
max. Earth dist.	7917 May 11 14:41	24° 8 34'39	6.02048 AU		7922 Dec 14 03:28	0°⊀	
morning rise	7917 May 25 19:01	27° 8 58'22		retrograde	7923 Mar 27 00:05	13° 渘 ¹08'44	
	7917 Jun 03 08:17	Π $^{\circ}0$		opposition	7923 May 26 11:11	8° ∡ 109'55	1°12'38
retrograde	7917 Oct 03 01:01	18° Ⅱ 06′05		min. Earth dist.	7923 May 26 00:19	8° ҂ 13′29	4.41602 AU
opposition	7917 Dec 01 22:15	13° Ⅱ 08'33	-1°14'41	direct	7923 Jul 26 21:38	3° ∡ ¹08'17	
min. Earth dist.	7917 Dec 02 05:24	13° Ⅱ 06'11	3.95844 AU	evening set	7923 Nov 29 18:32	20° ∡ ³35'19	
direct	7918 Jan 29 19:02	8° Ⅱ 13'48					
evening set	7918 Jun 05 05:40	28° Ⅱ 09'33		conjunction	7923 Dec 12 23:41	23° ≯ 25'24	0°49'12
	7918 Jun 12 19:00	$0 \circ \mathfrak{S}$		minimum elong	7923 Dec 12 23:42	23° ≯ 25'24	0°49'20
				max. Earth dist.	7923 Dec 13 00:59	23° ≯ 26′05	6.46335 AU
conjunction	7918 Jun 18 10:03	1° 5 22'35		morning rise	7923 Dec 26 02:37	26° ∡ 14'20	
minimum elong	7918 Jun 18 10:04	1° 5 22'35			7924 Jan 13 00:43	0° ठ	
max. Earth dist.	7918 Jun 18 17:15		5.91881 AU	retrograde	7924 Apr 24 18:09	12° 云 57'17	
morning rise	7918 Jul 01 16:49	4° © 37'01		opposition	7924 Jun 24 13:11	8° る 01'46	1°05'21
retrograde	7918 Nov 10 23:15	25° © 29'01		min. Earth dist.	7924 Jun 24 22:07	7° る 58'53	4.49097 AU
opposition	7919 Jan 09 11:03	20°527'57		direct	7924 Aug 25 22:16	2°る59'57	
min. Earth dist.	7919 Jan 08 17:31	20°533'51	3.90629 AU	evening set	7924 Dec 29 10:54	20°る11'56	C 40C01 ATT
direct	7919 Mar 08 10:54	15°933'32		max. Earth dist.	7925 Jan 10 06:54	22° る 43'46	6.49681 AU
	7919 Jun 19 07:12	0° Ω 5° Ω 38'33		:	7025 I 11 10.51	22° る 58'45	0920101
evening set	7919 Jul 13 03:17	5-863833		conjunction minimum elong	7925 Jan 11 10:51 7925 Jan 11 10:52	22°る58'45	0°38'01 0°38'09
conjunction	7919 Jul 26 15:09	8° Ω 55'01	0°27'00	morning rise	7925 Jan 24 08:41	25° る 44'33	0 38 09
minimum elong	7919 Jul 26 15:10	8° Ω 55'02		morning rise	7925 Feb 13 17:45	25 ○ 44 55	
max. Earth dist.	7919 Jul 28 10:40	9° Ω 21'27		retrograde	7925 May 24 15:09	0 ~ 12° ≈ 20'21	
morning rise	7919 Aug 09 05:26	12° Ω 12'42	3.92133 110	opposition	7925 Jul 24 13:58	7°≈27'00	0°41'24
morning 1130	7919 Aug 20 21:47	15°Ω		min. Earth dist.	7925 Jul 25 17:09	7°≈18'18	4.48184 AU
	7919 Nov 06 05:55	0° m)		direct	7925 Sep 25 08:22	2°≈25'28	1.10101110
retrograde	7919 Dec 18 23:04	2° m/52'09			7926 Jan 06 03:20	15° ≈	
	7920 Jan 30 15:38	30°R Ω		evening set	7926 Jan 28 15:47	19° ≈ 44'25	
min. Earth dist.	7920 Feb 14 21:14	28° Ω 00'11	3.96413 AU	max. Earth dist.	7926 Feb 08 12:44	22° ≈ 05'54	6.44533 AU
opposition	7920 Feb 16 08:17	27° Ω 48'16	-0°18'21				
direct	7920 Apr 14 07:46	22° Q 52'07		conjunction	7926 Feb 10 12:10	22° ≈ 31'43	0°16'52
	7920 Jun 22 05:36	o° my		minimum elong	7926 Feb 10 12:11	22° ≈ 31'44	0°16'57
asc. node	7920 Jul 22 15:02	6° Mp 12'51		morning rise	7926 Feb 23 06:28	25°≈18'14	
evening set	7920 Aug 19 01:46	12° m 30'10			7926 Mar 17 10:33	0°) €	
				retrograde	7926 Jun 24 14:01	12° ℋ 17'38	
conjunction	7920 Sep 01 17:38	15° m 43'28	0°03'13	opposition	7926 Aug 24 13:48	7° ∺ 25′02	0°06'01
minimum elong	7920 Sep 01 17:38	15° m 43'28	0°03'11	min. Earth dist.	7926 Aug 26 03:24	7° ℋ 13'02	4.39090 AU
behind sun begin	7920 Sep 01 09:17	15° m 38'34		desc. node	7926 Oct 24 08:18	2°) €24'46	
behind sun end	7920 Sep 02 01:59	15° m 48'22		direct	7926 Oct 26 00:03	2°) 24'31	
max. Earth dist.	7920 Sep 04 05:20	16° m 18'42	6.02760 AU	evening set	7927 Feb 28 09:24	20° 升 11'44	
morning rise	-						6.32097 AU
	7920 Sep 15 11:16	18° m 57'18		max. Earth dist.	7927 Mar 10 20:08	22°) 31'47	0.32097 AU
	7920 Sep 15 11:16 7920 Nov 05 05:25	0∘ ⊽					
retrograde	7920 Sep 15 11:16 7920 Nov 05 05:25 7921 Jan 22 09:49	8° ಪ 36'09		conjunction	7927 Mar 13 03:43	23°) €02'58	-0°09'33
min. Earth dist.	7920 Sep 15 11:16 7920 Nov 05 05:25 7921 Jan 22 09:49 7921 Mar 21 11:39	0° ჲ 8° ჲ 36'09 3° ჲ 44'50		conjunction minimum elong	7927 Mar 13 03:43 7927 Mar 13 03:42	23°¥02'58 23°¥02'57	
•	7920 Sep 15 11:16 7920 Nov 05 05:25 7921 Jan 22 09:49 7921 Mar 21 11:39 7921 Mar 23 02:04	0° ჲ 8° ჲ 36'09 3° ჲ 44'50 3° ჲ 31'47	4.10563 AU 0°26'58	conjunction minimum elong behind sun begin	7927 Mar 13 03:43 7927 Mar 13 03:42 7927 Mar 12 21:03	23°₩02'58 23°₩02'57 22°₩59'14	-0°09'33
min. Earth dist. opposition	7920 Sep 15 11:16 7920 Nov 05 05:25 7921 Jan 22 09:49 7921 Mar 21 11:39 7921 Mar 23 02:04 7921 Apr 21 05:15	0° Ω 8° Ω 36'09 3° Ω 44'50 3° Ω 31'47		conjunction minimum elong behind sun begin behind sun end	7927 Mar 13 03:43 7927 Mar 13 03:42 7927 Mar 12 21:03 7927 Mar 13 10:20	23°\cdot\02'58 23°\cdot\02'57 22°\cdot\59'14 23°\cdot\06'39	-0°09'33
min. Earth dist.	7920 Sep 15 11:16 7920 Nov 05 05:25 7921 Jan 22 09:49 7921 Mar 21 11:39 7921 Mar 23 02:04 7921 Apr 21 05:15 7921 May 20 21:52	0°		conjunction minimum elong behind sun begin	7927 Mar 13 03:43 7927 Mar 13 03:42 7927 Mar 12 21:03 7927 Mar 13 10:20 7927 Mar 25 20:52	23°\tag{02'58} 23°\tag{02'57} 22°\tag{59'14} 23°\tag{06'39} 25°\tag{53'54}	-0°09'33
min. Earth dist. opposition direct	7920 Sep 15 11:16 7920 Nov 05 05:25 7921 Jan 22 09:49 7921 Mar 21 11:39 7921 Mar 23 02:04 7921 Apr 21 05:15 7921 May 20 21:52 7921 Jun 19 21:28	0° ሷ 8° ሷ 36′09 3° ሷ 44′50 3° ሷ 31′47 30° R m 28° m 33′08 0° ሷ		conjunction minimum elong behind sun begin behind sun end morning rise	7927 Mar 13 03:43 7927 Mar 13 03:42 7927 Mar 12 21:03 7927 Mar 13 10:20 7927 Mar 25 20:52 7927 Apr 13 13:24	23°\tau2'58 23°\tau2'57 22°\tau59'14 23°\tau6'39 25°\tau53'54 0°\tau	-0°09'33
min. Earth dist. opposition	7920 Sep 15 11:16 7920 Nov 05 05:25 7921 Jan 22 09:49 7921 Mar 21 11:39 7921 Mar 23 02:04 7921 Apr 21 05:15 7921 May 20 21:52	0°		conjunction minimum elong behind sun begin behind sun end morning rise retrograde	7927 Mar 13 03:43 7927 Mar 13 03:42 7927 Mar 12 21:03 7927 Mar 13 10:20 7927 Mar 25 20:52 7927 Apr 13 13:24 7927 Jul 27 18:05	23°\tau2'58 23°\tau2'57 22°\tau59'14 23°\tau6'39 25°\tau5'354 0°\tau 13°\tau45'56	-0°09'33 0°09'32
min. Earth dist. opposition direct evening set	7920 Sep 15 11:16 7920 Nov 05 05:25 7921 Jan 22 09:49 7921 Mar 21 11:39 7921 Mar 23 02:04 7921 Apr 21 05:15 7921 May 20 21:52 7921 Jun 19 21:28 7921 Sep 24 11:46	0° Ω 8° Ω 36'09 3° Ω 44'50 3° Ω 31'47 30° R M 28° M 33'08 0° Ω 17° Ω 23'14	0°26'58	conjunction minimum elong behind sun begin behind sun end morning rise retrograde opposition	7927 Mar 13 03:43 7927 Mar 13 03:42 7927 Mar 12 21:03 7927 Mar 13 10:20 7927 Mar 25 20:52 7927 Apr 13 13:24 7927 Jul 27 18:05 7927 Sep 26 11:21	23°\tau2'58 23°\tau2'57 22°\tau59'14 23°\tau6'39 25°\tau53'54 0°\tau 13°\tau45'56 8°\tau52'46	-0°09'33 0°09'32 -0°33'08
min. Earth dist. opposition direct evening set conjunction	7920 Sep 15 11:16 7920 Nov 05 05:25 7921 Jan 22 09:49 7921 Mar 21 11:39 7921 Mar 23 02:04 7921 Apr 21 05:15 7921 May 20 21:52 7921 Jun 19 21:28 7921 Sep 24 11:46 7921 Oct 08 02:53	0° £ 8° £36'09 3° £44'50 3° £31'47 30° R M 28° M 33'08 0° £ 17° £23'14 20° £28'40	0°26'58 0°30'54	conjunction minimum elong behind sun begin behind sun end morning rise retrograde opposition min. Earth dist.	7927 Mar 13 03:43 7927 Mar 13 03:42 7927 Mar 12 21:03 7927 Mar 13 10:20 7927 Mar 25 20:52 7927 Apr 13 13:24 7927 Jul 27 18:05 7927 Sep 26 11:21 7927 Sep 28 02:43	23°\tau2'58 23°\tau2'57 22°\tau59'14 23°\tau6'39 25°\tau5'54 0°\tau 13°\tau45'56 8°\tau52'46 8°\tau40'07	-0°09'33 0°09'32
min. Earth dist. opposition direct evening set	7920 Sep 15 11:16 7920 Nov 05 05:25 7921 Jan 22 09:49 7921 Mar 21 11:39 7921 Mar 23 02:04 7921 Apr 21 05:15 7921 May 20 21:52 7921 Jun 19 21:28 7921 Sep 24 11:46	0° Ω 8° Ω 36'09 3° Ω 44'50 3° Ω 31'47 30° R M 28° M 33'08 0° Ω 17° Ω 23'14	0°26'58 0°30'54 0°30'56	conjunction minimum elong behind sun begin behind sun end morning rise retrograde opposition	7927 Mar 13 03:43 7927 Mar 13 03:42 7927 Mar 12 21:03 7927 Mar 13 10:20 7927 Mar 25 20:52 7927 Apr 13 13:24 7927 Jul 27 18:05 7927 Sep 26 11:21	23°\tau2'58 23°\tau2'57 22°\tau59'14 23°\tau6'39 25°\tau53'54 0°\tau 13°\tau45'56 8°\tau52'46	-0°09'33 0°09'32 -0°33'08

