superior conj minimum elong	8100 May 08 10:36 8100 May 08 15:59 8100 May 13 10:19	21° 8 10'58 21° 8 34'23 0° II 10° II 55'53		morning set max. Earth dist.	8101 Apr 03 13:36 8101 Apr 13 04:43 8101 Apr 18 08:35	6° Y 27'31 21° Y 37'03 0° ႘	1.43726 AU
evening rise asc. node	8100 May 19 10:42 8100 May 24 10:42 8100 May 30 10:29	10 Д3333 20°Д00'03 0°©		superior conj minimum elong	8101 Apr 19 07:27 8101 Apr 19 09:10	1° 8 34'13 1° 8 41'17	
evening max el retrograde	8100 Jun 04 17:48 8100 Jun 11 14:57	6°543'48 10°512'39	18°09'47	evening rise	8101 May 01 22:38 8101 May 05 22:15	23° ႘ 04'12 0°Ⅱ	
evening set inferior conj	8100 Jun 14 01:29 8100 Jun 20 23:59	9° © 46'57 4° © 57'55	1°59'52	asc. node evening max el	8101 May 11 07:45 8101 May 19 06:46	9° Ⅱ 05'52 19° Ⅱ 55'03	18°06'25
minimum elong min. Earth dist.	8100 Jun 21 03:02 8100 Jun 24 08:11	4° © 50'59 1° © 57'31	1°58'50 0.59944 AU	retrograde evening set	8101 May 25 17:16 8101 May 28 11:15	23° Ⅱ 15'40 22° Ⅱ 38'03	
mamina risa	8100 Jun 26 19:41 8100 Jun 28 01:43	30°RⅡ 29°Ⅱ10'30		inferior conj	8101 Jun 03 18:48 8101 Jun 03 21:26	17° Ⅲ 29'23 17° Ⅲ 22'32	2°49'11 2°48'30
morning rise desc. node	8100 Jun 28 01:43 8100 Jun 28 06:42	29° I 10'30' 29° I 10'30'		minimum elong min. Earth dist.	8101 Jun 06 17:20	17 H 22 32 14° H 27'40	0.62182 AU
direct	8100 Jul 04 13:03	27° Ⅱ 11'03		morning rise	8101 Jun 10 05:46	11° Ⅱ 24'12	***************************************
	8100 Jul 12 17:36	0 \circ \odot		desc. node	8101 Jun 15 03:43	9° Ⅱ 08'32	
morning max el	8100 Jul 18 21:25	5° © 05'29	27°41'46	direct	8101 Jun 16 23:54	8°II57'58	27055102
morning set	8100 Aug 06 09:35 8100 Aug 19 21:29	0°Ω 25°Ω19'12		morning max el	8101 Jul 01 02:55 8101 Jul 11 21:19	16° Ⅱ 59'40 0° ©	27°55'03
asc. node	8100 Aug 20 10:05	26° Ω 25'07			8101 Jul 30 03:00	0°N	
	8100 Aug 22 02:36	0° m		morning set	8101 Aug 03 22:17	9° Ω 27'42	
max. Earth dist.	8100 Aug 26 03:58	8° m 50'42	1.31704 AU	asc. node	8101 Aug 07 07:03	16° Ω 27'39	
	0100 4 27 01 22	100 m- 40152	1002120	max. Earth dist.	8101 Aug 09 10:47	21° Ω 04'30	1.32145 AU
superior conj minimum elong	8100 Aug 27 01:32 8100 Aug 26 23:19	10° mp 49'53 10° mp 37'38	1°03'20 1°02'53	superior conj	8101 Aug 11 10:58	25° Ω 26'29	0°41'23
evening rise	8100 Sep 02 19:31	25° m 38'08	1 02 33	minimum elong	8101 Aug 11 09:13	25°Ω16'54	0°40'57
8 11	8100 Sep 04 21:09	0∘ ⊽			8101 Aug 13 12:52	0° m p	
	8100 Sep 22 03:21	0° M		evening rise	8101 Aug 18 06:55	10° m 20'49	
desc. node	8100 Sep 24 05:38	2°M45'47			8101 Aug 28 06:31	0∘ ত	
evening max el	8100 Sep 30 14:35	9°M51'40 16°M55'04	25°46'46	desc. node	8101 Sep 11 02:43	19° £ 22'48 20° £ 25'17	24°16'39
retrograde evening set	8100 Oct 14 13:01 8100 Oct 20 17:50	15°M24'44		evening max el retrograde	8101 Sep 12 03:54 8101 Sep 25 21:51	20 ≗ 23 17 27° ₽ 19'03	24 10 39
min. Earth dist.	8100 Oct 25 03:08	12°M48'40	0.58153 AU	evening set	8101 Sep 30 21:20	26° ≙ 24'22	
inferior conj	8100 Oct 28 05:25	10°M36'36	-5°06'34	min. Earth dist.	8101 Oct 06 14:45	23° ≏ 31'38	0.56342 AU
minimum elong	8100 Oct 28 11:32	10°M25'41	5°05'27	inferior conj	8101 Oct 09 01:38	22° ♀ 00'05	
morning rise	8100 Nov 05 07:34	6°M15'04		minimum elong	8101 Oct 09 02:34		5°33'34
direct morning max el	8100 Nov 07 15:32 8100 Nov 16 03:10	5°M57'49 10°M03'19	18°43'26	morning rise direct	8101 Oct 17 09:56 8101 Oct 20 02:02	17° ♀ 59'36 17° ♀ 40'44	
asc. node	8100 Nov 16 09:37	10°M19'03	10 43 20	morning max el	8101 Oct 29 22:12	22° ₽ 19'10	19°42'55
	8100 Nov 29 05:21	0° ∡ 7		asc. node	8101 Nov 03 06:37	27° ≙ 17'47	
morning set	8100 Dec 02 09:44	6° ₰ 08'18			8101 Nov 05 04:31	0° M	
	0100 D 11 01 00	220 750127	1010145	morning set	8101 Nov 16 13:11	20°M39'35	
superior conj minimum elong	8100 Dec 11 01:08 8100 Dec 11 04:30	22° х 50'37 23° х 06'30	1°10'45 1°10'28		8101 Nov 21 03:46	0° ∡ 7	
minimum ciong	8100 Dec 14 21:52	0°る	1 10 20	superior conj	8101 Nov 24 09:53	6° ∡ ³31'01	1°28'52
max. Earth dist.	8100 Dec 18 06:02	5° る 58'27	1.39637 AU	minimum elong	8101 Nov 24 12:23	6° х¹ 43'23	1°28'47
desc. node	8100 Dec 21 04:37	11° ろ 04'10		max. Earth dist.	8101 Nov 30 11:54	18° ∡ 12'42	1.37485 AU
evening rise	8100 Dec 22 06:39	12°る54'41		evening rise	8101 Dec 04 05:36	25° ₹ 01'05	
	8101 Jan 01 22:10 8101 Jan 24 06:07	0° ∺		desc. node	8101 Dec 07 01:51 8101 Dec 08 01:39	0°궁 1° 궁 41'55	
evening max el	8101 Jan 26 07:10	2° ₩ 07'20	24°07'39	dese. Hode	8101 Dec 26 13:16	0°≈	
retrograde	8101 Feb 06 11:14	8°) 40'49		evening max el	8102 Jan 08 20:21	15° ≈ 54'43	25°23'04
evening set	8101 Feb 11 18:39	6°) €28'06		retrograde	8102 Jan 20 23:30	22° ≈ 54'14	
asc. node	8101 Feb 12 08:47	5°) ₹56'28	0.60140.411	evening set	8102 Jan 26 19:47	20°≈29'16	
min. Earth dist.	8101 Feb 16 11:45 8101 Feb 17 06:15	1°) €02'30 29°≈59'57	0.68140 AU 1°33'03	asc. node min. Earth dist.	8102 Jan 30 05:50 8102 Jan 31 05:35	16°≈52'55 15°≈38'22	0.67489 AU
minimum elong	8101 Feb 17 00:13 8101 Feb 17 04:20	0° ∺ 06'27	1°32'26	inferior conj	8102 Feb 01 11:28	13 ≈38 22 14°≈01'58	0.07489 AU 0°44'05
8	8101 Feb 17 06:14	30° R ≈		minimum elong	8102 Feb 01 10:24	14°≈05'25	0°43'45
morning rise	8101 Feb 22 14:03	23° ≈ 57'39		morning rise	8102 Feb 07 01:21	8° ≈ 07'40	
direct	8101 Feb 26 13:01	22°≈28'35	20010:22	direct	8102 Feb 10 12:09	6°≈59'13	1001-00
morning max el	8101 Mar 06 08:37 8101 Mar 09 04:47	26°≈54'29 0°) €	20°19'22	morning max el greatest brilliancy	8102 Feb 17 13:03 8102 Mar 02 15:36	10°≈52'26 28°≈16'45	19°17'00
desc. node	8101 Mar 19 04:47 8101 Mar 19 04:10	13° ¥ 20'31		greatest binilancy	8102 Mar 02 15:36 8102 Mar 03 19:05	28°≈1645 0° ∺	-U. / III
	8101 Mar 30 08:40	0° Υ		desc. node	8102 Mar 06 01:08	3° ∺ 24'48	

morning set	8102 Mar 13 13:28	14° ¥ 57′21		transit begin	8103 Jan 16 10:29	28° පි 03'54	
	8102 Mar 23 05:45	0° Υ		transit end	8103 Jan 16 14:15	27° る 52'29	
max. Earth dist.	8102 Mar 26 19:24	5° Ƴ 36′22	1.44961 AU	asc. node	8103 Jan 17 02:54	27° る 14'30	
				morning rise	8103 Jan 22 10:17	22°る15'07	
superior conj	8102 Mar 30 04:14	10° Y 56'16 10° Y 35'44		direct	8103 Jan 25 10:28	21° る 24'16	10020122
minimum elong	8102 Mar 29 23:04 8102 Apr 10 23:01	0° 8	2*06*19	morning max el	8103 Feb 01 00:23 8103 Feb 05 07:29	24°る57'20 0°≈	18°30'33
evening rise	8102 Apr 13 13:12	4° 8 16'42		desc. node	8103 Feb 20 22:04	0 ≈ 23°≈45'48	
asc. node	8102 Apr 28 04:47	27° 8 41'54		morning set	8103 Feb 21 10:24	24°≈34'39	
	8102 Apr 29 21:55	0°II			8103 Feb 24 20:36	0°) €	
evening max el	8102 May 02 19:51	3° Ⅱ 20′54	18°21'38				
retrograde	8102 May 09 05:46	6° Ⅱ 47'43		superior conj	8103 Mar 09 09:58	19°) 43′46	-1°41'47
evening set	8102 May 12 06:55	5° Ⅱ 56'46		minimum elong	8103 Mar 09 00:24	19°) €06'21	1°40'53
inferior conj	8102 May 18 03:32	0°Ⅱ29'58	3°15'36	max. Earth dist.	8103 Mar 09 14:04	19° ⊁ 59'52	1.45492 AU
minimum elong	8102 May 18 04:57	0° Ⅱ 25'53	3°15'19		8103 Mar 15 23:15	0°Υ	
	8102 May 18 13:51	30°₽ 8		evening rise	8103 Mar 25 04:11	14° Y 31′26	
min. Earth dist.	8102 May 20 11:48	27° 8 47'48	0.64221 AU	greatest brilliancy	8103 Apr 03 07:39	28° Y 59'02	-0.8m
morning rise	8102 May 24 01:58	24° 8 15'33			8103 Apr 03 23:17	0° と 15° と 38'07	
direct desc. node	8102 May 30 19:11 8102 Jun 02 00:43	21° 8 33'02 21° 8 49'02		asc. node evening max el	8103 Apr 15 01:51 8103 Apr 16 06:21	16° 8 54'12	18°54'41
morning max el	8102 Jun 13 12:17	29° 8 32'26	27°31'41	retrograde	8103 Apr 23 00:29	20° 8 39'59	16 3441
morning max or	8102 Jun 13 23:07	0°II	2, 31 11	evening set	8103 Apr 26 09:00	19° 8 34'55	
	8102 Jul 05 19:48	0°95		inferior conj	8103 May 01 22:22	13° 8 51'44	3°24'02
morning set	8102 Jul 18 15:08	23° © 10'32		minimum elong	8103 May 01 22:25	13° 8 51'33	3°23'55
	8102 Jul 22 00:31	$0^{\circ}\Omega$		min. Earth dist.	8103 May 03 15:15	11° 8 43'16	0.65908 AU
max. Earth dist.	8102 Jul 23 10:38	2° Ω 56′26	1.33062 AU	morning rise	8103 May 07 11:20	7° 8 33'54	
asc. node	8102 Jul 25 04:02	6° Ω 33'45		direct	8103 May 13 21:41	4° 8 47'05	
				desc. node	8103 May 19 21:43	6° 8 43'03	
superior conj	8102 Jul 26 16:25	9° Ω 47'15	0°15'22	morning max el	8103 May 26 22:52	12° 8 32'01	26°37'35
minimum elong	8102 Jul 26 15:40	9° Ω 43'14	0°15'05		8103 Jun 09 23:13	0°II	
behind sun begin behind sun end	8102 Jul 26 13:51 8102 Jul 26 17:29	9° Ω 33'30 9° Ω 52'58		morning set	8103 Jun 28 11:10 8103 Jul 01 20:48	0°ତ 6°ତ18'18	
evening rise	8102 Jul 20 17:29 8102 Aug 02 18:23	25°Ω00'20		max. Earth dist.	8103 Jul 06 00:16	14°920'18	1.34458 AU
evening rise	8102 Aug 05 03:38	0°m)		max. Earth dist.	0103 341 00 00.10	14 320 10	1.54450710
	8102 Aug 24 00:28	0∘ ರ ∘ .ಚ		superior conj	8103 Jul 10 15:36	23°5945'11	-0°14'01
evening max el	8102 Aug 24 15:45	0° ჲ 38'08	22°37'18	minimum elong	8103 Jul 10 16:23	23°549'14	0°13'59
desc. node	8102 Aug 28 23:47	4° £ 12'45		behind sun begin	8103 Jul 10 13:30	23° © 34'18	
retrograde	8102 Sep 06 18:19	7° ≏ 10'30		behind sun end	8103 Jul 10 19:17	24°504'11	
evening set	8102 Sep 10 05:30	6° £ 44'07		asc. node	8103 Jul 12 01:01	26° © 38'55	
min. Earth dist.	8102 Sep 17 23:07		0.55098 AU		8103 Jul 13 15:24	0°Ω	
inferior conj	8102 Sep 19 03:30	2° £ 37'52		evening rise	8103 Jul 18 03:56	9° Ω 30'06	
minimum elong	8102 Sep 18 21:01	2° Ω 47'06	5°12'48	avanina may al	8103 Jul 28 23:33	0°Mp 11°Mp06'17	2190456
morning rise	8102 Sep 24 04:23 8102 Sep 27 14:27	30°R Mp 28° Mp 49'39		evening max el desc. node	8103 Aug 06 11:11	-•	21 04 36
direct	8102 Sep 27 14:27 8102 Sep 30 18:42	28° m) 26'35			X 1 0 3 A 110 15 70:51	16° IIn 43' 79	
	•				8103 Aug 15 20:51 8103 Aug 18 07:13	16° Mp 43'29 16° Mp 58'03	
morning max el	8102 Oct 06 22:48	0∘ <u>⊽</u>		retrograde	8103 Aug 18 07:13	16° m 58'03	
	8102 Oct 06 22:48 8102 Oct 12 04:21	-	21°04'30		Ü	-	-3°59'07
asc. node		0∘ ত	21°04'30	retrograde evening set	8103 Aug 18 07:13 8103 Aug 20 14:05	16° Mp 58'03 16° Mp 45'46	
asc. node	8102 Oct 12 04:21	0° ჲ 3° ჲ 46′52	21°04'30	retrograde evening set inferior conj	8103 Aug 18 07:13 8103 Aug 20 14:05 8103 Aug 29 20:09	16° Mp 58'03 16° Mp 45'46 12° Mp 48'37	
asc. node morning set	8102 Oct 12 04:21 8102 Oct 21 03:36	0° ჲ 3° ჲ 46'52 15° ჲ 12'00	21°04'30	retrograde evening set inferior conj minimum elong	8103 Aug 18 07:13 8103 Aug 20 14:05 8103 Aug 29 20:09 8103 Aug 29 10:40 8103 Aug 30 08:04 8103 Sep 07 07:41	16° m/58'03 16° m/45'46 12° m/48'37 13° m/02'00 12° m/31'47 8° m/53'43	3°56'25
morning set	8102 Oct 12 04:21 8102 Oct 21 03:36 8102 Oct 29 06:14 8102 Oct 31 21:24	0° Ω 3° Ω 46'52 15° Ω 12'00 0° M 5° M 22'49		retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8103 Aug 18 07:13 8103 Aug 20 14:05 8103 Aug 29 20:09 8103 Aug 29 10:40 8103 Aug 30 08:04 8103 Sep 07 07:41 8103 Sep 11 02:42	16° m 58'03 16° m 45'46 12° m 48'37 13° m 02'00 12° m 31'47 8° m 53'43 8° m 22'51	3°56'25 0.54690 AU
morning set superior conj	8102 Oct 12 04:21 8102 Oct 21 03:36 8102 Oct 29 06:14 8102 Oct 31 21:24 8102 Nov 08 05:40	0° £ 3° £46'52 15° £12'00 0° M 5° M22'49 20° M42'36	1°38'47	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8103 Aug 18 07:13 8103 Aug 20 14:05 8103 Aug 29 20:09 8103 Aug 29 10:40 8103 Aug 30 08:04 8103 Sep 07 07:41 8103 Sep 11 02:42 8103 Sep 23 23:08	16° my 58'03 16° my 45'46 12° my 48'37 13° my 02'00 12° my 31'47 8° my 53'43 8° my 22'51 14° my 30'17	3°56'25
morning set	8102 Oct 12 04:21 8102 Oct 21 03:36 8102 Oct 29 06:14 8102 Oct 31 21:24 8102 Nov 08 05:40 8102 Nov 08 06:51	0°	1°38'47	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	8103 Aug 18 07:13 8103 Aug 20 14:05 8103 Aug 29 20:09 8103 Aug 29 10:40 8103 Aug 30 08:04 8103 Sep 07 07:41 8103 Sep 11 02:42 8103 Sep 23 23:08 8103 Oct 05 19:33	16° my 58'03 16° my 45'46 12° my 48'37 13° my 02'00 12° my 31'47 8° my 53'43 8° my 22'51 14° my 30'17 0° Ω	3°56'25 0.54690 AU
morning set superior conj minimum elong	8102 Oct 12 04:21 8102 Oct 21 03:36 8102 Oct 29 06:14 8102 Oct 31 21:24 8102 Nov 08 05:40 8102 Nov 08 06:51 8102 Nov 12 19:59	0° £ 3° £46'52 15° £12'00 0° M 5° M22'49 20° M42'36 20° M48'45 0° ₹	1°38'47 1°38'51	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	8103 Aug 18 07:13 8103 Aug 20 14:05 8103 Aug 29 20:09 8103 Aug 29 10:40 8103 Aug 30 08:04 8103 Sep 07 07:41 8103 Sep 11 02:42 8103 Sep 23 23:08 8103 Oct 05 19:33 8103 Oct 08 00:36	16° my 58'03 16° my 45'46 12° my 48'37 13° my 02'00 12° my 31'47 8° my 53'43 8° my 22'51 14° my 30'17 0° Ω 3° Ω 48'41	3°56'25 0.54690 AU
morning set superior conj minimum elong max. Earth dist.	8102 Oct 12 04:21 8102 Oct 21 03:36 8102 Oct 29 06:14 8102 Oct 31 21:24 8102 Nov 08 05:40 8102 Nov 08 06:51 8102 Nov 12 19:59 8102 Nov 12 21:25	0° \$\Pi\$ 3° \$\Pi\$ 46'52 15° \$\Pi\$ 12'00 0° \$\mathbb{M}\$. 5° \$\mathbb{M}\$ 22'49 20° \$\mathbb{M}\$ 48'45 0° \$\struct \text{7}\$ 00'7'06	1°38'47	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	8103 Aug 18 07:13 8103 Aug 20 14:05 8103 Aug 29 20:09 8103 Aug 29 10:40 8103 Aug 30 08:04 8103 Sep 07 07:41 8103 Sep 11 02:42 8103 Sep 23 23:08 8103 Oct 05 19:33 8103 Oct 08 00:36 8103 Oct 16 08:17	16° my 58'03 16° my 45'46 12° my 48'37 13° my 02'00 12° my 31'47 8° my 53'43 8° my 22'51 14° my 30'17 0° Ω 3° Ω 48'41 20° Ω 12'03	3°56'25 0.54690 AU
morning set superior conj minimum elong max. Earth dist. evening rise	8102 Oct 12 04:21 8102 Oct 21 03:36 8102 Oct 29 06:14 8102 Oct 31 21:24 8102 Nov 08 05:40 8102 Nov 08 06:51 8102 Nov 12 19:59 8102 Nov 12 21:25 8102 Nov 16 22:52	0° \(\oldsymbol{\Omega}\) 3° \(\oldsymbol{\Omega}\) 40° \(\oldsymbol{\Omega}\) 5° \(\oldsymbol{\Omega}\) 20° \(\oldsymbol{\Omega}\) 20° \(\oldsymbol{\Omega}\) 20° \(\oldsymbol{\Omega}\) 0° \(\oldsymbol{\Z}\) 0° \(\oldsymbol{\Z}\) 0° \(\oldsymbol{\Z}\) 55'55	1°38'47 1°38'51	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	8103 Aug 18 07:13 8103 Aug 20 14:05 8103 Aug 29 20:09 8103 Aug 29 10:40 8103 Aug 30 08:04 8103 Sep 07 07:41 8103 Sep 11 02:42 8103 Sep 23 23:08 8103 Oct 05 19:33 8103 Oct 08 00:36	16° my 58'03 16° my 45'46 12° my 48'37 13° my 02'00 12° my 31'47 8° my 53'43 8° my 22'51 14° my 30'17 0° Ω 3° Ω 48'41	3°56'25 0.54690 AU
morning set superior conj minimum elong max. Earth dist.	8102 Oct 12 04:21 8102 Oct 21 03:36 8102 Oct 29 06:14 8102 Oct 31 21:24 8102 Nov 08 05:40 8102 Nov 08 06:51 8102 Nov 12 19:59 8102 Nov 12 21:25	0° \$\Pi\$ 3° \$\Pi\$ 46'52 15° \$\Pi\$ 12'00 0° \$\mathbb{M}\$. 5° \$\mathbb{M}\$ 22'49 20° \$\mathbb{M}\$ 48'45 0° \$\struct \text{7}\$ 00'7'06	1°38'47 1°38'51	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	8103 Aug 18 07:13 8103 Aug 20 14:05 8103 Aug 29 20:09 8103 Aug 29 10:40 8103 Aug 30 08:04 8103 Sep 07 07:41 8103 Sep 11 02:42 8103 Sep 23 23:08 8103 Oct 05 19:33 8103 Oct 08 00:36 8103 Oct 16 08:17	16° m 58'03 16° m 45'46 12° m 48'37 13° m 02'00 12° m 31'47 8° m 53'43 8° m 22'51 14° m 30'17 0° Ω 3° Ω 48'41 20° Ω 12'03 0° M	3°56'25 0.54690 AU
morning set superior conj minimum elong max. Earth dist. evening rise	8102 Oct 12 04:21 8102 Oct 21 03:36 8102 Oct 29 06:14 8102 Oct 31 21:24 8102 Nov 08 05:40 8102 Nov 08 06:51 8102 Nov 12 19:59 8102 Nov 12 21:25 8102 Nov 16 22:52 8102 Nov 24 22:40	0° £ 3° £46'52 15° £12'00 0° M 5° M22'49 20° M42'36 20° M48'45 0° ₹07'06 7° ₹55'55 22° ₹09'15	1°38'47 1°38'51	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	8103 Aug 18 07:13 8103 Aug 20 14:05 8103 Aug 29 20:09 8103 Aug 29 10:40 8103 Aug 30 08:04 8103 Sep 07 07:41 8103 Sep 11 02:42 8103 Sep 23 23:08 8103 Oct 05 19:33 8103 Oct 08 00:36 8103 Oct 16 08:17 8103 Oct 20 22:12	16° my 58'03 16° my 45'46 12° my 48'37 13° my 02'00 12° my 31'47 8° my 53'43 8° my 22'51 14° my 30'17 0° Ω 3° Ω 48'41 20° Ω 12'03 0° M.	3°56'25 0.54690 AU 22°43'44
morning set superior conj minimum elong max. Earth dist. evening rise desc. node	8102 Oct 12 04:21 8102 Oct 21 03:36 8102 Oct 29 06:14 8102 Oct 31 21:24 8102 Nov 08 05:40 8102 Nov 08 06:51 8102 Nov 12 19:59 8102 Nov 12 21:25 8102 Nov 16 22:52 8102 Nov 24 22:40 8102 Nov 29 18:04	0° £ 3° £46'52 15° £12'00 0° M. 5° M.22'49 20° M.42'36 20° M.48'45 0° ₹ 07'06 7° ₹ 55'55 22° ₹ 09'15 0° ₹	1°38'47 1°38'51 1.35513 AU	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	8103 Aug 18 07:13 8103 Aug 20 14:05 8103 Aug 29 20:09 8103 Aug 29 10:40 8103 Aug 30 08:04 8103 Sep 07 07:41 8103 Sep 11 02:42 8103 Sep 23 23:08 8103 Oct 05 19:33 8103 Oct 08 00:36 8103 Oct 16 08:17 8103 Oct 20 22:12	16° m 58'03 16° m 45'46 12° m 48'37 13° m 02'00 12° m 31'47 8° m 53'43 8° m 22'51 14° m 30'17 0° Ω 3° Ω 48'41 20° Ω 12'03 0° M. 5° M 15'27	3°56'25 0.54690 AU 22°43'44 1°41'29
morning set superior conj minimum elong max. Earth dist. evening rise desc. node	8102 Oct 12 04:21 8102 Oct 21 03:36 8102 Oct 29 06:14 8102 Oct 31 21:24 8102 Nov 08 05:40 8102 Nov 08 06:51 8102 Nov 12 19:59 8102 Nov 12 21:25 8102 Nov 16 22:52 8102 Nov 24 22:40 8102 Nov 29 18:04 8102 Dec 22 09:28	0° £ 3° £46'52 15° £12'00 0° M 5° M22'49 20° M42'36 20° M48'45 0° ₹07'06 7° ₹55'55 22° ₹09'15 0° ₹09'13	1°38'47 1°38'51 1.35513 AU	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	8103 Aug 18 07:13 8103 Aug 20 14:05 8103 Aug 29 20:09 8103 Aug 29 10:40 8103 Aug 30 08:04 8103 Sep 07 07:41 8103 Sep 11 02:42 8103 Sep 23 23:08 8103 Oct 05 19:33 8103 Oct 08 00:36 8103 Oct 16 08:17 8103 Oct 20 22:12 8103 Oct 23 09:04 8103 Oct 23 08:57	16° m 58'03 16° m 45'46 12° m 48'37 13° m 02'00 12° m 31'47 8° m 53'43 8° m 22'51 14° m 30'17 0° Ω 3° Ω 48'41 20° Ω 12'03 0° M. 5° M 15'27 5° M 14'50 12° M 02'47 21° M 29'49	3°56'25 0.54690 AU 22°43'44 1°41'29 1°41'35
morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	8102 Oct 12 04:21 8102 Oct 21 03:36 8102 Oct 29 06:14 8102 Oct 31 21:24 8102 Nov 08 05:40 8102 Nov 08 06:51 8102 Nov 12 19:59 8102 Nov 12 21:25 8102 Nov 16 22:52 8102 Nov 24 22:40 8102 Nov 29 18:04 8102 Dec 22 09:28 8102 Dec 22 18:07 8103 Jan 04 06:37 8103 Jan 10 15:15	0° £ 3° £46'52 15° £12'00 0° M. 5° M.22'49 20° M.42'36 20° M.48'45 0° ₹ 0° ₹07'06 7° ₹55'55 22° ₹09'15 0° ₹ 29° ₹39'13 0° ≈ 6° ≈54'14 4° ≈20'30	1°38'47 1°38'51 1.35513 AU	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	8103 Aug 18 07:13 8103 Aug 20 14:05 8103 Aug 20 14:05 8103 Aug 29 20:09 8103 Aug 29 10:40 8103 Aug 30 08:04 8103 Sep 07 07:41 8103 Sep 11 02:42 8103 Sep 23 23:08 8103 Oct 05 19:33 8103 Oct 08 00:36 8103 Oct 16 08:17 8103 Oct 20 22:12 8103 Oct 23 09:04 8103 Oct 23 08:57 8103 Oct 26 14:24 8103 Oct 31 06:36 8103 Nov 04 17:54	16° m 58'03 16° m 45'46 12° m 48'37 13° m 02'00 12° m 31'47 8° m 53'43 8° m 22'51 14° m 30'17 0° Ω 3° Ω 48'41 20° Ω 12'03 0° m 5° m 15'27 5° m 14'50 12° m 02'47 21° m 29'49 0° ズ	3°56'25 0.54690 AU 22°43'44 1°41'29 1°41'35
morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	8102 Oct 12 04:21 8102 Oct 21 03:36 8102 Oct 29 06:14 8102 Oct 31 21:24 8102 Nov 08 05:40 8102 Nov 08 06:51 8102 Nov 12 19:59 8102 Nov 12 21:25 8102 Nov 16 22:52 8102 Nov 24 22:40 8102 Nov 29 18:04 8102 Dec 22 09:28 8102 Dec 22 18:07 8103 Jan 04 06:37 8103 Jan 10 15:15 8103 Jan 14 20:03	0° £ 3° £46'52 15° £12'00 0° M. 5° M.22'49 20° M.42'36 20° M.48'45 0° ₹ 07'06 7° ₹ 55'55 22° ₹ 09'15 0° ₹ 29° ₹ 39'13 0° ≈ 6° ≈ 54'14 4° ≈ 20'30 30° ₹ ₹	1°38'47 1°38'51 1.35513 AU 26°26'33	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	8103 Aug 18 07:13 8103 Aug 20 14:05 8103 Aug 20 14:05 8103 Aug 29 20:09 8103 Aug 29 10:40 8103 Aug 30 08:04 8103 Sep 07 07:41 8103 Sep 11 02:42 8103 Sep 23 23:08 8103 Oct 05 19:33 8103 Oct 05 19:33 8103 Oct 08 00:36 8103 Oct 16 08:17 8103 Oct 20 22:12 8103 Oct 23 09:04 8103 Oct 23 08:57 8103 Oct 23 08:57 8103 Oct 24 14:24 8103 Oct 31 06:36 8103 Nov 04 17:54 8103 Nov 11 19:43	16° m 58'03 16° m 45'46 12° m 48'37 13° m 02'00 12° m 31'47 8° m 53'43 8° m 22'51 14° m 30'17 0° Ω 3° Ω 48'41 20° Ω 12'03 0° m 5° m 15'27 5° m 14'50 12° m 02'47 21° m 29'49 0° ズ 12° ズ 20'57	3°56'25 0.54690 AU 22°43'44 1°41'29 1°41'35
morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	8102 Oct 12 04:21 8102 Oct 21 03:36 8102 Oct 29 06:14 8102 Oct 31 21:24 8102 Nov 08 05:40 8102 Nov 08 06:51 8102 Nov 12 19:59 8102 Nov 12 21:25 8102 Nov 16 22:52 8102 Nov 24 22:40 8102 Nov 29 18:04 8102 Dec 22 09:28 8102 Dec 22 18:07 8103 Jan 04 06:37 8103 Jan 10 15:15 8103 Jan 14 20:03 8103 Jan 14 18:33	0° £ 3° £46'52 15° £12'00 0° M. 5° M.22'49 20° M.42'36 20° M.48'45 0° ₹ 07'06 7° ₹ 55'55 22° ₹ 09'15 0° ₹ 29° ₹ 39'13 0° ≈ 6° ≈ 54'14 4° ≈ 20'30 30° ₹ ₹ 0° ≈ 04'27	1°38'47 1°38'51 1.35513 AU 26°26'33	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	8103 Aug 18 07:13 8103 Aug 20 14:05 8103 Aug 20 14:05 8103 Aug 29 20:09 8103 Aug 29 10:40 8103 Aug 30 08:04 8103 Sep 07 07:41 8103 Sep 11 02:42 8103 Sep 23 23:08 8103 Oct 05 19:33 8103 Oct 05 19:33 8103 Oct 08 00:36 8103 Oct 16 08:17 8103 Oct 20 22:12 8103 Oct 23 09:04 8103 Oct 23 08:57 8103 Oct 24 14:24 8103 Oct 31 06:36 8103 Nov 04 17:54 8103 Nov 11 19:43 8103 Nov 23 14:15	16° m 58'03 16° m 45'46 12° m 48'37 13° m 02'00 12° m 31'47 8° m 53'43 8° m 22'51 14° m 30'17 0° Ω 3° Ω 48'41 20° Ω 12'03 0° m 5° m 15'27 5° m 14'50 12° m 02'47 21° m 29'49 0° ズ 12° ズ 20'57 0° ጜ	3°56'25 0.54690 AU 22°43'44 1°41'29 1°41'35 1.33887 AU
morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	8102 Oct 12 04:21 8102 Oct 21 03:36 8102 Oct 29 06:14 8102 Oct 31 21:24 8102 Nov 08 05:40 8102 Nov 08 06:51 8102 Nov 12 19:59 8102 Nov 12 21:25 8102 Nov 16 22:52 8102 Nov 24 22:40 8102 Nov 29 18:04 8102 Dec 22 09:28 8102 Dec 22 18:07 8103 Jan 04 06:37 8103 Jan 10 15:15 8103 Jan 14 20:03 8103 Jan 14 18:33 8103 Jan 16 12:02	0° 点 3° 年46'52 15° 年12'00 0° 肌 5° 肌22'49 20° 肌42'36 20° 肌48'45 0° ¾ 0° ¾07'06 7° ¾55'55 22° ¾09'15 0° 云 29° ♂39'13 0° ≈ 6° ≈54'14 4° ≈20'30 30° R © ≈04'27 27° ♂59'13	1°38'47 1°38'51 1.35513 AU 26°26'33 0.66462 AU -0°12'27	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	8103 Aug 18 07:13 8103 Aug 20 14:05 8103 Aug 20 14:05 8103 Aug 29 20:09 8103 Aug 29 10:40 8103 Aug 30 08:04 8103 Sep 07 07:41 8103 Sep 11 02:42 8103 Sep 23 23:08 8103 Oct 05 19:33 8103 Oct 08 00:36 8103 Oct 16 08:17 8103 Oct 20 22:12 8103 Oct 23 09:04 8103 Oct 23 09:04 8103 Oct 24 14:24 8103 Oct 25 14:24 8103 Oct 26 14:24 8103 Oct 27 10:43 8103 Nov 04 17:54 8103 Nov 11 19:43 8103 Nov 23 14:15 8103 Dec 04 22:23	16° m 58'03 16° m 45'46 12° m 48'37 13° m 02'00 12° m 31'47 8° m 53'43 8° m 22'51 14° m 30'17 0° Ω 3° Ω 48'41 20° Ω 12'03 0° M 5° M 15'27 5° M 14'50 12° M 02'47 21° M 29'49 0° ズ 12° ズ 20'57 0° ℧ 13° ℧ 12'57	3°56'25 0.54690 AU 22°43'44 1°41'29 1°41'35 1.33887 AU
morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	8102 Oct 12 04:21 8102 Oct 21 03:36 8102 Oct 29 06:14 8102 Oct 31 21:24 8102 Nov 08 05:40 8102 Nov 08 06:51 8102 Nov 12 19:59 8102 Nov 12 21:25 8102 Nov 16 22:52 8102 Nov 24 22:40 8102 Nov 29 18:04 8102 Dec 22 09:28 8102 Dec 22 18:07 8103 Jan 04 06:37 8103 Jan 10 15:15 8103 Jan 14 20:03 8103 Jan 14 18:33	0° £ 3° £46'52 15° £12'00 0° M. 5° M.22'49 20° M.42'36 20° M.48'45 0° ₹ 07'06 7° ₹ 55'55 22° ₹ 09'15 0° ₹ 29° ₹ 39'13 0° ≈ 6° ≈ 54'14 4° ≈ 20'30 30° ₹ ₹ 0° ≈ 04'27	1°38'47 1°38'51 1.35513 AU 26°26'33 0.66462 AU -0°12'27 0°12'11	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	8103 Aug 18 07:13 8103 Aug 20 14:05 8103 Aug 20 14:05 8103 Aug 29 20:09 8103 Aug 29 10:40 8103 Aug 30 08:04 8103 Sep 07 07:41 8103 Sep 11 02:42 8103 Sep 23 23:08 8103 Oct 05 19:33 8103 Oct 05 19:33 8103 Oct 08 00:36 8103 Oct 16 08:17 8103 Oct 20 22:12 8103 Oct 23 09:04 8103 Oct 23 08:57 8103 Oct 24 14:24 8103 Oct 31 06:36 8103 Nov 04 17:54 8103 Nov 11 19:43 8103 Nov 23 14:15	16° m 58'03 16° m 45'46 12° m 48'37 13° m 02'00 12° m 31'47 8° m 53'43 8° m 22'51 14° m 30'17 0° Ω 3° Ω 48'41 20° Ω 12'03 0° m 5° m 15'27 5° m 14'50 12° m 02'47 21° m 29'49 0° ズ 12° ズ 20'57 0° ጜ	3°56'25 0.54690 AU 22°43'44 1°41'29 1°41'35 1.33887 AU

min. Earth dist.	8103 Dec 29 00:36	14° ප 14'54	0.65080 AU	evening set	8104 Dec 07 04:20	1°る11'25	
inferior conj	8103 Dec 31 05:46	11° る 47'25	-1°15'40	Č	8104 Dec 08 17:07	30°R <i>≯</i> ¹	
minimum elong	8103 Dec 31 08:02	11° る 41'09	1°14'35	min. Earth dist.	8104 Dec 10 21:42	28° ₹ 100′18	0.63378 AU
asc. node	8104 Jan 03 23:57	7° る 59'28		inferior conj	8104 Dec 13 14:00	25° ∡ 19'35	-2°23'50
morning rise	8104 Jan 06 14:26	6° ප 16'02		minimum elong	8104 Dec 13 18:31	25° ₹ '08'16	2°21'54
direct	8104 Jan 09 05:50	5° る 39'02		morning rise	8104 Dec 20 10:35	20° ∡ 03'48	
morning max el	8104 Jan 15 16:15	9° ප 03'00	18°00'47	asc. node	8104 Dec 20 21:02	19° ∡ 754'52	
	8104 Jan 30 02:28	0° ≈		direct	8104 Dec 22 19:35	19° ∡ ³36'41	
morning set	8104 Feb 02 12:57	5° ≈ 40'38		morning max el	8104 Dec 29 09:36	23° х 00′56	17°48'15
desc. node	8104 Feb 07 19:02	14° ≈ 18'51			8105 Jan 03 21:52	ರ°0	
				morning set	8105 Jan 14 17:39	18° පි 02'19	
superior conj	8104 Feb 16 19:16	28° ≈ 48'47	-1°01'52		8105 Jan 21 16:46	0° ≈	
minimum elong	8104 Feb 16 12:06	28° ≈ 20′21	1°00'51	desc. node	8105 Jan 24 16:00	4° ≈ 59'18	
	8104 Feb 17 13:14	0° ∀					
max. Earth dist.	8104 Feb 20 09:34	4°) €29'28	1.45280 AU	superior conj	8105 Jan 27 00:26	8° ≈ 53'08	-0°17'04
evening rise	8104 Mar 03 23:22	24°) €02'33		minimum elong	8105 Jan 26 22:37	8° ≈ 45'40	0°16'40
	8104 Mar 07 20:15	0 ° \mathbf{Y}		max. Earth dist.	8105 Feb 02 03:24	18° ≈ 48'43	1.44360 AU
greatest brilliancy	8104 Mar 17 19:11	15° Y 05′16	-0.7m		8105 Feb 09 06:13	0° ∀	
	8104 Mar 29 00:24	9° 8		evening rise	8105 Feb 11 10:22	3° ∺ 21'17	
evening max el	8104 Mar 29 12:28	0° 8 31'21	19°44'15		8105 Mar 01 08:29	$0^{\circ}\mathbf{\Upsilon}$	
asc. node	8104 Mar 31 22:56	2° 8 42'56		evening max el	8105 Mar 12 13:12	14° Ƴ 09'56	20°48'01
retrograde	8104 Apr 05 22:20	4° 8 46'47		asc. node	8105 Mar 18 20:02	18° Ƴ 41'40	
evening set	8104 Apr 09 15:00	3° 8 27'04		retrograde	8105 Mar 20 20:50	19° Y 02′50	
	8104 Apr 13 01:40	30° ₹Ƴ		evening set	8105 Mar 24 22:50	17° Y 27′58	
inferior conj	8104 Apr 15 00:10	27° Y 29'22	3°18'16	inferior conj	8105 Mar 30 06:18	11° Ƴ 17'52	3°00'56
minimum elong	8104 Apr 14 23:05	27° Y 32'58	3°18'06	minimum elong	8105 Mar 30 04:26	11° Y 24'18	3°00'35
min. Earth dist.	8104 Apr 16 02:16	26° Y ′02'21	0.67172 AU	min. Earth dist.	8105 Mar 30 18:43	10° Y 35′02	0.67991 AU
morning rise	8104 Apr 20 06:53	21° Y 11'47		morning rise	8105 Apr 04 09:49	5° Y 02'51	
direct	8104 Apr 26 06:27	18° Ƴ 31'43		direct	8105 Apr 09 20:17	2° Y 38'05	
desc. node	8104 May 05 18:43	23° Y 19′26		morning max el	8105 Apr 20 17:33	9° Y 08′21	23°54'06
morning max el	8104 May 08 08:37		25°21'39	desc. node	8105 Apr 22 15:41	11° Y 10′06	
	8104 May 12 05:22	0°B			8105 May 07 03:38	0°8	
	8104 Jun 02 12:03	Π $^{\circ}0$		morning set	8105 May 26 04:44	0° Ⅱ 01'07	
morning set	8104 Jun 13 11:07	18° Ⅲ 39'56			8105 May 26 04:28	0°II	
max. Earth dist.	8104 Jun 17 03:00	25° ∏ 24'07	1.36300 AU	max. Earth dist.	8105 May 29 23:20	6° Ⅱ 36′05	1.38460 AU
	8104 Jun 19 13:06	0			0105 1 06 07 00	2001102122	1016150
				superior conj	8105 Jun 06 07:23	20° Ⅱ 03'33	-1°16'52
superior conj	8104 Jun 23 05:46	7° © 13'29		minimum elong	8105 Jun 06 12:06	20° Ⅲ 25'49	1°16'18
minimum elong	8104 Jun 23 08:30	7° 5 27'04		J	8105 Jun 11 11:11	0ං ව	1°16'18
minimum elong asc. node	8104 Jun 23 08:30 8104 Jun 27 22:02	7°527'04 16°539'34		asc. node	8105 Jun 11 11:11 8105 Jun 14 19:05	0°ତ 6°ତ31'48	1°16'18
minimum elong	8104 Jun 23 08:30 8104 Jun 27 22:02 8104 Jul 01 09:23	7°\$27'04 16°\$39'34 23°\$44'13		J	8105 Jun 11 11:11 8105 Jun 14 19:05 8105 Jun 15 08:06	0° ୭ 6° ୭ 31'48 7° ୭ 35'38	1°16'18
minimum elong asc. node evening rise	8104 Jun 23 08:30 8104 Jun 27 22:02 8104 Jul 01 09:23 8104 Jul 04 12:27	7°\$27'04 16°\$39'34 23°\$44'13 0°\$€	0°45'04	asc. node evening rise	8105 Jun 11 11:11 8105 Jun 14 19:05 8105 Jun 15 08:06 8105 Jun 28 03:38	0°© 6°©31'48 7°©35'38 0°Ω	
minimum elong asc. node evening rise	8104 Jun 23 08:30 8104 Jun 27 22:02 8104 Jul 01 09:23 8104 Jul 04 12:27 8104 Jul 18 19:38	7°\$27'04 16°\$39'34 23°\$44'13 0°\$ 22°\$14'55	0°45'04	asc. node evening rise evening max el	8105 Jun 11 11:11 8105 Jun 14 19:05 8105 Jun 15 08:06 8105 Jun 28 03:38 8105 Jul 01 16:38	0°© 6°©31'48 7°©35'38 0°N 4°N08'37	
minimum elong asc. node evening rise evening max el retrograde	8104 Jun 23 08:30 8104 Jun 27 22:02 8104 Jul 01 09:23 8104 Jul 04 12:27 8104 Jul 18 19:38 8104 Jul 28 22:55	7°\$27'04 16°\$39'34 23°\$44'13 0°\$\Omega\$ 22°\$\Omega\$14'55 27°\$\Omega\$14'42	0°45'04	asc. node evening rise evening max el retrograde	8105 Jun 11 11:11 8105 Jun 14 19:05 8105 Jun 15 08:06 8105 Jun 28 03:38 8105 Jul 01 16:38 8105 Jul 10 05:12	0°© 6°©31'48 7°©35'38 0°N 4°N08'37 8°N21'36	
minimum elong asc. node evening rise evening max el retrograde evening set	8104 Jun 23 08:30 8104 Jun 27 22:02 8104 Jul 01 09:23 8104 Jul 04 12:27 8104 Jul 18 19:38 8104 Jul 28 22:55 8104 Jul 30 19:35	7°\$27'04 16°\$39'34 23°\$44'13 0°\$\Omega\$ 22°\$\Omega\$14'55 27°\$\Omega\$14'42 27°\$\Omega\$05'20	0°45'04	asc. node evening rise evening max el retrograde evening set	8105 Jun 11 11:11 8105 Jun 14 19:05 8105 Jun 15 08:06 8105 Jun 28 03:38 8105 Jul 01 16:38 8105 Jul 10 05:12 8105 Jul 12 04:32	0°5 6°531'48 7°535'38 0°N 4°N08'37 8°N21'36 8°N08'56	
minimum elong asc. node evening rise evening max el retrograde evening set desc. node	8104 Jun 23 08:30 8104 Jun 27 22:02 8104 Jul 01 09:23 8104 Jul 04 12:27 8104 Jul 18 19:38 8104 Jul 28 22:55 8104 Jul 30 19:35 8104 Aug 01 17:56	7°\$27'04 16°\$39'34 23°\$44'13 0°\$1 22°\$114'55 27°\$114'42 27°\$05'20 26°\$337'04	0°45'04 19°49'34	asc. node evening rise evening max el retrograde evening set desc. node	8105 Jun 11 11:11 8105 Jun 14 19:05 8105 Jun 15 08:06 8105 Jun 28 03:38 8105 Jul 01 16:38 8105 Jul 10 05:12 8105 Jul 12 04:32 8105 Jul 19 15:00	0°5 6°531'48 7°535'38 0°N 4°N08'37 8°N21'36 8°N08'56 4°N23'41	18°54'41
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj	8104 Jun 23 08:30 8104 Jun 27 22:02 8104 Jul 01 09:23 8104 Jul 04 12:27 8104 Jul 18 19:38 8104 Jul 28 22:55 8104 Jul 30 19:35 8104 Aug 01 17:56 8104 Aug 08 18:02	7°\$27'04 16°\$39'34 23°\$44'13 0°\$ 22°\$14'55 27°\$14'42 27°\$05'20 26°\$37'04 23°\$04'06	0°45'04 19°49'34 -2°07'50	asc. node evening rise evening max el retrograde evening set desc. node inferior conj	8105 Jun 11 11:11 8105 Jun 14 19:05 8105 Jun 15 08:06 8105 Jun 28 03:38 8105 Jul 01 16:38 8105 Jul 10 05:12 8105 Jul 12 04:32 8105 Jul 19 15:00 8105 Jul 20 09:08	0°5 6°531'48 7°535'38 0°N 4°N08'37 8°N21'36 8°N08'56 4°N23'41 3°N51'45	18°54'41 -0°13'45
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong	8104 Jun 23 08:30 8104 Jun 27 22:02 8104 Jul 01 09:23 8104 Jul 04 12:27 8104 Jul 18 19:38 8104 Jul 28 22:55 8104 Jul 30 19:35 8104 Aug 01 17:56 8104 Aug 08 18:02 8104 Aug 08 12:10	7°\$27'04 16°\$39'34 23°\$44'13 0°\$\Omega\$ 22°\$\Omega\$14'55 27°\$\Omega\$14'42 27°\$\Omega\$05'20 26°\$\Omega\$37'04 23°\$\Omega\$04'06 23°\$\Omega\$13'05	0°45'04 19°49'34 -2°07'50 2°05'45	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong	8105 Jun 11 11:11 8105 Jun 14 19:05 8105 Jun 15 08:06 8105 Jun 28 03:38 8105 Jul 01 16:38 8105 Jul 10 05:12 8105 Jul 12 04:32 8105 Jul 19 15:00 8105 Jul 20 09:08 8105 Jul 20 08:34	0°5 6°531'48 7°535'38 0°N 4°N08'37 8°N21'36 8°N08'56 4°N23'41 3°N51'45 3°N52'46	18°54'41 -0°13'45 0°13'40
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist.	8104 Jun 23 08:30 8104 Jun 27 22:02 8104 Jul 01 09:23 8104 Jul 04 12:27 8104 Jul 18 19:38 8104 Jul 28 22:55 8104 Jul 30 19:35 8104 Aug 01 17:56 8104 Aug 08 18:02 8104 Aug 08 12:10 8104 Aug 10 19:40	7°\$27'04 16°\$39'34 23°\$44'13 0°\$\Omega\$ 22°\$\Omega\$14'55 27°\$\Omega\$14'42 27°\$\Omega\$05'20 26°\$\Omega\$37'04 23°\$\Omega\$04'06 23°\$\Omega\$13'05 21°\$\Omega\$48'02	0°45'04 19°49'34 -2°07'50 2°05'45	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong transit middle	8105 Jun 11 11:11 8105 Jun 14 19:05 8105 Jun 15 08:06 8105 Jun 28 03:38 8105 Jul 01 16:38 8105 Jul 10 05:12 8105 Jul 12 04:32 8105 Jul 19 15:00 8105 Jul 20 09:08 8105 Jul 20 08:34 8105 Jul 20 08:34	0°5 6°531'48 7°535'38 0°N 4°N08'37 8°N21'36 8°N08'56 4°N23'41 3°N51'45 3°N52'46 3°N52'46	18°54'41 -0°13'45 0°13'40
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	8104 Jun 23 08:30 8104 Jun 27 22:02 8104 Jul 01 09:23 8104 Jul 04 12:27 8104 Jul 18 19:38 8104 Jul 28 22:55 8104 Jul 30 19:35 8104 Aug 01 17:56 8104 Aug 08 18:02 8104 Aug 08 12:10 8104 Aug 10 19:40 8104 Aug 17 02:47	7°\$27'04 16°\$39'34 23°\$44'13 0°\$\Omega\$ 22°\$\Omega\$14'55 27°\$\Omega\$14'42 27°\$\Omega\$05'20 26°\$\Omega\$37'04 23°\$\Omega\$04'06 23°\$\Omega\$13'05 21°\$\Omega\$48'02 18°\$\Omega\$42'29	0°45'04 19°49'34 -2°07'50 2°05'45	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin	8105 Jun 11 11:11 8105 Jun 14 19:05 8105 Jun 15 08:06 8105 Jun 28 03:38 8105 Jul 01 16:38 8105 Jul 10 05:12 8105 Jul 12 04:32 8105 Jul 19 15:00 8105 Jul 20 09:08 8105 Jul 20 08:34 8105 Jul 20 08:34 8105 Jul 20 06:36	0°5 6°531'48 7°535'38 0°N 4°N08'37 8°N21'36 8°N08'56 4°N23'41 3°N51'45 3°N52'46 3°N52'46 3°N55'16	18°54'41 -0°13'45 0°13'40
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	8104 Jun 23 08:30 8104 Jun 27 22:02 8104 Jul 01 09:23 8104 Jul 04 12:27 8104 Jul 18 19:38 8104 Jul 28 22:55 8104 Jul 30 19:35 8104 Aug 01 17:56 8104 Aug 08 18:02 8104 Aug 08 12:10 8104 Aug 10 19:40 8104 Aug 17 02:47 8104 Aug 21 16:21	7°\$27'04 16°\$39'34 23°\$44'13 0°\$\Omega\$ 22°\$\Omega\$14'55 27°\$\Omega\$14'42 27°\$\Omega\$05'20 26°\$\Omega\$37'04 23°\$\Omega\$04'06 23°\$\Omega\$13'05 21°\$\Omega\$48'02 18°\$\Omega\$42'29 17°\$\Omega\$56'32	0°45'04 19°49'34 -2°07'50 2°05'45 0.55249 AU	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end	8105 Jun 11 11:11 8105 Jun 14 19:05 8105 Jun 15 08:06 8105 Jun 28 03:38 8105 Jul 01 16:38 8105 Jul 10 05:12 8105 Jul 12 04:32 8105 Jul 19 15:00 8105 Jul 20 09:08 8105 Jul 20 08:34 8105 Jul 20 08:34 8105 Jul 20 06:36 8105 Jul 20 10:32	0°5 6°531'48 7°535'38 0°N 4°N08'37 8°N21'36 8°N08'56 4°N23'41 3°N55'46 3°N52'46 3°N52'46 3°N56'16	18°54'41 -0°13'45 0°13'40 0°13'40
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	8104 Jun 23 08:30 8104 Jun 27 22:02 8104 Jul 01 09:23 8104 Jul 04 12:27 8104 Jul 18 19:38 8104 Jul 28 22:55 8104 Jul 30 19:35 8104 Aug 01 17:56 8104 Aug 08 18:02 8104 Aug 08 12:10 8104 Aug 10 19:40 8104 Aug 17 02:47 8104 Aug 21 16:21 8104 Sep 04 11:58	7°\$27'04 16°\$39'34 23°\$44'13 0°\$\Omega\$22°\$\Omega\$14'55 27°\$\Omega\$14'42 27°\$\Omega\$05'20 26°\$\Omega\$37'04 23°\$\Omega\$04'06 23°\$\Omega\$13'05 21°\$\Omega\$48'02 18°\$\Omega\$42'29 17°\$\Omega\$56'32 24°\$\Omega\$47'13	0°45'04 19°49'34 -2°07'50 2°05'45 0.55249 AU	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin	8105 Jun 11 11:11 8105 Jun 14 19:05 8105 Jun 15 08:06 8105 Jun 28 03:38 8105 Jul 01 16:38 8105 Jul 10 05:12 8105 Jul 12 04:32 8105 Jul 19 15:00 8105 Jul 20 09:08 8105 Jul 20 08:34 8105 Jul 20 08:34 8105 Jul 20 06:36 8105 Jul 20 10:32 8105 Jul 23 10:51	0°5 6°531'48 7°535'38 0°N 4°N08'37 8°N21'36 8°N08'56 4°N23'41 3°N51'45 3°N52'46 3°N52'46 3°N56'16 3°N49'16 1°N41'56	18°54'41 -0°13'45 0°13'40
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	8104 Jun 23 08:30 8104 Jun 27 22:02 8104 Jul 01 09:23 8104 Jul 04 12:27 8104 Jul 18 19:38 8104 Jul 28 22:55 8104 Jul 30 19:35 8104 Aug 01 17:56 8104 Aug 08 18:02 8104 Aug 10 19:40 8104 Aug 10 19:40 8104 Aug 17 02:47 8104 Aug 21 16:21 8104 Sep 04 11:58 8104 Sep 09 07:54	7°\$27'04 16°\$39'34 23°\$44'13 0°\$\Omega\$2°\$\Omega\$14'55 27°\$\Omega\$14'42 27°\$\Omega\$05'20 26°\$\Omega\$37'04 23°\$\Omega\$04'06 23°\$\Omega\$13'05 21°\$\Omega\$48'02 18°\$\Omega\$42'29 17°\$\Omega\$6'32 24°\$\Omega\$47'13 0°\$\$\Omega\$	0°45'04 19°49'34 -2°07'50 2°05'45 0.55249 AU	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist.	8105 Jun 11 11:11 8105 Jun 14 19:05 8105 Jun 15 08:06 8105 Jun 28 03:38 8105 Jul 01 16:38 8105 Jul 10 05:12 8105 Jul 12 04:32 8105 Jul 19 15:00 8105 Jul 20 09:08 8105 Jul 20 08:34 8105 Jul 20 08:34 8105 Jul 20 06:36 8105 Jul 20 10:32 8105 Jul 23 10:51 8105 Jul 26 03:50	0°5 6°531'48 7°535'38 0°N 4°N08'37 8°N21'36 8°N08'56 4°N23'41 3°N51'45 3°N52'46 3°N52'46 3°N56'16 3°N49'16 1°N41'56	18°54'41 -0°13'45 0°13'40 0°13'40
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	8104 Jun 23 08:30 8104 Jun 27 22:02 8104 Jul 01 09:23 8104 Jul 04 12:27 8104 Jul 18 19:38 8104 Jul 28 22:55 8104 Jul 30 19:35 8104 Aug 01 17:56 8104 Aug 08 18:02 8104 Aug 10 19:40 8104 Aug 10 19:40 8104 Aug 17 02:47 8104 Aug 21 16:21 8104 Sep 04 11:58 8104 Sep 09 07:54 8104 Sep 23 21:35	7°\$27'04 16°\$39'34 23°\$44'13 0°\$\Omega\$22°\$\Omega\$14'55 27°\$\Omega\$14'42 27°\$\Omega\$05'20 26°\$\Omega\$37'04 23°\$\Omega\$13'05 21°\$\Omega\$48'02 18°\$\Omega\$42'29 17°\$\Omega\$56'32 24°\$\Omega\$47'13 0°\$\Omega\$22°\$\Omega\$57'05	0°45'04 19°49'34 -2°07'50 2°05'45 0.55249 AU	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist.	8105 Jun 11 11:11 8105 Jun 14 19:05 8105 Jun 15 08:06 8105 Jun 28 03:38 8105 Jul 01 16:38 8105 Jul 10 05:12 8105 Jul 12 04:32 8105 Jul 19 15:00 8105 Jul 20 09:08 8105 Jul 20 08:34 8105 Jul 20 06:36 8105 Jul 20 10:32 8105 Jul 23 10:51 8105 Jul 26 03:50 8105 Jul 28 09:17	0°5 6°331'48 7°335'38 0° N 4° N08'37 8° N21'36 8° N08'56 4° N23'41 3° N51'45 3° N52'46 3° N52'46 3° N56'16 3° N49'16 1° N41'56 30° R52 28°553'47	18°54'41 -0°13'45 0°13'40 0°13'40
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	8104 Jun 23 08:30 8104 Jun 27 22:02 8104 Jul 01 09:23 8104 Jul 04 12:27 8104 Jul 18 19:38 8104 Jul 28 22:55 8104 Jul 30 19:35 8104 Aug 01 17:56 8104 Aug 08 18:02 8104 Aug 10 19:40 8104 Aug 10 19:40 8104 Aug 17 02:47 8104 Aug 21 16:21 8104 Sep 04 11:58 8104 Sep 09 07:54 8104 Sep 23 21:35 8104 Sep 27 10:28	7°\$27'04 16°\$39'34 23°\$44'13 0°\$\Omega\$ 22°\$\Omega\$14'55 27°\$\Omega\$14'42 27°\$\Omega\$05'20 26°\$\Omega\$37'04 23°\$\Omega\$04'06 23°\$\Omega\$13'05 21°\$\Omega\$48'02 18°\$\Omega\$42'29 17°\$\Omega\$56'32 24°\$\Omega\$47'13 0°\$\Omega\$	0°45'04 19°49'34 -2°07'50 2°05'45 0.55249 AU	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist.	8105 Jun 11 11:11 8105 Jun 14 19:05 8105 Jun 15 08:06 8105 Jun 28 03:38 8105 Jul 01 16:38 8105 Jul 10 05:12 8105 Jul 12 04:32 8105 Jul 19 15:00 8105 Jul 20 09:08 8105 Jul 20 08:34 8105 Jul 20 08:34 8105 Jul 20 06:36 8105 Jul 20 10:32 8105 Jul 23 10:51 8105 Jul 26 03:50 8105 Jul 28 09:17 8105 Aug 02 19:26	0°56 6°531'48 7°535'38 0° N 4°N08'37 8°N21'36 8°N08'56 4°N23'41 3°N51'45 3°N52'46 3°N52'46 3°N56'16 3°N49'16 1°N41'56 30°R52 28°553'47 27°543'37	18°54'41 -0°13'45 0°13'40 0°13'40
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	8104 Jun 23 08:30 8104 Jun 27 22:02 8104 Jul 01 09:23 8104 Jul 04 12:27 8104 Jul 18 19:38 8104 Jul 28 22:55 8104 Jul 30 19:35 8104 Aug 01 17:56 8104 Aug 08 18:02 8104 Aug 10 19:40 8104 Aug 10 19:40 8104 Aug 17 02:47 8104 Aug 21 16:21 8104 Sep 04 11:58 8104 Sep 09 07:54 8104 Sep 23 21:35	7°\$27'04 16°\$39'34 23°\$44'13 0°\$\Omega\$22°\$\Omega\$14'55 27°\$\Omega\$14'42 27°\$\Omega\$05'20 26°\$\Omega\$37'04 23°\$\Omega\$13'05 21°\$\Omega\$48'02 18°\$\Omega\$42'29 17°\$\Omega\$56'32 24°\$\Omega\$47'13 0°\$\Omega\$22°\$\Omega\$57'05	0°45'04 19°49'34 -2°07'50 2°05'45 0.55249 AU	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct	8105 Jun 11 11:11 8105 Jun 14 19:05 8105 Jun 15 08:06 8105 Jun 28 03:38 8105 Jul 01 16:38 8105 Jul 10 05:12 8105 Jul 12 04:32 8105 Jul 19 15:00 8105 Jul 20 09:08 8105 Jul 20 08:34 8105 Jul 20 08:34 8105 Jul 20 06:36 8105 Jul 20 10:32 8105 Jul 20 10:32 8105 Jul 20 3:50 8105 Jul 28 09:17 8105 Aug 02 19:26 8105 Aug 10 11:41	0°5 6°531'48 7°535'38 0°A 4°A08'37 8°A21'36 8°A08'56 4°A23'41 3°A51'45 3°A52'46 3°A52'46 3°A56'16 3°A49'16 1°A41'56 30°R5 28°553'47 27°543'37 0°A	18°54'41 -0°13'45 0°13'40 0°13'40 0.56669 AU
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	8104 Jun 23 08:30 8104 Jun 27 22:02 8104 Jul 01 09:23 8104 Jul 04 12:27 8104 Jul 18 19:38 8104 Jul 28 22:55 8104 Jul 30 19:35 8104 Aug 01 17:56 8104 Aug 08 18:02 8104 Aug 10 19:40 8104 Aug 17 02:47 8104 Aug 21 16:21 8104 Sep 04 11:58 8104 Sep 09 07:54 8104 Sep 23 21:35 8104 Sep 29 20:03	7°\$27'04 16°\$39'34 23°\$44'13 0°\$\Omega\$22°\$\Omega\$14'55 27°\$\Omega\$14'42 27°\$\Omega\$05'20 26°\$\Omega\$37'04 23°\$\Omega\$04'06 23°\$\Omega\$13'05 21°\$\Omega\$48'02 18°\$\Omega\$42'29 17°\$\Omega\$56'32 24°\$\Omega\$47'13 0°\$\Omega\$20*\$\Omega\$57'05 0°\$\Omega\$5°\$\Omega\$01'39	0°45'04 19°49'34 -2°07'50 2°05'45 0.55249 AU 24°29'32	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist.	8105 Jun 11 11:11 8105 Jun 14 19:05 8105 Jun 28 03:38 8105 Jul 01 16:38 8105 Jul 10 05:12 8105 Jul 12 04:32 8105 Jul 19 15:00 8105 Jul 20 09:08 8105 Jul 20 08:34 8105 Jul 20 08:34 8105 Jul 20 06:36 8105 Jul 20 10:32 8105 Jul 20 10:32 8105 Jul 20 06:36 8105 Jul 20 10:32 8105 Jul 20 06:36 8105 Jul 20 10:32 8105 Jul 20 03:50 8105 Jul 28 09:17 8105 Aug 02 19:26 8105 Aug 10 11:41 8105 Aug 17 01:50	0°5 6°531'48 7°535'38 0°A 4°A08'37 8°A21'36 8°A08'56 4°A23'41 3°A51'45 3°A52'46 3°A52'46 3°A56'16 3°A9'16 1°A41'56 30°R5 28°553'47 27°543'37 0°A 5°A06'32	18°54'41 -0°13'45 0°13'40 0°13'40 0.56669 AU
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	8104 Jun 23 08:30 8104 Jun 27 22:02 8104 Jul 01 09:23 8104 Jul 04 12:27 8104 Jul 18 19:38 8104 Jul 28 22:55 8104 Jul 30 19:35 8104 Aug 01 17:56 8104 Aug 08 18:02 8104 Aug 08 12:10 8104 Aug 10 19:40 8104 Aug 17 02:47 8104 Aug 21 16:21 8104 Sep 04 11:58 8104 Sep 09 07:54 8104 Sep 23 21:35 8104 Sep 27 10:28 8104 Oct 06 17:23	7°\$27'04 16°\$39'34 23°\$44'13 0°\$\Alpha 22°\$\Al4'55 27°\$\Al4'42 27°\$\Al9'05'20 26°\$\A37'04 23°\$\Al9'06 23°\$\Al3'05 21°\$\Al8'02 18°\$\Al2'29 17°\$\A56'32 24°\$\Al7'13 0°\$\mathbf{m} 22°\$\mathbf{m}\$57'05 0°\$\mathbf{s}\$ 5°\$\mathbf{s}\$01'39	0°45'04 19°49'34 -2°07'50 2°05'45 0.55249 AU 24°29'32	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct morning max el	8105 Jun 11 11:11 8105 Jun 14 19:05 8105 Jun 15 08:06 8105 Jun 28 03:38 8105 Jul 01 16:38 8105 Jul 10 05:12 8105 Jul 12 04:32 8105 Jul 19 15:00 8105 Jul 20 09:08 8105 Jul 20 08:34 8105 Jul 20 08:34 8105 Jul 20 06:36 8105 Jul 20 10:32 8105 Jul 20 10:32 8105 Jul 23 10:51 8105 Jul 26 03:50 8105 Jul 28 09:17 8105 Aug 02 19:26 8105 Aug 10 11:41 8105 Aug 17 01:50 8105 Sep 04 04:04	0°\$ 6°\$31'48 7°\$35'38 0°\$ 4°\$\O8'37 8°\$\O21'36 8°\$\O8'56 4°\$\O23'41 3°\$\O5'145 3°\$\O52'46 3°\$\O52'46 3°\$\O56'16 3°\$\O49'16 1°\$\O41'56 30°\$\S 28°\$\S3'47 27°\$\S43'37 0°\$\O6'32 0°\$\D6'32	18°54'41 -0°13'45 0°13'40 0°13'40 0.56669 AU
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	8104 Jun 23 08:30 8104 Jun 27 22:02 8104 Jul 01 09:23 8104 Jul 04 12:27 8104 Jul 18 19:38 8104 Jul 28 22:55 8104 Jul 30 19:35 8104 Aug 01 17:56 8104 Aug 08 18:02 8104 Aug 08 12:10 8104 Aug 10 19:40 8104 Aug 17 02:47 8104 Aug 21 16:21 8104 Sep 04 11:58 8104 Sep 09 07:54 8104 Sep 23 21:35 8104 Sep 29 20:03 8104 Oct 06 17:23 8104 Oct 06 16:11	7°\$27'04 16°\$39'34 23°\$44'13 0°\$\Omega\$ 22°\$\Omega\$14'55 27°\$\Omega\$14'42 27°\$\Omega\$05'20 26°\$\Omega\$37'04 23°\$\Omega\$13'05 21°\$\Omega\$48'02 18°\$\Omega\$42'29 17°\$\Omega\$56'32 24°\$\Omega\$47'13 0°\$\Omega\$ 22°\$\Omega\$57'05 0°\$\Omega\$ 5°\$\Omega\$00'43 19°\$\Omega\$54'10	0°45'04 19°49'34 -2°07'50 2°05'45 0.55249 AU 24°29'32 1°37'50 1°37'49	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct morning max el asc. node	8105 Jun 11 11:11 8105 Jun 14 19:05 8105 Jun 15 08:06 8105 Jun 28 03:38 8105 Jul 01 16:38 8105 Jul 10 05:12 8105 Jul 12 04:32 8105 Jul 19 15:00 8105 Jul 20 09:08 8105 Jul 20 08:34 8105 Jul 20 08:34 8105 Jul 20 06:36 8105 Jul 20 10:32 8105 Jul 20 10:32 8105 Jul 23 10:51 8105 Jul 26 03:50 8105 Jul 28 09:17 8105 Aug 02 19:26 8105 Aug 10 11:41 8105 Aug 17 01:50 8105 Sep 04 04:04 8105 Sep 10 18:34	0°\$ 6°\$31'48 7°\$35'38 0°\$\Omega\$ 4°\$\Omega\$08'37 8°\$\Omega\$21'36 8°\$\Omega\$23'41 3°\$\Omega\$51'45 3°\$\Omega\$246 3°\$\Omega\$6116 3°\$\Omega\$49'16 1°\$\Omega\$41'56 30°\$\Omega\$28°\$\Omega\$3'47 27°\$\Omega\$43'37 0°\$\Omega\$ 5°\$\Omega\$06'32 0°\$\Omega\$12°\$\Omega\$28'554	18°54'41 -0°13'45 0°13'40 0°13'40 0.56669 AU
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	8104 Jun 23 08:30 8104 Jun 27 22:02 8104 Jul 01 09:23 8104 Jul 04 12:27 8104 Jul 18 19:38 8104 Jul 28 22:55 8104 Jul 30 19:35 8104 Aug 01 17:56 8104 Aug 08 12:10 8104 Aug 10 19:40 8104 Aug 10 19:40 8104 Aug 17 02:47 8104 Aug 21 16:21 8104 Sep 04 11:58 8104 Sep 09 07:54 8104 Sep 23 21:35 8104 Sep 29 20:03 8104 Oct 06 17:23 8104 Oct 06 16:11 8104 Oct 08 15:35	7°\$27'04 16°\$39'34 23°\$44'13 0°\$\Omega\$ 22°\$\Omega\$14'55 27°\$\Omega\$14'42 27°\$\Omega\$05'20 26°\$\Omega\$37'04 23°\$\Omega\$13'05 21°\$\Omega\$48'02 18°\$\Omega\$42'29 17°\$\Omega\$56'32 24°\$\Omega\$47'13 0°\$\Omega\$22°\$\Omega\$57'05 0°\$\Omega\$50'139 20°\$\Omega\$00'43 19°\$\Omega\$54'10 24°\$\Omega\$11'40	0°45'04 19°49'34 -2°07'50 2°05'45 0.55249 AU 24°29'32	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct morning max el	8105 Jun 11 11:11 8105 Jun 14 19:05 8105 Jun 15 08:06 8105 Jun 28 03:38 8105 Jul 01 16:38 8105 Jul 10 05:12 8105 Jul 12 04:32 8105 Jul 19 15:00 8105 Jul 20 09:08 8105 Jul 20 08:34 8105 Jul 20 08:34 8105 Jul 20 06:36 8105 Jul 20 10:32 8105 Jul 20 10:32 8105 Jul 20 10:32 8105 Jul 20 10:51 8105 Jul 26 03:50 8105 Jul 28 09:17 8105 Aug 02 19:26 8105 Aug 10 11:41 8105 Aug 17 01:50 8105 Sep 04 04:04 8105 Sep 10 18:34 8105 Sep 14 07:03	0°5 6°531'48 7°535'38 0° N 4°N08'37 8°N21'36 8°N08'56 4°N23'41 3°N51'45 3°N52'46 3°N52'46 3°N56'16 3°N49'16 1°N41'56 30°R5 28°553'47 27°543'37 0°N 5°N06'32 0°M 12°M28'54 19°M47'06	18°54'41 -0°13'45 0°13'40 0°13'40 0.56669 AU
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	8104 Jun 23 08:30 8104 Jun 27 22:02 8104 Jul 01 09:23 8104 Jul 04 12:27 8104 Jul 18 19:38 8104 Jul 28 22:55 8104 Jul 30 19:35 8104 Aug 01 17:56 8104 Aug 08 12:10 8104 Aug 10 19:40 8104 Aug 10 19:40 8104 Aug 17 02:47 8104 Aug 21 16:21 8104 Sep 04 11:58 8104 Sep 09 07:54 8104 Sep 23 21:35 8104 Sep 29 20:03 8104 Oct 06 17:23 8104 Oct 06 16:11 8104 Oct 08 15:35 8104 Oct 11 08:53	7°\$27'04 16°\$39'34 23°\$44'13 0°\$\Omega\$2'\Omega\$14'55 27°\Omega\$14'42 27°\Omega\$05'20 26°\Omega\$37'04 23°\Omega\$40'66 23°\Omega\$13'05 21°\Omega\$48'02 18°\Omega\$42'29 17°\Omega\$56'32 24°\Omega\$47'13 0°\$\Omega\$20'\Omega\$57'05 0°\$\Omega\$501'39 20°\$\Omega\$00'43 19°\$\Omega\$54'10 24°\$\Omega\$11'40 0°\$\Omega\$	0°45'04 19°49'34 -2°07'50 2°05'45 0.55249 AU 24°29'32 1°37'50 1°37'49	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct morning max el asc. node	8105 Jun 11 11:11 8105 Jun 14 19:05 8105 Jun 15 08:06 8105 Jun 28 03:38 8105 Jul 01 16:38 8105 Jul 10 05:12 8105 Jul 12 04:32 8105 Jul 19 15:00 8105 Jul 20 09:08 8105 Jul 20 08:34 8105 Jul 20 08:34 8105 Jul 20 06:36 8105 Jul 20 10:32 8105 Jul 20 10:32 8105 Jul 23 10:51 8105 Jul 26 03:50 8105 Jul 28 09:17 8105 Aug 02 19:26 8105 Aug 10 11:41 8105 Aug 17 01:50 8105 Sep 04 04:04 8105 Sep 10 18:34	0°\$ 6°\$31'48 7°\$35'38 0°\$\Omega\$ 4°\$\Omega\$08'37 8°\$\Omega\$21'36 8°\$\Omega\$23'41 3°\$\Omega\$51'45 3°\$\Omega\$246 3°\$\Omega\$6116 3°\$\Omega\$49'16 1°\$\Omega\$41'56 30°\$\Omega\$28°\$\Omega\$3'47 27°\$\Omega\$43'37 0°\$\Omega\$ 5°\$\Omega\$06'32 0°\$\Omega\$12°\$\Omega\$28'554	18°54'41 -0°13'45 0°13'40 0°13'40 0.56669 AU
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	8104 Jun 23 08:30 8104 Jun 27 22:02 8104 Jul 01 09:23 8104 Jul 04 12:27 8104 Jul 18 19:38 8104 Jul 28 22:55 8104 Jul 30 19:35 8104 Aug 01 17:56 8104 Aug 08 12:10 8104 Aug 10 19:40 8104 Aug 10 19:40 8104 Aug 17 02:47 8104 Aug 21 16:21 8104 Sep 04 11:58 8104 Sep 09 07:54 8104 Sep 23 21:35 8104 Sep 29 20:03 8104 Oct 06 16:11 8104 Oct 08 15:35 8104 Oct 11 08:53 8104 Oct 14 01:08	7°\$27'04 16°\$39'34 23°\$44'13 0°\$\Omega\$2'\Omega\$14'55 27°\Omega\$14'42 27°\Omega\$05'20 26°\Omega\$3'\Omega\$20 18°\Omega\$42'29 17°\Omega\$56'32 24°\Omega\$47'13 0°\$\Omega\$20'\Omega\$54'10 24°\Omega\$11'40 0°\$\Omega\$52'43	0°45'04 19°49'34 -2°07'50 2°05'45 0.55249 AU 24°29'32 1°37'50 1°37'49	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct morning max el asc. node morning set	8105 Jun 11 11:11 8105 Jun 14 19:05 8105 Jun 15 08:06 8105 Jun 28 03:38 8105 Jul 01 16:38 8105 Jul 10 05:12 8105 Jul 12 04:32 8105 Jul 19 15:00 8105 Jul 20 09:08 8105 Jul 20 08:34 8105 Jul 20 08:34 8105 Jul 20 06:36 8105 Jul 20 10:32 8105 Jul 23 10:51 8105 Jul 26 03:50 8105 Jul 28 09:17 8105 Aug 02 19:26 8105 Aug 10 11:41 8105 Aug 17 01:50 8105 Sep 04 04:04 8105 Sep 10 18:34 8105 Sep 14 07:03 8105 Sep 18 23:43	0°5 6°531'48 7°535'38 0° N 4°N08'37 8°N21'36 8°N08'56 4°N23'41 3°N51'45 3°N52'46 3°N56'16 3°N49'16 1°N41'56 30°R\$ 28°\$53'47 27°\$43'37 0°N 5°N06'32 0°M 12°M28'54 19°M47'06 0°£	18°54'41 -0°13'45 0°13'40 0°13'40 0.56669 AU 26°05'50
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	8104 Jun 23 08:30 8104 Jun 27 22:02 8104 Jul 01 09:23 8104 Jul 04 12:27 8104 Jul 18 19:38 8104 Jul 28 22:55 8104 Jul 30 19:35 8104 Aug 01 17:56 8104 Aug 08 12:10 8104 Aug 10 19:40 8104 Aug 10 19:40 8104 Aug 17 02:47 8104 Aug 21 16:21 8104 Sep 04 11:58 8104 Sep 09 07:54 8104 Sep 23 21:35 8104 Sep 27 10:28 8104 Oct 06 16:11 8104 Oct 06 16:11 8104 Oct 08 15:35 8104 Oct 11 08:53 8104 Oct 14 01:08 8104 Oct 27 08:43	7°\$27'04 16°\$39'34 23°\$44'13 0°\$\Omega\$2°\$\Omega\$14'55 27°\$\Omega\$14'42 27°\$\Omega\$05'20 26°\$\Omega\$3'04'06 23°\$\Omega\$13'05 21°\$\Omega\$48'02 18°\$\Omega\$42'29 17°\$\Omega\$6'32 24°\$\Omega\$47'13 0°\$\Omega\$20'\Omega\$54'10 24°\$\Omega\$11'40 0°\$\Omega\$2'43 0°\$\omega\$	0°45'04 19°49'34 -2°07'50 2°05'45 0.55249 AU 24°29'32 1°37'50 1°37'49	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct morning max el asc. node morning set	8105 Jun 11 11:11 8105 Jun 14 19:05 8105 Jun 15 08:06 8105 Jun 28 03:38 8105 Jul 01 16:38 8105 Jul 10 05:12 8105 Jul 12 04:32 8105 Jul 19 15:00 8105 Jul 20 09:08 8105 Jul 20 08:34 8105 Jul 20 06:36 8105 Jul 20 10:32 8105 Jul 20 10:32 8105 Jul 23 10:51 8105 Jul 26 03:50 8105 Jul 28 09:17 8105 Aug 02 19:26 8105 Aug 10 11:41 8105 Aug 17 01:50 8105 Sep 14 04:04 8105 Sep 14 07:03 8105 Sep 18 23:43	0°5 6°531'48 7°535'38 0° N 4°N08'37 8°N21'36 8°N08'56 4°N23'41 3°N51'45 3°N52'46 3°N52'46 3°N56'16 3°N49'16 1°N41'56 30°R\$ 28°\$53'47 27°\$43'37 0°N 5°N06'32 0°\$\$ 12°\$\$2554 19°\$\$47'06 0°\$\$ 4°\$\$51'39	18°54'41 -0°13'45 0°13'40 0°13'40 0.56669 AU 26°05'50
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	8104 Jun 23 08:30 8104 Jun 27 22:02 8104 Jul 01 09:23 8104 Jul 04 12:27 8104 Jul 18 19:38 8104 Jul 28 22:55 8104 Jul 30 19:35 8104 Aug 01 17:56 8104 Aug 08 18:02 8104 Aug 10 19:40 8104 Aug 10 19:40 8104 Aug 17 02:47 8104 Aug 21 16:21 8104 Sep 04 11:58 8104 Sep 09 07:54 8104 Sep 23 21:35 8104 Sep 27 10:28 8104 Sep 29 20:03 8104 Oct 06 16:11 8104 Oct 08 15:35 8104 Oct 11 08:53 8104 Oct 14 01:08 8104 Oct 27 08:43 8104 Oct 28 16:47	7°\$27'04 16°\$39'34 23°\$44'13 0°\$\Omega\$2°\$\Omega\$14'55 27°\$\Omega\$14'42 27°\$\Omega\$05'20 26°\$\Omega\$37'04 23°\$\Omega\$13'05 21°\$\Omega\$48'02 18°\$\Omega\$42'29 17°\$\Omega\$56'32 24°\$\Omega\$47'13 0°\$\Omega\$20'\Omega\$57'05 0°\$\Omega\$501'39 20°\$\Omega\$00'\omega\$11'\omega\$0°\$\Omega\$11'\omega\$0°\$\Omega\$11'\omega\$0°\$\Omega\$2'\omega\$309'30	0°45'04 19°49'34 -2°07'50 2°05'45 0.55249 AU 24°29'32 1°37'50 1°37'49 1.32695 AU	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct morning max el asc. node morning set	8105 Jun 11 11:11 8105 Jun 14 19:05 8105 Jun 15 08:06 8105 Jun 28 03:38 8105 Jul 01 16:38 8105 Jul 10 05:12 8105 Jul 12 04:32 8105 Jul 19 15:00 8105 Jul 20 09:08 8105 Jul 20 08:34 8105 Jul 20 06:36 8105 Jul 20 10:32 8105 Jul 20 10:32 8105 Jul 23 10:51 8105 Jul 26 03:50 8105 Jul 28 09:17 8105 Aug 02 19:26 8105 Aug 10 11:41 8105 Aug 17 01:50 8105 Sep 14 07:03 8105 Sep 14 07:03 8105 Sep 18 23:43 8105 Sep 21 04:27 8105 Sep 21 04:27	0°5 6°531'48 7°535'38 0° N 4°N08'37 8°N21'36 8°N08'56 4°N23'41 3°N51'45 3°N52'46 3°N52'46 3°N56'16 3°N49'16 1°N41'56 30°R5 28°553'47 27°543'37 0°N 5°N06'32 0°M 12°M28'54 19°M47'06 0°£ 4°£51'39 4°£40'57	18°54'41 -0°13'45 0°13'40 0°13'40 0.56669 AU 26°05'50 1°28'29 1°28'17
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	8104 Jun 23 08:30 8104 Jun 27 22:02 8104 Jul 01 09:23 8104 Jul 04 12:27 8104 Jul 18 19:38 8104 Jul 28 22:55 8104 Jul 30 19:35 8104 Aug 01 17:56 8104 Aug 08 18:02 8104 Aug 10 19:40 8104 Aug 17 02:47 8104 Aug 17 02:47 8104 Sep 04 11:58 8104 Sep 09 07:54 8104 Sep 23 21:35 8104 Sep 27 10:28 8104 Sep 29 20:03 8104 Oct 06 17:23 8104 Oct 06 16:11 8104 Oct 11 08:53 8104 Oct 14 01:08 8104 Oct 27 08:43 8104 Oct 28 16:47 8104 Nov 16 09:52	7°\$27'04 16°\$39'34 23°\$44'13 0°\$\Omega\$2'\Omega\$14'55 27°\Omega\$14'42 27°\Omega\$05'20 26°\Omega\$37'04 23°\Omega\$04'06 23°\Omega\$13'05 21°\Omega\$48'02 18°\Omega\$42'29 17°\Omega\$56'32 24°\Omega\$47'13 0°\$\Omega\$50'05 0°\$\Omega\$50'139 20°\$\Omega\$00'43 19°\$\Omega\$54'10 24°\$\Omega\$11'40 0°\$\Omega\$2'\Omega\$32'43 0°\$\omega\$2'\Omega\$24'13	0°45'04 19°49'34 -2°07'50 2°05'45 0.55249 AU 24°29'32 1°37'50 1°37'49 1.32695 AU	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct morning max el asc. node morning set	8105 Jun 11 11:11 8105 Jun 14 19:05 8105 Jun 28 03:38 8105 Jul 01 16:38 8105 Jul 10 05:12 8105 Jul 12 04:32 8105 Jul 19 15:00 8105 Jul 20 09:08 8105 Jul 20 08:34 8105 Jul 20 08:34 8105 Jul 20 06:36 8105 Jul 20 10:32 8105 Jul 20 10:32 8105 Jul 23 10:51 8105 Jul 26 03:50 8105 Jul 28 09:17 8105 Aug 02 19:26 8105 Aug 10 11:41 8105 Aug 17 01:50 8105 Sep 10 18:34 8105 Sep 14 07:03 8105 Sep 18 23:43 8105 Sep 21 04:27 8105 Sep 21 02:31 8105 Sep 21 02:31 8105 Sep 21 02:31	0°56 6°531'48 7°535'38 0° N 4° N08'37 8° N21'36 8° N08'56 4° N23'41 3° N51'45 3° N52'46 3° N52'46 3° N56'16 1° N41'56 30° R5 28°553'47 27°543'37 0° N 5° N06'32 0° M 12° M28'54 19° M47'06 0° £ 4° £51'39 4° £40'57 6° £34'52	18°54'41 -0°13'45 0°13'40 0°13'40 0.56669 AU 26°05'50
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	8104 Jun 23 08:30 8104 Jun 27 22:02 8104 Jul 01 09:23 8104 Jul 04 12:27 8104 Jul 18 19:38 8104 Jul 28 22:55 8104 Jul 30 19:35 8104 Aug 01 17:56 8104 Aug 08 18:02 8104 Aug 10 19:40 8104 Aug 10 19:40 8104 Aug 17 02:47 8104 Aug 21 16:21 8104 Sep 04 11:58 8104 Sep 09 07:54 8104 Sep 23 21:35 8104 Sep 27 10:28 8104 Sep 29 20:03 8104 Oct 06 16:11 8104 Oct 08 15:35 8104 Oct 11 08:53 8104 Oct 14 01:08 8104 Oct 27 08:43 8104 Oct 28 16:47	7°\$27'04 16°\$39'34 23°\$44'13 0°\$\Omega\$2°\$\Omega\$14'55 27°\$\Omega\$14'42 27°\$\Omega\$05'20 26°\$\Omega\$37'04 23°\$\Omega\$13'05 21°\$\Omega\$48'02 18°\$\Omega\$42'29 17°\$\Omega\$56'32 24°\$\Omega\$47'13 0°\$\Omega\$20'\Omega\$57'05 0°\$\Omega\$501'39 20°\$\Omega\$00'\omega\$11'\omega\$0°\$\Omega\$11'\omega\$0°\$\Omega\$11'\omega\$0°\$\Omega\$2'\omega\$309'30	0°45'04 19°49'34 -2°07'50 2°05'45 0.55249 AU 24°29'32 1°37'50 1°37'49 1.32695 AU	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct morning max el asc. node morning set	8105 Jun 11 11:11 8105 Jun 14 19:05 8105 Jun 15 08:06 8105 Jun 28 03:38 8105 Jul 01 16:38 8105 Jul 10 05:12 8105 Jul 12 04:32 8105 Jul 19 15:00 8105 Jul 20 09:08 8105 Jul 20 08:34 8105 Jul 20 06:36 8105 Jul 20 10:32 8105 Jul 20 10:32 8105 Jul 23 10:51 8105 Jul 26 03:50 8105 Jul 28 09:17 8105 Aug 02 19:26 8105 Aug 10 11:41 8105 Aug 17 01:50 8105 Sep 14 07:03 8105 Sep 14 07:03 8105 Sep 18 23:43 8105 Sep 21 04:27 8105 Sep 21 04:27	0°5 6°531'48 7°535'38 0° N 4°N08'37 8°N21'36 8°N08'56 4°N23'41 3°N51'45 3°N52'46 3°N52'46 3°N56'16 3°N49'16 1°N41'56 30°R5 28°553'47 27°543'37 0°N 5°N06'32 0°M 12°M28'54 19°M47'06 0°£ 4°£51'39 4°£40'57	18°54'41 -0°13'45 0°13'40 0°13'40 0.56669 AU 26°05'50 1°28'29 1°28'17

daga mada	8105 Oct 15 13:53	210M 25/26		dasa mada	9106 Oat 02 10:59	9°M54'58	
desc. node		21°M25'26		desc. node	8106 Oct 02 10:58		26020101
	8105 Oct 21 17:05	0° ∡ 7	25015120	evening max el	8106 Oct 11 18:35	20°M48'07	26°28'01
evening max el	8105 Oct 29 17:37	9° ₹ 00'14	27°15'29	retrograde	8106 Oct 25 16:31	27°M54'15	
retrograde	8105 Nov 12 14:10	16° ≯ 12'14		evening set	8106 Nov 01 08:44	26°M04'32	
evening set	8105 Nov 19 15:44	13° ∡ 56'32		min. Earth dist.	8106 Nov 05 08:02	23°M29'49	0.59340 AU
min. Earth dist.	8105 Nov 23 08:17	11° ∡ ¹09'46	0.61426 AU	inferior conj	8106 Nov 08 12:51	21°M01'56	-4°37'00
inferior conj	8105 Nov 26 09:33	8° ∡ ¹27'51	-3°33'16	minimum elong	8106 Nov 08 20:01	20°M48'05	4°35'12
minimum elong	8105 Nov 26 16:06	8° ∡ 13'19	3°30'57	morning rise	8106 Nov 16 09:38	16° ™ 27'16	
morning rise	8105 Dec 03 18:42	3° ∡ ¹30'59		direct	8106 Nov 18 15:32	16° ™ 09'27	
direct	8105 Dec 06 00:15	3° х 10′07		asc. node	8106 Nov 24 15:04	18°M23'43	
asc. node	8105 Dec 07 18:04	3° х 1007 3° х 23′17		morning max el	8106 Nov 26 11:46	19°M59'55	18°19'21
			17052156	morning max er			10 1921
morning max el	8105 Dec 13 01:16	6° ∡ ′43′05	17°53'56		8106 Dec 03 22:33	0° ∡	
	8105 Dec 28 00:25	0°る		morning set	8106 Dec 12 08:06	15° ∡ 15'36	
morning set	8105 Dec 28 17:58	1° る 19'48			8106 Dec 20 03:27	0°ප	
superior conj	8106 Jan 08 07:22	20° る 11'38	0°23'45	superior conj	8106 Dec 21 13:40	2° る 37'12	0°56'14
minimum elong	8106 Jan 08 09:23	20° ろ 20'23	0°23'35	minimum elong	8106 Dec 21 17:04	2°る52'45	0°55'55
•			0 23 33	•			
desc. node	8106 Jan 11 13:00	25° る 43'49		max. Earth dist.	8106 Dec 29 03:33	16° ට 01'18	1.40870 AU
	8106 Jan 14 02:09	0° ≈		desc. node	8106 Dec 29 10:01	16° පි 28'55	
max. Earth dist.	8106 Jan 15 17:52	2° ≈ 43'57	1.42835 AU	evening rise	8107 Jan 02 17:35	23° る 41'53	
evening rise	8106 Jan 22 04:45	13° ≈ 06′00			8107 Jan 06 15:17	0° ≈	
	8106 Feb 02 06:58	0°) €			8107 Jan 27 05:19	0°) €	
evening max el	8106 Feb 23 08:41	27° ¥ 49'59	22°02'11	evening max el	8107 Feb 06 00:07	11°) 32′42	23°21'46
S	8106 Feb 25 16:13	$0^{\circ}\Upsilon$		retrograde	8107 Feb 16 12:55	17°) (46'30	
retrograde	8106 Mar 04 18:10	3° Υ 23'59		asc. node	8107 Feb 20 14:11	16° ¥ 25'38	
•	8106 Mar 05 17:08	3° Υ 19'18			8107 Feb 21 13:19	15°) (41'25	
asc. node				evening set			1057127
evening set	8106 Mar 09 06:47	1° Y '33'48		inferior conj	8107 Feb 26 23:07	9°) 15′03	1°57'37
	8106 Mar 10 21:48	30° ₹		minimum elong	8107 Feb 26 20:56	9° ∺ 22'31	1°56'58
inferior conj	8106 Mar 14 14:35	25° ¥ 13'53	2°33'43	min. Earth dist.	8107 Feb 26 11:06	9° 升 56′22	0.68338 AU
minimum elong	8106 Mar 14 12:20	25° ∺ 21'41	2°33'09	morning rise	8107 Mar 04 04:31	3°) €09'19	
min. Earth dist.	8106 Mar 14 14:23	25°) 14'35	0.68374 AU	direct	8107 Mar 08 11:01	1°){ 27'43	
morning rise	8106 Mar 19 17:44	19°) 02′53		morning max el	8107 Mar 16 20:40	6° 升 17'35	21°01'54
direct	8106 Mar 24 14:09	16° ¥ 58'44		desc. node	8107 Mar 27 09:36	19°) 17'49	
morning max el	8106 Apr 03 04:22	22°) 37'21	22°24'46		8107 Apr 03 20:41	0°Υ	
desc. node	8106 Apr 09 12:38	29° H 54'22	22 24 40	morning set		19° Υ 01'30	
desc. node				morning set	8107 Apr 16 08:50		
	8106 Apr 09 14:26	0° Υ			8107 Apr 23 06:05	0°8	
	8106 Apr 30 11:45	0°8		max. Earth dist.	8107 Apr 24 00:38	1° 8 15'27	1.42741 AU
morning set	8106 May 06 20:13	10° 8 07'38					
max. Earth dist.	8106 May 11 20:55	18° 8 28'35	1.40703 AU	superior conj	8107 May 01 02:56	13° 8 04'13	-2°05'23
	8106 May 18 12:18	$\Pi^{\circ}0$		minimum elong	8107 May 01 07:17	13° 8 22'40	2°05'15
					8107 May 10 19:28	$\Pi^{\circ}0$	
superior conj	8106 May 19 16:01	2° Ⅲ 03'52	-1°45'07	evening rise	8107 May 12 18:56	3° П 32'22	
minimum elong	8106 May 19 21:48	2°II29'50		asc. node	8107 May 19 13:10	15° ∏ 30'09	
evening rise	8106 May 29 20:40	20° ∏ 54'52	1 44 30	evening max el	8107 May 19 13:10 8107 May 29 10:07	13 П 30 03 29° П 38'13	18°05'59
-	8106 Jun 01 16:08			evening max ci	•	0°99	16 03 39
asc. node		26° Ⅱ 10'21			8107 May 29 19:11		
	8106 Jun 03 18:08	0 \circ		retrograde	8107 Jun 05 01:34	3° 5 02'07	
evening max el	8106 Jun 14 22:43	16° © 39'25	18°20'24	evening set	8107 Jun 07 15:13	2° © 31'38	
retrograde	8106 Jun 22 06:51	20° © 19'55			8107 Jun 11 14:52	30°Ŗ Ⅱ	
evening set	8106 Jun 24 13:06	19° © 59'51		inferior conj	8107 Jun 14 06:50	27° Ⅲ 33'49	2°23'54
inferior conj	8106 Jul 01 21:53	15° © 22'10	1°19'12	minimum elong	8107 Jun 14 09:52	27° Ⅱ 26′29	2°22'58
minimum elong	8106 Jul 02 00:22	15° © 16'58	1°18'13	min. Earth dist.	8107 Jun 17 11:38	24° ∏ 30′05	0.60900 AU
min. Earth dist.	8106 Jul 05 07:22	12° © 34'03	0.58665 AU	morning rise	8107 Jun 21 02:05	21° Ⅲ 37′22	
desc. node	8106 Jul 06 12:03	11° © 39'30		desc. node	8107 Jun 23 09:04	20° Ⅲ 21'58	
	8106 Jul 09 08:24	9° © 50'07		direct	8107 Jun 27 17:03	19° ∏ 25'47	
morning rise							25052112
direct	8106 Jul 15 12:13	8° © 09'15		morning max el	8107 Jul 11 23:59	27° ∏ 24'30	27°52'12
morning max el	8106 Jul 29 21:28	15° © 54'11	27°16'51		8107 Jul 14 11:19	0°€	
	8106 Aug 10 09:22	0 ° Ω			8107 Aug 04 02:10	0 ° Ω	
	8106 Aug 27 13:00	0° m)		morning set	8107 Aug 13 19:50	18° Ω 42'55	
asc. node	8106 Aug 28 15:33	2° Mp 16'46		asc. node	8107 Aug 15 12:32	22° Ω 15′27	
morning set	8106 Aug 29 15:36	4° m/22'32			8107 Aug 19 02:57	0° m/y	
<i>3</i> ·		4		max. Earth dist.	8107 Aug 19 18:41	1° Mp 26'03	1.31837 AU
superior conj	8106 Sep 05 16:16	19° m 41'16	1°13'55	Lartii dist.	510, 11ug 17 10.71	. 1,2003	1.5.105 / 110
	-			gunariar agg:	9107 Aug 21 02:06	10 mm 2 411 4	0054122
minimum elong	8106 Sep 05 14:01	19° Mp 28'48	1°13'33	superior conj	8107 Aug 21 03:06	4° Mp 24'14	0°54'33
max. Earth dist.	8106 Sep 05 09:26	19° Mp 03'22	1.31672 AU	minimum elong	8107 Aug 21 01:01	4° Mp 12'45	0°54'06
	8106 Sep 10 08:25	0∘ ⊽		evening rise	8107 Aug 27 21:28	19° m 13'49	
evening rise	01066 10 10 56	4° ₽ 32'03			0107 0 02 02.42	0∘ ত	
	8106 Sep 12 10:56				8107 Sep 02 02:43	0 ==	
	8106 Sep 12 10:36 8106 Sep 25 21:10	0°M		desc. node	8107 Sep 02 02:43 8107 Sep 19 08:02	27° £ 20'02	

evening max el	8107 Sep 21 17:27 8107 Sep 23 11:22	0°M 1°M45'06	25°10'27	evening rise	8108 Aug 11 09:06 8108 Aug 25 07:38	3°№55'40 0° 乒	
retrograde	8107 Oct 07 08:37	8°M45'42		evening max el	8108 Sep 03 23:02	12° ≙ 06'17	23°34'35
evening set	8107 Oct 13 02:38	7°M30'17		desc. node	8108 Sep 05 05:05	13° ≏ 16′00	
min. Earth dist.	8107 Oct 17 22:58	4° ™ 49'32	0.57337 AU	retrograde	8108 Sep 17 12:43	18° ≏ 53'45	
inferior conj	8107 Oct 20 20:48	2°M52'41		evening set	8108 Sep 21 20:34	18° ≙ 12'47	
minimum elong	8107 Oct 21 01:14	2°M45'13	5°22'04	min. Earth dist.	8108 Sep 28 09:03	15° ≏ 07'30	0.55719 AU
	8107 Oct 25 14:15	30° ₹ Ω		inferior conj	8108 Sep 30 08:42	13° £ 56'36	
morning rise	8107 Oct 29 02:10	28° £ 41'04		minimum elong	8108 Sep 30 06:26	14° £ 00'00	5°31'48
direct	8107 Oct 31 12:58	28° £ 23'30 0° IL		morning rise	8108 Oct 08 18:27	10° ♀ 02'57	
morning may al	8107 Nov 06 01:52 8107 Nov 09 13:29	2°M41'24	19°06'02	direct morning max el	8108 Oct 11 15:03 8108 Oct 22 03:19	9° £ 42'48 14° £ 38'32	20°15'01
morning max el asc. node	8107 Nov 09 13:29 8107 Nov 11 12:04	4°M43'55	19 00 02	asc. node	8108 Oct 22 03:19 8108 Oct 28 09:05	22° £ 08'43	20 13 01
morning set	8107 Nov 26 07:37	29°M36'39		asc. node	8108 Nov 02 05:08	0°M	
morning set	8107 Nov 26 12:20	0° ⊼ ¹		morning set	8108 Nov 09 13:25	14°ML14'23	
				8 - 11			
superior conj	8107 Dec 04 14:12	15° ∡ ′54'43	1°19'29	superior conj	8108 Nov 17 04:10	29°M50'38	1°34'00
minimum elong	8107 Dec 04 17:18	16° ₹ ′09'35	1°19'18	minimum elong	8108 Nov 17 06:08	0° ∡ ¹00'33	1°34'00
max. Earth dist.	8107 Dec 11 09:17	28° ₹ 34'42	1.38708 AU		8108 Nov 17 06:02	0° ∡ ¹	
	8107 Dec 12 04:20	5°0		max. Earth dist.	8108 Nov 22 15:47	10° ∡ ³37′02	1.36611 AU
evening rise	8107 Dec 15 04:24	5° る 16'20		evening rise	8108 Nov 26 11:43	17° ∡ ¹45'35	
desc. node	8107 Dec 16 07:01	7° る 10'34		desc. node	8108 Dec 02 04:03	27° ∡ ¹45′00	
	8107 Dec 30 16:35	0° ≈			8108 Dec 03 12:07	0°ಕ	
evening max el	8108 Jan 19 13:26	25°≈18'22	24°40'42		8108 Dec 23 23:49	0° ≈	0.50.5.11.5.5
. 1	8108 Jan 25 05:01	0°) (0,4155		evening max el	8109 Jan 01 02:31	9°≈05'44	25°51'57
retrograde	8108 Jan 31 03:59	2°) €04'55		retrograde	8109 Jan 13 14:20	16°≈13'47	
ovening set	8108 Feb 05 10:21 8108 Feb 05 16:53	30°R≈ 29°≈46'27		evening set min. Earth dist.	8109 Jan 19 15:52 8109 Jan 23 22:49	13°≈44'40 9°≈08'21	0.67095 AU
evening set asc. node	8108 Feb 03 10:33 8108 Feb 07 11:15	29 ≈40 27 28°≈02'58		asc. node	8109 Jan 24 08:18	9 ≈0821 8°≈38'42	0.07093 AU
min. Earth dist.	8108 Feb 10 06:38	24°≈35'40	0.67905 AU	inferior conj	8109 Jan 25 09:34	7°≈18'57	0°21'00
inferior conj	8108 Feb 11 06:03	23°≈17'49	1°13'14	minimum elong	8109 Jan 25 09:02	7°≈20'40	0°20'53
minimum elong	8108 Feb 11 04:26	23° ≈ 23'13	1°12'42	morning rise	8109 Jan 31 02:45	1° ≈ 28'30	
morning rise	8108 Feb 16 16:10	17° ≈ 18'48		direct	8109 Feb 03 08:44	0° ≈ 28'02	
direct	8108 Feb 20 09:41	15° ≈ 59'02		morning max el	8109 Feb 10 04:10	4° ≈ 11'38	18°55'08
morning max el	8108 Feb 27 20:35	20° ≈ 09'47	19°50'59	desc. node	8109 Feb 28 03:31	29° ≈ 21'47	
	8108 Mar 06 21:35	0° ∀			8109 Feb 28 13:22	0° ∀	
greatest brilliancy	8108 Mar 11 20:13	7°) €03'10	-0.6m	morning set	8109 Mar 04 12:57	6° 米 11'47	
desc. node	8108 Mar 13 06:33	9° ∺ 09'26		max. Earth dist.	8109 Mar 19 03:19	28° ¥ 59'56	1.45279 AU
morning set	8108 Mar 25 06:20	27° ¥ 19′20			8109 Mar 19 18:37	0° Y	
	8108 Mar 26 23:58	0°Υ′				00	
max. Earth dist.	8108 Apr 05 11:10	14° Ƴ 50'08	1.44325 AU	superior conj	8109 Mar 21 01:39	2° Υ 01'57	
	0100 4 10 12:02	22° Ƴ 59'18	2011122	minimum elong	8109 Mar 20 17:53	1° Υ 31'22 26° Υ 04'18	1°5/'54
superior conj minimum elong	8108 Apr 10 13:02 8108 Apr 10 12:01	22° Υ 55'08		evening rise	8109 Apr 05 02:41 8109 Apr 07 12:43	0° 8	
minimum clong	8108 Apr 14 19:53	0° 8	2 11 30	asc. node	8109 Apr 22 07:15	22° 8 44'38	
evening rise	8108 Apr 23 22:13	15° 8 17'25		evening max el	8109 Apr 25 11:41	26° 8 25'44	18°33'39
e vennig rise	8108 May 02 15:29	0°Ⅱ		retrograde	8109 May 02 00:07	29° 8 58'59	10 33 37
asc. node	8108 May 05 10:12	4° Ⅱ 24'12		evening set	8109 May 05 04:19	29° 8 02'11	
evening max el	8108 May 11 23:24	12° Ⅱ 55'57	18°10'40	inferior conj	8109 May 10 21:29	23° 8 28'29	3°21'05
retrograde	8108 May 18 08:42	16° Ⅱ 17'49		minimum elong	8109 May 10 22:18	23° 8 26'01	3°20'55
evening set	8108 May 21 05:37	15° ∏ 34'51		min. Earth dist.	8109 May 12 23:19	20° 8 59'05	0.64991 AU
inferior conj	8108 May 27 08:03	10° Ⅱ 18′26	3°02'52	morning rise	8109 May 16 15:30	17° 8 12'09	
minimum elong	8108 May 27 10:13	10° Ⅱ 12'31	3°02'23	direct	8109 May 23 06:34	14° 8 25'58	
min. Earth dist.	8108 May 30 00:55	7° Ⅱ 22'29	0.63080 AU	desc. node	8109 May 27 03:06	15° 8 14'00	
morning rise	8108 Jun 02 13:18	4° Ⅱ 08'09		morning max el	8109 Jun 05 17:32	22° 8 21'10	27°11'51
direct	8108 Jun 09 07:50	1° ∏ 33'18			8109 Jun 12 10:35	0° Ⅱ 0° ©	
desc. node morning max el	8108 Jun 09 06:05 8108 Jun 23 07:34	1° П 33'19 9° П 36'24	27940121	morning set	8109 Jul 02 10:21 8109 Jul 11 06:07	0°99 16°9910'34	
morning max er	8108 Jul 09 04:26	9°Д36°24 0°©	∠1 7 9∠1	max. Earth dist.	8109 Jul 11 08:07 8109 Jul 15 18:18	25°909'15	1.33589 AU
	8108 Jul 26 09:09	0°Ω		max. Lartii dist.	8109 Jul 18 02:36	0°Ω	1.5550) AU
morning set	8108 Jul 27 17:37	2° Ω 41'41		asc. node	8109 Jul 19 06:29	2° Ω 26'15	
asc. node	8108 Aug 01 09:31	12° Ω 20'08				00-010	
max. Earth dist.	8108 Aug 01 22:51	13° £ 31′01	1.32467 AU	superior conj	8109 Jul 19 14:12	3° Ω 06'53	0°03'16
	-			minimum elong	8109 Jul 19 14:02	3° Q 06'00	0°03'07
superior conj	8108 Aug 04 11:05	18° Ω 54'55	0°30'48	behind sun begin	8109 Jul 19 08:32	2° Ω 37′03	
minimum elong	8108 Aug 04 09:42	18° Ω 47'21	0°30'26	behind sun end	8109 Jul 19 19:31	3° Ω 34'59	
	8108 Aug 09 13:18	0° m		evening rise	8109 Jul 26 19:58	18° Ω 31'34	

	8109 Aug 01 11:37	0°m		asc. node	8110 Jul 06 03:30	22° © 30'24	
evening max el	8109 Aug 16 13:18	22° m)22'16	21°56'35	use. noue	8110 Jul 09 18:05	0°Ω	
desc. node	8109 Aug 23 02:10	27° mp 10'50	21 3033	evening rise	8110 Jul 11 04:07	2°Ω56'05	
retrograde	8109 Aug 29 04:45	28° m 39'03		evening rise	8110 Jul 26 18:47	0° m)	
evening set	8109 Sep 01 01:51	28° m 20'33		evening max el	8110 Jul 29 14:01	3° Mp 06'00	20°30'28
min. Earth dist.	8109 Sep 09 17:35	24° m/ 36'16	0.54806 AU	retrograde	8110 Aug 09 16:50	8° Mp 35'45	20 30 20
inferior conj	8109 Sep 10 05:09	24° m/20'04		desc. node	8110 Aug 09 23:15	8° Mp 35'34	
minimum elong	8109 Sep 10 03:09 8109 Sep 09 20:30	24° m 32'12		evening set	8110 Aug 11 17:32	8° m) 25'33	
morning rise	8109 Sep 18 16:30	20° m 31'20	4 4037	inferior conj	8110 Aug 20 22:08	4° m) 28'23	3017127
direct	8109 Sep 18 10:30 8109 Sep 22 02:48	20° my 05'24		minimum elong	•	4° my 40'44	3°11'40
	1		21944157	Č	8110 Aug 20 13:35	-	
morning max el	8109 Oct 04 04:07	25° Mp 46'05	21-44-57	min. Earth dist.	8110 Aug 22 03:09	3° M) 46'27	0.54815 AU
1	8109 Oct 08 02:40	0∘ ⊽		morning rise	8110 Aug 29 09:08	0° Mp 24'36	
asc. node	8109 Oct 15 06:05	10° £ 22'45			8110 Aug 31 04:21	30°R€	
morning set	8109 Oct 24 23:02	29° Ω 01'08		direct	8110 Sep 02 11:50	29° Ω 48′20	
	8109 Oct 25 10:16	0°M₊			8110 Sep 04 18:41	0° m)	22020150
	010031 01 02 25	1.4070 1.010.1	104045	morning max el	8110 Sep 15 19:20	6° Mp 14'24	23°28'50
superior conj	8109 Nov 01 03:35	14°M12'31		asc. node	8110 Oct 02 03:06	29° m 14'11	
minimum elong	8109 Nov 01 04:12	14° M 15'47	1°40'50		8110 Oct 02 12:57	0∘ ত	
max. Earth dist.	8109 Nov 05 04:16	22°M30'24	1.34778 AU	morning set	8110 Oct 09 10:32	13° ≏ 51'16	
	8109 Nov 08 23:23	0° ∡ 7					
evening rise	8109 Nov 09 11:40	0° ≯ 58'56		superior conj	8110 Oct 16 09:22	28° ≏ 51'23	1°40'40
desc. node	8109 Nov 19 01:05	18° ₰ 06'43		minimum elong	8110 Oct 16 08:46	28° ≏ 48'05	1°40'43
	8109 Nov 26 13:08	0°ප			8110 Oct 16 22:07	0° M	
evening max el	8109 Dec 14 15:52	22° る 47'56	26°48'09	max. Earth dist.	8110 Oct 19 01:08	4° ጤ 32'12	1.33330 AU
	8109 Dec 26 10:43	0° ≈		evening rise	8110 Oct 24 00:24	14° M 46'10	
retrograde	8109 Dec 27 19:04	0° ≈ 05'55			8110 Nov 01 02:44	0° ∡ ¹	
	8109 Dec 29 02:39	30°Ŗ₹		desc. node	8110 Nov 05 22:08	8° ₹ 09'38	
evening set	8110 Jan 03 08:20	27° ප 30'31			8110 Nov 21 08:55	0°ರ	
min. Earth dist.	8110 Jan 07 09:14	23° る 28'47	0.65921 AU	evening max el	8110 Nov 27 04:34	6° る 14'09	27°22'03
inferior conj	8110 Jan 09 07:34	21° る 13'28	-0°38'31	retrograde	8110 Dec 10 17:32	13° る 33'35	
minimum elong	8110 Jan 09 08:40	21° る 10'17		evening set	8110 Dec 17 15:59	10° る 58'14	
asc. node	8110 Jan 11 05:23	19° る 03'28	0 3 / 5 .	min. Earth dist.	8110 Dec 21 11:37	7° る 29'57	0.64401 AU
morning rise	8110 Jan 15 10:00	15° る 34'09		inferior conj	8110 Dec 23 21:37	4° る 55'50	
direct	8110 Jan 18 06:14	14° る 49'33		minimum elong	8110 Dec 24 00:49	4° る 47'19	
morning max el	8110 Jan 24 17:41	14 3 4933	18°15'42	asc. node	8110 Dec 24 00:49 8110 Dec 29 02:28	0°る13'56	1 42 39
morning max er	8110 Jan 24 17:41 8110 Feb 02 14:13	0°≈	10 1342	asc. node	8110 Dec 29 02.28 8110 Dec 29 11:43	0 013 30 30°R.∡7	
morning set		0 ∞ 16°≈27'26		morning rice		29° ∡ ¹30'38	
Č	8110 Feb 12 22:26			morning rise	8110 Dec 30 11:12		
desc. node	8110 Feb 15 00:29	19° ≈ 48'43		direct	8111 Jan 01 23:41	28° ₹ '58'09	
	8110 Feb 21 09:32	0°) €			8111 Jan 05 11:27	0°る	17052116
	0110 F 1 20 07 27	100 1/ 50/26	102/100	morning max el	8111 Jan 08 10:33	2°る20'47	17°53'16
superior conj	8110 Feb 28 06:26	10° ¥ 50′26		morning set	8111 Jan 25 12:53	28° පි 08'21	
minimum elong	8110 Feb 27 21:08	10°) 13′57			8111 Jan 26 15:24	0° ≈	
max. Earth dist.	8110 Mar 01 22:51		1.45500 AU	desc. node	8111 Feb 01 21:26	10° ≈ 25'30	
	8110 Mar 12 12:39	0° Υ					
evening rise	8110 Mar 16 08:19	5° Y 57'56		superior conj	8111 Feb 07 22:41	20° ≈ 16'43	
greatest brilliancy	8110 Mar 27 15:58	23° Y 32'46	-0.7m	minimum elong	8111 Feb 07 17:47	19° ≈ 56'58	0°42'00
	8110 Mar 31 23:49	9° 8		max. Earth dist.	8111 Feb 12 18:34	27° ≈ 58′25	1.44977 AU
evening max el	8110 Apr 08 20:37	10° 8 01'56	19°13'56		8111 Feb 14 01:25	0° ∀	
asc. node	8110 Apr 09 04:19	10° 8 21'08		evening rise	8111 Feb 23 22:14	15° ∺ 19'32	
retrograde	8110 Apr 15 20:25	13° 8 58'42			8111 Mar 05 14:00	0° Y	
evening set	8110 Apr 19 08:23	12° 8 47'19		greatest brilliancy	8111 Mar 10 18:42	7° Ƴ 41'57	-0.6m
inferior conj	8110 Apr 24 19:38	6° 8 57'50	3°23'06	evening max el	8111 Mar 23 00:30	23° Y 39'46	20°09'50
minimum elong	8110 Apr 24 19:10	6° 8 59'20	3°23'00	asc. node	8111 Mar 27 01:25	26° Ƴ 59'54	
min. Earth dist.	8110 Apr 26 06:05	5° 8 06'32	0.66505 AU	retrograde	8111 Mar 30 18:50	28° Ƴ 10'17	
morning rise	8110 Apr 30 05:34	0° 8 40'03		evening set	8111 Apr 03 15:24	26° Ƴ 43'55	
	8110 May 01 00:43	30° ₹Ƴ		inferior conj	8111 Apr 08 23:33	20° Ƴ 40′29	3°12'11
direct	8110 May 06 11:49	27° Y 54'56		minimum elong	8111 Apr 08 22:05	20° Y 45'26	3°11'57
	8110 May 12 15:11	0°8		min. Earth dist.	8111 Apr 09 19:35	19° Ƴ 32'32	0.67575 AU
desc. node	8110 May 14 00:07	0° 8 55'50		morning rise	8111 Apr 14 04:33	14° Y °23'56	
morning max el	8110 May 19 03:44	5° 8 28'09	26°07'21	direct	8111 Apr 19 22:40	11° Y '49'52	
				desc. node	8111 Apr 30 21:07	18° Y ′06'56	
		Π°					
morning set	8110 Jun 06 23:55	0°Ⅱ 29°Ⅱ00'24			-	18° ℃ 46'48	24°45'17
morning set	8110 Jun 06 23:55 8110 Jun 24 05:50	29° Ⅱ 00′24		morning max el	8111 May 01 13:07	18° Ƴ 46'48 0° ႘	24°45'17
-	8110 Jun 06 23:55 8110 Jun 24 05:50 8110 Jun 24 18:38	29°∏00'24 0°©	1 35194 AII		8111 May 01 13:07 8111 May 11 00:31	0° 8	24°45'17
morning set max. Earth dist.	8110 Jun 06 23:55 8110 Jun 24 05:50	29° Ⅱ 00′24	1.35194 AU	morning max el	8111 May 01 13:07 8111 May 11 00:31 8111 May 31 02:05	0°B 8°0	24°45'17
max. Earth dist.	8110 Jun 06 23:55 8110 Jun 24 05:50 8110 Jun 24 18:38 8110 Jun 28 03:13	29°II00'24 0°S 6°S23'18		morning max el	8111 May 01 13:07 8111 May 11 00:31 8111 May 31 02:05 8111 Jun 06 11:59	0°₩ 0°Ⅲ 10°Ⅲ57'52	
-	8110 Jun 06 23:55 8110 Jun 24 05:50 8110 Jun 24 18:38	29°∏00'24 0°©	-0°27'10	morning max el	8111 May 01 13:07 8111 May 11 00:31 8111 May 31 02:05	0°B 8°0	24°45'17 1.37196 AU

superior conj	8111 Jun 16 19:13	0°506'41	-0°58'55		8112 May 22 13:53	0°Щ	
minimum elong	8111 Jun 16 22:49	0° ട്ട 24'15	0°58'27				
	8111 Jun 16 17:51	0 \circ \odot		superior conj	8112 May 29 14:07	12° Ⅲ 36'35	
asc. node	8111 Jun 23 00:31	12° © 28'00		minimum elong	8112 May 29 19:28	13° Ⅱ 01'22	1°28'56
evening rise	8111 Jun 25 07:03	17° © 01'37			8112 Jun 07 17:29	0	
	8111 Jul 02 00:44	0 \circ Ω		evening rise	8112 Jun 08 01:53	0° © 40'30	
evening max el	8111 Jul 12 03:57	14° Ω 33'18	19°23'34	asc. node	8112 Jun 08 21:32	2° © 15'00	
retrograde	8111 Jul 21 13:57	19° Ω 12'18		evening max el	8112 Jun 24 05:12	26°5543'40	18°37'35
evening set	8111 Jul 23 10:43	19° Ω 02'08			8112 Jun 28 20:43	0°N	
desc. node	8111 Jul 27 20:20	17° Ω 27'25	1015155	retrograde	8112 Jul 02 04:29	0° Ω 41'07	
inferior conj	8111 Aug 01 02:13	14° Ω 54'41		evening set	8112 Jul 04 06:21	0° £ 25′53	
minimum elong	8111 Jul 31 22:44	15° Ω 00'22	1°16'42		8112 Jul 05 15:25	30°Rூ	0020102
min. Earth dist.	8111 Aug 03 15:53	13° Ω 14'44 10° Ω 18'02	0.55761 AU	inferior conj	8112 Jul 12 02:26	26°500'20	0°29'02
morning rise direct	8111 Aug 09 08:04 8111 Aug 14 06:10	9° Ω 23'11		minimum elong desc. node	8112 Jul 12 03:30 8112 Jul 13 17:24	25°\$58'17 24°\$45'55	0°28'30
morning max el	8111 Aug 14 00:10 8111 Aug 28 07:56	9 ∂(23 11 16° Ω 28'43	25012151	min. Earth dist.	8112 Jul 15 17.24 8112 Jul 15 09:22	24 94 3 33 23° 9 31'27	0.57464 AU
morning max er	8111 Sep 08 07:30	0° mp	23 12 31	morning rise	8112 Jul 19 21:08	23 3 31 27 20° 5 46'33	0.37404 AU
asc. node	8111 Sep 19 00:05	18° Mp 33'21		direct	8112 Jul 25 15:17	19° © 23'39	
morning set	8111 Sep 19 00:03 8111 Sep 23 22:11	28° Mp 39'48		morning max el	8112 Jul 23 13:17 8112 Aug 09 00:02	26°\$58'02	26°39'58
morning set	8111 Sep 24 13:11	0° ʊ		morning max ci	8112 Aug 09 00:02 8112 Aug 11 21:58	20 3 38 02 0° Ω	20 39 38
	6111 Sep 24 15.11	0 –			8112 Aug 31 17:12	0° mp	
superior conj	8111 Sep 30 19:06	13° Ω 39'44	1°34'32	asc. node	8112 Sep 04 21:02	8° Mp 12'39	
minimum elong	8111 Sep 30 17:32	13° ⊆ 31'10		morning set	8112 Sep 07 08:18	13° m) 21'30	
max. Earth dist.	8111 Oct 02 05:24	16° Ω 47'47	1.32320 AU	morning sec	011 2 5 0 p 07 00.10	15 142150	
evening rise	8111 Oct 07 22:33	28° ≏ 58'28	-10-11-11-1	superior conj	8112 Sep 14 06:40	28° mp 30'53	1°22'55
<i>y</i>	8111 Oct 08 10:32	0°M		minimum elong	8112 Sep 14 04:33	28° m) 19'07	1°22'38
desc. node	8111 Oct 23 19:12	27°M45'51		max. Earth dist.	8112 Sep 14 14:19	29° m 13'19	1.31772 AU
	8111 Oct 25 06:04	0° ∡ ¹			8112 Sep 14 22:45	0∘ <u>v</u>	
evening max el	8111 Nov 09 14:37	19° ∡ 11'37	27°27'20	evening rise	8112 Sep 21 03:18	13° ≏ 27'47	
retrograde	8111 Nov 23 09:19	26° х 27′48			8112 Sep 29 12:07	0° M	
evening set	8111 Nov 30 11:55	24° ₰ 01'32		desc. node	8112 Oct 09 16:16	16°M44'03	
min. Earth dist.	8111 Dec 04 04:11	21° ₹ 02'17	0.62571 AU		8112 Oct 20 07:49	0° ∡ ¹	
inferior conj	8111 Dec 07 00:52	18° ₰ 19'09	-2°53'26	evening max el	8112 Oct 21 19:35	1° ∡ 727'41	26°59'28
minimum elong	8111 Dec 07 06:20	18° ₰ 06'08	2°51'16	retrograde	8112 Nov 04 17:20	8° ∡ ³38′06	
morning rise	8111 Dec 14 02:50	13° ⊀ 11′22		evening set	8112 Nov 11 16:08	6° ∡ ³32′02	
asc. node	8111 Dec 15 23:32	12° ≯ 48'13		min. Earth dist.	8112 Nov 15 10:07	3° ≯ 52′18	0.60533 AU
direct	8111 Dec 16 10:00	12° ∡ ⁴47′20		inferior conj	8112 Nov 18 13:55	1° ≯ 14'00	-4°01'38
morning max el	8111 Dec 23 03:42	16° ∡ 13'59	17°48'27	minimum elong	8112 Nov 18 21:01	0° ≯ 759'08	3°59'25
	8112 Jan 01 20:29	0°ಕ			8112 Nov 20 01:52	30°RM	
morning set	8112 Jan 08 02:47	10°る56'50		morning rise	8112 Nov 26 04:17	26°M26'31	
	8112 Jan 19 02:05	0° ≈		direct	8112 Nov 28 09:18	26°M07'27	
	0110 1 10 14 54	00 53150	0001105	asc. node	8112 Dec 01 20:34	26°M56'43	10000110
superior conj	8112 Jan 19 14:54	0°≈53'59		morning max el	8112 Dec 05 17:40	29°M47'01	18°02'18
minimum elong	8112 Jan 19 15:01 8112 Jan 19 06:02	0°≈54'26 0°≈16'40	0°01'12	morning set	8112 Dec 05 22:54	0° ҂ 24° ҂ 32'25	
behind sun begin behind sun end	8112 Jan 19 06.02 8112 Jan 19 24:00	0 ≈1040 1°≈32'07		morning set	8112 Dec 21 09:35	24 x・3223 0°る	
desc. node	8112 Jan 19 18:26	1 ≈3207 1°≈08'48			8112 Dec 24 08:13	0.0	
max. Earth dist.	8112 Jan 26 11:17	12°≈10'16	1.43774 AU	superior conj	8112 Dec 31 08:19	12° る 42'51	0°38'37
evening rise	8112 Feb 03 10:40	24°≈45'50	1.43774710	minimum elong	8112 Dec 31 11:12	12° ろ 55'35	0°38'21
e vening rise	8112 Feb 06 20:26	0° ∀		desc. node	8113 Jan 05 15:23	21°る54'03	0 3021
	8112 Feb 27 16:54	0°Υ		max. Earth dist.	8113 Jan 07 23:12	25° る 48'46	1.42034 AU
evening max el	8112 Mar 04 22:48	7° Υ 18'59	21°18'27		8113 Jan 10 12:05	0° ≈	
asc. node	8112 Mar 12 22:31	12° Y 26'37		evening rise	8113 Jan 13 11:58	4°≈50'29	
retrograde	8112 Mar 13 17:11	12° Y 29'43		C	8113 Jan 30 03:34	0° ∀	
evening set	8112 Mar 17 23:31	10° Ƴ 48'16		evening max el	8113 Feb 15 16:19	21° ¥ 00'10	22°35'40
inferior conj	8112 Mar 23 06:52		2°50'33	retrograde	8113 Feb 25 13:40	26° ¥ 52'04	
minimum elong	8112 Mar 23 04:48	4° Y 40'33	2°50'05	asc. node	8113 Feb 27 19:37	26° ¥ 26'33	
min. Earth dist.	8112 Mar 23 13:46	4° Y 09′25	0.68206 AU	evening set	8113 Mar 02 07:03	24°) 55′40	
	8112 Mar 26 18:34	30° ₹ ₩		inferior conj	8113 Mar 07 15:30	18°) 32′27	2°19'29
morning rise	8112 Mar 28 09:54	28° ¥ 19'43		minimum elong	8113 Mar 07 13:14	18° ¥ 40′20	2°18'52
direct	8112 Apr 02 14:18	26° ∺ 03′29		min. Earth dist.	8113 Mar 07 10:15	18° ¥ 50'40	0.68409 AU
	8112 Apr 10 14:17	$0^{\circ}\Upsilon$		morning rise	8113 Mar 12 19:16	12°) 23′14	
morning max el	8112 Apr 12 22:38	2° Y 12'35	23°15'44	direct	8113 Mar 17 09:41	10°) €28'30	
desc. node	8112 Apr 16 18:05	6° Y 23'04		morning max el	8113 Mar 26 11:18	15°) 45′59	21°48'12
	8112 May 04 01:04	0°8		desc. node	8113 Apr 03 15:02	25° ¥ 25'47	
morning set	8112 May 17 19:03	21° 8 48'59			8113 Apr 07 00:14	0° Υ	
max. Earth dist.	8112 May 21 22:44	28° 8 54'05	1.39422 AU		8113 Apr 27 01:48	0°B	

morning set max. Earth dist.	8113 Apr 27 22:40 8113 May 03 21:58	1° 8 23'15 11° 8 07'13	1.41612 AU	max. Earth dist.	8114 Apr 16 04:45 8114 Apr 19 17:20	24° Y 16′23 0° ∀	1.43489 AU
superior conj	8113 May 11 14:04	24° 8 12'58	-1°55'03	superior conj	8114 Apr 22 14:40	4° 8 46'13	-2°10'05
minimum elong	8113 May 11 19:40	24° 8 37'29	1°54'41	minimum elong	8114 Apr 22 17:12	4° 8 56'46	2°10'06
	8113 May 14 20:23	$\Pi^{\circ}0$		evening rise	8114 May 04 23:39	25° 8 59'42	
evening rise	8113 May 22 08:54	13° Ⅱ 43'18			8114 May 07 06:27	Π °0	
asc. node	8113 May 26 18:34	21° Ⅱ 46'31		asc. node	8114 May 13 15:36	10° Ⅱ 56′23	
	8113 May 31 12:51	0 \circ \odot		evening max el	8114 May 22 02:44	22° ∏ 36'45	18°05'42
evening max el	8113 Jun 07 14:05	9° © 28'19	18°11'56	retrograde	8114 May 28 14:09	25° ∏ 57'43	
retrograde	8113 Jun 14 13:38	12°559'34		evening set	8114 May 31 07:03	25° Ⅱ 21'58	20.4244.0
evening set	8113 Jun 16 23:06	12°935'22	1050105	inferior conj	8114 Jun 06 16:32	20° I 15'57	
inferior conj minimum elong	8113 Jun 24 00:10 8113 Jun 24 03:08	7° 5 49'21 7° 5 42'44	1°50'05 1°49'01	minimum elong min. Earth dist.	8114 Jun 06 19:19 8114 Jun 09 16:49	20° Ⅲ 08'53 17° Ⅲ 13'08	2°42'32 0.61855 AU
min. Earth dist.	8113 Jun 27 09:05	4°951'22	0.59607 AU	morning rise	8114 Jun 13 05:36	17 П 13 08 14° П 12'50	0.01833 AU
desc. node	8113 Jun 30 14:26	2°926'47	0.37007 AC	desc. node	8114 Jun 17 11:29	12° Д 09'18	
morning rise	8113 Jul 01 04:12	2° © 05'41		direct	8114 Jun 19 23:10	11° I I50'12	
direct	8113 Jul 07 13:53	0°910'54		morning max el	8114 Jul 04 03:16	19° Ⅱ 51'07	27°55'34
morning max el	8113 Jul 21 22:30	8° © 03'03	27°36'30	S	8114 Jul 12 19:06	0ಂತಾ	
	8113 Aug 07 14:33	$0^{\circ}\Omega$			8114 Jul 31 13:11	$0^{\circ}\Omega$	
morning set	8113 Aug 22 15:13	27° Ω 51'34		morning set	8114 Aug 06 16:59	12° Ω 03′23	
asc. node	8113 Aug 22 17:59	28° Ω 06′00		asc. node	8114 Aug 09 14:56	18° Ω 07'38	
	8113 Aug 23 15:37	0° ™		max. Earth dist.	8114 Aug 12 08:08	23° Ω 57′26	1.32052 AU
max. Earth dist.	8113 Aug 29 00:32	11° m 40'38	1.31682 AU				
				superior conj	8114 Aug 14 04:08	27° Ω 57'27	0°45'00
superior conj	8113 Aug 29 18:18	13° m 19'00	1°06'16	minimum elong	8114 Aug 14 02:17	27° Ω 47'16	0°44'33
minimum elong	8113 Aug 29 16:03	13° Mp 06'35	1°05'52		8114 Aug 15 02:28	0° m/y	
evening rise	8113 Sep 05 12:19	28° Mp 07′27 0° <u> </u>		evening rise	8114 Aug 20 23:33	12°₯50'11 0°₽	
	8113 Sep 06 09:31 8113 Sep 23 01:25	0°M.		desc. node	8114 Aug 29 13:37 8114 Sep 13 10:25	0 <u>≈</u> 21° ≏ 39'49	
desc. node	8113 Sep 25 01.23 8113 Sep 26 13:20	4°M49'13		evening max el	8114 Sep 15 10.23 8114 Sep 15 07:19	21 2 3949 23° 2 33'38	24°31'01
evening max el	8113 Oct 03 17:15	12°M54'32	25°58'22	evening max er	8114 Sep 25 12:33	0°M	24 31 01
retrograde	8113 Oct 17 15:37	19°M58'24	23 30 22	retrograde	8114 Sep 29 02:15	0°M29'16	
evening set	8113 Oct 23 23:49	18°M22'56			8114 Oct 02 16:43	30°R Ω	
min. Earth dist.	8113 Oct 28 06:05	15°M47'43	0.58458 AU	evening set	8114 Oct 04 06:59	29° Ω 29'18	
inferior conj	8113 Oct 31 09:20	13°M31'09	-4°59'35	min. Earth dist.	8114 Oct 09 18:18	26° ≏ 40'17	0.56588 AU
minimum elong	8113 Oct 31 15:51	13°M19'15	4°58'17	inferior conj	8114 Oct 12 08:33	25° ≏ 01'48	-5°32'11
morning rise	8113 Nov 08 10:12	9° M 06'04		minimum elong	8114 Oct 12 10:32	24° ≏ 58'40	5°32'02
direct	8113 Nov 10 17:28	8°M48'45		morning rise	8114 Oct 20 16:15	20° ჲ 58'41	
asc. node	8113 Nov 18 17:33	12°M32'52		direct	8114 Oct 23 06:55	20° ≙ 40'11	
morning max el	8113 Nov 19 00:49	12°M50'05	18°36'27	morning max el	8114 Nov 01 21:39	25° £ 12'50	19°32'38
	8113 Nov 30 14:50	0° 🗷		asc. node	8114 Nov 05 14:33	29° Ω 22'01	
morning set	8113 Dec 05 04:09	8° ≯ 40'18		morning set	8114 Nov 06 02:09 8114 Nov 19 06:41	0°M 23°M09′24	
superior conj	8113 Dec 13 22:58	25° ₹ 31'56	1°07'12	morning set	8114 Nov 22 16:06	23 1160924 0° x 7	
minimum elong	8113 Dec 14 02:23	25° × 47'55	1°06'55		6114 NOV 22 10.00	0 🗴	
minimum ciong	8113 Dec 16 08:55	29 × 47 33	1 00 33	superior conj	8114 Nov 27 05:43	9° √ 06'58	1°26'40
max. Earth dist.	8113 Dec 21 06:45	8° る 46'37	1.39963 AU	minimum elong	8114 Nov 27 08:24	9° ∡ °20′05	1°26'33
desc. node	8113 Dec 23 12:23	12° る 38'05		max. Earth dist.	8114 Dec 03 12:33	21° х 05′59	1.37799 AU
evening rise	8113 Dec 25 10:08	15° る 51'31		evening rise	8114 Dec 07 06:01	27° ∡ ¹49'54	
	8114 Jan 03 05:05	0° ≈			8114 Dec 08 11:40	5°0	
	8114 Jan 24 21:52	0° ∀		desc. node	8114 Dec 10 09:24	3° る 17'04	
evening max el	8114 Jan 29 06:46		23°55'52		8114 Dec 27 15:32	0° ≈	
retrograde	8114 Feb 09 06:54	11° ∺ 13'13		evening max el	8115 Jan 11 19:57	18° ≈ 32'05	25°12'25
evening set	8114 Feb 14 12:29	9° ₩ 02'28		retrograde	8115 Jan 23 19:53	25°≈28'30	
asc. node	8114 Feb 14 16:41	8°) €53'24	1020140	evening set	8115 Jan 29 14:19	23°≈05'03	
inferior conj	8114 Feb 19 23:35	2° ★ 34'45	1°39'49	asc. node	8115 Feb 01 13:45	19°≈59'42	0.67600 ATT
minimum elong min. Earth dist.	8114 Feb 19 21:35 8114 Feb 19 06:47	2°) 41'33 3°) €31'50	1°39'10 0.68205 AU	min. Earth dist. inferior conj	8115 Feb 03 01:05 8115 Feb 04 05:19	18°≈09'07 16°≈37'18	0.67608 AU 0°52'01
mm. Earm tist.	8114 Feb 19 00.47 8114 Feb 21 22:22	30°R≈	0.00203 AU	minimum elong	8115 Feb 04 03:19 8115 Feb 04 04:05	16 ≈3718 16°≈41'18	0°51'38
morning rise	8114 Feb 25 06:40	26°≈31'32		morning rise	8115 Feb 09 18:09	10°≈41'49	0 51 50
direct	8114 Mar 01 07:36	24°≈59'11		direct	8115 Feb 13 06:40	9°≈30'32	
morning max el	8114 Mar 09 06:33	29° ≈ 30'46	20°29'58	morning max el	8115 Feb 20 09:53	13° ≈ 27'47	19°25'22
5	8114 Mar 09 18:07	0°) €		5	8115 Mar 04 23:53	0° ∀	
desc. node	8114 Mar 21 11:59	15°) 02′22		greatest brilliancy	8115 Mar 05 07:01	0°) 26′29	-0.7m
	8114 Mar 31 15:12	0 ° $\mathbf{\Upsilon}$		desc. node	8115 Mar 08 08:56	5° ₩ 03'45	
morning set	8114 Apr 07 02:25	9° Ƴ 54'22		morning set	8115 Mar 17 00:55	18° ¥ 19′20	

direct morning max el	8117 Jan 11 01:13 8117 Jan 17 11:43	8°ප13'39 11°ප38'26 0°≈	18°04'02	inferior conj minimum elong	8117 Dec 16 11:31 8117 Dec 16 15:41	28° ₹ 01'14 27° ₹ 50'36	
morning set	8117 Jan 30 09:39 8117 Feb 04 15:52	8° ≈ 36'51		morning rise asc. node	8117 Dec 23 06:15 8117 Dec 23 04:58	22° х 42'45 22° х 44'00	
desc. node	8117 Feb 09 02:51 8117 Feb 17 21:30	15°≈54'05 0°) €		direct morning max el	8117 Dec 25 16:05 8118 Jan 01 05:01	22° х 14′21 25° х 37′55	17°48'55
		201/07/24			8118 Jan 04 21:24	5°0	
superior conj minimum elong	8117 Feb 19 05:10 8117 Feb 18 21:18	2°) (05'21 1°) (34'15		morning set	8118 Jan 17 17:06 8118 Jan 23 02:01	20°る48'51 0°≈	
max. Earth dist.	8117 Feb 22 07:59	6° ¥ 59'58	1.45363 AU	desc. node	8118 Jan 26 23:48	6°≈33'42	
evening rise	8117 Mar 07 09:37	27° 光 19'41 0° Ƴ			0110 1 20 06 44	110 - 50110	0000144
greatest brilliancy	8117 Mar 09 03:07 8117 Mar 20 15:40	17° Y 35'45	-0.7m	superior conj minimum elong	8118 Jan 30 06:44 8118 Jan 30 04:08	11°≈59'12 11°≈48'35	
<i>y</i>	8117 Mar 29 14:13	0°8		max. Earth dist.	8118 Feb 05 02:29	21° ≈ 22'49	1.44544 AU
evening max el	8117 Apr 01 09:54	3°810'20	19°35'58		8118 Feb 10 13:54	0° ∀	
asc. node retrograde	8117 Apr 03 06:52 8117 Apr 08 16:57	4° 8 54'28 7° 8 20'38		evening rise	8118 Feb 14 20:53 8118 Mar 02 11:32	6° 米 38'08 0° Υ	
evening set	8117 Apr 12 08:22	6° 8 03'06		evening max el	8118 Mar 15 11:29	16° Ƴ 49'01	20°37'47
inferior conj	8117 Apr 17 18:00	0° 8 07'35	3°19'53	asc. node	8118 Mar 21 03:57	21° Υ 04'21	
minimum elong	8117 Apr 17 17:04 8117 Apr 17 20:17	0° 8 10'40 30° ₹ Υ	3°19'45	retrograde evening set	8118 Mar 23 15:27 8118 Mar 27 16:02	21° Y 35'45 20° Y 03'03	
min. Earth dist.	8117 Apr 18 22:16	28° Ƴ 34'03	0.67014 AU	inferior conj	8118 Apr 01 23:36	13° Ƴ 54'41	3°04'14
morning rise	8117 Apr 23 01:27	23° Y '49'53		minimum elong	8118 Apr 01 21:50	14° Υ 00'45	3°03'54
direct desc. node	8117 Apr 29 02:51 8117 May 08 02:32	21° Y 08'06 25° Y 25'44		min. Earth dist. morning rise	8118 Apr 02 13:58 8118 Apr 07 03:25	13° Y 05'21 7° Y 39'18	0.67898 AU
morning max el	8117 May 11 08:45	28° Ƴ 28'17	25°33'55	direct	8118 Apr 12 15:58	5° Ƴ 11'56	
	8117 May 12 19:50	0° B		morning max el	8118 Apr 23 17:41	11° Υ 49'12	24°07'30
morning set	8117 Jun 03 18:53 8117 Jun 16 11:45	0°Ⅱ 21°Ⅱ34'02		desc. node	8118 Apr 24 23:31 8118 May 08 06:50	13° Y 06'48 0° と	
max. Earth dist.	8117 Jun 20 04:35	28° Ⅱ 25'53	1.35999 AU		8118 May 27 13:35	0°П	
	8117 Jun 21 00:24	0°€		morning set	8118 May 29 08:47	3° Ⅱ 04'59	1 20120 444
superior conj	8117 Jun 26 02:24	9° © 56'32	-0°40'35	max. Earth dist.	8118 Jun 02 01:38	9° Ⅱ 35'26	1.38128 AU
minimum elong	8117 Jun 26 04:49	10°908'38		superior conj	8118 Jun 09 06:08	22° II 52'55	-1°12'13
asc. node	8117 Jun 30 05:58	18°521'03		minimum elong	8118 Jun 09 10:34	23° Ⅱ 14'04	1°11'39
evening rise	8117 Jul 04 03:23 8117 Jul 05 22:59	26° © 19'20 0° Ω		asc. node	8118 Jun 12 22:29 8118 Jun 17 02:59	0°ഇ 8° ഇ 14'53	
evening max el	8117 Jul 21 19:11		19°59'34	evening rise	8118 Jun 18 03:17	10°914'42	
	8117 Jul 29 10:05	0° m/y			8118 Jun 29 01:07	0° Ω	10001120
retrograde evening set	8117 Aug 01 04:30 8117 Aug 03 01:46	0° Mp 21'14 0° Mp 11'51		evening max el retrograde	8118 Jul 04 14:26 8118 Jul 13 08:10	7° Ω 00'52 11° Ω 20'07	19°01'30
desc. node	8117 Aug 04 01:42	29° Ω 59'40		evening set	8118 Jul 15 06:44	11° £ 08'12	
	8117 Aug 04 01:08	30°R€		desc. node	8118 Jul 21 22:46	8° Ω 00'43	
inferior conj minimum elong	8117 Aug 12 02:14 8117 Aug 11 19:34	26°Ω12'15 26°Ω22'17		inferior conj minimum elong	8118 Jul 23 14:15 8118 Jul 23 12:58	6° Ω 53'38 6° Ω 55'51	
min. Earth dist.	8117 Aug 13 22:58	25° Ω 04'53	0.55107 AU	min. Earth dist.	8118 Jul 26 13:18	4° Ω 51'17	0.56414 AU
morning rise	8117 Aug 20 11:43	21° Ω 55'43		morning rise	8118 Jul 31 16:04	2° Ω 01'19	
direct morning max el	8117 Aug 24 22:30 8117 Sep 07 15:17	21° Ω 12'28 27° Ω 57'07	24°13'57	direct morning max el	8118 Aug 05 23:11 8118 Aug 20 04:33	0° Ω 55'25 8° Ω 13'49	25°52'48
moning mun vi	8117 Sep 09 16:21	0° m)	2. 150,	monning man vi	8118 Sep 05 10:16	0° m/y	20 02 10
asc. node	8117 Sep 26 05:31	24° m 44'34		asc. node	8118 Sep 13 02:30	14° Mp 13'07	
morning set	8117 Sep 28 21:54 8117 Oct 02 12:46	0° ჲ 7° ჲ 30'40		morning set	8118 Sep 16 23:57 8118 Sep 20 13:27	22° M 16'41 0° ⊆	
morning sec	011, 000 02 12.10	,			0110 Sep 20 15.27	v —	
superior conj	8117 Oct 09 10:23	22° ₽ 29'47	1°38'46	superior conj	8118 Sep 23 21:07	7° £ 19'46	1°30'14
minimum elong max. Earth dist.	8117 Oct 09 09:20 8117 Oct 11 12:59	22° £ 24'03 27° £ 03'35	1°38'46 1.32846 AU	minimum elong max. Earth dist.	8118 Sep 23 19:16 8118 Sep 24 19:48	7° ♀ 09'33 9° ♀ 24'54	1°30'04 1.32041 AU
max. Earth dist.	8117 Oct 12 22:01	0°M	1.520 10 110	evening rise	8118 Sep 30 21:09	22° ≙ 27'45	1.52011110
evening rise	8117 Oct 16 19:52	8°M07'16			8118 Oct 04 14:16	0°M	
desc. node	8117 Oct 28 15:29 8117 Oct 31 00:32	0° द्र ⁷ 3° द्र ⁷ 53'52		desc. node	8118 Oct 17 21:35 8118 Oct 22 13:50	23° M .15'11 0° ∡ 7	
evening max el	8117 Oct 31 00:32 8117 Nov 19 10:01	29° ⋌ 09'52	27°28'10	evening max el	8118 Nov 01 18:26	11° ∡ 751'31	27°19'37
	8117 Nov 20 07:38	0°る		retrograde	8118 Nov 15 14:26	19° ∡ 104'20	
retrograde evening set	8117 Dec 03 02:11 8117 Dec 10 02:55	6°る28'25 3°る56'00		evening set min. Earth dist.	8118 Nov 22 16:36 8118 Nov 26 08:56	16° ₹ 45'35 13° ₹ 55'56	0.61729 AU
min. Earth dist.	8117 Dec 10 02:55 8117 Dec 13 20:50	0°る40'30	0.63654 AU	inferior conj	8118 Nov 29 09:08	13 ✗ 33 30	
	8117 Dec 14 13:03	30°₹⊀		minimum elong	8118 Nov 29 15:26	10° ₰ 59'07	3°20'37

minimum alang	9120 Oct. 22, 07:12	5° M 42'07	5016155	morning rise	9121 Oat 12 02:09	13° Ω 05'41	
minimum elong morning rise	8120 Oct 23 07:13 8120 Oct 31 06:25	1°M35'56	3 10 33	morning rise direct	8121 Oct 12 02:08 8121 Oct 14 21:03	13 ≥ 03 41 12° ⊆ 46'02	
direct	8120 Nov 02 16:03	1°M18'35		morning max el	8121 Oct 14 21:03 8121 Oct 25 03:39	12 ⊆ 40 02 17° ⊆ 35'40	20°03'18
morning max el	8120 Nov 11 11:58	5°M32'00	18°57'39	asc. node	8121 Oct 23 03:39 8121 Oct 30 17:01	24° £ 09'50	20 03 18
asc. node	8120 Nov 12 20:01	6°M54'10	10 37 37	asc. node	8121 Nov 03 11:13	0°M	
use. Houe	8120 Nov 26 23:31	0°×7		morning set	8121 Nov 12 06:41	16°M43'43	
morning set	8120 Nov 28 01:38	2° × ⁷ 08'11		morning sec	8121 Nov 18 18:37	0° √	
merming sec	01201107 20 01.50	2 7. 00 11			01211101101101010	• ••	
superior conj	8120 Dec 06 11:10	18° ∡ ³34'25	1°16'31	superior conj	8121 Nov 19 23:24	2° ∡ ¹24'56	1°32'19
minimum elong	8120 Dec 06 14:22	18° ∡ ¹49'45	1°16'18	minimum elong	8121 Nov 20 01:34	2° ∡ ³35'46	1°32'16
_	8120 Dec 12 14:52	0°ರ		max. Earth dist.	8121 Nov 25 16:05	13° ∡ ³31'12	1.36915 AU
max. Earth dist.	8120 Dec 13 09:57	1° る 25'31	1.39033 AU	evening rise	8121 Nov 29 11:04	20° ∡ ³31'51	
evening rise	8120 Dec 17 06:35	8° ප 10'30		desc. node	8121 Dec 04 11:46	29° х 20′49	
desc. node	8120 Dec 17 14:44	8° る 45'19			8121 Dec 04 21:00	0° ප	
	8120 Dec 30 21:56	0° ≈			8121 Dec 24 22:04	0° ≈	
evening max el	8121 Jan 21 13:02	27° ≈ 56′08	24°29'15	evening max el	8122 Jan 04 02:11	11° ≈ 43'31	25°42'08
	8121 Jan 23 18:04	0° ∀		retrograde	8122 Jan 16 11:07	18° ≈ 48'44	
retrograde	8121 Feb 02 00:04	4°) 38′30		evening set	8122 Jan 22 10:47	16° ≈ 21'05	
evening set	8121 Feb 07 11:01	2° ∺ 22'01		asc. node	8122 Jan 26 16:17	11° ≈ 47'21	
asc. node	8121 Feb 08 19:11	1° ∺ 05'36		min. Earth dist.	8122 Jan 26 18:45	11° ≈ 39'35	0.67241 AU
	8121 Feb 09 18:52	30°R≈		inferior conj	8122 Jan 28 03:47	9° ≈ 54'41	0°29'23
min. Earth dist.	8121 Feb 12 01:55	27°≈05'59	0.67996 AU	minimum elong	8122 Jan 28 03:03	9°≈57'02	0°29'13
inferior conj	8121 Feb 12 23:36	25°≈53'24	1°20'30	morning rise	8122 Feb 02 19:45	4°≈02'46	
minimum elong	8121 Feb 12 21:52	25°≈59'13	1°19'56	direct	8122 Feb 06 03:24	2°≈59'32	10002125
morning rise	8121 Feb 18 08:51	19°≈53'07		morning max el	8122 Feb 13 00:33	6°≈46'13	19°02'25
direct	8121 Feb 22 04:14	18°≈30'08	20000125	greatest brilliancy	8122 Feb 26 20:37	25° ≈ 27'22 0° ∀	-0.8m
morning max el	8121 Mar 01 18:04 8121 Mar 07 21:18	22° ≈ 46'04 0°) €	20°00'35	desc. node	8122 Mar 01 19:51 8122 Mar 02 11:17	0° X 0° X 59'24	
desc. node	8121 Mar 15 14:21	0 X 10° ¥ 50'11		morning set	8122 Mar 07 22:48	9° ∺ 28'26	
desc. Hode	8121 Mar 28 07:12	0° Υ		morning set	8122 Mar 21 02:40	9 γ (2820	
morning set	8121 Mar 28 19:00	0° Υ 45'29		max. Earth dist.	8122 Mar 22 02:12	1° Υ '32'23	1.45182 AU
max. Earth dist.	8121 Apr 08 10:30	17° Υ 26'07	1.44129 AU	max. Earth dist.	0122 Wai 22 02.12	1 32 23	1.43102710
man. Barur dige.	01 2 111p1 00 10.50	17 12007	1.1.112, 110	superior conj	8122 Mar 24 13:00	5° Y 23'57	-2°01'43
superior conj	8121 Apr 13 21:47	26° Υ 15'26	-2°11'46	minimum elong	8122 Mar 24 06:04	4° Y 56'33	
minimum elong	8121 Apr 13 21:48	26° Ƴ 15′27		evening rise	8122 Apr 08 08:40	29° Y °12'16	
Č	8121 Apr 16 04:34	0°8		Ü	8122 Apr 08 20:21	0° ႘	
evening rise	8121 Apr 27 00:39	18° 8 16'42		asc. node	8122 Apr 24 15:11	24° 8 43'24	
	8121 May 03 21:22	$\Pi^{\circ}0$		evening max el	8122 Apr 28 08:03	29° 8 05'34	18°29'06
asc. node	8121 May 07 18:06	6° Ⅱ 17'07			8122 Apr 29 07:05	Π $^{\circ}0$	
evening max el	8121 May 14 19:23	15° Ⅱ 36′56	18°08'48	retrograde	8122 May 04 19:23	2° ∏ 36′12	
retrograde	8121 May 21 04:54	18° Ⅲ 58′02		evening set	8122 May 07 22:32	1° Ⅱ 41'26	
evening set	8121 May 24 00:47	18° Ⅱ 17'00			8122 May 10 04:13	30°₽ ႘	
inferior conj	8121 May 30 04:56	13° Ⅱ 03′20	2°58'22	inferior conj	8122 May 13 16:50	26° 8 10'08	
minimum elong	8121 May 30 07:17	12° Ⅱ 57'03	2°57'49	minimum elong	8122 May 13 17:52	26° 8 07'04	3°19'13
min. Earth dist.	8121 Jun 01 23:54	10° Ⅱ 04'53	0.62771 AU	min. Earth dist.	8122 May 15 20:56	23° 8 36'01	0.64731 AU
morning rise	8121 Jun 05 12:09	6° Ⅱ 54'40		morning rise	8122 May 19 12:21	19° 8 54'26	
desc. node	8121 Jun 11 13:55	4° Ⅱ 24'04		direct	8122 May 26 04:19	17° 8 09'17	
direct	8121 Jun 12 06:43	4° Ⅱ 22'31	27052106	desc. node	8122 May 29 10:57	17° 8 43'56	27010122
morning max el	8121 Jun 26 07:41	12° Ⅱ 25'28	27°52'06	morning max el	8122 Jun 08 17:28	25° ႘ 06'01	2/*19.22
	8121 Jul 10 07:02 8121 Jul 27 20:31	0.೮ 0.ಎ			8122 Jun 13 04:24 8122 Jul 03 18:34	0° © 0°∏	
morning set	8121 Jul 27 20:31 8121 Jul 30 12:51	0°87 5° Ω 19'07		morning set	8122 Jul 03 18:34 8122 Jul 14 02:57	18° © 52'49	
asc. node	8121 Jul 30 12:31 8121 Aug 03 17:24	13° Ω 59'56		max. Earth dist.	8122 Jul 14 02.37 8122 Jul 18 17:38		1.33397 AU
max. Earth dist.	8121 Aug 04 20:34	16° Ω 24'41	1.32342 AU	max. Lartii dist.	8122 Jul 19 15:23	0°Ω	1.55577 AO
max. Lattii dist.	0121 Aug 04 20.34	10 062441	1.52542 AU	asc. node	8122 Jul 21 14:23	4° Ω 05'57	
superior conj	8121 Aug 07 04:34	21° Ω 27'07	0°34'42	ase. Houe	0122 Jul 21 14.23	4 000337	
minimum elong	8121 Aug 07 03:02	21° Ω 18'45		superior conj	8122 Jul 22 08:34	5° Ω 42'05	0°07'41
	8121 Aug 11 02:32	0° m		minimum elong	8122 Jul 22 08:10	5°Ω40'02	
evening rise	8121 Aug 14 01:46	6° mp 25'14		behind sun begin	8122 Jul 22 03:15	5°Ω13'58	-
U .	8121 Aug 26 09:41	0∘ ಹ		behind sun end	8122 Jul 22 13:06	6° Ω 06'09	
evening max el	8121 Sep 07 02:33	15° ≙ 16′01	23°49'27	evening rise	8122 Jul 29 12:54	21° Ω 02'21	
desc. node	8121 Sep 07 12:52	15° ≏ 40'34		-	8122 Aug 02 21:28	0° m þ	
retrograde	8121 Sep 20 18:02	22° ≏ 05'57		evening max el	8122 Aug 19 15:48	25° m 29'52	22°10'35
evening set	8121 Sep 25 07:26	21° ≏ 20′26		desc. node	8122 Aug 25 09:59	29° m 55'30	
min. Earth dist.	8121 Oct 01 13:00	18° ≏ 19'50	0.55923 AU		8122 Aug 25 13:17	0∘ ⊽	
inferior conj	8121 Oct 03 16:50	17° ≏ 01'35		retrograde	8122 Sep 01 11:23	1° ≏ 52'19	
minimum elong	8121 Oct 03 15:43	17° ≏ 03'16	5°33'37	evening set	8122 Sep 04 13:13	1° ≏ 31'22	