max. Earth dist.	7928 Apr 11 08:11	24° Y 55'57	6.15560 AU	conjunction minimum elong	7933 Oct 13 00:22 7933 Oct 13 00:20	25° £ 16'49 25° £ 16'48	0°33'59 0°34'02
conjunction	7928 Apr 13 08:55	25° Y ′24'19	-0°34'13	max. Earth dist.	7933 Oct 15 00:20	25° Ω 45'45	6.21626 AU
minimum elong	7928 Apr 13 08:54	25° Υ 24'18	0°34'16	morning rise	7933 Oct 26 14:47	28° ♀ 20'29	0.21020110
morning rise	7928 Apr 26 03:53	28° Ƴ 22'48		. <i>&</i>	7933 Nov 03 01:41	0°M	
5	7928 May 03 04:30	0°8			7934 Jan 28 03:33	15° ™	
	7928 Jul 22 07:33	15° 8		retrograde	7934 Feb 28 14:54	16°M33'23	
retrograde	7928 Aug 31 11:43	17° 8 27'59		Ü	7934 Mar 31 22:06	15°RM	
Ü	7928 Oct 11 01:30	15° R 8		opposition	7934 Apr 29 17:47	11°M31'36	1°02'52
opposition	7928 Oct 30 19:26	12° 8 32'56	-1°04'34	min. Earth dist.	7934 Apr 28 15:22	11°M40'25	4.29799 AU
min. Earth dist.	7928 Oct 31 21:31	12° 8 24'26	4.07247 AU	direct	7934 Jun 29 01:38	6°M30'46	
direct	7928 Dec 29 21:29	7° 8 36'32			7934 Sep 17 01:13	15° M	
	7929 Mar 11 04:35	15° 8		evening set	7934 Nov 02 06:24	24°M26'34	
evening set	7929 May 04 23:02	26° 8 59'16					
-	•			conjunction	7934 Nov 15 16:18	27°M22'09	0°48'19
conjunction	7929 May 17 21:39	0° Ⅱ 05'46	-0°48'33	minimum elong	7934 Nov 15 16:17	27°M22'09	0°48'25
minimum elong	7929 May 17 21:39	0° Ⅱ 05'46	0°48'40	max. Earth dist.	7934 Nov 16 18:19	27°M36'22	6.37170 AU
max. Earth dist.	7929 May 16 22:22	29° 8 51'45	6.00040 AU		7934 Nov 27 17:44	0° ∡ 7	
	7929 May 17 12:04	$\Pi^{\circ}0$		morning rise	7934 Nov 29 00:45	0° х 16′49	
morning rise	7929 May 30 21:44	3° Ⅱ 13′21		retrograde	7935 Mar 31 05:32	17° х 30′12	
retrograde	7929 Oct 08 14:04	23° II 30'10		opposition	7935 May 30 17:01	12° 渘 ³31'54	1°12'44
opposition	7929 Dec 07 09:11	18° Ⅱ 32'09	-1°14'12	min. Earth dist.	7935 May 30 09:30	12° ҂ ³34′22	4.43055 AU
min. Earth dist.	7929 Dec 07 13:08	18° Ⅲ 30′51	3.94509 AU	direct	7935 Jul 31 07:47	7° ∡ ³30′11	
direct	7930 Feb 04 02:53	13° Ⅱ 37'36		evening set	7935 Dec 04 02:57	24° ≯ ′54′03	
	7930 May 26 12:54	0ංම					
evening set	7930 Jun 10 13:40	3°536'37		conjunction	7935 Dec 17 07:16	27° х 43′30	0°48'20
				minimum elong	7935 Dec 17 07:17	27° х ⁴43'30	0°48'29
conjunction	7930 Jun 23 19:11	6°950'25	-0°44'54	max. Earth dist.	7935 Dec 17 03:05	27° ∡ ′41'15	6.47185 AU
minimum elong	7930 Jun 23 19:12	6° 9 50'25	0°45'03		7935 Dec 27 21:53	0°ප	
max. Earth dist.	7930 Jun 24 08:53	6° 9 58'47	5.91359 AU	morning rise	7935 Dec 30 09:32	0° る 31'50	
morning rise	7930 Jul 07 03:04	10° © 05'37		retrograde	7936 Apr 28 22:09	17° る 12'21	
	7930 Oct 22 23:12	$0 ^{\circ} \Omega$		opposition	7936 Jun 28 17:36	12° る 17'11	1°02'51
retrograde	7930 Nov 16 11:24	0° Ω 58'37		min. Earth dist.	7936 Jun 29 05:31	12° る 13'20	4.49324 AU
	7930 Dec 10 19:27	30° ₹ 5		direct	7936 Aug 30 04:26	7° る 15'17	
opposition	7931 Jan 14 22:01	25° 9 57'05		evening set	7937 Jan 02 16:48	24° る 27'30	
min. Earth dist.	7931 Jan 14 00:55	26° © 04'13	3.91000 AU	max. Earth dist.	7937 Jan 14 10:13	26° る 58'06	6.49271 AU
direct	7931 Mar 13 20:12	21° © 02'33					
	7931 May 30 12:37	$0^{\circ}\Omega$		conjunction	7937 Jan 15 16:21	27° る 14'17	0°35'31
evening set	7931 Jul 18 13:06	11° Ω 04'47		minimum elong	7937 Jan 15 16:22	27° る 14'18	0°35'38
		0		morning rise	7937 Jan 28 13:26	29° る 59'59	
conjunction	7931 Aug 01 01:36	14° Ω 21'02			7937 Jan 28 13:27	0° ≈	
minimum elong	7931 Aug 01 01:37	14° Ω 21'02			7937 Apr 25 23:34	15° ≈	
max. Earth dist.	7931 Aug 02 23:32		5.93335 AU	retrograde	7937 May 28 20:52	16° ≈ 37'49	
	7931 Aug 03 17:58	15° Ω		*,*	7937 Jun 30 20:24	15°R≈	002655
morning rise	7931 Aug 14 16:46	17° Ω 38′28		opposition	7937 Jul 28 20:36	11°≈44'40	0°36'55
. 1	7931 Oct 09 13:47	0° m		min. Earth dist.	7937 Jul 30 01:17	11°≈35'30	4.47174 AU
retrograde	7931 Dec 24 01:13	8° Mp 10'33	3.98249 AU	direct	7937 Sep 29 14:04	6°≈43'15	
min. Earth dist.	7932 Feb 19 23:55	3°M)18'56		avanina aat	7937 Dec 19 00:46	15°≈ 24°2205!28	
opposition	7932 Feb 21 12:44	3° Mp 06'24	-0-11-44	evening set	7938 Feb 01 22:46	24°≈05'38	6.42987 AU
1:4	7932 Mar 17 08:07	30°R Ω		max. Earth dist.	7938 Feb 12 16:42	26°≈26′03	6.42987 AU
direct	7932 Apr 19 14:09	28° Ω 09'53			7020 E-L 14 10.20	26952121	0012110
asa mada	7932 May 22 22:29	0° M/p		conjunction	7938 Feb 14 18:39	26°≈53'21	0°13'18 0°13'23
asc. node	7932 May 31 20:26	1° Mp 03'00		minimum elong behind sun begin	7938 Feb 14 18:39 7938 Feb 14 14:04	26°≈53'21 26°≈50'51	0 13 23
evening set	7932 Aug 24 07:17	17° m)41'01		behind sun end	7938 Feb 14 14.04 7938 Feb 14 23:15	26°≈55'51	
conjunction	7932 Sep 06 23:23	20° m 53'18	0°07'33	morning rise	7938 Feb 14 23:13 7938 Feb 27 12:48	20 ≈3331 29°≈40'23	
minimum elong	7932 Sep 06 23:23	20° m 53'18	0°07'33	morning 1150	7938 Heb 27 12.48 7938 Mar 01 00:57	29 ≈ 40 23 0° ∺	
behind sun begin	7932 Sep 06 25:23 7932 Sep 06 15:47	20° Mp 48'52	0 0/32	retrograde	7938 Jun 29 04:29	16°) 46′07	
behind sun end	7932 Sep 00 15.47 7932 Sep 07 06:58	20° m/ 57'43		opposition	7938 Aug 29 02:32	11° X 53'33	0°00'26
max. Earth dist.	7932 Sep 07 00:38 7932 Sep 09 11:50	20° my 37° 43° 21° my 28'46	6.05070 AU	min. Earth dist.	7938 Aug 30 17:42	11° X 33'33	4.37100 AU
morning rise	7932 Sep 09 11:30 7932 Sep 20 16:45	24° Mp 05'55	0.00070710	desc. node	7938 Sep 02 12:26	11°) 19'46	, 100 110
	7932 Oct 16 18:26	0° ರ		direct	7938 Oct 30 11:23	6° ¥ 53'14	
retrograde	7933 Jan 27 04:46	13° ₽ 33'31		evening set	7939 Mar 04 20:24	24°) 46'26	
min. Earth dist.	7933 Mar 26 08:25	8° ≏ 41'49	4.13087 AU	max. Earth dist.	7939 Mar 15 07:21	27°) 07'20	6.29829 AU
opposition	7933 Mar 27 21:14	8° £ 29'21	0°32'38			. , , , , = 0	
direct	7933 May 25 22:30	3° ₽ 30'22	- 	conjunction	7939 Mar 17 14:44	27°) 38'32	-0°13'21
evening set	7933 Sep 29 09:48	22° ₽ 12'43		minimum elong	7939 Mar 17 14:43	27° H 38'32	
<i>3</i>	· r	-= .0					

max. Earth dist.

7944 Sep 14 12:06

26° m 24'53 6.07319 AU

desc. node

7950 Jul 13 07:57

21°**)**€06'01

7974 Jan 11 17:34

0°)

7967 Aug 30 14:09

morning rise

3°m/20'37

	7995 Jul 27 22:35	30°R ✓		min. Earth dist.	8000 Dec 01 12:00	13° Ⅱ 18'53	3.96431 AU
direct	7995 Aug 22 00:05	29° ₹ 03'35		direct	8001 Jan 29 02:54	8° Ⅱ 26'50	
	7995 Sep 16 07:09	8°0		evening set	8001 Jun 04 11:29	28° Ⅱ 20′22	
evening set	7995 Dec 25 13:57	16° ප 16'43		•	8001 Jun 11 07:16	0ಂತಾ	
conjunction	7996 Jan 07 14:43	19° る 03'52	0°40'25	conjunction	8001 Jun 17 15:36	1° 5 32'59	-0°46'43
minimum elong	7996 Jan 07 14:44	19° る 03'52	0°40'33	minimum elong	8001 Jun 17 15:36	1° © 32'59	0°46'51
max. Earth dist.	7996 Jan 06 14:58	18° る 51'09	6.49651 AU	max. Earth dist.	8001 Jun 17 22:39	1° 9 37'17	5.92469 AU
morning rise	7996 Jan 20 13:22	21° る 49'58		morning rise	8001 Jun 30 22:00	4° 5 46'59	
	7996 Mar 01 02:03	0° ≈		retrograde	8001 Nov 10 02:11	25° © 36'04	
retrograde	7996 May 19 19:16	8° ≈ 25'02		opposition	8002 Jan 08 14:25	20°535'09	
opposition	7996 Jul 19 17:27	3° ≈ 31′24		min. Earth dist.	8002 Jan 07 21:09	20°540'58	3.91147 AU
min. Earth dist.	7996 Jul 20 17:58	3° ≈ 23'32	4.48865 AU	direct	8002 Mar 07 14:45	15°5540'47	
	7996 Aug 19 08:08	30°Ŗる			8002 Jun 18 00:38	0 \circ Ω	
direct	7996 Sep 20 11:11	28° る 29'46		evening set	8002 Jul 12 06:26	5° Ω 43'52	
	7996 Oct 22 17:45	0° ≈					
_	7997 Jan 20 04:59	15° ≈		conjunction	8002 Jul 25 17:44	8° Ω 59'57	
evening set	7997 Jan 23 19:15	15° ≈ 46'14		minimum elong	8002 Jul 25 17:45	8° Ω 59'58	
max. Earth dist.	7997 Feb 03 19:36	18° ≈ 09'05	6.45888 AU	max. Earth dist.	8002 Jul 27 10:29	9° Ω 24'42	5.92509 AU
	5005 F. J. 05 16 12	100 20116	0000107	morning rise	8002 Aug 08 07:47	12° Ω 17'19	
conjunction	7997 Feb 05 16:13	18° ≈ 33'16	0°20'37		8002 Aug 19 16:22	15° Ω	
minimum elong	7997 Feb 05 16:14	18°≈33'17	0°20'43		8002 Nov 04 20:12	0° m	
morning rise	7997 Feb 18 11:00	21°≈19'27		retrograde	8002 Dec 17 23:29	2° m 55'45	
	7997 Apr 02 03:05	0° ∀		t materia	8003 Jan 30 05:56	30°R€	206554 177
retrograde	7997 Jun 19 12:03	8° ★ 13'04	001010	min. Earth dist.	8003 Feb 13 23:58	28° Ω 03'47	3.96554 AU
opposition	7997 Aug 19 12:02	3° ¥ 20′27	0°12'03	opposition	8003 Feb 15 10:48	27° Ω 51'55	-0°19'16
min. Earth dist.	7997 Aug 21 00:16	3° ∺ 08'53	4.41055 AU	direct	8003 Apr 14 10:29	22° Ω 55'51	
t:	7997 Sep 17 05:12	30°R≈		1	8003 Jun 22 00:08	0° Mp	
direct	7997 Oct 21 00:17	28°≈19'44		asc. node	8003 Jul 31 15:04	8° Mp 16'13	
JJ.	7997 Nov 23 20:34	0° ∺ 3° ∺ 24'00		evening set	8003 Aug 19 03:11	12° m 33'27	
desc. node	7997 Dec 20 19:03 7998 Feb 23 09:28	16°) €01'06		agniumation	9002 San 01 19:50	150 m 16112	0°02'31
evening set max. Earth dist.	7998 Feb 23 09.28 7998 Mar 05 20:57	18° ¥ 20'46	6.34543 AU	conjunction minimum elong	8003 Sep 01 18:59 8003 Sep 01 19:00	15° Mp 46'42 15° Mp 46'43	0°02'31
max. Earth dist.	7996 Widi 03 20.37	16 / 2040	0.34343 AU	behind sun begin	8003 Sep 01 19:00 8003 Sep 01 10:37	15° Mp 41'47	0 02 29
conjunction	7998 Mar 08 04:02	18° ¥ 51′29	-0°05'18	behind sun end	8003 Sep 01 10:37 8003 Sep 02 03:23	15° Mp 51'38	
minimum elong	7998 Mar 08 04:00	18° X 51'29	0°05'16	max. Earth dist.	8003 Sep 02 05:23 8003 Sep 04 06:28	16° Tp 21'50	6.02682 AU
behind sun begin	7998 Mar 07 20:18	18°) (47'12	0 03 10	morning rise	8003 Sep 15 12:18	19° mp 00'30	0.02002 110
behind sun end	7998 Mar 08 11:43	18°) 55'45		morning rise	8003 Nov 04 23:08	0∘ ⊽	
morning rise	7998 Mar 20 21:15	21°) (33,43		retrograde	8004 Jan 22 14:15	ა _ 8° ჲ 40'36	
morning rise	7998 Apr 29 06:25	0°Υ		min. Earth dist.	8004 Mar 20 16:05	3° Ω 48'58	4.10275 AU
retrograde	7998 Jul 22 06:16	9° Υ 23'01		opposition	8004 Mar 22 05:26	3° £ 36'18	0°25'57
opposition	7998 Sep 21 00:40	4° Υ 30'04	-0°27'01	rr	8004 Apr 21 04:15	30°R, ₩	
min. Earth dist.	7998 Sep 22 16:37	4° Ƴ 17'15	4.26817 AU	direct	8004 May 20 01:44	28° m 37'46	
	7998 Nov 04 01:08	30° ₹			8004 Jun 18 03:46	0∘ ⊽	
direct	7998 Nov 21 18:09	29°) 31′00		evening set	8004 Sep 23 13:56	17° ≏ 28'52	
	7998 Dec 09 09:23	$0^{\circ}\mathbf{\Upsilon}$		C			
evening set	7999 Mar 27 07:09	17° Ƴ 54'55		conjunction	8004 Oct 07 05:01	20° £ 34'31	0°30'16
max. Earth dist.	7999 Apr 06 22:46	20° Ƴ 22'14	6.18500 AU	minimum elong	8004 Oct 07 04:59	20° ₽ 34'30	0°30'18
				max. Earth dist.	8004 Oct 09 10:48	21° ≏ 05'04	6.18635 AU
conjunction	7999 Apr 09 01:42	20° Ƴ 51'41	-0°30'40	morning rise	8004 Oct 20 20:14	23° ≏ 39'52	
minimum elong	7999 Apr 09 01:41	20° Ƴ 51'40	0°30'43		8004 Nov 18 21:08	0° M	
morning rise	7999 Apr 21 20:09	23° Y 48'43		retrograde	8005 Feb 23 10:57	12°M05'38	
	7999 May 19 11:51	9° 8		min. Earth dist.	8005 Apr 23 07:12	7°M13'01	4.26896 AU
retrograde	7999 Aug 26 12:31	12° 8 40'28		opposition	8005 Apr 24 12:00	7°M03'22	0°59'06
opposition	7999 Oct 25 22:24	7° 8 45'51		direct	8005 Jun 23 14:03	2°M02'51	
min. Earth dist.	7999 Oct 27 03:09	7° 8 36'31	4.10110 AU		8005 Oct 03 22:18	15° ™	
direct	7999 Dec 25 06:43	2° 8 49'05		evening set	8005 Oct 27 20:18	20°M06'26	
	8000 Mar 29 11:56	15° 8					
evening set	8000 Apr 29 06:12	22° 8 03'04		conjunction	8005 Nov 10 07:08	23°M03'28	0°46'49
max. Earth dist.	8000 May 10 23:52	24° 8 51'14	6.02568 AU	minimum elong	8005 Nov 10 07:07	23°M03'28	0°46'56
				max. Earth dist.	8005 Nov 11 13:58	23°M20'25	6.34586 AU
conjunction	8000 May 12 03:55	25° 8 08'02		morning rise	8005 Nov 23 16:42	25°M59'39	
minimum elong	8000 May 12 03:54	25° 8 08'02	0°47'17		8005 Dec 12 09:48	0° ∡	
morning rise	8000 May 25 02:50	28° 8 13'57		retrograde	8006 Mar 26 08:32	13° ₹ 22'29	
	8000 Jun 01 13:54	0°II		opposition	8006 May 25 18:12	8° ≯ 23'37	1°12'20
retrograde	8000 Oct 02 06:50	18° Ⅱ 19'02	101.45	min. Earth dist.	8006 May 25 07:17	8°×727'12	4.40968 AU
opposition	8000 Dec 01 03:49	13° Ⅱ 21'36	-1~14′22	direct	8006 Jul 26 03:50	3° ≯ 22'03	

evening set	8006 Nov 29 00:53	20° ₹ 50'50		minimum elong	8012 May 17 02:12	0° П 12'14	0°48'22
				morning rise	8012 May 30 02:01	3° Ⅱ 19'19	
conjunction	8006 Dec 12 06:13	23° х 41'14	0°49'06	retrograde	8012 Oct 07 14:12	23° I I32'13	
minimum elong	8006 Dec 12 06:13	23° ∡ ⁴41'14	0°49'15	opposition	8012 Dec 06 10:29	18° ∏ 34'20	
max. Earth dist.	8006 Dec 12 07:23	23° ∡ ′41'51	6.45752 AU	min. Earth dist.	8012 Dec 06 14:56		3.95228 AU
morning rise	8006 Dec 25 09:35	26° ∡ ³30'32		direct	8013 Feb 03 04:51	13° ∏ 39'43	
	8007 Jan 10 23:40	0°₹			8013 May 25 14:40	0 \circ \odot	
retrograde	8007 Apr 25 03:31	13° る 15'27		evening set	8013 Jun 09 15:26	3° 5 36'18	
opposition	8007 Jun 24 21:39	8° る 19'48	1°05'26				
min. Earth dist.	8007 Jun 25 06:02	8° る 17'06	4.48619 AU	conjunction	8013 Jun 22 20:27	6° ॐ 49'38	-0°45'03
direct	8007 Aug 26 05:21	3° る 17'56		minimum elong	8013 Jun 22 20:28	6° ॐ 49'39	0°45'12
evening set	8007 Dec 29 19:11	20° る 31'12		max. Earth dist.	8013 Jun 23 07:18	6° ॐ 56′17	5.91888 AU
				morning rise	8013 Jul 06 04:04	10° © 04'27	
conjunction	8008 Jan 11 19:33	23° る 18'16	0°38'11		8013 Oct 22 15:08	$0 { m ^o} \Omega$	
minimum elong	8008 Jan 11 19:34	23° る 18'17	0°38'19	retrograde	8013 Nov 15 09:36	0° Ω 55′21	
max. Earth dist.	8008 Jan 10 18:01	23° る 04'35	6.49358 AU		8013 Dec 09 02:08	30° ₹ ∽	
morning rise	8008 Jan 24 17:27	26° පි 04'14		opposition	8014 Jan 13 21:41	25° © 53'55	-0°54'31
	8008 Feb 12 11:43	0° ≈		min. Earth dist.	8014 Jan 13 01:24	26° © 00'46	3.91258 AU
retrograde	8008 May 23 23:46	12° ≈ 40′51		direct	8014 Mar 12 20:58	20° © 59'22	
opposition	8008 Jul 23 23:02	7° ≈ 47'26	0°41'48		8014 May 29 19:51	$0^{\circ}\Omega$	
min. Earth dist.	8008 Jul 25 00:52	7° ≈ 39'10	4.48046 AU	evening set	8014 Jul 17 12:41	11° Ω 00'59	
direct	8008 Sep 24 16:14	2° ≈ 45'56					
	8009 Jan 03 19:48	15° ≈		conjunction	8014 Jul 31 01:02	14° Ω 17'07	-0°23'38
evening set	8009 Jan 28 01:15	20° ≈ 05'08		minimum elong	8014 Jul 31 01:03	14° Ω 17'08	0°23'45
max. Earth dist.	8009 Feb 07 22:35	22° ≈ 26'51	6.44597 AU	max. Earth dist.	8014 Aug 01 22:27	14° Ω 44'38	5.93311 AU
					8014 Aug 02 23:48	15° Ω	
conjunction	8009 Feb 09 21:38	22° ≈ 52'27	0°17'13	morning rise	8014 Aug 13 15:43	17° Ω 34'25	
minimum elong	8009 Feb 09 21:39	22° ≈ 52'28	0°17'19	Ü	8014 Oct 08 20:30	0° m/y	
morning rise	8009 Feb 22 16:12	25°≈39'01		retrograde	8014 Dec 23 02:50	8° mp 07'28	
5	8009 Mar 15 04:00	0°) €		min. Earth dist.	8015 Feb 19 02:04		3.97935 AU
retrograde	8009 Jun 24 00:00	12°) 37'48		opposition	8015 Feb 20 13:17	3° m 03'26	
opposition	8009 Aug 23 22:38	7°) (45'11	0°06'39	оррожион	8015 Mar 16 21:34	30°RΩ	V 12 .
min. Earth dist.	8009 Aug 25 12:31	7° ₩ 33'05	4.39359 AU	direct	8015 Apr 19 14:56	28° Ω 07'03	
direct	8009 Oct 25 10:14	2°) 44'35	, 500, 110		8015 May 23 09:05	0° m)	
desc. node	8009 Oct 30 11:06	2°) (46'55		asc. node	8015 Jun 10 14:11	2° m) 22'28	
evening set	8010 Feb 27 18:30	20°\(\frac{10}{30}\)'50		evening set	8015 Aug 24 07:14	17° m) 39'34	
max. Earth dist.	8010 Mar 10 05:48	22° H 51'02	6.32559 AU	evening set	0013 Aug 24 07.14	דיני ליני אוויי	
max. Lartii dist.	0010 Wai 10 03.40	22 /(3102	0.32337 AO	conjunction	8015 Sep 06 23:13	20° m 52'05	0°06'47
conjunction	8010 Mar 12 12:59	23°) €21'56	-0°09'03	minimum elong	8015 Sep 06 23:13	20° m/52'05	0°06'46
minimum elong	8010 Mar 12 12:59	23° H 21'56	0°09'02	behind sun begin	8015 Sep 06 25:15	20° m/ 47'31	0 00 40
behind sun begin	8010 Mar 12 06:10	23° X 18'08	0 07 02	behind sun end	8015 Sep 07 07:00	20° m 56'38	
behind sun end	8010 Mar 12 19:48	23°)(25'44		max. Earth dist.	8015 Sep 07 07:00 8015 Sep 09 11:05	20° m) 27'15	6.04493 AU
morning rise	8010 Mar 25 06:11	26° X 12'43		morning rise	8015 Sep 09 11:05 8015 Sep 20 16:40	24° Mp 05'01	0.04493 AO
morning risc	8010 Apr 11 12:16	0° Υ		morning risc	8015 Oct 16 19:01	0° Ω	
retrograde	8010 Jul 26 23:33	14° Υ 02'28		retrograde	8016 Jan 27 07:15	0 — 13° Ω 35'47	
opposition	8010 Sep 25 18:14	9° Υ 09'17	0°32'21	min. Earth dist.	8016 Mar 25 10:25	8° £ 44'24	4.12330 AU
min. Earth dist.	8010 Sep 27 08:21	8° Υ 57'02	4.24666 AU	opposition	8016 Mar 27 00:01	8° ⊆ 31'40	0°31'36
direct	8010 Sep 27 08:21 8010 Nov 26 06:50	4°Υ10'28	4.24000 AC	direct	8016 May 24 22:56	3° ⊆ 32'50	0 31 30
evening set	8011 Mar 31 21:44	22° Υ 40'32		evening set	8016 Sep 28 12:07	22° £ 17'55	
max. Earth dist.	8011 Apr 11 16:22		6.16333 AU	evening set	6010 Sep 26 12.07	22 =1733	
max. Darui Uist.	0011 Apr 11 10.22	2J 11010	0.10 <i>333 A</i> U	conjunction	8016 Oct 12 02:47	25° ≏ 22'27	0°33'22
conjunction	8011 Apr 13 16:27	25° Ƴ 38'15	0022142	minimum elong	8016 Oct 12 02:47 8016 Oct 12 02:46	25° £ 22'26	0°33'26
minimum elong	8011 Apr 13 16:26	25° Υ 38'14		max. Earth dist.	8016 Oct 12 02:40 8016 Oct 14 05:29	25° £ 51'08	6.20767 AU
_	8011 Apr 15 10:20 8011 Apr 26 11:15	28° Y 36'20	0 33 43		8016 Oct 25 17:25	23 ⊆ 31 08 28° ⊆ 26'36	0.20707 AU
morning rise		0° 8		morning rise	8016 Nov 01 16:57	28 = 20 30	
	8011 May 02 12:36 8011 Jul 21 01:16	15° 8				บ แน 15°M	
ratra ara da				rotro ara do	8017 Jan 25 18:09		
retrograde	8011 Aug 31 16:21	17° 8 37'55		retrograde	8017 Feb 27 22:54	16°M43'21	
***	8011 Oct 12 16:31 8011 Oct 30 23:47	15°R 8	1002152	•••	8017 Apr 01 21:26	15°RM	1002112
opposition min. Earth dist.		12° 8 42'55		opposition min. Earth dist.	8017 Apr 28 23:50 8017 Apr 27 21:46	11°M41'33	1°02'13
		120 4101		TOTAL CALID CITY	OUL / ADE 7.7 7.1.46	11° M 50'15	4.28926 AU
	8011 Nov 01 03:06	12° 8 34'01	4.08078 AU		•		
direct	8011 Nov 01 03:06 8011 Dec 30 04:29	7° 8 46'24	4.080/8 AU	direct	8017 Jun 28 06:57	6°M40'54	
direct	8011 Nov 01 03:06 8011 Dec 30 04:29 8012 Mar 09 15:10	7° ႘ 46'24 15° ႘	4.080/8 AU	direct	8017 Jun 28 06:57 8017 Sep 15 04:57	6°M40'54 15°M	
direct evening set	8011 Nov 01 03:06 8011 Dec 30 04:29 8012 Mar 09 15:10 8012 May 04 03:47	7° 8 46'24 15° 8 27° 8 06'11			8017 Jun 28 06:57	6°M40'54	
direct	8011 Nov 01 03:06 8011 Dec 30 04:29 8012 Mar 09 15:10 8012 May 04 03:47 8012 May 16 02:01	7°846'24 15°8 27°806'11 29°857'42	6.00853 AU	direct evening set	8017 Jun 28 06:57 8017 Sep 15 04:57 8017 Nov 01 11:33	6°M40'54 15°M 24°M39'20	0040100
direct evening set	8011 Nov 01 03:06 8011 Dec 30 04:29 8012 Mar 09 15:10 8012 May 04 03:47	7° 8 46'24 15° 8 27° 8 06'11		direct evening set conjunction	8017 Jun 28 06:57 8017 Sep 15 04:57 8017 Nov 01 11:33 8017 Nov 14 21:45	6°M40'54 15°M 24°M39'20 27°M35'23	0°48'00
direct evening set	8011 Nov 01 03:06 8011 Dec 30 04:29 8012 Mar 09 15:10 8012 May 04 03:47 8012 May 16 02:01	7°846'24 15°8 27°806'11 29°857'42	6.00853 AU	direct evening set	8017 Jun 28 06:57 8017 Sep 15 04:57 8017 Nov 01 11:33	6°M40'54 15°M 24°M39'20	0°48'00 0°48'06 6.36381 AU