	8122 Sep 08 21:00	30°₽. ™		retrograde	8123 Aug 12 23:31	11° m) 45'02	
min. Earth dist.	8122 Sep 12 21:20	27° m 53'51	0.54890 AU	evening set	8123 Aug 15 02:01	11° m)34'16	
inferior conj	8122 Sep 13 14:55	27° m 29'11	-4°58'34	inferior conj	8123 Aug 24 07:26	7° m 37'18	-3°30'57
minimum elong	8122 Sep 13 06:53	27° m 40'27	4°57'06	minimum elong	8123 Aug 23 22:25	7° m 50'12	3°28'08
morning rise	8122 Sep 22 02:09	23° m 41'05		min. Earth dist.	8123 Aug 25 06:33	7° m 04'13	0.54752 AU
direct	8122 Sep 25 10:23	23° Mp 16'10		morning rise	8123 Sep 01 18:42	3° m 37'06	
morning max el	8122 Oct 07 06:15	28°M/49'38	21°30'30	direct	8123 Sep 05 18:39	3°Mp02'53	
	8122 Oct 08 11:02	0० ত		morning max el	8123 Sep 18 22:32	9° Mp 22′24	23°13'04
asc. node	8122 Oct 17 14:00	12° ≏ 16'41			8123 Oct 03 21:08	0∘ ত	
	8122 Oct 26 22:43	0° M		asc. node	8123 Oct 04 10:58	1° ≏ 02'42	
morning set	8122 Oct 27 15:53	1°M29'15		morning set	8123 Oct 12 03:11	16° ≏ 18'59	
					8123 Oct 18 11:46	0° M	
superior conj	8122 Nov 03 21:37	16°M43'13	1°40'11				
minimum elong	8122 Nov 03 22:27	16° M 47′32	1°40'16	superior conj	8123 Oct 19 02:37	1°M19'53	1°41'05
max. Earth dist.	8122 Nov 08 03:35	25°M24'49	1.35027 AU	minimum elong	8123 Oct 19 02:11	1°M17'32	1°41'09
	8122 Nov 10 11:18	0° ∡ 7		max. Earth dist.	8123 Oct 21 23:06		1.33513 AU
evening rise	8122 Nov 12 08:46	3° ∡ 38'47		evening rise	8123 Oct 26 19:48	17°M21'15	
desc. node	8122 Nov 21 08:50	19° ₹ 44'42			8123 Nov 02 12:17	0° ∡ 7	
	8122 Nov 27 18:15	0°る	26041102	desc. node	8123 Nov 08 05:54	9° ∡ 750'51	
evening max el	8122 Dec 17 15:33	25° る 27'04	26°41'03		8123 Nov 22 03:31	0°る	27010142
. 1	8122 Dec 23 03:56	0°≈		evening max el	8123 Nov 30 04:18	8°る55'48	2/°18'43
retrograde	8122 Dec 30 16:41	2°≈44'01		retrograde	8123 Dec 13 16:10	16°පි15'53 13°පි39'51	
evening set	8123 Jan 06 04:24	0°≈09'06		evening set	8123 Dec 20 13:32	13° る 39'51	0.64644.411
min. Earth dist.	8123 Jan 06 08:51 8123 Jan 10 06:08	30°Rる 26°る02'26	0.66119 AU	min. Earth dist.	8123 Dec 24 09:47 8123 Dec 26 18:09	7° る 34'51	0.64644 AU
		20° ろ 02′20		inferior conj		7°る34'31 7°る27'08	
inferior conj	8123 Jan 12 02:46 8123 Jan 12 03:35	23°る3031 23°る48'08	-0°29'03 0°28'33	minimum elong asc. node	8123 Dec 26 21:00 8123 Dec 31 10:25	7°62708 3° る 10'21	1-32-31
minimum elong asc. node	8123 Jan 12 03.33 8123 Jan 13 13:22	23 34808 22° る 10'06	0 28 33	morning rise	8124 Jan 02 05:59	3 31021 2° 3 07'31	
morning rise	8123 Jan 18 03:42	18° ろ 09'28		direct	8124 Jan 02 03:39 8124 Jan 04 19:27	2 3 0731	
direct	8123 Jan 21 01:18	18 3 0928		morning max el	8124 Jan 11 05:59	4° る 56'22	17°55'32
morning max el	8123 Jan 27 13:24	17 322 44 20°る52'07	18°20'32	morning max ci	8124 Jan 27 23:58	4 3 0 22 0° ≈	17 33 32
morning max cr	8123 Feb 03 17:32	0°≈	10 20 32	morning set	8124 Jan 28 14:15	0°≈59'46	
morning set	8123 Feb 16 03:51	19° ≈ 30'48		desc. node	8124 Feb 04 05:10	11°≈59'42	
•				desc. node	0121100 01 00:10	11 1000 12	
desc node	X123 Feb 17 UX:13	2.1° ≈ ≈2.4°1.7					
desc. node	8123 Feb 17 08:13 8123 Feb 22 17:41	21° ≈ 24'17 0° ∀		superior coni	8124 Feb 11 07:15	23° ≈ 29'04	-0°49'38
desc. node		21°≈2417 0° ∺		superior conj minimum elong	8124 Feb 11 07:15 8124 Feb 11 01:30	23°≈29'04 23°≈06'05	-0°49'38 0°48'45
			-1°31'59	superior conj minimum elong	8124 Feb 11 01:30	23° ≈ 06′05	
superior conj	8123 Feb 22 17:41	0° ℋ	-1°31'59 1°30'57	1 3			
	8123 Feb 22 17:41 8123 Mar 03 17:43	0° 米 14° 米 10′59 13° 米 33′37		minimum elong	8124 Feb 11 01:30 8124 Feb 15 09:41	23°≈06'05 0° 米	0°48'45
superior conj minimum elong	8123 Feb 22 17:41 8123 Mar 03 17:43 8123 Mar 03 08:10	0° 米 14° 米 10′59 13° 米 33′37	1°30'57	minimum elong max. Earth dist.	8124 Feb 11 01:30 8124 Feb 15 09:41 8124 Feb 15 17:25	23°≈06'05 0°¥ 0°¥30'31	0°48'45
superior conj minimum elong	8123 Feb 22 17:41 8123 Mar 03 17:43 8123 Mar 03 08:10 8123 Mar 04 21:43	0°¥ 14°¥10'59 13°¥33'37 16°¥00'40	1°30'57	minimum elong max. Earth dist.	8124 Feb 11 01:30 8124 Feb 15 09:41 8124 Feb 15 17:25 8124 Feb 27 08:58	23°≈06'05 0° X 0° X 30'31 18° X 37'09	0°48'45
superior conj minimum elong max. Earth dist.	8123 Feb 22 17:41 8123 Mar 03 17:43 8123 Mar 03 08:10 8123 Mar 04 21:43 8123 Mar 13 20:21	0°₩ 14°₩10'59 13°₩33'37 16°₩00'40 0° °	1°30'57	minimum elong max. Earth dist. evening rise	8124 Feb 11 01:30 8124 Feb 15 09:41 8124 Feb 15 17:25 8124 Feb 27 08:58 8124 Mar 05 19:50	23°≈06'05 0° X 0° X 30'31 18° X 37'09 0° Y	0°48'45 1.45099 AU
superior conj minimum elong max. Earth dist. evening rise	8123 Feb 22 17:41 8123 Mar 03 17:43 8123 Mar 03 08:10 8123 Mar 04 21:43 8123 Mar 13 20:21 8123 Mar 19 17:29	0°¥ 14°¥10'59 13°¥33'37 16°¥00'40 0°Υ 9°Υ13'01	1°30'57 1.45514 AU	minimum elong max. Earth dist. evening rise greatest brilliancy	8124 Feb 11 01:30 8124 Feb 15 09:41 8124 Feb 15 17:25 8124 Feb 27 08:58 8124 Mar 05 19:50 8124 Mar 13 01:11	23°≈06'05 0°ℋ 0°ℋ30'31 18°ℋ37'09 0°Ƴ 10°Ƴ47'24	0°48'45 1.45099 AU -0.6m
superior conj minimum elong max. Earth dist. evening rise	8123 Feb 22 17:41 8123 Mar 03 17:43 8123 Mar 03 08:10 8123 Mar 04 21:43 8123 Mar 13 20:21 8123 Mar 19 17:29 8123 Mar 30 07:27	0°¥ 14°¥10'59 13°¥33'37 16°¥00'40 0°Y 9°Y13'01 25°Y45'05	1°30'57 1.45514 AU	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el	8124 Feb 11 01:30 8124 Feb 15 09:41 8124 Feb 15 17:25 8124 Feb 27 08:58 8124 Mar 05 19:50 8124 Mar 13 01:11 8124 Mar 24 22:14	23°≈06'05 0°₩ 0°₩30'31 18°₩37'09 0°Ψ 10°Ψ47'24 26°Ψ18'08	0°48'45 1.45099 AU -0.6m
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	8123 Feb 22 17:41 8123 Mar 03 17:43 8123 Mar 03 08:10 8123 Mar 04 21:43 8123 Mar 13 20:21 8123 Mar 19 17:29 8123 Mar 30 07:27 8123 Apr 02 02:34	0°¥ 14°¥10'59 13°¥33'37 16°¥00'40 0°Y 9°Y13'01 25°Y45'05 0°8	1°30'57 1.45514 AU -0.8m	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el	8124 Feb 11 01:30 8124 Feb 15 09:41 8124 Feb 15 17:25 8124 Feb 27 08:58 8124 Mar 05 19:50 8124 Mar 13 01:11 8124 Mar 24 22:14 8124 Mar 28 09:24	23°≈06'05 0°₩ 0°₩30'31 18°₩37'09 0°Ψ 10°Ψ47'24 26°Ψ18'08 29°Ψ15'27 0°℧ 0°℧43'19	0°48'45 1.45099 AU -0.6m
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el	8123 Feb 22 17:41 8123 Mar 03 17:43 8123 Mar 03 08:10 8123 Mar 04 21:43 8123 Mar 13 20:21 8123 Mar 19 17:29 8123 Mar 30 07:27 8123 Apr 02 02:34 8123 Apr 11 17:37	0°¥ 14°¥10′59 13°¥33′37 16°¥00′40 0°Y 9°Y13′01 25°Y45′05 0°8 12°840′51	1°30'57 1.45514 AU -0.8m	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node	8124 Feb 11 01:30 8124 Feb 15 09:41 8124 Feb 15 17:25 8124 Feb 27 08:58 8124 Mar 05 19:50 8124 Mar 13 01:11 8124 Mar 24 22:14 8124 Mar 28 09:24 8124 Mar 29 16:27	23°≈06'05 0° ₩ 0° ₩ 30'31 18° ₩ 37'09 0° Ψ 10° Ψ 47'24 26° Ψ 18'08 29° Ψ 15'27 0° ℧ 0° ℧ 43'19 30° ℝ Ψ	0°48'45 1.45099 AU -0.6m
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node	8123 Feb 22 17:41 8123 Mar 03 17:43 8123 Mar 03 08:10 8123 Mar 04 21:43 8123 Mar 13 20:21 8123 Mar 19 17:29 8123 Mar 30 07:27 8123 Apr 02 02:34 8123 Apr 11 17:37 8123 Apr 11 12:18	0°\ 14°\10'59 13°\33'37 16°\00'40 0°\ 9°\13'01 25°\45'05 0°\ 12°\40'51 12°\27'15 16°\33'30 15°\24'16	1°30'57 1.45514 AU -0.8m 19°06'51	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set	8124 Feb 11 01:30 8124 Feb 15 09:41 8124 Feb 15 17:25 8124 Feb 27 08:58 8124 Mar 05 19:50 8124 Mar 13 01:11 8124 Mar 24 22:14 8124 Mar 28 09:24 8124 Mar 29 16:27 8124 Apr 01 13:30 8124 Apr 04 07:06 8124 Apr 05 08:41	23°≈06'05 0° ₩ 0° ₩ 30'31 18° ₩ 37'09 0° Ψ 10° Ψ 47'24 26° Ψ 18'08 29° Ψ 15'27 0° ₩ 0° ₩ 43'19 30° ℝ Ψ 29° Ψ 19'16	0°48'45 1.45099 AU -0.6m 20°00'34
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj	8123 Feb 22 17:41 8123 Mar 03 17:43 8123 Mar 03 08:10 8123 Mar 04 21:43 8123 Mar 13 20:21 8123 Mar 19 17:29 8123 Mar 30 07:27 8123 Apr 02 02:34 8123 Apr 11 17:37 8123 Apr 11 12:18 8123 Apr 18 15:14 8123 Apr 22 02:00 8123 Apr 27 13:55	0°\ 14°\10'59 13°\33'37 16°\00'40 0°\ 9°\13'01 25°\45'05 0°\ 12°\40'51 12°\27'15 16°\33'30 15°\24'16 9°\36'54	1°30'57 1.45514 AU -0.8m 19°06'51	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj	8124 Feb 11 01:30 8124 Feb 15 09:41 8124 Feb 15 17:25 8124 Feb 27 08:58 8124 Mar 05 19:50 8124 Mar 13 01:11 8124 Mar 24 22:14 8124 Mar 28 09:24 8124 Mar 29 16:27 8124 Apr 01 13:30 8124 Apr 04 07:06 8124 Apr 05 08:41 8124 Apr 10 17:08	23°≈06'05 0° ₩ 0° ₩30'31 18° ₩37'09 0° Ψ 10° Ψ47'24 26° Ψ18'08 29° Ψ15'27 0° ₩ 0° ₩43'19 30° ℝ Ψ 29° Ψ19'16 23° Ψ17'42	0°48'45 1.45099 AU -0.6m 20°00'34
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong	8123 Feb 22 17:41 8123 Mar 03 17:43 8123 Mar 03 08:10 8123 Mar 04 21:43 8123 Mar 13 20:21 8123 Mar 19 17:29 8123 Mar 30 07:27 8123 Apr 02 02:34 8123 Apr 11 17:37 8123 Apr 11 12:18 8123 Apr 18 15:14 8123 Apr 22 02:00 8123 Apr 27 13:55 8123 Apr 27 13:38	0°¥ 14°¥10'59 13°¥33'37 16°¥00'40 0°♥ 9°¥13'01 25°¥45'05 0°8 12°840'51 12°827'15 16°833'30 15°824'16 9°836'54 9°837'48	1°30'57 1.45514 AU -0.8m 19°06'51 3°23'40 3°23'33	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong	8124 Feb 11 01:30 8124 Feb 15 09:41 8124 Feb 15 17:25 8124 Feb 27 08:58 8124 Mar 05 19:50 8124 Mar 13 01:11 8124 Mar 24 22:14 8124 Mar 28 09:24 8124 Mar 29 16:27 8124 Apr 01 13:30 8124 Apr 04 07:06 8124 Apr 05 08:41 8124 Apr 10 17:08 8124 Apr 10 15:48	23°≈06'05 0° € 30'31 18° € 37'09 0° ♥ 10° ♥ 47'24 26° ♥ 18'08 29° ♥ 15'27 0° € 43'19 30° € ♥ 29° ♥ 19'16 23° ♥ 17'42 23° ♥ 22'11	0°48'45 1.45099 AU -0.6m 20°00'34 3°14'34 3°14'21
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	8123 Feb 22 17:41 8123 Mar 03 17:43 8123 Mar 03 08:10 8123 Mar 04 21:43 8123 Mar 13 20:21 8123 Mar 19 17:29 8123 Mar 30 07:27 8123 Apr 02 02:34 8123 Apr 11 17:37 8123 Apr 11 12:18 8123 Apr 18 15:14 8123 Apr 22 02:00 8123 Apr 27 13:55 8123 Apr 27 13:38 8123 Apr 29 02:35	0°\ 14°\tilo'59 13°\tilo'33'37 16°\tilo'400'40 0°\forall 9°\forall'13'01 25°\forall'45'05 0°\tolds 12°\tolds 12°\tolds 12°\tolds 12°\tolds 12°\tolds 12°\tolds 13'30'30 15°\tolds 15°\tolds 15'	1°30'57 1.45514 AU -0.8m 19°06'51	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	8124 Feb 11 01:30 8124 Feb 15 09:41 8124 Feb 15 17:25 8124 Feb 27 08:58 8124 Mar 05 19:50 8124 Mar 13 01:11 8124 Mar 24 22:14 8124 Mar 28 09:24 8124 Mar 29 16:27 8124 Apr 01 13:30 8124 Apr 04 07:06 8124 Apr 05 08:41 8124 Apr 10 17:08 8124 Apr 10 15:48 8124 Apr 11 15:15	23°≈06'05 0° ₩ 0° ₩30'31 18° ₩37'09 0° Ψ 10° Ψ47'24 26° Ψ18'08 29° Ψ15'27 0° ₩ 0° ₩43'19 30° ℝ Ψ 29° Ψ19'16 23° Ψ17'42 23° Ψ22'11 22° Ψ03'04	0°48'45 1.45099 AU -0.6m 20°00'34
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8123 Feb 22 17:41 8123 Mar 03 17:43 8123 Mar 03 08:10 8123 Mar 04 21:43 8123 Mar 13 20:21 8123 Mar 19 17:29 8123 Mar 30 07:27 8123 Apr 02 02:34 8123 Apr 11 17:37 8123 Apr 11 12:18 8123 Apr 18 15:14 8123 Apr 22 02:00 8123 Apr 27 13:55 8123 Apr 27 13:38 8123 Apr 29 02:35 8123 May 03 00:52	0°¥ 14°¥10'59 13°¥33'37 16°¥00'40 0°Y 9°Y13'01 25°Y45'05 0°8 12°840'51 12°827'15 16°833'30 15°824'16 9°836'54 9°837'48 7°839'34 3°819'03	1°30'57 1.45514 AU -0.8m 19°06'51 3°23'40 3°23'33	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8124 Feb 11 01:30 8124 Feb 15 09:41 8124 Feb 15 17:25 8124 Feb 27 08:58 8124 Mar 05 19:50 8124 Mar 13 01:11 8124 Mar 24 22:14 8124 Mar 28 09:24 8124 Mar 29 16:27 8124 Apr 01 13:30 8124 Apr 04 07:06 8124 Apr 05 08:41 8124 Apr 10 17:08 8124 Apr 10 15:48 8124 Apr 11 15:15 8124 Apr 15 22:40	23°≈06'05 0° ₩ 0° ₩30'31 18° ₩37'09 0° Ψ 10° Ψ47'24 26° Ψ18'08 29° Ψ15'27 0° ₩ 0° ₩43'19 30° R Ψ 29° Ψ19'16 23° Ψ17'42 23° Ψ22'11 22° Ψ03'04 17° Ψ00'42	0°48'45 1.45099 AU -0.6m 20°00'34 3°14'34 3°14'21
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8123 Feb 22 17:41 8123 Mar 03 17:43 8123 Mar 03 08:10 8123 Mar 04 21:43 8123 Mar 13 20:21 8123 Mar 19 17:29 8123 Mar 30 07:27 8123 Apr 02 02:34 8123 Apr 11 17:37 8123 Apr 11 12:18 8123 Apr 18 15:14 8123 Apr 22 02:00 8123 Apr 27 13:55 8123 Apr 27 13:38 8123 Apr 29 02:35 8123 May 03 00:52 8123 May 09 08:36	0°¥ 14°¥10'59 13°¥33'37 16°¥00'40 0°Y 9°Y13'01 25°Y45'05 0°8 12°840'51 12°827'15 16°833'30 15°824'16 9°836'54 9°837'48 7°839'34 3°819'03 0°833'13	1°30'57 1.45514 AU -0.8m 19°06'51 3°23'40 3°23'33	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8124 Feb 11 01:30 8124 Feb 15 09:41 8124 Feb 15 17:25 8124 Feb 27 08:58 8124 Mar 05 19:50 8124 Mar 13 01:11 8124 Mar 24 22:14 8124 Mar 28 09:24 8124 Mar 29 16:27 8124 Apr 01 13:30 8124 Apr 04 07:06 8124 Apr 05 08:41 8124 Apr 10 17:08 8124 Apr 10 15:48 8124 Apr 11 15:15 8124 Apr 15 22:40 8124 Apr 21 18:41	23°≈06'05 0° ₩ 0° ₩30'31 18° ₩37'09 0° Ψ 10° Ψ47'24 26° Ψ18'08 29° Ψ15'27 0° ₩ 0° ₩43'19 30° R Ψ 29° Ψ19'16 23° Ψ17'42 23° Ψ22'11 22° Ψ03'04 17° Ψ00'42 14° Ψ24'25	0°48'45 1.45099 AU -0.6m 20°00'34 3°14'34 3°14'21
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	8123 Feb 22 17:41 8123 Mar 03 17:43 8123 Mar 03 08:10 8123 Mar 04 21:43 8123 Mar 13 20:21 8123 Mar 19 17:29 8123 Mar 30 07:27 8123 Apr 02 02:34 8123 Apr 11 17:37 8123 Apr 11 12:18 8123 Apr 18 15:14 8123 Apr 22 02:00 8123 Apr 27 13:55 8123 Apr 27 13:38 8123 Apr 29 02:35 8123 May 03 00:52 8123 May 09 08:36 8123 May 16 07:56	0°¥ 14°¥10'59 13°¥33'37 16°¥00'40 0°° 9°°¥13'01 25°°¥45'05 0°8 12°840'51 12°827'15 16°833'30 15°824'16 9°836'54 9°837'48 7°839'34 3°819'03 0°833'13 3°809'19	1°30'57 1.45514 AU -0.8m 19°06'51 3°23'40 3°23'33 0.66306 AU	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	8124 Feb 11 01:30 8124 Feb 15 09:41 8124 Feb 15 09:41 8124 Feb 27 08:58 8124 Mar 05 19:50 8124 Mar 13 01:11 8124 Mar 24 22:14 8124 Mar 28 09:24 8124 Mar 29 16:27 8124 Apr 01 13:30 8124 Apr 04 07:06 8124 Apr 05 08:41 8124 Apr 10 17:08 8124 Apr 10 15:48 8124 Apr 11 15:15 8124 Apr 15 22:40 8124 Apr 21 18:41 8124 May 02 04:53	23°≈06'05 0° ₩ 0° ₩30'31 18° ₩37'09 0° Ψ 10° Ψ47'24 26° Ψ18'08 29° Ψ15'27 0° ੴ 43'19 30° R Ψ 29° Ψ19'16 23° Ψ17'42 23° Ψ22'11 22° Ψ03'04 17° Ψ00'42 14° Ψ24'25 20° Ψ08'19	0°48'45 1.45099 AU -0.6m 20°00'34 3°14'34 3°14'21 0.67445 AU
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8123 Feb 22 17:41 8123 Mar 03 17:43 8123 Mar 03 08:10 8123 Mar 04 21:43 8123 Mar 13 20:21 8123 Mar 19 17:29 8123 Mar 30 07:27 8123 Apr 02 02:34 8123 Apr 11 17:37 8123 Apr 11 12:18 8123 Apr 18 15:14 8123 Apr 22 02:00 8123 Apr 27 13:55 8123 Apr 27 13:38 8123 Apr 29 02:35 8123 May 03 00:52 8123 May 09 08:36 8123 May 16 07:56 8123 May 22 03:53	0°¥ 14°¥10'59 13°¥33'37 16°¥00'40 0°° 9°°¥13'01 25°°¥45'05 0°₺ 12°₺40'51 12°₺27'15 16°₺33'30 15°₺24'16 9°₺36'54 9°₺37'48 7°₺39'34 3°₺19'03 0°₺33'13 3°₺09'19 8°₺10'42	1°30'57 1.45514 AU -0.8m 19°06'51 3°23'40 3°23'33 0.66306 AU	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8124 Feb 11 01:30 8124 Feb 15 09:41 8124 Feb 15 09:41 8124 Feb 27 08:58 8124 Mar 05 19:50 8124 Mar 13 01:11 8124 Mar 24 22:14 8124 Mar 28 09:24 8124 Mar 29 16:27 8124 Apr 01 13:30 8124 Apr 04 07:06 8124 Apr 05 08:41 8124 Apr 10 17:08 8124 Apr 10 15:48 8124 Apr 10 15:48 8124 Apr 11 15:15 8124 Apr 15 22:40 8124 Apr 21 18:41 8124 May 02 04:53 8124 May 03 13:24	23°≈06'05 0° ₩ 0° ₩30'31 18° ₩37'09 0° Ψ 10° Ψ47'24 26° Ψ18'08 29° Ψ15'27 0° ੴ 43'19 30° R Ψ 29° Ψ19'16 23° Ψ17'42 23° Ψ22'11 22° Ψ03'04 17° Ψ00'42 14° Ψ24'25 20° Ψ08'19 21° Ψ28'01	0°48'45 1.45099 AU -0.6m 20°00'34 3°14'34 3°14'21
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	8123 Feb 22 17:41 8123 Mar 03 17:43 8123 Mar 03 08:10 8123 Mar 04 21:43 8123 Mar 13 20:21 8123 Mar 19 17:29 8123 Mar 30 07:27 8123 Apr 02 02:34 8123 Apr 11 17:37 8123 Apr 11 12:18 8123 Apr 18 15:14 8123 Apr 22 02:00 8123 Apr 27 13:55 8123 Apr 27 13:55 8123 Apr 29 02:35 8123 May 09 08:36 8123 May 09 08:36 8123 May 16 07:56 8123 May 22 03:53 8123 Jun 08 04:21	0°₩ 14°₩10'59 13°₩33'37 16°₩00'40 0°Ψ 9°Ψ13'01 25°Ψ45'05 0°₩ 12°₩40'51 12°₩27'15 16°₩33'30 15°₩24'16 9°₩36'54 9°₩36'54 9°₩37'48 7°₩39'34 3°₩19'03 0°₩33'13 3°₩09'19 8°₩10'42 0°Щ	1°30'57 1.45514 AU -0.8m 19°06'51 3°23'40 3°23'33 0.66306 AU	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	8124 Feb 11 01:30 8124 Feb 15 09:41 8124 Feb 15 09:41 8124 Feb 27 08:58 8124 Mar 05 19:50 8124 Mar 13 01:11 8124 Mar 24 22:14 8124 Mar 29 16:27 8124 Apr 01 13:30 8124 Apr 04 07:06 8124 Apr 05 08:41 8124 Apr 10 15:48 8124 Apr 10 15:48 8124 Apr 11 15:15 8124 Apr 15 22:40 8124 May 02 04:53 8124 May 03 13:24 8124 May 10 23:02	23°≈06'05 0° ₭ 0° ₭30'31 18° ₭37'09 0° ♀ 10° ♀47'24 26° ♀18'08 29° ♀15'27 0° ♉ 0° ♉43'19 30° ℞ ♀ 29° ♀19'16 23° ♀17'42 23° ♀22'11 22° ♀03'04 17° ♀00'42 14° ♀24'25 20° ♀08'19 21° ♀28'01 0° ♉	0°48'45 1.45099 AU -0.6m 20°00'34 3°14'34 3°14'21 0.67445 AU
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	8123 Feb 22 17:41 8123 Mar 03 17:43 8123 Mar 03 08:10 8123 Mar 04 21:43 8123 Mar 13 20:21 8123 Mar 19 17:29 8123 Mar 30 07:27 8123 Apr 02 02:34 8123 Apr 11 17:37 8123 Apr 11 12:18 8123 Apr 18 15:14 8123 Apr 22 02:00 8123 Apr 27 13:55 8123 Apr 27 13:38 8123 Apr 29 02:35 8123 May 03 00:52 8123 May 09 08:36 8123 May 16 07:56 8123 May 22 03:53 8123 Jun 08 04:21 8123 Jun 26 05:22	0°\ 14°\10'59 13°\33'37 16°\00'40 0°\ 9°\13'01 25°\45'05 0°\ 12°\54'05 12°\52'15 16°\33'30 15°\524'16 9°\53'48 7°\53'34 3°\519'03 0°\53'13 3°\509'19 8°\510'42 0°\1	1°30'57 1.45514 AU -0.8m 19°06'51 3°23'40 3°23'33 0.66306 AU	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	8124 Feb 11 01:30 8124 Feb 15 09:41 8124 Feb 15 17:25 8124 Feb 27 08:58 8124 Mar 05 19:50 8124 Mar 13 01:11 8124 Mar 24 22:14 8124 Mar 28 09:24 8124 Mar 29 16:27 8124 Apr 01 13:30 8124 Apr 04 07:06 8124 Apr 05 08:41 8124 Apr 10 17:08 8124 Apr 10 15:48 8124 Apr 10 15:48 8124 Apr 11 15:15 8124 Apr 15 22:40 8124 Apr 21 18:41 8124 May 02 04:53 8124 May 03 13:24 8124 May 10 23:02 8124 May 31 10:13	23°≈06'05 0° ₩ 0° ₩30'31 18° ₩37'09 0° Ψ 10° Ψ47'24 26° Ψ18'08 29° Ψ15'27 0° ₩ 0° ₩43'19 30° ℝ Ψ 29° Ψ19'16 23° Ψ17'42 23° Ψ22'11 22° Ψ03'04 17° Ψ00'42 14° Ψ24'25 20° Ψ08'19 21° Ψ28'01 0° ₩ 0° ₩	0°48'45 1.45099 AU -0.6m 20°00'34 3°14'34 3°14'21 0.67445 AU
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	8123 Feb 22 17:41 8123 Mar 03 17:43 8123 Mar 03 08:10 8123 Mar 04 21:43 8123 Mar 13 20:21 8123 Mar 19 17:29 8123 Mar 30 07:27 8123 Apr 02 02:34 8123 Apr 11 17:37 8123 Apr 11 12:18 8123 Apr 18 15:14 8123 Apr 22 02:00 8123 Apr 27 13:55 8123 Apr 27 13:38 8123 Apr 29 02:35 8123 May 03 00:52 8123 May 09 08:36 8123 May 16 07:56 8123 May 16 07:56 8123 May 22 03:53 8123 Jun 08 04:21 8123 Jun 26 05:22 8123 Jun 27 04:49	0°¥ 14°¥10'59 13°¥33'37 16°¥00'40 0°Y 9°Y13'01 25°Y45'05 0°8 12°840'51 12°827'15 16°833'30 15°824'16 9°836'54 9°837'48 7°839'34 3°819'03 0°833'13 3°809'19 8°810'42 0°Ⅱ 0°99 1°9948'56	1°30'57 1.45514 AU -0.8m 19°06'51 3°23'40 3°23'33 0.66306 AU 26°18'19	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	8124 Feb 11 01:30 8124 Feb 15 09:41 8124 Feb 15 17:25 8124 Feb 27 08:58 8124 Mar 05 19:50 8124 Mar 13 01:11 8124 Mar 24 22:14 8124 Mar 29 16:27 8124 Apr 01 13:30 8124 Apr 04 07:06 8124 Apr 05 08:41 8124 Apr 10 17:08 8124 Apr 10 15:48 8124 Apr 10 15:48 8124 Apr 11 15:15 8124 Apr 15 22:40 8124 Apr 21 18:41 8124 May 02 04:53 8124 May 03 13:24 8124 May 10 23:02 8124 May 31 10:13 8124 Jun 08 13:57	23°≈06'05 0° ₩ 0° ₩30'31 18° ₩37'09 0° Ψ 10° Ψ47'24 26° Ψ18'08 29° Ψ15'27 0° ₩ 0° ₩43'19 30° ℝ Ψ 29° Ψ19'16 23° Ψ17'42 23° Ψ22'11 22° Ψ03'04 17° Ψ00'42 14° Ψ24'25 20° Ψ08'19 21° Ψ28'01 0° ₩ 0° Ⅲ 13° Ⅲ55'08	0°48'45 1.45099 AU -0.6m 20°00'34 3°14'34 3°14'21 0.67445 AU 24°58'09
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	8123 Feb 22 17:41 8123 Mar 03 17:43 8123 Mar 03 08:10 8123 Mar 04 21:43 8123 Mar 13 20:21 8123 Mar 19 17:29 8123 Mar 30 07:27 8123 Apr 02 02:34 8123 Apr 11 17:37 8123 Apr 11 12:18 8123 Apr 18 15:14 8123 Apr 22 02:00 8123 Apr 27 13:55 8123 Apr 27 13:38 8123 Apr 29 02:35 8123 May 03 00:52 8123 May 09 08:36 8123 May 16 07:56 8123 May 22 03:53 8123 Jun 08 04:21 8123 Jun 26 05:22	0°\ 14°\10'59 13°\33'37 16°\00'40 0°\ 9°\13'01 25°\45'05 0°\ 12°\54'05 12°\52'15 16°\33'30 15°\524'16 9°\53'48 7°\53'34 3°\519'03 0°\53'13 3°\509'19 8°\510'42 0°\1	1°30'57 1.45514 AU -0.8m 19°06'51 3°23'40 3°23'33 0.66306 AU	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	8124 Feb 11 01:30 8124 Feb 15 09:41 8124 Feb 15 17:25 8124 Feb 27 08:58 8124 Mar 05 19:50 8124 Mar 13 01:11 8124 Mar 24 22:14 8124 Mar 29 16:27 8124 Apr 01 13:30 8124 Apr 04 07:06 8124 Apr 05 08:41 8124 Apr 10 17:08 8124 Apr 10 15:48 8124 Apr 11 15:15 8124 Apr 15 22:40 8124 Apr 15 22:40 8124 Apr 21 18:41 8124 May 02 04:53 8124 May 03 13:24 8124 May 10 23:02 8124 May 31 10:13 8124 Jun 08 13:57 8124 Jun 12 04:52	23°≈06'05 0° ₩ 0° ₩30'31 18° ₩37'09 0° Ψ 10° Ψ47'24 26° Ψ18'08 29° Ψ15'27 0° ₩ 0° ₩43'19 30° ℝ Ψ 29° Ψ19'16 23° Ψ17'42 23° Ψ22'11 22° Ψ03'04 17° Ψ00'42 14° Ψ24'25 20° Ψ08'19 21° Ψ28'01 0° ₩ 0° Щ 13° Щ55'08 20° Щ29'02	0°48'45 1.45099 AU -0.6m 20°00'34 3°14'34 3°14'21 0.67445 AU
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	8123 Feb 22 17:41 8123 Mar 03 17:43 8123 Mar 03 08:10 8123 Mar 04 21:43 8123 Mar 13 20:21 8123 Mar 19 17:29 8123 Mar 30 07:27 8123 Apr 02 02:34 8123 Apr 11 17:37 8123 Apr 11 12:18 8123 Apr 18 15:14 8123 Apr 22 02:00 8123 Apr 27 13:55 8123 Apr 27 13:38 8123 Apr 29 02:35 8123 May 03 00:52 8123 May 09 08:36 8123 May 16 07:56 8123 May 22 03:53 8123 Jun 08 04:21 8123 Jun 26 05:22 8123 Jun 27 04:49 8123 Jul 01 04:16	0°₩ 14°₩10'59 13°₩33'37 16°₩00'40 0°♥ 9°♥13'01 25°♥45'05 0°₩ 12°₩40'51 12°₩27'15 16°₩33'30 15°₩24'16 9°₩36'54 9°₩37'48 7°₩39'34 3°₩19'03 0°₩33'13 3°₩09'19 8°₩10'42 0°Щ 0°\$ 1°\$48'56 9°\$25'04	1°30'57 1.45514 AU -0.8m 19°06'51 3°23'40 3°23'33 0.66306 AU 26°18'19	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	8124 Feb 11 01:30 8124 Feb 15 09:41 8124 Feb 15 17:25 8124 Feb 27 08:58 8124 Mar 05 19:50 8124 Mar 13 01:11 8124 Mar 24 22:14 8124 Mar 29 16:27 8124 Apr 01 13:30 8124 Apr 04 07:06 8124 Apr 05 08:41 8124 Apr 10 17:08 8124 Apr 10 15:48 8124 Apr 10 15:48 8124 Apr 11 15:15 8124 Apr 15 22:40 8124 Apr 21 18:41 8124 May 02 04:53 8124 May 03 13:24 8124 May 10 23:02 8124 May 31 10:13 8124 Jun 08 13:57	23°≈06'05 0° ₩ 0° ₩30'31 18° ₩37'09 0° Ψ 10° Ψ47'24 26° Ψ18'08 29° Ψ15'27 0° ₩ 0° ₩43'19 30° ℝ Ψ 29° Ψ19'16 23° Ψ17'42 23° Ψ22'11 22° Ψ03'04 17° Ψ00'42 14° Ψ24'25 20° Ψ08'19 21° Ψ28'01 0° ₩ 0° Ⅲ 13° Ⅲ55'08	0°48'45 1.45099 AU -0.6m 20°00'34 3°14'34 3°14'21 0.67445 AU 24°58'09
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj	8123 Feb 22 17:41 8123 Mar 03 17:43 8123 Mar 03 08:10 8123 Mar 04 21:43 8123 Mar 13 20:21 8123 Mar 19 17:29 8123 Mar 30 07:27 8123 Apr 02 02:34 8123 Apr 11 17:37 8123 Apr 11 12:18 8123 Apr 18 15:14 8123 Apr 22 02:00 8123 Apr 27 13:55 8123 Apr 27 13:55 8123 Apr 29 02:35 8123 May 03 00:52 8123 May 09 08:36 8123 May 16 07:56 8123 May 22 03:53 8123 Jun 08 04:21 8123 Jun 26 05:22 8123 Jun 27 04:49 8123 Jul 01 04:16	0°¥ 14°¥10'59 13°¥33'37 16°¥00'40 0°Y 9°Y13'01 25°Y45'05 0°8 12°840'51 12°827'15 16°833'30 15°824'16 9°836'54 9°837'48 7°839'34 3°819'03 0°833'13 3°809'19 8°810'42 0°¶ 0°9 1°948'56 9°925'04	1°30'57 1.45514 AU -0.8m 19°06'51 3°23'40 3°23'33 0.66306 AU 26°18'19 1.34931 AU -0°22'25	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	8124 Feb 11 01:30 8124 Feb 15 09:41 8124 Feb 15 17:25 8124 Feb 27 08:58 8124 Mar 05 19:50 8124 Mar 13 01:11 8124 Mar 24 22:14 8124 Mar 28 09:24 8124 Mar 29 16:27 8124 Apr 01 13:30 8124 Apr 04 07:06 8124 Apr 05 08:41 8124 Apr 10 17:08 8124 Apr 10 15:48 8124 Apr 11 15:15 8124 Apr 15 22:40 8124 Apr 21 18:41 8124 May 02 04:53 8124 May 03 13:24 8124 May 10 23:02 8124 May 31 10:13 8124 Jun 08 13:57 8124 Jun 12 04:52 8124 Jun 17 05:31	23°≈06'05 0° ₩ 0° ₩30'31 18° ₩37'09 0° Ψ 10° Ψ47'24 26° Ψ18'08 29° Ψ15'27 0° ੴ 0° ੴ 43'19 30° ℝ Ψ 29° Ψ19'16 23° Ψ17'42 23° Ψ22'11 22° Ψ03'04 17° Ψ00'42 14° Ψ24'25 20° Ψ08'19 21° Ψ28'01 0° ੴ 0° ∭ 13° ∭55'08 20° ∭29'02 0° ∰	0°48'45 1.45099 AU -0.6m 20°00'34 3°14'34 3°14'21 0.67445 AU 24°58'09 1.36875 AU
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	8123 Feb 22 17:41 8123 Mar 03 17:43 8123 Mar 03 08:10 8123 Mar 04 21:43 8123 Mar 13 20:21 8123 Mar 19 17:29 8123 Mar 30 07:27 8123 Apr 02 02:34 8123 Apr 11 17:37 8123 Apr 11 12:18 8123 Apr 18 15:14 8123 Apr 22 02:00 8123 Apr 27 13:55 8123 Apr 27 13:55 8123 Apr 29 02:35 8123 May 03 00:52 8123 May 09 08:36 8123 May 16 07:56 8123 May 22 03:53 8123 Jun 08 04:21 8123 Jun 26 05:22 8123 Jun 27 04:49 8123 Jul 06 05:35 8123 Jul 06 05:35 8123 Jul 06 05:52	0°¥ 14°¥10'59 13°¥33'37 16°¥00'40 0°Y 9°Y13'01 25°Y45'05 0°8 12°840'51 12°827'15 16°833'30 15°824'16 9°836'54 9°837'48 7°839'34 3°819'03 0°833'13 3°809'19 8°810'42 0°II 0°© 1°©48'56 9°©25'04 19°©32'48 19°©332'48 19°©332'48	1°30'57 1.45514 AU -0.8m 19°06'51 3°23'40 3°23'33 0.66306 AU 26°18'19	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	8124 Feb 11 01:30 8124 Feb 15 09:41 8124 Feb 15 17:25 8124 Feb 27 08:58 8124 Mar 05 19:50 8124 Mar 13 01:11 8124 Mar 24 22:14 8124 Mar 29 16:27 8124 Apr 01 13:30 8124 Apr 04 07:06 8124 Apr 05 08:41 8124 Apr 10 17:08 8124 Apr 10 15:48 8124 Apr 11 15:15 8124 Apr 15 22:40 8124 Apr 21 18:41 8124 May 02 04:53 8124 May 03 13:24 8124 May 10 23:02 8124 May 10 23:02 8124 Jun 08 13:57 8124 Jun 12 04:52 8124 Jun 17 05:31	23°≈06'05 0° ₩ 0° ₩30'31 18° ₩37'09 0° Ψ 10° Ψ47'24 26° Ψ18'08 29° Ψ15'27 0° ੴ 0° ੴ43'19 30° ℝ Ψ 29° Ψ19'16 23° Ψ17'42 23° Ψ22'11 22° Ψ03'04 17° Ψ00'42 14° Ψ24'25 20° Ψ08'19 21° Ψ28'01 0° ੴ 0° ∭ 13° ∭55'08 20° ∭29'02 0° ∰	0°48'45 1.45099 AU -0.6m 20°00'34 3°14'34 3°14'21 0.67445 AU 24°58'09 1.36875 AU -0°54'08
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj	8123 Feb 22 17:41 8123 Mar 03 17:43 8123 Mar 03 08:10 8123 Mar 04 21:43 8123 Mar 13 20:21 8123 Mar 19 17:29 8123 Mar 30 07:27 8123 Apr 02 02:34 8123 Apr 11 17:37 8123 Apr 11 12:18 8123 Apr 18 15:14 8123 Apr 22 02:00 8123 Apr 27 13:55 8123 Apr 27 13:38 8123 Apr 29 02:35 8123 May 03 00:52 8123 May 09 08:36 8123 May 16 07:56 8123 May 16 07:56 8123 May 22 03:53 8123 Jun 08 04:21 8123 Jun 08 04:21 8123 Jun 06 05:35 8123 Jul 06 05:35 8123 Jul 06 06:52 8123 Jul 06 06:52 8123 Jul 08 11:24	0°¥ 14°¥10'59 13°¥33'37 16°¥00'40 0°Y 9°Y13'01 25°Y45'05 0°8 12°840'51 12°827'15 16°833'30 15°824'16 9°836'54 9°837'48 7°839'34 3°819'03 0°833'13 3°809'19 8°810'42 0°¶ 0°9 1°948'56 9°925'04	1°30'57 1.45514 AU -0.8m 19°06'51 3°23'40 3°23'33 0.66306 AU 26°18'19 1.34931 AU -0°22'25	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	8124 Feb 11 01:30 8124 Feb 15 09:41 8124 Feb 15 09:41 8124 Feb 27 08:58 8124 Mar 05 19:50 8124 Mar 13 01:11 8124 Mar 24 22:14 8124 Mar 29 16:27 8124 Apr 01 13:30 8124 Apr 04 07:06 8124 Apr 05 08:41 8124 Apr 10 17:08 8124 Apr 10 15:48 8124 Apr 11 15:15 8124 Apr 15 22:40 8124 Apr 15 22:40 8124 Apr 21 18:41 8124 May 02 04:53 8124 May 10 23:02 8124 May 10 23:02 8124 Jun 08 13:57 8124 Jun 12 04:52 8124 Jun 17 05:31 8124 Jun 18 16:36 8124 Jun 18 19:54	23°≈06'05 0° ₩ 0° ₩30'31 18° ₩37'09 0° Ψ 10° Ψ47'24 26° Ψ18'08 29° Ψ15'27 0° ੴ 0° ੴ43'19 30° R Ψ 29° Ψ19'16 23° Ψ22'11 22° Ψ03'04 17° Ψ00'42 14° Ψ24'25 20° Ψ08'19 21° Ψ28'01 0° ੴ 0° ∭ 13° ∭55'08 20° ∭29'02 0° ∰	0°48'45 1.45099 AU -0.6m 20°00'34 3°14'34 3°14'21 0.67445 AU 24°58'09 1.36875 AU -0°54'08
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	8123 Feb 22 17:41 8123 Mar 03 17:43 8123 Mar 03 08:10 8123 Mar 04 21:43 8123 Mar 13 20:21 8123 Mar 19 17:29 8123 Mar 30 07:27 8123 Apr 02 02:34 8123 Apr 11 17:37 8123 Apr 11 12:18 8123 Apr 18 15:14 8123 Apr 22 02:00 8123 Apr 27 13:55 8123 Apr 27 13:38 8123 Apr 29 02:35 8123 May 03 00:52 8123 May 09 08:36 8123 May 16 07:56 8123 May 16 07:56 8123 May 22 03:53 8123 Jun 08 04:21 8123 Jun 08 04:21 8123 Jun 06 05:35 8123 Jul 06 05:35 8123 Jul 06 06:52 8123 Jul 06 06:52 8123 Jul 08 11:24 8123 Jul 08 11:24 8123 Jul 08 11:24 8123 Jul 11 06:26	0°¥ 14°¥10'59 13°¥33'37 16°¥00'40 0°Y 9°Y13'01 25°Y45'05 0°8 12°840'51 12°827'15 16°833'30 15°824'16 9°836'54 9°836'54 9°837'48 7°839'34 3°819'03 0°833'13 3°809'19 8°810'42 0°II 0°S 1°S48'56 9°S25'04 19°S32'48 19°S39'23 24°S10'31 0°Ω	1°30'57 1.45514 AU -0.8m 19°06'51 3°23'40 3°23'33 0.66306 AU 26°18'19 1.34931 AU -0°22'25	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	8124 Feb 11 01:30 8124 Feb 15 09:41 8124 Feb 15 09:41 8124 Feb 27 08:58 8124 Mar 05 19:50 8124 Mar 13 01:11 8124 Mar 24 22:14 8124 Mar 29 16:27 8124 Apr 01 13:30 8124 Apr 04 07:06 8124 Apr 05 08:41 8124 Apr 10 17:08 8124 Apr 10 15:48 8124 Apr 11 15:15 8124 Apr 15 22:40 8124 Apr 21 18:41 8124 May 02 04:53 8124 May 03 13:24 8124 May 10 23:02 8124 Jun 08 13:57 8124 Jun 12 04:52 8124 Jun 17 05:31 8124 Jun 18 16:36 8124 Jun 18 19:54 8124 Jun 24 08:26	23°≈06'05 0°	0°48'45 1.45099 AU -0.6m 20°00'34 3°14'34 3°14'21 0.67445 AU 24°58'09 1.36875 AU -0°54'08
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	8123 Feb 22 17:41 8123 Mar 03 17:43 8123 Mar 03 08:10 8123 Mar 04 21:43 8123 Mar 13 20:21 8123 Mar 19 17:29 8123 Mar 30 07:27 8123 Apr 02 02:34 8123 Apr 11 17:37 8123 Apr 11 12:18 8123 Apr 18 15:14 8123 Apr 22 02:00 8123 Apr 27 13:55 8123 Apr 27 13:38 8123 Apr 29 02:35 8123 May 03 00:52 8123 May 09 08:36 8123 May 16 07:56 8123 May 16 07:56 8123 May 22 03:53 8123 Jun 08 04:21 8123 Jun 08 04:21 8123 Jun 06 05:35 8123 Jul 06 05:35 8123 Jul 06 06:52 8123 Jul 06 06:52 8123 Jul 08 11:24	0°¥ 14°¥10'59 13°¥33'37 16°¥00'40 0°Y 9°Y13'01 25°Y45'05 0°8 12°840'51 12°827'15 16°833'30 15°824'16 9°836'54 9°837'48 7°839'34 3°819'03 0°833'13 3°809'19 8°810'42 0°II 0°S 1°S48'56 9°S25'04 19°S32'48 19°S39'23 24°S10'31 0°Ω 5°Ω28'44	1°30'57 1.45514 AU -0.8m 19°06'51 3°23'40 3°23'33 0.66306 AU 26°18'19 1.34931 AU -0°22'25	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	8124 Feb 11 01:30 8124 Feb 15 09:41 8124 Feb 15 09:41 8124 Feb 27 08:58 8124 Mar 05 19:50 8124 Mar 13 01:11 8124 Mar 24 22:14 8124 Mar 29 16:27 8124 Apr 01 13:30 8124 Apr 04 07:06 8124 Apr 05 08:41 8124 Apr 10 17:08 8124 Apr 10 15:48 8124 Apr 11 15:15 8124 Apr 15 22:40 8124 Apr 15 22:40 8124 Apr 21 18:41 8124 May 02 04:53 8124 May 10 23:02 8124 May 10 23:02 8124 Jun 08 13:57 8124 Jun 12 04:52 8124 Jun 17 05:31 8124 Jun 18 16:36 8124 Jun 18 19:54	23°≈06'05 0° ₩ 0° ₩30'31 18° ₩37'09 0° Ψ 10° Ψ47'24 26° Ψ18'08 29° Ψ15'27 0° ੴ 0° ੴ43'19 30° R Ψ 29° Ψ19'16 23° Ψ22'11 22° Ψ03'04 17° Ψ00'42 14° Ψ24'25 20° Ψ08'19 21° Ψ28'01 0° ੴ 0° ∭ 13° ∭55'08 20° ∭29'02 0° ∰	0°48'45 1.45099 AU -0.6m 20°00'34 3°14'34 3°14'21 0.67445 AU 24°58'09 1.36875 AU -0°54'08
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	8123 Feb 22 17:41 8123 Mar 03 17:43 8123 Mar 04 21:43 8123 Mar 04 21:43 8123 Mar 13 20:21 8123 Mar 19 17:29 8123 Mar 30 07:27 8123 Apr 02 02:34 8123 Apr 11 17:37 8123 Apr 11 12:18 8123 Apr 18 15:14 8123 Apr 22 02:00 8123 Apr 27 13:55 8123 Apr 27 13:38 8123 Apr 27 13:38 8123 Apr 29 02:35 8123 May 03 00:52 8123 May 09 08:36 8123 May 16 07:56 8123 May 16 07:56 8123 May 22 03:53 8123 Jun 08 04:21 8123 Jun 08 04:21 8123 Jun 06 05:22 8123 Jun 07 04:49 8123 Jul 06 06:52 8123 Jul 06 06:52 8123 Jul 06 06:52 8123 Jul 06 06:52 8123 Jul 08 11:24 8123 Jul 11 06:26 8123 Jul 13 21:35 8123 Jul 27 11:40	0°¥ 14°¥10'59 13°¥33'37 16°¥00'40 0°Y 9°Y13'01 25°Y45'05 0°8 12°840'51 12°827'15 16°833'30 15°824'16 9°836'54 9°836'54 9°837'48 7°839'34 3°819'03 0°833'13 3°809'19 8°810'42 0°II 0°S 1°S48'56 9°S25'04 19°S32'48 19°S39'23 24°S10'31 0°Ω	1°30'57 1.45514 AU -0.8m 19°06'51 3°23'40 3°23'33 0.66306 AU 26°18'19 1.34931 AU -0°22'25 0°22'18	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	8124 Feb 11 01:30 8124 Feb 15 09:41 8124 Feb 15 09:41 8124 Feb 27 08:58 8124 Mar 05 19:50 8124 Mar 13 01:11 8124 Mar 24 22:14 8124 Mar 29 16:27 8124 Apr 01 13:30 8124 Apr 04 07:06 8124 Apr 05 08:41 8124 Apr 10 17:08 8124 Apr 10 15:48 8124 Apr 11 15:15 8124 Apr 15 22:40 8124 Apr 21 18:41 8124 May 02 04:53 8124 May 03 13:24 8124 May 10 23:02 8124 Jun 08 13:57 8124 Jun 12 04:52 8124 Jun 17 05:31 8124 Jun 18 16:36 8124 Jun 18 19:54 8124 Jun 27 01:27	23°≈06'05 0° ★ 0° ★30'31 18° ₩37'09 0° Ψ 10° Ψ47'24 26° Ψ18'08 29° Ψ15'27 0° ℧ 0° ℧ 43'19 30° ℝ Ψ 29° Ψ19'16 23° Ψ22'11 22° Ψ03'04 17° Ψ00'42 14° Ψ24'25 20° Ψ08'19 21° Ψ28'01 0° ℧ 0° Ⅱ 13° Ⅱ55'08 20° Ⅱ29'02 0° 亞 2° 亞51'09 3° 亞07'19 14° 亞09'24 19° 亞37'25	0°48'45 1.45099 AU -0.6m 20°00'34 3°14'34 3°14'21 0.67445 AU 24°58'09 1.36875 AU -0°54'08 0°53'40
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise	8123 Feb 22 17:41 8123 Mar 03 17:43 8123 Mar 04 21:43 8123 Mar 04 21:43 8123 Mar 13 20:21 8123 Mar 19 17:29 8123 Mar 30 07:27 8123 Apr 02 02:34 8123 Apr 11 17:37 8123 Apr 11 12:18 8123 Apr 18 15:14 8123 Apr 22 02:00 8123 Apr 27 13:55 8123 Apr 27 13:38 8123 Apr 27 13:38 8123 Apr 29 02:35 8123 May 03 00:52 8123 May 09 08:36 8123 May 16 07:56 8123 May 16 07:56 8123 May 22 03:53 8123 Jun 08 04:21 8123 Jun 08 04:21 8123 Jun 06 05:22 8123 Jun 07 04:49 8123 Jul 06 06:52 8123 Jul 06 06:52 8123 Jul 06 06:52 8123 Jul 08 11:24 8123 Jul 11 06:26 8123 Jul 13 21:35	0°\ 14°\(\pm\\)10'59 13°\(\pm\\)33'37 16°\(\pm\\)00'40 0°\(\pm\\) 9°\(\pm\\)13'01 25°\(\pm\\\)45'05 0°\(\pm\\) 12°\(\pm\\\)40'51 12°\(\pm\\\)42'15 16°\(\pm\\\)33'30 15°\(\pm\\\\)24'16 9°\(\pm\\\\)33'34 3°\(\pm\\\\\)33'34 3°\(\pm\\\\\\)33'34 3°\(\pm\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1°30'57 1.45514 AU -0.8m 19°06'51 3°23'40 3°23'33 0.66306 AU 26°18'19 1.34931 AU -0°22'25 0°22'18	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise	8124 Feb 11 01:30 8124 Feb 15 09:41 8124 Feb 15 09:41 8124 Feb 27 08:58 8124 Mar 05 19:50 8124 Mar 13 01:11 8124 Mar 24 22:14 8124 Mar 29 16:27 8124 Apr 01 13:30 8124 Apr 04 07:06 8124 Apr 05 08:41 8124 Apr 10 17:08 8124 Apr 10 15:48 8124 Apr 11 15:15 8124 Apr 15 22:40 8124 Apr 21 18:41 8124 May 02 04:53 8124 May 03 13:24 8124 May 10 23:02 8124 May 10 23:02 8124 Jun 08 13:57 8124 Jun 12 04:52 8124 Jun 18 16:36 8124 Jun 18 19:54 8124 Jun 24 08:26 8124 Jun 27 01:27 8124 Jun 27 01:27 8124 Jun 27 01:27	23°≈06'05 0°	0°48'45 1.45099 AU -0.6m 20°00'34 3°14'34 3°14'21 0.67445 AU 24°58'09 1.36875 AU -0°54'08 0°53'40

8126 May 14 17:02

8126 May 14 22:45

superior conj

minimum elong

27°813'20 -1°51'42

27°838'39 1°51'18

8125 Jun 11 05:27

8125 Jun 27 02:25

3°958'09

29°532'43 18°43'10

asc. node

evening max el

	8126 May 16 06:32	$\Pi^{\circ}0$		evening rise	8127 May 08 00:15	28° 8 53'36	
evening rise	8126 May 25 06:44	16° Ⅱ 29′28			8127 May 08 15:17	Π $\circ 0$	
asc. node	8126 May 29 02:29	23° Ⅲ 32′24		asc. node	8127 May 15 23:33	12° Ⅱ 46′02	
	8126 Jun 01 17:52	0 \circ \odot		evening max el	8127 May 24 22:44	25° Ⅱ 18'13	18°05'22
evening max el	8126 Jun 10 10:26	12° © 12'57	18°14'30	retrograde	8127 May 31 11:19	28° Ⅲ 39'54	
retrograde	8126 Jun 17 12:42	15° © 47'00		evening set	8127 Jun 03 03:06	28° Ⅲ 06′01	
evening set	8126 Jun 19 21:04	15° © 24'17		inferior conj	8127 Jun 09 14:39	23° Ⅱ 02'45	
inferior conj	8126 Jun 27 00:46	10° © 41'08	1°39'36	minimum elong	8127 Jun 09 17:32	22° Ⅱ 55'31	2°36'00
minimum elong	8126 Jun 27 03:37	10° © 34'57	1°38'33	min. Earth dist.	8127 Jun 12 16:36	19° ∏ 59'12	0.61526 AU
min. Earth dist.	8126 Jun 30 10:07	7° © 46'11	0.59276 AU	morning rise	8127 Jun 16 05:51	17° Ⅱ 01'45	
desc. node	8126 Jul 02 22:14	5° © 52'47		desc. node	8127 Jun 19 19:17	15° Ⅱ 13'03	
morning rise	8126 Jul 04 07:06	5° © 01'26		direct	8127 Jun 22 22:38	14° ∏ 42'55	
direct	8126 Jul 10 14:56	3°©11'28		morning max el	8127 Jul 07 03:49	22° Ⅱ 43'02	27°55'10
morning max el	8126 Jul 24 23:45	11° © 01'02	27°30'23		8127 Jul 13 14:25	0₀æ	
	8126 Aug 08 18:16	0 $^{\circ}$ Ω			8127 Aug 01 22:59	0 ° Ω	
morning set	8126 Aug 25 08:51	0° m/22'51		morning set	8127 Aug 09 11:33	14° Ω 37'47	
asc. node	8126 Aug 25 01:53	29° Ω 46′27		asc. node	8127 Aug 11 22:53	19° Ω 47'06	
	8126 Aug 25 04:29	0° Тф		max. Earth dist.	8127 Aug 15 05:24	26° Ω 49'04	1.31967 AU
superior conj	8126 Sep 01 11:01	15° m 47'08	1°09'07	superior conj	8127 Aug 16 21:16	0°m/27'16	0°48'31
minimum elong	8126 Sep 01 08:46	15° m 34'39		minimum elong	8127 Aug 16 19:19	0° m) 16'33	0°48'04
max. Earth dist.	8126 Aug 31 21:03	14° m 29'43	1.31670 AU		8127 Aug 16 16:18	0° m	
	8126 Sep 07 22:25	0∘ ত		evening rise	8127 Aug 23 16:14	15° Mp 18'42	
evening rise	8126 Sep 08 05:11	0° £ 36′08		-	8127 Aug 30 22:12	0∘ ⊽	
	8126 Sep 24 02:25	0°M		desc. node	8127 Sep 15 18:13	23° ≏ 54'01	
desc. node	8126 Sep 28 21:07	6°M50′26		evening max el	8127 Sep 18 10:42	26° ≏ 40'45	24°45'10
evening max el	8126 Oct 06 19:43	15°M55'34	26°09'21		8127 Sep 22 09:44	0° M	
retrograde	8126 Oct 20 17:56	23°M00'00		retrograde	8127 Oct 02 06:32	3°M38'17	
evening set	8126 Oct 27 05:13	21°M19'27		evening set	8127 Oct 07 16:13	2°M32'53	
min. Earth dist.	8126 Oct 31 08:46	18° M 44'46	0.58764 AU		8127 Oct 12 13:39	30°Ŗ 죠	
inferior conj	8126 Nov 03 12:46	16°M23'59	-4°52'06	min. Earth dist.	8127 Oct 12 21:50	29° ≏ 47'16	0.56839 AU
minimum elong	8126 Nov 03 19:36	16°M11'16	4°50'34	inferior conj	8127 Oct 15 15:06	28° ഫ 02'02	-5°29'43
morning rise	8126 Nov 11 12:17	11°M55'26		minimum elong	8127 Oct 15 18:03	27° ≏ 57'17	5°29'27
direct	8126 Nov 13 18:59	11°M37'59		morning rise	8127 Oct 23 22:05	23° ჲ 56′08	
asc. node	8126 Nov 21 01:26	14°M47'36		direct	8127 Oct 26 11:20	23° ≏ 38′01	
morning max el	8126 Nov 21 22:14	15°M35'19	18°30'00	morning max el	8127 Nov 04 20:53	28° ≏ 05'12	19°22'52
	8126 Dec 01 23:21	0° ∡ ¹			8127 Nov 06 17:04	0° ™	
morning set	8126 Dec 07 22:44	11° ₹ 12'14		asc. node	8127 Nov 07 22:28	1° M 27'02	
	010675 16 01 00	200 712144	1000100	morning set	8127 Nov 22 00:21	25°M39'13	
superior conj	8126 Dec 16 21:08	28° ∡ 13'44			8127 Nov 24 04:21	0° ∡ ¹	
minimum elong	8126 Dec 17 00:34	28° ₹ 29'42	1°03'10		0107 N 20 01 52	110 7 42120	100 411 5
F 41 11 4	8126 Dec 17 20:08	0°る	1 40202 ATT	superior conj	8127 Nov 30 01:53	11° 🗷 43'28	1°24'15
max. Earth dist.	8126 Dec 24 07:27	11°る33'36	1.40283 AU	minimum elong	8127 Nov 30 04:43	11° 🗷 57'17	1°24'07
desc. node evening rise	8126 Dec 25 20:07 8126 Dec 28 14:03	14°පි11'16 18°පි49'00		max. Earth dist.	8127 Dec 06 13:20 8127 Dec 09 21:53	23°メ58'38 0°る	1.38114 AU
evening rise	8127 Jan 04 12:32	18 ⊙ 4900		evening rise	8127 Dec 10 06:54	0° る 39'35	
	8127 Jan 25 17:22	0° ∀		desc. node	8127 Dec 10 00:34 8127 Dec 12 17:09	4°る51'28	
evening max el	8127 Feb 01 06:19	7° ∺ 21'52	23°44'02	dese. Hode	8127 Dec 28 19:00	0°≈	
retrograde	8127 Feb 12 02:28	13°) (45'12	25 1102	evening max el	8128 Jan 14 19:32	21° ≈ 08'50	25°01'29
evening set	8127 Feb 17 06:16	11°) (36'24		retrograde	8128 Jan 26 16:15	28° ≈ 02'01	20 0129
asc. node	8127 Feb 17 00:36	11°) (38 2 1		evening set	8128 Feb 01 08:46	25°≈40'09	
min. Earth dist.	8127 Feb 22 01:44	6°) €00'48	0.68260 AU	asc. node	8128 Feb 03 21:41	23° ≈ 05'03	
inferior conj	8127 Feb 22 16:53	5°) €09'08	1°46'22	min. Earth dist.	8128 Feb 05 20:32	20° ≈ 39'05	0.67722 AU
minimum elong	8127 Feb 22 14:48	5°) 16′13	1°45'43	inferior conj	8128 Feb 06 23:06	19° ≈ 11'58	0°59'46
	8127 Feb 26 22:09	30°R≈		minimum elong	8128 Feb 06 21:43	19° ≈ 16'30	0°59'21
morning rise	8127 Feb 27 23:20	29°≈05'04		morning rise	8128 Feb 12 10:57	13° ≈ 15'17	
direct	8127 Mar 04 02:13	27° ≈ 29′29		direct	8128 Feb 16 01:11	12° ≈ 01'06	
	8127 Mar 09 20:14	0°) €		morning max el	8128 Feb 23 06:56	16° ≈ 02'47	19°34'01
morning max el	8127 Mar 12 04:43	2°) €07'05	20°40'54	-	8128 Mar 05 03:58	0°)	
desc. node	8127 Mar 23 19:45	16°) (44′06		greatest brilliancy	8128 Mar 07 01:02	2°) 45′01	-0.7m
	8127 Apr 01 21:28	0 ° $\mathbf{\Upsilon}$		desc. node	8128 Mar 09 16:42	6°) 42′06	
morning set		• •		morning set	8128 Mar 19 12:45	21°) 41'44	
C	8127 Apr 10 15:08	13° Y 20'42		morning sec			
max. Earth dist.	8127 Apr 10 15:08 8127 Apr 19 05:05	13° Υ '20'42 26° Υ '56'48	1.43240 AU	morning sec	8128 Mar 24 21:28	0° Υ	
•	-		1.43240 AU	max. Earth dist.			1.44660 AU
max. Earth dist.	8127 Apr 19 05:05 8127 Apr 21 02:10	26° Ƴ 56'48 0° ႘		max. Earth dist.	8128 Mar 24 21:28 8128 Mar 31 17:56	0° Υ 10° Υ 44'59	
•	8127 Apr 19 05:05	26° Y 56'48	-2°08'44	_	8128 Mar 24 21:28	0° Υ	-2°10'01