	8017 Nov 25 22:23	0° ∡ ¹		opposition	8023 Nov 04 20:42	17° 8 30'37	-1°06'39
morning rise	8017 Nov 28 06:30	0° ≯ ³30'30		min. Earth dist.	8023 Nov 05 21:45	17° 8 22'27	4.06126 AU
retrograde	8018 Mar 30 13:42	17° ∡ ¹46'51			8023 Nov 25 00:58	15°R 8	
opposition	8018 May 30 01:17	12° ∡ ⁴48′29	1°12'31	direct	8024 Jan 03 19:44	12° 8 34'22	
min. Earth dist.	8018 May 29 15:48	12° ₹ 51'35	4.42449 AU		8024 Feb 12 01:16	15° 8	
direct	8018 Jul 30 13:12	7° ∡ ¹46'55			8024 Apr 30 11:18	0°II	
evening set	8018 Dec 03 10:32	25° х 12′20		evening set	8024 May 08 21:37	2° Ⅱ 00'15	
C					•		
conjunction	8018 Dec 16 15:07	28° ₹ 02'01	0°48'19	conjunction	8024 May 21 20:41	5° Ⅱ 07'25	-0°48'55
minimum elong	8018 Dec 16 15:08	28° ₹ 02'02	0°48'27	minimum elong	8024 May 21 20:41	5° Ⅱ 07'25	0°49'02
max. Earth dist.	8018 Dec 16 13:20	28° х 01′04	6.46854 AU	max. Earth dist.	8024 May 20 22:57	4° Ⅱ 54'18	5.99076 AU
	8018 Dec 25 18:53	0° ප		morning rise	8024 Jun 03 21:30	8° Ⅱ 15'44	
morning rise	8018 Dec 29 17:34	0° る 50'35		retrograde	8024 Oct 12 18:43	28° Ⅱ 37'13	
retrograde	8019 Apr 29 08:06	17° る 32'05		opposition	8024 Dec 11 13:22	23° Ⅱ 38'51	
opposition	8019 Jun 29 02:45	12° る 36'54	1°03'01	min. Earth dist.	8024 Dec 11 15:07		3.93801 AU
min. Earth dist.	8019 Jun 29 13:34	12° る 33'24	4.49299 AU	direct	8025 Feb 08 04:36	18° ∏ 44'18	
direct	8019 Aug 30 13:16	7° る 35'08			8025 May 08 01:28	0	
evening set	8020 Jan 03 01:14	24° ろ 46'59		evening set	8025 Jun 14 16:11	8° © 45'14	
max. Earth dist.	8020 Jan 14 19:19	27° る 17'52	6.49574 AU				
	0000 1 16 00 10	252	0005145	conjunction	8025 Jun 27 22:29	11°959'35	
conjunction	8020 Jan 16 00:48	27°₹33'42	0°35'47	minimum elong	8025 Jun 27 22:30	11°959'36	0°43'16
minimum elong	8020 Jan 16 00:49	27° る 33'43	0°35'54	max. Earth dist.	8025 Jun 28 14:57	12°509'40	5.90973 AU
	8020 Jan 27 09:52	0°≈ 0°≈19'23		morning rise	8025 Jul 11 07:08	15° © 15'20 0° Ω	
morning rise	8020 Jan 28 22:13	0°≈1923 15°≈		ratra ara da	8025 Sep 17 06:07 8025 Nov 20 16:33	6° Ω 09'35	
ratra ara da	8020 Apr 22 06:23 8020 May 28 05:08	15 ≈ 16°≈55'57		retrograde min. Earth dist.	8025 Nov 20 16:33 8026 Jan 18 04:23	1°Ω15'11	3.90973 AU
retrograde	8020 Jul 03 06:33	16 ≈3337 15°R≈		opposition	8026 Jan 19 02:23	1° Ω 07'45	
opposition	8020 Jul 28 04:43	13 k∞ 12°≈02'43	0°37'30	opposition	8026 Jan 27 12:36	30°RS	-0 4931
min. Earth dist.	8020 Jul 29 08:26	12 ≈ 02 43	4.47792 AU	direct	8026 Mar 18 00:01	26°913'03	
direct	8020 Sep 28 22:24	7°≈01'18	4.47772710	direct	8026 May 05 07:44	0°Ω	
direct	8020 Dec 16 18:31	15° ≈			8026 Jul 17 12:35	15° Ω	
evening set	8021 Feb 01 05:48	24°≈21'20		evening set	8026 Jul 22 17:50	16° Ω 15'08	
max. Earth dist.	8021 Feb 12 02:20	26°≈42'50	6.43887 AU				
				conjunction	8026 Aug 05 07:00	19° Ω 31'30	-0°19'46
conjunction	8021 Feb 14 01:54	27°≈08'46	0°13'51	minimum elong	8026 Aug 05 07:01	19° Ω 31'31	0°19'52
minimum elong	8021 Feb 14 01:54	27°≈08'46	0°13'56	max. Earth dist.	8026 Aug 07 07:08	20° Ω 00'36	5.93672 AU
behind sun begin	8021 Feb 13 21:46	27° ≈ 06'31		morning rise	8026 Aug 18 22:41	22° Ω 49'01	
behind sun end	8021 Feb 14 06:03	27°≈11'01			8026 Sep 18 21:59	0° m	
morning rise	8021 Feb 26 19:54	29° ≈ 55'25		retrograde	8026 Dec 28 03:42	13°Mp18'14	
	8021 Feb 27 04:22	0° ∀		min. Earth dist.	8027 Feb 24 01:06	8° ™ 26'45	3.98910 AU
retrograde	8021 Jun 28 07:27	16°) ₹ 57'44		opposition	8027 Feb 25 14:29	8° m 14'01	-0°06'27
opposition	8021 Aug 28 07:23	12°) €05'08	0°01'25	asc. node	8027 Apr 21 20:59	3°№18'06	
min. Earth dist.	8021 Aug 29 21:25	11°) 53′00	4.38218 AU	direct	8027 Apr 24 16:37	3°Mp17'17	
desc. node	8021 Sep 11 15:40	10° ∺ 17'39		evening set	8027 Aug 29 11:25	22° m 46'23	
direct	8021 Oct 29 16:38	7°) €04'46					
evening set	8022 Mar 04 00:51	24°) 54'11		conjunction	8027 Sep 12 03:36	25° Mp 58'18	0°10'55
max. Earth dist.	8022 Mar 14 11:02	27° ∺ 14'17	6.31053 AU	minimum elong	8027 Sep 12 03:35	25° m 58'17	0°10'54
	0000 16 10 50	270\/ 45144	0010126	behind sun begin	8027 Sep 11 21:19	25° m 54'38	
conjunction	8022 Mar 16 18:58	27°) (45'44		behind sun end	8027 Sep 12 09:52	26° Mp 01'57	6.05005.444
minimum elong	8022 Mar 16 18:57	27° H 45'44 27° H 42'50	0°12'36	max. Earth dist.	8027 Sep 14 15:15	26° Mp 33'13	6.05985 AU
behind sun begin	8022 Mar 16 13:47	27° H 42'30		morning rise	8027 Sep 25 21:05	29° m 10'30	
behind sun end	8022 Mar 17 00:08 8022 Mar 26 17:55	2/°π4838 0°Υ		retrograde	8027 Sep 29 10:41 8028 Feb 01 02:25	0° 亞	
morning rise	8022 Mar 29 12:11	0° Υ 37'05		min. Earth dist.	8028 Mar 30 06:49	18 = 33 03 13° £ 41'19	4.14158 AU
morning rise retrograde	8022 Mar 29 12:11 8022 Jul 31 15:42	18° Υ 33'55		opposition	8028 Mar 31 19:12	13° £ 41′19	4.14158 AU 0°36'55
opposition	8022 Sep 30 08:32	13° Y 40'33	-0°37'13	direct	8028 May 29 22:33	8° ⊆ 29'47	0 3033
min. Earth dist.	8022 Scp 30 08:32 8022 Oct 01 23:02	13° Υ 28'09	4.22860 AU	evening set	8028 Oct 03 10:49	27° ⊆ 09'17	
direct	8022 Nov 30 18:44	8° Υ 41'56		5. J	8028 Oct 16 02:30	0°M	
evening set	8023 Apr 05 08:36	27° Υ 17'18			3020 300 10 02.30	V 11W	
max. Earth dist.	8023 Apr 16 04:52	29° Υ 48'38	6.14374 AU	conjunction	8028 Oct 17 01:10	0°M12'46	0°36'13
	8023 Apr 17 00:19	0°8		minimum elong	8028 Oct 17 01:09	0°M12'45	0°36'18
	p	. •		max. Earth dist.	8028 Oct 19 03:33	0°M41'08	6.22774 AU
conjunction	8023 Apr 18 03:40	0° 8 15'57	-0°36'23	morning rise	8028 Oct 30 15:04	3°M15'44	
minimum elong	8023 Apr 18 03:38	0° 8 15'56		5	8028 Dec 27 08:53	15° M ₊	
morning rise	8023 Apr 30 22:49	3° 8 15'02		retrograde	8029 Mar 04 09:02	21°M23'30	
-	8023 Jun 24 22:12	15° 8		min. Earth dist.	8029 May 02 10:48	16°M30'29	4.30929 AU
retrograde	8023 Sep 05 14:03	22° 8 25'55		opposition	8029 May 03 12:15	16°M22'01	1°04'53