	8128 Apr 12 15:58	0°8		max. Earth dist.	8129 Mar 14 11:07	25° ₩ 01'01	1.45409 AU
evening rise	8128 Apr 18 21:38	10° 8 23'40					
	8128 Apr 30 19:58	$\Pi^{\circ}0$		superior conj	8129 Mar 15 09:22	26° ∺ 28′10	
asc. node	8128 May 01 20:38	1° Ⅱ 32'12		minimum elong	8129 Mar 15 00:26	25° ¥ 53′12	1°50'34
evening max el	8128 May 07 12:03	8° Ⅱ 40'13	18°15'08		8129 Mar 17 15:21	0° Υ	
retrograde	8128 May 13 21:19	12° Ⅲ 04'04		evening rise	8129 Mar 30 19:31	20° Y 54'35	
evening set	8128 May 16 20:13	11° Ⅱ 17'21			8129 Apr 05 11:26	0°8	
inferior conj	8128 May 22 19:42	5° Ⅱ 55'43	3°09'36	greatest brilliancy	8129 Apr 07 05:04	2° 8 46'20	-0.9m
minimum elong	8128 May 22 21:31	5° Ⅱ 50'37	3°09'13	asc. node	8129 Apr 18 17:43	19° 8 41'58	
min. Earth dist.	8128 May 25 08:27	3° Ⅱ 05'45	0.63644 AU	evening max el	8129 Apr 20 23:34	22° 8 12'07	18°43'06
morning rise	8128 May 28 21:33	29° 8 43'01		retrograde	8129 Apr 27 14:31	25° 8 51'03	
1' 4	8128 May 28 13:07	30°R と 27° と 04'04		evening set	8129 Apr 30 20:43	24° 8 50'24	2022102
direct	8128 Jun 04 15:37	27° 8 07'28		inferior conj	8129 May 06 11:55	19° 8 12'10	3°22'54
desc. node	8128 Jun 05 16:19 8128 Jun 12 13:24	2/° Ο 0/′28 0° Π		minimum elong min. Earth dist.	8129 May 06 12:22 8129 May 08 09:29	16° 8 52'15	0.65445 AU
morning may al	8128 Jun 18 12:33	5° П 06'04	2794211	morning rise	8129 May 12 03:21	10 8 32 13	0.03443 AU
morning max el	8128 Jul 07 08:02	0°95	2/ 4211	direct	8129 May 18 16:19	12 8 3447	
morning set	8128 Jul 23 07:07	28° 5 29'19		desc. node	8129 May 23 13:19	11° 8 24'32	
morning set	8128 Jul 24 01:14	28 3 29 19		morning max el	8129 May 23 13.19 8129 May 31 22:59	.T.	26°56'23
max. Earth dist.	8128 Jul 28 07:42	8° Ω 48'13	1.32734 AU	morning max ci	8129 Jun 11 00:48	0°II	20 30 23
asc. node	8128 Jul 28 19:53	9° £ 52'34	1.52754710		8129 Jun 30 06:32	0ಂ ತಾ	
use. Houe	0120341 20 17.55	y 00 3231		morning set	8129 Jul 06 16:34	11° © 49'26	
superior conj	8128 Jul 31 04:10	14° Ω 53'21	0°23'40	max. Earth dist.	8129 Jul 11 00:26		1.33985 AU
minimum elong	8128 Jul 31 03:03	14°Ω47'20	0°23'19	man. Barur dist.	0129 041 11 00.20	20 01707	1.553 00 110
evening rise	8128 Aug 07 03:54	29° £ 59'38		superior conj	8129 Jul 15 05:33	28°959'40	-0°04'47
Č	8128 Aug 07 03:58	0° m p		minimum elong	8129 Jul 15 05:49	29° © 01'03	0°04'53
	8128 Aug 23 22:38	0 o $\overline{\mathbf{v}}$		behind sun begin	8129 Jul 15 00:22	28° © 32'35	
evening max el	8128 Aug 29 21:58	6° £ 55'52	23°06'50	behind sun end	8129 Jul 15 11:16	29° 5 29'33	
desc. node	8128 Sep 01 15:19	9° ≏ 19'57		asc. node	8129 Jul 15 16:54	29° © 59'04	
retrograde	8128 Sep 12 07:04	13° ≏ 37'13			8129 Jul 15 17:04	$0^{\circ}\Omega$	
evening set	8128 Sep 16 04:47	13° ഫ 03'50		evening rise	8129 Jul 22 14:17	14° Ω 33'32	
min. Earth dist.	8128 Sep 23 06:54	9° ഫ 49'09	0.55382 AU		8129 Jul 30 09:37	0° m	
inferior conj	8128 Sep 24 21:51	8° ჲ 52'38	-5°25'44	evening max el	8129 Aug 11 14:30	17° m 17'21	21°31'06
minimum elong	8128 Sep 24 17:29	8° ≏ 59'00	5°25'18	desc. node	8129 Aug 19 12:25	22°M 36'46	
morning rise	8128 Oct 03 08:17	5° ≙ 02'25		retrograde	8129 Aug 23 21:19	23° m 22'47	
direct	8128 Oct 06 08:21	4° £ 41'04		evening set	8129 Aug 26 10:43	23°Mp07'51	
morning max el	8128 Oct 17 07:05	9° ≏ 48'22	20°38'06	inferior conj	8129 Sep 04 16:01	19° m 09'37	-4°27'01
asc. node	8128 Oct 24 19:28	19° ഫ 06'20		minimum elong	8129 Sep 04 06:38	19° m 22'44	4°24'42
	8128 Oct 31 03:00	0°M₊		min. Earth dist.	8129 Sep 04 15:48		0.54709 AU
morning set	8128 Nov 05 07:26	10°M20'01		morning rise	8129 Sep 13 03:30	15° Mp 18'37	
				direct	8129 Sep 16 17:48	14° m 50'33	
superior conj	8128 Nov 12 18:50		1°36'33	morning max el	8129 Sep 29 04:53	20° m/44'29	22°12'46
minimum elong	8128 Nov 12 20:27		1°36'35		8129 Oct 06 22:59	0∘ ʊ	
E d Ed	8128 Nov 14 20:46	0° ∡ 7	1 26065 ATT	asc. node	8129 Oct 11 16:28	7° £ 31'49	
max. Earth dist.	8128 Nov 17 21:00	5° ₹ 55'58	1.36065 AU	morning set	8129 Oct 20 17:45	25° Ω 08'25	
evening rise desc. node	8128 Nov 21 19:10 8128 Nov 28 14:11	13° 尽 21'40 25° 尽 22'48			8129 Oct 23 00:48	0°M	
desc. node		23 x・2248		suporior coni	9120 Oct. 27, 20:10	10°M 15'33	1°41'21
	8128 Dec 01 08:51 8128 Dec 22 17:24	0° ≈		superior conj minimum elong	8129 Oct 27 20:19 8129 Oct 27 20:35	10°11615'33	1°41'21 1°41'27
evening max el	8128 Dec 27 08:30	0 ~ 4° ≈ 54'48	26°00'18	max. Earth dist.	8129 Oct 27 20:33 8129 Oct 31 11:28	17°M49'24	1.34332 AU
retrograde	8129 Jan 09 01:09	12°≈07'05	20 07 10	evening rise	8129 Nov 04 23:03	26°M45'45	1.57552 AU
evening set	8129 Jan 15 06:10	9°≈35'26		evening rise	8129 Nov 04 25:05 8129 Nov 06 15:38	0° ∡ 7	
min. Earth dist.	8129 Jan 19 11:17	5°≈08'56	0.66805 AU	desc. node	8129 Nov 15 11:15	15° ∡ 740'15	
asc. node	8129 Jan 20 18:46	3° ≈ 31'46	0.00000 110	dese. node	8129 Nov 24 17:00	0°る	
inferior conj	8129 Jan 21 01:19	3°≈11'28	0°05'28	evening max el	8129 Dec 09 21:43	18° る 33'34	27°00'03
minimum elong	8129 Jan 21 01:10	3°≈11'56	0°05'33	retrograde	8129 Dec 23 04:25	25° る 53'23	
transit middle	8129 Jan 21 01:10	3°≈11'56	0°05'33	evening set	8129 Dec 29 20:27	23° る 17'11	
transit begin	8129 Jan 20 22:29	3° ≈ 20'15		min. Earth dist.	8130 Jan 02 19:44	19° る 24'52	0.65531 AU
transit end	8129 Jan 21 03:51	3°≈03'37		inferior conj	8130 Jan 04 21:22	17° る 03'19	
	8129 Jan 23 18:45	30° ₹ ⋜		minimum elong	8130 Jan 04 22:59	16° පි 58'41	0°55'01
morning rise	8129 Jan 26 20:51	27° පි 24'03		asc. node	8130 Jan 07 15:49	14° පි 03'50	
direct	8129 Jan 29 23:55	26° පි 28'28		morning rise	8130 Jan 11 02:43	11° る 27'36	
morning max el	8129 Feb 05 16:27	0° ≈ 06'35	18°42'35	direct	8130 Jan 13 20:30	10° ප් 46'51	
	8129 Feb 05 13:46	0° ≈		morning max el	8130 Jan 20 07:11	14° る 12'36	18°07'42
desc. node	8129 Feb 24 13:38	26° ≈ 58'33			8130 Jan 31 16:17	0° ≈	
	8129 Feb 26 11:53	0°) €		morning set	8130 Feb 07 19:22	11° ≈ 33'56	
morning set	8129 Feb 27 01:39	0°) 54′03		desc. node	8130 Feb 11 10:34	17° ≈ 28′20	

morning set	8132 Jan 03 12:09	6° る 39'14		asa nada	8132 Nov 28 06:54	23°ML08'02	
morning set	8132 Jan 03 12.09	0 03914		asc. node morning max el	8132 Nov 28 06.34 8132 Dec 01 05:26	25°M28'04	18°09'39
superior conj	8132 Jan 14 12:56	26° る 03'40	0°12'08	morning max er	8132 Dec 01 03:20 8132 Dec 05 01:19	23 11628 04 0° x 7	16 09 39
minimum elong	8132 Jan 14 14:04	26°る03'40	0°12'06	morning set	8132 Dec 05 01:19 8132 Dec 16 22:41	20° × ⁷ 25'20	
behind sun begin	8132 Jan 14 08:19	25° ♂ 43'57	0 12 00	morning set	8132 Dec 22 01:22	0°궁	
behind sun end	8132 Jan 14 19:49	26° る 32'56			0132 Dec 22 01.22	° O	
desc. node	8132 Jan 16 04:31	28° ろ 51'23		superior conj	8132 Dec 26 12:49	8° ਰ 11'15	0°47'19
dese. node	8132 Jan 16 20:51	0°≈		minimum elong	8132 Dec 26 16:01	8° る 25'39	0°47'00
max. Earth dist.	8132 Jan 21 17:32	8°≈01'42	1.43343 AU	desc. node	8133 Jan 02 01:33	19° る 37'00	0 1, 00
evening rise	8132 Jan 28 22:17	19° ≈ 28'54		max. Earth dist.	8133 Jan 03 04:18	21° ප 30'17	1.41486 AU
	8132 Feb 04 19:02	0°) €		evening rise	8133 Jan 08 04:55	29° පි 48'12	
	8132 Feb 26 10:00	$_{0}$ $^{\circ}$ Υ		Ü	8133 Jan 08 07:50	0° ≈	
evening max el	8132 Feb 29 06:26	3° Ƴ 06'48	21°39'08		8133 Jan 28 07:47	0° ∀	
retrograde	8132 Mar 09 07:54	8° Ƴ 28'42		evening max el	8133 Feb 10 22:49	16°) 48'32	22°57'44
asc. node	8132 Mar 09 08:55	8° Ƴ 28'42		retrograde	8133 Feb 21 03:44	22° ℋ 51'30	
evening set	8132 Mar 13 17:17	6° Ƴ 42'53		asc. node	8133 Feb 24 06:00	22° ℋ 03'37	
inferior conj	8132 Mar 19 00:45	0° Υ 25'22	2°42'56	evening set	8133 Feb 26 00:26	20° 升 50'51	
minimum elong	8132 Mar 18 22:35	0° Ƴ 32'55	2°42'26	inferior conj	8133 Mar 03 09:27	14° ℋ 25'46	2°09'30
min. Earth dist.	8132 Mar 19 04:09	0° Υ 13'33	0.68309 AU	minimum elong	8133 Mar 03 07:13	14°) €33'32	2°08'51
	8132 Mar 19 08:03	30° ₹ ₩		min. Earth dist.	8133 Mar 03 00:54	14°) 55′23	0.68395 AU
morning rise	8132 Mar 24 03:45	24° ₩ 13'01		morning rise	8133 Mar 08 13:54	8° ₩ 18'08	
direct	8132 Mar 29 04:17	22° ₩ 02'37		direct	8133 Mar 13 00:26	6°) 29'49	
morning max el	8132 Apr 08 03:52	27° ¥ 56'54	22°50'59	morning max el	8133 Mar 21 18:15	11°) 33′51	21°25'23
	8132 Apr 10 02:31	0 ° $\mathbf{\Upsilon}$		desc. node	8133 Mar 31 01:10	22° ∺ 47'00	
desc. node	8132 Apr 13 04:11	3° Ƴ 33'53			8133 Apr 05 05:28	0 ° $\mathbf{\Upsilon}$	
	8132 May 02 01:14	$_{0\circ}$ 8		morning set	8133 Apr 22 07:58	25° Ƴ 49'52	
morning set	8132 May 12 11:50	16° 8 35'48			8133 Apr 24 22:45	9° 8	
max. Earth dist.	8132 May 17 00:25	24° 8 12'40	1.40046 AU	max. Earth dist.	8133 Apr 29 01:37	6° 8 41'39	1.42175 AU
	8132 May 20 08:23	Π $\circ 0$					
				superior conj	8133 May 06 12:20	19° 8 14'52	
superior conj	8132 May 24 18:29	7° Ⅱ 55'38		minimum elong	8133 May 06 17:29	19° 8 37'10	2°00'14
minimum elong	8132 May 25 00:08	8° Ⅱ 21′23	1°36'39		8133 May 12 14:54	$\Pi^{\circ 0}$	
evening rise	8132 Jun 03 14:06	26° Ⅱ 21'35		evening rise	8133 May 17 17:08	9° Ⅱ 12'39	
asc. node	8132 Jun 05 07:56	29° Ⅱ 40′10		asc. node	8133 May 23 04:59	19° Ⅱ 06'17	
	8132 Jun 05 12:08	0°€			8133 May 29 22:05	0°©	
evening max el	8132 Jun 19 16:00	22°©12'45	18°28'29	evening max el	8133 Jun 03 02:14	5°904'23	18°08'16
retrograde	8132 Jun 27 07:35	26°501'40		retrograde	8133 Jun 09 21:29	8°931'29	
evening set	8132 Jun 29 11:27	25°544'18	0053150	evening set	8133 Jun 12 08:55	8°504'27	2007110
inferior conj	8132 Jul 07 02:01	21°9512'51	0°53'58	inferior conj	8133 Jun 19 05:18	3°5012'48	2°07'10
minimum elong	8132 Jul 07 03:52	21°909'09	0°53′10	minimum elong	8133 Jun 19 08:22	3°905'41	2°06'09
desc. node	8132 Jul 10 03:34 8132 Jul 10 10:42	18°9647'21	0.50000 ATT	min. Earth dist.	8133 Jun 22 12:38	0°©10'51 30°R∏	0.60227 AU
min. Earth dist. morning rise	8132 Jul 10 10:42 8132 Jul 14 16:51	18°933'48 15°949'48	0.58022 AU	morning rise	8133 Jun 22 17:38 8133 Jun 26 05:02	30°KⅡ 27°Ⅱ22'24	
direct	8132 Jul 20 15:44	13 94948 14°9518'27		desc. node	8133 Jun 27 00:38	26° I 53'39	
morning max el	8132 Aug 04 01:12	21°958'29	26°50'17	direct	8133 Jul 02 17:37	25° I 19'09	
morning max ci	8132 Aug 11 02:43	0°Ω	20 37 17	uncet	8133 Jul 13 10:50	0°9	
	8132 Aug 29 11:43	0° m p		morning max el	8133 Jul 17 01:42	3°915'20	27°45'45
asc. node	8132 Sep 01 07:23	5° m) 41'00		morning max or	8133 Aug 05 16:49	0° Ω	27 13 13
morning set	8132 Sep 03 02:15	9° m) 24'49		morning set	8133 Aug 18 07:57	23° Ω 50'05	
5 5 5	1			asc. node	8133 Aug 19 04:22	25° Ω 36'51	
superior conj	8132 Sep 10 01:34	24° m/38'09	1°18'53		8133 Aug 21 05:49	0° m	
minimum elong	8132 Sep 09 23:22	24° m) 25'57	1°18'33	max. Earth dist.	8133 Aug 24 12:06		1.31727 AU
max. Earth dist.	8132 Sep 10 02:20	24° m/42'26	1.31699 AU				
	8132 Sep 12 11:40	0∘ ত		superior conj	8133 Aug 25 12:53	9° ™ 23'44	1°00'56
evening rise	8132 Sep 16 21:05	9° £ 31'42		minimum elong	8133 Aug 25 10:41	9° m 11'39	1°00'30
C	8132 Sep 27 09:33	0° M .		evening rise	8133 Sep 01 06:53	24° m/ 12'07	
desc. node	8132 Oct 06 02:29	13°M49'39		ū	8133 Sep 04 01:05	0∘ ⊽	
evening max el	8132 Oct 16 22:09	26°M44'12	26°45'41		8133 Sep 21 17:14	0° M ₊	
	8132 Oct 20 19:23	0° ∡ ¹		desc. node	8133 Sep 22 23:34	1°M36'43	
retrograde	8132 Oct 30 20:00	3° х 52'46		evening max el	8133 Sep 28 17:24	7°M56'10	25°36'25
evening set	8132 Nov 06 16:13	1° ∡ 753′58		retrograde	8133 Oct 12 15:40	14°M59'00	
	8132 Nov 09 13:38	30°RM₊		evening set	8133 Oct 18 17:29	13°M33'03	
min. Earth dist.	8132 Nov 10 12:09	29°M17'28	0.59960 AU	min. Earth dist.	8133 Oct 23 05:42	10°M55'55	0.57901 AU
inferior conj	8132 Nov 13 16:55	26°M43'19	-4°19'02	inferior conj	8133 Oct 26 06:55	8°M48'06	-5°11'54
minimum elong	8132 Nov 14 00:10	26°M28'42	4°16'58	minimum elong	8133 Oct 26 12:39	8°M38'03	5°10'57
morning rise	8132 Nov 21 10:30	22°ML02'05		morning rise	8133 Nov 03 10:09	4°M29'35	
direct	8132 Nov 23 15:43	21°M43'47		direct	8133 Nov 05 18:47	4°M12'21	

morning max el	8133 Nov 14 10:12	8°M21'27	18°49'44	asc. node	8134 Nov 02 00:57	26° £ 11'58	
asc. node	8133 Nov 15 03:56	9° M 05'44			8134 Nov 04 14:54	0°M₊	
	8133 Nov 28 10:13	0° ∡ 7		morning set	8134 Nov 15 00:03	19° M ₊13'20	
morning set	8133 Nov 30 19:49	4° ≯ ¹40'00			8134 Nov 20 07:08	0°⊀	
superior conj	8133 Dec 09 08:27	21° ≯ 14'42	1°13'21	superior conj	8134 Nov 22 18:51	4° ₹ 759'52	
minimum elong	8133 Dec 09 11:46	21° ⋌ ³30′23	1°13'06	minimum elong	8134 Nov 22 21:12	5° ⋌ 11'34	1°30'23
	8133 Dec 14 01:39	0°る		max. Earth dist.	8134 Nov 28 16:35	16° ₹ ¹25'35	1.37219 AU
max. Earth dist.	8133 Dec 16 10:37	4° る 15'14	1.39362 AU	evening rise	8134 Dec 02 10:47	23° ₹ 19′10	
desc. node	8133 Dec 19 22:34	10°る20'09			8134 Dec 06 06:14	8°0	
evening rise	8133 Dec 20 09:15	11° る 05'40		desc. node	8134 Dec 06 19:36	0° る 57'01	
	8134 Jan 01 03:59	0° ≈			8134 Dec 25 22:05	0° ≈	
	8134 Jan 23 23:12	0° ∀		evening max el	8135 Jan 07 01:53	14° ≈ 21'40	25°32'02
evening max el	8134 Jan 24 12:41	0°) €33'51	24°17'42	retrograde	8135 Jan 19 07:46	21° ≈ 23'51	
retrograde	8134 Feb 04 20:03	7°) 11′39		evening set	8135 Jan 25 05:37	18° ≈ 57'39	
evening set	8134 Feb 10 05:05	4° 升 57'11		asc. node	8135 Jan 29 00:11	14°≈56'15	
asc. node	8134 Feb 11 03:05	4°) €06'33		min. Earth dist.	8135 Jan 29 14:33	14° ≈ 11'07	0.67379 AU
	8134 Feb 14 13:58	30°R≈		inferior conj	8135 Jan 30 21:54	12° ≈ 30'43	0°37'42
min. Earth dist.	8134 Feb 14 21:10	29° ≈ 35'58	0.68077 AU	minimum elong	8135 Jan 30 20:58	12° ≈ 33'41	0°37'26
inferior conj	8134 Feb 15 17:08	28° ≈ 28'47	1°27'36	morning rise	8135 Feb 05 12:43	6° ≈ 37'30	
minimum elong	8134 Feb 15 15:17	28° ≈ 35'00	1°27'01	direct	8135 Feb 08 22:04	5°≈31'27	
morning rise	8134 Feb 21 01:33	22° ≈ 27'22	,	morning max el	8135 Feb 15 21:07	9° ≈ 21'28	19°10'04
direct	8134 Feb 24 22:51	21°≈01'07		greatest brilliancy	8135 Mar 01 05:50	27°≈13'45	-0.7m
morning max el	8134 Mar 04 15:44	25°≈22'20	20°10'31	greatest oriniancy	8135 Mar 03 01:43	0° ∀	0.7111
morning max er	8134 Mar 08 18:22	0° ∀	20 1031	desc. node	8135 Mar 04 19:04	2° X 37'50	
desc. node	8134 Mar 17 22:07	12°) (31'15		morning set	8135 Mar 11 09:15	12°) (47'23	
desc. flode	8134 Mar 29 14:13	12 γ (3113		morning set	8135 Mar 22 10:36	12 Λ 4/23	
marning gat		0 γ 4° Υ 12'13		may Earth dist		0 γ 4° Υ 06'18	1.45072 AU
morning set	8134 Apr 01 07:50	4° \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1 42017 ATT	max. Earth dist.	8135 Mar 25 01:20	4 1 00 18	1.45072 AU
max. Earth dist.	8134 Apr 11 10:06	20° 1 03′24	1.43917 AU		0125 M 20 00 07	000045142	200.412.2
	0124 4 17 06 02	2000020122	2011124	superior conj	8135 Mar 28 00:07	8° Υ 45'43	
superior conj	8134 Apr 17 06:03	29° Υ 30'23		minimum elong	8135 Mar 27 18:07	8° Υ 21'57	2°04'18
minimum elong	8134 Apr 17 07:02	29° Y 34'24	2°11'3/		8135 Apr 10 04:13	0° 8	
	8134 Apr 17 13:16	0° 8		evening rise	8135 Apr 11 14:09	2° 8 19'22	
evening rise	8134 Apr 30 02:37	21° 8 14'51		asc. node	8135 Apr 26 23:07	26° 8 41'16	
	8134 May 05 04:19	Π $^{\circ}0$			8135 Apr 29 13:28	$\Pi^{\circ 0}$	
asc. node	8134 May 10 02:03	8° ∏ 09'29		evening max el	8135 May 01 04:21	1° ∏ 45'40	18°24'53
evening max el	8134 May 17 15:26	18° Ⅱ 18'30	18°07'19	retrograde	8135 May 07 14:49	5° Ⅱ 14'03	
retrograde	8134 May 24 01:22	21° Ⅲ 39′10		evening set	8135 May 10 16:53	4° Ⅱ 21′20	
evening set	8134 May 26 20:13	21° I 100'00			8135 May 15 13:04	30° ₹ 8	
inferior conj	8134 Jun 02 02:10	15° Ⅱ 49'01		inferior conj	8135 May 16 12:24	28° 8 52'26	
minimum elong	8134 Jun 02 04:41	15° Ⅱ 42'23		minimum elong	8135 May 16 13:38	28° 8 48'48	3°17'07
min. Earth dist.	8134 Jun 04 23:06	12° Ⅱ 48'36	0.62458 AU	min. Earth dist.	8135 May 18 18:44	26° 8 13'53	0.64463 AU
morning rise	8134 Jun 08 11:24	9° Ⅱ 42'10		morning rise	8135 May 22 09:28	22° 8 37'21	
desc. node	8134 Jun 13 21:39	7° Ⅱ 18'42		direct	8135 May 29 02:09	19° 8 53'35	
direct	8134 Jun 15 05:48	7° Ⅱ 13'04		desc. node	8135 May 31 18:40	20° 8 16'52	
morning max el	8134 Jun 29 07:52	15° Ⅱ 15′21	27°54'00	morning max el	8135 Jun 11 17:27	27° 8 51'46	27°26'13
	8134 Jul 11 08:05	0 \circ \odot			8135 Jun 13 18:13	Π $^{\circ}0$	
	8134 Jul 29 07:30	$0^{\circ}\Omega$			8135 Jul 05 02:06	0 \circ \odot	
morning set	8134 Aug 02 07:54	7° Ω 55'48		morning set	8135 Jul 16 23:29	21° © 34'19	
asc. node	8134 Aug 06 01:22	15° Ω 40′10			8135 Jul 21 04:01	$0^{\circ}\Omega$	
max. Earth dist.	8134 Aug 07 18:08	19° Ω 17'55	1.32231 AU	max. Earth dist.	8135 Jul 21 16:43	1° Ω 05'35	1.33214 AU
				asc. node	8135 Jul 23 22:22	5° Ω 46'13	
superior conj	8134 Aug 09 21:57	23° Ω 58'46	0°38'28				
minimum elong	8134 Aug 09 20:17	23° Ω 49'42	0°38'03	superior conj	8135 Jul 25 02:45	8° Ω 16'49	0°11'59
S	8134 Aug 12 15:58	0° mp		minimum elong	8135 Jul 25 02:09	8° Ω 13'39	
evening rise	8134 Aug 16 18:25	8° m 54'39		behind sun begin	8135 Jul 24 22:24	7° £ 53'42	
8 21	8134 Aug 27 14:07	0∘ ⊽		behind sun end	8135 Jul 25 05:54	8° £ 33'36	
desc. node	8134 Sep 09 20:39	18° ≏ 02'16		evening rise	8135 Aug 01 05:45	23° Ω 33'02	
evening max el	8134 Sep 10 06:05	18° £ 25'16	24°04'10		8135 Aug 04 08:09	0° m	
retrograde	8134 Sep 23 23:01	25° £ 17'18		evening max el	8135 Aug 22 18:29	28° Mp 38'06	22°24'50
evening set	8134 Sep 28 17:55	23 ≅ 17 18 24° £ 26'58		Croning max of	8135 Aug 24 05:51	ე∘ ი	22 27 JU
min. Earth dist.	8134 Oct 04 16:47		0.56141 AU	desc. node	8135 Aug 27 17:43	o – 2° ≏ 36'49	
inferior conj	8134 Oct 04 10:47 8134 Oct 07 00:32	21° ⊆ 3043 20° ⊆ 05'18		retrograde	8135 Sep 04 17:57	5° £ 06'01	
minimum elong	8134 Oct 07 00:32 8134 Oct 07 00:33	20° ⊆ 05'15		evening set	8135 Sep 04 17.37 8135 Sep 08 00:44	4° £ 42'17	
morning rise	8134 Oct 15 09:20	20 ≥ 03 13 16° ♀ 07'00	5 57 12	min. Earth dist.	8135 Sep 16 01:03		0.54990 AU
direct	8134 Oct 13 09:20 8134 Oct 18 02:42	16 2 07 00 15° 2 47'47		inferior conj	8135 Sep 10 01:03 8135 Sep 17 00:30	0° £ 38'05	
morning max el	8134 Oct 18 02:42 8134 Oct 28 03:40	15° £ 47'47 20° £ 31'26	19°52'09	minimum elong	8135 Sep 17 00:30 8135 Sep 16 17:16	0° ഫ 38'03	
morning max er	0134 001 20 03.40	20 == 31 20	17 34 07	mmmum etong	01.10 deh 10 1/.10	0 ==4018	5 00 25

	8135 Sep 18 03:36	30°R M)		minimum elong	8136 Aug 26 07:37	11° m 00'40	3°44'03
morning rise	8135 Sep 16 05:36 8135 Sep 25 11:35	26° Mp 50'10		min. Earth dist.	8136 Aug 27 10:06	10° m) 23'04	0.54707 AU
direct	8135 Sep 28 17:41	26° m/26'15		morning rise	8136 Sep 04 04:22	6° Mp 50'17	0.54707710
direct	8135 Oct 08 02:54	ე∘ <u>ი</u>		direct	8136 Sep 08 01:37	6° Mp 17'57	
morning max el	8135 Oct 10 08:06	0 — 1° Ω 52'38	21°16'27	morning max el	8136 Sep 21 01:40	12° m 31'01	22°57'19
asc. node	8135 Oct 19 21:56	14° £ 12'03	21 1027	morning max or	8136 Oct 04 03:36	0° ي	22 37 17
use. Hous	8135 Oct 28 10:31	0°M		asc. node	8136 Oct 05 18:55	2° ₽ 53'02	
morning set	8135 Oct 30 08:46	3°M58'02		morning set	8136 Oct 13 19:50	18° ≏ 47'30	
morning sec	0135 000 30 00.10	3 1100002		morning sev	8136 Oct 19 01:11	0°M	
superior conj	8135 Nov 06 15:47	19° M 14'57	1°39'26				
minimum elong	8135 Nov 06 16:49	19° M 20'18	1°39'32	superior conj	8136 Oct 20 19:56	3°M49'33	1°41'21
max. Earth dist.	8135 Nov 11 03:06	28°M20'14	1.35280 AU	minimum elong	8136 Oct 20 19:40	3°M48'10	1°41'26
	8135 Nov 11 23:17	0° ∡ ″		max. Earth dist.	8136 Oct 23 21:10	10°M17'09	1.33706 AU
evening rise	8135 Nov 15 06:09	6° ≯ 20'02		evening rise	8136 Oct 28 15:24	19° M 57'48	
desc. node	8135 Nov 23 16:37	21° ₹ '23'09			8136 Nov 02 22:09	0°⊀	
	8135 Nov 29 00:02	0°ರ		desc. node	8136 Nov 09 13:39	11° ∡ ³32′20	
evening max el	8135 Dec 20 15:08	28° る 06'19	26°33'27		8136 Nov 22 00:37	5°0	
	8135 Dec 22 16:40	0°≈		evening max el	8136 Dec 02 03:55	11° る 37'33	27°14'44
retrograde	8136 Jan 02 14:08	5° ≈ 22'18		retrograde	8136 Dec 15 14:40	18° る 58'07	
evening set	8136 Jan 09 00:14	2° ≈ 47'57		evening set	8136 Dec 22 10:46	16° පි 21'41	
	8136 Jan 11 21:32	30°Ŗる		min. Earth dist.	8136 Dec 26 07:42	12° る 43'53	0.64881 AU
min. Earth dist.	8136 Jan 13 02:49	28° පි 36'18	0.66309 AU	inferior conj	8136 Dec 28 14:24	10°る14'07	-1°23'41
inferior conj	8136 Jan 14 21:46	26° る 27'53	-0°19'41	minimum elong	8136 Dec 28 16:55	10° る 07'12	1°22'29
minimum elong	8136 Jan 14 22:18	26° පි 26'16	0°19'20	asc. node	8137 Jan 01 18:16	6° る 09'17	
asc. node	8136 Jan 15 21:14	25° る 18'21		morning rise	8137 Jan 04 00:30	4° ⋜ 44'39	
morning rise	8136 Jan 20 21:14	20° ප් 45'11		direct	8137 Jan 06 15:00	4° る 09'05	
direct	8136 Jan 23 20:12	19° る 56'15		morning max el	8137 Jan 13 01:24	7° る 32'23	17°58'12
morning max el	8136 Jan 30 09:12	23° る 27'25	18°25'45		8137 Jan 28 07:59	0° ≈	
	8136 Feb 04 18:29	0° ≈		morning set	8137 Jan 30 16:07	3° ≈ 53'19	
morning set	8136 Feb 19 09:56	22° ≈ 36'42		desc. node	8137 Feb 05 12:59	13° ≈ 35′01	
desc. node	8136 Feb 19 16:02	23° ≈ 00′56					
	8136 Feb 24 01:33	0° ∀		superior conj	8137 Feb 13 16:19	26° ≈ 43'34	-0°56'26
				minimum elong	8137 Feb 13 09:46	26° ≈ 17'30	0°55'28
superior conj	8136 Mar 06 05:13	17°) € 32'54			8137 Feb 15 17:49	0° ∀	
minimum elong	8136 Mar 05 19:36	16°) 55′13	1°36'34	max. Earth dist.	8137 Feb 17 16:01	3° ∺ 02'15	1.45206 AU
max. Earth dist.	8136 Mar 06 20:29	18°) 32'40	1.45515 AU	evening rise	8137 Mar 01 19:34	21° X 55'13	
	8136 Mar 14 04:05	$0^{\circ}\mathbf{\Upsilon}$			8137 Mar 07 01:58	$0^{\circ}\mathbf{\Upsilon}$	
evening rise	8136 Mar 22 02:15	12° Y 27'45		greatest brilliancy	8137 Mar 16 01:54	13° Y 33'03	-0.6m
greatest brilliancy	8136 Mar 31 21:51	27° Y 53'50	-0.8m	evening max el	8137 Mar 27 19:49	28° Y 57'09	19°51'39
	8136 Apr 02 06:33	9° 8			8137 Mar 28 21:43	9° 8	
asc. node	8136 Apr 12 20:10	14° 8 32'07		asc. node	8137 Mar 30 17:14	1° 8 29'47	
evening max el	8136 Apr 13 14:25	15° 8 19'54	19°00'06	retrograde	8137 Apr 04 08:08	3° 8 17'02	
retrograde	8136 Apr 20 10:04	19° 8 08'44		evening set	8137 Apr 08 01:57	1° 8 55'19	
evening set	8136 Apr 23 19:37	18° 8 01'44			8137 Apr 10 04:27	30° ₹ Υ	
inferior conj	8136 Apr 29 08:17	12° 8 16'32		inferior conj	8137 Apr 13 10:45	25° Y 55'49	3°16'41
minimum elong	8136 Apr 29 08:12	12° 8 16'51	3°23'48	minimum elong	8137 Apr 13 09:34	25° Y 59'48	3°16'30
min. Earth dist.	8136 Apr 30 23:12	10° 8 13'11	0.66100 AU	min. Earth dist.	8137 Apr 14 11:01	24° Y 34'26	0.67303 AU
morning rise	8136 May 04 20:18	5° 8 58'38		morning rise	8137 Apr 18 16:54	19° Y 38′25	
direct	8136 May 11 05:27	3° 8 12'14		direct	8137 Apr 24 14:49	17° Y ′00′03	
desc. node	8136 May 17 15:40	5° 8 25'07	2.020140	desc. node	8137 May 04 12:39	22°Υ11'51	25010152
morning max el	8136 May 24 03:59	10° 8 53'51	26°28'49	morning max el	8137 May 06 13:39	24° Y 09'58	25°10'52
	8136 Jun 08 07:45	0°II			8137 May 11 18:59	0° 8	
	8136 Jun 26 15:41	0°95			8137 Jun 01 17:44	0°II	
morning set	8136 Jun 29 03:26	4°936'51	1 24672 ATT	morning set	8137 Jun 11 15:25	16° Ⅱ 51'51	1 26561 ATT
max. Earth dist.	8136 Jul 03 04:59	12° © 26'32	1.34672 AU	max. Earth dist.	8137 Jun 15 06:44	23°Ⅲ30'45 0°€	1.36561 AU
	0126 I1 00 00.57	220611121	0017142		8137 Jun 18 16:55	0.50	
superior conj	8136 Jul 08 00:57	22°©11'31			0127 1 21 12 42	50625127	0040117
minimum elong	8136 Jul 08 01:57	22°©16'41	0°17'39	superior conj	8137 Jun 21 13:42	5°535'37	
asc. node	8136 Jul 09 19:21 8136 Jul 11 18:56	25° © 51'12 0° Ω		minimum elong asc. node	8137 Jun 21 16:41 8137 Jun 26 16:20	5° © 50'22 15° © 51'17	0 46 33
avaning rise		8° Ω 01'25			8137 Jun 26 16:20 8137 Jun 29 19:41	22°©13'26	
evening rise	8136 Jul 15 14:55			evening rise			
ovonina mas1	8136 Jul 27 09:59	0° m) 9° m)10′27	20°54'11	ovening me1	8137 Jul 03 17:40 8137 Jul 17 01:32	0° Ω 20° Ω 25'08	19°41'24
evening max el desc. node	8136 Aug 03 15:23 8136 Aug 13 14:47	9°110/27 14°110/49'05	20 34 11	evening max el retrograde	8137 Jul 17 01:32 8137 Jul 26 23:37	20°8725′08 25°Ω18'42	17 41 44
retrograde	8136 Aug 15 14:47 8136 Aug 15 06:24	14° m 55'52		evening set	8137 Jul 28 20:04	25° Ω 09'13	
•	-	-		desc. node	8137 Jul 28 20:04 8137 Jul 31 11:52	25° δ 09°13 24° Ω 25'03	
evening set inferior conj	8136 Aug 17 11:04 8136 Aug 26 16:57	14° mp 44'22 10° mp 47'25	30/6/50	inferior conj	8137 Jul 31 11:52 8137 Aug 06 16:36	24°δ (25'03' 21°Ω06'20	1052120
microi conj	0130 Aug 20 10.3/	10 IIJ4/23	-5 40 50	inicitor conj	313 / Aug 00 10.30	21 66 00 20	-1 33 40

minimum elong	8137 Aug 06 11:25	21° Ω 14'26	1°51'36	inferior conj	8138 Jul 18 10:19	1° Ω 58'39	-0°01'02
min. Earth dist.	8137 Aug 00 11:25 8137 Aug 08 22:06	19° Ω 42'58	0.55384 AU	minimum elong	8138 Jul 18 10:16	1° Ω 58'44	0°01'09
morning rise	8137 Aug 15 00:32	16° Ω 40'18	0.33304710	transit middle	8138 Jul 18 10:16	1° Ω 58'44	0°01'09
direct	8137 Aug 19 16:37	15° Ω 51'51		transit begin	8138 Jul 18 06:34	2° Ω 05'26	0 01 0)
morning max el	8137 Sep 02 14:24	22° Ω 47'19	24°42'47	transit end	8138 Jul 18 13:58	1°Ω52'02	
morning max ci	8137 Sep 02 14:24 8137 Sep 09 00:46	0° m)	24 4247	desc. node	8138 Jul 18 08:56	2°Ω01'09	
asc. node	8137 Sep 22 15:53	22° m) 04'50		dese. Hode	8138 Jul 21 04:03	30°R95	
use. Hode	8137 Sep 26 14:22	0° ت		min. Earth dist.	8138 Jul 21 13:55	29°542'47	0.56898 AU
morning set	8137 Sep 28 07:34	ა _ 3° ჲ 36'58		morning rise	8138 Jul 26 08:53	26°955'53	0.50070710
morning sec	0137 Sep 20 07.51	3 — 3030		direct	8138 Jul 31 21:36	25° © 41'55	
superior conj	8137 Oct 05 04:42	18° ≏ 36'03	1°37'00	direct	8138 Aug 11 13:43	0°Ω	
minimum elong	8137 Oct 05 04:42 8137 Oct 05 03:24	18° ≏ 28'54	1°36'57	morning max el	8138 Aug 15 04:46	3° Ω 08'31	26°16'38
max. Earth dist.	8137 Oct 05 03:24 8137 Oct 06 23:17	22° £ 27'59	1.32573 AU	morning max cr	8138 Sep 03 10:42	0° m)	20 1036
max. Earth dist.	8137 Oct 00 23:17 8137 Oct 10 11:59	0°M	1.32373 AU	asc. node	8138 Sep 09 12:52	11° Mp 38'34	
evening rise	8137 Oct 10 11:39 8137 Oct 12 11:04	4°M03'45		morning set	8138 Sep 12 18:19	11 11/38 34 18° Mp 20'52	
evening rise	8137 Oct 12 11:04 8137 Oct 26 15:22	4 11℃03 43 0° √ 1		morning set	8138 Sep 12 18.19 8138 Sep 18 02:36	0° ⊡	
desc. node		1° x ¹ 17'23			6136 Sep 16 02.30	0 ==	
	8137 Oct 27 10:43		27920107		0120 0 10 15.56	3° ≏ 26'44	1927/00
evening max el	8137 Nov 14 14:59	24° ⊀ ¹44'35	27°29'06	superior conj	8138 Sep 19 15:56		
. 1	8137 Nov 21 11:40	0°る		minimum elong	8138 Sep 19 13:56	3° Ω 15'42	
retrograde	8137 Nov 28 08:40	2°る02'30		max. Earth dist.	8138 Sep 20 07:13		1.31894 AU
	8137 Dec 04 18:08	30°₹ ⋌ ¹		evening rise	8138 Sep 26 14:08	18° ≏ 28'45	
evening set	8137 Dec 05 10:30	29° ⋌ 32'35			8138 Oct 02 07:44	0°M	
min. Earth dist.	8137 Dec 09 03:27	26° ₹ 25'10	0.63139 AU	desc. node	8138 Oct 14 07:48	20°M28'05	
inferior conj	8137 Dec 11 21:08	23° ∡ ¹43'25			8138 Oct 21 07:08	0° ∡ 7	
minimum elong	8137 Dec 12 01:56	23° ∡ ³31'34	2°30'19	evening max el	8138 Oct 27 21:57	7° ∡ 14'31 −	27°11'22
morning rise	8137 Dec 18 19:20	18° ∡ ¹29'59		retrograde	8138 Nov 10 18:57	14° ≯ 26′03	
asc. node	8137 Dec 19 15:19	18° ∡ 14'52		evening set	8138 Nov 17 19:49	12° ≯ 13'10	
direct	8137 Dec 21 03:41	18° ∡ '03'54		min. Earth dist.	8138 Nov 21 12:43	9° ≯ 28'38	0.61156 AU
morning max el	8137 Dec 27 18:43	21° ∡ 28′46	17°47'57	inferior conj	8138 Nov 24 14:48	6° ∡ 747'34	-3°41'38
	8138 Jan 03 07:01	0°ප		minimum elong	8138 Nov 24 21:33	6° ∡ ³32'51	3°39'20
morning set	8138 Jan 12 23:39	16° る 23'03		morning rise	8138 Dec 02 01:32	1° ҂ 753′25	
	8138 Jan 20 21:05	0° ≈		direct	8138 Dec 04 06:50	1° ∡ ³33'10	
desc. node	8138 Jan 23 09:57	4°≈16′10		asc. node	8138 Dec 06 12:21	1° ∡ 754′24	
				morning max el	8138 Dec 11 09:55	5° ∡ ¹08'03	17°56'06
superior conj	8138 Jan 25 00:43	6° ≈ 57'29	-0°11'47	morning set	8138 Dec 27 02:02	29° ∡ ¹46'15	
minimum elong	8138 Jan 24 23:30	6° ≈ 52'25	0°11'28		8138 Dec 27 05:03	5°0	
behind sun begin	8138 Jan 24 16:53	6° ≈ 24'58					
behind sun end	8138 Jan 25 06:07	7° ≈ 19'50		superior conj	8139 Jan 06 10:52	18° る 25'12	0°28'08
max. Earth dist.	8138 Jan 31 09:26	17° ≈ 19′00	1.44196 AU	minimum elong	8139 Jan 06 13:10	18° る 35'16	0°27'56
	8138 Feb 08 11:08	0°) €		desc. node	8139 Jan 10 06:57	25° る 00'56	
evening rise	8138 Feb 09 06:39	1° ¥ 15′17			8139 Jan 13 06:20	0° ≈	
						* -	
	8138 Feb 28 16:58	0 ° \mathbf{Y}		max. Earth dist.	8139 Jan 13 23:06		1.42599 AU
evening max el	8138 Feb 28 16:58 8138 Mar 10 19:47		20°56'58	max. Earth dist. evening rise			1.42599 AU
evening max el asc. node			20°56'58		8139 Jan 13 23:06	1° ≈ 09'16	1.42599 AU
•	8138 Mar 10 19:47	12° Y 35'52	20°56'58		8139 Jan 13 23:06 8139 Jan 20 02:58	1°≈09'16 11°≈05'47	
asc. node	8138 Mar 10 19:47 8138 Mar 17 14:19	12° Υ 35'52 17° Υ 19'39	20°56'58	evening rise	8139 Jan 13 23:06 8139 Jan 20 02:58 8139 Feb 01 13:05	1°≈09'16 11°≈05'47 0°¥	
asc. node retrograde	8138 Mar 10 19:47 8138 Mar 17 14:19 8138 Mar 19 06:36	12° Υ 35'52 17° Υ 19'39 17° Υ 34'05		evening rise	8139 Jan 13 23:06 8139 Jan 20 02:58 8139 Feb 01 13:05 8139 Feb 21 14:42	1°≈09'16 11°≈05'47 0° X 26° X 16'42	
asc. node retrograde evening set	8138 Mar 10 19:47 8138 Mar 17 14:19 8138 Mar 19 06:36 8138 Mar 23 09:52	12° Y 35'52 17° Y 19'39 17° Y 34'05 15° Y 57'17		evening rise evening max el	8139 Jan 13 23:06 8139 Jan 20 02:58 8139 Feb 01 13:05 8139 Feb 21 14:42 8139 Feb 25 22:29	1°≈09'16 11°≈05'47 0° H 26° H 16'42 0° Υ	
asc. node retrograde evening set inferior conj	8138 Mar 10 19:47 8138 Mar 17 14:19 8138 Mar 19 06:36 8138 Mar 23 09:52 8138 Mar 28 17:16	12°Y35'52 17°Y19'39 17°Y34'05 15°Y57'17 9°Y45'42	2°58'08	evening rise evening max el retrograde	8139 Jan 13 23:06 8139 Jan 20 02:58 8139 Feb 01 13:05 8139 Feb 21 14:42 8139 Feb 25 22:29 8139 Mar 03 03:42	1°≈09'16 11°≈05'47 0°¥ 26°¥16'42 0°Υ 1°Υ'56'04	
asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	8138 Mar 10 19:47 8138 Mar 17 14:19 8138 Mar 19 06:36 8138 Mar 23 09:52 8138 Mar 28 17:16 8138 Mar 28 15:20 8138 Mar 29 04:01	12°Y35'52 17°Y19'39 17°Y34'05 15°Y57'17 9°Y45'42 9°Y52'22	2°58'08 2°57'45	evening rise evening max el retrograde asc. node	8139 Jan 13 23:06 8139 Jan 20 02:58 8139 Feb 01 13:05 8139 Feb 21 14:42 8139 Feb 25 22:29 8139 Mar 03 03:42 8139 Mar 04 11:24	1°≈09'16 11°≈05'47 0°¥ 26°¥16'42 0°° 1°°\$56'04 1°°\$47'11	
asc. node retrograde evening set inferior conj minimum elong	8138 Mar 10 19:47 8138 Mar 17 14:19 8138 Mar 19 06:36 8138 Mar 23 09:52 8138 Mar 28 17:16 8138 Mar 28 15:20 8138 Mar 29 04:01 8138 Apr 02 20:35	12°Y35'52 17°Y19'39 17°Y34'05 15°Y57'17 9°Y45'42 9°Y52'22 9°Y08'30	2°58'08 2°57'45	evening rise evening max el retrograde asc. node evening set	8139 Jan 13 23:06 8139 Jan 20 02:58 8139 Feb 01 13:05 8139 Feb 21 14:42 8139 Feb 25 22:29 8139 Mar 03 03:42 8139 Mar 04 11:24 8139 Mar 07 17:45	1°≈09'16 11°≈05'47 0°¥ 26°¥16'42 0°° 1°°\$56'04 1°°\$47'11 0°\$904'01	22°12'09
asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8138 Mar 10 19:47 8138 Mar 17 14:19 8138 Mar 19 06:36 8138 Mar 23 09:52 8138 Mar 28 17:16 8138 Mar 28 15:20 8138 Mar 29 04:01 8138 Apr 02 20:35 8138 Apr 08 05:15	12°Y35'52 17°Y19'39 17°Y34'05 15°Y57'17 9°Y45'42 9°Y52'22 9°Y08'30 3°Y30'59	2°58'08 2°57'45 0.68066 AU	evening rise evening max el retrograde asc. node evening set inferior conj	8139 Jan 13 23:06 8139 Jan 20 02:58 8139 Feb 01 13:05 8139 Feb 21 14:42 8139 Feb 25 22:29 8139 Mar 03 03:42 8139 Mar 04 11:24 8139 Mar 07 17:45 8139 Mar 07 19:40	1°≈09'16 11°≈05'47 0° € 26° € 16'42 0° ♀ 1° ♀ 56'04 1° ♀ 47'11 0° ♀ 04'01 30° € €	22°12'09 2°29'52
asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8138 Mar 10 19:47 8138 Mar 17 14:19 8138 Mar 19 06:36 8138 Mar 23 09:52 8138 Mar 28 17:16 8138 Mar 28 15:20 8138 Mar 29 04:01 8138 Apr 02 20:35 8138 Apr 08 05:15 8138 Apr 18 22:41	12°Y35'52 17°Y19'39 17°Y34'05 15°Y57'17 9°Y45'42 9°Y52'22 9°Y08'30 3°Y30'59 1°Y08'39 7°Y32'48	2°58'08 2°57'45 0.68066 AU	evening rise evening max el retrograde asc. node evening set	8139 Jan 13 23:06 8139 Jan 20 02:58 8139 Feb 01 13:05 8139 Feb 21 14:42 8139 Feb 25 22:29 8139 Mar 03 03:42 8139 Mar 04 11:24 8139 Mar 07 17:45 8139 Mar 07 19:40 8139 Mar 13 01:42	1°≈09'16 11°≈05'47 0°¥ 26°¥16'42 0°Y 1°Y56'04 1°Y47'11 0°Y04'01 30°R¥ 23°¥43'07	22°12'09 2°29'52
asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	8138 Mar 10 19:47 8138 Mar 17 14:19 8138 Mar 19 06:36 8138 Mar 23 09:52 8138 Mar 28 17:16 8138 Mar 28 15:20 8138 Mar 29 04:01 8138 Apr 02 20:35 8138 Apr 08 05:15 8138 Apr 18 22:41 8138 Apr 21 09:38	12°Y35'52 17°Y19'39 17°Y34'05 15°Y57'17 9°Y45'42 9°Y52'22 9°Y08'30 3°Y30'59 1°Y08'39 7°Y32'48 10°Y10'06	2°58'08 2°57'45 0.68066 AU	evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	8139 Jan 13 23:06 8139 Jan 20 02:58 8139 Feb 01 13:05 8139 Feb 21 14:42 8139 Feb 25 22:29 8139 Mar 03 03:42 8139 Mar 04 11:24 8139 Mar 07 17:45 8139 Mar 07 19:40 8139 Mar 13 01:42 8139 Mar 12 23:27 8139 Mar 13 00:00	1°≈09'16 11°≈05'47 0° ₩ 26° ₩ 16'42 0° Ψ 1° Ψ 56'04 1° Ψ 47'11 0° Ψ 04'01 30° R ₩ 23° ₩ 43'07 23° ₩ 50'58 23° ₩ 49'03	22°12'09 2°29'52 2°29'17
asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	8138 Mar 10 19:47 8138 Mar 17 14:19 8138 Mar 19 06:36 8138 Mar 23 09:52 8138 Mar 28 17:16 8138 Mar 28 15:20 8138 Mar 29 04:01 8138 Apr 02 20:35 8138 Apr 08 05:15 8138 Apr 18 22:41 8138 Apr 21 09:38 8138 May 06 10:59	12°Y35'52 17°Y19'39 17°Y34'05 15°Y57'17 9°Y45'42 9°Y52'22 9°Y08'30 3°Y30'59 1°Y08'39 7°Y32'48 10°Y10'06 0°8	2°58'08 2°57'45 0.68066 AU	evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise	8139 Jan 13 23:06 8139 Jan 20 02:58 8139 Feb 01 13:05 8139 Feb 21 14:42 8139 Feb 25 22:29 8139 Mar 03 03:42 8139 Mar 04 11:24 8139 Mar 07 17:45 8139 Mar 07 19:40 8139 Mar 13 01:42 8139 Mar 12 23:27 8139 Mar 13 00:00 8139 Mar 18 04:59	1°≈09'16 11°≈05'47 0° ₩ 26° ₩ 16'42 0° Ψ 1° Ψ 56'04 1° Ψ 47'11 0° Ψ 04'01 30° R ₩ 23° ₩ 43'07 23° ₩ 50'58 23° ₩ 49'03 17° ₩ 32'38	22°12'09 2°29'52 2°29'17
asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	8138 Mar 10 19:47 8138 Mar 17 14:19 8138 Mar 19 06:36 8138 Mar 23 09:52 8138 Mar 28 17:16 8138 Mar 28 15:20 8138 Mar 29 04:01 8138 Apr 02 20:35 8138 Apr 08 05:15 8138 Apr 18 22:41 8138 Apr 21 09:38 8138 May 06 10:59 8138 May 24 05:55	12°Y35'52 17°Y19'39 17°Y34'05 15°Y57'17 9°Y45'42 9°Y52'22 9°Y08'30 3°Y30'59 1°Y08'39 7°Y32'48 10°Y10'06 0°8 28°8'03'55	2°58'08 2°57'45 0.68066 AU	evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	8139 Jan 13 23:06 8139 Jan 20 02:58 8139 Feb 01 13:05 8139 Feb 21 14:42 8139 Feb 25 22:29 8139 Mar 03 03:42 8139 Mar 04 11:24 8139 Mar 07 17:45 8139 Mar 07 19:40 8139 Mar 13 01:42 8139 Mar 12 23:27 8139 Mar 13 00:00 8139 Mar 18 04:59 8139 Mar 22 23:38	1°≈09'16 11°≈05'47 0° ₩ 26° ₩ 16'42 0° Ψ 1° Ψ 56'04 1° Ψ 47'11 0° Ψ 04'01 30° ℝ ₩ 23° ₩ 43'07 23° ₩ 50'58 23° ₩ 49'03 17° ₩ 32'38 15° ₩ 31'11	22°12'09 2°29'52 2°29'17
asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	8138 Mar 10 19:47 8138 Mar 17 14:19 8138 Mar 19 06:36 8138 Mar 23 09:52 8138 Mar 28 17:16 8138 Mar 28 15:20 8138 Mar 29 04:01 8138 Apr 02 20:35 8138 Apr 08 05:15 8138 Apr 18 22:41 8138 Apr 21 09:38 8138 May 06 10:59 8138 May 24 05:55 8138 May 25 09:03	12°Y35'52 17°Y19'39 17°Y34'05 15°Y57'17 9°Y45'42 9°Y52'22 9°Y08'30 3°Y30'59 1°Y08'39 7°Y32'48 10°Y10'06 0°8 28°8'03'55 0°II	2°58'08 2°57'45 0.68066 AU	evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise	8139 Jan 13 23:06 8139 Jan 20 02:58 8139 Feb 01 13:05 8139 Feb 21 14:42 8139 Feb 25 22:29 8139 Mar 03 03:42 8139 Mar 04 11:24 8139 Mar 07 17:45 8139 Mar 07 19:40 8139 Mar 13 01:42 8139 Mar 12 23:27 8139 Mar 13 00:00 8139 Mar 18 04:59	1°≈09'16 11°≈05'47 0° ₩ 26° ₩ 16'42 0° Ψ 1° Ψ 56'04 1° Ψ 47'11 0° Ψ 04'01 30° R ₩ 23° ₩ 43'07 23° ₩ 50'58 23° ₩ 49'03 17° ₩ 32'38	22°12'09 2°29'52 2°29'17 0.68394 AU
asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set	8138 Mar 10 19:47 8138 Mar 17 14:19 8138 Mar 19 06:36 8138 Mar 23 09:52 8138 Mar 28 17:16 8138 Mar 28 15:20 8138 Mar 29 04:01 8138 Apr 02 20:35 8138 Apr 08 05:15 8138 Apr 18 22:41 8138 Apr 21 09:38 8138 May 06 10:59 8138 May 24 05:55	12°Y35'52 17°Y19'39 17°Y34'05 15°Y57'17 9°Y45'42 9°Y52'22 9°Y08'30 3°Y30'59 1°Y08'39 7°Y32'48 10°Y10'06 0°B 28°B03'55 0°II	2°58'08 2°57'45 0.68066 AU 23°42'31	evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	8139 Jan 13 23:06 8139 Jan 20 02:58 8139 Feb 01 13:05 8139 Feb 21 14:42 8139 Feb 25 22:29 8139 Mar 03 03:42 8139 Mar 04 11:24 8139 Mar 07 17:45 8139 Mar 07 19:40 8139 Mar 13 01:42 8139 Mar 12 23:27 8139 Mar 13 00:00 8139 Mar 18 04:59 8139 Mar 22 23:38 8139 Apr 01 09:58 8139 Apr 08 06:36	1°≈09'16 11°≈05'47 0° ₩ 26° ₩ 16'42 0° Υ 1° Υ 56'04 1° Υ 47'11 0° Υ 04'01 30° ₹ 23° ₩ 43'07 23° ₩ 50'58 23° ₩ 49'03 17° ₩ 32'38 15° ₩ 31'11 21° ₩ 03'18 29° ₩ 00'10	22°12'09 2°29'52 2°29'17 0.68394 AU
asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	8138 Mar 10 19:47 8138 Mar 17 14:19 8138 Mar 19 06:36 8138 Mar 23 09:52 8138 Mar 28 17:16 8138 Mar 28 15:20 8138 Mar 29 04:01 8138 Apr 02 20:35 8138 Apr 08 05:15 8138 Apr 18 22:41 8138 Apr 21 09:38 8138 May 06 10:59 8138 May 24 05:55 8138 May 25 09:03 8138 May 28 02:37	12°Y35'52 17°Y19'39 17°Y34'05 15°Y57'17 9°Y45'42 9°Y52'22 9°Y08'30 3°Y30'59 1°Y08'39 7°Y32'48 10°Y10'06 0°8 28°803'55 0°II 4°II45'21	2°58'08 2°57'45 0.68066 AU 23°42'31	evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	8139 Jan 13 23:06 8139 Jan 20 02:58 8139 Feb 01 13:05 8139 Feb 21 14:42 8139 Feb 25 22:29 8139 Mar 03 03:42 8139 Mar 04 11:24 8139 Mar 07 17:45 8139 Mar 07 19:40 8139 Mar 13 01:42 8139 Mar 12 23:27 8139 Mar 13 00:00 8139 Mar 18 04:59 8139 Mar 22 23:38 8139 Apr 01 09:58 8139 Apr 08 06:36 8139 Apr 09 01:12	1°≈09'16 11°≈05'47 0°	22°12'09 2°29'52 2°29'17 0.68394 AU
asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	8138 Mar 10 19:47 8138 Mar 17 14:19 8138 Mar 19 06:36 8138 Mar 23 09:52 8138 Mar 28 17:16 8138 Mar 28 15:20 8138 Mar 29 04:01 8138 Apr 02 20:35 8138 Apr 08 05:15 8138 Apr 18 22:41 8138 Apr 21 09:38 8138 May 24 05:55 8138 May 24 05:55 8138 May 25 09:03 8138 May 28 02:37	12°Y35'52 17°Y19'39 17°Y34'05 15°Y57'17 9°Y45'42 9°Y52'22 9°Y08'30 3°Y30'59 1°Y08'39 7°Y32'48 10°Y10'06 0°8 28°803'55 0°II 4°II45'21	2°58'08 2°57'45 0.68066 AU 23°42'31 1.38749 AU -1°20'34	evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	8139 Jan 13 23:06 8139 Jan 20 02:58 8139 Feb 01 13:05 8139 Feb 21 14:42 8139 Feb 25 22:29 8139 Mar 03 03:42 8139 Mar 04 11:24 8139 Mar 07 17:45 8139 Mar 07 19:40 8139 Mar 13 01:42 8139 Mar 12 23:27 8139 Mar 13 00:00 8139 Mar 18 04:59 8139 Mar 22 23:38 8139 Apr 01 09:58 8139 Apr 08 06:36 8139 Apr 09 01:12 8139 Apr 29 17:05	1°≈09'16 11°≈05'47 0°	22°12'09 2°29'52 2°29'17 0.68394 AU
asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	8138 Mar 10 19:47 8138 Mar 17 14:19 8138 Mar 19 06:36 8138 Mar 23 09:52 8138 Mar 28 17:16 8138 Mar 28 15:20 8138 Mar 29 04:01 8138 Apr 02 20:35 8138 Apr 08 05:15 8138 Apr 18 22:41 8138 Apr 21 09:38 8138 May 26 10:59 8138 May 25 09:03 8138 May 28 02:37 8138 Jun 04 13:20 8138 Jun 04 18:15	12°Y35'52 17°Y19'39 17°Y34'05 15°Y57'17 9°Y45'42 9°Y52'22 9°Y08'30 3°Y30'59 1°Y08'39 7°Y32'48 10°Y10'06 0°8 28°803'55 0°II 4°II45'21 18°II19'26 18°II42'33	2°58'08 2°57'45 0.68066 AU 23°42'31 1.38749 AU -1°20'34	evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	8139 Jan 13 23:06 8139 Jan 20 02:58 8139 Feb 01 13:05 8139 Feb 21 14:42 8139 Feb 25 22:29 8139 Mar 03 03:42 8139 Mar 04 11:24 8139 Mar 07 17:45 8139 Mar 07 19:40 8139 Mar 13 01:42 8139 Mar 12 23:27 8139 Mar 13 00:00 8139 Mar 13 00:00 8139 Mar 18 04:59 8139 Apr 01 09:58 8139 Apr 01 09:58 8139 Apr 09 01:12 8139 Apr 29 17:05 8139 May 04 17:55	1°≈09'16 11°≈05'47 0°	22°12'09 2°29'52 2°29'17 0.68394 AU 22°13'40
asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	8138 Mar 10 19:47 8138 Mar 17 14:19 8138 Mar 19 06:36 8138 Mar 23 09:52 8138 Mar 28 17:16 8138 Mar 28 15:20 8138 Mar 29 04:01 8138 Apr 02 20:35 8138 Apr 08 05:15 8138 Apr 18 22:41 8138 Apr 21 09:38 8138 May 24 05:55 8138 May 25 09:03 8138 May 25 09:03 8138 May 28 02:37 8138 Jun 04 13:20 8138 Jun 04 18:15 8138 Jun 10 15:20	12°Y35'52 17°Y19'39 17°Y34'05 15°Y57'17 9°Y45'42 9°Y52'22 9°Y08'30 3°Y30'59 1°Y08'39 7°Y32'48 10°Y10'06 0°8 28°803'55 0°II 4°II45'21 18°II19'26 18°II42'33 0°\$	2°58'08 2°57'45 0.68066 AU 23°42'31 1.38749 AU -1°20'34	evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	8139 Jan 13 23:06 8139 Jan 20 02:58 8139 Feb 01 13:05 8139 Feb 21 14:42 8139 Feb 25 22:29 8139 Mar 03 03:42 8139 Mar 04 11:24 8139 Mar 07 17:45 8139 Mar 07 19:40 8139 Mar 13 01:42 8139 Mar 12 23:27 8139 Mar 13 00:00 8139 Mar 18 04:59 8139 Mar 22 23:38 8139 Apr 01 09:58 8139 Apr 08 06:36 8139 Apr 09 01:12 8139 Apr 29 17:05	1°≈09'16 11°≈05'47 0°	22°12'09 2°29'52 2°29'17 0.68394 AU
asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	8138 Mar 10 19:47 8138 Mar 17 14:19 8138 Mar 19 06:36 8138 Mar 23 09:52 8138 Mar 28 17:16 8138 Mar 28 15:20 8138 Mar 29 04:01 8138 Apr 02 20:35 8138 Apr 08 05:15 8138 Apr 18 22:41 8138 Apr 21 09:38 8138 May 26 10:59 8138 May 24 05:55 8138 May 25 09:03 8138 May 28 02:37 8138 Jun 04 13:20 8138 Jun 04 18:15 8138 Jun 10 15:20 8138 Jun 13 17:16	12°Y35'52 17°Y19'39 17°Y34'05 15°Y57'17 9°Y45'42 9°Y52'22 9°Y08'30 3°Y30'59 1°Y08'39 7°Y32'48 10°Y10'06 0°8 28°803'55 0°II 4°II45'21 18°II19'26 18°II42'33 0°\$66*\$00'48	2°58'08 2°57'45 0.68066 AU 23°42'31 1.38749 AU -1°20'34	evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	8139 Jan 13 23:06 8139 Jan 20 02:58 8139 Feb 01 13:05 8139 Feb 21 14:42 8139 Feb 25 22:29 8139 Mar 03 03:42 8139 Mar 04 11:24 8139 Mar 07 17:45 8139 Mar 07 19:40 8139 Mar 13 01:42 8139 Mar 12 23:27 8139 Mar 13 00:00 8139 Mar 18 04:59 8139 Mar 22 23:38 8139 Apr 01 09:58 8139 Apr 09 01:12 8139 Apr 09 01:12 8139 May 04 17:55 8139 May 10 00:42	1°≈09'16 11°≈05'47 0° ₩ 26° ₩ 16'42 0° Ψ 1° Ψ 56'04 1° Ψ 47'11 0° Ψ 04'01 30° ℝ ₩ 23° ₩ 43'07 23° ₩ 50'58 23° ₩ 49'03 17° ₩ 32'38 15° ₩ 31'11 21° ₩ 03'18 29° ₩ 00'10 0° Ψ 0° ₩ 8° ₩ 01'10 16° ₩ 44'22	22°12'09 2°29'52 2°29'17 0.68394 AU 22°13'40
asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	8138 Mar 10 19:47 8138 Mar 17 14:19 8138 Mar 19 06:36 8138 Mar 23 09:52 8138 Mar 28 17:16 8138 Mar 28 15:20 8138 Mar 29 04:01 8138 Apr 02 20:35 8138 Apr 08 05:15 8138 Apr 18 22:41 8138 Apr 21 09:38 8138 May 06 10:59 8138 May 24 05:55 8138 May 25 09:03 8138 May 28 02:37 8138 Jun 04 18:15 8138 Jun 04 18:15 8138 Jun 10 15:20 8138 Jun 13 17:16 8138 Jun 13 17:16	12°Y35'52 17°Y19'39 17°Y34'05 15°Y57'17 9°Y45'42 9°Y52'22 9°Y08'30 3°Y30'59 1°Y08'39 7°Y32'48 10°Y10'06 0°8 28°803'55 0°II 4°II45'21 18°II19'26 18°II42'33 0°G 6°G00'48 5°G41'46	2°58'08 2°57'45 0.68066 AU 23°42'31 1.38749 AU -1°20'34	evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	8139 Jan 13 23:06 8139 Jan 20 02:58 8139 Feb 01 13:05 8139 Feb 21 14:42 8139 Feb 25 22:29 8139 Mar 03 03:42 8139 Mar 04 11:24 8139 Mar 07 17:45 8139 Mar 07 19:40 8139 Mar 13 01:42 8139 Mar 12 23:27 8139 Mar 13 00:00 8139 Mar 18 04:59 8139 Mar 22 23:38 8139 Apr 01 09:58 8139 Apr 09 01:12 8139 Apr 09 01:12 8139 May 04 17:55 8139 May 10 00:42 8139 May 17 19:31	1°≈09'16 11°≈05'47 0° ₩ 26° ₩ 16'42 0° Ψ 1° Ψ 56'04 1° Ψ 47'11 0° Ψ 04'01 30° ℝ ₩ 23° ₩ 43'07 23° ₩ 50'58 23° ₩ 49'03 17° ₩ 32'38 15° ₩ 31'11 21° ₩ 03'18 29° ₩ 00'10 0° Ψ 0° ₩ 8° ₩ 01'10 16° ₩ 44'22	22°12'09 2°29'52 2°29'17 0.68394 AU 22°13'40 1.40987 AU -1°48'09
asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	8138 Mar 10 19:47 8138 Mar 17 14:19 8138 Mar 19 06:36 8138 Mar 23 09:52 8138 Mar 28 17:16 8138 Mar 28 15:20 8138 Mar 29 04:01 8138 Apr 02 20:35 8138 Apr 08 05:15 8138 Apr 18 22:41 8138 Apr 21 09:38 8138 May 06 10:59 8138 May 24 05:55 8138 May 25 09:03 8138 May 25 09:03 8138 May 28 02:37 8138 Jun 04 13:20 8138 Jun 04 18:15 8138 Jun 10 15:20 8138 Jun 13 17:16 8138 Jun 13 13:21 8138 Jun 27 19:44	12°Y35'52 17°Y19'39 17°Y34'05 15°Y57'17 9°Y45'42 9°Y52'22 9°Y08'30 3°Y30'59 1°Y08'39 7°Y32'48 10°Y10'06 0°B 28°B03'55 0°II 4°II45'21 18°II19'26 18°II42'33 0°G 6°G00'48 5°G41'46 0°R	2°58'08 2°57'45 0.68066 AU 23°42'31 1.38749 AU -1°20'34 1°20'00	evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	8139 Jan 13 23:06 8139 Jan 20 02:58 8139 Feb 01 13:05 8139 Feb 21 14:42 8139 Feb 25 22:29 8139 Mar 03 03:42 8139 Mar 04 11:24 8139 Mar 07 17:45 8139 Mar 07 19:40 8139 Mar 13 01:42 8139 Mar 12 23:27 8139 Mar 12 23:27 8139 Mar 18 04:59 8139 Mar 18 04:59 8139 Mar 22 23:38 8139 Apr 01 09:58 8139 Apr 09 01:12 8139 Apr 09 01:12 8139 May 04 17:55 8139 May 10 00:42 8139 May 17 19:31 8139 May 18 01:18	1°≈09'16 11°≈05'47 0° ₩ 26° ₩ 16'42 0° Ψ 1° Ψ 56'04 1° Ψ 47'11 0° Ψ 04'01 30° ℝ ₩ 23° ₩ 43'07 23° ₩ 50'58 23° ₩ 49'03 17° ₩ 32'38 15° ₩ 31'11 21° ₩ 03'18 29° ₩ 00'10 0° Ψ 0° ₩ 8° ₩ 01'10 16° ₩ 44'22 0° ₩ 13'11 0° ₩ 38'59	22°12'09 2°29'52 2°29'17 0.68394 AU 22°13'40 1.40987 AU -1°48'09
asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el	8138 Mar 10 19:47 8138 Mar 17 14:19 8138 Mar 19 06:36 8138 Mar 23 09:52 8138 Mar 28 17:16 8138 Mar 28 15:20 8138 Mar 29 04:01 8138 Apr 02 20:35 8138 Apr 08 05:15 8138 Apr 18 22:41 8138 Apr 21 09:38 8138 May 06 10:59 8138 May 24 05:55 8138 May 25 09:03 8138 May 28 02:37 8138 Jun 04 13:20 8138 Jun 04 18:15 8138 Jun 10 15:20 8138 Jun 13 17:16 8138 Jun 13 13:21 8138 Jun 27 19:44 8138 Jun 29 23:52	12°Y35'52 17°Y19'39 17°Y34'05 15°Y57'17 9°Y45'42 9°Y52'22 9°Y08'30 3°Y30'59 1°Y08'39 7°Y32'48 10°Y10'06 0°8 28°803'55 0°II 4°II45'21 18°II19'26 18°II42'33 0°\$6 6°\$00'48 5°\$41'46 0°\$0 2°\$\O23'35	2°58'08 2°57'45 0.68066 AU 23°42'31 1.38749 AU -1°20'34 1°20'00	evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	8139 Jan 13 23:06 8139 Jan 20 02:58 8139 Feb 01 13:05 8139 Feb 21 14:42 8139 Feb 25 22:29 8139 Mar 03 03:42 8139 Mar 04 11:24 8139 Mar 07 17:45 8139 Mar 07 19:40 8139 Mar 13 01:42 8139 Mar 12 23:27 8139 Mar 13 00:00 8139 Mar 18 04:59 8139 Mar 22 23:38 8139 Apr 01 09:58 8139 Apr 09 01:12 8139 Apr 09 01:12 8139 Apr 29 17:05 8139 May 04 17:55 8139 May 10 00:42 8139 May 17 19:31 8139 May 17 19:31 8139 May 17 16:33	1°≈09'16 11°≈05'47 0° ₩ 26° ₩ 16'42 0° Ψ 1° Ψ 56'04 1° Ψ 47'11 0° Ψ 04'01 30° ₹ 23° ₩ 43'07 23° ₩ 50'58 23° ₩ 49'03 17° ₩ 32'38 15° ₩ 31'11 21° ₩ 03'18 29° ₩ 00'10 0° Ψ 0° ₩ 8° ₩ 01'10 16° ₩ 44'22 0° ₩ 13'11 0° ₩ 38'59 0° ₩	22°12'09 2°29'52 2°29'17 0.68394 AU 22°13'40 1.40987 AU -1°48'09
asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	8138 Mar 10 19:47 8138 Mar 17 14:19 8138 Mar 19 06:36 8138 Mar 23 09:52 8138 Mar 28 17:16 8138 Mar 28 15:20 8138 Mar 29 04:01 8138 Apr 02 20:35 8138 Apr 08 05:15 8138 Apr 18 22:41 8138 Apr 21 09:38 8138 May 06 10:59 8138 May 24 05:55 8138 May 25 09:03 8138 May 25 09:03 8138 May 28 02:37 8138 Jun 04 13:20 8138 Jun 04 18:15 8138 Jun 10 15:20 8138 Jun 13 17:16 8138 Jun 13 13:21 8138 Jun 27 19:44	12°Y35'52 17°Y19'39 17°Y34'05 15°Y57'17 9°Y45'42 9°Y52'22 9°Y08'30 3°Y30'59 1°Y08'39 7°Y32'48 10°Y10'06 0°B 28°B03'55 0°II 4°II45'21 18°II19'26 18°II42'33 0°G 6°G00'48 5°G41'46 0°R	2°58'08 2°57'45 0.68066 AU 23°42'31 1.38749 AU -1°20'34 1°20'00	evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	8139 Jan 13 23:06 8139 Jan 20 02:58 8139 Feb 01 13:05 8139 Feb 21 14:42 8139 Feb 25 22:29 8139 Mar 03 03:42 8139 Mar 04 11:24 8139 Mar 07 17:45 8139 Mar 07 19:40 8139 Mar 13 01:42 8139 Mar 12 23:27 8139 Mar 12 23:27 8139 Mar 18 04:59 8139 Mar 18 04:59 8139 Mar 22 23:38 8139 Apr 01 09:58 8139 Apr 09 01:12 8139 Apr 09 01:12 8139 May 04 17:55 8139 May 10 00:42 8139 May 17 19:31 8139 May 18 01:18	1°≈09'16 11°≈05'47 0° ₩ 26° ₩ 16'42 0° Ψ 1° Ψ 56'04 1° Ψ 47'11 0° Ψ 04'01 30° ℝ ₩ 23° ₩ 43'07 23° ₩ 50'58 23° ₩ 49'03 17° ₩ 32'38 15° ₩ 31'11 21° ₩ 03'18 29° ₩ 00'10 0° Ψ 0° ₩ 8° ₩ 01'10 16° ₩ 44'22 0° ₩ 13'11 0° ₩ 38'59	22°12'09 2°29'52 2°29'17 0.68394 AU 22°13'40 1.40987 AU -1°48'09