	8029 May 13 21:58	15°RM		conjunction	8035 Apr 22 20:47	5° 8 08'10	-0°39'01
direct	8029 Jul 02 22:22	11°ML21'08		minimum elong	8035 Apr 22 20:46	5° 8 08'09	0°39'06
uncet	8029 Aug 22 02:24	15°M		morning rise	8035 May 05 16:39	8° 8 08'35	0 37 00
evening set	8029 Nov 06 03:32	29°M14'04		morning not	8035 Jun 05 00:16	15° 8	
	8029 Nov 09 16:10	0° %		retrograde	8035 Sep 10 20:08	27° 8 30'48	
				opposition	8035 Nov 10 01:03	22° 8 35'08	-1°09'13
conjunction	8029 Nov 19 12:49	2° ∡ ¹09'01	0°48'51	min. Earth dist.	8035 Nov 10 23:30	_	4.03842 AU
minimum elong	8029 Nov 19 12:49	2° ₹ '09'01	0°48'58	direct	8036 Jan 08 19:39	17° 8 39'10	
max. Earth dist.	8029 Nov 20 12:24	2° ҂ ¹21'53	6.38206 AU		8036 Apr 12 21:48	0° I I	
morning rise	8029 Dec 02 20:44	5° ₹ '03'01		evening set	8036 May 13 22:54	7° Ⅱ 12'11	
retrograde	8030 Apr 03 20:59	22° ₮ 12'28		•	•		
opposition	8030 Jun 03 08:54	17° ∡ 14'28	1°12'14	conjunction	8036 May 26 23:02	10° Ⅲ 20'40	-0°49'16
min. Earth dist.	8030 Jun 03 02:48	17° ∡ 16′27	4.43941 AU	minimum elong	8036 May 26 23:02	10° Ⅲ 20'40	0°49'24
direct	8030 Aug 04 01:53	12° ∡ 12'44		max. Earth dist.	8036 May 26 07:05	10° Ⅲ 11′01	5.97200 AU
evening set	8030 Dec 07 20:19	29° ∡ ³34′26		morning rise	8036 Jun 09 00:45	13° Ⅱ 30′19	
	8030 Dec 09 20:17	ರ°0			8036 Aug 28 00:42	0 \circ \odot	
				retrograde	8036 Oct 18 08:09	4° © 00'14	
conjunction	8030 Dec 21 00:11	2° る 23'25	0°47'12		8036 Dec 09 14:55	30° Ŗ Ⅱ	
minimum elong	8030 Dec 21 00:12	2° る 23'26	0°47'21	opposition	8036 Dec 16 23:42	29° Ⅱ 01'30	-1°11'35
max. Earth dist.	8030 Dec 20 18:50	2°る20'33	6.47872 AU	min. Earth dist.	8036 Dec 16 22:27	29° Ⅱ 01'55	3.92562 AU
morning rise	8031 Jan 03 01:48	5°る11'17		direct	8037 Feb 13 11:05	24° Ⅱ 07'08	
retrograde	8031 May 03 11:44	21° る 49'35			8037 Apr 15 23:11	0ංම	
opposition	8031 Jul 03 08:20	16° る 54'38	1°00'12	evening set	8037 Jun 20 00:42	14° © 11'27	
min. Earth dist.	8031 Jul 03 21:05	16° る 50'32	4.49773 AU				
direct	8031 Sep 03 20:00	11° る 52'50		conjunction	8037 Jul 03 07:58	17° 5 26'34	-0°40'41
evening set	8032 Jan 07 07:33	29° る 03'50		minimum elong	8037 Jul 03 07:59	17° 5 26'35	0°40'49
	8032 Jan 11 16:50	0° ≈		max. Earth dist.	8037 Jul 04 04:37	17° © 39'12	5.90499 AU
max. Earth dist.	8032 Jan 18 22:51	1° ≈ 33'19	6.49452 AU	morning rise	8037 Jul 16 17:59	20°543'08	
					8037 Aug 25 19:20	$0^{\circ}\Omega$	
conjunction	8032 Jan 20 06:33	1°≈50'20	0°33'07	retrograde	8037 Nov 26 02:22	11° Ω 38′03	
minimum elong	8032 Jan 20 06:34	1°≈50'21	0°33'14	min. Earth dist.	8038 Jan 23 10:32	6° Ω 44'39	3.91359 AU
morning rise	8032 Feb 02 03:13	4° ≈ 35'50		opposition	8038 Jan 24 12:35	6° Ω 35'50	-0°44'26
	8032 Mar 26 06:21	15° ≈		direct	8038 Mar 23 08:20	1° Ω 41'00	
retrograde	8032 Jun 01 11:43	21° ≈ 13'32			8038 Jun 29 13:33	15° Ω	
opposition	8032 Aug 01 11:47	16° ≈ 20′29	0°32'50	evening set	8038 Jul 28 04:04	21° Ω 40'41	
min. Earth dist.	8032 Aug 02 17:48	16°≈10'54	4.47064 AU				
	8032 Aug 12 02:51	15°R≈		conjunction	8038 Aug 10 17:58	24° Ω 56'50	
direct	8032 Oct 03 05:50	11°≈19'10		minimum elong	8038 Aug 10 17:59	24° Ω 56'51	0°15'36
	8032 Nov 23 18:21	15° ≈		behind sun begin	8038 Aug 10 16:18	24° Ω 55'50	
evening set	8033 Feb 05 12:21	28°≈41'34		behind sun end	8038 Aug 10 19:41	24° Ω 57'52	5.04001 ATT
TO ALLEY	8033 Feb 11 12:31	0° ∀	C 40504 ATT	max. Earth dist.	8038 Aug 12 21:23	25° Ω 27'50	5.94891 AU
max. Earth dist.	8033 Feb 16 04:47	1° H 01'20	6.42584 AU	morning rise	8038 Aug 24 10:13	28° Ω 14'00 0° m	
· · · · · · · · · · · · ·	9022 E-L 19 07.52	1° ¥ 29'18	0010114		8038 Aug 31 20:46		
conjunction	8033 Feb 18 07:53	1 77 29 10		matria area da	=		
minimum elong behind sun begin		101/20110	0°10'14	retrograde	8039 Jan 02 07:46	18° m 35'40	4.00002.411
	8033 Feb 18 07:53	1°)(29'18	0°10'14 0°10'19	min. Earth dist.	8039 Jan 02 07:46 8039 Mar 01 04:45	18° m 35'40 13° m 44'09	4.00803 AU
_	8033 Feb 18 01:34	1° ¥ 25'52		min. Earth dist.	8039 Jan 02 07:46 8039 Mar 01 04:45 8039 Mar 01 03:07	18° m 35'40 13° m 44'09 13° m 44'43	
behind sun end	8033 Feb 18 01:34 8033 Feb 18 14:12	1°) 25′52 1°) 32′44		min. Earth dist. asc. node opposition	8039 Jan 02 07:46 8039 Mar 01 04:45 8039 Mar 01 03:07 8039 Mar 02 18:31	18° m 35'40 13° m 44'09 13° m 44'43 13° m 31'17	
behind sun end morning rise	8033 Feb 18 01:34 8033 Feb 18 14:12 8033 Mar 03 01:46	1°)		min. Earth dist. asc. node opposition direct	8039 Jan 02 07:46 8039 Mar 01 04:45 8039 Mar 01 03:07 8039 Mar 02 18:31 8039 Apr 30 00:22	18° m 35'40 13° m 44'09 13° m 44'43 13° m 31'17 8° m 34'12	
behind sun end morning rise retrograde	8033 Feb 18 01:34 8033 Feb 18 14:12 8033 Mar 03 01:46 8033 Jul 02 20:46	1° ∺ 25'52 1° ∺ 32'44 4° ∺ 16'22 21° ∺ 24'19		min. Earth dist. asc. node opposition	8039 Jan 02 07:46 8039 Mar 01 04:45 8039 Mar 01 03:07 8039 Mar 02 18:31 8039 Apr 30 00:22 8039 Sep 03 17:07	18° m 35'40 13° m 44'09 13° m 44'43 13° m 31'17 8° m 34'12 27° m 56'23	
behind sun end morning rise retrograde desc. node	8033 Feb 18 01:34 8033 Feb 18 14:12 8033 Mar 03 01:46 8033 Jul 02 20:46 8033 Jul 22 05:35	1°¥25'52 1°¥32'44 4°¥16'22 21°¥24'19 20°¥49'28	0°10'19	min. Earth dist. asc. node opposition direct	8039 Jan 02 07:46 8039 Mar 01 04:45 8039 Mar 01 03:07 8039 Mar 02 18:31 8039 Apr 30 00:22	18° m 35'40 13° m 44'09 13° m 44'43 13° m 31'17 8° m 34'12	
behind sun end morning rise retrograde desc. node opposition	8033 Feb 18 01:34 8033 Feb 18 14:12 8033 Mar 03 01:46 8033 Jul 02 20:46 8033 Jul 22 05:35 8033 Sep 01 19:17	1°\\$25'52 1°\\$32'44 4°\\$16'22 21°\\$24'19 20°\\$49'28 16°\\$31'39	0°10'19 -0°04'07	min. Earth dist. asc. node opposition direct evening set	8039 Jan 02 07:46 8039 Mar 01 04:45 8039 Mar 01 03:07 8039 Mar 02 18:31 8039 Apr 30 00:22 8039 Sep 03 17:07 8039 Sep 12 13:57	18° m 35'40 13° m 44'09 13° m 44'43 13° m 31'17 8° m 34'12 27° m 56'23 0° •	0°00'12
behind sun end morning rise retrograde desc. node opposition min. Earth dist.	8033 Feb 18 01:34 8033 Feb 18 14:12 8033 Mar 03 01:46 8033 Jul 02 20:46 8033 Jul 22 05:35 8033 Sep 01 19:17 8033 Sep 03 10:29	1°¥25'52 1°¥32'44 4°¥16'22 21°¥24'19 20°¥49'28 16°¥31'39 16°¥19'07	0°10'19	min. Earth dist. asc. node opposition direct evening set	8039 Jan 02 07:46 8039 Mar 01 04:45 8039 Mar 01 03:07 8039 Mar 02 18:31 8039 Apr 30 00:22 8039 Sep 03 17:07 8039 Sep 12 13:57 8039 Sep 17 09:23	18° ሺ 35'40 13° ሺ 44'09 13° ሺ 44'43 13° ሺ 31'17 8° ሺ 34'12 27° ሺ 56'23 0° Ω 1° Ω07'12	0°00'12 0°15'04
behind sun end morning rise retrograde desc. node opposition min. Earth dist. direct	8033 Feb 18 01:34 8033 Feb 18 14:12 8033 Mar 03 01:46 8033 Jul 02 20:46 8033 Jul 22 05:35 8033 Sep 01 19:17 8033 Sep 03 10:29 8033 Nov 03 02:29	1°\£25'52 1°\£32'44 4°\£16'22 21°\£24'19 20°\£49'28 16°\£31'39 16°\£19'07 11°\£31'24	0°10'19 -0°04'07	min. Earth dist. asc. node opposition direct evening set conjunction minimum elong	8039 Jan 02 07:46 8039 Mar 01 04:45 8039 Mar 01 03:07 8039 Mar 02 18:31 8039 Apr 30 00:22 8039 Sep 03 17:07 8039 Sep 12 13:57 8039 Sep 17 09:23 8039 Sep 17 09:23	18° ሺ 35'40 13° ሺ 44'09 13° ሺ 44'43 13° ሺ 31'17 8° ሺ 34'12 27° ሺ 56'23 0° Ω 1° Ω 07'12 1° Ω 07'11	0°00'12
behind sun end morning rise retrograde desc. node opposition min. Earth dist.	8033 Feb 18 01:34 8033 Feb 18 14:12 8033 Mar 03 01:46 8033 Jul 02 20:46 8033 Jul 22 05:35 8033 Sep 01 19:17 8033 Sep 03 10:29 8033 Nov 03 02:29 8034 Mar 08 10:52	1°\£25'52 1°\£32'44 4°\£16'22 21°\£24'19 20°\£49'28 16°\£31'39 16°\£19'07 11°\£31'24 29°\£26'20	0°10'19 -0°04'07	min. Earth dist. asc. node opposition direct evening set conjunction minimum elong behind sun begin	8039 Jan 02 07:46 8039 Mar 01 04:45 8039 Mar 01 03:07 8039 Mar 02 18:31 8039 Apr 30 00:22 8039 Sep 03 17:07 8039 Sep 12 13:57 8039 Sep 17 09:23 8039 Sep 17 09:22 8039 Sep 17 06:43	18° m 35'40 13° m 44'09 13° m 44'43 13° m 31'17 8° m 34'12 27° m 56'23 0° • 1° • 07'12 1° • 07'11 1° •	0°00'12 0°15'04
behind sun end morning rise retrograde desc. node opposition min. Earth dist. direct evening set	8033 Feb 18 01:34 8033 Feb 18 14:12 8033 Mar 03 01:46 8033 Jul 02 20:46 8033 Jul 22 05:35 8033 Sep 01 19:17 8033 Sep 03 10:29 8033 Nov 03 02:29 8034 Mar 08 10:52 8034 Mar 10 22:55	1°\\$25'52 1°\\$32'44 4°\\$16'22 21°\\$24'19 20°\\$49'28 16°\\$31'39 16°\\$19'07 11°\\$31'24 29°\\$26'20 0°\\$Y	0°10'19 -0°04'07 4.36402 AU	min. Earth dist. asc. node opposition direct evening set conjunction minimum elong behind sun begin behind sun end	8039 Jan 02 07:46 8039 Mar 01 04:45 8039 Mar 01 03:07 8039 Mar 02 18:31 8039 Apr 30 00:22 8039 Sep 03 17:07 8039 Sep 12 13:57 8039 Sep 17 09:23 8039 Sep 17 09:22 8039 Sep 17 06:43 8039 Sep 17 12:02	18° ሺ 35'40 13° ሺ 44'09 13° ሺ 44'43 13° ሺ 31'17 8° ሺ 34'12 27° ሺ 56'23 0° Ω 1° Ω 07'12 1° Ω 07'11 1° Ω 05'39 1° Ω 08'43	0°00'12 0°15'04 0°15'03
behind sun end morning rise retrograde desc. node opposition min. Earth dist. direct	8033 Feb 18 01:34 8033 Feb 18 14:12 8033 Mar 03 01:46 8033 Jul 02 20:46 8033 Jul 22 05:35 8033 Sep 01 19:17 8033 Sep 03 10:29 8033 Nov 03 02:29 8034 Mar 08 10:52	1°\£25'52 1°\£32'44 4°\£16'22 21°\£24'19 20°\£49'28 16°\£31'39 16°\£19'07 11°\£31'24 29°\£26'20	0°10'19 -0°04'07	min. Earth dist. asc. node opposition direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist.	8039 Jan 02 07:46 8039 Mar 01 04:45 8039 Mar 01 03:07 8039 Mar 02 18:31 8039 Apr 30 00:22 8039 Sep 03 17:07 8039 Sep 12 13:57 8039 Sep 17 09:23 8039 Sep 17 09:22 8039 Sep 17 06:43 8039 Sep 17 12:02 8039 Sep 19 22:42	18° m 35'40 13° m 44'09 13° m 44'43 13° m 31'17 8° m 34'12 27° m 56'23 0° • 1° • 1° • 1° • 1° • 1° • 1° • 1° • 1	0°00'12 0°15'04
behind sun end morning rise retrograde desc. node opposition min. Earth dist. direct evening set max. Earth dist.	8033 Feb 18 01:34 8033 Feb 18 14:12 8033 Mar 03 01:46 8033 Jul 02 20:46 8033 Jul 22 05:35 8033 Sep 01 19:17 8033 Sep 03 10:29 8033 Nov 03 02:29 8034 Mar 08 10:52 8034 Mar 10 22:55 8034 Mar 18 21:52	1°\\$25'52 1°\\$32'44 4°\\$16'22 21°\\$24'19 20°\\$49'28 16°\\$31'39 16°\\$19'07 11°\\$31'24 29°\\$26'20 0°\\$\\$1'\\$33'	0°10'19 -0°04'07 4.36402 AU 6.28862 AU	min. Earth dist. asc. node opposition direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise	8039 Jan 02 07:46 8039 Mar 01 04:45 8039 Mar 01 03:07 8039 Mar 02 18:31 8039 Apr 30 00:22 8039 Sep 03 17:07 8039 Sep 12 13:57 8039 Sep 17 09:23 8039 Sep 17 06:43 8039 Sep 17 06:43 8039 Sep 17 12:02 8039 Sep 19 22:42 8039 Oct 01 02:29	18° \$\mathbf{m}\ 35'40 13° \$\mathbf{m}\ 44'09 13° \$\mathbf{m}\ 44'43 13° \$\mathbf{m}\ 31'17 8° \$\mathbf{m}\ 34'12 27° \$\mathbf{m}\ 56'23 0° \$\mathbf{L}\$ 1° \$\mathbf{L}\ 07'12 1° \$\mathbf{L}\ 07'11 1° \$\mathbf{L}\ 08'43 1° \$\mathbf{L}\ 08'43 1° \$\mathbf{L}\ 218'07	0°00'12 0°15'04 0°15'03
behind sun end morning rise retrograde desc. node opposition min. Earth dist. direct evening set max. Earth dist. conjunction	8033 Feb 18 01:34 8033 Feb 18 14:12 8033 Mar 03 01:46 8033 Jul 02 20:46 8033 Jul 22 05:35 8033 Sep 01 19:17 8033 Sep 03 10:29 8033 Nov 03 02:29 8034 Mar 08 10:52 8034 Mar 10 22:55 8034 Mar 18 21:52	1°\L25'52 1°\L32'44 4°\L16'22 21°\L24'19 20°\L49'28 16°\L31'39 16°\L19'07 11°\L31'24 29°\L26'20 0°\Cappa 1°\Cappa 47'33 2°\Cappa 18'45	0°10'19 -0°04'07 4.36402 AU 6.28862 AU -0°16'17	min. Earth dist. asc. node opposition direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde	8039 Jan 02 07:46 8039 Mar 01 04:45 8039 Mar 01 03:07 8039 Mar 02 18:31 8039 Apr 30 00:22 8039 Sep 03 17:07 8039 Sep 12 13:57 8039 Sep 17 09:23 8039 Sep 17 09:22 8039 Sep 17 06:43 8039 Sep 17 12:02 8039 Sep 17 22:42 8039 Oct 01 02:29 8040 Feb 05 19:10	18° \$\mathbf{m}\ 35'40 13° \$\mathbf{m}\ 44'09 13° \$\mathbf{m}\ 44'43 13° \$\mathbf{m}\ 31'17 8° \$\mathbf{m}\ 34'12 27° \$\mathbf{m}\ 56'23 0° \$\mathbf{\sigma}\$ 1° \$\mathbf{\sigma}\ 07'12 1° \$\mathbf{\sigma}\ 07'11 1° \$\mathbf{\sigma}\ 08'43 1° \$\mathbf{\sigma}\ 08'43 1° \$\mathbf{\sigma}\ 42'53 4° \$\mathbf{\sigma}\ 18'07 23° \$\mathbf{\sigma}\ 29'05	0°00'12 0°15'04 0°15'03 6.08376 AU
behind sun end morning rise retrograde desc. node opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong	8033 Feb 18 01:34 8033 Feb 18 14:12 8033 Mar 03 01:46 8033 Jul 02 20:46 8033 Jul 22 05:35 8033 Sep 01 19:17 8033 Sep 03 10:29 8033 Nov 03 02:29 8034 Mar 08 10:52 8034 Mar 10 22:55 8034 Mar 12 22:55 8034 Mar 21 05:07 8034 Mar 21 05:06	1°\L25'52 1°\L32'44 4°\L6'22 21°\L24'19 20°\L49'28 16°\L31'39 16°\L19'07 11°\L31'24 29°\L26'20 0°\Cappa 1°\Cappa 47'33 2°\Cappa 18'45 2°\Cappa 18'45	0°10'19 -0°04'07 4.36402 AU 6.28862 AU -0°16'17	min. Earth dist. asc. node opposition direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde min. Earth dist.	8039 Jan 02 07:46 8039 Mar 01 04:45 8039 Mar 01 03:07 8039 Mar 02 18:31 8039 Apr 30 00:22 8039 Sep 03 17:07 8039 Sep 12 13:57 8039 Sep 17 09:23 8039 Sep 17 09:22 8039 Sep 17 06:43 8039 Sep 17 12:02 8039 Sep 19 22:42 8039 Oct 01 02:29 8040 Feb 05 19:10 8040 Apr 04 01:34	18° \$\mathbf{m}\ 35'40 13° \$\mathbf{m}\ 44'09 13° \$\mathbf{m}\ 44'43 13° \$\mathbf{m}\ 31'17 8° \$\mathbf{m}\ 34'12 27° \$\mathbf{m}\ 56'23 0° \$\mathbf{L}\$ 1° \$\mathbf{L}\ 07'12 1° \$\mathbf{L}\ 07'11 1° \$\mathbf{L}\ 08'43 1° \$\mathbf{L}\ 08'43 1° \$\mathbf{L}\ 218'07 23° \$\mathbf{L}\ 29'05 18° \$\mathbf{L}\ 37'32	0°00'12 0°15'04 0°15'03 6.08376 AU 4.16794 AU
behind sun end morning rise retrograde desc. node opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise	8033 Feb 18 01:34 8033 Feb 18 14:12 8033 Mar 03 01:46 8033 Jul 02 20:46 8033 Jul 22 05:35 8033 Sep 01 19:17 8033 Sep 03 10:29 8033 Nov 03 02:29 8034 Mar 08 10:52 8034 Mar 10 22:55 8034 Mar 12 21:52 8034 Mar 21 05:07 8034 Mar 21 05:06 8034 Apr 02 22:17	1°\(\)25'52 1°\(\)32'44 4°\(\)16'22 21°\(\)24'19 20°\(\)49'28 16°\(\)31'39 16°\(\)19'07 11°\(\)31'24 29°\(\)42'20 0°\(\)7 1°\(\)47'33 2°\(\)18'45 2°\(\)18'45 5°\(\)11'00	0°10'19 -0°04'07 4.36402 AU 6.28862 AU -0°16'17	min. Earth dist. asc. node opposition direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde min. Earth dist. opposition	8039 Jan 02 07:46 8039 Mar 01 04:45 8039 Mar 01 03:07 8039 Mar 02 18:31 8039 Apr 30 00:22 8039 Sep 03 17:07 8039 Sep 12 13:57 8039 Sep 17 09:23 8039 Sep 17 09:22 8039 Sep 17 06:43 8039 Sep 17 06:43 8039 Sep 17 12:02 8039 Sep 19 22:42 8039 Oct 01 02:29 8040 Feb 05 19:10 8040 Apr 04 01:34 8040 Apr 05 13:44	18° \$\mathbb{m}\ 35'40 13° \$\mathbb{m}\ 44'09 13° \$\mathbb{m}\ 44'43 13° \$\mathbb{m}\ 34'12 27° \$\mathbb{m}\ 56'23 0° \$\mathbb{n}\ 1° \$\mathbb{m}\ 07'12 1° \$\mathbb{m}\ 07'11 1° \$\mathbb{m}\ 07'11 1° \$\mathbb{m}\ 07'11 1° \$\mathbb{m}\ 08'43 1° \$\mathbb{m}\ 42'53 4° \$\mathbb{m}\ 18'07 23° \$\mathbb{m}\ 29'05 18° \$\mathbb{m}\ 37'32 18° \$\mathbb{m}\ 25'19	0°00'12 0°15'04 0°15'03 6.08376 AU 4.16794 AU
behind sun end morning rise retrograde desc. node opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde	8033 Feb 18 01:34 8033 Feb 18 14:12 8033 Mar 03 01:46 8033 Jul 02 20:46 8033 Jul 22 05:35 8033 Sep 01 19:17 8033 Sep 03 10:29 8033 Nov 03 02:29 8034 Mar 08 10:52 8034 Mar 10 22:55 8034 Mar 12 105:07 8034 Mar 21 05:06 8034 Apr 02 22:17 8034 Aug 05 12:06	1°\(\)25'52 1°\(\)32'44 4°\(\)16'22 21°\(\)24'19 20°\(\)49'28 16°\(\)31'39 16°\(\)41'9'07 11°\(\)31'24 29°\(\)42'6'20 0°\(\) 1°\(\)47'33 2°\(\)18'45 5°\(\)11'00 23°\(\)17'19	0°10'19 -0°04'07 4.36402 AU 6.28862 AU -0°16'17 0°16'17	min. Earth dist. asc. node opposition direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde min. Earth dist.	8039 Jan 02 07:46 8039 Mar 01 04:45 8039 Mar 01 03:07 8039 Mar 02 18:31 8039 Apr 30 00:22 8039 Sep 03 17:07 8039 Sep 12 13:57 8039 Sep 17 09:23 8039 Sep 17 09:22 8039 Sep 17 06:43 8039 Sep 17 12:02 8039 Sep 17 22:42 8039 Sep 19 22:42 8039 Oct 01 02:29 8040 Feb 05 19:10 8040 Apr 04 01:34 8040 Apr 05 13:44 8040 Jun 03 20:29	18° \$\mathbb{m}\ 35'40 13° \$\mathbb{m}\ 44'43 13° \$\mathbb{m}\ 44'43 13° \$\mathbb{m}\ 34'12 27° \$\mathbb{m}\ 56'23 0° \$\mathbb{m}\ 207'12 1° \$\mathbb{m}\ 07'11 1° \$\mathbb{m}\ 07'11 1° \$\mathbb{m}\ 07'11 1° \$\mathbb{m}\ 07'11 1° \$\mathbb{m}\ 08'43 1° \$\mathbb{m}\ 42'53 4° \$\mathbb{m}\ 18'07 23° \$\mathbb{m}\ 29'05 18° \$\mathbb{m}\ 37'32 18° \$\mathbb{m}\ 25'52	0°00'12 0°15'04 0°15'03 6.08376 AU 4.16794 AU
behind sun end morning rise retrograde desc. node opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition	8033 Feb 18 01:34 8033 Feb 18 14:12 8033 Mar 03 01:46 8033 Jul 02 20:46 8033 Jul 22 05:35 8033 Sep 01 19:17 8033 Sep 03 10:29 8033 Nov 03 02:29 8034 Mar 08 10:52 8034 Mar 10 22:55 8034 Mar 12 22:55 8034 Mar 21 05:06 8034 Apr 02 22:17 8034 Aug 05 12:06 8034 Oct 05 04:08	1°\L25'52 1°\L32'44 4°\L6'22 21°\L24'19 20°\L49'28 16°\L31'39 16°\L19'07 11°\L31'24 29°\L26'20 0°\V\$ 1°\V47'33 2°\V18'45 5°\V11'00 23°\V17'19 18°\V23'47	0°10'19 -0°04'07 4.36402 AU 6.28862 AU -0°16'17 0°16'17	min. Earth dist. asc. node opposition direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	8039 Jan 02 07:46 8039 Mar 01 04:45 8039 Mar 01 03:07 8039 Mar 02 18:31 8039 Apr 30 00:22 8039 Sep 03 17:07 8039 Sep 12 13:57 8039 Sep 17 09:23 8039 Sep 17 09:22 8039 Sep 17 06:43 8039 Sep 17 12:02 8039 Sep 17 22:42 8039 Sep 19 22:42 8039 Oct 01 02:29 8040 Feb 05 19:10 8040 Apr 04 01:34 8040 Apr 05 13:44 8040 Jun 03 20:29 8040 Sep 29 12:22	18° \$\mathbb{m}\ 35'40 13° \$\mathbb{m}\ 44'43 13° \$\mathbb{m}\ 44'43 13° \$\mathbb{m}\ 34'12 27° \$\mathbb{m}\ 56'23 0° \$\mathbb{n}\ 1° \$\mathbb{m}\ 07'12 1° \$\mathbb{m}\ 07'11 1° \$\mathbb{m}\ 07'11 1° \$\mathbb{m}\ 07'11 1° \$\mathbb{m}\ 08'43 1° \$\mathbb{m}\ 42'53 4° \$\mathbb{m}\ 18'07 23° \$\mathbb{m}\ 29'05 18° \$\mathbb{m}\ 37'32 18° \$\mathbb{m}\ 25'19 13° \$\mathbb{m}\ 25'52 0° \$\mathbb{M}\.	0°00'12 0°15'04 0°15'03 6.08376 AU 4.16794 AU
behind sun end morning rise retrograde desc. node opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist.	8033 Feb 18 01:34 8033 Feb 18 14:12 8033 Mar 03 01:46 8033 Jul 02 20:46 8033 Jul 22 05:35 8033 Sep 01 19:17 8033 Sep 03 10:29 8033 Nov 03 02:29 8034 Mar 08 10:52 8034 Mar 10 22:55 8034 Mar 12 22:55 8034 Mar 21 05:07 8034 Mar 21 05:07 8034 Apr 02 22:17 8034 Aug 05 12:06 8034 Oct 05 04:08 8034 Oct 06 17:33	1°\(\)25'52 1°\(\)32'44 4°\(\)16'22 21°\(\)24'19 20°\(\)49'28 16°\(\)31'39 16°\(\)19'07 11°\(\)31'24 29°\(\)26'20 0°\(\)7'47'33 2°\(\)18'45 5°\(\)11'00 23°\(\)17'19 18°\(\)23'47 18°\(\)1'44	0°10'19 -0°04'07 4.36402 AU 6.28862 AU -0°16'17 0°16'17	min. Earth dist. asc. node opposition direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde min. Earth dist. opposition	8039 Jan 02 07:46 8039 Mar 01 04:45 8039 Mar 01 03:07 8039 Mar 02 18:31 8039 Apr 30 00:22 8039 Sep 03 17:07 8039 Sep 12 13:57 8039 Sep 17 09:23 8039 Sep 17 09:22 8039 Sep 17 06:43 8039 Sep 17 12:02 8039 Sep 17 22:42 8039 Sep 19 22:42 8039 Oct 01 02:29 8040 Feb 05 19:10 8040 Apr 04 01:34 8040 Apr 05 13:44 8040 Jun 03 20:29	18° \$\mathbb{m}\ 35'40 13° \$\mathbb{m}\ 44'43 13° \$\mathbb{m}\ 44'43 13° \$\mathbb{m}\ 34'12 27° \$\mathbb{m}\ 56'23 0° \$\mathbb{m}\ 207'12 1° \$\mathbb{m}\ 07'11 1° \$\mathbb{m}\ 07'11 1° \$\mathbb{m}\ 07'11 1° \$\mathbb{m}\ 07'11 1° \$\mathbb{m}\ 08'43 1° \$\mathbb{m}\ 42'53 4° \$\mathbb{m}\ 18'07 23° \$\mathbb{m}\ 29'05 18° \$\mathbb{m}\ 37'32 18° \$\mathbb{m}\ 25'52	0°00'12 0°15'04 0°15'03 6.08376 AU 4.16794 AU
behind sun end morning rise retrograde desc. node opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition	8033 Feb 18 01:34 8033 Feb 18 14:12 8033 Mar 03 01:46 8033 Jul 02 20:46 8033 Jul 22 05:35 8033 Sep 01 19:17 8033 Sep 03 10:29 8033 Nov 03 02:29 8034 Mar 08 10:52 8034 Mar 10 22:55 8034 Mar 18 21:52 8034 Mar 21 05:07 8034 Mar 21 05:06 8034 Apr 02 22:17 8034 Aug 05 12:06 8034 Oct 05 04:08 8034 Oct 06 17:33 8034 Dec 05 08:53	1°\(\)25'52 1°\(\)32'44 4°\(\)\(\)16'22 21°\(\)\(\)24'19 20°\(\)\(\)49'28 16°\(\)31'39 16°\(\)\(\)19'07 11°\(\)31'24 29°\(\)\(\)26'20 0°\(\)\(\) 1°\(\)47'33 2°\(\)18'45 5°\(\)11'00 23°\(\)17'19 18°\(\)23'47 18°\(\)1'44 13°\(\)25'31	0°10'19 -0°04'07 4.36402 AU 6.28862 AU -0°16'17 0°16'17	min. Earth dist. asc. node opposition direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set	8039 Jan 02 07:46 8039 Mar 01 04:45 8039 Mar 01 03:07 8039 Mar 02 18:31 8039 Apr 30 00:22 8039 Sep 03 17:07 8039 Sep 12 13:57 8039 Sep 17 09:23 8039 Sep 17 09:22 8039 Sep 17 06:43 8039 Sep 17 12:02 8039 Sep 17 12:02 8039 Sep 19 22:42 8039 Oct 01 02:29 8040 Feb 05 19:10 8040 Apr 04 01:34 8040 Apr 05 13:44 8040 Jun 03 20:29 8040 Sep 29 12:22 8040 Oct 08 08:24	18° \$\mathbb{m}\ 35'40 13° \$\mathbb{m}\ 44'09 13° \$\mathbb{m}\ 44'43 13° \$\mathbb{m}\ 34'12 27° \$\mathbb{m}\ 56'23 0° \$\mathbb{n}\ 1° \$\mathbb{m}\ 05'39 1° \$\mathbb{m}\ 05'39 1° \$\mathbb{m}\ 08'43 1° \$\mathbb{m}\ 23' \$\mathbb{m}\ 25'53 4° \$\mathbb{m}\ 18'07 23° \$\mathbb{m}\ 29'05 18° \$\mathbb{m}\ 37'32 18° \$\mathbb{m}\ 25'52 0° \$\mathbb{m}\ 1° \$\mathbb{m}\ 57'19	0°00'12 0°15'04 0°15'03 6.08376 AU 4.16794 AU
behind sun end morning rise retrograde desc. node opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct	8033 Feb 18 01:34 8033 Feb 18 14:12 8033 Mar 03 01:46 8033 Jul 02 20:46 8033 Jul 22 05:35 8033 Sep 01 19:17 8033 Sep 03 10:29 8033 Nov 03 02:29 8034 Mar 08 10:52 8034 Mar 10 22:55 8034 Mar 18 21:52 8034 Mar 21 05:07 8034 Mar 21 05:06 8034 Apr 02 22:17 8034 Aug 05 12:06 8034 Oct 05 04:08 8034 Oct 06 17:33 8034 Dec 05 08:53 8035 Mar 31 19:03	1°\(\)25'52 1°\(\)32'44 4°\(\)\(\)16'22 21°\(\)\(\)24'19 20°\(\)\(\)49'28 16°\(\)31'39 16°\(\)\(\)19'07 11°\(\)31'24 29°\(\)\(\)26'20 0°\(\)\(\) 1°\(\)47'33 2°\(\)18'45 5°\(\)11'00 23°\(\)17'19 18°\(\)23'47 18°\(\)1'144 13°\(\)25'31 0°\(\)	0°10'19 -0°04'07 4.36402 AU 6.28862 AU -0°16'17 0°16'17	min. Earth dist. asc. node opposition direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set	8039 Jan 02 07:46 8039 Mar 01 04:45 8039 Mar 01 03:07 8039 Mar 02 18:31 8039 Apr 30 00:22 8039 Sep 03 17:07 8039 Sep 12 13:57 8039 Sep 17 09:23 8039 Sep 17 06:43 8039 Sep 17 06:43 8039 Sep 17 12:02 8039 Sep 17 12:02 8039 Sep 19 22:42 8039 Oct 01 02:29 8040 Feb 05 19:10 8040 Apr 04 01:34 8040 Apr 05 13:44 8040 Jun 03 20:29 8040 Sep 29 12:22 8040 Oct 08 08:24	18° \$\mathbf{m}\ 35'40 13° \$\mathbf{m}\ 44'09 13° \$\mathbf{m}\ 44'43 13° \$\mathbf{m}\ 34'12 27° \$\mathbf{m}\ 56'23 0° \$\mathbf{n}\ 207'12 1° \$\mathbf{n}\ 07'11 1° \$\mathbf{n}\ 07'11 1° \$\mathbf{n}\ 07'11 1° \$\mathbf{n}\ 08'43 1° \$\mathbf{n}\ 08'43 1° \$\mathbf{n}\ 42'53 4° \$\mathbf{n}\ 18'07 23° \$\mathbf{n}\ 29'05 18° \$\mathbf{n}\ 37'32 18° \$\mathbf{n}\ 25'19 13° \$\mathbf{n}\ 25'52 0° \$\mathbf{m}\ 1° \$\mathbf{m}\ 57'19 4° \$\mathbf{m}\ 59'21	0°00'12 0°15'04 0°15'03 6.08376 AU 4.16794 AU 0°41'59
behind sun end morning rise retrograde desc. node opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist.	8033 Feb 18 01:34 8033 Feb 18 14:12 8033 Mar 03 01:46 8033 Jul 02 20:46 8033 Jul 22 05:35 8033 Sep 01 19:17 8033 Sep 03 10:29 8033 Nov 03 02:29 8034 Mar 08 10:52 8034 Mar 10 22:55 8034 Mar 18 21:52 8034 Mar 21 05:07 8034 Mar 21 05:06 8034 Apr 02 22:17 8034 Aug 05 12:06 8034 Oct 05 04:08 8034 Oct 06 17:33 8034 Dec 05 08:53	1°\(\)25'52 1°\(\)32'44 4°\(\)16'22 21°\(\)24'19 20°\(\)49'28 16°\(\)31'39 16°\(\)19'07 11°\(\)31'24 29°\(\)26'20 0°\(\)7 1°\(\)47'33 2°\(\)18'45 2°\(\)18'45 5°\(\)11'00 23°\(\)17'19 18°\(\)23'47 18°\(\)11'44 13°\(\)25'31 0°\(\)8 2°\(\)8'21	0°10'19 -0°04'07 4.36402 AU 6.28862 AU -0°16'17 0°16'17	min. Earth dist. asc. node opposition direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set	8039 Jan 02 07:46 8039 Mar 01 04:45 8039 Mar 01 03:07 8039 Mar 02 18:31 8039 Apr 30 00:22 8039 Sep 03 17:07 8039 Sep 12 13:57 8039 Sep 17 09:23 8039 Sep 17 09:22 8039 Sep 17 06:43 8039 Sep 17 12:02 8039 Sep 17 12:02 8039 Sep 19 22:42 8039 Oct 01 02:29 8040 Feb 05 19:10 8040 Apr 04 01:34 8040 Apr 05 13:44 8040 Jun 03 20:29 8040 Sep 29 12:22 8040 Oct 08 08:24	18° \$\mathbb{m}\ 35'40 13° \$\mathbb{m}\ 44'09 13° \$\mathbb{m}\ 44'43 13° \$\mathbb{m}\ 34'12 27° \$\mathbb{m}\ 56'23 0° \$\mathbb{n}\ 1° \$\mathbb{m}\ 05'39 1° \$\mathbb{m}\ 05'39 1° \$\mathbb{m}\ 08'43 1° \$\mathbb{m}\ 23' \$\mathbb{m}\ 25'53 4° \$\mathbb{m}\ 18'07 23° \$\mathbb{m}\ 29'05 18° \$\mathbb{m}\ 37'32 18° \$\mathbb{m}\ 25'52 0° \$\mathbb{m}\ 1° \$\mathbb{m}\ 57'19	0°00'12 0°15'04 0°15'03 6.08376 AU 4.16794 AU 0°41'59 0°38'50 0°38'55

conjunction	8052 Oct 26 16:39	9° M 40'19	0°41'10	max. Earth dist.	8058 Mar 28 00:39	11° Y 09'01	6.23766 AU
minimum elong	8052 Oct 26 16:37	9° M 40'18	0°41'15				
max. Earth dist.	8052 Oct 28 12:27	10°M04'42	6.27889 AU	conjunction	8058 Mar 30 06:00	11° Y 39'31	-0°23'28
morning rise	8052 Nov 09 04:50	12°M40'22		minimum elong	8058 Mar 30 05:59	11° Y 39'30	0°23'30
	8052 Nov 19 20:05	15° M		morning rise	8058 Apr 11 23:40	14° Y 34'03	
	8053 Feb 23 21:44	0°⊀			8058 Jul 01 12:38	9° 8	
retrograde	8053 Mar 13 01:11	0° ≯ 28'11		retrograde	8058 Aug 15 14:18	3° 8 02'22	
	8053 Mar 30 02:13	30°RM			8058 Sep 30 07:53	30° ₹Ƴ	
min. Earth dist.	8053 May 11 11:29	25°M34'19	4.35500 AU	opposition	8058 Oct 15 02:38	28° Y 08′25	-0°51'38
opposition	8053 May 12 07:32	25°M27'40	1°08'57	min. Earth dist.	8058 Oct 16 13:08	27° Y 57'16	4.15242 AU
direct	8053 Jul 12 03:41	20°M26'30		direct	8058 Dec 14 22:33	23° Y 10′54	
	8053 Oct 06 12:06	0° ∡ 7			8059 Feb 21 20:43	$0^{\circ}S$	
evening set	8053 Nov 15 04:18	8° ∡ 07'42		evening set	8059 Apr 19 18:07	12° 8 09'36	
				max. Earth dist.	8059 May 01 00:30	14° 8 49'28	6.07103 AU
conjunction	8053 Nov 28 11:58	11° ≯ 00'32	0°49'43		8059 May 01 18:17	15° 8	
minimum elong	8053 Nov 28 11:58	11° ≯ 00'32	0°49'52				
max. Earth dist.	8053 Nov 29 02:43	11° ≯ 08'31	6.41891 AU	conjunction	8059 May 02 14:27	15° 8 11'58	
morning rise	8053 Dec 11 18:04	13° ≯ 52′22		minimum elong	8059 May 02 14:26	15° 8 11'57	0°43'38
	8054 Mar 20 02:21	0°ප		morning rise	8059 May 15 11:43	18° 8 15'06	
retrograde	8054 Apr 12 03:49	0° る 49'36			8059 Jul 08 08:51	$\Pi^{\circ}0$	
	8054 May 05 02:03	30°Ŗ ⋌ 7		retrograde	8059 Sep 21 15:02	7° Ⅱ 59'06	
opposition	8054 Jun 11 18:54	25° ≯ 52'33	1°10'33	opposition	8059 Nov 20 16:28	3° Ⅱ 02'39	
min. Earth dist.	8054 Jun 11 18:41	25° ≯ 52'37	4.46530 AU	min. Earth dist.	8059 Nov 21 07:26		3.99907 AU
direct	8054 Aug 12 18:39	20° ∡ 50'44			8059 Dec 15 16:14	30° ₹ 8	
	8054 Nov 06 03:22	0°る		direct	8060 Jan 19 00:39	28° 8 07'21	
evening set	8054 Dec 16 10:14	8° පි 07'01			8060 Feb 22 01:07	$\Pi^{\circ}0$	
		_		evening set	8060 May 24 07:40	17° Ⅱ 51'31	
conjunction	8054 Dec 29 12:42	10°පි54'57	0°44'18			_	
minimum elong	8054 Dec 29 12:43	10° る 54'58	0°44'27	conjunction	8060 Jun 06 09:33	21° Ⅱ 02'06	
max. Earth dist.	8054 Dec 28 23:01	10° る 47'38	6.49181 AU	minimum elong	8060 Jun 06 09:34	21° Ⅱ 02'06	0°48'56
morning rise	8055 Jan 11 12:45	13° る 41'46		max. Earth dist.	8060 Jun 06 04:43	20° ∏ 59'09	5.94542 AU
	8055 Apr 28 06:45	0° ≈		morning rise	8060 Jun 19 13:28	24° Ⅱ 13'58	
retrograde	8055 May 11 18:51	0° ≈ 17'05			8060 Jul 13 23:11	0°€	
	8055 May 25 07:05	30°₹ ⋜		retrograde	8060 Oct 29 08:17	14°955'02	
opposition	8055 Jul 11 16:51	25° る 22'49	0°53'46	opposition	8060 Dec 27 22:42	9° © 55'11	
min. Earth dist.	8055 Jul 12 11:09	25° ප 16'56	4.49747 AU	min. Earth dist.	8060 Dec 27 13:26	9° © 58'17	3.91522 AU
direct	8055 Sep 12 07:41	20° පි 21'07		direct	8061 Feb 24 04:28	5°900'53	
	8055 Dec 09 13:33	0° ≈		evening set	8061 Jun 30 18:34	25° © 05'35	
evening set	8056 Jan 15 17:41	7°≈33'46					
max. Earth dist.	8056 Jan 27 00:27	9° ≈ 59'17	6.48074 AU	conjunction	8061 Jul 14 03:55	28°921'20	
				minimum elong	8061 Jul 14 03:57	28°921'21	0°34'58
conjunction	8056 Jan 28 15:34		0°27'20	max. Earth dist.	8061 Jul 15 12:16	28°541'04	5.91174 AU
minimum elong	8056 Jan 28 15:35	10°≈20'23	0°27'27		8061 Jul 20 21:45	0°Ω	
morning rise	8056 Feb 10 11:22	13°≈06'04		morning rise	8061 Jul 27 15:49	1° Ω 38'26	
	8056 Feb 19 09:26	15° ≈			8061 Sep 26 05:11	15° Ω	
retrograde	8056 Jun 10 03:33	29°≈50'19		retrograde	8061 Dec 06 19:20	22° Ω 26'47	
opposition	8056 Aug 10 02:40	24°≈57'33	0°23'04	min. Earth dist.	8062 Feb 02 22:13		3.93669 AU
min. Earth dist.	8056 Aug 11 12:52	24°≈46'38	4.44415 AU	opposition	8062 Feb 04 04:53	17° £ 23'41	-0°32'41
direct	8056 Oct 11 19:08	19°≈56'28		1.	8062 Feb 22 16:07	15°R Ω	
. ,	8057 Jan 09 07:47	0°) {		direct	8062 Apr 03 02:15	12° Ω 28'19	
evening set	8057 Feb 14 02:11	7°) (27'31	C 20044 ATT		8062 May 12 06:48	15° Ω	
max. Earth dist.	8057 Feb 24 15:06	9°) 46′34	6.38844 AU		8062 Jul 29 02:35	0°M)	
agniumation	8057 Feb 26 21:16	10°) (16′27	0°02'52	evening set	8062 Aug 07 19:31	2° Mp 17'23	
conjunction				:	9062 Asse 21 10-21	50 m 20112	0907154
minimum elong	8057 Feb 26 21:17	10°) (16'28	0°02'55	conjunction	8062 Aug 21 10:21	5° Mp 32'13	
behind sun begin	8057 Feb 26 13:20	10° ★ 12'06 10° ★ 20'50		minimum elong	8062 Aug 21 10:21	5° Mp 32'13	0 00'38
behind sun end	8057 Feb 27 05:14			behind sun begin	8062 Aug 21 12:06	5° Mp 27'37	
morning rise	8057 Mar 11 14:49	13° ¥ 04'53		behind sun end	8062 Aug 21 18:06	5° Mp 36'50	5 00541 411
desc. node	8057 Apr 09 17:41	19° ¥ 16'32 0° Ƴ		max. Earth dist.	8062 Aug 23 18:07	6° Mp 05'30	5.98541 AU
ratrograda	8057 Jun 24 16:14	0° γ ' 0° Υ 28'21		morning rise	8062 Sep 04 03:23	8° Mp 47'53	
retrograde	8057 Jul 12 02:27			asc. node	8062 Nov 18 17:35	24° Mp 19'46	
annagiti	8057 Jul 29 13:13	30° ₹ ₩	0015115	retrograde	8063 Jan 12 03:32	28° Mp 49'42	4.05250 411
opposition	8057 Sep 10 23:32	25° ¥ 35'36		min. Earth dist.	8063 Mar 11 03:01	23° Mp 58'20	4.05359 AU
min. Earth dist.	8057 Sep 12 15:06	25°¥22'56	4.31800 AU	opposition	8063 Mar 12 17:39	23° Mp 45'11	0°12'59
direct	8057 Nov 11 23:32	20°) ₹35'54		direct	8063 May 10 05:14	18° Mp 47'23	
oveniet	8058 Feb 04 12:53	0°Υ 8°Υ45'00		avanis =t	8063 Aug 08 23:43	0° Ω 7° Ω 54'02	
evening set	8058 Mar 17 11:40	0 14500		evening set	8063 Sep 13 20:02	7° £ 54'03	