	0120 I 02 00-21	0° ©			0140 I 02 00:44	10622110	
	8139 Jun 03 00:31		10017107	retrograde	8140 Jun 02 08:44	1°523'18	
evening max el	8139 Jun 13 06:53	14°958'44	18°17'26	evening set	8140 Jun 04 23:23	0°951'16	
retrograde	8139 Jun 20 12:10	18°936'04			8140 Jun 06 15:10	30°RⅡ	
evening set	8139 Jun 22 19:23	18° © 14'48		inferior conj	8140 Jun 11 13:05	25° Ⅱ 50'53	2°29'49
inferior conj	8139 Jun 30 01:48	13° © 34'32		minimum elong	8140 Jun 11 16:04	25° Ⅱ 43'33	2°28'55
minimum elong	8139 Jun 30 04:28	13° © 28'51	1°27'29	min. Earth dist.	8140 Jun 14 16:37	22° Ⅱ 47'01	0.61190 AU
min. Earth dist.	8139 Jul 03 11:20	10°9543'03	0.58949 AU	morning rise	8140 Jun 18 06:27	19° ∏ 52'11	
desc. node	8139 Jul 05 06:00	9° © 22'04		desc. node	8140 Jun 21 03:02	18° Ⅱ 20'58	
morning rise	8139 Jul 07 10:24	7° © 58'53		direct	8140 Jun 24 22:18	17° Ⅱ 37'14	
direct	8139 Jul 13 16:10	6° ॐ 13'47		morning max el	8140 Jul 09 04:32	25° Ⅲ 36'42	27°54'00
morning max el	8139 Jul 28 01:13	14° © 00'46	27°23'28		8140 Jul 13 05:49	0°9€	
	8139 Aug 09 20:09	$0^{\circ}\Omega$			8140 Aug 02 07:58	$0^{\circ}\Omega$	
	8139 Aug 26 16:53	O° Mp		morning set	8140 Aug 11 06:01	17° Ω 12'43	
asc. node	8139 Aug 27 09:52	1° m 27'56		asc. node	8140 Aug 13 06:51	21° Ω 27'38	
morning set	8139 Aug 28 02:25	2° m 54'33		max. Earth dist.	8140 Aug 17 02:32	29° Ω 41′09	1.31889 AU
max. Earth dist.	8139 Sep 03 17:36	17° m 19'31	1.31665 AU		8140 Aug 17 05:59	0° m/	
	•				C	•	
superior conj	8139 Sep 04 03:45	18° m) 15'47	1°11'51	superior conj	8140 Aug 18 14:21	2° m 57'43	0°51'56
minimum elong	8139 Sep 04 01:29	18° m 03'17		minimum elong	8140 Aug 18 12:20	2° m 46'33	0°51'29
	8139 Sep 09 11:35	0∘ ಹ		evening rise	8140 Aug 25 08:57	17° m) 48'04	
evening rise	8139 Sep 10 22:08	ა <u>ი</u> 05'39		evening rise	8140 Aug 31 07:42	0∘ ⊽	
evening rise	8139 Sep 25 05:24	0° ™		desc. node	8140 Sep 17 01:58	ა _ 26° ჲ 06'46	
daga mada	•	8°M50'49			1		24950100
desc. node	8139 Oct 01 04:53		26010142	evening max el	8140 Sep 20 14:00	29° ₽ 48'00	24°59'00
evening max el	8139 Oct 09 22:02	18°M56'17	26°19'43		8140 Sep 20 19:03	0°M	
retrograde	8139 Oct 23 20:05	26°M01'32		retrograde	8140 Oct 04 10:37	6° M 47'18	
evening set	8139 Oct 30 10:09	24°M15'59		evening set	8140 Oct 10 00:58	5° ™ 36′27	
min. Earth dist.	8139 Nov 03 11:16	21°M41'29	0.59071 AU	min. Earth dist.	8140 Oct 15 01:20	2°M53'42	
inferior conj	8139 Nov 06 15:49	19°M16'45	-4°44'01	inferior conj	8140 Oct 17 21:14	1°M02'04	-5°26'16
minimum elong	8139 Nov 06 22:53	19°M03'21	4°42'21	minimum elong	8140 Oct 18 01:03	0° M 55'45	5°25'51
morning rise	8139 Nov 14 13:54	14° M 44'53			8140 Oct 19 11:26	30° ŖΩ	
direct	8139 Nov 16 20:07	14°M27'16		morning rise	8140 Oct 26 03:26	26° ≏ 53'10	
asc. node	8139 Nov 23 09:25	17°M05'15		direct	8140 Oct 28 15:16	26° ≏ 35'24	
morning max el	8139 Nov 24 19:30	18° M ⋅20'50	18°24'04		8140 Nov 05 18:19	0° M .	
	8139 Dec 03 06:15	0° ∡ ¹		morning max el	8140 Nov 06 19:54	0° IL 57'26	19°13'33
morning set	8139 Dec 10 17:35	13° ∡ ¹45'48		asc. node	8140 Nov 09 06:26	3°M34'24	
Č	8139 Dec 19 07:12	8°0		morning set	8140 Nov 23 18:08	28°M09'53	
		-		. 8	8140 Nov 24 16:14	0° ∡ ⊓	
superior conj	8139 Dec 19 19:45	0° る 57'50	0°59'30				
minimum elong	8139 Dec 19 23:11	1°る13'37		superior conj	8140 Dec 01 22:19	14° ∡ °21'20	1°21'38
max. Earth dist.	8139 Dec 27 08:14	14° る 21'04	1.40599 AU	minimum elong	8140 Dec 02 01:18	14° ∡ ³35'46	1°21'29
desc. node	8139 Dec 28 03:56	15° る 45'26	1.10377710	max. Earth dist.	8140 Dec 08 14:03	26° ×7' 50'44	1.38436 AU
evening rise	8139 Dec 28 03:30 8139 Dec 31 18:32	13 ර 43 20 21° රි 48'51		max. Lartii dist.	8140 Dec 10 08:14	20×30+4	1.50450 AC
evening rise		21 0 48 31 0° ≈		ovanina rias	8140 Dec 10 08:14 8140 Dec 12 08:13	3° る 30'58	
	8140 Jan 05 20:11			evening rise			
	8140 Jan 26 15:10	0°) (50140	2202210.4	desc. node	8140 Dec 14 00:57	6° る 26'27	
evening max el	8140 Feb 04 05:50	9°) 59'48	23°32'04		8140 Dec 28 23:15	0° ≈	
retrograde	8140 Feb 14 22:01	16° ∺ 18′02		evening max el	8141 Jan 16 19:03	23° ≈ 45'44	24°50'21
asc. node	8140 Feb 19 08:31	14°) 41′55			8141 Jan 25 10:45	0° ∀	
evening set	8140 Feb 20 00:00	14°) 11'11		retrograde	8141 Jan 28 12:30	0° ∺ 35'31	
inferior conj	8140 Feb 25 10:09	7°) (44′22	1°52'45		8141 Jan 31 09:25	30° R ≈	
minimum elong	8140 Feb 25 08:01	7° ₩ 51'41	1°52'05	evening set	8141 Feb 03 03:06	28° ≈ 15′23	
min. Earth dist.	8140 Feb 24 20:40	8°) €30'33	0.68307 AU	asc. node	8141 Feb 05 05:36	26° ≈ 09'35	
morning rise	8140 Mar 01 16:00	1° ∺ 39'26		min. Earth dist.	8141 Feb 07 15:54	23° ≈ 09'07	0.67827 AU
direct	8140 Mar 05 20:51	0°) €00'36		inferior conj	8141 Feb 08 16:47	21° ≈ 46′53	1°07'23
morning max el	8140 Mar 14 03:07	4°){ 44'39	20°52'05	minimum elong	8141 Feb 08 15:16	21° ≈ 51'55	1°06'53
desc. node	8140 Mar 25 03:33	18° ∺ 27'13		morning rise	8141 Feb 14 03:41	15° ≈ 48'57	
	8140 Apr 02 03:07	$_{0}$ $^{\circ}$ Υ		direct	8141 Feb 17 19:39	14° ≈ 31'48	
morning set	8140 Apr 13 03:36	16° Ƴ 47'16		morning max el	8141 Feb 25 04:06	18° ≈ 38'13	19°42'57
max. Earth dist.	8140 Apr 21 05:31	29° Y 38'41	1.42979 AU	<i>5</i>	8141 Mar 06 06:42	0° ∀	
uiti	8140 Apr 21 10:46	0°8		greatest brilliancy	8141 Mar 09 22:19	5° ∺ 15'51	-0.6m
	51 10 ггрт 21 10.70	ŷ O		desc. node	8141 Mar 12 00:30	8° \(\) 21'25	0.0111
superior conj	8140 Apr 28 03:23	11° 8 05'23	-2°07'02	morning set	8141 Mar 23 00:52	8 X 2123 25° X 05'24	
	•			morning set		25° π 05′24 0° Υ	
minimum elong	8140 Apr 28 07:18	11° 8 21'53	2 00 38		8141 Mar 26 05:06		1 44405 433
·	8140 May 09 00:22	0° П		max. Earth dist.	8141 Apr 03 17:01	13° Y 19′05	1.44485 AU
evening rise	8140 May 10 00:24	1° Ⅱ 46'54			0141 4 00 10 2	20000	2011104
asc. node	8140 May 17 07:27	14° Ⅲ 35'32		superior conj	8141 Apr 08 10:21	20° ℃ 52'18	
evening max el	8140 May 26 18:44	28° Ⅱ 00'33	18°05'29	minimum elong	8141 Apr 08 08:27	20° Y 44'38	2°11'05
	8140 May 29 04:37	0			8141 Apr 14 00:38	0° 8	

ovonina rico	9141 Apr 22 00:59	13° 8 24'53		gunariar agni	9142 Mar 19 20:56	29° ¥ 50'10	1055122
evening rise	8141 Apr 22 00:58			superior conj	8142 Mar 18 20:56		
	8141 May 01 23:20	0°П		minimum elong	8142 Mar 18 12:35	29°) 17′21	1°54'48
asc. node	8141 May 04 04:31	3° Ⅱ 26′09			8142 Mar 18 23:27	0° Υ	
evening max el	8141 May 10 08:03	11° Ⅱ 20′17	18°12'34	evening rise	8142 Apr 03 02:23	24° Y ′04'09	
retrograde	8141 May 16 17:17	14° ∏ 43′00			8142 Apr 06 18:27	0°8	
evening set	8141 May 19 15:05	13° Ⅱ 58′21		greatest brilliancy	8142 Apr 09 05:37	3° 8 58'41	-0.9m
inferior conj	8141 May 25 16:07	8° Ⅲ 39'30	3°05'58	asc. node	8142 Apr 21 01:34	21° 8 41'58	
minimum elong	8141 May 25 18:08	8°∏33′56	3°05'31	evening max el	8142 Apr 23 20:01	24° 8 51'06	18°37'53
min. Earth dist.	8141 May 28 07:06	5° Ⅱ 46′07	0.63340 AU	retrograde	8142 Apr 30 09:32	28° 8 26'52	
morning rise	8141 May 31 19:47	2° Ⅱ 27'59		evening set	8142 May 03 14:39	27° 8 28'18	
morning rise	8141 Jun 05 22:44	30°R₩		inferior conj	8142 May 09 06:52	21° 8 52'33	3°22'01
direct	8141 Jun 07 14:08	29° 8 51'07		,	8142 May 09 07:32	21° 8 50'33	3°21'52
direct				minimum elong	-		
desc. node	8141 Jun 08 00:03	29° 8 51'40		min. Earth dist.	8142 May 11 06:46	19° 8 27'22	0.65202 AU
	8141 Jun 09 06:34	Π °0		morning rise	8142 May 14 23:40	15° 8 35'40	
morning max el	8141 Jun 21 12:40	7° Ⅱ 53'56	27°46'24	direct	8142 May 21 13:48	12° 8 48'57	
	8141 Jul 08 12:40	0 \circ ∞		desc. node	8142 May 25 21:03	13° 8 48'49	
	8141 Jul 25 13:06	$\mathfrak{O}^{\circ}\mathfrak{O}$		morning max el	8142 Jun 03 22:52	20° 8 42'36	27°04'59
morning set	8141 Jul 26 02:46	1° Ω 08'09			8142 Jun 11 22:56	$\Pi^{\circ}0$	
max. Earth dist.	8141 Jul 31 05:52	11° Ω 43'23	1.32584 AU		8142 Jul 01 15:36	0° ©	
asc. node	8141 Jul 31 03:48	11° Ω 32'31	1.52501110	morning set	8142 Jul 09 13:53	14° © 33'01	
ase. Houe	0141 Jul 31 03.40	11 003231		max. Earth dist.	8142 Jul 14 00:03		1.33768 AU
	0141 4 02 21 51	170 000114	0007140	max. Earm dist.			1.33706 AU
superior conj	8141 Aug 02 21:51	17° Ω 26'14			8142 Jul 17 05:56	0 \circ Ω	
minimum elong	8141 Aug 02 20:35	17° Ω 19′20	0°27'20				
	8141 Aug 08 16:45	0° m p		superior conj	8142 Jul 18 00:10	1° Ω 35'37	
evening rise	8141 Aug 09 20:37	2°₩29'25		minimum elong	8142 Jul 18 00:12	1° Ω 35'43	0°00'23
	8141 Aug 24 19:06	0∘ ⊽		behind sun begin	8142 Jul 17 18:35	1° Ω 06'14	
evening max el	8141 Sep 02 01:19	10° ≏ 05'34	23°21'45	behind sun end	8142 Jul 18 05:48	2° Ω 05′14	
desc. node	8141 Sep 03 23:03	11° ≏ 49'23		asc. node	8142 Jul 18 00:47	1° Ω 38'52	
retrograde	8141 Sep 15 13:03	16° £ 50'26		evening rise	8142 Jul 25 07:16	17° Ω 04'20	
evening set	8141 Sep 19 16:14	16° ⊆ 13'04		evening rise	8142 Jul 31 17:31	0°m	
•	•		O FFFFC AII			~	21044120
min. Earth dist.	8141 Sep 26 10:54		0.55556 AU	evening max el	8142 Aug 14 16:33	20° m 23'37	21°44′38
inferior conj	8141 Sep 28 06:39	11° Ω 59'15		desc. node	8142 Aug 21 20:07	25° m 27'22	
minimum elong	8141 Sep 28 03:25	12° ≏ 04'02	5°29'32	retrograde	8142 Aug 27 04:07	26° Mp 35'11	
morning rise	8141 Oct 06 16:45	8° ≏ 07'20		evening set	8142 Aug 29 21:32	26° Mp 18′28	
direct	8141 Oct 09 14:53	7° ≏ 46'40		inferior conj	8142 Sep 08 01:52	22° m 19'08	-4°39'19
morning max el	8141 Oct 20 08:02	12° ≏ 47'45	20°25'28	minimum elong	8142 Sep 07 16:49	22° mp 31'49	4°37'16
asc. node	8141 Oct 27 03:25	21° ≏ 05'19		min. Earth dist.	8142 Sep 07 19:33	22° m 27'59	0.54756 AU
	8141 Nov 01 11:45	0°M		morning rise	8142 Sep 16 13:16	18° m) 29'30	
morning sot	8141 Nov 08 00:32	12°M48'44		direct	8142 Sep 20 01:28	18° Mp 02'34	
morning set	6141 NOV 06 00.32	12 1164044			•	-•	21057141
	014137 15 10 11	200M 20151	1025110	morning max el	8142 Oct 02 07:21	23° m/49'26	21°5/41
superior conj	8141 Nov 15 13:41		1°35'10		8142 Oct 07 19:12	0∘ ⊽	
minimum elong	8141 Nov 15 15:30	28°M30'01	1°35'11	asc. node	8142 Oct 14 00:24	9° ≏ 24'10	
	8141 Nov 16 09:19	0° ∡ ¹		morning set	8142 Oct 23 10:28	27° ≏ 35'52	
max. Earth dist.	8141 Nov 20 20:55	8° ∡ ¹49'47	1.36358 AU		8142 Oct 24 13:51	0°M₊	
evening rise	8141 Nov 24 17:50	16° ∡ ¹05'56					
desc. node	8141 Nov 30 21:58	26° ∡ 759'14		superior conj	8142 Oct 30 14:03	12°M45'11	1°41'04
	8141 Dec 02 17:06	0°ප		minimum elong	8142 Oct 30 14:31	12°M47'38	1°41'09
	8141 Dec 23 11:37	0° ≈		max. Earth dist.	8142 Nov 03 10:16	20°M42'35	1.34568 AU
evening max el	8141 Dec 30 08:03	0 ∞ 7° ≈ 32'16	26900106	evening rise	8142 Nov 07 19:37	29°M23'59	1.54500 AC
•			20 00 00	evening rise			
retrograde	8142 Jan 11 22:13	14°≈42'27			8142 Nov 08 03:07	0° √	
evening set	8142 Jan 18 01:21	12° ≈ 12'09		desc. node	8142 Nov 17 19:00	17° ∡ 18'46	
min. Earth dist.	8142 Jan 22 07:26	7° ≈ 40′22	0.66966 AU		8142 Nov 25 20:35	0°₹	
asc. node	8142 Jan 23 02:39	6° ≈ 40'34		evening max el	8142 Dec 12 21:22	21° る 12'55	26°53'54
inferior conj	8142 Jan 23 19:43	5° ≈ 47'07	0°14'12	retrograde	8142 Dec 26 02:16	28° る 31'50	
minimum elong	8142 Jan 23 19:21	5° ≈ 48'17	0°14'10	evening set	8143 Jan 01 16:48	25° る 56'03	
transit middle	8142 Jan 23 19:21	5° ≈ 48'17	0°14'10	min. Earth dist.	8143 Jan 05 16:58	21° る 58'40	0.65743 AU
transit begin	8142 Jan 23 18:00	5°≈52'30		inferior conj	8143 Jan 07 16:49	19° る 40'25	
transit begin	8142 Jan 23 20:42	5°≈44'03		,	8143 Jan 07 18:09	19° る 36'35	0°45'26
				minimum elong			0 43 20
morning rise	8142 Jan 29 13:58	29°る58'03		asc. node	8143 Jan 09 23:43	17°る07'54	
	8142 Jan 29 12:41	30°Rる		morning rise	8143 Jan 13 20:35	14° る 02'41	
direct	8142 Feb 01 18:34	28° る 59'53		direct	8143 Jan 16 15:40	13° る 19'54	
	8142 Feb 05 03:31	0° ≈		morning max el	8143 Jan 23 02:42	16° る 46'44	18°11'50
morning max el	8142 Feb 08 12:36	2° ≈ 40′50	18°49'08		8143 Feb 01 21:54	0° ≈	
desc. node	8142 Feb 26 21:27	28° ≈ 35'28		morning set	8143 Feb 10 23:32	14° ≈ 33'17	
	8142 Feb 27 19:07	0°) €		desc. node	8143 Feb 13 18:24	19° ≈ 03'34	
morning set	8142 Mar 02 10:13	4° ₩ 06'27			8143 Feb 20 14:22	0° ∀	
max. Earth dist.	8142 Mar 17 09:37		1.45344 AU		51 15 1 QU 20 1T.22	ν <i>Λ</i>	
mus. Lartii uist.	0172 IVIGI 1/ U7.3/	21 NJ134	1.733 77 AU				

	0142 F 1 26 02 00	00 1/ 40/21	1021112	. ,	01441 22 17 26	260 = 24141	
superior conj	8143 Feb 26 02:08	8° ¥ 40'31		morning set	8144 Jan 23 17:26	26° ♂ 24'41	
minimum elong	8143 Feb 25 17:09	8° ¥ 05'13	1°20'07 1.45475 AU	1 1-	8144 Jan 25 20:18	0° ≈ 9° ≈ 41'33	
max. Earth dist.	8143 Feb 28 05:09	12° π 00'41 0° Υ	1.454/5 AU	desc. node	8144 Jan 31 15:22	9°≈41′33	
	8143 Mar 11 17:54	0° γ 3° Υ 51'18			0144 E-L 05 21.00	1000 015124	0927110
evening rise	8143 Mar 14 05:19	3° Y 51 18 22° Y 17 58	0.7	superior conj	8144 Feb 05 21:08	18°≈15'24	
greatest brilliancy	8143 Mar 26 03:44		-0.7m	minimum elong	8144 Feb 05 16:54	17°≈58'17	0°36'37
	8143 Mar 31 09:31	0°8	10020117	max. Earth dist.	8144 Feb 11 00:44	26°≈29'31	1.44865 AU
evening max el	8143 Apr 07 04:20	8° 8 26'59	19°20'17		8144 Feb 13 06:07	0° ∀	
asc. node	8143 Apr 07 22:38	9° 8 11'42		evening rise	8144 Feb 21 18:18	13°) 12′09	
retrograde	8143 Apr 14 06:09	12° 8 27'30			8144 Mar 03 20:37	0° Υ	
evening set	8143 Apr 17 19:09	11° 8 14'16		evening max el	8144 Mar 20 07:33	22° Y 05'24	20°17'53
inferior conj	8143 Apr 23 05:51	5° 8 23'00	3°22'20	asc. node	8144 Mar 24 19:43	25° Y '42'47	
minimum elong	8143 Apr 23 05:16	5° 8 24'57	3°22'13	retrograde	8144 Mar 28 04:36	26° Ƴ 40'30	
min. Earth dist.	8143 Apr 24 14:27	3° 8 36'55	0.66667 AU	evening set	8144 Apr 01 02:24	25° Y 12'10	
	8143 Apr 27 16:11	30° ₹Ƴ		inferior conj	8144 Apr 06 10:20	19° Ƴ 07'12	3°10'04
morning rise	8143 Apr 28 15:00	29° Ƴ 05′13		minimum elong	8144 Apr 06 08:47	19° Ƴ 12'29	3°09'48
direct	8143 May 04 19:53	26° Y 20′54		min. Earth dist.	8144 Apr 07 04:39	18° Ƴ 04'51	0.67689 AU
desc. node	8143 May 12 18:03	29° Ƴ 42′10		morning rise	8144 Apr 11 14:57	12° Y 50'59	
	8143 May 13 03:16	0°8		direct	8144 Apr 17 07:24	10° Ƴ 18'51	
morning max el	8143 May 17 08:51	3° 8 50'28	25°57'36	desc. node	8144 Apr 28 15:04	17° Ƴ 02'17	
	8143 Jun 06 07:03	$\Pi^{\circ}0$		morning max el	8144 Apr 28 18:03	17° Ƴ 09'49	24°33'57
morning set	8143 Jun 22 11:33	27° Ⅱ 16′07			8144 May 09 10:32	0°8	
	8143 Jun 23 22:48	0°ම			8144 May 29 07:22	$\Pi^{\circ}0$	
max. Earth dist.	8143 Jun 26 07:19	4°\$28'26	1.35427 AU	morning set	8144 Jun 03 15:01	9° Ⅱ 05'24	
				max. Earth dist.	8144 Jun 07 06:04	15° Ⅲ 34′01	1.37474 AU
superior conj	8143 Jul 01 18:43	15° © 18'00	-0°30'58				
minimum elong	8143 Jul 01 20:32	15°927'10		superior conj	8144 Jun 14 02:22	28° Ⅱ 25'41	-1°02'46
asc. node	8143 Jul 04 21:46	21°9541'57	0 30 .0	minimum elong	8144 Jun 14 06:13	28° ∏ 44'21	
use. Houe	8143 Jul 08 22:05	0°Ω		minimum crong	8144 Jun 14 21:47	0°95	1 02 10
evening rise	8143 Jul 09 14:48	1° Ω 26'05		asc. node	8144 Jun 20 18:47	11° © 38'16	
evening rise	8143 Jul 26 15:03	0° m)		evening rise	8144 Jun 22 16:52	15°9528'22	
evening max el	8143 Jul 27 18:57	1° Mp 12'29	20°20'51	evening rise	8144 Jun 30 08:11	0°Ω	
retrograde	8143 Aug 07 16:30	6° Mp 35'25	20 20 31	evening max el	8144 Jul 09 10:29	12° Ω 45'15	19°16'35
•	•	=		•	8144 Jul 18 15:29		19 10 33
desc. node	8143 Aug 08 17:11	6° m 32'43		retrograde		17° Ω 18'15	
evening set	8143 Aug 09 15:56	6° Mp 25'34	2000145	evening set	8144 Jul 20 12:39	17° Ω 07'39	
inferior conj	8143 Aug 18 19:32	2° m/27'58		desc. node	8144 Jul 25 14:17	15° Ω 08'34	1002155
minimum elong	8143 Aug 18 11:27	2° My 39'46		inferior conj	8144 Jul 29 01:50	12°Ω58'07	
min. Earth dist.	8143 Aug 20 05:28	1° m/38'24	0.54885 AU	minimum elong	8144 Jul 28 23:00	13° Ω 02'48	1°02'56
	8143 Aug 23 05:04	30°R€		min. Earth dist.	8144 Jul 31 18:35	11°Ω11'18	0.55937 AU
morning rise	8143 Aug 27 06:08	28° Ω 20'44		morning rise	8144 Aug 06 06:32	8° Ω 16'54	
direct	8143 Aug 31 11:19	27° Ω 42′28		direct	8144 Aug 11 07:21	7° Ω 18'56	
	8143 Sep 08 08:05	O° m y		morning max el	8144 Aug 25 10:24	14° Ω 28'26	25°25'20
morning max el	8143 Sep 13 21:44	4° m 14'08	23°42'27		8144 Sep 06 18:04	0° m)	
asc. node	8143 Sep 30 21:22	28° m) 19'27		asc. node	8144 Sep 16 18:21	17° m)41'28	
	8143 Oct 01 18:42	0∘ ⊽		morning set	8144 Sep 21 09:36	27° m 14'05	
morning set	8143 Oct 07 22:04	12° ≙ 26′10			8144 Sep 22 16:32	0∘ ⊽	
superior conj	8143 Oct 14 20:28	27° ≏ 25'45	1°40'14	superior conj	8144 Sep 28 06:30	12° ≙ 14'43	1°33'25
minimum elong	8143 Oct 14 19:43	27° ≙ 21'45	1°40'16	minimum elong	8144 Sep 28 04:52	12° ≙ 05'39	1°33'18
	8143 Oct 16 01:05	0°M		max. Earth dist.	8144 Sep 29 13:22	15° ≏ 04'11	1.32225 AU
max. Earth dist.	8143 Oct 17 08:13	2°M46'25	1.33176 AU	evening rise	8144 Oct 05 08:52	27° ≏ 30'04	
evening rise	8143 Oct 22 09:45	13°ML15'13			8144 Oct 06 14:05	0° M.	
	8143 Oct 31 07:52	0° ∡ ¹		desc. node	8144 Oct 21 13:07	26°M51′13	
desc. node	8143 Nov 04 16:03	7° ∡ 19'01			8144 Oct 23 14:51	0° ∡ ¹	
	8143 Nov 20 23:57	0°రె		evening max el	8144 Nov 06 19:35	17° ∡ ¹29'39	27°25'39
evening max el	8143 Nov 25 09:58	4° ප 36'47	27°24'30	retrograde	8144 Nov 20 14:38	24° ∡ ⁴44'45	
retrograde	8143 Dec 08 23:56	11° ප 55'56		evening set	8144 Nov 27 17:18	22° ∡ ¹20'30	
evening set	8143 Dec 15 23:10	9° ට 21'25		min. Earth dist.	8144 Dec 01 09:27	19° ∡ °24'23	0.62325 AU
min. Earth dist.	8143 Dec 19 18:16		0.64181 AU	inferior conj	8144 Dec 04 07:19	16° ∡ 741'07	
inferior conj	8143 Dec 22 05:41	3° る 21'12		minimum elong	8144 Dec 04 13:02	16° х 11°07 16° х 27'42	
minimum elong	8143 Dec 22 09:10	3° ප 12'04		morning rise	8144 Dec 11 10:54	11° × 35'42	· -
Ciong	8143 Dec 25 16:31	30°R ₹		direct	8144 Dec 13 17:38	11° 🖈 12'26	
asc. node	8143 Dec 27 20:47	28° × 727'19		asc. node	8144 Dec 13 17:51	11° 🖈 12'26	
morning rise	8143 Dec 28 20:47	27° 🖈 57'56		morning max el	8144 Dec 13 17:31 8144 Dec 20 12:40	14° × ⁷ 40'07	17°49'07
direct	8143 Dec 28 20.47 8143 Dec 31 08:27	27° × ³ 736'43		morning max ci	8144 Dec 31 02:55	14 メ・4007 0°る	11 7701
ancei	8144 Jan 05 22:35	27 x ·2043		morning act	8144 Dec 31 02.33 8145 Jan 05 09:46	0 3 9° る 19'45	
morning mey al		0°る 0°る49'23	17051120	morning set	0145 Jan US U9:40	9 01943	
morning max el	8144 Jan 06 19:46	0 04923	1/ 3130				

superior conj	8145 Jan 16 16:35	29° る 01'32	0°06'03		8145 Dec 05 18:57	0°⊀	
minimum elong	8145 Jan 16 17:11	29° る 04'02	0°06'06	morning set	8145 Dec 19 18:19	23° ₹ ¹00'01	
behind sun begin	8145 Jan 16 08:56	28° පි 29'06			8145 Dec 23 12:25	0°ರ	
behind sun end	8145 Jan 17 01:26	29° る 38'52					
	8145 Jan 17 06:27	0° ≈		superior conj	8145 Dec 29 13:00	10°る58'55	0°42'32
desc. node	8145 Jan 17 12:20	0° ≈ 24'47		minimum elong	8145 Dec 29 16:03	11° る 12'28	0°42'15
max. Earth dist.	8145 Jan 23 17:06	10° ≈ 38'15	1.43583 AU	desc. node	8146 Jan 04 09:19	21° る 09'59	
evening rise	8145 Jan 31 07:38	22° ≈ 41'17		max. Earth dist.	8146 Jan 06 04:21		1.41786 AU
	8145 Feb 05 01:54	0°) €			8146 Jan 09 16:43	0° ≈	
	8145 Feb 26 04:40	$0^{\circ}\Upsilon$		evening rise	8146 Jan 11 11:17	2°≈52'14	
evening max el	8145 Mar 03 05:11	5° Υ 44'38	21°27'53	evening rise	8146 Jan 29 11:02	0° ∀	
asc. node	8145 Mar 11 16:51	10° Υ 59'38	21 27 33	evening max el	8146 Feb 13 22:08	19°) 25'48	22045152
		10 γ 39 38 11° γ 00'31		•		25°\(\frac{19}{22'58}\)	22 43 32
retrograde	8145 Mar 12 02:50	9° Υ 17'02		retrograde	8146 Feb 23 23:02		
evening set	8145 Mar 16 10:33		20.4711.6	asc. node	8146 Feb 26 13:58	24°) (48'24	
inferior conj	8145 Mar 21 17:56	3° Y 00′50	2°47'16	evening set	8146 Feb 28 17:56	23° H 24'35	
minimum elong	8145 Mar 21 15:49	3° Y 08'12	2°46'47	inferior conj	8146 Mar 06 02:37	17° ₩ 00′28	
min. Earth dist.	8145 Mar 21 23:12	2° Y 42'33	0.68260 AU	minimum elong	8146 Mar 06 00:22	17° ∺ 08'18	2°14'31
	8145 Mar 23 23:15	30° ₹ ₩		min. Earth dist.	8146 Mar 05 19:51	17° ¥ 23'58	0.68406 AU
morning rise	8145 Mar 26 20:55	26°) (47'47		morning rise	8146 Mar 11 06:41	10°) 51′56	
direct	8145 Mar 31 23:32	24°) 34′15		direct	8146 Mar 15 19:16	9° ₩ 00'09	
	8145 Apr 10 13:05	0 ° Υ		morning max el	8146 Mar 24 17:16	14°) 11'27	21°37'33
morning max el	8145 Apr 11 03:51	0° Ƴ 36'34	23°04'14	desc. node	8146 Apr 02 09:00	24°) 32′07	
desc. node	8145 Apr 15 12:03	5° Ƴ 24'48			8146 Apr 06 08:47	$0^{\circ}\mathbf{\Upsilon}$	
	8145 May 03 07:32	0°8		morning set	8146 Apr 25 18:55	29° Ƴ 11'54	
morning set	8145 May 15 18:47	19° 8 47'06		S	8146 Apr 26 06:59	0°8	
max. Earth dist.	8145 May 20 02:19	27° 8 05'50	1.39711 AU	max. Earth dist.	8146 May 02 02:22	9° 8 25'59	1.41876 AU
max. Earth dist.	8145 May 21 18:25	0°II	1.57/11/10	max. Lartii dist.	0140 May 02 02.22) 0233)	1.410/0710
	6145 Way 21 16.25	υп		superior conj	8146 May 09 16:19	22° 8 17'55	1057125
	0145 M 27 10-00	100T 40122	1922/50		•		
superior conj	8145 May 27 19:08	10° Ⅱ 49'23		minimum elong	8146 May 09 21:45	22° 8 41'37	1-3/1/
minimum elong	8145 May 28 00:38	11° Ⅱ 14'42	1°32°25		8146 May 14 00:58	0°II	
evening rise	8145 Jun 06 10:28	29° Ⅱ 03′24		evening rise	8146 May 20 15:43	12° Ⅱ 00'53	
	8145 Jun 06 22:18	0ංම		asc. node	8146 May 25 12:53	20° ∏ 52'56	
asc. node	8145 Jun 07 15:50	1° © 23'45			8146 May 30 22:22	0	
evening max el	8145 Jun 22 12:56	25° © 00'16	18°33'11	evening max el	8146 Jun 05 22:28	7° © 48'09	18°10'01
retrograde	8145 Jun 30 08:35	28° © 53'41		retrograde	8146 Jun 12 19:56	11° © 17'18	
evening set	8145 Jul 02 11:19	28° © 37'32		evening set	8146 Jun 15 06:17	10° © 51'50	
inferior conj	8145 Jul 10 04:51	24° © 09'18	0°40'22	inferior conj	8146 Jun 22 05:10	6° © 03′13	1°57'53
minimum elong	8145 Jul 10 06:18	24° 5 06'29	0°39'42	minimum elong	8146 Jun 22 08:12	5°\$56'22	1°56'49
desc. node	8145 Jul 12 11:22	22°523'16		min. Earth dist.	8146 Jun 25 13:27	3°503'09	0.59895 AU
min. Earth dist.	8145 Jul 13 12:43	21° © 35'31	0.57715 AU	morning rise	8146 Jun 29 07:12	0°ഇ16'21	
morning rise	8145 Jul 17 21:46	18° © 51'09		desc. node	8146 Jun 29 08:26	0°9514'30	
direct	8145 Jul 23 18:09	17° 5 24'22			8146 Jun 29 18:23	30° Ŗ Ⅱ	
morning max el	8145 Aug 07 03:21	25°901'35	26°49'16	direct	8146 Jul 05 18:20	28° I 17'33	
morning man vi	8145 Aug 11 17:45	0° Ω	20 .7 10	4.1.001	8146 Jul 12 01:30	0°9	
	8145 Aug 30 22:21	0° m)		morning max el	8146 Jul 20 02:43	6°9511'40	27°41'09
asc. node	8145 Sep 03 15:19	7° Mp 22'45		morning max ci	8146 Aug 06 22:44	0°Ω	27 41 07
	-				-	26° Ω 22'12	
morning set	8145 Sep 05 19:27	11° M 54'45		morning set	8146 Aug 21 01:50		
	0145 0 12 10 12	270 m 05140	1001111	asc. node	8146 Aug 21 12:17	27° Ω 16'53	
superior conj	8145 Sep 12 18:13	27° m 05'48			8146 Aug 22 19:07	0° m	
minimum elong	8145 Sep 12 16:04	26° m 53'49		max. Earth dist.	8146 Aug 27 08:40	9° ™ 56'03	1.31697 AU
max. Earth dist.	8145 Sep 12 22:43	27° Mp 30'46	1.31731 AU				
	8145 Sep 14 01:39	0∘ ত		superior conj	8146 Aug 28 05:43	11° m 52'25	1°03'58
evening rise	8145 Sep 19 14:18	12° ഫ 01'00		minimum elong	8146 Aug 28 03:30	11° Mp 40'08	1°03'32
	8145 Sep 28 17:44	0° M ₊		evening rise	8146 Sep 03 23:41	26° Mp 40′38	
desc. node	8145 Oct 08 10:12	15°M43'56			8146 Sep 05 13:21	0∘ ত	
evening max el	8145 Oct 19 23:39	29°M39'34	26°53'26		8146 Sep 22 13:21	0° M.	
	8145 Oct 20 08:24	0° ∡ ¹		desc. node	8146 Sep 25 07:17	3°M40'54	
retrograde	8145 Nov 02 21:28	6° ∡ 749'12		evening max el	8146 Oct 01 20:11	10°M59'06	25°48'29
evening set	8145 Nov 09 19:12	4° х 46′21		retrograde	8146 Oct 15 18:36	18°M02'32	•
min. Earth dist.	8145 Nov 13 13:59		0.60270 AU	evening set	8146 Oct 21 23:56	16°M31'28	
mm. Latin dist.	8145 Nov 16 04:37	30°RM	0.00270 AU	min. Earth dist.	8146 Oct 26 08:48	13°M55'32	0.58195 AU
infarior con:		29°M31'39	4000122	inferior conj	8146 Oct 29 11:12	13 IIC33 32 11°ML42'53	
inferior conj	8145 Nov 16 18:19			,			
minimum elong	8145 Nov 17 01:30	29°MJ6'51	4-0723	minimum elong	8146 Oct 29 17:25	11°M31'45	5-04-19
morning rise	8145 Nov 24 10:12	24°M47'02		morning rise	8146 Nov 06 13:14	7°M20'50	
direct	8145 Nov 26 15:14	24°M28'24		direct	8146 Nov 08 21:02	7°M03'36	
asc. node	8145 Nov 30 14:53	25°M32'09		asc. node	8146 Nov 17 11:53	11° M 17'47	
morning max el	8145 Dec 04 02:00	28°M10'01	18°05'27	morning max el	8146 Nov 17 08:05	11°M08'33	18°42'24

morning set	8146 Nov 29 20:21 8146 Dec 03 14:08	0° ₰ 7° ₰ 11'16		morning set	8147 Nov 17 17:28 8147 Nov 21 19:41	21°M42'28 0°⊀	
superior conj	8146 Dec 12 06:01	23° х 54′53	1°09'59	superior conj	8147 Nov 25 14:29	7° ∡ ³34'43	1°28'23
minimum elong	8146 Dec 12 09:23	24° ∡ 10'47	1°09'43	minimum elong	8147 Nov 25 17:01	7° ∡ ¹47'14	1°28'17
	8146 Dec 15 12:44	0°ප		max. Earth dist.	8147 Dec 01 17:14	19° √ 19'09	1.37527 AU
max. Earth dist.	8146 Dec 19 11:19	7° る 03'40	1.39685 AU	evening rise	8147 Dec 05 10:51	26° х ¹06'39	
desc. node	8146 Dec 22 06:18	11° る 53'45			8147 Dec 07 15:59	0°ಕ	
evening rise	8146 Dec 23 12:20	14° る 01'09		desc. node	8147 Dec 09 03:18	2° る 31'48	
	8147 Jan 02 10:42	0° ≈			8147 Dec 26 23:45	0° ≈	
	8147 Jan 24 12:03	0° ∀		evening max el	8148 Jan 10 01:30	16° ≈ 58'46	25°21'35
evening max el	8147 Jan 27 12:20	3° ¥ 11′09	24°06'01	retrograde	8148 Jan 22 04:12	23° ≈ 57'53	
retrograde	8147 Feb 07 15:51	9°) 43′58		evening set	8148 Jan 28 00:14	21° ≈ 33′08	
evening set	8147 Feb 12 23:01	7°) (31'31		asc. node	8148 Jan 31 08:06	18°≈03'16	
asc. node	8147 Feb 13 11:02	7°) €04'50		min. Earth dist.	8148 Feb 01 10:09	16° ≈ 41'34	0.67509 AU
min. Earth dist.	8147 Feb 17 16:17	2°) (05'13	0.68150 AU	inferior conj	8148 Feb 02 15:50	15°≈05'43	0°45'46
inferior conj	8147 Feb 18 10:33	1° 米 03′26	1°34'31	minimum elong	8148 Feb 02 14:44	15°≈09'17	0°45'27
minimum elong	8147 Feb 18 08:36	1°) €09'59	1°33'54	morning rise	8148 Feb 08 05:33	9°≈11'17	
	8147 Feb 19 05:24	30°R≈		direct	8148 Feb 11 16:37	8°≈02'24	10010107
morning rise direct	8147 Feb 23 18:13 8147 Feb 27 17:29	25°≈01'01 23°≈31'27		morning max el greatest brilliancy	8148 Feb 18 17:48	11°≈56'07 29°≈16'25	19°18'07 -0.7m
	8147 Mar 07 13:32	23 ≈31 27 27°≈58'06	20°20'50	greatest orimancy	8148 Mar 02 19:30 8148 Mar 03 07:08	29 ≈ 1623	-U. /III
morning max el	8147 Mar 07 13:32 8147 Mar 09 11:31	27 ≈3800 0° H	20 20 30	desc. node	8148 Mar 06 02:51	0 X 4° ¥ 15'51	
desc. node	8147 Mar 20 05:56	14°) 12'14		morning set	8148 Mar 13 20:14	16°) (1331	
dese. Hode	8147 Mar 30 21:06	0° Υ		morning set	8148 Mar 22 18:39	0° Υ	
morning set	8147 Apr 04 20:41	7° Υ 38'29		max. Earth dist.	8148 Mar 27 00:32	6° Υ 39'53	1.44946 AU
max. Earth dist.	8147 Apr 14 09:58	22° Υ 41'15	1.43694 AU	max. Earth dist.	0140 Wai 27 00.32	0 1 37 33	1.44740710
max. Darm dist.	8147 Apr 18 22:07	0°8	1.130)1110	superior conj	8148 Mar 30 10:52	12° Υ '05'52	-2°06'56
				minimum elong	8148 Mar 30 05:53	11° Y '46'04	
superior conj	8147 Apr 20 13:44	2° 8 43'05	-2°10'55	8	8148 Apr 10 12:30	0°8	
minimum elong	8147 Apr 20 15:37	2° 8 50'50		evening rise	8148 Apr 13 19:02	5° 8 24'14	
evening rise	8147 May 03 04:04	24° 8 10'51		asc. node	8148 Apr 28 07:00	28° 8 37'10	
-	8147 May 06 12:15	$\Pi^{\circ}0$			8148 Apr 29 07:06	Π $^{\circ}0$	
asc. node	8147 May 12 09:57	10° Ⅱ 00'04		evening max el	8148 May 03 00:30	4° Ⅱ 24'48	18°21'07
evening max el	8147 May 20 11:26	20° Ⅱ 59'24	18°06'14	retrograde	8148 May 09 10:21	7° Ⅱ 51'19	
retrograde	8147 May 26 22:01	24° Ⅲ 20′01		evening set	8148 May 12 11:19	7° Ⅱ 00'41	
evening set	8147 May 29 15:50	23° Ⅱ 42'42		inferior conj	8148 May 18 08:08	1° Ⅲ 34′13	3°14'54
inferior conj	8147 Jun 04 23:39	18° Ⅲ 34′22	2°47'52	minimum elong	8148 May 18 09:35	1° Ⅲ 30′02	3°14'37
minimum elong	8147 Jun 05 02:19	18° Ⅲ 27′28	2°47'10		8148 May 19 16:38	30°₽ ႘	
min. Earth dist.	8147 Jun 07 22:27	15° Ⅲ 32′28	0.62139 AU	min. Earth dist.	8148 May 20 16:43		0.64183 AU
morning rise	8147 Jun 11 10:57	12° Ⅱ 29'26		morning rise	8148 May 24 06:49	25° 8 19'51	
desc. node	8147 Jun 16 05:27	10° Ⅱ 15'57		direct	8148 May 31 00:04	22° 8 37'38	
direct	8147 Jun 18 04:59	10° Ⅱ 03'44		desc. node	8148 Jun 02 02:28	22° 8 51'48	
morning max el	8147 Jul 02 08:08	18° Ⅱ 05'15	27°55'09		8148 Jun 13 02:29	0°II	
	8147 Jul 12 07:29	0°©		morning max el	8148 Jun 13 17:30	0° Ⅱ 37'18	27°32'30
	8147 Jul 30 18:10	0° N			8148 Jul 05 09:06	0°©	
morning set asc. node	8147 Aug 05 02:45	10° Ω 31'04 17° Ω 19'13		morning set	8148 Jul 18 19:47	24° © 14'34 0° Ω	
max. Earth dist.	8147 Aug 08 09:15 8147 Aug 10 15:35		1.32131 AU	max. Earth dist.	8148 Jul 21 16:36 8148 Jul 23 15:37	4° Ω 02'35	1.33034 AU
				asc. node	8148 Jul 25 06:14	7° Ω 25'26	1.33034 AO
superior conj	8147 Aug 12 15:13	26° Ω 29'12		_			
minimum elong	8147 Aug 12 13:26	26° Ω 19'29	0°41'43	superior conj	8148 Jul 26 20:47	10° Ω 50′28	0°16'15
	8147 Aug 14 05:41	0° ™		minimum elong	8148 Jul 26 19:59	10° Ω 46′13	0°15'58
evening rise	8147 Aug 19 11:04	11° Tp 23'13		behind sun begin	8148 Jul 26 19:38	10° Ω 44'18	
	8147 Aug 28 20:31	0∘ ⊽		behind sun end	8148 Jul 26 20:21	10° Ω 48'09	
desc. node	8147 Sep 12 04:23	20° £ 20′30	24919142	evening rise	8148 Aug 02 22:33	26° Ω 02'59	
evening max el	8147 Sep 13 09:35	21° Ω 33'19	24-18-42		8148 Aug 04 19:40	0ം ⊽ 0ംൂൂ	
retrograde evening set	8147 Sep 27 03:40 8147 Oct 02 03:56	28° £ 27'18 27° £ 31'51		evening max el	8148 Aug 23 04:08 8148 Aug 24 21:24	0° 12 1° 1 46'38	22°39'26
min. Earth dist.	8147 Oct 02 03:36 8147 Oct 07 20:26	24° £ 31'31	0.56372 AU	desc. node	8148 Aug 24 21:24 8148 Aug 29 01:27	5° £ 14'36	44 37 40
inferior conj	8147 Oct 07 20:28 8147 Oct 10 07:48	24 ≥ 3942 23° ♀ 07'13		retrograde	8148 Sep 07 00:29	3 ≗ 14 30 8° £ 19'45	
minimum elong	8147 Oct 10 07:48 8147 Oct 10 08:55	23° ⊆ 0713		evening set	8148 Sep 10 12:27	8 ⊆ 1943 7° ⊆ 52'52	
morning rise	8147 Oct 10 08:33 8147 Oct 18 16:02	23 = 03 27 19° ⊆ 06′24	5 55 50	min. Earth dist.	8148 Sep 10 12.27 8148 Sep 18 04:53		0.55110 AU
direct	8147 Oct 21 07:54	19 ⊆ 00 24 18° ⊆ 47'35		inferior conj	8148 Sep 19 10:02	3° £ 46'23	
morning max el	8147 Oct 31 03:20	23° Ω 25'19	19°41'29	minimum elong	8148 Sep 19 03:43	3° ≏ 55'23	
asc. node	8147 Nov 04 08:52	28° ♀ 14'33		morning rise	8148 Sep 27 20:55	29° m 58'07	
	8147 Nov 05 15:26	0°M₊		Č	8148 Sep 27 17:48	30°R, Mp	
					-		

11. 4	0140 0 4 01 00 51	200m-25112		. 1	0140 4 10 12 20	100 m 07!10	
direct	8148 Oct 01 00:51	29° m 35'12		retrograde	8149 Aug 18 13:28	18° Mp 07'19	
	8148 Oct 04 05:31	0° ™	21002120	evening set	8149 Aug 20 20:46	17° Mp 54'51	1002100
morning max el	8148 Oct 12 09:48	4° £ 54'38	21°02'38	inferior conj	8149 Aug 30 02:46	13° m 57'42	
asc. node	8148 Oct 21 05:50	16° Ω 07'43		minimum elong	8149 Aug 29 17:16	14° Mp 11'06	
	8148 Oct 28 21:47	0°M		min. Earth dist.	8149 Aug 30 13:51	13° Mp 42'03	0.54686 AU
morning set	8148 Nov 01 01:40	6°M26'15		morning rise	8149 Sep 07 14:14	10° m 03'09	
				direct	8149 Sep 11 08:57	9° m 32'28	
superior conj	8148 Nov 08 10:07	21°M46'31	1°38'33	morning max el	8149 Sep 24 04:47	15° m 39'00	22°41'34
minimum elong	8148 Nov 08 11:21	21°M52'53	1°38'36		8149 Oct 05 08:18	0∘ ⊽	
	8148 Nov 12 11:36	0°⊀		asc. node	8149 Oct 08 02:49	4° £ 43′20	
max. Earth dist.	8148 Nov 13 02:42	1° ≯ 14'36	1.35549 AU	morning set	8149 Oct 16 12:31	21° ≏ 15'25	
evening rise	8148 Nov 17 03:50	9° ≯ 01'23			8149 Oct 20 14:41	0° M	
desc. node	8148 Nov 25 00:20	23° ₹ 00'02					
	8148 Nov 29 06:48	0°ප		superior conj	8149 Oct 23 13:24	6° ™ 19'01	1°41'29
	8148 Dec 21 20:44	0° ≈		minimum elong	8149 Oct 23 13:19	6°M18′38	1°41'34
evening max el	8148 Dec 22 14:37	0° ≈ 43'58	26°25'19	max. Earth dist.	8149 Oct 26 19:27	13°M09'48	1.33916 AU
retrograde	8149 Jan 04 11:29	7° ≈ 58'53		evening rise	8149 Oct 31 11:17	22°M34'33	
evening set	8149 Jan 10 19:52	5° ≈ 25'19			8149 Nov 04 08:41	0° ∡ ¹	
min. Earth dist.	8149 Jan 14 23:17	1° ≈ 08'32	0.66493 AU	desc. node	8149 Nov 11 21:24	13° ∡ 12'15	
	8149 Jan 15 22:02	30°Ŗる			8149 Nov 23 00:12	5°0	
inferior conj	8149 Jan 16 16:33	29° る 03'44	-0°10'33	evening max el	8149 Dec 05 03:34	14° る 17'58	27°10'06
minimum elong	8149 Jan 16 16:49	29° る 02'53	0°10'17	retrograde	8149 Dec 18 13:03	21° る 38'38	
transit middle	8149 Jan 16 16:49	29° る 02'53	0°10'17	evening set	8149 Dec 25 07:47	19° る 02'05	
transit begin	8149 Jan 16 14:36	29° ろ 09'38		min. Earth dist.	8149 Dec 29 05:30	15° る 19'16	0.65115 AU
transit end	8149 Jan 16 19:03	28° පි 56'10		inferior conj	8149 Dec 31 10:26	12° る 52'07	-1°13'37
asc. node	8149 Jan 17 05:08	28° る 25'45		minimum elong	8149 Dec 31 12:38	12° ප් 46'01	1°12'33
morning rise	8149 Jan 22 14:36	23° る 19'26		asc. node	8150 Jan 04 02:12	9° ⋜ 08'54	1 1200
direct	8149 Jan 25 14:58	22° る 28'16		morning rise	8150 Jan 06 18:51	7° る 20'27	
morning max el	8149 Feb 01 05:03	26° පි 01'34	18°31'17	direct	8150 Jan 09 10:25	6° පි 43'11	
morning max cr	8149 Feb 04 16:27	0°≈	10 31 17	morning max el	8150 Jan 15 20:49	10° ප 07'14	18°01'11
desc. node	8149 Feb 20 23:48	0 ~ 24° ≈ 36'43		morning max ci	8150 Jan 29 15:43	0°≈	10 01 11
morning set	8149 Feb 21 16:36	25°≈43'14		morning set	8150 Feb 02 18:32	6°≈47'30	
morning set	8149 Feb 24 09:30	0°)		desc. node	8150 Feb 07 20:46	15°≈09'31	
	8149 100 24 09.30	0 X		desc. Hode	8130 100 07 20.40	13 ~0931	
superior conj	8149 Mar 09 16:47	2001/5407	10.40146				1002100
		70° # 54'0 /	-1°47'46	superior cont	8150 Feb. 17 01:51	29°2258'34	-1903'08
		20° ¥ 54'07		superior conj	8150 Feb 17 01:51	29°≈58'34 29°≈29'37	
minimum elong	8149 Mar 09 07:15	20° 升 16'49	1°41'52	minimum elong	8150 Feb 16 18:33	29° ≈ 29'37	
	8149 Mar 09 07:15 8149 Mar 09 19:03	20°¥16'49 21°¥02'59	1°41'52	minimum elong	8150 Feb 16 18:33 8150 Feb 17 02:13	29° ≈ 29'37 0° 米	1°02'07
minimum elong max. Earth dist.	8149 Mar 09 07:15 8149 Mar 09 19:03 8149 Mar 15 12:08	20°¥16'49 21°¥02'59 0° °	1°41'52	minimum elong max. Earth dist.	8150 Feb 16 18:33 8150 Feb 17 02:13 8150 Feb 20 14:32	29° ≈ 29'37 0° 米 5° 米 32'40	
minimum elong	8149 Mar 09 07:15 8149 Mar 09 19:03 8149 Mar 15 12:08 8149 Mar 25 10:30	20°¥16'49 21°¥02'59 0° ° 15° ° ¥40'18	1°41'52	minimum elong	8150 Feb 16 18:33 8150 Feb 17 02:13 8150 Feb 20 14:32 8150 Mar 05 06:00	29°≈29'37 0° \ 5° \ 32'40 25° \ 12'17	1°02'07
minimum elong max. Earth dist. evening rise	8149 Mar 09 07:15 8149 Mar 09 19:03 8149 Mar 15 12:08 8149 Mar 25 10:30 8149 Apr 03 11:47	20° χ 16'49 21° χ 02'59 0° Υ 15° Υ 40'18 0° ႘	1°41'52 1.45495 AU	minimum elong max. Earth dist. evening rise	8150 Feb 16 18:33 8150 Feb 17 02:13 8150 Feb 20 14:32 8150 Mar 05 06:00 8150 Mar 08 08:42	29°≈29'37 0°¥ 5°¥32'40 25°¥12'17 0°°	1°02'07 1.45296 AU
minimum elong max. Earth dist. evening rise greatest brilliancy	8149 Mar 09 07:15 8149 Mar 09 19:03 8149 Mar 15 12:08 8149 Mar 25 10:30 8149 Apr 03 11:47 8149 Apr 03 11:13	20° χ 16'49 21° χ 02'59 0° γ 15° γ 40'18 0° ႘ 29° γ 57'48	1°41'52	minimum elong max. Earth dist.	8150 Feb 16 18:33 8150 Feb 17 02:13 8150 Feb 20 14:32 8150 Mar 05 06:00 8150 Mar 08 08:42 8150 Mar 19 00:00	29°≈29'37 0°₩ 5°₩32'40 25°₩12'17 0°Ψ 16°Υ'08'53	1°02'07
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node	8149 Mar 09 07:15 8149 Mar 09 19:03 8149 Mar 15 12:08 8149 Mar 25 10:30 8149 Apr 03 11:47 8149 Apr 03 11:13 8149 Apr 15 04:04	20°\;\;\)16'49 21°\;\;\)02'59 0°\?\ 15°\?\]40'18 0°\;\> 29°\?\\$57'48 16°\;\>35'03	1°41'52 1.45495 AU -0.8m	minimum elong max. Earth dist. evening rise greatest brilliancy	8150 Feb 16 18:33 8150 Feb 17 02:13 8150 Feb 20 14:32 8150 Mar 05 06:00 8150 Mar 08 08:42 8150 Mar 19 00:00 8150 Mar 29 05:45	29°≈29'37 0°¥ 5°¥32'40 25°¥12'17 0°° 16°°¥08'53 0°8	1°02'07 1.45296 AU -0.7m
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el	8149 Mar 09 07:15 8149 Mar 09 19:03 8149 Mar 15 12:08 8149 Mar 25 10:30 8149 Apr 03 11:47 8149 Apr 03 11:13 8149 Apr 15 04:04 8149 Apr 16 11:05	20°\;\;\)16'49 21°\;\;\)02'59 0°\\cdot\\ 15°\;\>\\\\ 40'18 0°\;\>\\ 29°\;\>\\\\ 16°\;\>\\\\ 35'03 17°\;\>\\\\\ 58'10	1°41'52 1.45495 AU	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el	8150 Feb 16 18:33 8150 Feb 17 02:13 8150 Feb 20 14:32 8150 Mar 05 06:00 8150 Mar 08 08:42 8150 Mar 19 00:00 8150 Mar 29 05:45 8150 Mar 30 17:19	29°≈29'37 0° ℋ 5° ℋ32'40 25° ℋ12'17 0° ♈ 16° ♈08'53 0° ♉ 1° ♂35'42	1°02'07 1.45296 AU
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde	8149 Mar 09 07:15 8149 Mar 09 19:03 8149 Mar 15 12:08 8149 Mar 25 10:30 8149 Apr 03 11:47 8149 Apr 03 11:13 8149 Apr 15 04:04 8149 Apr 16 11:05 8149 Apr 23 04:58	20°\(\)16'49 21°\(\)402'59 0°\(\)7 15°\(\)740'18 0°\(\)8 29°\(\)757'48 16°\(\)35'03 17°\(\)858'10 21°\(\)43'25	1°41'52 1.45495 AU -0.8m	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node	8150 Feb 16 18:33 8150 Feb 17 02:13 8150 Feb 20 14:32 8150 Mar 05 06:00 8150 Mar 08 08:42 8150 Mar 19 00:00 8150 Mar 29 05:45 8150 Mar 30 17:19 8150 Apr 02 01:09	29°≈29'37 0° ₩ 5° ₩32'40 25° ₩12'17 0° Ψ 16° Ψ08'53 0° ₩ 1° ₩35'42 3° ₩42'06	1°02'07 1.45296 AU -0.7m
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set	8149 Mar 09 07:15 8149 Mar 09 19:03 8149 Mar 15 12:08 8149 Mar 25 10:30 8149 Apr 03 11:47 8149 Apr 03 11:13 8149 Apr 15 04:04 8149 Apr 16 11:05 8149 Apr 23 04:58 8149 Apr 26 13:19	20° ★ 16'49 21° ★ 02'59 0° ♀ 15° ♀ 40'18 0° ♉ 29° ♀ 57'48 16° ♂ 35'03 17° ♂ 58'10 21° ♂ 43'25 20° ♂ 38'40	1°41'52 1.45495 AU -0.8m 18°53'49	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde	8150 Feb 16 18:33 8150 Feb 17 02:13 8150 Feb 20 14:32 8150 Mar 05 06:00 8150 Mar 08 08:42 8150 Mar 19 00:00 8150 Mar 29 05:45 8150 Mar 30 17:19 8150 Apr 02 01:09 8150 Apr 07 02:45	29°≈29'37 0° ₩ 5° ₩ 32'40 25° ₩ 12'17 0° Ψ 16° Ψ 08'53 0° ₩ 1° ₩ 35'42 3° ₩ 42'06 5° ₩ 50'21	1°02'07 1.45296 AU -0.7m
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj	8149 Mar 09 07:15 8149 Mar 09 19:03 8149 Mar 15 12:08 8149 Mar 25 10:30 8149 Apr 03 11:47 8149 Apr 03 11:13 8149 Apr 15 04:04 8149 Apr 16 11:05 8149 Apr 23 04:58 8149 Apr 26 13:19 8149 May 02 02:48	20° χ 16'49 21° χ 02'59 0° Υ 15° Υ 40'18 0° ႘ 29° Υ 57'48 16° ႘ 35'03 17° ႘ 58'10 21° ႘ 43'25 20° ႘ 38'40 14° ႘ 55'49	1°41'52 1.45495 AU -0.8m 18°53'49 3°23'50	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node	8150 Feb 16 18:33 8150 Feb 17 02:13 8150 Feb 20 14:32 8150 Mar 05 06:00 8150 Mar 08 08:42 8150 Mar 19 00:00 8150 Mar 29 05:45 8150 Mar 30 17:19 8150 Apr 02 01:09 8150 Apr 07 02:45 8150 Apr 10 19:16	29°≈29'37 0° ₩ 5° ₩32'40 25° ₩12'17 0° Ψ 16° Ψ08'53 0° ₩ 1° ₩35'42 3° ₩42'06 5° ₩50'21 4° ₩30'55	1°02'07 1.45296 AU -0.7m
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong	8149 Mar 09 07:15 8149 Mar 09 19:03 8149 Mar 15 12:08 8149 Mar 25 10:30 8149 Apr 03 11:47 8149 Apr 03 11:13 8149 Apr 15 04:04 8149 Apr 16 11:05 8149 Apr 23 04:58 8149 Apr 26 13:19 8149 May 02 02:48 8149 May 02 02:54	20° χ 16'49 21° χ 02'59 0° Υ 15° Υ 40'18 0° ႘ 29° Υ 57'48 16° ႘ 35'03 17° ႘ 58'10 21° ႘ 43'25 20° ႘ 38'40 14° ႘ 55'49 14° ႘ 55'30	1°41'52 1.45495 AU -0.8m 18°53'49 3°23'50 3°23'44	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set	8150 Feb 16 18:33 8150 Feb 17 02:13 8150 Feb 20 14:32 8150 Mar 05 06:00 8150 Mar 08 08:42 8150 Mar 19 00:00 8150 Mar 29 05:45 8150 Mar 30 17:19 8150 Apr 02 01:09 8150 Apr 07 02:45 8150 Apr 10 19:16 8150 Apr 15 02:15	29°≈29'37 0° ₩ 5° ₩ 32'40 25° ₩ 12'17 0° Ψ 16° Ψ 08'53 0° ₩ 1° ₩ 35'42 3° ₩ 42'06 5° ₩ 50'21 4° ₩ 30'55 30° ℝ Ψ	1°02'07 1.45296 AU -0.7m 19°43'03
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	8149 Mar 09 07:15 8149 Mar 09 19:03 8149 Mar 15 12:08 8149 Mar 25 10:30 8149 Apr 03 11:47 8149 Apr 03 11:13 8149 Apr 15 04:04 8149 Apr 16 11:05 8149 Apr 23 04:58 8149 Apr 26 13:19 8149 May 02 02:48 8149 May 02 02:54 8149 May 03 20:02	20° χ 16'49 21° χ 02'59 0° Υ 15° Υ 40'18 0° ႘ 29° Υ 57'48 16° ႘ 35'03 17° ႘ 58'10 21° ႘ 43'25 20° ႘ 38'40 14° ႘ 55'49 14° ႘ 55'30 12° ႘ 46'28	1°41'52 1.45495 AU -0.8m 18°53'49 3°23'50	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj	8150 Feb 16 18:33 8150 Feb 17 02:13 8150 Feb 20 14:32 8150 Mar 05 06:00 8150 Mar 08 08:42 8150 Mar 19 00:00 8150 Mar 29 05:45 8150 Mar 30 17:19 8150 Apr 02 01:09 8150 Apr 07 02:45 8150 Apr 10 19:16 8150 Apr 15 02:15 8150 Apr 16 04:29	29°≈29'37 0° ₩ 5° ₩ 32'40 25° ₩ 12'17 0° Ψ 16° Ψ 08'53 0° ₩ 1° ₩ 35'42 3° ₩ 42'06 5° ₩ 50'21 4° ₩ 30'55 30° ℝ Ψ 28° Ψ 33'33	1°02'07 1.45296 AU -0.7m 19°43'03
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8149 Mar 09 07:15 8149 Mar 09 19:03 8149 Mar 15 12:08 8149 Mar 25 10:30 8149 Apr 03 11:47 8149 Apr 03 11:13 8149 Apr 15 04:04 8149 Apr 16 11:05 8149 Apr 23 04:58 8149 Apr 26 13:19 8149 May 02 02:48 8149 May 02 02:54 8149 May 03 20:02 8149 May 07 15:57	20° χ 16'49 21° χ 02'59 0° Υ 15° Υ 40'18 0° ႘ 29° Υ 57'48 16° ႘ 35'03 17° ႘ 58'10 21° ႘ 43'25 20° ႘ 38'40 14° ႘ 55'49 14° ႘ 55'49 14° ႘ 55'30 12° ႘ 46'28 8° ႘ 37'56	1°41'52 1.45495 AU -0.8m 18°53'49 3°23'50 3°23'44	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong	8150 Feb 16 18:33 8150 Feb 17 02:13 8150 Feb 20 14:32 8150 Mar 05 06:00 8150 Mar 08 08:42 8150 Mar 19 00:00 8150 Mar 29 05:45 8150 Mar 30 17:19 8150 Apr 02 01:09 8150 Apr 07 02:45 8150 Apr 10 19:16 8150 Apr 15 02:15 8150 Apr 16 04:29 8150 Apr 16 03:26	29°≈29'37 0° ₩ 5° ₩ 32'40 25° ₩ 12'17 0° Ψ 16° Ψ 08'53 0° ₩ 1° ₩ 35'42 3° ₩ 42'06 5° ₩ 50'21 4° ₩ 30'55 30° ℝ Ψ 28° Ψ 33'33 28° Ψ 37'02	1°02'07 1.45296 AU -0.7m 19°43'03 3°18'33 3°18'23
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8149 Mar 09 07:15 8149 Mar 09 19:03 8149 Mar 15 12:08 8149 Mar 25 10:30 8149 Apr 03 11:47 8149 Apr 03 11:13 8149 Apr 15 04:04 8149 Apr 16 11:05 8149 Apr 23 04:58 8149 Apr 26 13:19 8149 May 02 02:48 8149 May 02 02:54 8149 May 03 20:02 8149 May 07 15:57 8149 May 14 02:28	20° χ 16'49 21° χ 02'59 0° Υ 15° Υ 40'18 0° ႘ 29° Υ 57'48 16° ႘ 35'03 17° ႘ 58'10 21° ႘ 43'25 20° ႘ 38'40 14° ႘ 55'49 14° ႘ 55'30 12° ႘ 46'28 8° ႘ 37'56 5° ႘ 51'06	1°41'52 1.45495 AU -0.8m 18°53'49 3°23'50 3°23'44	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	8150 Feb 16 18:33 8150 Feb 17 02:13 8150 Feb 20 14:32 8150 Mar 05 06:00 8150 Mar 08 08:42 8150 Mar 19 00:00 8150 Mar 29 05:45 8150 Mar 30 17:19 8150 Apr 02 01:09 8150 Apr 07 02:45 8150 Apr 10 19:16 8150 Apr 15 02:15 8150 Apr 16 04:29 8150 Apr 16 03:26 8150 Apr 17 06:55	29°≈29'37 0° ₩ 5° ₩ 32'40 25° ₩ 12'17 0° Ψ 16° Ψ08'53 0° ₩ 1° ₩ 35'42 3° ₩ 42'06 5° ₩ 50'21 4° ₩ 30'55 30° ℝ Ψ 28° Ψ 33'33 28° Ψ 37'02 27° Ψ 05'33	1°02'07 1.45296 AU -0.7m 19°43'03
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	8149 Mar 09 07:15 8149 Mar 09 19:03 8149 Mar 15 12:08 8149 Mar 25 10:30 8149 Apr 03 11:47 8149 Apr 03 11:13 8149 Apr 15 04:04 8149 Apr 16 11:05 8149 Apr 23 04:58 8149 Apr 26 13:19 8149 May 02 02:54 8149 May 02 02:54 8149 May 03 20:02 8149 May 07 15:57 8149 May 14 02:28 8149 May 19 23:28	20°\(\)\(\)\(1649\) 21°\(\)\(102'59\) 0°\(\)\(15°\(\)\(40'18\) 0°\(\)\(29°\(\)\(57'48\) 16°\(\)\(35'03\) 17°\(\)\(58'10\) 21°\(\)\(43'25\) 20°\(\)\(38'40\) 14°\(\)\(55'49\) 14°\(\)\(55'30\) 12°\(\)\(46'28\) 8°\(\)\(37'56\) 5°\(\)\(51'06\) 7°\(\)\(42'27\)	1°41'52 1.45495 AU -0.8m 18°53'49 3°23'50 3°23'44 0.65878 AU	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8150 Feb 16 18:33 8150 Feb 17 02:13 8150 Feb 20 14:32 8150 Mar 05 06:00 8150 Mar 08 08:42 8150 Mar 19 00:00 8150 Mar 29 05:45 8150 Mar 30 17:19 8150 Apr 02 01:09 8150 Apr 07 02:45 8150 Apr 10 19:16 8150 Apr 15 02:15 8150 Apr 16 04:29 8150 Apr 16 03:26 8150 Apr 17 06:55 8150 Apr 21 11:18	29°≈29'37 0° ₭ 5° ₭32'40 25° ₭12'17 0° Ŷ 16° Ŷ08'53 0° ₭ 1° ₭35'42 3° ₭42'06 5° ₭50'21 4° ₭30'55 30° ₭ Ŷ 28° Ŷ33'33 28° Ŷ37'02 27° Ŷ05'33 22° Ŷ15'55	1°02'07 1.45296 AU -0.7m 19°43'03 3°18'33 3°18'23
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8149 Mar 09 07:15 8149 Mar 09 19:03 8149 Mar 15 12:08 8149 Mar 25 10:30 8149 Apr 03 11:47 8149 Apr 03 11:13 8149 Apr 15 04:04 8149 Apr 16 11:05 8149 Apr 23 04:58 8149 Apr 26 13:19 8149 May 02 02:48 8149 May 02 02:54 8149 May 03 20:02 8149 May 07 15:57 8149 May 14 02:28 8149 May 19 23:28 8149 May 27 04:04	20°\(\partial 16'49\) 21°\(\partial 02'59\) 0°\(\partial 15'\) 40'\\ 29°\(\partial 5'\) 10°\(\partial 35'\) 17°\(\partial 58'\) 10°\(\partial 35'\) 12°\(\partial 43'\) 14°\(\partial 55'\) 14°\(\partial 55'\) 12°\(\partial 46'\) 8°\(\partial 55'\) 5°\(\partial 51'\) 6°\(\partial 42'\) 13°\(\partial 43'\) 13°\(\partial 43'\) 13°\(\partial 43'\) 13°\(\partial 43'\) 13°\(\partial 43'\) 13°\(\partial 40'\) 1	1°41'52 1.45495 AU -0.8m 18°53'49 3°23'50 3°23'44 0.65878 AU	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8150 Feb 16 18:33 8150 Feb 17 02:13 8150 Feb 20 14:32 8150 Mar 05 06:00 8150 Mar 08 08:42 8150 Mar 19 00:00 8150 Mar 29 05:45 8150 Mar 30 17:19 8150 Apr 02 01:09 8150 Apr 07 02:45 8150 Apr 10 19:16 8150 Apr 15 02:15 8150 Apr 16 04:29 8150 Apr 16 03:26 8150 Apr 17 06:55 8150 Apr 21 11:18 8150 Apr 27 11:08	29°≈29'37 0° ₩ 5° ₩ 32'40 25° ₩ 12'17 0° Ψ 16° Ψ08'53 0° ₩ 1° ₩ 35'42 3° ₩ 42'06 5° ₩ 50'21 4° ₩ 30'55 30° ℝ Ψ 28° Ψ 33'33 28° Ψ 37'02 27° Ψ 05'33 22° Ψ 15'55 19° Ψ 35'37	1°02'07 1.45296 AU -0.7m 19°43'03 3°18'33 3°18'23
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	8149 Mar 09 07:15 8149 Mar 09 19:03 8149 Mar 15 12:08 8149 Mar 25 10:30 8149 Apr 03 11:47 8149 Apr 03 11:13 8149 Apr 15 04:04 8149 Apr 16 11:05 8149 Apr 23 04:58 8149 Apr 26 13:19 8149 May 02 02:54 8149 May 02 02:54 8149 May 03 20:02 8149 May 07 15:57 8149 May 14 02:28 8149 May 19 23:28	20°\(\)\(\)\(1649\) 21°\(\)\(102'59\) 0°\(\)\(15°\(\)\(40'18\) 0°\(\)\(29°\(\)\(57'48\) 16°\(\)\(35'03\) 17°\(\)\(58'10\) 21°\(\)\(43'25\) 20°\(\)\(38'40\) 14°\(\)\(55'49\) 14°\(\)\(55'30\) 12°\(\)\(46'28\) 8°\(\)\(37'56\) 5°\(\)\(51'06\) 7°\(\)\(42'27\) 13°\(\)\(36'36\) 0°\(\)\(\)\(1	1°41'52 1.45495 AU -0.8m 18°53'49 3°23'50 3°23'44 0.65878 AU	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8150 Feb 16 18:33 8150 Feb 17 02:13 8150 Feb 20 14:32 8150 Mar 05 06:00 8150 Mar 08 08:42 8150 Mar 19 00:00 8150 Mar 29 05:45 8150 Mar 30 17:19 8150 Apr 02 01:09 8150 Apr 07 02:45 8150 Apr 10 19:16 8150 Apr 15 02:15 8150 Apr 16 04:29 8150 Apr 16 03:26 8150 Apr 17 06:55 8150 Apr 21 11:18	29°≈29'37 0° H 5° H 32'40 25° H 12'17 0° Y 16° Y 08'53 0° B 1° B 35'42 3° B 42'06 5° B 50'21 4° B 30'55 30° R Y 28° Y 33'33 28° Y 37'02 27° Y 05'33 22° Y 15'55 19° Y 35'37 24° Y 16'31	1°02'07 1.45296 AU -0.7m 19°43'03 3°18'33 3°18'23 0.67152 AU
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	8149 Mar 09 07:15 8149 Mar 09 19:03 8149 Mar 15 12:08 8149 Mar 25 10:30 8149 Apr 03 11:47 8149 Apr 03 11:13 8149 Apr 15 04:04 8149 Apr 16 11:05 8149 Apr 23 04:58 8149 Apr 26 13:19 8149 May 02 02:48 8149 May 02 02:54 8149 May 03 20:02 8149 May 07 15:57 8149 May 14 02:28 8149 May 19 23:28 8149 May 27 04:04 8149 Jun 09 10:13 8149 Jun 28 01:48	20°\(\)\(\)\(1649\) 21°\(\)\(102'59\) 0°\(\)\(15°\(\)\(40'18\) 0°\(\)\(29°\(\)\(57'48\) 16°\(\)\(35'03\) 17°\(\)\(58'10\) 21°\(\)\(43'25\) 20°\(\)\(38'40\) 14°\(\)\(55'49\) 14°\(\)\(55'30\) 12°\(\)\(46'28\) 8°\(\)\(37'56\) 5°\(\)\(51'06\) 7°\(\)\(42'27\) 13°\(\)\(36'36\) 0°\(\)\(\)\(00'\)	1°41'52 1.45495 AU -0.8m 18°53'49 3°23'50 3°23'44 0.65878 AU	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8150 Feb 16 18:33 8150 Feb 17 02:13 8150 Feb 20 14:32 8150 Mar 05 06:00 8150 Mar 08 08:42 8150 Mar 19 00:00 8150 Mar 29 05:45 8150 Mar 30 17:19 8150 Apr 02 01:09 8150 Apr 07 02:45 8150 Apr 10 19:16 8150 Apr 15 02:15 8150 Apr 16 04:29 8150 Apr 16 03:26 8150 Apr 17 06:55 8150 Apr 27 11:18 8150 Apr 27 11:08 8150 May 06 20:29 8150 May 09 13:51	29°≈29'37 0° ₩ 5° ₩ 32'40 25° ₩ 12'17 0° Ψ 16° Ψ08'53 0° ₩ 1° ₩ 35'42 3° ₩ 42'06 5° ₩ 50'21 4° ₩ 30'55 30° ℝ Ψ 28° Ψ 33'33 28° Ψ 37'02 27° Ψ 05'33 22° Ψ 15'55 19° Ψ 35'37 24° Ψ 16'31 26° Ψ 51'20	1°02'07 1.45296 AU -0.7m 19°43'03 3°18'33 3°18'23 0.67152 AU
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	8149 Mar 09 07:15 8149 Mar 09 19:03 8149 Mar 15 12:08 8149 Mar 25 10:30 8149 Apr 03 11:47 8149 Apr 03 11:13 8149 Apr 15 04:04 8149 Apr 16 11:05 8149 Apr 23 04:58 8149 Apr 26 13:19 8149 May 02 02:48 8149 May 02 02:54 8149 May 03 20:02 8149 May 07 15:57 8149 May 14 02:28 8149 May 19 23:28 8149 May 27 04:04 8149 Jun 09 10:13 8149 Jun 08 01:48 8149 Jul 02 01:44	20°\(\)\(\)\(1649\) 21°\(\)\(102'59\) 0°\(\)\(15°\(\)\(40'18\) 0°\(\)\(29°\(\)\(57'48\) 16°\(\)\(35'03\) 17°\(\)\(58'10\) 21°\(\)\(43'25\) 20°\(\)\(38'40\) 14°\(\)\(55'49\) 14°\(\)\(55'30\) 12°\(\)\(46'28\) 8°\(\)\(37'56\) 5°\(\)\(51'06\) 7°\(\)\(42'27\) 13°\(\)\(36'36\) 0°\(\)\(\)\(1	1°41'52 1.45495 AU -0.8m 18°53'49 3°23'50 3°23'44 0.65878 AU	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	8150 Feb 16 18:33 8150 Feb 17 02:13 8150 Feb 20 14:32 8150 Mar 05 06:00 8150 Mar 08 08:42 8150 Mar 19 00:00 8150 Mar 29 05:45 8150 Mar 30 17:19 8150 Apr 02 01:09 8150 Apr 07 02:45 8150 Apr 10 19:16 8150 Apr 15 02:15 8150 Apr 16 04:29 8150 Apr 16 03:26 8150 Apr 17 06:55 8150 Apr 27 11:18 8150 Apr 27 11:08 8150 May 06 20:29	29°≈29'37 0° € 5° € 32'40 25° € 12'17 0° ♀ 16° ♀ 08'53 0° ₺ 1° ₺ 35'42 3° ₺ 42'06 5° ₺ 50'21 4° ₺ 30'55 30° € ♀ 28° ♀ 33'33 28° ♀ 37'02 27° ♀ 05'33 22° ♀ 15'55 19° ♀ 35'37 24° ♀ 16'31 26° ♀ 51'20 0° ₺	1°02'07 1.45296 AU -0.7m 19°43'03 3°18'33 3°18'23 0.67152 AU
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	8149 Mar 09 07:15 8149 Mar 09 19:03 8149 Mar 15 12:08 8149 Mar 25 10:30 8149 Apr 03 11:47 8149 Apr 03 11:13 8149 Apr 15 04:04 8149 Apr 16 11:05 8149 Apr 23 04:58 8149 Apr 26 13:19 8149 May 02 02:48 8149 May 02 02:54 8149 May 03 20:02 8149 May 07 15:57 8149 May 14 02:28 8149 May 19 23:28 8149 May 27 04:04 8149 Jun 09 10:13 8149 Jun 28 01:48	20°\(\)\(\)\(1649\) 21°\(\)\(102'59\) 0°\(\)\(15°\(\)\(40'18\) 0°\(\)\(29°\(\)\(57'48\) 16°\(\)\(35'03\) 17°\(\)\(58'10\) 21°\(\)\(43'25\) 20°\(\)\(38'40\) 14°\(\)\(55'49\) 14°\(\)\(55'30\) 12°\(\)\(46'28\) 8°\(\)\(37'56\) 5°\(\)\(51'06\) 7°\(\)\(42'27\) 13°\(\)\(36'36\) 0°\(\)\(\)\(00'\)	1°41'52 1.45495 AU -0.8m 18°53'49 3°23'50 3°23'44 0.65878 AU	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	8150 Feb 16 18:33 8150 Feb 17 02:13 8150 Feb 20 14:32 8150 Mar 05 06:00 8150 Mar 08 08:42 8150 Mar 19 00:00 8150 Mar 29 05:45 8150 Mar 30 17:19 8150 Apr 02 01:09 8150 Apr 07 02:45 8150 Apr 10 19:16 8150 Apr 15 02:15 8150 Apr 16 04:29 8150 Apr 16 03:26 8150 Apr 17 06:55 8150 Apr 27 11:18 8150 Apr 27 11:08 8150 May 06 20:29 8150 May 09 13:51	29°≈29'37 0° ₩ 5° ₩32'40 25° ₩12'17 0° Ψ 16° Ψ08'53 0° ₩ 1° ₩35'42 3° ₩42'06 5° ₩50'21 4° ₩30'55 30° ℝ Ψ 28° Ψ33'33 28° Ψ37'02 27° Ψ05'33 22° Ψ15'55 19° Ψ35'37 24° Ψ16'31 26° Ψ51'20 0° ₩ 0° ₩	1°02'07 1.45296 AU -0.7m 19°43'03 3°18'33 3°18'23 0.67152 AU
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	8149 Mar 09 07:15 8149 Mar 09 19:03 8149 Mar 15 12:08 8149 Mar 25 10:30 8149 Apr 03 11:47 8149 Apr 03 11:13 8149 Apr 15 04:04 8149 Apr 16 11:05 8149 Apr 23 04:58 8149 Apr 26 13:19 8149 May 02 02:48 8149 May 02 02:54 8149 May 03 20:02 8149 May 07 15:57 8149 May 14 02:28 8149 May 19 23:28 8149 May 27 04:04 8149 Jun 09 10:13 8149 Jun 08 01:48 8149 Jul 02 01:44	20° ★ 16'49 21° ★ 02'59 0° ♀ 15° ♀ 40'18 0° ௧ 29° ♀ 57'48 16° ௧ 35'03 17° ௧ 58'10 21° ௧ 43'25 20° ௧ 38'40 14° ௧ 55'49 14° ௧ 55'30 12° ௧ 46'28 8° ௧ 37'56 5° ௧ 51'06 7° ௧ 42'27 13° ௧ 36'36 0° Ⅱ 0° ጨ 7° ℱ 23'25	1°41'52 1.45495 AU -0.8m 18°53'49 3°23'50 3°23'44 0.65878 AU 26°38'56	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	8150 Feb 16 18:33 8150 Feb 17 02:13 8150 Feb 20 14:32 8150 Mar 05 06:00 8150 Mar 08 08:42 8150 Mar 19 00:00 8150 Mar 29 05:45 8150 Mar 30 17:19 8150 Apr 02 01:09 8150 Apr 07 02:45 8150 Apr 10 19:16 8150 Apr 15 02:15 8150 Apr 16 04:29 8150 Apr 17 06:55 8150 Apr 27 11:08 8150 May 06 20:29 8150 May 09 13:51 8150 May 12 12:02	29°≈29'37 0° ₩ 5° ₩ 32'40 25° ₩ 12'17 0° Ψ 16° Ψ 08'53 0° ₩ 1° ₩ 35'42 3° ₩ 42'06 5° ₩ 50'21 4° ₩ 30'55 30° ℝ Ψ 28° Ψ 33'33 28° Ψ 37'02 27° Ψ 05'33 22° Ψ 15'55 19° Ψ 35'37 24° Ψ 16'31 26° Ψ 51'20 0° ₩ 0° Ⅲ 19° Ⅲ 46'32	1°02'07 1.45296 AU -0.7m 19°43'03 3°18'33 3°18'23 0.67152 AU
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	8149 Mar 09 07:15 8149 Mar 09 19:03 8149 Mar 15 12:08 8149 Mar 25 10:30 8149 Apr 03 11:47 8149 Apr 03 11:13 8149 Apr 15 04:04 8149 Apr 16 11:05 8149 Apr 23 04:58 8149 Apr 26 13:19 8149 May 02 02:48 8149 May 02 02:54 8149 May 03 20:02 8149 May 07 15:57 8149 May 14 02:28 8149 May 19 23:28 8149 May 27 04:04 8149 Jun 09 10:13 8149 Jun 08 01:48 8149 Jul 02 01:44	20° ★ 16'49 21° ★ 02'59 0° ♀ 15° ♀ 40'18 0° ௧ 29° ♀ 57'48 16° ௧ 35'03 17° ௧ 58'10 21° ௧ 43'25 20° ௧ 38'40 14° ௧ 55'49 14° ௧ 55'30 12° ௧ 46'28 8° ௧ 37'56 5° ௧ 51'06 7° ௧ 42'27 13° ௧ 36'36 0° Ⅱ 0° ጨ 7° ℱ 23'25	1°41'52 1.45495 AU -0.8m 18°53'49 3°23'50 3°23'44 0.65878 AU 26°38'56	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	8150 Feb 16 18:33 8150 Feb 17 02:13 8150 Feb 20 14:32 8150 Mar 05 06:00 8150 Mar 08 08:42 8150 Mar 19 00:00 8150 Mar 29 05:45 8150 Mar 30 17:19 8150 Apr 02 01:09 8150 Apr 07 02:45 8150 Apr 10 19:16 8150 Apr 15 02:15 8150 Apr 16 04:29 8150 Apr 16 03:26 8150 Apr 17 06:55 8150 Apr 21 11:18 8150 Apr 27 11:08 8150 May 06 20:29 8150 May 09 13:51 8150 May 12 12:02 8150 Jun 03 00:58	29°≈29'37 0° ₩ 5° ₩32'40 25° ₩12'17 0° Ψ 16° Ψ08'53 0° ₩ 1° ₩35'42 3° ₩42'06 5° ₩50'21 4° ₩30'55 30° ℝ Ψ 28° Ψ33'33 28° Ψ37'02 27° Ψ05'33 22° Ψ15'55 19° Ψ35'37 24° Ψ16'31 26° Ψ51'20 0° ₩ 0° ₩	1°02'07 1.45296 AU -0.7m 19°43'03 3°18'33 3°18'23 0.67152 AU
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	8149 Mar 09 07:15 8149 Mar 09 19:03 8149 Mar 15 12:08 8149 Mar 25 10:30 8149 Apr 03 11:47 8149 Apr 03 11:13 8149 Apr 15 04:04 8149 Apr 16 11:05 8149 Apr 23 04:58 8149 Apr 26 13:19 8149 May 02 02:48 8149 May 02 02:54 8149 May 03 20:02 8149 May 07 15:57 8149 May 14 02:28 8149 May 19 23:28 8149 May 27 04:04 8149 Jun 09 10:13 8149 Jun 28 01:48 8149 Jul 06 05:28	20°\(\)\(\)\(1649\) 21°\(\)\(102'59\) 0°\(\)\(15°\(\)\(40'18\) 0°\(\)\(29°\(\)\(57'48\) 16°\(\)\(35'03\) 17°\(\)\(58'10\) 21°\(\)\(34'25\) 20°\(\)\(38'40\) 14°\(\)\(55'49\) 14°\(\)\(55'49\) 14°\(\)\(55'30\) 12°\(\)\(46'28\) 8°\(\)\(37'56\) 5°\(\)\(55'106\) 7°\(\)\(42'27\) 13°\(\)\(36'36\) 0°\(\)\(1\) 0°\(\)\(23'25\) 15°\(\)\(27'11\)	1°41'52 1.45495 AU -0.8m 18°53'49 3°23'50 3°23'44 0.65878 AU 26°38'56 1.34419 AU -0°13'03	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	8150 Feb 16 18:33 8150 Feb 17 02:13 8150 Feb 20 14:32 8150 Mar 05 06:00 8150 Mar 08 08:42 8150 Mar 19 00:00 8150 Mar 29 05:45 8150 Mar 30 17:19 8150 Apr 02 01:09 8150 Apr 07 02:45 8150 Apr 10 19:16 8150 Apr 15 02:15 8150 Apr 16 04:29 8150 Apr 16 03:26 8150 Apr 17 06:55 8150 Apr 21 11:18 8150 Apr 27 11:08 8150 May 06 20:29 8150 May 09 13:51 8150 May 12 12:02 8150 Jun 03 00:58 8150 Jun 14 16:25	29°≈29'37 0° ₩ 5° ₩ 32'40 25° ₩ 12'17 0° Ψ 16° Ψ 08'53 0° ₩ 1° ₩ 35'42 3° ₩ 42'06 5° ₩ 50'21 4° ₩ 30'55 30° ℝ Ψ 28° Ψ 33'33 28° Ψ 37'02 27° Ψ 05'33 22° Ψ 15'55 19° Ψ 35'37 24° Ψ 16'31 26° Ψ 51'20 0° ₩ 0° Ⅲ 19° Ⅲ 46'32	1°02'07 1.45296 AU -0.7m 19°43'03 3°18'33 3°18'23 0.67152 AU 25°23'23
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	8149 Mar 09 07:15 8149 Mar 09 19:03 8149 Mar 15 12:08 8149 Mar 25 10:30 8149 Apr 03 11:47 8149 Apr 03 11:13 8149 Apr 15 04:04 8149 Apr 16 11:05 8149 Apr 23 04:58 8149 Apr 26 13:19 8149 May 02 02:48 8149 May 02 02:54 8149 May 03 20:02 8149 May 07 15:57 8149 May 14 02:28 8149 May 19 23:28 8149 May 19 23:28 8149 May 27 04:04 8149 Jun 09 10:13 8149 Jun 28 01:44 8149 Jul 06 05:28	20°\(\pi\)16'49 21°\(\pi\)02'59 0°\(\pa\) 15°\(\pa\)40'18 0°\(\pa\) 29°\(\pa\)57'48 16°\(\pa\)35'03 17°\(\pa\)58'10 21°\(\pa\)43'25 20°\(\pa\)38'40 14°\(\pa\)55'49 14°\(\pa\)55'30 12°\(\pa\)46'28 8°\(\pa\)37'56 5°\(\pa\)51'06 7°\(\pa\)42'27 13°\(\pa\)36'36 0°\(\pa\) 0°\(\pa\) 7°\(\pa\)23'25 15°\(\pa\)27'11 24°\(\pa\)49'12	1°41'52 1.45495 AU -0.8m 18°53'49 3°23'50 3°23'44 0.65878 AU 26°38'56 1.34419 AU -0°13'03	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	8150 Feb 16 18:33 8150 Feb 17 02:13 8150 Feb 20 14:32 8150 Mar 05 06:00 8150 Mar 08 08:42 8150 Mar 19 00:00 8150 Mar 29 05:45 8150 Mar 30 17:19 8150 Apr 02 01:09 8150 Apr 07 02:45 8150 Apr 10 19:16 8150 Apr 15 02:15 8150 Apr 16 04:29 8150 Apr 16 03:26 8150 Apr 17 06:55 8150 Apr 21 11:18 8150 Apr 27 11:08 8150 May 06 20:29 8150 May 09 13:51 8150 May 12 12:02 8150 Jun 03 00:58 8150 Jun 14 16:25 8150 Jun 18 08:25	29°≈29'37 0° ₭ 5° ₭32'40 25° ₭12'17 0° ♥ 16° ♥08'53 0° ₭ 1° ₭35'42 3° ₭42'06 5° ₭50'21 4° ₭30'55 30° ₭ ♥ 28° ♥33'33 28° ♥37'02 27° ♥05'33 22° ♥15'55 19° ₩35'37 24° ♥16'31 26° ♥51'20 0° ₭ 0° ₭ 19° ₭46'32 26° ₭31'43	1°02'07 1.45296 AU -0.7m 19°43'03 3°18'33 3°18'23 0.67152 AU 25°23'23
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	8149 Mar 09 07:15 8149 Mar 09 19:03 8149 Mar 15 12:08 8149 Mar 25 10:30 8149 Apr 03 11:47 8149 Apr 03 11:13 8149 Apr 15 04:04 8149 Apr 16 11:05 8149 Apr 23 04:58 8149 Apr 26 13:19 8149 May 02 02:48 8149 May 02 02:54 8149 May 03 20:02 8149 May 07 15:57 8149 May 14 02:28 8149 May 19 23:28 8149 May 19 23:28 8149 May 27 04:04 8149 Jun 09 10:13 8149 Jun 28 01:48 8149 Jul 06 05:28 8149 Jul 10 20:08 8149 Jul 10 20:52	20°\(\)\(\)\(1649\) 21°\(\)\(102'59\) 0°\(\)\(15°\(\)\(40'18\) 0°\(\)\(29°\(\)\(57'48\) 16°\(\)\(35'03\) 17°\(\)\(58'10\) 21°\(\)\(38'40\) 14°\(\)\(55'49\) 14°\(\)\(55'30\) 12°\(\)\(46'28\) 8°\(\)\(37'56\) 5°\(\)\(51'06\) 7°\(\)\(42'27\) 13°\(\)\(36'36\) 0°\(\)\(1\) 0°\(\)\(7\)\(\)\(27'11\) 24°\(\)\(24'\)\(35'5'59\)	1°41'52 1.45495 AU -0.8m 18°53'49 3°23'50 3°23'44 0.65878 AU 26°38'56 1.34419 AU -0°13'03	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	8150 Feb 16 18:33 8150 Feb 17 02:13 8150 Feb 20 14:32 8150 Mar 05 06:00 8150 Mar 08 08:42 8150 Mar 19 00:00 8150 Mar 29 05:45 8150 Mar 30 17:19 8150 Apr 02 01:09 8150 Apr 07 02:45 8150 Apr 10 19:16 8150 Apr 15 02:15 8150 Apr 16 04:29 8150 Apr 16 03:26 8150 Apr 17 06:55 8150 Apr 21 11:18 8150 Apr 27 11:08 8150 May 06 20:29 8150 May 09 13:51 8150 May 12 12:02 8150 Jun 03 00:58 8150 Jun 14 16:25 8150 Jun 18 08:25	29°≈29'37 0° ₭ 5° ₭32'40 25° ₭12'17 0° ♥ 16° ♥08'53 0° ₭ 1° ₭35'42 3° ₭42'06 5° ₭50'21 4° ₭30'55 30° ₭ ♥ 28° ♥33'33 28° ♥37'02 27° ♥05'33 22° ♥15'55 19° ₩35'37 24° ♥16'31 26° ♥51'20 0° ₭ 0° ₭ 19° ₭46'32 26° ₭31'43	1°02'07 1.45296 AU -0.7m 19°43'03 3°18'33 3°18'23 0.67152 AU 25°23'23
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong behind sun begin	8149 Mar 09 07:15 8149 Mar 09 19:03 8149 Mar 15 12:08 8149 Mar 25 10:30 8149 Apr 03 11:47 8149 Apr 03 11:13 8149 Apr 15 04:04 8149 Apr 16 11:05 8149 Apr 23 04:58 8149 Apr 26 13:19 8149 May 02 02:54 8149 May 02 02:54 8149 May 03 20:02 8149 May 07 15:57 8149 May 07 15:57 8149 May 19 23:28 8149 May 19 23:28 8149 May 27 04:04 8149 Jun 09 10:13 8149 Jun 09 10:13 8149 Jun 09 05:28 8149 Jul 06 05:28 8149 Jul 10 20:08 8149 Jul 10 20:52 8149 Jul 10 20:52 8149 Jul 10 17:27	20°\(\)\(\)\(1649\) 21°\(\)\(102'59\) 0°\(\)\(15°\(\)\(40'18\) 0°\(\)\(29°\(\)\(57'48\) 16°\(\)\(35'03\) 17°\(\)\(58'10\) 21°\(\)\(38'40\) 14°\(\)\(55'49\) 14°\(\)\(55'30\) 12°\(\)\(46'28\) 8°\(\)\(37'56\) 5°\(\)\(51'06\) 7°\(\)\(42'27\) 13°\(\)\(36'36\) 0°\(\)\(1\) 0°\(\)\(7'\)\(\)\(21'\) 13°\(\)\(36'36\) 0°\(\)\(1\) 0°\(\)\(7'\)\(\)\(22'\)\(11\) 24°\(\)\(29'52'59\) 24°\(\)\(35'17\)	1°41'52 1.45495 AU -0.8m 18°53'49 3°23'50 3°23'44 0.65878 AU 26°38'56 1.34419 AU -0°13'03	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	8150 Feb 16 18:33 8150 Feb 17 02:13 8150 Feb 20 14:32 8150 Mar 05 06:00 8150 Mar 08 08:42 8150 Mar 19 00:00 8150 Mar 29 05:45 8150 Mar 30 17:19 8150 Apr 02 01:09 8150 Apr 10 19:16 8150 Apr 10 19:16 8150 Apr 16 04:29 8150 Apr 16 03:26 8150 Apr 17 06:55 8150 Apr 21 11:18 8150 Apr 27 11:08 8150 Apr 27 11:08 8150 May 06 20:29 8150 May 09 13:51 8150 May 12 12:02 8150 Jun 03 00:58 8150 Jun 14 16:25 8150 Jun 18 08:25 8150 Jun 20 04:22	29°≈29'37 0° ★ 5° ₭32'40 25° ₭12'17 0° Ŷ 16° Ŷ08'53 0° ₭ 1° ₭35'42 3° ₺42'06 5° ₺50'21 4° ₺30'55 30° ₭ Ŷ 28° Ŷ33'33 28° Ŷ37'02 27° Ŷ05'33 22° Ŷ15'55 19° Ŷ35'37 24° Ŷ16'31 26° Ŷ51'20 0° ₺ 0° ₺ 19° ₺46'32 26° ₺31'43 0° ₺	1°02'07 1.45296 AU -0.7m 19°43'03 3°18'33 3°18'23 0.67152 AU 25°23'23 1.36256 AU -0°44'27
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end	8149 Mar 09 07:15 8149 Mar 09 19:03 8149 Mar 15 12:08 8149 Mar 25 10:30 8149 Apr 03 11:47 8149 Apr 03 11:13 8149 Apr 15 04:04 8149 Apr 16 11:05 8149 Apr 26 13:19 8149 Apr 26 13:19 8149 May 02 02:54 8149 May 02 02:54 8149 May 03 20:02 8149 May 07 15:57 8149 May 14 02:28 8149 May 19 23:28 8149 May 19 23:28 8149 May 27 04:04 8149 Jun 09 10:13 8149 Jun 09 10:13 8149 Jun 08 01:48 8149 Jul 06 05:28 8149 Jul 10 20:08 8149 Jul 10 20:52 8149 Jul 10 20:52 8149 Jul 10 17:27 8149 Jul 11 00:17	20°\(\cdot\)16'49 21°\(\cdot\)2'59 0°\(\cdot\) 15°\(\cdot\)40'18 0°\(\cdot\) 29°\(\cdot\)5'7'48 16°\(\cdot\)35'03 17°\(\cdot\)58'10 21°\(\cdot\)43'25 20°\(\cdot\)38'40 14°\(\cdot\)55'49 14°\(\cdot\)55'30 12°\(\cdot\)46'28 8°\(\cdot\)37'56 5°\(\cdot\)51'06 7°\(\cdot\)42'27 13°\(\cdot\)36'36 0°\(\cdot\) 0°\(\sigma\) 7°\(\sigma\)2'5' 15°\(\sigma\)2'11 24°\(\sigma\)4'12 24°\(\sigma\)4'3	1°41'52 1.45495 AU -0.8m 18°53'49 3°23'50 3°23'44 0.65878 AU 26°38'56 1.34419 AU -0°13'03	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	8150 Feb 16 18:33 8150 Feb 17 02:13 8150 Feb 20 14:32 8150 Mar 05 06:00 8150 Mar 08 08:42 8150 Mar 19 00:00 8150 Mar 29 05:45 8150 Mar 30 17:19 8150 Apr 02 01:09 8150 Apr 10 19:16 8150 Apr 10 19:16 8150 Apr 16 04:29 8150 Apr 16 03:26 8150 Apr 17 06:55 8150 Apr 21 11:18 8150 Apr 27 11:08 8150 Apr 27 11:08 8150 May 06 20:29 8150 May 09 13:51 8150 May 12 12:02 8150 Jun 03 00:58 8150 Jun 14 16:25 8150 Jun 18 08:25 8150 Jun 20 04:22	29°≈29'37 0° ★ 5° ₭32'40 25° ₭12'17 0° Ŷ 16° Ŷ08'53 0° ₭ 1° ₭35'42 3° ₺42'06 5° ₺50'21 4° ₺30'55 30° ₭ Ŷ 28° Ŷ33'33 28° Ŷ37'02 27° Ŷ05'33 22° Ŷ15'55 19° Ŷ35'37 24° Ŷ16'31 26° Ŷ51'20 0° ₺ 0° ₶ 19° ₶46'32 26° ₶31'43 0° \$ 8° \$18'39	1°02'07 1.45296 AU -0.7m 19°43'03 3°18'33 3°18'23 0.67152 AU 25°23'23 1.36256 AU -0°44'27
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end	8149 Mar 09 07:15 8149 Mar 09 19:03 8149 Mar 15 12:08 8149 Mar 25 10:30 8149 Apr 03 11:47 8149 Apr 03 11:13 8149 Apr 15 04:04 8149 Apr 16 11:05 8149 Apr 26 13:19 8149 May 02 02:54 8149 May 02 02:54 8149 May 03 20:02 8149 May 07 15:57 8149 May 14 02:28 8149 May 19 23:28 8149 May 19 23:28 8149 May 19 23:28 8149 May 27 04:04 8149 Jun 09 10:13 8149 Jun 09 10:13 8149 Jun 02 01:44 8149 Jul 02 01:44 8149 Jul 02 00:52 8149 Jul 10 20:08 8149 Jul 10 20:52 8149 Jul 10 17:27 8149 Jul 11 00:17 8149 Jul 12 03:14	20°\(\cdot\)16'49 21°\(\cdot\)02'59 0°\(\cdot\) 15°\(\cdot\)40'18 0°\(\cdot\) 29°\(\cdot\)5'7'48 16°\(\cdot\)35'03 17°\(\cdot\)5'8'10 21°\(\cdot\)43'25 20°\(\cdot\)38'40 14°\(\cdot\)55'49 14°\(\cdot\)55'30 12°\(\cdot\)46'28 8°\(\cdot\)37'56 5°\(\cdot\)51'06 7°\(\cdot\)42'27 13°\(\cdot\)36'36 0°\(\cdot\)1 0°\(\sigma\) 7°\(\sigma\)23'25 15°\(\sigma\)27'11 24°\(\sigma\)43 27°\(\sigma\)30'57	1°41'52 1.45495 AU -0.8m 18°53'49 3°23'50 3°23'44 0.65878 AU 26°38'56 1.34419 AU -0°13'03	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	8150 Feb 16 18:33 8150 Feb 17 02:13 8150 Feb 20 14:32 8150 Mar 05 06:00 8150 Mar 08 08:42 8150 Mar 19 00:00 8150 Mar 29 05:45 8150 Mar 30 17:19 8150 Apr 02 01:09 8150 Apr 10 19:16 8150 Apr 10 02:15 8150 Apr 16 04:29 8150 Apr 16 03:26 8150 Apr 17 06:55 8150 Apr 21 11:18 8150 Apr 27 11:08 8150 Apr 27 11:08 8150 May 06 20:29 8150 May 09 13:51 8150 May 12 12:02 8150 Jun 03 00:58 8150 Jun 14 16:25 8150 Jun 18 08:25 8150 Jun 20 04:22 8150 Jun 24 10:32 8150 Jun 24 10:32	29°≈29'37 0° € 5° € 32'40 25° € 12'17 0° ♥ 16° ♥ 08'53 0° ₺ 1° ₺ 35'42 3° ₺ 42'06 5° ₺ 50'21 4° ₺ 30'55 30° ₭ ♥ 28° ♥ 33'33 28° ♥ 37'02 27° ♥ 05'33 22° ♥ 15'55 19° ♥ 35'37 24° ♥ 16'31 26° ♥ 51'20 0° ₺ 0° Ⅱ 19° Ⅱ 46'32 26° Ⅱ 31'43 0° ₺ 8° ₺ 18'39 8° ₺ 31'57	1°02'07 1.45296 AU -0.7m 19°43'03 3°18'33 3°18'23 0.67152 AU 25°23'23 1.36256 AU -0°44'27
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end asc. node	8149 Mar 09 07:15 8149 Mar 09 19:03 8149 Mar 15 12:08 8149 Mar 25 10:30 8149 Apr 03 11:47 8149 Apr 03 11:13 8149 Apr 15 04:04 8149 Apr 16 11:05 8149 Apr 26 13:19 8149 May 02 02:48 8149 May 02 02:54 8149 May 02 02:54 8149 May 07 15:57 8149 May 14 02:28 8149 May 19 23:28 8149 May 19 23:28 8149 May 27 04:04 8149 Jun 09 10:13 8149 Jun 09 10:13 8149 Jun 02 01:44 8149 Jul 06 05:28 8149 Jul 10 20:08 8149 Jul 10 20:08 8149 Jul 10 17:27 8149 Jul 11 00:17 8149 Jul 12 03:14 8149 Jul 13 07:41	20°\(\cdot\)16'49 21°\(\cdot\)2'59 0°\(\cdot\) 15°\(\cdot\)40'18 0°\(\cdot\) 29°\(\cdot\)5'7'48 16°\(\cdot\)35'03 17°\(\cdot\)5'8'10 21°\(\cdot\)43'25 20°\(\cdot\)38'40 14°\(\cdot\)55'49 14°\(\cdot\)55'30 12°\(\cdot\)42'27 13°\(\cdot\)43'55' 5°\(\cdot\)5'106 7°\(\cdot\)42'27 13°\(\cdot\)36'36 0°\(\cdot\) 0°\(\cdot\) 7°\(\cdot\)22'25 15°\(\cdot\)27'11 24°\(\cdot\)43 27°\(\cdot\)30'57 0°\(\cdot\)	1°41'52 1.45495 AU -0.8m 18°53'49 3°23'50 3°23'44 0.65878 AU 26°38'56 1.34419 AU -0°13'03	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	8150 Feb 16 18:33 8150 Feb 17 02:13 8150 Feb 20 14:32 8150 Mar 05 06:00 8150 Mar 08 08:42 8150 Mar 19 00:00 8150 Mar 29 05:45 8150 Mar 30 17:19 8150 Apr 02 01:09 8150 Apr 10 19:16 8150 Apr 15 02:15 8150 Apr 16 04:29 8150 Apr 16 03:26 8150 Apr 17 06:55 8150 Apr 21 11:18 8150 Apr 27 11:08 8150 Apr 27 11:08 8150 May 06 20:29 8150 May 09 13:51 8150 May 12 12:02 8150 Jun 03 00:58 8150 Jun 14 16:25 8150 Jun 18 08:25 8150 Jun 24 10:32 8150 Jun 24 10:32 8150 Jun 24 10:32 8150 Jun 29 00:15	29°≈29'37 0° ★ 5° ₭32'40 25° ₭12'17 0° Ŷ 16° Ŷ08'53 0° ₭ 1° ₭35'42 3° ₺42'06 5° ₺50'21 4° ₺30'55 30° ₭ Ŷ 28° Ŷ33'33 28° Ŷ37'02 27° Ŷ05'33 22° Ŷ15'55 19° Ŷ35'37 24° Ŷ16'31 26° Ŷ51'20 0° ₺ 0° Ⅱ 19° Ⅱ46'32 26° Ⅱ31'43 0° \$ 8° \$18'39 8° \$31'57 17° \$32'14	1°02'07 1.45296 AU -0.7m 19°43'03 3°18'33 3°18'23 0.67152 AU 25°23'23 1.36256 AU -0°44'27
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end asc. node	8149 Mar 09 07:15 8149 Mar 09 19:03 8149 Mar 15 12:08 8149 Mar 25 10:30 8149 Apr 03 11:47 8149 Apr 03 11:13 8149 Apr 15 04:04 8149 Apr 16 11:05 8149 Apr 26 13:19 8149 May 02 02:48 8149 May 02 02:54 8149 May 02 02:54 8149 May 07 15:57 8149 May 14 02:28 8149 May 19 23:28 8149 May 19 23:28 8149 May 27 04:04 8149 Jun 09 10:13 8149 Jun 09 10:13 8149 Jun 02 01:44 8149 Jul 06 05:28 8149 Jul 10 20:08 8149 Jul 10 20:08 8149 Jul 10 17:27 8149 Jul 11 00:17 8149 Jul 12 03:14 8149 Jul 13 07:41 8149 Jul 13 07:41 8149 Jul 18 08:11	20°\(\)16'49 21°\(\)402'59 0°\(\)7 15°\(\)40'18 0°\(\)29°\(\)5'7'48 16°\(\)35'03 17°\(\)5'8'10 21°\(\)43'25 20°\(\)38'40 14°\(\)55'49 14°\(\)55'30 12°\(\)44'227 13°\(\)46'28 8°\(\)37'56 5°\(\)51'06 7°\(\)42'27 13°\(\)36'36 0°\(\)1 0°\(\)9 7°\(\)923'25 15°\(\)927'11 24°\(\)94'12 24°\(\)935'17 25°\(\)910'43 27°\(\)930'57 0°\(\)0°\(\)33'20	1°41'52 1.45495 AU -0.8m 18°53'49 3°23'50 3°23'44 0.65878 AU 26°38'56 1.34419 AU -0°13'03 0°13'02	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	8150 Feb 16 18:33 8150 Feb 17 02:13 8150 Feb 20 14:32 8150 Mar 05 06:00 8150 Mar 08 08:42 8150 Mar 19 00:00 8150 Mar 29 05:45 8150 Mar 30 17:19 8150 Apr 02 01:09 8150 Apr 10 19:16 8150 Apr 15 02:15 8150 Apr 16 04:29 8150 Apr 16 03:26 8150 Apr 17 06:55 8150 Apr 21 11:18 8150 Apr 27 11:08 8150 Apr 27 11:08 8150 May 09 13:51 8150 May 12 12:02 8150 Jun 03 00:58 8150 Jun 14 16:25 8150 Jun 18 08:25 8150 Jun 24 10:32 8150 Jun 24 13:12 8150 Jun 29 00:15 8150 Jun 29 00:15 8150 Jun 29 00:15	29°≈29'37 0° ★ 5° ₭32'40 25° ₭12'17 0° Ŷ 16° Ŷ08'53 0° ₭ 1° ₭35'42 3° ₺42'06 5° ₺50'21 4° ₺30'55 30° ₭ Ŷ 28° Ŷ33'33 28° Ŷ37'02 27° Ŷ05'33 22° Ŷ15'55 19° Ŷ35'37 24° Ŷ16'31 26° Ŷ51'20 0° ₺ 0° Ⅱ 19° Ⅱ46'32 26° Ⅱ31'43 0° \$ 8° \$18'39 8° \$31'57 17° \$32'14 24° \$948'14	1°02'07 1.45296 AU -0.7m 19°43'03 3°18'33 3°18'23 0.67152 AU 25°23'23 1.36256 AU -0°44'27
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end asc. node evening rise	8149 Mar 09 07:15 8149 Mar 09 19:03 8149 Mar 15 12:08 8149 Mar 25 10:30 8149 Apr 03 11:47 8149 Apr 03 11:13 8149 Apr 15 04:04 8149 Apr 15 04:04 8149 Apr 26 13:19 8149 Apr 26 13:19 8149 May 02 02:48 8149 May 02 02:54 8149 May 03 20:02 8149 May 04 15:57 8149 May 14 02:28 8149 May 19 23:28 8149 May 19 23:28 8149 May 19 23:28 8149 May 27 04:04 8149 Jun 09 10:13 8149 Jun 09 10:13 8149 Jun 06 05:28 8149 Jul 02 01:44 8149 Jul 06 05:28 8149 Jul 10 20:08 8149 Jul 10 17:27 8149 Jul 10 00:17 8149 Jul 11 00:17 8149 Jul 13 07:41 8149 Jul 18 08:11 8149 Jul 18 08:11	20° ★ 16'49 21° ★ 02'59 0° ❤ 15° ❤ 40'18 0° ₺ 29° ❤ 57'48 16° ₺ 35'03 17° ₺ 58'10 21° ₺ 43'25 20° ₺ 38'40 14° ₺ 55'49 14° ₺ 55'30 12° ₺ 46'28 8° ₺ 37'56 5° ₺ 51'06 7° ₺ 42'27 13° ₺ 36'36 0° Ⅱ 0° © 7° © 23'25 15° © 27'11 24° © 52'59 24° © 35'17 25° © 10'43 27° © 30'57 0° 凡 10° 凡 333'20 0° 順	1°41'52 1.45495 AU -0.8m 18°53'49 3°23'50 3°23'44 0.65878 AU 26°38'56 1.34419 AU -0°13'03 0°13'02	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise	8150 Feb 16 18:33 8150 Feb 17 02:13 8150 Feb 20 14:32 8150 Mar 05 06:00 8150 Mar 08 08:42 8150 Mar 19 00:00 8150 Mar 29 05:45 8150 Mar 30 17:19 8150 Apr 02 01:09 8150 Apr 10 19:16 8150 Apr 15 02:15 8150 Apr 16 04:29 8150 Apr 16 03:26 8150 Apr 17 06:55 8150 Apr 21 11:18 8150 Apr 27 11:08 8150 Apr 27 11:08 8150 May 06 20:29 8150 May 09 13:51 8150 May 12 12:02 8150 Jun 03 00:58 8150 Jun 14 16:25 8150 Jun 18 08:25 8150 Jun 24 10:32 8150 Jun 24 10:32 8150 Jun 24 13:12 8150 Jun 29 00:15 8150 Jul 02 13:46 8150 Jul 05 03:49	29°≈29'37 0° ★ 5° ₭32'40 25° ₭12'17 0° Ŷ 16° Ŷ08'53 0° ₭ 1° ₭35'42 3° ₺42'06 5° ₺50'21 4° ₺30'55 30° ዪ Ŷ 28° Ŷ33'33 28° Ŷ37'02 27° Ŷ05'33 22° Ŷ15'55 19° Ŷ35'37 24° Ŷ16'31 26° Ŷ51'20 0° ₺ 0° Ⅱ 19° Ⅱ46'32 26° Ⅱ31'43 0° ⑤ 8° ⑤18'39 8° ⑥31'57 17° ⑥32'14 24° ⑤48'14 0° €	1°02'07 1.45296 AU -0.7m 19°43'03 3°18'33 3°18'23 0.67152 AU 25°23'23 1.36256 AU -0°44'27 0°44'06

	0150 4 01 01 40	200 012156			0151 1 1 12 00 57	00 01 515 5	
evening set	8150 Aug 01 01:40	28° Ω 13'56		evening set	8151 Jul 13 09:57	9° Ω 15'55	
desc. node	8150 Aug 02 19:39	27° Ω 49'09	2011122	desc. node	8151 Jul 20 16:45	5° Ω 38'01	001 (150
inferior conj	8150 Aug 10 00:25	24° Ω 12'57		inferior conj	8151 Jul 21 14:59	4° Ω 59'05	
minimum elong	8150 Aug 09 18:24	24° Ω 22'10	2°09'12	minimum elong	8151 Jul 21 14:17	5° Ω 00'19	
min. Earth dist.	8150 Aug 12 01:20	22° Ω 58′10	0.55228 AU	min. Earth dist.	8151 Jul 24 16:20	2° Ω 50′19	0.56633 AU
morning rise	8150 Aug 18 09:12	19° Ω 52'08		morning rise	8151 Jul 29 15:20	0° Ω 01'58	
direct	8150 Aug 22 22:29	19° Ω 06′30			8151 Jul 29 17:13	30°ષ્ટ્રજી	
morning max el	8150 Sep 05 17:40	25° Ω 56'17	24°27'22	direct	8151 Aug 04 01:06	28° © 52'21	
	8150 Sep 09 14:15	O°My			8151 Aug 09 09:48	0 \circ Ω	
asc. node	8150 Sep 24 23:49	23° m 51'00		morning max el	8151 Aug 18 07:21	6° Ω 14'35	26°04'09
	8150 Sep 28 02:19	0∘ ⊽			8151 Sep 04 17:50	0° m y	
morning set	8150 Oct 01 00:16	6° £ 05'05		asc. node	8151 Sep 11 20:48	13° m 22'02	
				morning set	8151 Sep 15 11:18	20° m 50'23	
superior conj	8150 Oct 07 21:38	21° ≏ 04'05	1°38'01		8151 Sep 19 16:28	0∘ ত	
minimum elong	8150 Oct 07 20:28	20° ≏ 57'43	1°38'01				
max. Earth dist.	8150 Oct 09 20:28	25° ≏ 18'21	1.32715 AU	superior conj	8151 Sep 22 08:37	5° ≙ 54'42	1°28'51
	8150 Oct 12 01:10	0° M.		minimum elong	8151 Sep 22 06:42	5° ≙ 44'07	1°28'40
evening rise	8150 Oct 15 05:37	6° ™ 36'54		max. Earth dist.	8151 Sep 23 03:51	7° ≏ 40'58	1.31963 AU
	8150 Oct 27 21:48	0° ∡ ¹		evening rise	8151 Sep 29 07:46	20° ♀ 59'50	
desc. node	8150 Oct 29 18:28	3° ₹ 01'31		•	8151 Oct 03 18:30	0° M .	
evening max el	8150 Nov 17 15:08	27° ∡ ¹29'56	27°28'56	desc. node	8151 Oct 16 15:33	22° M 18'37	
C	8150 Nov 20 11:29	8°0			8151 Oct 22 01:55	0° ∡ ¹	
retrograde	8150 Dec 01 08:05	4° ⋜ 48'19		evening max el	8151 Oct 30 23:00	10° ₹ '07'02	27°16'14
evening set	8150 Dec 08 09:21	2°る17'02		retrograde	8151 Nov 13 19:30	17° ∡ 19'13	
<i>5</i> · · · ·	8150 Dec 11 03:45	30°R. ✓		evening set	8151 Nov 20 21:08	15° х ⁴03'08	
min. Earth dist.	8150 Dec 12 02:49		0.63415 AU	min. Earth dist.	8151 Nov 24 13:39	12° ∡ 15'58	0.61463 AU
inferior conj	8150 Dec 14 18:53	26° ₹ 24'45		inferior conj	8151 Nov 27 14:47	9° х ⁷ 33'57	
minimum elong	8150 Dec 14 23:20	26° 🖈 13'34		minimum elong	8151 Nov 27 21:18		3°29'02
morning rise	8150 Dec 21 15:13	21°×708'35	2 1731	morning rise	8151 Dec 04 23:41	4° × 736'41	3 27 02
asc. node	8150 Dec 21 23:16	21°× 00'33		direct	8151 Dec 07 05:15	4°×715'43	
direct	8150 Dec 24 00:19	20° × ⁷ 41'18		asc. node	8151 Dec 07 03:13 8151 Dec 08 20:20	4° × 13° 43 4° × 127'15	
morning max el	8150 Dec 30 14:11	24° × 05'26	17°48'19	morning max el	8151 Dec 08 20:20 8151 Dec 14 05:57	7° × ⁷ 48'24	17°53'39
morning max ci	8151 Jan 04 08:52	24 × 03 20 0°る	1/ 4019	morning max ci	8151 Dec 28 14:49	7 x 40 24 0°る	17 33 39
morning set	8151 Jan 15 22:45	0 3 19° ろ 08'01		morning set	8151 Dec 29 22:45	2°る25'03	
morning set	8151 Jan 22 06:33	0°≈		morning set	6131 Dec 29 22.43	2 023 03	
desc. node	8151 Jan 25 17:43	0 ≈ 5°≈49'52		aumariar aani	8152 Jan 09 12:57	21° る 19'13	0022124
desc. node	8131 Jan 23 17.43	3 ≈4932		superior conj			0°22'26
	0151 1 20 07 22	10001141	0010122	minimum elong	8152 Jan 09 14:54	21° る 27'36	0-22-26
superior conj	8151 Jan 28 06:32	10°≈01'41		desc. node	8152 Jan 12 14:41	26° පි 34'31	
minimum elong	8151 Jan 28 04:34	9°≈53'36		P 4 F 4	8152 Jan 14 15:38	0° ≈	1 42071 411
max. Earth dist.	8151 Feb 03 08:30		1.44388 AU	max. Earth dist.	8152 Jan 16 23:09	3°≈49'33	1.42871 AU
	8151 Feb 09 18:50	0°) {		evening rise	8152 Jan 23 11:12	14°≈15'50	
evening rise	8151 Feb 12 17:03	4°) €31'17			8152 Feb 02 18:38	0°) {	222222
	8151 Mar 01 19:23	0°Υ		evening max el	8152 Feb 24 13:47	28°) 55′15	22°00'27
evening max el	8151 Mar 13 18:10	15° Y 14'38	20°46'30		8152 Feb 25 16:17	0°Υ ••••••••••	
asc. node	8151 Mar 19 22:16	19° ℃ 43'30		retrograde	8152 Mar 04 22:40	4° Υ 28'21	
retrograde	8151 Mar 22 01:15	20° Y 06'36		asc. node	8152 Mar 05 19:22	4° Y ′24'33	
evening set	8151 Mar 26 03:05	18° Ƴ 32'00		evening set	8152 Mar 09 11:04	2° Y 38′26	
inferior conj	8151 Mar 31 10:33	12° Y 22'11	3°01'37		8152 Mar 12 00:26	30° ₹	
minimum elong	8151 Mar 31 08:42	12° Y 28'31	3°01'15	inferior conj	8152 Mar 14 18:50	26°) 18'41	2°34'45
min. Earth dist.	8151 Mar 31 23:15	11° Y 38′24	0.67983 AU	minimum elong	8152 Mar 14 16:36	26° ∺ 26'28	2°34'10
morning rise	8151 Apr 05 14:06	6° ℃ 07'05		min. Earth dist.	8152 Mar 14 18:53	26° ¥ 18'30	0.68377 AU
direct	8151 Apr 11 00:53	3° Y 41'57		morning rise	8152 Mar 19 21:57	20° 米 07'35	
morning max el	8151 Apr 21 22:46	10° ℃ 13'11	23°55'56	direct	8152 Mar 24 18:41	18° 米 02'59	
desc. node	8151 Apr 23 17:27	12° Y 05′30		morning max el	8152 Apr 03 09:33	23°) 42′37	22°26'33
	8151 May 07 14:49	9° 8			8152 Apr 08 22:45	0° Y	
	8151 May 26 18:22	Π °0		desc. node	8152 Apr 09 14:24	0° Y 48'45	
morning set	8151 May 27 10:28	1° Ⅱ 08'53			8152 Apr 30 00:15	$0^{\circ}S$	
max. Earth dist.	8151 May 31 04:48	7° Ⅱ 43'04	1.38418 AU	morning set	8152 May 07 02:34	11° 8 17'33	
				max. Earth dist.	8152 May 12 02:22	19° 8 35'08	1.40665 AU
superior conj	8151 Jun 07 12:24	21° Ⅱ 09′19			8152 May 18 02:37	Π °0	
minimum elong	8151 Jun 07 17:04	21° Ⅱ 31′24	1°15'24				
	8151 Jun 12 02:37	0 \circ \odot		superior conj	8152 May 19 21:26	3° Ⅱ 11′04	-1°44'24
asc. node	8151 Jun 15 21:17	7° 5 24'40		minimum elong	8152 May 20 03:13	3°Ⅱ37'06	1°43'55
evening rise	8151 Jun 16 12:37	8° © 39'56		evening rise	8152 May 30 01:27	22° I 100'15	
	8151 Jun 28 13:21	$0^{\circ}\Omega$		asc. node	8152 Jun 01 18:19	27° Ⅱ 03'54	
evening max el	8151 Jul 02 21:28	5° Ω 14'35	18°55'35		8152 Jun 03 08:29	0 \circ \odot	
retrograde	8151 Jul 11 10:45	9° Ω 28'27		evening max el	8152 Jun 15 03:23	17° 5 44'42	18°20'50

. 1	0152 1 22 12 00	210625146			0152 I 12 01 51	2005 TT	
retrograde	8152 Jun 22 12:00	21°525'46			8153 Jun 13 01:51	30°RⅡ	2022111
evening set	8152 Jun 24 18:03	21°505'56	1017147	inferior conj	8153 Jun 14 11:51	28° Ⅱ 39'58	2°22'11
inferior conj	8152 Jul 02 03:15	16°528'38	1°16'47	minimum elong	8153 Jun 14 14:53	28°II32'39	2°21'15
minimum elong	8152 Jul 02 05:41	16°923'35	1°15'48	min. Earth dist.	8153 Jun 17 16:50	25° Ⅱ 36'18	0.60852 AU
min. Earth dist.	8152 Jul 05 12:43	13° © 41'06	0.58621 AU	morning rise	8153 Jun 21 07:25	22° I I43'54	
desc. node	8152 Jul 06 13:49	12° © 53'18		desc. node	8153 Jun 23 10:50	21° I I32'44	
morning rise	8152 Jul 09 14:04	10° © 57'12		direct	8153 Jun 27 22:13	20° Ⅲ 32'55	
direct	8152 Jul 15 17:34	9° © 16'59		morning max el	8153 Jul 12 05:17	28° Ⅱ 31'33	27°51'55
morning max el	8152 Jul 30 02:51	17° © 01'34	27°15'48		8153 Jul 13 15:47	0 \circ	
	8152 Aug 09 19:57	0 \circ Ω			8153 Aug 03 16:06	$0^{\circ}\Omega$	
	8152 Aug 27 04:49	0° m)		morning set	8153 Aug 14 00:15	19° Ω 47'17	
asc. node	8152 Aug 28 17:45	3° m 09'31		asc. node	8153 Aug 15 14:42	23° Ω 08′10	
morning set	8152 Aug 29 19:53	5° Mp 26′08			8153 Aug 18 19:29	0° m þ	
				max. Earth dist.	8153 Aug 19 23:26	2° m 32'43	1.31824 AU
superior conj	8152 Sep 05 20:26	20° Mp 44'26	1°14'28				
minimum elong	8152 Sep 05 18:11	20° Mp 31'58	1°14'06	superior conj	8153 Aug 21 07:19	5° Mg 28′02	0°55'16
max. Earth dist.	8152 Sep 05 14:08	20° Mp 09'29	1.31666 AU	minimum elong	8153 Aug 21 05:13	5° Mp 16′29	0°54'48
	8152 Sep 10 01:00	0∘ ⊽		evening rise	8153 Aug 28 01:38	20° m 17'27	
evening rise	8152 Sep 12 15:08	5° ₽ 35'24			8153 Sep 01 18:03	0∘ ⊽	
	8152 Sep 25 10:02	0° M		desc. node	8153 Sep 19 09:44	28° ≏ 17'38	
desc. node	8152 Oct 02 12:39	10°M50'00			8153 Sep 20 21:28	0° M ₊	
evening max el	8152 Oct 12 00:08	21°M56'13	26°29'31	evening max el	8153 Sep 23 17:05	2°M54'22	25°12'27
retrograde	8152 Oct 25 22:04	29°ML02'33		retrograde	8153 Oct 07 14:25	9° M ₅55'10	
evening set	8152 Nov 01 14:37	27°M12'07		evening set	8153 Oct 13 09:04	8°ML38'57	
min. Earth dist.	8152 Nov 05 13:36	24°M37'23	0.59379 AU	min. Earth dist.	8153 Oct 18 04:44	5°M58'32	0.57374 AU
inferior conj	8152 Nov 08 18:28	22°M09'00	-4°35'32	inferior conj	8153 Oct 21 02:50	4°ML00'53	-5°21'58
minimum elong	8152 Nov 09 01:40	21°M55'03	4°33'41	minimum elong	8153 Oct 21 07:25	3°M53'08	5°21'22
morning rise	8152 Nov 16 15:03	17° M 33'53		Z .	8153 Oct 28 15:11	30° Ŗ Ω	
direct	8152 Nov 18 20:51	17° ™ 16'04		morning rise	8153 Oct 29 08:06	29° ≏ 48'47	
asc. node	8152 Nov 24 17:20	19°M25'07		direct	8153 Oct 31 18:41	29° £ 31'18	
morning max el	8152 Nov 26 16:37	21°M06'05	18°18'35	arrott	8153 Nov 03 19:31	0°M	
morning man er	8152 Dec 03 11:04	0° ₹	10 1030	morning max el	8153 Nov 09 18:34	3°M48'35	19°04'47
morning set	8152 Dec 12 12:37	16°×720'10		asc. node	8153 Nov 11 14:19	5°M43'05	1, 0,
morning sec	8152 Dec 19 18:13	0°ਰ		use. Houe	8153 Nov 26 03:44	0° ∡ 7	
	0132 Dec 17 10.13	٠ ٠		morning set	8153 Nov 26 12:00	0° х 40'54	
superior conj	8152 Dec 21 18:47	3° る 43'27	0°55'19	morning sec	0100 1101 20 12.00	0 % 1031	
minimum elong	8152 Dec 21 22:10	3° る 58'53	0°55'01	superior conj	8153 Dec 04 19:00	17° х 00'06	1°18'51
desc. node	8152 Dec 29 11:39	17°る19'25	0 33 01	minimum elong	8153 Dec 04 22:07	17° 🗷 15'03	1°18'39
max. Earth dist.	8152 Dec 29 08:55	17 3 1923	1.40916 AU	max. Earth dist.	8153 Dec 04 22:07 8153 Dec 11 14:38	29° х 41'42	1.38758 AU
evening rise	8153 Jan 02 23:33	24°る50'22	1.40710 AC	max. Lartii dist.	8153 Dec 11 14:38 8153 Dec 11 18:43	0°る	1.50/50 AC
evening rise	8153 Jan 06 04:08	0° ≈		evening rise	8153 Dec 11 18:43 8153 Dec 15 09:57	6°る23'44	
	8153 Jan 26 14:49	0 ≈ 0° ∺		desc. node		8° る 23'44	
avanina may al	8153 Feb 06 05:15	0 X 12° ¥ 37'39	22920/01	desc. node	8153 Dec 16 08:40 8153 Dec 30 04:12	8 00111 0°≈	
evening max el		12 X 57 39 18° X 50'43	23 2001			0 ≈ 26°≈23'06	24920104
retrograde asc. node	8153 Feb 16 17:30	18 X 3043 17° X 33'34		evening max el	8154 Jan 19 18:35	20 ≈ 23 00	24°39'04
	8153 Feb 20 16:27			. 1	8154 Jan 23 21:11		
evening set	8153 Feb 21 17:39	16°) (45′54	0.60240.411	retrograde	8154 Jan 31 08:40	3° ¥ 09'06	
min. Earth dist.	8153 Feb 26 15:35	11°) (00'07		evening set	8154 Feb 05 21:17	0° ¥ 50'54	
inferior conj	8153 Feb 27 03:22	10° ¥ 19'35	1°58'55	,	8154 Feb 06 19:27	30°R≈	
minimum elong	8153 Feb 27 01:11	10°) €27'05	1°58'16	asc. node	8154 Feb 07 13:31	29°≈13'11	
morning rise	8153 Mar 04 08:41	4°) 13'43		min. Earth dist.	8154 Feb 10 11:12	25°≈39'22	0.67922 AU
direct	8153 Mar 08 15:29	2°) (31'37		inferior conj	8154 Feb 11 10:23	24°≈22'13	1°14'45
morning max el	8153 Mar 17 01:42	7°) €22'28	21°03'28	minimum elong	8154 Feb 11 08:44	24° ≈ 27'43	1°14'15
desc. node	8153 Mar 27 11:19	20°) 10′53		morning rise	8154 Feb 16 20:21	18° ≈ 23'01	
	8153 Apr 03 08:15	0° Υ		direct	8154 Feb 20 14:08	17° ≈ 02'47	
morning set	8153 Apr 16 15:43	20° Y 12'56		morning max el	8154 Feb 28 01:26	21°≈14'12	19°52'15
	8153 Apr 22 19:13	0° 8			8154 Mar 07 07:42	0° ∀	
max. Earth dist.	8153 Apr 24 05:54	2° 8 20'51	1.42705 AU	greatest brilliancy	8154 Mar 13 02:47	8° ¥ 13'12	-0.6m
				desc. node	8154 Mar 14 08:15	10° 米 01′29	
superior conj	8153 May 01 08:51	14° 8 12'56		morning set	8154 Mar 26 13:19	28°) € 30'43	
minimum elong	8153 May 01 13:18	14° 8 31'51	2°04'52		8154 Mar 27 12:27	0° Υ	
	8153 May 10 09:44	Π °0		max. Earth dist.	8154 Apr 06 16:12	15° Ƴ 54'17	1.44297 AU
evening rise	8153 May 13 00:05	4° Ⅱ 39'02					
asc. node	8153 May 19 15:22	16° ∐ 24'42		superior conj	8154 Apr 11 19:29	24° Y 09'19	-2°11'40
	8153 May 28 21:50	0 \circ 50		minimum elong	8154 Apr 11 18:39	24° Y 05'56	2°11'43
evening max el	8153 May 29 14:44	0° 5 43'27	18°06'03		8154 Apr 15 09:15	9° 8	
retrograde	8153 Jun 05 06:25	4° 5 07'33		evening rise	8154 Apr 25 03:48	16° 8 25'16	
evening set	8153 Jun 07 19:53	3° 5 37'21			8154 May 03 04:20	$\Pi^{\circ}0$	