conjunction	8063 Sep 27 11:53	11° ≏ 02'22	0°22'45	max. Earth dist.	8069 Feb 28 23:08	14° ¥ 12'45	6.36996 AU
minimum elong	8063 Sep 27 11:52	11° ≏ 02'21	0°22'48			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
max. Earth dist.	8063 Sep 29 21:57	11° ≏ 35'46	6.13395 AU	conjunction	8069 Mar 03 05:02	14°) 42′38	-0°00'59
morning rise	8063 Oct 11 04:09	14° £ 10'35		minimum elong	8069 Mar 03 05:01	14°) 42′37	0°00'57
	8064 Jan 01 18:49	0° M .		behind sun begin	8069 Mar 02 21:02	14°) 38′13	
retrograde	8064 Feb 14 21:18	2°M59'09		behind sun end	8069 Mar 03 12:59	14°)(47'01	
-	8064 Mar 29 22:41	30° ₹ Ω		morning rise	8069 Mar 15 22:23	17°) € 31'42	
min. Earth dist.	8064 Apr 13 10:19	28° ≏ 06'52	4.21790 AU		8069 May 18 07:28	$0^{\circ}\mathbf{\Upsilon}$	
opposition	8064 Apr 14 18:33	27° ≏ 56'02	0°50'58	retrograde	8069 Jul 16 19:31	5° Y 02'44	
direct	8064 Jun 13 11:22	22° ≏ 56'02		opposition	8069 Sep 15 15:10	0° Y 09'53	-0°20'46
	8064 Aug 23 15:53	0°M			8069 Sep 16 22:00	30° ₹ ₩	
evening set	8064 Oct 17 19:12	11°ML13'20		min. Earth dist.	8069 Sep 17 07:20	29° ∺ 57'01	4.29697 AU
				direct	8069 Nov 16 13:14	25°) 10′25	
conjunction	8064 Oct 31 07:31	14°M12'54	0°43'12		8070 Jan 13 18:39	$0^{\circ}\mathbf{\Upsilon}$	
minimum elong	8064 Oct 31 07:29	14°M12'53	0°43'18	evening set	8070 Mar 22 00:37	13° Y 25'32	
max. Earth dist.	8064 Nov 01 22:37	14°M34'34	6.29996 AU	max. Earth dist.	8070 Apr 01 14:00	15° Y 50′32	6.21554 AU
	8064 Nov 03 20:29	15°M					
morning rise	8064 Nov 13 19:04	17°M11'46		conjunction	8070 Apr 03 18:58	16° Y 20′57	
	8065 Jan 18 09:03	0°⊀		minimum elong	8070 Apr 03 18:57	16° Ƴ 20'57	0°26'55
retrograde	8065 Mar 17 05:45	4° ₹ 51'39		morning rise	8070 Apr 16 13:00	19° Ƴ 16'31	
	8065 May 15 12:14	30°RM₊			8070 Jun 06 00:46	$0^{\circ}S$	
opposition	8065 May 16 13:35	29°M51'37	1°10'22	retrograde	8070 Aug 20 13:45	7° 8 54'33	
min. Earth dist.	8065 May 15 20:17	29°M57'20	4.37210 AU	opposition	8070 Oct 20 01:52	3° 8 00'16	
direct	8065 Jul 16 13:39	24°M50'16		min. Earth dist.	8070 Oct 21 09:24	• • • • •	4.13081 AU
	8065 Sep 15 15:15	0°⊀			8070 Nov 14 00:06	30° ₹Ƴ	
evening set	8065 Nov 19 13:31	12° ∡ ²27'38		direct	8070 Dec 19 16:30	28° Ƴ 03'01	
					8071 Jan 24 00:56	0° 8	
conjunction	8065 Dec 02 20:39	15° ₹ 19'45	0°49'45		8071 Apr 15 11:28	15° 8	
minimum elong	8065 Dec 02 20:39	15° ₹ 19'45	0°49'54	evening set	8071 Apr 24 13:56	17° 8 08'02	
max. Earth dist.	8065 Dec 03 08:13	15° х 26′00	6.43098 AU	max. Earth dist.	8071 May 06 01:38	19° 8 51'41	6.05172 AU
morning rise	8065 Dec 16 01:46	18° ∡ 10'47					
	8066 Feb 15 13:11	0°ಕ		conjunction	8071 May 07 10:51	20° 8 11'28	
retrograde	8066 Apr 16 06:14	5° る 04'07		minimum elong	8071 May 07 10:50	20° 8 11'28	0°45'26
opposition	8066 Jun 15 22:30	0° ろ 07'33	1°09'14	morning rise	8071 May 20 08:42	23° 8 15'45	
min. Earth dist.	8066 Jun 16 00:38	0° る 06'52	4.47187 AU		8071 Jun 18 16:10	$\Pi^{\circ 0}$	
	8066 Jun 16 21:46	30°₽ ∡ 7		retrograde	8071 Sep 26 23:38	13° Ⅱ 08'45	
direct	8066 Aug 17 00:44	25° ₹ 05'45		opposition	8071 Nov 25 22:20	8° Ⅱ 11'53	
	8066 Oct 16 04:40	0°ಕ		min. Earth dist.	8071 Nov 26 11:09	8° Ⅱ 07'39	3.98383 AU
evening set	8066 Dec 20 16:09	12° る 21'09		direct	8072 Jan 24 03:06	3° Ⅱ 16'47	
				evening set	8072 May 29 10:08	23° Ⅱ 05'06	
conjunction	8067 Jan 02 17:49	15° ⋜ 08'48	0°42'33				
minimum elong	8067 Jan 02 17:50	15° ⋜ 08'49	0°42'42	conjunction	8072 Jun 11 13:00	26° Ⅱ 16'36	
max. Earth dist.	8067 Jan 01 22:57	14°₹58'41	6.49243 AU	minimum elong	8072 Jun 11 13:01	26° Ⅱ 16'37	
morning rise	8067 Jan 15 17:23	17° る 55'23		max. Earth dist.	8072 Jun 11 12:53	26° I 16'32	5.93568 AU
	8067 Mar 20 16:03	0°≈		morning rise	8072 Jun 24 18:03	29° II 29'27	
retrograde	8067 May 16 00:07	4°≈31'00			8072 Jun 26 20:34	0°95	
***	8067 Jul 12 21:50	30°Rる	0050111	retrograde	8072 Nov 03 17:18	20°©14'27 15°©14'10	1002114
opposition	8067 Jul 15 21:33	29°る37'01	0°50'11	opposition	8073 Jan 02 06:45		
min. Earth dist.	8067 Jul 16 18:58 8067 Sep 16 14:05	29°る30'09 24°る35'19	4.49239 AU	min. Earth dist.	8073 Jan 01 17:48 8073 Mar 01 09:13	15°918'31	3.91237 AU
direct	8067 Sep 16 14:03 8067 Nov 19 05:20	24°€33°19 0°≈		direct			
avanina aat	8068 Jan 19 23:07	0 ≈ 11°≈50'01		avanina aat	8073 Jul 04 08:33 8073 Jul 06 00:55	0° Ω 0° Ω 24'25	
evening set max. Earth dist.	8068 Jan 31 03:39	11 ≈3001 14°≈14'40	6.47035 AU	evening set	80/3 Jul 00 00.33	0 862423	
max. Earm dist.	0000 Jan 31 03.39	14 201440	0.47033 AU	agniumation	8073 Jul 19 11:05	3° Ω 40'24	0021121
conjunction	8068 Feb 01 20:42	14° ≈ 36'52	0°24'13	conjunction minimum elong	8073 Jul 19 11:05 8073 Jul 19 11:07	3° Ω 40′24	
minimum elong	8068 Feb 01 20:42 8068 Feb 01 20:43	14 ≈36 52 14°≈36'52		max. Earth dist.	8073 Jul 20 22:13	4° Ω 01'48	5.91589 AU
minimum ciong	8068 Feb 01 20:43 8068 Feb 03 15:30	14 ≈30 32 15°≈	0 24 19	morning rise	8073 Aug 02 00:03	6° Ω 57'45	3.91369 AU
morning rise	8068 Feb 14 16:00	15°≈ 17°≈22'47		morning rise	8073 Sep 05 13:42	6°8€3/43 15° Ω	
morning rise	8068 Apr 21 10:55	1/3≈224/ 0°) {		retrograde	8073 Dec 11 22:38	13° δι 27° Ω 42'42	
retrograde	8068 Jun 14 11:10	0 X 4° ¥ 11'13		min. Earth dist.	8074 Feb 08 00:47		3.94727 AU
renograde	8068 Aug 09 00:53	4 X 1113 30°R≈		opposition	8074 Feb 08 00.47 8074 Feb 09 09:19	22° Ω 39'15	
opposition	8068 Aug 14 11:22	30 k≈ 29°≈18'29	0°17'56	direct	8074 Apr 08 07:33	22 δί 39 13 17° Ω 43'34	0 20 32
min. Earth dist.	8068 Aug 14 11:22 8068 Aug 15 21:42	29°≈18'29 29°≈07'31	4.42921 AU	uncci	8074 Apr 08 07:33 8074 Jul 11 09:21	0° Mp	
	8068 Aug 15 21:42 8068 Oct 16 01:24	29°≈0/31 24°≈17'33	4.42921 AU	avaning sat			
direct	8068 Oct 16 01:24 8068 Dec 20 01:18	24°≈1/33 0° ∺		evening set	8074 Aug 13 00:48	7° Mp 28′27	
desc. node	8068 Dec 20 01:18 8069 Feb 16 22:53	11° H 33'43		conjunction	8074 Aug 26 16:14	10° m 42'45	0.00212.5
evening set	8069 Feb 18 10:11	11° X 53'43		minimum elong	8074 Aug 26 16:14 8074 Aug 26 16:14	10 m/42 43 10° m/42'45	
o venning set	5007100 10 10.11	11 /(3304		mmingin ciong	507 1 1 1 ug 20 10.14	ı viy⊤∠⊤J	0 02 37