asc. node	8154 May 06 12:25	5° Ⅱ 19'54		retrograde	8155 May 03 04:40	1° Ⅱ 03'40	
evening max el	8154 May 13 04:02	14° ∏ 01'07	18°10'23	evening set	8155 May 06 08:44	0° Ⅱ 07'09	
retrograde	8154 May 19 13:22	17° I I22'53	16 10 23	evening set	8155 May 06 13:28	30°R ႘	
evening set	8154 May 19 13:22 8154 May 22 10:07	17 H 22 33		inferior conj	8155 May 12 02:02	24° 8 33'50	2020120
=	-	16 П 40 12 11° П 24'11	3°01'50	·			
inferior conj	8154 May 28 12:47	11 П 24 11 11° П 18'11		minimum elong	8155 May 12 02:54	24° 8 31'13	3°20'27 0.64954 AU
minimum elong	8154 May 28 14:59	8° П 27'51	3°01'20	min. Earth dist.	8155 May 14 04:12	22° 8 03'42 18° 8 17'31	0.04934 AU
min. Earth dist.	8154 May 31 05:57		0.63034 AU	morning rise	8155 May 17 20:17	_	
morning rise	8154 Jun 03 18:20	5° Ⅱ 14'05		direct	8155 May 24 11:27	15° 8 31'32	
desc. node	8154 Jun 10 07:51	2° ∏ 39'48		desc. node	8155 May 28 04:52	16° 8 16'25	27012157
direct	8154 Jun 10 12:51	2° ∏ 39'39	25010110	morning max el	8155 Jun 06 22:45	23° 8 26'59	2/°12'5/
morning max el	8154 Jun 24 12:46	10° Ⅱ 42'45	27°49'48		8155 Jun 12 18:33	0°II	
	8154 Jul 09 16:01	0° ©			8155 Jul 03 00:06	0°95	
	8154 Jul 27 00:34	$0^{\circ}\Omega$		morning set	8155 Jul 12 10:54	17° © 15'57	
morning set	8154 Jul 28 22:10	3° Ω 46′26		max. Earth dist.	8155 Jul 16 23:26	26°516'56	1.33563 AU
asc. node	8154 Aug 02 11:40	13° Ω 12'37			8155 Jul 18 18:41	0 ° Ω	
max. Earth dist.	8154 Aug 03 03:44	14° Ω 38'00	1.32450 AU	asc. node	8155 Jul 20 08:41	3° Ω 18'51	
superior conj	8154 Aug 05 15:24	19° Ω 58'57	0°31'40	superior conj	8155 Jul 20 18:38	4° Ω 11'19	0°04'13
minimum elong	8154 Aug 05 13:58	19° Ω 51'12	0°31'15	minimum elong	8155 Jul 20 18:25	4° Ω 10'12	0°04'02
	8154 Aug 10 05:45	0° m/y		behind sun begin	8155 Jul 20 13:00	3° Ω 41'38	
evening rise	8154 Aug 12 13:16	4° m) 59'14		behind sun end	8155 Jul 20 23:50	4°Ω38'48	
0.0000	8154 Aug 25 19:17	0∘ ⊽		evening rise	8155 Jul 28 00:11	19° Ω 35'16	
evening max el	8154 Sep 05 04:43		23°36'37	evening rise	8155 Aug 02 02:39	0° m)	
desc. node	8154 Sep 06 06:50	14° Ω 16'15	23 30 37	evening max el	8155 Aug 17 18:51	23° mp 31'05	21°58'30
retrograde	8154 Sep 18 18:38	20° Ω 03'04		desc. node	8155 Aug 24 03:56	28° m/ 15'10	21 0000
evening set	8154 Sep 23 03:19	19° £ 21'27		retrograde	8155 Aug 30 10:52	29° m/48'35	
min. Earth dist.	8154 Sep 29 14:49		0.55748 AU	evening set	8155 Sep 02 08:41	29° m) 29'43	
inferior conj	8154 Oct 01 15:01	15° ≏ 04'57		inferior conj	8155 Sep 11 11:42	25° m/29'00	-4°50'31
minimum elong	8154 Oct 01 12:57	15° ⊆ 04'97		minimum elong	8155 Sep 11 03:09	25° m/25'00	4°48'46
morning rise	8154 Oct 10 00:43	13° ⊆ 00'03	3 32 24	min. Earth dist.	8155 Sep 10 23:19	25° m/46'22	0.54820 AU
direct	8154 Oct 10 00:45 8154 Oct 12 21:05	10° ⊆ 50'53		morning rise	8155 Sep 10 23:17 8155 Sep 19 23:01	21° m/ 40'23	0.54020 AC
morning max el	8154 Oct 23 08:35		20°13'23	direct	8155 Sep 23 09:05	21° my 14'32	
asc. node	8154 Oct 29 11:17	23° £ 05'23	20 13 23	morning max el	8155 Oct 05 09:37	26° Mp 54'11	21°42'55
asc. Houc	8154 Nov 02 18:54	0°M		morning max ci	8155 Oct 08 09:03	ე∘ <u>ი</u>	21 42 33
morning set	8154 Nov 10 17:41	15°M17'54		asc. node	8155 Oct 16 08:16	0 = 11° ≏ 17'52	
morning set	8154 Nov 17 17:41 8154 Nov 17 21:51	13 IIC1734 0° ⊼		morning set	8155 Oct 26 03:14	0°M04'19	
	8134 NOV 17 21.31	0 X		morning set	8155 Oct 26 02:25	0°M	
superior conj	8154 Nov 18 08:43	0° ∡ ′54'49	1°33'38				
minimum elong	8154 Nov 18 10:43	1° ∡ 104'55	1°33'37	superior conj	8155 Nov 02 07:56	15° M ₊16'00	1°40'37
max. Earth dist.	8154 Nov 23 21:01	11° ∡ ¹43'58	1.36652 AU	minimum elong	8155 Nov 02 08:36	15° M ₊19'29	1°40'42
evening rise	8154 Nov 27 16:50	18° ∡ 51'30		max. Earth dist.	8155 Nov 06 09:22	23°M37'18	1.34811 AU
desc. node	01341101 27 10.30	10 7 51 50				23 1103/10	1.54011 /10
	8154 Dec 03 05:43	28° ⋌ 35'40			8155 Nov 09 14:45	25 11 3 57 18	1.54011 AC
				evening rise	8155 Nov 09 14:45 8155 Nov 10 16:27		1.54011 AU
	8154 Dec 03 05:43	28° ₹ 35'40		evening rise desc. node		0° ∡ ¹	1.54011 AO
evening max el	8154 Dec 03 05:43 8154 Dec 04 01:40	28°♂35'40 0°♂	25°50'38	•	8155 Nov 10 16:27	0° ҂ ¹ 2° ҂ ¹03'47	1.54011 AU
evening max el retrograde	8154 Dec 03 05:43 8154 Dec 04 01:40 8154 Dec 24 08:23	28°♂35'40 0°♂ 0°≈	25°50'38	•	8155 Nov 10 16:27 8155 Nov 20 02:46	0° 尽 2° 尽 03'47 18° 尽 57'44	
•	8154 Dec 03 05:43 8154 Dec 04 01:40 8154 Dec 24 08:23 8155 Jan 02 07:41	28° メ 35'40 0° る 0° ≈ 10°≈10'36	25°50'38	desc. node	8155 Nov 10 16:27 8155 Nov 20 02:46 8155 Nov 27 01:00	0° 조 2° 조 03'47 18° 조 57'44 0°궁	
retrograde	8154 Dec 03 05:43 8154 Dec 04 01:40 8154 Dec 24 08:23 8155 Jan 02 07:41 8155 Jan 14 19:08	28° 🗷 35'40 0° 云 0° ≈ 10° ≈ 10'36 17° ≈ 18'18	25°50'38 0.67116 AU	desc. node	8155 Nov 10 16:27 8155 Nov 20 02:46 8155 Nov 27 01:00 8155 Dec 15 21:03	0° 년 2° 년03'47 18° 년57'44 0° 년 23° 년52'55	
retrograde evening set	8154 Dec 03 05:43 8154 Dec 04 01:40 8154 Dec 24 08:23 8155 Jan 02 07:41 8155 Jan 14 19:08 8155 Jan 20 20:23	28° \$\frac{7}{3}5'40 0° \frac{7}{6} 0° \approx 10'36 17° \approx 18'18 14° \approx 49'24		desc. node evening max el	8155 Nov 10 16:27 8155 Nov 20 02:46 8155 Nov 27 01:00 8155 Dec 15 21:03 8155 Dec 24 04:03	0°♂ 2°♂03'47 18°♂57'44 0°♂ 23°♂52'55	
retrograde evening set min. Earth dist.	8154 Dec 03 05:43 8154 Dec 04 01:40 8154 Dec 24 08:23 8155 Jan 02 07:41 8155 Jan 14 19:08 8155 Jan 20 20:23 8155 Jan 25 03:28	28° ₹35'40 0° ₹5 0° ≈ 10'36 17° ≈18'18 14° ≈49'24 10° ≈12'24	0.67116 AU	desc. node evening max el	8155 Nov 10 16:27 8155 Nov 20 02:46 8155 Nov 27 01:00 8155 Dec 15 21:03 8155 Dec 24 04:03 8155 Dec 28 23:59	0° 🖈 2° 🖈 03'47 18° 🕏 57'44 0° 🖰 23° ₹52'55 0° ≈ 1° ≈ 10'50	
retrograde evening set min. Earth dist. asc. node	8154 Dec 03 05:43 8154 Dec 04 01:40 8154 Dec 24 08:23 8155 Jan 02 07:41 8155 Jan 14 19:08 8155 Jan 20 20:23 8155 Jan 25 03:28 8155 Jan 25 10:34	28° ₹35'40 0° ₹ 0° ≈ 10° ≈10'36 17° ≈18'18 14° ≈49'24 10° ≈12'24 9° ≈50'12 8° ≈23'34	0.67116 AU	desc. node evening max el retrograde	8155 Nov 10 16:27 8155 Nov 20 02:46 8155 Nov 27 01:00 8155 Dec 15 21:03 8155 Dec 24 04:03 8155 Dec 28 23:59 8156 Jan 02 10:49	0° 🗷 2° 🗷 03'47 18° 🗷 57'44 0° ට 23° ට 52'55 0° ≈ 1° ≈ 10'50 30° අට	26°47'14
retrograde evening set min. Earth dist. asc. node inferior conj minimum elong	8154 Dec 03 05:43 8154 Dec 04 01:40 8154 Dec 24 08:23 8155 Jan 02 07:41 8155 Jan 14 19:08 8155 Jan 20 20:23 8155 Jan 25 03:28 8155 Jan 25 10:34 8155 Jan 26 14:01	28° ₹35'40 0° ₹ 0° ≈ 10° ≈10'36 17° ≈18'18 14° ≈49'24 10° ≈12'24 9° ≈50'12 8° ≈23'34	0.67116 AU 0°22'46	desc. node evening max el retrograde evening set min. Earth dist.	8155 Nov 10 16:27 8155 Nov 20 02:46 8155 Nov 27 01:00 8155 Dec 15 21:03 8155 Dec 24 04:03 8155 Dec 28 23:59 8156 Jan 02 10:49 8156 Jan 04 13:01	0° 🖈 2° 🗗 03'47 18° 🗗 57'44 0° පි 23° පි52'55 0° ක 1° ක10'50 30° අපි 28° පි35'33	26°47'14 0.65947 AU
retrograde evening set min. Earth dist. asc. node inferior conj	8154 Dec 03 05:43 8154 Dec 04 01:40 8154 Dec 24 08:23 8155 Jan 02 07:41 8155 Jan 14 19:08 8155 Jan 20 20:23 8155 Jan 25 03:28 8155 Jan 25 10:34 8155 Jan 26 14:01 8155 Jan 26 13:26	28° ₹35'40 0° ₹5 0° ≈ 10'36 17° ≈18'18 14° ≈49'24 10° ≈12'24 9° ≈50'12 8° ≈23'34 8° ≈25'24	0.67116 AU 0°22'46	desc. node evening max el retrograde evening set min. Earth dist. inferior conj	8155 Nov 10 16:27 8155 Nov 20 02:46 8155 Nov 27 01:00 8155 Dec 15 21:03 8155 Dec 24 04:03 8155 Dec 28 23:59 8156 Jan 02 10:49 8156 Jan 04 13:01 8156 Jan 08 14:02	0° ₹ 2° ₹ 03'47 18° ₹ 57'44 0° ₹ 23° ₹ 52'55 0° ≈ 1° ≈ 10'50 30° ₹ ₹ 28° ₹ 33'09 22° ₹ 18'15	26°47'14 0.65947 AU -0°36'32
retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct	8154 Dec 03 05:43 8154 Dec 04 01:40 8154 Dec 24 08:23 8155 Jan 02 07:41 8155 Jan 14 19:08 8155 Jan 20 20:23 8155 Jan 25 03:28 8155 Jan 25 10:34 8155 Jan 26 14:01 8155 Jan 26 13:26 8155 Feb 01 07:00 8155 Feb 04 13:14	28° ₹35'40 0° ₹ 0° ≈ 10° ≈10'36 17° ≈18'18 14° ≈49'24 10° ≈12'24 9° ≈50'12 8° ≈23'34 8° ≈25'24 2° ≈32'55 1° ≈32'02	0.67116 AU 0°22'46 0°22'40	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	8155 Nov 10 16:27 8155 Nov 20 02:46 8155 Nov 27 01:00 8155 Dec 15 21:03 8155 Dec 24 04:03 8155 Dec 28 23:59 8156 Jan 02 10:49 8156 Jan 04 13:01 8156 Jan 08 14:02 8156 Jan 10 12:09 8156 Jan 10 13:11	0° ₹ 2° ₹03'47 18° ₹57'44 0° ₹ 23° ₹52'55 0° ≈ 1° ≈10'50 30° ₹ ₹ 28° ₹35'33 24° ₹33'09 22° ₹18'15 22° ₹515'14	26°47'14 0.65947 AU -0°36'32
retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el	8154 Dec 03 05:43 8154 Dec 04 01:40 8154 Dec 24 08:23 8155 Jan 02 07:41 8155 Jan 14 19:08 8155 Jan 20 20:23 8155 Jan 25 03:28 8155 Jan 26 14:01 8155 Jan 26 13:26 8155 Feb 01 07:00 8155 Feb 04 13:14 8155 Feb 11 08:53	28° ₹35'40 0° ₹ 0° ≈ 10° ≈10'36 17° ≈18'18 14° ≈49'24 10° ≈12'24 9° ≈50'12 8° ≈23'34 8° ≈25'24 2° ≈32'55 1° ≈32'02 5° ≈16'00	0.67116 AU 0°22'46	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	8155 Nov 10 16:27 8155 Nov 20 02:46 8155 Nov 27 01:00 8155 Dec 15 21:03 8155 Dec 24 04:03 8155 Dec 28 23:59 8156 Jan 02 10:49 8156 Jan 04 13:01 8156 Jan 08 14:02 8156 Jan 10 12:09 8156 Jan 10 13:11 8156 Jan 12 07:39	0° ₹ 2° ₹03'47 18° ₹57'44 0° ₹ 23° ₹52'55 0° ≈ 1° ≈10'50 30° ₹₹ 28° ₹35'33 24° ₹33'09 22° ₹18'15 22° ₹15'14 20° ₹14'19	26°47'14 0.65947 AU -0°36'32
retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct	8154 Dec 03 05:43 8154 Dec 04 01:40 8154 Dec 24 08:23 8155 Jan 02 07:41 8155 Jan 14 19:08 8155 Jan 20 20:23 8155 Jan 25 03:28 8155 Jan 25 10:34 8155 Jan 26 14:01 8155 Jan 26 13:26 8155 Feb 01 07:00 8155 Feb 04 13:14	28° ₹35'40 0° ₹ 0° ≈ 10° ≈10'36 17° ≈18'18 14° ≈49'24 10° ≈12'24 9° ≈50'12 8° ≈23'34 8° ≈25'24 2° ≈32'55 1° ≈32'02 5° ≈16'00 0° ¥13'11	0.67116 AU 0°22'46 0°22'40	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	8155 Nov 10 16:27 8155 Nov 20 02:46 8155 Nov 27 01:00 8155 Dec 15 21:03 8155 Dec 24 04:03 8155 Dec 28 23:59 8156 Jan 02 10:49 8156 Jan 04 13:01 8156 Jan 08 14:02 8156 Jan 10 12:09 8156 Jan 10 13:11	0° ₹ 2° ₹03'47 18° ₹57'44 0° ₹ 23° ₹52'55 0° ≈ 1° ≈10'50 30° ₹₹ 28° ₹35'33 24° ₹33'09 22° ₹18'15 22° ₹15'14 20° ₹14'19 16° ₹38'42	26°47'14 0.65947 AU -0°36'32
retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node	8154 Dec 03 05:43 8154 Dec 04 01:40 8154 Dec 24 08:23 8155 Jan 02 07:41 8155 Jan 14 19:08 8155 Jan 20 20:23 8155 Jan 25 03:28 8155 Jan 26 13:34 8155 Jan 26 13:26 8155 Feb 01 07:00 8155 Feb 04 13:14 8155 Feb 11 08:53 8155 Mar 01 05:11	28° ₹35'40 0° ₹ 0° ≈ 10° ≈10'36 17° ≈18'18 14° ≈49'24 10° ≈12'24 9° ≈50'12 8° ≈23'34 8° ≈25'24 2° ≈32'55 1° ≈32'02 5° ≈16'00	0.67116 AU 0°22'46 0°22'40	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	8155 Nov 10 16:27 8155 Nov 20 02:46 8155 Nov 27 01:00 8155 Dec 15 21:03 8155 Dec 24 04:03 8155 Dec 28 23:59 8156 Jan 02 10:49 8156 Jan 04 13:01 8156 Jan 08 14:02 8156 Jan 10 12:09 8156 Jan 10 13:11 8156 Jan 12 07:39 8156 Jan 16 14:21	0° ₹ 2° ₹03'47 18° ₹57'44 0° ₹ 23° ₹52'55 0° ≈ 1° ≈10'50 30° ₹₹ 28° ₹35'33 24° ₹33'09 22° ₹18'15 22° ₹15'14 20° ₹14'19 16° ₹38'42 15° ₹53'48	26°47'14 0.65947 AU -0°36'32
retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el	8154 Dec 03 05:43 8154 Dec 04 01:40 8154 Dec 24 08:23 8155 Jan 02 07:41 8155 Jan 14 19:08 8155 Jan 20 20:23 8155 Jan 25 03:28 8155 Jan 26 14:01 8155 Jan 26 14:01 8155 Jan 26 13:26 8155 Feb 01 07:00 8155 Feb 04 13:14 8155 Feb 11 08:53 8155 Mar 01 05:11 8155 Mar 01 01:47 8155 Mar 05 19:33	28° 水35'40 0°る 0°≈ 10°≈10'36 17°≈18'18 14°≈49'24 10°≈12'24 9°≈50'12 8°≈23'34 8°≈25'24 2°≈32'55 1°≈32'02 5°≈16'00 0°升13'11 0°升 7°米22'01	0.67116 AU 0°22'46 0°22'40	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	8155 Nov 10 16:27 8155 Nov 20 02:46 8155 Nov 27 01:00 8155 Dec 15 21:03 8155 Dec 24 04:03 8155 Dec 28 23:59 8156 Jan 02 10:49 8156 Jan 08 14:02 8156 Jan 10 12:09 8156 Jan 10 13:11 8156 Jan 12 07:39 8156 Jan 16 14:21 8156 Jan 19 10:47 8156 Jan 25 22:19	0° ₹ 2° ₹03'47 18° ₹57'44 0° ₹ 23° ₹52'55 0° ≈ 1° ≈10'50 30° ₹₹ 28° ₹33'09 22° ₹18'15 22° ₹15'14 20° ₹14'19 16° ₹38'42 15° ₹53'48 19° ₹21'52	26°47'14 0.65947 AU -0°36'32 0°35'57
retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set	8154 Dec 03 05:43 8154 Dec 04 01:40 8154 Dec 24 08:23 8155 Jan 02 07:41 8155 Jan 14 19:08 8155 Jan 20 20:23 8155 Jan 25 03:28 8155 Jan 26 14:01 8155 Jan 26 14:01 8155 Jan 26 13:26 8155 Feb 01 07:00 8155 Feb 04 13:14 8155 Feb 11 08:53 8155 Mar 01 01:47 8155 Mar 01 01:47 8155 Mar 05 19:33 8155 Mar 20 07:23	28° \$\times^3 5'40 0°\$\times 10'36 17°\$\times 18'18 14°\$\times 49'24 10°\$\times 12'24 9°\$\times 50'12 8°\$\times 23'34 8°\$\times 25'24 2°\$\times 32'55 1°\$\times 32'02 5°\$\times 16'00 0°\$\times 13'11 0°\$\times 7°\$\times 22'01 0°\$\times 1	0.67116 AU 0°22'46 0°22'40 18°56'08	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	8155 Nov 10 16:27 8155 Nov 20 02:46 8155 Nov 27 01:00 8155 Dec 15 21:03 8155 Dec 24 04:03 8155 Dec 28 23:59 8156 Jan 02 10:49 8156 Jan 08 14:02 8156 Jan 10 12:09 8156 Jan 10 13:11 8156 Jan 12 07:39 8156 Jan 16 14:21 8156 Jan 19 10:47 8156 Jan 25 22:19 8156 Feb 03 02:02	0° ₹ 2° ₹03'47 18° ₹57'44 0° ₹ 23° ₹52'55 0° ≈ 1° ≈10'50 30° ₹₹ 28° ₹33'09 22° ₹18'15 22° ₹15'14 20° ₹14'19 16° ₹38'42 15° ₹53'48 19° ₹21'52 0° ≈	26°47'14 0.65947 AU -0°36'32 0°35'57
retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node	8154 Dec 03 05:43 8154 Dec 04 01:40 8154 Dec 24 08:23 8155 Jan 02 07:41 8155 Jan 14 19:08 8155 Jan 20 20:23 8155 Jan 25 03:28 8155 Jan 26 14:01 8155 Jan 26 14:01 8155 Jan 26 13:26 8155 Feb 01 07:00 8155 Feb 04 13:14 8155 Feb 11 08:53 8155 Mar 01 05:11 8155 Mar 01 01:47 8155 Mar 05 19:33	28° \$\frac{7}{3}5'40 0°\$\frac{7}{6} 0°\$\sim 10'36 17°\$\sin 18'18 14°\$\sin 49'24 10°\$\sin 12'24 9°\$\sin 50'12 8°\$\sin 23'34 8°\$\sin 25'24 2°\$\sin 32'02 5°\$\sin 16'00 0°\$\tau 13'11 0°\$\tau 7°\$\tau 22'01 0°\$\tau	0.67116 AU 0°22'46 0°22'40	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	8155 Nov 10 16:27 8155 Nov 20 02:46 8155 Nov 27 01:00 8155 Dec 15 21:03 8155 Dec 24 04:03 8155 Dec 28 23:59 8156 Jan 02 10:49 8156 Jan 08 14:02 8156 Jan 10 12:09 8156 Jan 10 13:11 8156 Jan 12 07:39 8156 Jan 16 14:21 8156 Jan 19 10:47 8156 Jan 25 22:19 8156 Feb 03 02:02 8156 Feb 14 04:25	0° ₹ 2° ₹03'47 18° ₹57'44 0° ₹ 23° ₹52'55 0° ≈ 1° ≈10'50 30° ₹ ₹ 28° ₹ 33'09 22° ₹ 18'15 22° ₹ 15' ₹ 38'42 15° ₹ 53'48 19° ₹ 21'52 0° ≈ 17° ≈ 35'44	26°47'14 0.65947 AU -0°36'32 0°35'57
retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	8154 Dec 03 05:43 8154 Dec 04 01:40 8154 Dec 24 08:23 8155 Jan 02 07:41 8155 Jan 14 19:08 8155 Jan 20 20:23 8155 Jan 25 03:28 8155 Jan 26 14:01 8155 Jan 26 14:01 8155 Jan 26 13:26 8155 Feb 01 07:00 8155 Feb 04 13:14 8155 Feb 11 08:53 8155 Mar 01 01:47 8155 Mar 01 01:47 8155 Mar 05 19:33 8155 Mar 20 07:23	28° ₹35'40 0° ₹5 0° ≈ 10'36 17° ≈18'18 14° ≈49'24 10° ≈12'24 9° ≈50'12 8° ≈23'34 8° ≈25'24 2° ≈32'55 1° ≈32'02 5° ≈16'00 0° ¥13'11 0° ¥ 7° ¥22'01 0° \$\$\text{\$\tex	0.67116 AU 0°22'46 0°22'40 18°56'08	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	8155 Nov 10 16:27 8155 Nov 20 02:46 8155 Nov 27 01:00 8155 Dec 15 21:03 8155 Dec 24 04:03 8155 Dec 28 23:59 8156 Jan 02 10:49 8156 Jan 08 14:02 8156 Jan 10 12:09 8156 Jan 10 13:11 8156 Jan 12 07:39 8156 Jan 16 14:21 8156 Jan 19 10:47 8156 Jan 25 22:19 8156 Feb 03 02:02	0° ₹ 2° ₹03'47 18° ₹57'44 0° ♂ 23° ♂552'55 0° ≈ 1° ≈10'50 30° ₹♂ 28° ♂35'33 24° ♂33'09 22° ♂18'15 22° ♂15'14 20° ♂14'19 16° ♂38'42 15° ♂53'48 19° ♂21'52 0° ≈ 17° ≈35'44 20° ≈39'32	26°47'14 0.65947 AU -0°36'32 0°35'57
retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	8154 Dec 03 05:43 8154 Dec 04 01:40 8154 Dec 24 08:23 8155 Jan 02 07:41 8155 Jan 14 19:08 8155 Jan 20 20:23 8155 Jan 25 03:28 8155 Jan 26 14:01 8155 Jan 26 13:26 8155 Feb 01 07:00 8155 Feb 04 13:14 8155 Feb 11 08:53 8155 Mar 01 05:11 8155 Mar 01 01:47 8155 Mar 20 07:23 8155 Mar 20 08:24	28° ₹35'40 0° ₹5 0° ≈ 10° ≈ 10'36 17° ≈ 18'18 14° ≈ 49'24 10° ≈ 12'24 9° ≈ 50'12 8° ≈ 23'34 8° ≈ 25'24 2° ≈ 32'55 1° ≈ 32'02 5° ≈ 16'00 0° ¥ 13'11 0° ¥ 7° ¥ 22'01 0° ♀ 0° ♀ 04'01 3° ♀ 12'58	0.67116 AU 0°22'46 0°22'40 18°56'08 1.45266 AU -1°59'05	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	8155 Nov 10 16:27 8155 Nov 20 02:46 8155 Nov 27 01:00 8155 Dec 15 21:03 8155 Dec 24 04:03 8155 Dec 28 23:59 8156 Jan 02 10:49 8156 Jan 08 14:02 8156 Jan 10 12:09 8156 Jan 10 13:11 8156 Jan 12 07:39 8156 Jan 12 07:39 8156 Jan 16 14:21 8156 Jan 19 10:47 8156 Jan 25 22:19 8156 Feb 03 02:02 8156 Feb 14 04:25 8156 Feb 16 02:09	0° ₹ 2° ₹03'47 18° ₹57'44 0° ₹ 23° ₹52'55 0° ≈ 1° ≈10'50 30° ₹ ₹ 28° ₹ 33'09 22° ₹ 18'15 22° ₹ 15' ₹ 38'42 15° ₹ 53'48 19° ₹ 21'52 0° ≈ 17° ≈ 35'44	26°47'14 0.65947 AU -0°36'32 0°35'57
retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	8154 Dec 03 05:43 8154 Dec 04 01:40 8154 Dec 24 08:23 8155 Jan 02 07:41 8155 Jan 14 19:08 8155 Jan 20 20:23 8155 Jan 25 10:34 8155 Jan 26 14:01 8155 Jan 26 13:26 8155 Feb 01 07:00 8155 Feb 04 13:14 8155 Feb 11 08:53 8155 Mar 01 05:11 8155 Mar 01 01:47 8155 Mar 20 07:23 8155 Mar 20 08:24 8155 Mar 22 08:28 8155 Mar 22 08:28	28° ₹35'40 0° ₹ 0° ≈ 10° ≈10'36 17° ≈18'18 14° ≈49'24 10° ≈12'24 9° ≈50'12 8° ≈23'34 8° ≈25'24 2° ≈32'55 1° ≈32'02 5° ≈16'00 0° ¥13'11 0° ¥ 7° ¥22'01 0° ¥04'01 3° ¥12'58 2° ¥42'56	0.67116 AU 0°22'46 0°22'40 18°56'08	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	8155 Nov 10 16:27 8155 Nov 20 02:46 8155 Nov 27 01:00 8155 Dec 15 21:03 8155 Dec 24 04:03 8155 Dec 28 23:59 8156 Jan 02 10:49 8156 Jan 04 13:01 8156 Jan 10 12:09 8156 Jan 10 13:11 8156 Jan 12 07:39 8156 Jan 12 07:39 8156 Jan 19 10:47 8156 Jan 19 10:47 8156 Jan 25 22:19 8156 Feb 03 02:02 8156 Feb 14 04:25 8156 Feb 16 02:09 8156 Feb 21 22:28	0° ₹ 2° ₹03'47 18° ₹57'44 0° ₹ 23° ₹52'55 0° ≈ 1° ≈10'50 30° ₹₹ 28° ₹33'09 22° ₹18'15 22° ₹15'14 20° ₹14'19 16° ₹38'42 15° ₹53'48 19° ₹21'52 0° ≈ 17° ≈35'44 20° ≈39'32 0° ¥	26°47'14 0.65947 AU -0°36'32 0°35'57 18°16'22
retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	8154 Dec 03 05:43 8154 Dec 04 01:40 8154 Dec 24 08:23 8155 Jan 02 07:41 8155 Jan 14 19:08 8155 Jan 20 20:23 8155 Jan 25 10:34 8155 Jan 26 14:01 8155 Jan 26 13:26 8155 Feb 01 07:00 8155 Feb 04 13:14 8155 Feb 11 08:53 8155 Mar 01 01:47 8155 Mar 01 01:47 8155 Mar 20 07:23 8155 Mar 20 08:24 8155 Mar 22 08:28 8155 Mar 22 00:51 8155 Mar 22 00:51 8155 Apr 06 08:47	28° ₹35'40 0° ₹ 0° ≈ 10° ≈10'36 17° ≈18'18 14° ≈49'24 10° ≈12'24 9° ≈50'12 8° ≈23'34 8° ≈25'24 2° ≈32'55 1° ≈32'02 5° ≈16'00 0° ¥13'11 0° ¥ 7° ¥22'01 0° ¥ 0° ¥04'01 3° ¥12'58 2° ¥42'56 27° ¥13'25	0.67116 AU 0°22'46 0°22'40 18°56'08 1.45266 AU -1°59'05	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	8155 Nov 10 16:27 8155 Nov 20 02:46 8155 Nov 27 01:00 8155 Dec 15 21:03 8155 Dec 24 04:03 8155 Dec 28 23:59 8156 Jan 02 10:49 8156 Jan 08 14:02 8156 Jan 10 12:09 8156 Jan 10 13:11 8156 Jan 12 07:39 8156 Jan 16 14:21 8156 Jan 19 10:47 8156 Jan 19 10:47 8156 Feb 03 02:02 8156 Feb 14 04:25 8156 Feb 21 22:28	0° ₹ 2° ₹03'47 18° ₹57'44 0° ₹ 23° ₹52'55 0° ≈ 1° ≈10'50 30° ₹₹ 28° ₹33'09 22° ₹18'15 22° ₹15'14 20° ₹14'19 16° ₹38'42 15° ₹53'48 19° ₹21'52 0° ≈ 17° ≈35'44 20° ≈39'32 0° ¥	26°47'14 0.65947 AU -0°36'32 0°35'57 18°16'22
retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	8154 Dec 03 05:43 8154 Dec 04 01:40 8154 Dec 24 08:23 8155 Jan 02 07:41 8155 Jan 14 19:08 8155 Jan 20 20:23 8155 Jan 25 10:34 8155 Jan 26 14:01 8155 Jan 26 13:26 8155 Feb 01 07:00 8155 Feb 04 13:14 8155 Feb 11 08:53 8155 Mar 01 05:11 8155 Mar 01 01:47 8155 Mar 20 07:23 8155 Mar 20 07:23 8155 Mar 20 08:24 8155 Mar 22 08:28 8155 Mar 22 00:51 8155 Apr 06 08:47 8155 Apr 06 08:47 8155 Apr 08 01:46	28° ₹35'40 0° ₹ 0° ≈ 10° ≈10'36 17° ≈18'18 14° ≈49'24 10° ≈12'24 9° ≈50'12 8° ≈23'34 8° ≈25'24 2° ≈32'55 1° ≈32'02 5° ≈16'00 0° ₹13'11 0° ₹ 7° ₹22'01 0° ₹ 0° ₹04'01 3° ₹12'58 2° ₹42'56 27° ₹13'25 0° ₹	0.67116 AU 0°22'46 0°22'40 18°56'08 1.45266 AU -1°59'05	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	8155 Nov 10 16:27 8155 Nov 20 02:46 8155 Nov 27 01:00 8155 Dec 15 21:03 8155 Dec 24 04:03 8155 Dec 28 23:59 8156 Jan 02 10:49 8156 Jan 08 14:02 8156 Jan 10 12:09 8156 Jan 10 13:11 8156 Jan 12 07:39 8156 Jan 16 14:21 8156 Jan 19 10:47 8156 Jan 19 10:47 8156 Feb 03 02:02 8156 Feb 14 04:25 8156 Feb 16 02:09 8156 Feb 21 22:28	0° ₹ 2° ₹03'47 18° ₹57'44 0° ♂ 23° ♂52'55 0° ≈ 1° ≈10'50 30° ₹♂ 28° ♂35'33 24° ♂33'09 22° ♂18'15 22° ♂15'14 20° ♂14'19 16° ♂38'42 15° ♂53'48 19° ♂21'52 0° ≈ 17° ≈35'44 20° ≈39'32 0° ★ 12° ₩01'06 11° ₩24'25	26°47'14 0.65947 AU -0°36'32 0°35'57 18°16'22 -1°27'16 1°26'13
retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	8154 Dec 03 05:43 8154 Dec 04 01:40 8154 Dec 24 08:23 8155 Jan 02 07:41 8155 Jan 14 19:08 8155 Jan 25 03:28 8155 Jan 25 10:34 8155 Jan 26 14:01 8155 Jan 26 13:26 8155 Feb 01 07:00 8155 Feb 04 13:14 8155 Feb 11 08:53 8155 Mar 01 05:11 8155 Mar 01 01:47 8155 Mar 02 07:23 8155 Mar 20 07:23 8155 Mar 20 08:24 8155 Mar 22 08:28 8155 Mar 22 00:51 8155 Apr 06 08:47 8155 Apr 08 01:46 8155 Apr 23 09:30	28° ₹35'40 0° ₹ 0° ≈ 10° ≈10'36 17° ≈18'18 14° ≈49'24 10° ≈12'24 9° ≈50'12 8° ≈23'34 8° ≈25'24 2° ≈32'55 1° ≈32'02 5° ≈16'00 0° ¥13'11 0° ¥ 7° ¥22'01 0° ¥ 0° ¥04'01 3° ¥12'58 2° ¥42'56 27° ¥13'25 0° ₹ 23° ₹41'44	0.67116 AU 0°22'46 0°22'40 18°56'08 1.45266 AU -1°59'05 1°58'36	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	8155 Nov 10 16:27 8155 Nov 20 02:46 8155 Nov 27 01:00 8155 Dec 15 21:03 8155 Dec 24 04:03 8155 Dec 28 23:59 8156 Jan 02 10:49 8156 Jan 04 13:01 8156 Jan 08 14:02 8156 Jan 10 12:09 8156 Jan 10 13:11 8156 Jan 12 07:39 8156 Jan 16 14:21 8156 Jan 19 10:47 8156 Jan 19 10:47 8156 Feb 03 02:02 8156 Feb 14 04:25 8156 Feb 16 02:09 8156 Feb 29 13:14 8156 Feb 29 03:53 8156 Mar 02 03:58	0° ₹ 2° ₹03'47 18° ₹57'44 0° ♂ 23° ♂52'55 0° ≈ 1° ≈10'50 30° ₹♂ 28° ♂35'33 24° ♂33'09 22° ♂18'15 22° ♂15'14 20° ♂14'19 16° ♂38'42 15° ♂53'48 19° ♂21'52 0° ≈ 17° ≈35'44 20° ≈39'32 0° ዢ 12° ₭01'06 11° ₭24'25 14° ₭32'54	26°47'14 0.65947 AU -0°36'32 0°35'57 18°16'22
retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	8154 Dec 03 05:43 8154 Dec 04 01:40 8154 Dec 24 08:23 8155 Jan 02 07:41 8155 Jan 14 19:08 8155 Jan 20 20:23 8155 Jan 25 10:34 8155 Jan 26 14:01 8155 Jan 26 13:26 8155 Feb 01 07:00 8155 Feb 04 13:14 8155 Feb 11 08:53 8155 Mar 01 05:11 8155 Mar 01 01:47 8155 Mar 20 07:23 8155 Mar 20 07:23 8155 Mar 20 08:24 8155 Mar 22 08:28 8155 Mar 22 00:51 8155 Apr 06 08:47 8155 Apr 06 08:47 8155 Apr 08 01:46	28° ₹35'40 0° ₹ 0° ≈ 10° ≈10'36 17° ≈18'18 14° ≈49'24 10° ≈12'24 9° ≈50'12 8° ≈23'34 8° ≈25'24 2° ≈32'55 1° ≈32'02 5° ≈16'00 0° ₹13'11 0° ₹ 7° ₹22'01 0° ₹ 0° ₹04'01 3° ₹12'58 2° ₹42'56 27° ₹13'25 0° ₹	0.67116 AU 0°22'46 0°22'40 18°56'08 1.45266 AU -1°59'05	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	8155 Nov 10 16:27 8155 Nov 20 02:46 8155 Nov 27 01:00 8155 Dec 15 21:03 8155 Dec 24 04:03 8155 Dec 28 23:59 8156 Jan 02 10:49 8156 Jan 08 14:02 8156 Jan 10 12:09 8156 Jan 10 13:11 8156 Jan 12 07:39 8156 Jan 16 14:21 8156 Jan 19 10:47 8156 Jan 19 10:47 8156 Feb 03 02:02 8156 Feb 14 04:25 8156 Feb 16 02:09 8156 Feb 21 22:28	0° ₹ 2° ₹03'47 18° ₹57'44 0° ♂ 23° ♂52'55 0° ≈ 1° ≈10'50 30° ₹♂ 28° ♂35'33 24° ♂33'09 22° ♂18'15 22° ♂15'14 20° ♂14'19 16° ♂38'42 15° ♂53'48 19° ♂21'52 0° ≈ 17° ≈35'44 20° ≈39'32 0° ★ 12° ₩01'06 11° ₩24'25	26°47'14 0.65947 AU -0°36'32 0°35'57 18°16'22 -1°27'16 1°26'13

greatest brilliancy	8156 Mar 27 19:56	24° Y 33'28	-0.8m		8157 Mar 05 02:00	0° Υ	
<i>§</i>	8156 Mar 31 11:01	0°8		greatest brilliancy	8157 Mar 11 01:32	8° Y 52'50	-0.6m
evening max el	8156 Apr 09 01:25	11° 8 06'24	19°12'52	evening max el	8157 Mar 23 05:25	24° Y 44'14	20°08'25
asc. node	8156 Apr 09 06:36	11° 8 19'24		asc. node	8157 Mar 27 03:42	28° Y '00'09	
retrograde	8156 Apr 16 00:53	15° 8 02'30		retrograde	8157 Mar 30 23:16	29° Y 13'54	
evening set	8156 Apr 19 12:41	13° 8 51'24		evening set	8157 Apr 03 19:40	27° Y 47'50	
inferior conj	8156 Apr 25 00:01	8° 8 02'13	3°23'08	inferior conj	8157 Apr 09 03:51	21° Y 44'39	3°12'39
minimum elong	8156 Apr 24 23:36	8° 8 03'34	3°23'01	minimum elong	8157 Apr 09 02:25	21° Y 49'29	3°12'24
min. Earth dist.	8156 Apr 26 10:48	6° 8 10'00	0.66481 AU	min. Earth dist.	8157 Apr 10 00:12	20° Ƴ 35'41	0.67563 AU
morning rise	8156 Apr 30 10:07	1° 8 44'21		morning rise	8157 Apr 14 08:56	15° Y 27'57	
	8156 May 02 20:13	30° ₹Ƴ		direct	8157 Apr 20 03:18	12° Y 53'35	
direct	8156 May 06 16:34	28° Ƴ 59'10		desc. node	8157 Apr 30 22:50	19° Ƴ 02'59	
	8156 May 10 20:58	9° 8		morning max el	8157 May 01 18:22	19° Ƴ 51'27	24°47'02
desc. node	8156 May 14 01:51	1° 8 54'21			8157 May 10 10:02	9° 8	
morning max el	8156 May 19 08:57	6° 8 33'00	26°08'52		8157 May 30 15:33	Π °0	
	8156 Jun 06 11:53	$\Pi^{\circ}0$		morning set	8157 Jun 06 17:28	12° Ⅱ 04'36	
morning set	8156 Jun 24 10:53	0°906'05		max. Earth dist.	8157 Jun 10 08:18	18° ∏ 35′23	1.37150 AU
	8156 Jun 24 09:34	0ංම			8157 Jun 16 09:20	0_{\circ} වෙ	
max. Earth dist.	8156 Jun 28 08:30	7° © 30'35	1.35153 AU				
				superior conj	8157 Jun 17 00:04	1°5511'42	
superior conj	8156 Jul 03 14:33	17°958'15		minimum elong	8157 Jun 17 03:37	1°529'01	0°57'30
minimum elong	8156 Jul 03 16:04	18°905'58	0°26'02	asc. node	8157 Jun 23 02:45	13°9520'38	
asc. node	8156 Jul 06 05:43	23°922'56		evening rise	8157 Jun 25 11:28	18° © 05'25	
	8156 Jul 09 10:08	0°N			8157 Jul 01 15:01	0° Ω	10024140
evening rise	8156 Jul 11 08:23	3° £ 59'39		evening max el	8157 Jul 12 08:56	15° Ω 39'51	19°24'48
avanina may al	8156 Jul 26 02:27	0°M) 4°m-12!56	20922110	retrograde	8157 Jul 21 19:49	20° Ω 19'59	
evening max el	8156 Jul 29 19:18	4° Mp 13'56	20°32'10	evening set desc. node	8157 Jul 23 16:30 8157 Jul 27 22:06	20° Ω 09'54 18° Ω 40'42	
retrograde desc. node	8156 Aug 09 23:02 8156 Aug 10 01:00	9° Mp 44'56 9° Mp 44'55		inferior conj	8157 Aug 01 08:23	16° Ω 02'50	102121
evening set	8156 Aug 11 23:59	9° Mp 34'39		minimum elong	8157 Aug 01 04:44		1°20'04
inferior conj	8156 Aug 21 04:41	5° Mp 37'34	-3°17'45	min. Earth dist.	8157 Aug 01 04:44 8157 Aug 03 21:30	14°Ω24'03	0.55725 AU
minimum elong	8156 Aug 20 20:02	5° My 50'02		morning rise	8157 Aug 09 14:19	$11^{\circ}\Omega 27'01$	0.55725 AO
min. Earth dist.	8156 Aug 22 08:51	4° My 56'55		direct	8157 Aug 14 12:02	10°Ω32'37	
morning rise	8156 Aug 29 15:39	1° Mp 34'23	0.5 1000 110	morning max el	8157 Aug 28 13:35	17° Ω 37'32	25°10'52
direct	8156 Sep 02 18:00	0° m 58'23			8157 Sep 07 18:27	0°m)	20 1002
morning max el	8156 Sep 16 01:01	7° m/23'31	23°26'38	asc. node	8157 Sep 19 02:16	19° m 26'48	
asc. node	8156 Oct 02 05:16	0° ჲ 08'34		morning set	8157 Sep 24 02:24	29° m 43'18	
	8156 Oct 02 03:25	0∘ ⊽		C	8157 Sep 24 05:32	0∘ ⊽	
morning set	8156 Oct 09 14:45	14° £ 54'57			·		
				superior conj	8157 Sep 30 23:18	14° ≏ 43'04	1°34'48
superior conj	8156 Oct 16 13:39	29° ≙ 55'05	1°40'44	minimum elong	8157 Sep 30 21:46	14° ≏ 34'40	1°34'44
minimum elong	8156 Oct 16 13:05	29° ≙ 52'00	1°40'49	max. Earth dist.	8157 Oct 02 10:15	17° ≏ 54'34	1.32334 AU
	8156 Oct 16 14:34	0° M ₊		evening rise	8157 Oct 08 02:57	0°M02'26	
max. Earth dist.	8156 Oct 19 06:08	5°M39'33	1.33354 AU		8157 Oct 08 02:29	0° M	
evening rise	8156 Oct 24 05:00	15°M50'53		desc. node	8157 Oct 23 20:55	28°M38'33	
	8156 Oct 31 16:53	0° ∡ ¹			8157 Oct 24 17:55	0°⊀	
desc. node	8156 Nov 05 23:50	9° ∡ '01'39		evening max el	8157 Nov 09 19:53		27°27'30
	8156 Nov 20 16:12	0°ਰ		retrograde	8157 Nov 23 14:31	27° ₹ 33'48	
evening max el	8156 Nov 27 09:48	7° る 19'46	27°21'35	evening set	8157 Nov 30 17:04	25° ₹ 07'16	
retrograde	8156 Dec 10 22:37	14° る 39'20		min. Earth dist.	8157 Dec 04 09:23		0.62617 AU
evening set	8156 Dec 17 20:54	12°る03'55	0.64420.433	inferior conj	8157 Dec 07 05:53	19° 🗷 24'19	
min. Earth dist.	8156 Dec 21 16:36		0.64438 AU	minimum elong	8157 Dec 07 11:17	19° ₹ 11'25	2°49'13
inferior conj	8156 Dec 24 02:24	6°る01'04		morning rise	8157 Dec 14 07:36	14° ₹ 16'07	
minimum elong	8156 Dec 24 05:32	5° る 52'43	1°40′34	asc. node	8157 Dec 16 01:44	13° 🖈 53'21	
asc. node morning rise	8156 Dec 29 04:41 8156 Dec 30 15:44	1°る22'45 0°る35'35		direct morning max el	8157 Dec 16 14:49 8157 Dec 23 08:18	13° 尽 51'58 17° 尽 18'26	17°48'17
direct	8150 Dec 30 13.44 8157 Jan 02 04:22	0° ろ 02'54		morning max er	8158 Jan 01 09:53	17 メ *1820	1/ 401/
morning max el	8157 Jan 08 15:09	3°る25'29	17°53'32	morning set	8158 Jan 08 07:41	0 3 12° る 01'30	
morning max er	8157 Jan 25 18:18	3 02329 29° る 15'02	1 33 34	morning set	8158 Jan 18 15:56	0°≈	
morning set	8157 Jan 26 04:59	29 ℃13 02 0°≈			5155 Juli 10 15.50	J / V	
desc. node	8157 Feb 01 23:08	0 ~ 11° ≈ 16'05		superior conj	8158 Jan 19 20:43	2°≈01'13	-0°00'11
acce. node	510, 100 01 25.00	11 . 4.10 03		minimum elong	8158 Jan 19 20:43	2°≈01'13	0°00'03
superior conj	8157 Feb 08 05:09	21° ≈ 26′25	-0°44'09	behind sun begin	8158 Jan 19 12:01	1°≈24'41	
minimum elong	8157 Feb 08 00:05	21°≈06'03		behind sun end	8158 Jan 20 05:24	2°≈37'41	
max. Earth dist.	8157 Feb 12 23:40	29°≈02'24	1.45000 AU	desc. node	8158 Jan 19 20:05	1°≈58'36	
	8157 Feb 13 14:16	0° ∀		max. Earth dist.	8158 Jan 26 16:19	13° ≈ 13'46	1.43809 AU
evening rise	8157 Feb 24 05:01	16° ¥ 29'51		evening rise	8158 Feb 03 17:12	25°≈54'51	
-				-			

	8158 Feb 06 08:55	0° ∀		desc. node	8159 Jan 06 17:03	22° ප් 43'41	
	8158 Feb 27 02:16	$0^{\circ}\Upsilon$		max. Earth dist.	8159 Jan 09 04:19	26° පි 52'52	1.42078 AU
evening max el	8158 Mar 06 03:48	8° Y 23'04	21°16'54		8159 Jan 11 01:35	0° ≈	
asc. node	8158 Mar 14 00:46	13° Y 29'02		evening rise	8159 Jan 14 18:07	5° ≈ 58'19	
retrograde	8158 Mar 14 21:39	13° Y 32'55			8159 Jan 30 14:55	0°)	
evening set	8158 Mar 19 03:46	11° Y 51'46		evening max el	8159 Feb 16 21:22	22°) €04'00	22°34'01
inferior conj	8158 Mar 24 11:06	5° Y 37'05	2°51'21	retrograde	8159 Feb 26 18:09	27° ¥ 55′02	
minimum elong	8158 Mar 24 09:03	5° Ƴ 44'14	2°50'54	asc. node	8159 Feb 28 21:50	27° ∺ 31'37	
min. Earth dist.	8158 Mar 24 18:16	5° Y 12′12	0.68198 AU	evening set	8159 Mar 03 11:19	25° ¥ 58'55	
	8158 Mar 28 22:37	30° ₹ ₩		inferior conj	8159 Mar 08 19:43	19°) 35′52	2°20'36
morning rise	8158 Mar 29 14:08	29°) €23'21		minimum elong	8159 Mar 08 17:27	19°) 43′45	2°19'59
direct	8158 Apr 03 18:51	27°) €06'40		min. Earth dist.	8159 Mar 08 14:44	19° ⊁ 53'13	0.68411 AU
	8158 Apr 10 12:13	0 ° Υ		morning rise	8159 Mar 13 23:27	13° ¥ 26′34	
morning max el	8158 Apr 14 03:51	3° Y 16'56	23°17'36	direct	8159 Mar 18 14:10	11° ∺ 31'19	
desc. node	8158 Apr 17 19:48	7° Ƴ 17'12		morning max el	8159 Mar 27 16:22	16° ∺ 49'49	21°49'56
	8158 May 04 13:06	9° 8		desc. node	8159 Apr 04 16:43	26° ∺ 18'21	
morning set	8158 May 19 01:06	22° 8 57'26			8159 Apr 07 10:48	0° Y	
max. Earth dist.	8158 May 23 04:12	0°∏00′26	1.39374 AU		8159 Apr 27 14:51	0° 8	
	8158 May 23 04:06	Π $^{\circ}0$		morning set	8159 Apr 29 05:15	2° 8 32'55	
				max. Earth dist.	8159 May 05 03:18	12° 8 12'19	1.41571 AU
superior conj	8158 May 30 19:20	13° ∏ 42'44					
minimum elong	8158 May 31 00:40	14° Ⅱ 07′26	1°28'05	superior conj	8159 May 12 19:41	25° 8 19'57	
	8158 Jun 08 08:46	0		minimum elong	8159 May 13 01:19		1°54'06
evening rise	8158 Jun 09 06:33	1° 5 35'04			8159 May 15 10:56	$0^{\circ}\Pi$	
asc. node	8158 Jun 09 23:47	3° © 08'05		evening rise	8159 May 23 13:50	14° Ⅱ 48'22	
evening max el	8158 Jun 25 10:00	27° © 49'19	18°38'19	asc. node	8159 May 27 20:49	22° Ⅱ 39'51	
	8158 Jun 28 01:04	0 $^{\circ}\Omega$			8159 Jun 01 01:48	0 \circ	
retrograde	8158 Jul 03 09:54	1° Ω 47'28		evening max el	8159 Jun 08 18:44	10° © 32'53	18°12'14
evening set	8158 Jul 05 11:35	1° Ω 32′25		retrograde	8159 Jun 15 18:39	14° 5 04'29	
	8158 Jul 09 03:47	30° ₹ 5		evening set	8159 Jun 18 03:57	13° 5 940'31	
inferior conj	8158 Jul 13 08:07	27° © 07'19	0°26'08	inferior conj	8159 Jun 25 05:24	8° 9 54'51	1°47'55
minimum elong	8158 Jul 13 09:06	27° © 05'28	0°25'37	minimum elong	8159 Jun 25 08:21	8° 5 348'19	1°46'52
desc. node	8158 Jul 14 19:09	26° © 00'38		min. Earth dist.	8159 Jun 28 14:23	5° © 57'17	0.59563 AU
min. Earth dist.	8158 Jul 16 14:52	24° © 39'19	0.57420 AU	desc. node	8159 Jul 01 16:11	3° © 38'49	
morning rise	8158 Jul 21 03:04	21° © 54'20		morning rise	8159 Jul 02 09:45	3° © 11'44	
direct	8158 Jul 26 20:54	20° © 32'01		direct	8159 Jul 08 19:12	1° © 17'36	
morning max el	8158 Aug 10 05:32	28°905'54	26°38'30	morning max el	8159 Jul 23 03:49	9° © 09'17	27°35'44
	8158 Aug 12 02:29	0 ° Ω			8159 Aug 08 03:14	0 ° Ω	
	8158 Sep 01 08:06	0° m)		morning set	8159 Aug 23 19:33	28° £ 54′23	
asc. node	8158 Sep 05 23:15	9° m 05'20		asc. node	8159 Aug 23 20:13	28° Ω 57'51	
morning set	8158 Sep 08 12:34	14° m)24'47		P 4 P	8159 Aug 24 08:03	0° m)	1 21 (71 1 1 1 1
	0150 0 15 10 51	200 7 22110	1000100	max. Earth dist.	8159 Aug 30 05:12	12° m 45'43	1.31674 AU
superior conj	8158 Sep 15 10:51	29° m 33'49	1°23'22		0150 4 00 00 00	1.40 % 0.110.1	10005
minimum elong	8158 Sep 15 08:44	29° m/22'08	1°23'06	superior conj	8159 Aug 30 22:29	14° Mp 21'21	1°06'54
E d E	8158 Sep 15 15:34	0° 亞	1 21 77 7 1 1 1	minimum elong	8159 Aug 30 20:14	14° Mp 08'56	1°06'28
max. Earth dist.	8158 Sep 15 19:03	0° £ 19'17	1.31775 AU	evening rise	8159 Sep 06 16:30	29° m, 09'50	
evening rise	8158 Sep 22 07:34	14° Ω 31'01			8159 Sep 07 01:55	0∘ w	
daga mada	8158 Sep 30 02:43	0° ጤ 17° ጤ 37'40		daga mada	8159 Sep 23 12:33 8159 Sep 27 15:04	0°ጤ 5°ጤ44'16	
desc. node	8158 Oct 10 17:59	17 1163740 0° √ 7		desc. node	*		26900105
avanina may al	8158 Oct 20 11:37 8158 Oct 23 00:59		27900126	evening max el retrograde	8159 Oct 04 22:52 8159 Oct 18 21:14	14°M02'02 21°M05'59	26°00'05
evening max el retrograde	8158 Nov 05 22:41	2° х 34'19 9° х 44'48	27°00'26	evening set	8159 Oct 25 05:53	19°M29'48	
evening set	8158 Nov 12 21:39	7° ∡ 38'15		min. Earth dist.	8159 Oct 29 11:43	19 1162948 16°M54'44	0.58494 AU
min. Earth dist.	8158 Nov 16 15:34	4° ₹ 58'10	0.60578 AU	inferior conj	8159 Nov 01 15:05	14°M37'35	
inferior conj	8158 Nov 19 19:15	2°×19'37		minimum elong	8159 Nov 01 13:03 8159 Nov 01 21:41	14 IIL3/33	4°57'04
minimum elong	8158 Nov 20 02:20	2° × 1937 2° × 104'44		morning rise	8159 Nov 01 21:41 8159 Nov 09 15:48	10°M12'00	4 3/04
mmmum ciong	8158 Nov 20 02.20 8158 Nov 22 17:15	2 x 04 44 30°RM	5 5131	direct	8159 Nov 11 22:55	9°M54'42	
morning rise	8158 Nov 27 09:24	27°M31'38		asc. node	8159 Nov 19 19:46	13°M32'06	
direct	8158 Nov 29 14:23	27°IL31'38		morning max el	8159 Nov 20 05:43	13°M55'34	18°35'32
asc. node	8158 Dec 02 22:45	27°M58'34		morning max ci	8159 Dec 01 05:23	13 II G 33 34 0° ⊼ ¹	10 33 34
200. HOGO	8158 Dec 02 22:45 8158 Dec 05 23:53	27 IIC3634 0° √ 7		morning set	8159 Dec 01 03:23 8159 Dec 06 08:37	9° ∡ ¹43'51	
morning max el	8158 Dec 06 22:21	0° х ⁴ 0° х ⁴51'44	18°01'45	morning set	5157 DCC 00 00.57	/ ^ ¬JJJI	
morning set	8158 Dec 22 14:10	0 x · 31 44 25° x 36 '06	10 01 43	superior conj	8159 Dec 15 03:55	26° ∡ ¹36'54	1°06'25
morning set	8158 Dec 24 23:06	23 メ ・3000		minimum elong	8159 Dec 15 03:33 8159 Dec 15 07:21	26° ₹ 52'52	1°06'07
	5156 DCC 27 25.00	v O		minimum ciong	8159 Dec 15 07.21 8159 Dec 16 23:46	20 メ ・32 32	1 000/
superior conj	8159 Jan 01 13:37	13° る 48'29	0°37'35	max. Earth dist.	8159 Dec 22 12:09	9° る 52'41	1.40009 AU
minimum elong	8159 Jan 01 16:26	13 3 4025	0°37'18	desc. node	8159 Dec 24 14:03	13°る27'58	1
crong	3.1.3.1.1.0.1.10.20	50000			= •• = . 11.03	02,00	

	9150 D 26 15:55	16° る 58'44			9160 D 07 11-24	200.755150	
evening rise	8159 Dec 26 15:55			evening rise	8160 Dec 07 11:24	28°♂55'58 0°舌	
	8160 Jan 03 17:42	0° ≈			8160 Dec 08 01:58		
	8160 Jan 25 05:18	0° ∀		desc. node	8160 Dec 10 11:05	4° る 07'01	
evening max el	8160 Jan 30 11:56	5°) 49′00	23°54'08		8160 Dec 27 02:29	0° ≈	
retrograde	8160 Feb 10 11:29	12° ∺ 16′39		evening max el	8161 Jan 12 01:06	19° ≈ 36′02	25°10'48
evening set	8160 Feb 15 16:50	10°) €06'09		retrograde	8161 Jan 24 00:36	26° ≈ 32'01	
asc. node	8160 Feb 15 18:54	10° ₩ 01'45		evening set	8161 Jan 29 18:46	24° ≈ 08'46	
min. Earth dist.	8160 Feb 20 11:17	4°) (34′51	0.68220 AU	asc. node	8161 Feb 01 15:58	21° ≈ 09'57	
inferior conj	8160 Feb 21 03:52	3°) 38′28	1°41'12	min. Earth dist.	8161 Feb 03 05:40	19° ≈ 12'07	0.67632 AU
minimum elong	8160 Feb 21 01:51	3°) 45′20	1°40'35	inferior conj	8161 Feb 04 09:41	17° ≈ 40'54	0°53'41
8	8160 Feb 23 23:37	30°R≈		minimum elong	8161 Feb 04 08:25	17° ≈ 45'01	0°53'18
morning rise	8160 Feb 26 10:52	27°≈35'09		morning rise	8161 Feb 09 22:22	11°≈45'15	0 33 10
direct	8160 Mar 01 12:05	26°≈02'19		direct	8161 Feb 13 11:08	11°≈33'32	
direct							10026120
	8160 Mar 08 21:14	0°) (morning max el	8161 Feb 20 14:41	14° ≈ 31'18	19°26'29
morning max el	8160 Mar 09 11:30		20°31'24		8161 Mar 04 11:43	0° ∀	
desc. node	8160 Mar 21 13:39	15° ∺ 53'58		greatest brilliancy	8161 Mar 05 11:27	1° ∺ 27'46	-0.7m
	8160 Mar 31 03:31	0 ° $\mathbf{\Upsilon}$		desc. node	8161 Mar 08 10:37	5°) 54′21	
morning set	8160 Apr 07 09:23	11° Y 04'56		morning set	8161 Mar 17 07:43	19° ∺ 29'02	
max. Earth dist.	8160 Apr 16 10:00	25° Y 20'34	1.43461 AU		8161 Mar 24 02:31	0° Y	
	8160 Apr 19 06:52	0°8		max. Earth dist.	8161 Mar 29 23:42	9° Ƴ 13'46	1.44801 AU
	1						
superior conj	8160 Apr 22 20:46	5° 8 54'20	-2°09'53	superior conj	8161 Apr 02 21:17	15° Y 25'29	-2°08'51
minimum elong	8160 Apr 22 23:27	6° 8 05'31	2°09'55	minimum elong	8161 Apr 02 17:23	15° Υ 09'54	
evening rise	8160 May 05 04:58	27° 8 05'39	2 07 55	minimum ciong	8161 Apr 11 20:56	0°8	2 00 43
evening rise		27 O 03 39 0° Ⅱ			•	_	
	8160 May 06 20:41			evening rise	8161 Apr 16 23:26	8° 8 28'10	
asc. node	8160 May 13 17:51	11° Ⅲ 50′18			8161 Apr 30 05:56	0° Π	
evening max el	8160 May 22 07:22	23° Ⅱ 40'40	18°05'36	asc. node	8161 Apr 30 14:54	0°∏32'33	
retrograde	8160 May 28 18:54	27° Ⅱ 01'41		evening max el	8161 May 05 20:35	7° Ⅱ 04'22	18°17'44
evening set	8160 May 31 11:38	26° Ⅲ 26′13		retrograde	8161 May 12 06:04	10° Ⅱ 29'23	
inferior conj	8160 Jun 06 21:26	21° Ⅱ 20'34	2°41'52	evening set	8161 May 15 05:54	9° ∏ 40′52	
minimum elong	8160 Jun 07 00:13	21° Ⅱ 13'27	2°41'06	inferior conj	8161 May 21 04:07	4° Ⅱ 16'57	3°12'04
min. Earth dist.	8160 Jun 09 21:57	18° Ⅱ 17'36	0.61811 AU	minimum elong	8161 May 21 05:46	4° Ⅱ 12'15	3°11'43
morning rise	8160 Jun 13 10:48	15° Ⅱ 17'40		min. Earth dist.	8161 May 23 14:57	1° Ⅲ 30′10	0.63893 AU
desc. node	8160 Jun 17 13:13	13° Ⅱ 16'53			8161 May 25 01:05	30°R ႘	
direct	8160 Jun 20 04:15	12° I I55'36		morning rise	8161 May 27 04:29	28° 8 03'24	
		20°II56'23	27055124	direct	•	_	
morning max el	8160 Jul 04 08:30		27°55'34		8161 Jun 02 22:11	25° 8 22'53	
	8160 Jul 12 04:28	0°€		desc. node	8161 Jun 04 10:14	25° 8 30'08	
	8160 Jul 31 04:11	$0^{\circ}\Omega$			8161 Jun 13 00:44	Π °0	
morning set	8160 Aug 06 21:26	13° Ω 06′21		morning max el	8161 Jun 16 17:36	3° Ⅱ 23'57	27°38'05
asc. node	8160 Aug 09 17:11	18° Ω 59'10			8161 Jul 06 15:16	0	
max. Earth dist.	8160 Aug 12 12:55	25° Ω 02'37	1.32035 AU	morning set	8161 Jul 21 15:53	26° © 54'28	
					8161 Jul 23 04:56	$0^{\circ}\Omega$	
superior conj	8160 Aug 14 08:23	28° Ω 59'51	0°45'46	max. Earth dist.	8161 Jul 26 14:18	6° Ω 59'16	1.32866 AU
minimum elong	8160 Aug 14 06:31	28° Ω 49'33	0°45'18	asc. node	8161 Jul 27 14:11	9° Ω 05'05	
Č	8160 Aug 14 19:21	0° m					
evening rise	8160 Aug 21 03:43	13° m 52'21		superior conj	8161 Jul 29 14:43	13° Ω 23'55	0°20'26
evening rise	8160 Aug 29 04:13	ე° ი		minimum elong	8161 Jul 29 13:44	13° Ω 18'39	0°20'07
desc. node	-	0 = 22° £ 37'14		=	8161 Aug 05 15:21	28° Ω 32'59	0 2007
	8160 Sep 13 12:10		24022107	evening rise	•		
evening max el	8160 Sep 15 13:04	24° £ 41'42	24-33-07		8161 Aug 06 07:46	0° my	
_	8160 Sep 22 18:57	0°M			8161 Aug 23 14:37	0∘ ⊽	
retrograde	8160 Sep 29 08:06	1°M37'37		evening max el	8161 Aug 28 00:28	4° £ 55'34	22°54'09
evening set	8160 Oct 04 13:37	0°M36'50		desc. node	8161 Aug 31 09:16	7° ≏ 49'18	
	8160 Oct 06 00:39	30° ŖΩ		retrograde	8161 Sep 10 06:55	11° ≏ 33'20	
min. Earth dist.	8160 Oct 10 00:03	27° ≏ 48'23	0.56615 AU	evening set	8161 Sep 14 00:10	11° ≏ 03'03	
inferior conj	8160 Oct 12 14:44	26° £ 08'59	-5°32'02	min. Earth dist.	8161 Sep 21 08:46	7° Ω 43'42	0.55250 AU
minimum elong	8160 Oct 12 16:53	26° ჲ 05'33	5°31'52	inferior conj	8161 Sep 22 19:20	6° £ 54'03	-5°21'41
morning rise	8160 Oct 20 22:20	22° ჲ 05'30		minimum elong	8161 Sep 22 14:03	7° Ω 01'39	
direct	8160 Oct 23 12:46	21° £ 47'05		morning rise	8161 Oct 01 06:00	3° Ω 04'55	
morning max el	8160 Nov 02 02:48	26° ₽ 19'03	19°31'17	direct	8161 Oct 04 07:50	2° ≏ 42'52	
morning max or	8160 Nov 05 10:46	0°M	1, 5111	morning max el	8161 Oct 04 07:30 8161 Oct 15 11:18	2 = 42 32 7° £ 55'41	20°49'15
asa nodo				•			47 13
asc. node	8160 Nov 05 16:46	0°M19'01		asc. node	8161 Oct 23 13:46	18° Ω 04'23	
morning set	8160 Nov 19 11:03	24°M12'35			8161 Oct 30 08:20	0°M	
	8160 Nov 22 07:59	0°⊀		morning set	8161 Nov 03 18:39	8°M54'31	
		=					
superior conj	8160 Nov 27 10:25	10° ≯ 11'05	1°26'07	superior conj	8161 Nov 11 04:39	24°M18'33	1°37'28
minimum elong	8160 Nov 27 13:08	10° ≯ 24'21	1°26'01	minimum elong	8161 Nov 11 06:05	24°M25'56	1°37'32
max. Earth dist.	8160 Dec 03 18:00	22° х 12′53	1.37843 AU		8161 Nov 14 00:05	0° ⊀	

max. Earth dist.	8161 Nov 16 02:24	4° ≯ 08'31	1.35824 AU	morning set	8162 Oct 19 05:14	23° ≏ 42'54	
evening rise	8161 Nov 20 01:52	11° х 43'33			8162 Oct 22 04:07	0° M	
desc. node	8161 Nov 27 08:08	24° ₹ 36'41					
	8161 Nov 30 14:15	0°₹		superior conj	8162 Oct 26 06:58		1°41'27
	8161 Dec 22 08:17	0° ≈		minimum elong	8162 Oct 26 07:05	8°M48'53	1°41'33
evening max el	8161 Dec 25 14:08	3° ≈ 21′25	26°16'51	max. Earth dist.	8162 Oct 29 17:51	16°M02'09	1.34133 AU
retrograde	8162 Jan 07 08:48	10° ≈ 35′04		evening rise	8162 Nov 03 07:24	25°M11'32	
evening set	8162 Jan 13 15:22	8° ≈ 02'27			8162 Nov 05 19:40	0° ∡	
min. Earth dist.	8162 Jan 17 19:40	3° ≈ 40′29	0.66664 AU	desc. node	8162 Nov 14 05:13	14° ₹ ′51'39	
inferior conj	8162 Jan 19 11:14	1° ≈ 39'30	-0°01'31		8162 Nov 24 01:37	0°₹	
minimum elong	8162 Jan 19 11:16	1° ≈ 39′23	0°01'23	evening max el	8162 Dec 08 03:14	16° る 57'59	27°05'01
transit middle	8162 Jan 19 11:16	1° ≈ 39'23	0°01'23	retrograde	8162 Dec 21 11:20	24° る 18'27	
transit begin	8162 Jan 19 08:24	1° ≈ 48′10		evening set	8162 Dec 28 04:38	21° る 42'01	
transit end	8162 Jan 19 14:08	1° ≈ 30'37		min. Earth dist.	8163 Jan 01 03:10	17° る 54'07	0.65337 AU
asc. node	8162 Jan 19 13:03	1° ≈ 33'54		inferior conj	8163 Jan 03 06:20	15° පි 29'51	-1°03'40
	8162 Jan 20 20:18	30°₽₹		minimum elong	8163 Jan 03 08:13	15° පි 24'34	1°02'43
morning rise	8162 Jan 25 07:54	25° る 53'33		asc. node	8163 Jan 06 10:08	12° る 10'21	
direct	8162 Jan 28 09:43	25° පි 00'02		morning rise	8163 Jan 09 13:04	9° ට 55'59	
morning max el	8162 Feb 04 01:03	28° る 35'49	18°37'13	direct	8163 Jan 12 05:47	9° ට 16'54	
	8162 Feb 05 09:03	0° ≈		morning max el	8163 Jan 18 16:19	12° る 41'49	18°04'33
desc. node	8162 Feb 23 07:34	26° ≈ 12'42			8163 Jan 30 22:49	0° ≈	
morning set	8162 Feb 25 00:00	28° ≈ 52'01		morning set	8163 Feb 05 21:35	9° ≈ 43'27	
	8162 Feb 25 17:15	0° ∀		desc. node	8163 Feb 10 04:32	16° ≈ 43'55	
max. Earth dist.	8162 Mar 12 17:38	23°) €33'34	1.45456 AU		8163 Feb 18 10:40	0° ∀	
superior conj	8162 Mar 13 04:30	24° ₩ 16'07	-1°47'37	superior conj	8163 Feb 20 11:52	3° 升 14'52	-1°09'45
minimum elong	8162 Mar 12 19:14	23° ∺ 39'50	1°46'50	minimum elong	8163 Feb 20 03:53	2°) 43′18	1°08'40
Č	8162 Mar 16 20:14	0 $^{\circ}$ $\mathbf{\Upsilon}$		max. Earth dist.	8163 Feb 23 13:04	8° ₩ 03'01	1.45372 AU
evening rise	8162 Mar 28 18:22	18° Ƴ 52'13		evening rise	8163 Mar 08 16:17	28° ∺ 29'03	
Č	8162 Apr 04 17:48	0°8		S	8163 Mar 09 15:48	$_{0}^{\circ}\Upsilon$	
greatest brilliancy	8162 Apr 05 23:05	1° 8 55'57	-0.8m	greatest brilliancy	8163 Mar 21 20:13	18° Ƴ 37'50	-0.7m
asc. node	8162 Apr 17 11:59	18° 8 37'07		8	8163 Mar 29 22:32	0°8	
evening max el	8162 Apr 19 07:43	20° 8 36'57	18°47'51	evening max el	8163 Apr 02 14:45	4° 8 14'13	19°34'45
retrograde	8162 Apr 25 23:57	24° 8 18'40		asc. node	8163 Apr 04 09:05	5° 8 52'48	
evening set	8162 Apr 29 07:08	23° 8 16'09		retrograde	8163 Apr 09 21:23	8° 8 23'43	
inferior conj	8162 May 04 21:31	17° 8 35'47	3°23'29	evening set	8163 Apr 13 12:38	7° 8 06'29	
minimum elong	8162 May 04 21:48	17° 8 34'51	3°23'21	inferior conj	8163 Apr 18 22:20	1° 8 11'17	3°20'07
min. Earth dist.	8162 May 06 17:05	15° 8 20'36	0.65651 AU	minimum elong	8163 Apr 18 21:26	1° 8 14'14	
morning rise	8162 May 10 11:52	11° 8 18'04	0.00001110	mmmum ereng	8163 Apr 19 19:52	30° R Υ	3 1,00
direct	8162 May 16 23:44	8° 8 31'02		min. Earth dist.	8163 Apr 20 02:55		0.66995 AU
desc. node	8162 May 22 07:15	10° 8 02'16		morning rise	8163 Apr 24 05:55	24°Υ53'32	0.00330110
morning max el	8162 May 30 04:09	16° 8 19'56	26°48'31	direct	8163 Apr 30 07:35	22° Υ 11'33	
morning max or	8162 Jun 10 11:17	0°II	20 1031	desc. node	8163 May 09 04:13	26° Y 22'26	
	8162 Jun 29 11:33	0°©		morning max el	8163 May 12 13:59	29° Y 32'25	25°35'34
morning set	8162 Jul 04 23:43	10°908'58		morning max cr	8163 May 13 00:45	0°8	23 33 34
max. Earth dist.	8162 Jul 09 05:39	18°927'01	1.34181 AU		8163 Jun 04 07:46	0°II	
max. Lartii dist.	0102 Jul 07 03.37	10 32/01	1.54101 AC	morning set	8163 Jun 17 16:57	22° II 39'20	
superior conj	8162 Jul 13 15:09	27° 5 26'16	-0°08'26	max. Earth dist.	8163 Jun 21 09:55	29° II 32'19	1.35961 AU
minimum elong	8162 Jul 13 15:37	27° 5 28'41		max. Earth dist.	8163 Jun 21 15:46	0°9	1.55701710
behind sun begin	8162 Jul 13 10:42	27°503'06	0 00 20		0103 Jun 21 13.40	0 0	
behind sun end	8162 Jul 13 20:32	27°954'17		superior conj	8163 Jun 27 07:05	11° © 00'24	-0°39'37
asc. node	8162 Jul 14 11:11	29°9510'48		minimum elong	8163 Jun 27 09:26	11°912'13	
asc. node	8162 Jul 14 20:34	0°Ω		asc. node	8163 Jul 01 08:12	19°512'49	0 3717
ovening rise		13° Ω 04'43			8163 Jul 05 07:42	27°S22'03	
evening rise	8162 Jul 21 01:22 8162 Jul 29 17:07	0°M)		evening rise	8163 Jul 06 14:49	27 2 32203	
evening max el	8162 Jul 29 17.07 8162 Aug 09 18:08	0 ily 15° Mp 19'05	21010142	evening max el	8163 Jul 23 00:18	26° Ω 20'05	2000050
•	•		21 1943	evening max er			20 00 39
desc. node	8162 Aug 21 20:20	20° Mp 47'32		ratraceada	8163 Jul 27 19:46	0°順 1°m28'20	
retrograde	8162 Aug 21 20:30	21° Mp 18'52		retrograde	8163 Aug 02 10:28	1° Mp 28'29	
evening set	8162 Aug 24 06:54	21° Mp 05'12	1016115	evening set	8163 Aug 04 07:51	1° Mp 19'05	
inferior conj	8162 Sep 02 12:39	17° Mp 07'34		desc. node	8163 Aug 05 03:26	1°M(09'29	
minimum elong	8162 Sep 02 03:08	17° Mp 20'55		: <i>C</i> :	8163 Aug 08 11:26	30°R Ω	2020105
min. Earth dist.	8162 Sep 02 17:39		0.54689 AU	inferior conj	8163 Aug 13 08:34	27° Ω 19'39	
morning rise	8162 Sep 11 00:07	13° Mp 15'06		minimum elong	8163 Aug 13 01:46	27° Ω 29'53	
direct	8162 Sep 14 16:27	12° Mp 45'52	2202701	min. Earth dist.	8163 Aug 15 04:35		0.55090 AU
morning max el	8162 Sep 27 07:43	18° M 45'44	22-26-01	morning rise	8163 Aug 21 18:05	23° Ω 03'53	
000 m-J-	8162 Oct 06 10:37	0° Ω 6° Ω 24'07		direct	8163 Aug 26 04:34	22° Ω 20'56	2/01/11/0
asc. node	8162 Oct 10 10:47	6° £ 34'07		morning max el	8163 Sep 08 20:53	29° Ω 04'37	24 11 48