behind sun begin	8074 Aug 26 07:52	10° m 37'48		max. Earth dist.	8080 Feb 04 05:32	18° ≈ 30'06	6.46577 AU
behind sun end	8074 Aug 20 07:32 8074 Aug 27 00:37	10° m) 47'43		max. Earth dist.	8080 Feb 04 03.32	10 ~30 00	0.40377 AU
max. Earth dist.	8074 Aug 27 00:37 8074 Aug 29 02:22	10 mg 4743 11°mg 17'18	6.00146 AU	conjunction	8080 Feb 06 01:18	18° ≈ 53'48	0°21'03
	•		0.00140 AU		8080 Feb 06 01:18	18°≈53'48	0°21'09
morning rise	8074 Sep 09 09:21	13° Mp 57'42		minimum elong			0 21 09
asc. node	8074 Sep 28 13:11	18° m 23'40		morning rise	8080 Feb 18 20:15	21°≈39'44	
	8074 Nov 27 22:40	0∘ ʊ			8080 Mar 30 18:17	0°) (20120	
retrograde	8075 Jan 17 01:04	3° Ω 50'51		retrograde	8080 Jun 18 19:47	8°) €30'38	
	8075 Mar 08 12:10	30°R, Mp		opposition	8080 Aug 18 19:34	3°) € 37'58	0°12'52
min. Earth dist.	8075 Mar 16 00:58	28° m 59'18	4.07315 AU	min. Earth dist.	8080 Aug 20 07:53	3°) €26′22	4.42020 AU
opposition	8075 Mar 17 14:48	28° Mp 46'28	0°19'06		8080 Sep 19 18:24	30° R ≈	
direct	8075 May 15 06:06	23° m 48'22		direct	8080 Oct 20 10:09	28° ≈ 37'10	
	8075 Jul 18 23:30	0∘ ⊽			8080 Nov 20 01:51	0° ∀	
evening set	8075 Sep 18 20:12	12° ≏ 48'58		desc. node	8080 Dec 29 11:35	5° ∺ 11'13	
				evening set	8081 Feb 22 16:10	16° 光 15′05	
conjunction	8075 Oct 02 11:44	15° ≏ 56'13	0°26'20	max. Earth dist.	8081 Mar 05 04:02	18°) 34′34	6.35713 AU
minimum elong	8075 Oct 02 11:43	15° ≏ 56'12	0°26'22				
max. Earth dist.	8075 Oct 04 20:01	16° ≏ 28'25	6.15515 AU	conjunction	8081 Mar 07 10:47	19° ₩ 05'01	-0°04'38
morning rise	8075 Oct 16 03:43	19° ഫ 03'18		minimum elong	8081 Mar 07 10:47	19°) €05'00	0°04'35
	8075 Dec 07 06:58	0° M ₊		behind sun begin	8081 Mar 07 02:58	19°) 00'41	
retrograde	8076 Feb 19 08:57	7° M 42'25		behind sun end	8081 Mar 07 18:35	19° 米 09'19	
min. Earth dist.	8076 Apr 18 00:51	2°M50'11	4.23893 AU	morning rise	8081 Mar 20 03:56	21°) 54'30	
opposition	8076 Apr 19 08:08	2°M39'41	0°54'55		8081 Apr 27 13:13	0° Y	
	8076 May 10 08:01	30° ŖΩ		retrograde	8081 Jul 21 07:10	9° Ƴ 31'22	
direct	8076 Jun 18 04:21	27° م 39'30		opposition	8081 Sep 20 03:51	4° Ƴ 38'20	-0°25'54
	8076 Jul 27 09:35	0° M ₊		min. Earth dist.	8081 Sep 21 18:59	4° Y 25'48	4.28099 AU
	8076 Oct 18 14:44	15° ™			8081 Nov 05 22:44	30°R ∀	
evening set	8076 Oct 22 12:26	15° M 51'18		direct	8081 Nov 20 22:06	29°) 39′05	
3					8081 Dec 05 22:47	0°Υ	
conjunction	8076 Nov 05 00:10	18° M .49'48	0°44'59	evening set	8082 Mar 26 10:19	17° Y 58'43	
minimum elong	8076 Nov 05 00:09	18° M 49'48	0°45'06	max. Earth dist.	8082 Apr 06 01:20		6.19757 AU
max. Earth dist.	8076 Nov 06 12:04	19°M09'38	6.31940 AU	man. Barar and.	000211p1 00 01.20	20 , 20 10	0.19707110
morning rise	8076 Nov 18 10:49	21°M47'31	0.51710710	conjunction	8082 Apr 08 04:42	20° Y 54'53	-0°29'55
morning rise	8076 Dec 27 21:26	0° √		minimum elong	8082 Apr 08 04:41	20°Υ54'52	
retrograde	8077 Mar 21 13:53	9° × ⁷ 20'07		morning rise	8082 Apr 20 22:55	23° Υ 51'16	0 2730
opposition	8077 May 20 21:56	4° ₹ 20'40	1°11'25	morning risc	8082 May 18 11:52	0° 8	
min. Earth dist.	8077 May 20 21:30 8077 May 20 07:19	4°× ⁷ 25'29	4.38870 AU	retrograde	8082 Aug 25 11:25	12° 8 37'48	
iiiii. Eartii tiist.	8077 Jun 30 04:25	4 x 23 29 30°RM	4.36670 AU	opposition	8082 Oct 24 21:08	7° 8 43'13	0°50'25
Ji		29°M₁9'19				7° 8 33'06	
direct	8077 Jul 21 02:29	29°االہ19°19 0° ح ا		min. Earth dist.	8082 Oct 26 04:17	2° 8 46'10	4.11193 AU
	8077 Aug 11 04:18			direct	8082 Dec 24 08:41	_	
evening set	8077 Nov 24 00:55	16° ∡ 52'53		. ,	8083 Mar 29 21:15	15° 8	
	0055	100 3 4 4 4 4	0040100	evening set	8083 Apr 29 05:27	21° 8 56'45	C 022 C1 1 XX
conjunction	8077 Dec 07 07:12	19° ∡ ⁴44'11	0°49'32	max. Earth dist.	8083 May 10 19:53	24° 8 42'40	6.03361 AU
minimum elong	8077 Dec 07 07:12	19° ∡ ′44′11	0°49'40				
max. Earth dist.	8077 Dec 07 14:23	19° √ 48'04	6.44380 AU	conjunction	8083 May 12 02:58	25° 8 01'15	
morning rise	8077 Dec 20 11:35	22° ∡ ′34′26		minimum elong	8083 May 12 02:58	25° 8 01'15	0°46'49
	8078 Jan 25 19:05	0° ろ		morning rise	8083 May 25 01:38	28° 8 06'41	
retrograde	8078 Apr 20 10:48	9° ප 23'35			8083 Jun 02 01:20	$\Pi^{\circ}0$	
opposition	8078 Jun 20 04:03	4° る 27'28	1°07'32	retrograde	8083 Oct 02 01:22	18° ∏ 08′22	
min. Earth dist.	8078 Jun 20 08:27	4° る 26'02	4.48061 AU	opposition	8083 Nov 30 23:32	13° Ⅱ 11'05	
	8078 Aug 01 22:05	30°₽ ⋌		min. Earth dist.	8083 Dec 01 09:14	13° ∏ 07'53	3.96834 AU
direct	8078 Aug 21 08:43	29° ∡ 25'41		direct	8084 Jan 28 23:06	8° Ⅱ 16′09	
	8078 Sep 09 23:47	0°ಕ		evening set	8084 Jun 03 08:47	28° Ⅱ 09'09	
evening set	8078 Dec 24 23:19	16° る 39'19			8084 Jun 10 22:56	0 \circ \odot	
max. Earth dist.	8079 Jan 06 04:06	19° る 15'41	6.49682 AU				
				conjunction	8084 Jun 16 12:33	1° © 21'38	
conjunction	8079 Jan 07 00:26	19° る 26'34	0°40'34	minimum elong	8084 Jun 16 12:34	1° 5 21'38	0°46'57
minimum elong	8079 Jan 07 00:27	19° る 26'35	0°40'43	max. Earth dist.	8084 Jun 16 15:35	1° 5 23'29	5.92429 AU
morning rise	8079 Jan 19 23:07	22° る 12'42		morning rise	8084 Jun 29 18:47	4° © 35'33	
	8079 Feb 27 11:04	0° ≈		retrograde	8084 Nov 08 22:30	25° © 25'24	
retrograde	8079 May 20 03:51	8° ≈ 47'21		opposition	8085 Jan 07 10:46	20° 5 24'37	-0°59'36
opposition	8079 Jul 20 03:06	3° ≈ 53'40	0°46'22	min. Earth dist.	8085 Jan 06 19:16	20° © 29'51	3.90636 AU
min. Earth dist.	8079 Jul 21 01:45	3° ≈ 46′25	4.49230 AU	direct	8085 Mar 06 11:44	15° © 30'10	
	8079 Aug 24 03:09	30°R₹			8085 Jun 17 13:21	$0^{\circ}\Omega$	
direct	8079 Sep 20 20:16	28°る52'08		evening set	8085 Jul 11 04:31	5° Ω 36′13	
	8079 Oct 18 17:58	0° ≈					
	8080 Jan 18 22:58	15° ≈		conjunction	8085 Jul 24 15:54	8° Ω 52'43	-0°28'06
evening set	8080 Jan 24 04:26	16° ≈ 07'02		minimum elong	8085 Jul 24 15:56	8° Ω 52'44	0°28'12
				-			

direct	8097 Mar 11 20:33	20° © 58'27	
	8097 May 28 19:20	0°Ω	
evening set	8097 Jul 16 14:42	11° Ω 03'58	
conjunction	8097 Jul 30 02:52	14° Ω 20'35	-0°24'13
minimum elong	8097 Jul 30 02:53	14°Ω20'35	0°24'20
-			
max. Earth dist.	8097 Jul 31 22:41	14° Ω 47'11	5.92271 AU
	8097 Aug 01 19:48	15° Ω	
morning rise	8097 Aug 12 17:41	17° Ω 38'25	
	8097 Oct 07 09:39	0° m	
retrograde	8097 Dec 22 07:33	8° M 16'19	
min. Earth dist.	8098 Feb 18 05:33	3° Mp 24'42	3.96803 AU
opposition	8098 Feb 19 17:50	3° mp 12'22	-0°13'50
11	8098 Mar 17 12:15	30°R Ω	
direct	8098 Apr 18 17:18	28°Ω16'06	
direct	8098 May 21 00:55	0° m	
,		•	
asc. node	8098 Jun 18 14:41	3° m 58′00	
evening set	8098 Aug 23 12:48	17° m 52'49	
conjunction	8098 Sep 06 04:50	21° m 05'53	0°06'07
•	•		0°06'06
minimum elong	8098 Sep 06 04:49	21° Mp 05'52	0-0606
behind sun begin	8098 Sep 05 20:52	21°Mp01'12	
behind sun end	8098 Sep 06 12:45	21°M/10'32	
max. Earth dist.	8098 Sep 08 16:47	21°Mp41'12	6.03403 AU
morning rise	8098 Sep 19 22:21	24° Mp 19'21	
	8098 Oct 14 20:51	0∘ ত	
retrograde	8099 Jan 26 17:31	13° £ 54'33	
min. Earth dist.	8099 Mar 25 19:18	9° ₽ 03'03	4.11377 AU
opposition	8099 Mar 27 08:59	8° £ 50'16	0°30'41
			0 3041
direct	8099 May 25 07:33	3° £ 51'27	
evening set	8099 Sep 28 20:37	22° ≏ 39'06	
conjunction	8099 Oct 12 11:32	25° ≏ 44'01	0°32'49
minimum elong	8099 Oct 12 11:30	25° Ω 44'01	0°32'52
max. Earth dist.	8099 Oct 14 17:24	26° £ 14'33	6.20028 AU
		28° <u>Ω</u> 48'32	0.20028 AU
morning rise	8099 Oct 26 02:14		
	8099 Oct 31 10:02	0°M,	
	8100 Jan 22 08:57	15°M	
retrograde	8100 Feb 28 09:06	17° M 07'36	
	8100 Apr 06 05:25	15°RM₊	
min. Earth dist.	8100 Apr 28 06:41	12°M14'59	4.28427 AU
opposition	8100 Apr 29 10:55	12°M05'33	1°01'33
direct	8100 Jun 28 15:45	7°M04'53	
	8100 Sep 13 09:33	15° ™	
evening set	8100 Nov 01 21:39	25°M03'59	
evening sec	01001107 01 21.57	23 11003 37	
conjunction	8100 Nov 15 07:48	28°ML00'07	0°47'37
minimum elong	8100 Nov 15 07:47	28°MJ00'07	0°47'44
max. Earth dist.	8100 Nov 16 12:22	28°M15'46	6.36124 AU
	8100 Nov 24 10:59	0° ∡ ″	
morning rise	8100 Nov 28 16:44	0° ₹ 55'22	
retrograde	8101 Mar 31 02:10	18° ₹ 12'16	
-			1012100
opposition	8101 May 30 13:01	13° ∡ 13'38	1°12'08
min. Earth dist.	8101 May 30 03:32	13° ∡ 16'45	4.42391 AU
direct	8101 Jul 31 01:42	8° √ 11'59	
evening set	8101 Dec 03 20:37	25° ∡ ³36'45	
aoniunation	8101 Dec 17 01:23	28° ₹ 26'26	0040110
conjunction			0°48'10
minimum elong	8101 Dec 17 01:24	28° ₹ 26'26	0°48'20
max. Earth dist.	8101 Dec 17 01:01	28° ∡ 26'14	6.46954 AU
	8101 Dec 24 07:45	0°ಕ	
morning rise	8101 Dec 30 03:59	1° る 14'59	