Michael Mich		8163 Sep 09 19:43	0° m)			8164 Sep 04 23:37	0° m/y	
Seption conj	asa node	•	-		asc node	•	-•	
Separate	asc. node	-					-•	
Page	morning set	-			morning set	•	=	
minimum clong 816 Oct 10 134 23 23 23 23 24 24 24	morning sec	0103 001 03 10.30	0 —32 12			01015 c p 20 00.15	~	
miniman ellong Ris Oct 10 134 21 22 23 23 28 24 23 23 23 24 23 23 23	superior coni	8163 Oct 10 14:35	23° £ 31'45	1°38'56	superior coni	8164 Sep 24 01:17	8° ₽ 22'09	1°30'36
max. Earth dist. 8163 Oct 12 1749 25°40852 L 32866 AU max. Earth dist. 8164 Oct 01052 S 29°4376 L 29°40 AU 1294 AU evening rise 8163 Oct 18 0019 9°11,0008 desc. node 8164 Oct 01052 S 29°40 AU 27°4074 AU 20°40 AU </td <td></td> <td></td> <td>23°£26'12</td> <td>1°38'56</td> <td></td> <td>•</td> <td></td> <td></td>			23° £ 26'12	1°38'56		•		
Securing rise Si63 Oct 13 1436 O'R O'R Securing rise Si64 Oct 10 10:28 29-30-14 Si65 Oct 10 05:12 O'R Securing rise Si64 Oct 10 13:39 O'R Si65 Oct 10 10:17 49-3450 O'R Si65 Nov 10 09:12 O'R Securing rise Si64 Oct 12 13:39 O'R Si65 Nov 10 09:12 O'R Securing rise Si64 Oct 12 13:39 O'R Si65 Nov 10 09:18 O'R Securing rise Si64 Oct 12 13:39 O'R Securing rise Si65 Nov 10 10:18 O'R Securing rise Si64 Nov 12 14:9 O'R Si65 Nov 10 10:18 O'R Securing rise Si64 Nov 12 14:9 O'R Si65 Nov 10 10:18 O'R Securing rise Si64 Nov 12 14:9 O'R Si65 Nov 10 10:18 O'R Securing rise Si64 Nov 12 14:9 O'R Si65 Nov 10 10:18 O'R Securing rise Si64 Nov 12 14:9 O'R Si65 Nov 10 10:18 O'R Securing rise Si64 Nov 12 14:9 O'R Si65 Nov 10 10:18 O'R Securing rise Si64 Nov 12 14:9 O'R Si65 Nov 10 10:18 O'R Securing rise Si64 Nov 12 14:9 O'R Si66 Nov 10 10:18 O'R Securing rise Si64 Nov 12 14:9 O'R Si66 Nov 10 10:18 O'R Securing rise Si64 Nov 12 14:9 O'R Si66 Nov 10 10:18 O'R Securing rise Si64 Nov 12 14:9 O'R Si66 Nov 10 10:18 O'R Securing rise Si64 Nov 12 14:9 O'R Si66 Nov 10 10:18 O'R Securing rise Si64 Nov 12 14:9 O'R Si66 Nov 10 10:18 O'R Securing rise Si64 Nov 12 14:9 O'R Si66 Nov 10 10:18 O'R Securing rise Si64 Nov 12 14:9 O'R Si66 Nov 10 10:18 O'R Securing rise Si64 Nov 12 14:9 O'R Si66 Nov 10 10:18 O'R Securing rise Si64 Nov 12 14:9 O'R Si66 Nov 10 10:18 O'R Securing rise Si64 Nov 12 14:9 O'R Si66 Nov 10 10:18 O'R Securing rise Si64 Nov 12 14:9 O'R Si66 Nov 10 10:18 O'R Securing rise Si64 Nov 12 14:9 O'R Si66 Nov 10 10:18 O'R Securing rise Si64 Nov 12 14:9 O'R Si66 Nov 10 10:18 O'R Securing rise Si64 Nov 12 14:9 O'R Si66 Nov 10 10:18 O'R Securing rise Si64 Nov 12 14:9 O'R Si66 Nov 10 10:18 O'R S	•	8163 Oct 12 17:49	28° ≏ 08'52	1.32866 AU	- C	•	10° ≏ 30'36	1.32046 AU
Second Silis Oct 18 obt 19 9 11 11 12 13 13 13 13 13		8163 Oct 13 14:36	0°M₊		evening rise	•	23° △ 30'41	
	evening rise	8163 Oct 18 00:19	9° M .10'08			8164 Oct 04 05:54	0° M	
centing max of sinds Now 20 09-12 (centing max of sinds Now 20 15-15) 0°B1427 (272806) evening set sinds Now 20 15-15 (0.515) 0°B1427 (272806) evening set entrograde 8164 Now 12 15-15 (0.55) 5°B1307 (272707) evening set entrograde 8164 Now 22 14-15 (1.55) 1°F95123 (1.77840) evening set entrograde 8164 Now 22 14-15 (1.55) 1°F95123 (1.77840) 0.61717 AU inferior conj 8163 Dec 16 10-08 (1.52) 30°N,8° minimum clong 8164 Now 20 14-15 (1.57840) 0.61717 AU inferior conj 8163 Dec 17 0-2029 28°x5435 (2.7925) direct 8164 Dec 00 0.318 (6.78212) 3°x5401 menning race 8163 Dec 21 0-151 (23°x5407) morning max el 8164 Dec 0.042 (2.7828) 8164 Dec 0.0412 7°x5400 direct 8164 Dec 0.048 (2.78212) 174904 morning set (8.164 Dec 10 0.148 (8.164 D		8163 Oct 29 05:12	0° ∡ ¹		desc. node	8164 Oct 17 23:20	24°M07'54	
Pecuning and \$165 Now 20 15:15 0"6"1477 2"72806 retorgade \$164 Now 15 1948 20"8"10"32 retorgande \$165 Now 20 14:15 15"8"01"3 0.61717 AU min. Farth dist. \$165 Now 20 14:15 15"8"01"2 0.61717 AU min. Farth dist. \$165 Now 20 14:15 15"8"01"2 0.61717 AU min. Farth dist. \$165 Now 20 14:15 15"8"01"2 0.61717 AU min. Farth dist. \$165 Now 20 14:15 15"8"01"2 0.61717 AU min. Farth dist. \$165 Now 20 14:15 12"8"1838 3"2205 3"18"38 3"2205 3"18"38 3"2205 3"18"38 3"2205 3"18"38 3"2205 3"18"38 3"2205 3"18"38 3"2205 3"18"38 3"2205 3"18"38 3"2205 3"18"38 3"2205 3"18"38 3"2205 3"18"38 3"2205 3"18"38 3"2205 3"18"38 3"2205 3"18"38 3"2205 3"18"38 3"2205 3"18"38 3"2205 3"18"38 3"2205 3"18"38 3"2205 3"18"38 3"205 3"18	desc. node	8163 Nov 01 02:17	4° ∡ °45′01			8164 Oct 21 23:56	0°∡7	
Processing set 1816 180 1975 1878 1878 1879		8163 Nov 20 09:12	8°0		evening max el	8164 Nov 01 23:49	12° ∡ ′57'34	27°20'14
Peculiar Sid Sid Dec 1 07.55 5°50037 min. Earth dist. Sid Sid Nov 26 415 15°50120 07.0171 AU min. Earth dist. Sid Sid Dec 16 19.08 30°k.24 minimum elong 8164 Nov 29 20.35 12°70427 3°18'38 3°102'60 07.00 30°k.24 2°11'13 minimum elong 8165 Nov 29 20.35 12°70427 3°18'38 3°102'60 07.00 3°18'38 3°102'60 07.00 3°18'38 3°102'60 07.00 3°18'38 3°102'60 3°18'38 3°102'60 3°18'38 3°102'60 3°18'38 3°102'60 3°18'38 3°102'60 3°18'38	evening max el	8163 Nov 20 15:15	0°る14'27	27°28'06	retrograde	8164 Nov 15 19:45	20° √ 10'32	
min. Earth dist. 8163 Dec 16 1908 1°54479 0.5887 AU minerior conj 8164 Nov 29 1.419 12°2*81838 3°20°56 inferior conj 8163 Dec 17 1623 29°20°524 2°11113 monimum elong 8164 Nov 29 0.35 12°2*0°127 3°18'38 omriming mes 8163 Dec 19 103 29°496'37 direct 8164 Dec 10 0.412 7°2*0°126 asc. node 8163 Dec 24 0.711 23°85'917 morning max el 8164 Dec 20 0.013 0°7*0°126 direct 8163 Dec 25 0.048 29°87'81801 morning set 8164 Dec 20 0.013 0°7*0°126 morning max el 8164 Jun 0.20 09:36 26°874129 17°4904 morning set 8164 Jun 0.20 09:36 26°874129 17°4904 morning set 8164 Jun 23 10:25 9°82720 desc. node 8165 Jun 11 15:32 24°551738 desc. node 8164 Jun 23 10:25 7°82720 desc. node 8165 Jun 11 17:02 24°551738 superior conj 8164 Feb 10 0.248 0°34 0°24 0°220 max. Earth dist. 8165 Jun 13 12:22 28°50738 14°3134 AU verni	retrograde	8163 Dec 04 07:18	7° る 33'07		evening set	8164 Nov 22 21:57	17° ∡ *51′23	
Inferior conj S163 Dec 16 1908 30°Rg.* minimum clong S164 Dec 27 22°F.* 2012 7°F.* 278 20 20 20 20 20 20 20 2	evening set	8163 Dec 11 07:55	5° る 00'37		min. Earth dist.	8164 Nov 26 14:15	15° ₹ 01'20	0.61771 AU
institute cool minimum clong max el minimum clong minimum clo	min. Earth dist.	8163 Dec 15 01:56	1° る 44'29	0.63687 AU	inferior conj	8164 Nov 29 14:19	12° ≯ 18'38	-3°20'56
minimum elong minimum elon		8163 Dec 16 19:08	30°R ∡ ¹		minimum elong	8164 Nov 29 20:35	12° ∡ °04'27	3°18'38
morning rise morning rise morning rise morning max el morning set morning se	inferior conj	8163 Dec 17 16:23	29° ∡ ¹05'24	-2°11'13	morning rise	8164 Dec 06 21:22	7° ∡ 18′23	
asc. node 8163 Dec 24 07.11 23°9.5017 moming max el 8164 Dec 16 01.48 10°8.72720 17°5.138 direct 8164 Jan 02 09.50 26°8.4129 17°4.904 moming set 8164 Dec 31 19.43 5°5.0034 5°5.003	minimum elong	8163 Dec 17 20:29	28° ∡ 54'55	2°09'25	direct	8164 Dec 09 03:18	6° ∡ ¹56'40	
Since 10 10 10 10 10 10 10 1	morning rise	8163 Dec 24 10:51	23° ∡¹ 46'37		asc. node	8164 Dec 10 04:12	7° ∡ 01'26	
morning max el 8164 Jan 02 0036 06-47 0°B 26°F 4129 174904 morning set 8164 Jan 18 22:17 21°B 5378 21°B 548 2	asc. node	8163 Dec 24 07:11	23° ∡ 50′17		morning max el	8164 Dec 16 01:48		17°51'38
moming set 8164 Jan 05 06-47 0°E superior conj 8165 Jan 11 15:32 24°E3147 0°16'50	direct	8163 Dec 26 20:48	23° ∡ 18′01			8164 Dec 29 00:13		
Marching set 8164 Jan 18 22:17 21°553'8 Section Superior conj Si64 Jan 11 15:32 24°51'37 016'30 O16'45 O16'4	morning max el	8164 Jan 02 09:36		17°49'04	morning set	8164 Dec 31 19:43	5° る 03'40	
Minimum clong Si 164 Jan 23 15:58 0°se minimum clong Si 165 Jan 13 22:90 28°G0778 Si 165 Jan 13 22:90 28°G0778 Si 165 Jan 15 12:20 12:20 12:20 13:20								
desc. node 8164 Jan 28 01:29 7°≈23'20 desc. node 8165 Jan 15 01:12 0°≈ 8 superior conj 8164 Jan 31 12:55 13°≈07'14 -0°25'05 max. Earth dist. 8166 Jan 18 23:02 6°≈27'51 1.43134 AU minimum clong max. Earth dist. 8164 Feb 10 02:48 0°H 8164 Feb 10 02:48 0°H 8165 Feb 20 03:03:30 0°W evening rise 8164 Feb 11 02:48 0°H 8165 Feb 20 03:03:30 0°W 19°73'37 21°48'55 evening max el asin del Mar 13 16:27 17°P5'25'5 20°36'15 asc. node 8165 Mar 10 17:32 6°Y5'848 8 evening max el asin del Mar 21 06:11 22°P0'05'00 evening set 8165 Mar 10 17:32 6°Y5'848 8 evening set 8164 Mar 21 06:11 22°P0'06'18 inferior conj 8165 Mar 10 01:40 30°R'H evening set 8164 Mar 27 02:17 21°P0'06'18 inferior conj 8165 Mar 10 01:40 42°P'Y0'15'0 9°P'Y0'15'0 9°P0'15'0 9°P0'15'0 9°P0'15'0 9°P0'15'0 9°P0'15'0 9°P0'15'0 9°P0'15'0 9°P0'15'0 9°P0'15'0	morning set							
superior conj minimum ellong max. Earth dist. sli64 Jan 31 12:55 sli3*se0714 -0'22'05 minimum ellong max. Earth dist. sli64 Jan 31 10:11 l2*se5600 0'24'33 evening rise sli64 Feb 10 0:373 sli64 Feb 10 0:373 r9*H4732 evening max el sli65 Feb 25 0:133 0'9*H evening max el sli65 Feb 25 0:133 0'9*H evening max el sli65 Feb 26 12:241 l1*9*32:37 l2*se161 0:248 sli65 Feb 26 12:241 l1*9*32:37 l2*se164 Mar 01 2:302 0*9*P evening max el sli65 Mar 07 17:32 sli66 Mar 07 17:32 sli65 Mar 17 13:44 sli65 Mar 12 04:19 sli65 Mar 16 16:40 sli65 Mar 16 16:40 sli65 Mar 16 16:40 sli65 Mar 17 0:41 sli65 Mar 17 13:44 sli65 Mar 17 19:42 sli65 Mar 17 13:44 sli65 Mar 17 19:42 sli65 Mar 17 13:44 sli65 Mar 17 19:42 sli65 Mar 17 13:44 sli65 Mar 17 13:44 sli65 Mar 17 13:44 sli65 Mar 17 0:43 sli65 Mar 17 0:44 sli65 Mar 17 0:43 sli65 Mar 17 0:43 sli65 Mar 17 0:43 sli65 M					_			0°16'45
superior conj 8164 Jan 31 12:55 13°≈0714 -0°2505 max. Earth dist. 8165 Jan 18 23:02 6°∞2751 1.43134 AU minimum elong 8164 Fab 31 0.11 12°≈5600 0°2473 evening rise 8165 Jan 25 19:47 17°≈253 mx. Earth dist. 8164 Feb 10 07:37 22°≈26°17 1.44568 AU 8165 Feb 25 01:33 0°°V cvening rise 8164 Feb 10 03:37 7°×H4732 evening max el 8165 Feb 26 12:34 1°°79237 21°48'55 evening max el 8164 Mar 10 23:02 0°°° evening set 8165 Mar 08 03:15 6°°79'938 evening set 8164 Mar 21 06:11 22°°70'800 evening set 8165 Mar 12 04:19 5°°71'152 evening set 8164 Mar 22 10:17 21°°70'618 inferior conj 8165 Mar 17 11:54 28°*85'318 2°°39'22 inferior conj 8164 Apr 02 03:25 14°°78'11 3°0429 mini.Earth dist. 8165 Mar 17 13:44 28°*46'54 0.68346 AU minimum elong 8164 Apr 02 03:23 14°°78'11 3°04'29 mini.Earth dist. 8165 Mar 17 13:44 28°*46'54 0.68346 AU minimum elong	desc. node	8164 Jan 28 01:29	7° ≈ 23'20		desc. node			
minimum elong max. Earth dist. Earth dist. B164 Feb 106 07:37 22*se2617 1.44568 AU evening rise s164 Feb 10 20:48 0°¥ 8165 Feb 03 00:53 0°¥ 0°¥ 8165 Feb 10 30:05:30 0°¥ 0°¥ 0°€<								
max. Earth dist. 8164 Feb 16 03737 22°≈2617 1.44568 AU However the properties of t								1.43134 AU
evening rise	C				evening rise			
evening rise 8164 Feb 16 03:37 7°#4732 evening max el 8164 Mar 01 23:02 0°°°° retrograde 8165 Mar 01 03:03 6°°° 8164 Mar 15 16:27 17°P52555 20°36'15 asc. node 8165 Mar 10 16:40 8165 Mar 10 16:40 8165 Mar 12 04:19 5°°P11'52 18'P58'18 asc. node 8164 Mar 21 06:11 22°°P0500 evening set 8165 Mar 12 04:19 5°°P11'52 18'P58'18 8165 Mar 12 04:19 5°°P11'52 18'P58'11 8164 Mar 27 20:17 11:54 28°*K53'18 23°922 18°*P58'11 3°04'48 minimum elong 8165 Mar 17 09:42 29°*H00'57 23°85'1 minimum elong 8164 Mar 20 02:07 15°°P04'10 3°04'29 min. Earth dist. 8164 Mar 10 10:40 8165 Mar 17 09:42 29°*H00'57 23°85'1 minimum elong 8164 Mar 20 02:07 15°°P04'10 3°04'29 min. Earth dist. 8164 Mar 10 10:42 8165 Mar 17 09:42 29°*H00'57 23°85'1 morning max el 8164 Mar 17 09:42 29°*H00'57 23°85'1 morning max el 8164 Mar 17 09:42 29°*H00'57 23°85'1 morning max el 8164 Mar 17 09:42 29°*H00'57 23°85'1 morning max el 8164 Mar 27 20:17 11:54 28°*H31'8 23°922 min. Earth dist. 8164 Mar 17 09:42 29°*H00'57 23°85'1 morning max el 8165 Mar 17 13:44 28°*H31'8 23°922 14°*P68'11 3°04'29 morning max el 8165 Mar 17 09:42 29°*H00'57 23°85'1 morning max el 8165 Mar 17 09:42 29°*H00'57 23°85'1 morning max el 8165 Mar 17 09:42 29°*H00'57 23°85'1 morning max el 8165 Mar 17 09:42 29°*H00'57 23°83'1 morning max el 8165 Mar 17 09:42 29°*H00'57 23°93'8 48'*C424'4 48'*C42	max. Earth dist.			1.44568 AU				
Sevening max el 8164 Mar 10 23-02 0°Ψ retrograde 8165 Mar 07 17:32 6°Ψ593 8 18 18 18 16 17 17°Ψ5255 20°36¹15 asc. node 8166 Mar 08 03:15 6°Ψ5848 8 18 18 18 18 18 18								21040155
Sevening max el as la Mar 15 16:27 17°P°52'55 20°36'15 asc. node 8165 Mar 08 03:15 6°P°58'48 asc. node 8164 Mar 21 06:11 22°P°05'00 evening set 8166 Mar 12 04:19 5°P°11'152	evening rise				•			21°48'55
asc. node 8164 Mar 21 06:11 22°γ0500 evening set 8165 Mar 12 04:19 5°γ11'52 retrograde 8164 Mar 23 19:52 22°γ3843 8165 Mar 16 16:40 30°κ χ 30°κ χ 20°κ χ				20927115	C			
retrograde vening set 8164 Mar 23 19:52 22°V3843 inferior conj 8165 Mar 16 16:40 30°π	•		-,	20-36 13				
Sevening set 8164 Mar 27 20:17 21°°°06'18 inferior conj 8165 Mar 17 11:54 28°°X53'18 2°39'22 inferior conj 8164 Apr 02 03:52 14°°Y58'11 3°04'48 minimum elong 8165 Mar 17 09:42 29°\$M03'7 2°38'51 minimum elong 8164 Apr 02 02:07 15°°Y04'10 3°04'29 min. Earth dist. 8165 Mar 17 09:42 28°°X46'54 0.68346 AU minimum elong 8164 Apr 02 18:31 14°Y07'54 0.67892 AU morning rise 8164 Apr 07 07:44 8°°Y42'43 direct 8165 Mar 27 13:42 20°X33'48 direct 8164 Apr 12 20:33 6°Y15'00 morning max el 8165 Apr 06 09:15 26°X21'17 22°39'38 morning max el 8164 Apr 23 22:54 12°°Y53'09 24°09'18 desc. node 8164 Apr 23 22:54 12°°Y53'09 24°09'18 desc. node 8164 May 27 17:53 0°8 morning set 8165 May 10 10:37 14°°V53'18 22°93'38 morning set 8164 May 27 13:34 0°¶ morning set 8165 May 10 10:37 14°°V53'134 morning set 8164 May 29 14:25 4°¶ 11'29 max. Earth dist. 8165 May 10 10:37 14°V53'134 max. Earth dist. 8164 Jun 09 11:04 23°¶ 15'27 24°¶ 18'27 1°1045 minimum elong 8164 Jun 12 14:08 0°\$\$ Superior conj 8164 Jun 19 15:27 24°¶ 18'27 1°1045 minimum elong 8165 Jun 04 12:17 24°¶ 14'23'7 asc. node 8164 Jun 18 07:45 11°¶ 17'52 asc. node 8164 Jun 18 07:45 11°¶ 11'8 11'52 asc. node 8164 Jun 18 07:45 11°¶ 11'52 asc. node 8165 Jun 04 17:31 10°¶ 11'52 asc. node 8164 Jun 18 07:45 11°¶ 11'52 asc. node 8165 Jun 18 07:00 20°¶ 11'52 asc. node 8164 Jun 18 07:45 11°¶ 11'52 asc. node 8165 Jun 18 07:45 11'16°¶ 11'52 asc. node 8164 Jun 18 07:45 11'16°¶ 11'52 asc. node 8164 Jun 18 07:45 11'16°¶ 11'52 asc. node 8165 Jun 18 07:45 11'16°¶ 11'52 asc. node 8164 Jun 18 07:45 11'16°¶ 11'52 asc. node 8164 Jun 18 07:45 11'16°¶ 11'52					evening set			
minimum elong minimum elo	•				inforior aoni			2020122
minimum elong 8164 Apr 02 02:07 15°Ψ04'10 3°04'29 min. Earth dist. 8165 Mar 17 13:44 28°¥46'54 0.68346 AU min. Earth dist. 8164 Apr 02 18:31 14°Ψ07'54 0.67892 AU morning rise 8165 Mar 22 14:56 22°¥4'132 morning rise 8164 Apr 07 07:44 8°Ψ42'43 direct 8165 Mar 27 13:42 20°¥33'48 direct 8164 Apr 12 20:33 6°Ψ15'00 morning max el 8165 Apr 06 09:15 26°¥21'17 22°39'38 morning max el 8164 Apr 25 01:10 14°Ψ01'18 desc. node 8165 Apr 11 22:07 2°Ψ3708 8164 May 27 03:34 0°H morning set 8166 May 10 10:37 14°8'31'34 morning set 8164 May 29 14:25 4°H1'129 morning set 8165 May 10 10:37 14°8'31'34 max. Earth dist. 8164 Jun 09 11:04 23°H3'5'30 -1°11'18 superior conj 8165 May 19 12:48 0°H superior conj 8164 Jun 19 11:04 23°H3'5'30 -1°11'18 superior conj 8165 May 22 22:52 6°H06'53 -1°40'28 minimum elong 8164 Jun 18 07:45 11°21'15'2 minimum	•			3°04'48	-			
min. Earth dist. 8164 Apr 02 18:31 14° γ07'54 0.67892 AU morning rise 8165 Mar 22 14:56 22° χ41'32 direct 8165 Mar 27 13:42 20° χ33'48 morning rise 8164 Apr 12 20:33 6° γ15'00 morning max el 8165 Apr 06 09:15 26° χ21'17 22°39'38 morning max el 8164 Apr 12 20:33 6° γ15'00 morning max el 8165 Apr 06 09:15 26° χ21'17 22°39'38 morning max el 8164 Apr 23 22:54 12° γ75'309 24°09'18 desc. node 8165 Apr 09 17:41 0° γ desc. node 8164 May 27 03:34 0° Π morning set 8165 May 10 10:37 14° 83'134 morning set 8164 May 27 03:34 0° Π morning set 8165 May 10 10:37 14° 83'134 max. Earth dist. 8164 Jun 20 10:03 10° Π41'24 1.38086 AU 8165 May 10 10:37 14° 83'134 superior conj 8164 Jun 09 15:27 24° Π18'27 1°10'45 minimum elong 8165 May 22 22:52 6° Π06'53 1°40'28 minimum elong 8164 Jun 12 14:08 0° Φ evening rise 8165 Jun 04 02:14 <		-			•			
morning rise 8164 Apr 07 07:44 8°Y42'43 direct 8165 Mar 27 13:42 20°H33'48 direct 8164 Apr 12 20:33 6°Y15'00 morning max el 8165 Apr 06 09:15 26°H21'17 22°39'38 morning max el 8164 Apr 23 22:54 12°Y63'09 24°09'18 8165 Apr 09 17:41 0°Y		*						0.00540710
direct 8164 Apr 12 20:33 6°\gamma* 15'00 morning max el 8165 Apr 06 09:15 26°\gamma* 21''17 22°39'38 morning max el 8164 Apr 23 22:54 12°\gamma* 25''09 24°09'18 8165 Apr 09 17:41 0°\gamma* 20'\gamma* 21''18 desc. node 8165 Apr 09 17:41 0°\gamma* 20'\gamma* 37''08 8165 May 01 07:14 0°\gamma* 20'\gamma* 37''08 8165 May 10 10:37 14°\gamma* 31''14 140'\gamma* 31''09'\gamma* 31''\gamma* 31''\		•		0.070)2710	Č			
morning max el desc. node 8164 Apr 23 22:54 12°Y53'09 24°09'18 desc. node 8165 Apr 09 17:41 0°Y	•	*						22°39'38
desc. node 8164 Apr 25 01:10 14°\(\gamma\)0'18 desc. node 8165 Apr 11 22:07 2°\(\gamma\)3708		*		24°09'18		*		
May 07 17:53 0°B Morning set 8164 May 07 17:53 0°B Morning set 8164 May 27 03:34 0°Π Morning set 8164 May 29 14:25 4°Π11′29 Max. Earth dist. 8165 May 10 10:37 14°B31′34 Max. Earth dist. 8164 Jun 02 07:03 10°Π41′24 1.38086 AU S165 May 15 04:07 22°B26′14 1.40333 AU Superior conj 8164 Jun 09 11:04 23°П57′30 -1°11′18 Superior conj 8165 May 19 12:48 0°Π S165 May 19 12:48 13:49 13:4	-	*			desc. node	*		
morning set morning set morning set morning set max. Earth dist. 8165 May 10 10:37 14°\beta\beta\beta\beta\beta\beta\beta\beta		-				-		
max. Earth dist. 8164 Jun 02 07:03 10°Π41'24 1.38086 AU 8165 May 19 12:48 0°Π superior conj 8164 Jun 09 11:04 23°Π57'30 -1°11'18 superior conj 8165 May 22 22:52 6°Π06'53 -1°40'28 minimum elong 8164 Jun 09 15:27 24°Π18'27 1°10'45 minimum elong 8165 May 23 04:36 6°Π32'53 1°39'57 8164 Jun 12 14:08 0°Φ evening rise 8165 Jun 01 22:17 24°Π43'27 24°Π43'27 asc. node 8164 Jun 18 07:45 11°Φ17'52 8165 Jun 04 17:31 0°Φ 28°Π48'29 evening rise 8164 Jun 28 13:02 0°Ω 0°Ω evening max el 8165 Jun 04 17:31 0°Φ 20°Φ30'48 18°24'44 evening max el 8164 Jul 04 19:15 8°Ω05'53 19°02'27 retrograde 8165 Jun 18 00:00 20°Φ30'48 18°24'44 18°24'44 evening set 8164 Jul 13 13:47 12°Ω26'08 evening set 8165 Jul 25 12:16 24°Φ15'59 23°Φ57'31 evening set 8164 Jul 25 12:11 12°Ω14'21 inferior conj 8165 Jul 05 05:11 19°Φ23'20 1°04'19 desc. node 8164 Jul 22 00:28 9°Ω13'52 minimum elong 8165 Jul 05 07:19 19°Φ18'59 1°03'26 10°Φ26'30 inferior conj 8164 Jul 23 18:43 8°Ω02'35 0°32'51 desc. node 8165 Jul 08 14:19 16°Φ26'30 10°Φ26'30		8164 May 27 03:34	$\Pi^{\circ}0$		morning set	8165 May 10 10:37	14° 8 31'34	
superior conj 8164 Jun 09 11:04 23° Π57'30 -1°11'18 superior conj 8165 May 22 22:52 6° Π06'53 -1°40'28 minimum elong 8164 Jun 09 15:27 24° Π18'27 1°10'45 minimum elong 8165 May 23 04:36 6° Π32'53 1°39'57 asc. node 8164 Jun 12 14:08 0° © evening rise 8165 Jun 01 22:17 24° Π43'27 asc. node 8164 Jun 18 07:45 11° ©17'52 8165 Jun 04 17:31 0° © evening rise 8164 Jun 28 13:02 0° Ω evening max el 8165 Jun 04 17:31 0° © evening max el 8164 Jul 13 13:47 12° Ω26'08 evening max el 8165 Jun 18 00:00 20° ©30'48 18° 24'44 evening set 8164 Jul 13 13:47 12° Ω26'08 evening set 8165 Jun 25 12:16 24° ©15'59 retrograde 8164 Jul 15 12:11 12° Ω26'08 evening set 8165 Jul 25 12:16 24° ©15'59 evening set 8164 Jul 20 00:28 9° Ω13'52 minimum elong 8165 Jul 05 05:11 19° ©23'20 1°04'19 desc. node 8164 Jul 23 18:43 8° Ω00'03 5 0°32'51 desc. node 8165 Jul 08 14:19 16°	morning set	8164 May 29 14:25	4° Ⅱ 11'29		max. Earth dist.	8165 May 15 04:07	22° 8 26'14	1.40333 AU
minimum elong 8164 Jun 09 15:27 24°Π18'27 1°10'45 minimum elong 8165 May 23 04:36 6°Π32'53 1°39'57 asc. node 8164 Jun 12 14:08 0°Φ evening rise 8165 Jun 01 22:17 24°Π43'27 asc. node 8164 Jun 18 07:45 11°Φ17'52 asc. node 8165 Jun 04 02:14 28°Π48'29 evening rise 8164 Jun 28 13:02 0°Ω evening max el 8165 Jun 04 17:31 0°Φ evening max el 8164 Jul 04 19:15 8°Ω05'53 19°02'27 retrograde 8165 Jun 25 12:16 24°Φ15'59 retrograde 8164 Jul 13 13:47 12°Ω26'08 evening set 8165 Jun 27 17:07 23°Φ57'31 evening set 8164 Jul 15 12:11 12°Ω14'21 inferior conj 8165 Jul 05 05:11 19°Φ23'20 1°04'19 desc. node 8164 Jul 23 20:08 8°Ω00'08 -0°33'16 min. Earth dist. 8165 Jul 08 14:19 16°Φ40'13 0.58295 AU minimum elong 8	max. Earth dist.	8164 Jun 02 07:03	10° Ⅱ 41′24	1.38086 AU		8165 May 19 12:48	Π $^{\circ}0$	
minimum elong 8164 Jun 09 15:27 24°Π18'27 1°10'45 minimum elong 8165 May 23 04:36 6°Π32'53 1°39'57 asc. node 8164 Jun 12 14:08 0°Φ evening rise 8165 Jun 01 22:17 24°Π43'27 asc. node 8164 Jun 18 07:45 11°Φ17'52 asc. node 8165 Jun 04 02:14 28°Π48'29 evening rise 8164 Jun 28 13:02 0°Ω evening max el 8165 Jun 04 17:31 0°Φ evening max el 8164 Jul 04 19:15 8°Ω05'53 19°02'27 retrograde 8165 Jun 25 12:16 24°Φ15'59 retrograde 8164 Jul 13 13:47 12°Ω26'08 evening set 8165 Jun 27 17:07 23°Φ57'31 evening set 8164 Jul 15 12:11 12°Ω14'21 inferior conj 8165 Jul 05 05:11 19°Φ23'20 1°04'19 desc. node 8164 Jul 23 20:08 8°Ω00'08 -0°33'16 min. Earth dist. 8165 Jul 08 14:19 16°Φ40'13 0.58295 AU minimum elong 8								
8164 Jun 12 14:08 0°S evening rise 8165 Jun 01 22:17 24° Π43'27	superior conj	8164 Jun 09 11:04	23° Ⅱ 57'30	-1°11'18	superior conj	8165 May 22 22:52	6° Ⅱ 06'53	-1°40'28
asc. node 8164 Jun 17 05:13 9°\$06'58 asc. node 8165 Jun 04 02:14 28°\$\$\tau\text{H48'29}\$ evening rise 8164 Jun 18 07:45 11°\$\sigma\text{17'52}\$ evening max el 8164 Jun 28 13:02 0°\$\$\Omega\$ evening max el 8165 Jun 18 00:00 20°\$\sigma\text{30'48}\$ 18°24'44 evening max el 8164 Jul 13 13:47 12°\$\Omega\text{26'08}\$ evening set 8165 Jun 25 12:16 24°\$\sigma\text{55'59}\$ retrograde 8164 Jul 15 12:11 12°\$\Omega\text{26'08}\$ evening set 8165 Jul 05 05:11 19°\$\sigma\text{23'20}\$ 1°04'19 desc. node 8164 Jul 22 00:28 9°\$\Omega\text{13'152}\$ minimum elong 8165 Jul 05 07:19 19°\$\sigma\text{18'29}\$ 1°03'26 inferior conj 8164 Jul 23 18:43 8°\$\Omega\text{00'08}\$ -0°33'16 min. Earth dist. 8165 Jul 08 14:19 16°\$\sigma\text{40'13}\$ 0.58295 AU minimum elong 8164 Jul 26 18:47 5°\$\Omega\text{50'85'51}\$ 0.56376 AU morning rise 8165 Jul 18 19:15 12°\$\sigma\text{20'05'05}\$ 27°07'17	minimum elong	8164 Jun 09 15:27	24° Ⅱ 18'27	1°10'45	minimum elong	8165 May 23 04:36	6° Ⅱ 32'53	1°39'57
evening rise 8164 Jun 18 07:45 11°\$17'52 evening max el 8165 Jun 04 17:31 0°\$6 evening max el 8164 Jun 28 13:02 0°\$\Omega\$ evening max el 8165 Jun 18 00:00 20°\$30'48 18°24'44 evening max el 8164 Jul 04 19:15 8°\$\Omega\$05'53 19°02'27 retrograde 8165 Jun 25 12:16 24°\$15'59 retrograde 8164 Jul 13 13:47 12°\$\Omega\$26'08 evening set 8165 Jun 27 17:07 23°\$\sigma\$57'31 evening set 8164 Jul 15 12:11 12°\$\Omega\$14'21 inferior conj 8165 Jul 05 05:11 19°\$\sigma\$23'20 1°04'19 desc. node 8164 Jul 22 00:28 9°\$\Omega\$13'52 minimum elong 8165 Jul 05 07:19 19°\$\sigma\$18'59 1°03'26 inferior conj 8164 Jul 23 20:08 8°\$\Omega\$00'08 -0°33'16 min. Earth dist. 8165 Jul 08 14:19 16°\$\sigma\$40'13 0.58295 AU minimum elong 8164 Jul 23 18:43 8°\$\Omega\$02'35 0°32'51 desc. node 8165 Jul 08 21:31 16°\$\sigma\$6'19 morning rise 8164 Jul 31 22:06 3°\$\Omega\$08'41 direct 8165 Aug 02 04:41 20°\$\sigma\$03'05 27°\Omega\$1717		8164 Jun 12 14:08	0 \circ \odot		evening rise	8165 Jun 01 22:17	24° Ⅱ 43'27	
evening max el 8164 Jul 28 13:02 0°\$\Omega\$ evening max el 8165 Jun 18 00:00 20°\$\omega\$0'48 18°24'44 evening max el 8164 Jul 04 19:15 8°\$\Omega\$05'53 19°02'27 retrograde 8165 Jun 25 12:16 24°\$\omega\$15'59 retrograde 8164 Jul 13 13:47 12°\$\Omega\$26'08 evening set 8165 Jun 27 17:07 23°\$\omega\$57'31 evening set 8164 Jul 15 12:11 12°\$\Omega\$14'21 inferior conj 8165 Jul 05 05:11 19°\$\omega\$23'20 1°04'19 desc. node 8164 Jul 22 00:28 9°\$\Omega\$13'52 minimum elong 8165 Jul 05 07:19 19°\$\omega\$18'59 1°03'26 inferior conj 8164 Jul 23 20:08 8°\$\Omega\$00'08 -0°33'16 min. Earth dist. 8165 Jul 08 14:19 16°\$\omega\$40'13 0.58295 AU minimum elong 8164 Jul 23 18:43 8°\$\Omega\$02'35 0°32'51 desc. node 8165 Jul 08 21:31 16°\$\omega\$6'30 min. Earth dist. 8164 Jul 26 18:47 5°\$\Omega\$58'51 0.56376 AU morning rise 8165 Jul 18 19:15 12°\$\omega\$20'55 direct 8164 Aug 06 04:49 2°\$\Omega\$03'20 morning max el 8165 Aug 02 04:41 20°\$\omega\$03'05 27°07'17	asc. node	8164 Jun 17 05:13	9° 5 06'58		asc. node	8165 Jun 04 02:14	28° Ⅱ 48'29	
evening max el 8164 Jul 04 19:15 8°\$\Oscilia 05:53 19°02'27 retrograde 8165 Jul 25 12:16 24°\$\sigma 15'59 retrograde 8164 Jul 13 13:47 12°\$\Oscilia 026'08 evening set 8165 Jul 05 05:11 19°\$\sigma 23'20 1°04'19 desc. node 8164 Jul 22 00:28 9°\$\Oscilia 13'52 minimum elong 8165 Jul 05 07:19 19°\$\sigma 18'59 1°03'26 inferior conj 8164 Jul 23 20:08 8°\$\Oscilia 09'00'08 -0°33'16 min. Earth dist. 8165 Jul 08 14:19 16°\$\sigma 40'13 0.58295 AU minimum elong 8164 Jul 23 18:43 8°\$\Oscilia 05'03'25 0°32'51 desc. node 8165 Jul 08 21:31 16°\$\sigma 26'30 min. Earth dist. 8164 Jul 26 18:47 5°\$\Oscilia 50'08'51 0.56376 AU morning rise 8164 Jul 13 12:06 3°\$\Oscilia 00'08'41 direct 8165 Jul 18 19:15 12°\$\Sigma 27'07'17	evening rise	8164 Jun 18 07:45				8165 Jun 04 17:31	0	
retrograde 8164 Jul 13 13:47 12°\Omega26'08 evening set 8165 Jul 27 17:07 23°\Sigma57'31 evening set 8164 Jul 15 12:11 12°\Omega14'21 inferior conj 8165 Jul 05 05:11 19°\Sigma23'20 1°04'19 desc. node 8164 Jul 22 00:28 9°\Omega13'52 minimum elong 8165 Jul 05 07:19 19°\Sigma18'59 1°03'26 inferior conj 8164 Jul 23 20:08 8°\Omega00'08 -0°33'16 min. Earth dist. 8165 Jul 08 14:19 16°\Sigma40'13 0.58295 AU minimum elong 8164 Jul 23 18:43 8°\Omega02'35 0°32'51 desc. node 8165 Jul 08 21:31 16°\Sigma26'30 min. Earth dist. 8164 Jul 26 18:47 5°\Omega58'51 0.56376 AU morning rise 8165 Jul 12 18:10 13°\Sigma56'19 morning rise 8164 Jul 31 22:06 3°\Omega08'41 direct 8165 Jul 18 19:15 12°\Sigma20'55 direct 8164 Aug 06 04:49 2°\Omega03'20 morning max el 8165 Aug 02 04:41 20°\Sigma03'05 27°\Omega717		8164 Jun 28 13:02	$0 ^{\circ} \Omega$		evening max el	8165 Jun 18 00:00	20° © 30'48	18°24'44
evening set 8164 Jul 15 12:11 12°\Omega 14'21 inferior conj 8165 Jul 05 05:11 19°\sigma 23'20 1°04'19 desc. node 8164 Jul 22 00:28 9°\Omega 13'52 minimum elong 8165 Jul 05 07:19 19°\sigma 18'59 1°03'26 inferior conj 8164 Jul 23 20:08 8°\Omega 00'08 -0°33'16 min. Earth dist. 8165 Jul 08 14:19 16°\sigma 40'13 0.58295 AU minimum elong 8164 Jul 23 18:43 8°\Omega 02'35 0°32'51 desc. node 8165 Jul 08 21:31 16°\sigma 26'30 min. Earth dist. 8164 Jul 26 18:47 5°\Omega 58'51 0.56376 AU morning rise 8165 Jul 12 18:10 13°\sigma 56'19 morning rise 8164 Jul 31 22:06 3°\Omega 08'41 direct 8165 Aug 02 04:41 20°\sigma 03'05 27°\Omega 717'17	•			19°02'27	•			
desc. node 8164 Jul 22 00:28 9°Ω13'52 minimum elong 8165 Jul 05 07:19 19°©18'59 1°03'26 inferior conj 8164 Jul 23 20:08 8°Ω00'08 -0°33'16 min. Earth dist. 8165 Jul 08 14:19 16°©40'13 0.58295 AU minimum elong 8164 Jul 23 18:43 8°Ω02'35 0°32'51 desc. node 8165 Jul 08 21:31 16°©26'30 min. Earth dist. 8164 Jul 26 18:47 5°Ω58'51 0.56376 AU morning rise 8165 Jul 12 18:10 13°©56'19 morning rise 8164 Jul 31 22:06 3°Ω08'41 direct 8165 Aug 02 04:41 20°©03'05 27°07'17	•				=			
inferior conj 8164 Jul 23 20:08 8°\$\Omega 00'08 -0°33'16 min. Earth dist. 8165 Jul 08 14:19 16°\$\sqrt{940'13} 0.58295 AU minimum elong 8164 Jul 23 18:43 8°\$\Omega 02'35 0°32'51 desc. node 8165 Jul 08 21:31 16°\$\sqrt{926'30} min. Earth dist. 8164 Jul 26 18:47 5°\$\Omega 58'51 0.56376 AU morning rise 8165 Jul 12 18:10 13°\$\sqrt{956'19} morning rise 8164 Jul 31 22:06 3°\$\Omega 08'41 direct 8165 Aug 02 04:41 20°\$\sqrt{903'05} 27°\Omega 7'17	•				·			
minimum elong 8164 Jul 23 18:43 8° Ω02'35 0°32'51 desc. node 8165 Jul 08 21:31 16°\$26'30 min. Earth dist. 8164 Jul 26 18:47 5° Ω58'51 0.56376 AU morning rise 8165 Jul 12 18:10 13°\$56'19 morning rise 8164 Jul 31 22:06 3° Ω08'41 direct 8165 Jul 18 19:15 12°\$20'55 direct 8164 Aug 06 04:49 2° Ω03'20 morning max el 8165 Aug 02 04:41 20°\$03'05 27°07'17					•			
min. Earth dist. 8164 Jul 26 18:47 $5^{\circ}\Omega 58'51$ 0.56376 AU morning rise 8165 Jul 12 18:10 13° $\mathfrak{S}56'19$ morning rise 8164 Jul 31 22:06 $3^{\circ}\Omega 08'41$ direct 8165 Jul 18 19:15 12° $\mathfrak{S}20'55$ direct 8164 Aug 06 04:49 $2^{\circ}\Omega 03'20$ morning max el 8165 Aug 02 04:41 20° $\mathfrak{S}03'05$ 27°07'17	•							0.58295 AU
morning rise 8164 Jul 31 22:06 3° Ω08'41 direct 8165 Jul 18 19:15 12° © 20'55 direct 8164 Aug 06 04:49 2° Ω03'20 morning max el 8165 Aug 02 04:41 20° © 03'05 27° 07'17								
direct 8164 Aug 06 04:49 2°Ω03'20 morning max el 8165 Aug 02 04:41 20°503'05 27°07'17				0.56376 AU	•			
	•							25005:15
morning max ei 8164 Aug 20 10:05 9°8 \(\lambda\lambda\lambda\lambda\text{10:05} 9°8 \(\lambda\lambda\lambda\text{25°51'05} \tag{8165 Aug 10 17:15 0°6 \(\lambda\text{1}\text{10:05}\text{10:05}\text{10:05}		-		25051105	morning max el	-		27°07'17
	morning max el	8104 Aug 20 10:05	9~ 8.6 21′08	25~51.05		8165 Aug 10 17:15	0.91	

	8165 Aug 28 16:19	0° m		morning max el	8166 Jul 15 06:08	1° 5 26'16	27°48'56
asc. node	8165 Aug 31 01:41	4° Mp 51'06		monning man er	8166 Aug 04 23:40	0° Ω	2, 1000
morning set	8165 Sep 01 13:14	7° m 56'52		morning set	8166 Aug 16 18:21	22° Ω 20'21	
8	r			asc. node	8166 Aug 17 22:40	24° Ω 48'24	
superior conj	8165 Sep 08 13:05	23° m 12'22	1°16'59		8166 Aug 20 09:03	0° m)	
minimum elong	8165 Sep 08 10:51	23° m 00'02	1°16'38	max. Earth dist.	8166 Aug 22 20:12	5° m 22'40	1.31770 AU
max. Earth dist.	8165 Sep 08 10:36	22° m 58'36	1.31679 AU				
	8165 Sep 11 14:43	0∘ ত		superior conj	8166 Aug 24 00:13	7° m ,57′08	0°58'29
evening rise	8165 Sep 15 08:11	8° ഫ 04'37		minimum elong	8166 Aug 23 22:04	7° ™ 45'15	0°58'02
	8165 Sep 26 16:16	0° M		evening rise	8166 Aug 30 18:20	22° m 45'51	
desc. node	8165 Oct 04 20:25	12°M47'06			8166 Sep 03 05:20	0∘ ত	
evening max el	8165 Oct 15 01:56	24°M53'43	26°38'30		8166 Sep 21 09:10	0° M ₊	
	8165 Oct 21 20:22	0°⊀		desc. node	8166 Sep 21 17:29	0°M25'31	
retrograde	8165 Oct 28 23:47	2° ≯ 01'16		evening max el	8166 Sep 26 20:05		25°25'29
evening set	8165 Nov 04 18:27	0° ∡ 06'15		retrograde	8166 Oct 10 18:00	13°M00'58	
	8165 Nov 04 22:56	30°RM		evening set	8166 Oct 16 16:36	11°M39'29	
min. Earth dist.	8165 Nov 08 15:41	27°M30'44		min. Earth dist.	8166 Oct 21 08:04	9°M01'00	0.57655 AU
inferior conj	8165 Nov 11 20:35	24°M59'05		inferior conj	8166 Oct 24 07:58	6°M57'45	
minimum elong	8165 Nov 12 03:51	24°M44'42	4°24'38	minimum elong	8166 Oct 24 13:14	6°M48'40	5°16'02
morning rise	8165 Nov 19 15:37	20°M20'42		morning rise	8166 Nov 01 12:13	2°M42'14	
direct	8165 Nov 21 21:03	20°M02'40		direct	8166 Nov 03 21:39	2°M24'55	10056120
asc. node morning max el	8165 Nov 27 01:12 8165 Nov 29 13:28	21°M45'45 23°M49'28	18°13'35	morning max el asc. node	8166 Nov 12 16:57 8166 Nov 13 22:13	6°M37'48 7°M52'28	18°56'30
morning max er	8165 Dec 04 13:12	23 11 1. 4928	16 13 33	asc. Houe	8166 Nov 27 14:56	7 11632 28 0° √ 7	
morning set	8165 Dec 15 07:49	18° ∡ 153'54		morning set	8166 Nov 29 06:01	3° ҂ 11′23	
morning set	8165 Dec 21 05:24	0°중		morning set	0100 NOV 27 00.01	J X 11 23	
	0103 Dec 21 03.24	0 0		superior conj	8166 Dec 07 15:59	19° ∡ ³38'48	1°15'50
superior conj	8165 Dec 24 18:11	6° る 29'07	0°50'56	minimum elong	8166 Dec 07 19:12	19° × 754'11	1°15'37
minimum elong	8165 Dec 24 21:29	6°₹44'02	0°50'37		8166 Dec 13 05:34	0° ਰ	
desc. node	8165 Dec 31 19:29	18° る 52'55		max. Earth dist.	8166 Dec 14 15:14	2° ප 31'09	1.39081 AU
max. Earth dist.	8166 Jan 01 09:15	19° る 51'24	1.41226 AU	evening rise	8166 Dec 18 12:10	9° ට 16'59	
evening rise	8166 Jan 06 05:00	27° ප 52'01		desc. node	8166 Dec 18 16:30	9° ප 35'30	
	8166 Jan 07 12:37	0° ≈			8166 Dec 31 10:03	0° ≈	
	8166 Jan 27 16:12	0° ∀		evening max el	8167 Jan 22 18:11	29° ≈ 00'08	24°27'39
evening max el	8166 Feb 09 04:35	15°) 14′35	23°08'03		8167 Jan 23 19:00	0° ∀	
retrograde	8166 Feb 19 12:55	21° ∺ 22′22		retrograde	8167 Feb 03 04:44	5°) 41′54	
asc. node	8166 Feb 23 00:18	20° ∺ 22'24		evening set	8167 Feb 08 15:25	3° ∺ 25'42	
evening set	8166 Feb 24 11:13	19° 米 19'44		asc. node	8167 Feb 09 21:23	2° 升 14'59	
inferior conj	8166 Mar 01 20:33	12°) 54′01			8167 Feb 11 20:16	30° R ≈	
minimum elong	8166 Mar 01 18:19	13°) €01'41	2°04'16	min. Earth dist.	8167 Feb 13 06:28	28°≈08'58	0.68009 AU
min. Earth dist.	8166 Mar 01 10:29	13° ∺ 28'45	0.68376 AU	inferior conj	8167 Feb 14 03:56	26°≈57'05	1°22'03
morning rise	8166 Mar 07 01:22	6°) 47'12		minimum elong	8167 Feb 14 02:10	27°≈02'59	1°21'28
direct	8166 Mar 11 10:09	5°) €01'47	21015110	morning rise	8167 Feb 19 13:03	20°≈56'39	
morning max el desc. node	8166 Mar 20 00:25 8166 Mar 29 19:06	9° 米 59'40 21° 米 54'27	21°15'10	direct morning max el	8167 Feb 23 08:42	19°≈33'11	20°01'55
desc. node		0° Υ		morning max ei	8167 Mar 02 22:57 8167 Mar 08 06:41	23°≈49'48 0°) €	20-01-55
morning set	8166 Apr 04 12:57 8166 Apr 20 03:27	23° Υ 36'54		desc. node	8167 Mar 16 16:03	11° H 41'40	
morning set	8166 Apr 24 03:43	0° 8		desc. Hode	8167 Mar 28 19:48	0° Υ	
max. Earth dist.	8166 Apr 27 06:21	5° 8 02'58	1.42420 AU	morning set	8167 Mar 30 02:00	1° Υ 56'14	
	,p. 2, 00.21	- 00200		max. Earth dist.	8167 Apr 09 15:38	18° Y 29'57	1.44100 AU
superior conj	8166 May 04 13:45	17° 8 18'11	-2°02'38		ото, търг од толо о		
minimum elong	8166 May 04 18:38	17° 8 39'08		superior conj	8167 Apr 15 04:08	27° Y 24'30	-2°11'48
	8166 May 11 19:32	$\Pi^{\circ}0$		minimum elong	8167 Apr 15 04:20	27° Y 25′17	
evening rise	8166 May 15 23:20	7° Ⅱ 29'03			8167 Apr 16 18:06	0°8	
asc. node	8166 May 21 23:17	18° Ⅱ 12'25		evening rise	8167 Apr 28 06:10	19° 8 23'34	
	8166 May 29 11:30	0ಂಣ			8167 May 04 10:50	$\Pi^{\circ}0$	
evening max el	8166 Jun 01 10:48	3° © 25'57	18°07'06	asc. node	8167 May 08 20:20	7° Ⅱ 11'54	
retrograde	8166 Jun 08 04:21	6°951'37		evening max el	8167 May 16 00:03	16° Ⅱ 41′25	18°08'35
evening set	8166 Jun 10 16:41	6°523'10		retrograde	8167 May 22 09:37	20° Ⅲ 02′26	
inferior conj	8166 Jun 17 11:00	1° 5 28'52		evening set	8167 May 25 05:21	19° Ⅱ 21'40	
minimum elong	8166 Jun 17 14:04	1° 5 21'37	2°13'00	inferior conj	8167 May 31 09:45		2°57'15
	8166 Jun 19 00:31	30°RⅡ		minimum elong	8167 May 31 12:08		2°56'40
min. Earth dist.	8166 Jun 20 17:19	28° Ⅱ 25'54	0.60514 AU	min. Earth dist.	8167 Jun 03 05:00	11° Ⅱ 09'39	0.62726 AU
morning rise	8166 Jun 24 08:48	25° II 35'43		morning rise	8167 Jun 06 17:16	7° II 59'57	
desc. node	8166 Jun 25 18:33	24° II 47'18		desc. node	8167 Jun 12 15:36	5° Ⅱ 30'31	
direct	8166 Jun 30 22:27	23° II 28'49		direct	8167 Jun 13 11:47	5° Ⅱ 28'16	27052124
	8166 Jul 13 18:00	0ಂತಾ		morning max el	8167 Jun 27 12:55	13° Ⅱ 31′08	21-32-24

	0167 1 10 10 17	005			01/01/ 12/11/10	001	
	8167 Jul 10 18:17	0.ಲ			8168 Jun 12 11:18	0° I I	
marning sat	8167 Jul 28 11:55	0° Ω 6° Ω 22'59		mamina aat	8168 Jul 03 08:14 8168 Jul 14 07:41	0°© 19° © 57'22	
morning set asc. node	8167 Jul 31 17:23 8167 Aug 04 19:40	$14^{\circ} \Omega 52'13$		morning set max. Earth dist.	8168 Jul 18 22:40	19°937'22 29°9514'13	1.33366 AU
max. Earth dist.	8167 Aug 04 19:40 8167 Aug 06 01:25	$14^{\circ} \Omega 32^{\circ} 13$ $17^{\circ} \Omega 30' 48$	1.32325 AU	max. Earm dist.	8168 Jul 19 07:32	29 2 014 13	1.33300 AU
max. Earm dist.	810/ Aug 00 01.23	1/ 663046	1.32323 AU	asc. node	8168 Jul 21 16:40	4° Ω 58'22	
superior conj	8167 Aug 08 08:52	22° Ω 30'19	0°35'30	asc. node	8108 Jul 21 10.40	4 0636 22	
minimum elong	8167 Aug 08 07:18	22° Ω 21'48	0°35'06	superior conj	8168 Jul 22 12:58	6° Ω 45'48	0°08'35
minimum crong	8167 Aug 11 19:12	0°m	0 33 00	minimum elong	8168 Jul 22 12:32	6° Ω 43'30	0°08'22
evening rise	8167 Aug 15 05:56	7° m/28'03		behind sun begin	8168 Jul 22 07:48	6° Ω 18′23	
	8167 Aug 26 22:29	0ಂಹ		behind sun end	8168 Jul 22 17:16	7° Ω 08'40	
evening max el	8167 Sep 08 08:18	16° £ 24'41	23°51'34	evening rise	8168 Jul 29 17:05	22° Ω 05′26	
desc. node	8167 Sep 08 14:34	16° ≏ 39'41		•	8168 Aug 02 12:58	0° m	
retrograde	8167 Sep 21 23:59	23° ♀ 14'50		evening max el	8168 Aug 19 21:25	26° M 38'36	22°12'39
evening set	8167 Sep 26 14:13	22° £ 28'36			8168 Aug 23 22:01	0∘ ত	
min. Earth dist.	8167 Oct 02 18:46	19° ≙ 28'39	0.55951 AU	desc. node	8168 Aug 25 11:39	0° ≙ 58'54	
inferior conj	8167 Oct 04 23:08	18° ≏ 09'27	-5°34'07	retrograde	8168 Sep 01 17:33	3° ≏ 01'54	
minimum elong	8167 Oct 04 22:14	18° ≙ 10'49	5°34'03	evening set	8168 Sep 04 20:09	2° ≏ 40'31	
morning rise	8167 Oct 13 08:23	14° ≙ 13'12			8168 Sep 11 10:25	30°₽, Т р	
direct	8167 Oct 16 03:03	13° ≙ 53'38		min. Earth dist.	8168 Sep 13 03:06	29° m 03'59	0.54899 AU
morning max el	8167 Oct 26 08:54	18° ≏ 42'31	20°01'44	inferior conj	8168 Sep 13 21:30	28° m 38'07	-5°00'34
asc. node	8167 Oct 31 19:15	25° ≙ 06'30		minimum elong	8168 Sep 13 13:36	28° m 49'14	4°59'07
	8167 Nov 04 00:11	0° M .		morning rise	8168 Sep 22 08:41	24° m 50'07	
morning set	8167 Nov 13 10:59	17° M 47'00		direct	8168 Sep 25 16:38	24° Mp 25'20	
	8167 Nov 19 10:30	0°⊀		morning max el	8168 Oct 07 11:45	29° m 57'50	21°28'31
					8168 Oct 07 12:40	0∘ ಹ	
superior conj	8167 Nov 21 03:59	3° ≯ 28'58	1°31'53	asc. node	8168 Oct 17 16:16	13° ≙ 12'26	
minimum elong	8167 Nov 21 06:11	3° ∡ 39'59	1°31'52		8168 Oct 26 14:37	0°M	
max. Earth dist.	8167 Nov 26 21:25	14° ₹ 38'15	1.36956 AU	morning set	8168 Oct 27 20:07	2°M32'45	
evening rise	8167 Nov 30 16:16	21° ₹ 37'47			01(0)1 01 00 01	1.50M 1.510.1	1040100
	8167 Dec 05 10:48	0°る		superior conj	8168 Nov 04 02:01	17°M47'04	1°40'00
desc. node	8167 Dec 05 13:31	0°る11'36		minimum elong	8168 Nov 04 02:53	17°M51'36	1°40'05
	8167 Dec 25 07:29	0°≈ 12°≈ • 48!20	25940142	max. Earth dist.	8168 Nov 08 08:47	26°M32'21	1.35062 AU
evening max el	8168 Jan 05 07:23	12°≈48'20 19°≈53'11	25°40'43	evening rise	8168 Nov 10 02:44 8168 Nov 12 13:38	0° ₰ 4° ₰ 44'06	
retrograde evening set	8168 Jan 17 15:55 8168 Jan 23 15:19	19 ≈33 11 17°≈25'45		desc. node	8168 Nov 21 10:33	20° ₹ 35'57	
asc. node	8168 Jan 27 18:28	17 ≈23 43 12°≈59'05		desc. node	8168 Nov 27 06:27	20 メ ・33 37	
min. Earth dist.	8168 Jan 27 23:25	12°≈43'35	0.67264 AU	evening max el	8168 Dec 17 20:43	26° 云 32'00	26°39'58
inferior conj	8168 Jan 29 08:13	12 ≈ 43 33 10° ≈ 59'15	0°31'13	evening max er	8168 Dec 21 20:41	0°≈	20 37 36
minimum elong	8168 Jan 29 07:26	11°≈01'44		retrograde	8168 Dec 30 21:33	3°≈48'50	
morning rise	8168 Feb 04 00:00	5°≈07'10		evening set	8169 Jan 06 09:01	1°≈14'03	
direct	8168 Feb 07 07:55	4°≈03'30		8	8169 Jan 07 18:27	30°R₹	
morning max el	8168 Feb 14 05:19	7°≈50'36	19°03'28	min. Earth dist.	8169 Jan 10 10:53	27° ප 06'41	0.66150 AU
greatest brilliancy	8168 Feb 27 23:29	26° ≈ 23'38	-0.8m	inferior conj	8169 Jan 12 07:18	24° る 55'12	-0°27'05
	8168 Mar 01 08:10	0°) €		minimum elong	8169 Jan 12 08:03	24°る52'58	0°26'37
desc. node	8168 Mar 02 13:02	1°) 50′58		asc. node	8169 Jan 13 15:33	23° る 21'13	
morning set	8168 Mar 08 05:31	10°) 38′50		morning rise	8169 Jan 18 08:01	19° る 13'56	
	8168 Mar 20 15:30	0 ° $\mathbf{\Upsilon}$		direct	8169 Jan 21 05:49	18° පි 26'52	
max. Earth dist.	8168 Mar 22 07:21	2° Y 36'25	1.45175 AU	morning max el	8169 Jan 27 18:01	21° る 56'25	18°21'13
					8169 Feb 03 04:35	0° ≈	
superior conj	8168 Mar 24 19:50	6° Ƴ 34'37		morning set	8169 Feb 16 09:54	20° ≈ 39'12	
minimum elong	8168 Mar 24 13:03	6° Y 07'51	2°01'57	desc. node	8169 Feb 17 09:59	22°≈15′28	
	8168 Apr 08 09:38	0° 8			8169 Feb 22 06:36	0° ℋ	
evening rise	8168 Apr 08 14:43	0° 8 20'50					
asc. node	8168 Apr 24 17:24	25° 8 39'25		superior conj	8169 Mar 04 00:33	15° ∺ 21'39	
	8168 Apr 28 08:50	0°II	1000010	minimum elong	8169 Mar 03 14:59	14°) (44'10	
evening max el	8168 Apr 28 12:45	0° Π 09'55	18°28'26	max. Earth dist.	8169 Mar 05 02:45	17° ∺ 04'14 0° ⋎	1.45520 AU
retrograde	8168 May 04 23:56	3° Ⅱ 40′08		ovenina rias	8169 Mar 13 09:06	0°Υ' 10°Υ'22'39	
evening set	8168 May 08 02:56	2°∏45'39 30°R ႘		evening rise	8169 Mar 19 23:57	10°°γ′22′39 26° Υ 45′31	-0.8m
inferior conj	8168 May 11 10:53 8168 May 13 21:24	30°KO 27° 8 14'41	3°18'54	greatest brilliancy	8169 Mar 30 11:22 8169 Apr 01 14:20	0° 8	-0.0111
minimum elong	8168 May 13 22:28	27° 8 11'30	3°18'34 3°18'40	asc. node	8169 Apr 11 14:28	13° 8 24'54	
min. Earth dist.	8168 May 16 01:49	24° 8 39'54	0.64697 AU	evening max el	8169 Apr 11 22:22	13° 8 45'10	19°05'50
morning rise	8168 May 19 17:09	24 8 3934	0.040) / AU	retrograde	8169 Apr 18 19:40	13 8 43 10	17 03 30
direct	8168 May 26 09:12	18° 8 14'06		evening set	8169 Apr 22 06:17	16° 8 28'18	
desc. node	8168 May 29 12:38	18° 8 46'00		inferior conj	8169 Apr 27 18:18	10° 8 41'15	3°23'38
morning max el	8168 Jun 08 22:40	26° 8 11'03	27°20'21	minimum elong	8169 Apr 27 18:03	10° 8 42'01	
		. 01.00					

min. Earth dist.	8169 Apr 29 07:18	8° 8 42'59	0.66280 AU	min. Earth dist.	8170 Apr 12 19:50	23° Y 06'25	0.67427 AU
morning rise	8169 May 03 05:24	4° 8 23'19	0.00200110	morning rise	8170 Apr 17 03:02	18° Y 04'57	0.07.127.110
direct	8169 May 09 13:19	1° 8 37'27		direct	8170 Apr 22 23:19	15° Y 28'24	
desc. node	8169 May 16 09:39	4° 8 08'13		desc. node	8170 May 03 06:37	21° Υ '05'00	
morning max el	8169 May 22 09:06	9° 8 15'35	26°19'49	morning max el	8170 May 04 18:38	22° Ƴ 32'59	24°59'56
C	8169 Jun 07 15:58	$\Pi^{\circ}0$		C	8170 May 11 07:35	0°8	
	8169 Jun 25 20:09	0ಂತಾ			8170 May 31 23:23	Π°	
morning set	8169 Jun 27 09:52	2° 9 54'42		morning set	8170 Jun 09 19:20	15° Ⅱ 02'07	
max. Earth dist.	8169 Jul 01 09:33	10° © 32'31	1.34889 AU	max. Earth dist.	8170 Jun 13 10:19	21° Ⅱ 36'39	1.36832 AU
					8170 Jun 17 20:51	0ංම	
superior conj	8169 Jul 06 10:10	20° © 37'24	-0°21'27				
minimum elong	8169 Jul 06 11:24	20° 5 43'41	0°21'21	superior conj	8170 Jun 19 21:25	3° 9 56'29	-0°53'08
asc. node	8169 Jul 08 13:39	25° © 03'11		minimum elong	8170 Jun 20 00:39	4°9512'24	0°52'44
	8169 Jul 10 22:34	$0^{\circ}\Omega$		asc. node	8170 Jun 25 10:38	15° © 02'09	
evening rise	8169 Jul 14 01:51	6° £ 32′26		evening rise	8170 Jun 28 05:51	20°541'33	
	8169 Jul 26 21:47	0° ™			8170 Jul 02 23:23	$0^{\circ}\Omega$	
evening max el	8169 Aug 01 19:54	7° Mp 15'40	20°43'51	evening max el	8170 Jul 15 07:36	18° Ω 35'11	19°33'29
desc. node	8169 Aug 12 08:45	12° m 52'38		retrograde	8170 Jul 25 00:30	23° Ω 22'29	
retrograde	8169 Aug 13 05:46	12° m 54'34		evening set	8170 Jul 26 20:55	23° Ω 12'47	
evening set	8169 Aug 15 08:34	12° m 43'42		desc. node	8170 Jul 30 05:50	22° Ω 10′02	
inferior conj	8169 Aug 24 14:02	8° Mp 46'48		inferior conj	8170 Aug 04 15:22	19° Ω 08'02	
minimum elong	8169 Aug 24 04:57	8° m 59'47	3°31'18	minimum elong	8170 Aug 04 10:52	19° Ω 15'11	1°37'26
min. Earth dist.	8169 Aug 25 12:18	8° Mp 14'59	0.54739 AU	min. Earth dist.	8170 Aug 07 00:32	17° Ω 37'28	0.55535 AU
morning rise	8169 Sep 02 01:15	4° Mp 47'09		morning rise	8170 Aug 12 22:24	14° Ω 37'32	
direct	8169 Sep 06 00:52	4° mp 13'11	22010151	direct	8170 Aug 17 17:05	13° Ω 46'23	24055150
morning max el	8169 Sep 19 04:15	10° Tp 31'51	23°10'51	morning max el	8170 Aug 31 16:46	20° Ω 46′22	24°55'58
1	8169 Oct 03 10:59	0° ত		1	8170 Sep 08 15:48	0°M)	
asc. node	8169 Oct 04 13:15	1° Ω 57'52		asc. node	8170 Sep 21 10:13	21° Mp 12'16 0° <u>₽</u>	
morning set	8169 Oct 12 07:24	17° £ 22'52 0° I L			8170 Sep 25 18:14		
	8169 Oct 18 04:10	U IIL		morning set	8170 Sep 26 19:05	2° £ 11'35	
superior conj	8169 Oct 19 06:54	2°M23'50	1°41'08	superior conj	8170 Oct 03 16:04	17° ≏ 10'50	1°36'05
minimum elong	8169 Oct 19 06:30	2°M21'42	1°41'12	minimum elong	8170 Oct 03 10:04 8170 Oct 03 14:40	17° ⊆ 10′30′ 17° ⊆ 03′07	1°36'01
max. Earth dist.	8169 Oct 22 04:08	8°M31'48	1.33539 AU	max. Earth dist.	8170 Oct 05 07:05	20° £ 43′56	1.32455 AU
evening rise	8169 Oct 27 00:25	18°M26'13	1.55557 AU	max. Lartii dist.	8170 Oct 09 15:16	0° ™	1.52455 AO
evening 113e	8169 Nov 02 02:37	0° ₹		evening rise	8170 Oct 10 21:08	2°MJ34'31	
desc. node	8169 Nov 08 07:35	10° × 742'49		evening rise	8170 Oct 25 22:30	0° ∡ 7	
	8169 Nov 21 11:58	0°ਰ		desc. node	8170 Oct 26 04:39	0° ∡ 124'20	
evening max el	8169 Nov 30 09:29	10° ට 01'18	27°18'08	evening max el	8170 Nov 12 20:04	23° ×1 04'10	27°28'45
retrograde	8169 Dec 13 21:12	17° る 21'25			8170 Nov 23 18:53	0°ರ	
evening set	8169 Dec 20 18:21	14° る 45'21		retrograde	8170 Nov 26 14:16	0° る 21'33	
min. Earth dist.	8169 Dec 24 14:42	11° る 11'43	0.64683 AU		8170 Nov 29 07:35	30°₽ ⋌ ¹	
inferior conj	8169 Dec 26 22:52	8° る 39'55	-1°31'48	evening set	8170 Dec 03 16:29	27° ∡ °53′07	
minimum elong	8169 Dec 27 01:39	8° る 32'21	1°30'28	min. Earth dist.	8170 Dec 07 09:05	24° ∡ °49′18	0.62896 AU
asc. node	8169 Dec 31 12:37	4° る 19'24		inferior conj	8170 Dec 10 04:08	22° ∡ ¹06'44	-2°40'50
morning rise	8170 Jan 02 10:27	3° る 12'17		minimum elong	8170 Dec 10 09:12	21° х 54′23	2°38'45
direct	8170 Jan 05 00:04	2° る 38'05		morning rise	8170 Dec 17 03:58	16° ₹ ¹55'45	
morning max el	8170 Jan 11 10:33	6° る 00'54	17°55'49	asc. node	8170 Dec 18 09:39	16° ∡ ³36′12	
	8170 Jan 27 13:25	0° ≈		direct	8170 Dec 19 11:44	16° ∡ ³30'38	
morning set	8170 Jan 28 19:38	2° ≈ 06′18		morning max el	8170 Dec 26 03:50	19° ∡ 56′09	17°47'56
desc. node	8170 Feb 04 06:54	12° ≈ 50'36			8171 Jan 02 15:21	0°ಕ	
				morning set	8171 Jan 11 05:59	14° る 44'31	
superior conj	8170 Feb 11 13:41	24° ≈ 38'35			8171 Jan 20 01:24	0° ≈	
minimum elong	8170 Feb 11 07:47	24°≈15′02	0°50'03	desc. node	8171 Jan 22 03:52	3° ≈ 32'43	
	8170 Feb 14 22:34	0° ∀					
max. Earth dist.	8170 Feb 15 22:24	1°) (34′04	1.45118 AU	superior conj	8171 Jan 23 01:26	5° ≈ 02'48	
evening rise	8170 Feb 27 15:37	19°) 47′06		minimum elong	8171 Jan 23 00:47	5°≈00'03	0°06'21
, . 1 - 1111	8170 Mar 06 07:58	0°Υ 11° % 5 4100	0.6	behind sun begin	8171 Jan 22 16:15	4°≈24'29	
greatest brilliancy	8170 Mar 14 06:49	11° Y 54'08	-0.6m	behind sun end	8171 Jan 23 09:18	5°≈35'32	1 44000 411
evening max el	8170 Mar 26 03:05	27° Y 22'39	19°59'16	max. Earth dist.	8171 Jan 29 15:27	15°≈48'47	1.44022 AU
asc. node	8170 Mar 29 11:33	0° 8 15'19		evening rise	8171 Feb 07 03:07	29°≈09'41	
natra an- J-	8170 Mar 29 02:45	0° 8			8171 Feb 07 16:11	0° ∀ 0° Ƴ	
retrograde	8170 Apr 02 17:56	1° 8 47'03 0° 8 23'19		avaning may al	8171 Feb 28 02:03	11° Υ 01'45	21°06'03
evening set	8170 Apr 06 12:55 8170 Apr 07 00:49	0° ⊘ 23°19 30° ₹ Υ		evening max el asc. node	8171 Mar 09 02:19 8171 Mar 16 08:38	11° γ 01'45 15° γ 56'24	21 0003
inferior conj	8170 Apr 07 00:49 8170 Apr 11 21:24	30° κ ι 24° Υ 22'03	3°14'57	retrograde	8171 Mar 16 08:38 8171 Mar 17 16:22	16° Y $05'24$	
minimum elong	8170 Apr 11 21:24 8170 Apr 11 20:06	24 γ 22 03 24° γ 26'26		evening set	8171 Mar 21 20:56	16 γ 03 22 14° γ 26'33	
mmmum ciong	01/071pi 11 20.00	27 12020	J 177J	evening set	01/11 viai 21 20.30	17 12033	

inforior coni	9171 Mar 27 04:17	8° Ƴ 13'32	2055112	avanina riaa	8172 Jan 18 01:30	9° ≈ 06'13	
inferior conj	8171 Mar 27 04:17	8° Υ 20'25	2°54'47	evening rise		9° € 0613	
minimum elong	8171 Mar 27 02:18	8° γ 20 23 7° Υ 41'58			8172 Jan 31 19:29		22022111
min. Earth dist.	8171 Mar 27 13:23	1° Υ 59'12	0.68134 AU	evening max el	8172 Feb 19 20:37	24°π42'48 0°Υ	22°22'11
morning rise	8171 Apr 01 07:26			. 1	8172 Feb 27 02:23	0° Υ 27'30	
T'	8171 Apr 04 12:33	30° ₹		retrograde	8172 Feb 29 13:12	0° Υ 13'03	
direct	8171 Apr 06 14:16	29°) (39′26		asc. node	8172 Mar 02 05:44		
	8171 Apr 08 18:36	0° γ	22020157		8172 Mar 02 20:46	30° ₹ ₩	
morning max el	8171 Apr 17 03:50	5°Υ57'16	23°30'57	evening set	8172 Mar 05 04:41	28°) (33'35	2025150
desc. node	8171 Apr 20 03:34	9° Y 10'41		inferior conj	8172 Mar 10 12:50	22° ∺ 11'40	
	8171 May 05 18:04	0° 8		minimum elong	8172 Mar 10 10:34	22°) 19'32	
morning set	8171 May 22 06:42	26° 8 05'34		min. Earth dist.	8172 Mar 10 09:36	22°)(22'53	0.68411 AU
	8171 May 24 13:37	0°II		morning rise	8172 Mar 15 16:17	16° 米 01'42	
max. Earth dist.	8171 May 26 06:03	2°Щ55'42	1.39041 AU	direct	8172 Mar 20 09:09	14°) €03'04	
		—		morning max el	8172 Mar 29 15:39	19°) €28'48	22°02'32
superior conj	8171 Jun 02 19:03	16° Ⅲ 34'35		desc. node	8172 Apr 06 00:31	28°) €05'46	
minimum elong	8171 Jun 03 00:09	16° Ⅱ 58′29	1°23'39		8172 Apr 07 11:23	0° Υ	
	8171 Jun 09 19:36	0 \circ \odot			8172 Apr 27 22:27	0° 8	
evening rise	8171 Jun 12 02:17	4° © 25'30		morning set	8172 May 01 15:02	5° 8 52'33	
asc. node	8171 Jun 12 07:39	4° 9 51'29		max. Earth dist.	8172 May 07 04:32	15° 8 00'24	1.41263 AU
	8171 Jun 27 15:58	$0^{\circ}\Omega$					
evening max el	8171 Jun 28 07:13	0° Ω 38'54	18°43'56	superior conj	8172 May 14 22:33	28° 8 20'42	
retrograde	8171 Jul 06 11:33	4° Ω 42'10		minimum elong	8172 May 15 04:18	28° 8 46'10	1°50'39
evening set	8171 Jul 08 12:19	4° Ω 28'04			8172 May 15 20:55	$\Pi^{\circ}0$	
inferior conj	8171 Jul 16 11:50	0° Ω 06′00	0°11'18	evening rise	8172 May 25 11:35	17° Ⅱ 34'58	
minimum elong	8171 Jul 16 12:17	0° Ω 05'12	0°11'00	asc. node	8172 May 29 04:41	24° Ⅱ 26′08	
transit middle	8171 Jul 16 12:17	0° Ω 05′12	0°11'00		8172 Jun 01 07:25	0°€	
transit begin	8171 Jul 16 09:36	0° Ω 10′09		evening max el	8172 Jun 10 15:05	13° © 18'13	18°14'52
transit end	8171 Jul 16 14:58	0° Ω 00'14		retrograde	8172 Jun 17 17:46	16°952'44	
	8171 Jul 16 15:05	30° ₹©		evening set	8172 Jun 20 01:56	16° © 30'15	
desc. node	8171 Jul 17 02:53	29° © 38'06		inferior conj	8172 Jun 27 06:02	11° 5 47'29	1°37'22
min. Earth dist.	8171 Jul 19 17:05	27° © 44'18	0.57137 AU	minimum elong	8172 Jun 27 08:51	11° 5 641'24	1°36'19
morning rise	8171 Jul 24 08:45	24° © 58'26		min. Earth dist.	8172 Jun 30 15:25	8° © 53'01	0.59229 AU
direct	8171 Jul 29 23:55	23° © 40'35		desc. node	8172 Jul 02 23:55	7° ॐ 06′06	
	8171 Aug 12 01:32	$0^{\circ}\Omega$		morning rise	8172 Jul 04 12:40	6° © 08'21	
morning max el	8171 Aug 13 07:48	1° Ω 10'40	26°27'04	direct	8172 Jul 10 20:14	4° 5 19'04	
	8171 Sep 02 16:58	o° mp		morning max el	8172 Jul 25 05:06	12° © 08'18	27°29'34
asc. node	8171 Sep 08 07:10	10° Mp 48'10			8172 Aug 08 06:06	$0^{\circ}\Omega$	
morning set	8171 Sep 11 05:34	16° Mp 54'25			8172 Aug 24 20:35	0° m)	
	8171 Sep 17 05:30	0∘ ⊽		asc. node	8172 Aug 25 04:08	0° m/39′22	
	•			morning set	8172 Aug 25 13:11	1° Mp 26'43	
superior conj	8171 Sep 18 03:27	2° ≏ 01'41	1°25'27	max. Earth dist.	8172 Sep 01 01:47	15° m/36'05	1.31663 AU
minimum elong	8171 Sep 18 01:25	1° ≏ 50'20	1°25'12		•	•	
max. Earth dist.	8171 Sep 18 15:25	3° ჲ 07'56	1.31831 AU	superior conj	8172 Sep 01 15:13	16° m 50'35	1°09'42
evening rise	8171 Sep 25 00:56	17° ≏ 01'19		minimum elong	8172 Sep 01 12:58	16° m) 38'05	1°09'19
<i>5</i>	8171 Oct 01 12:28	0°M			8172 Sep 07 14:48	0∘ <u>⊽</u>	
desc. node	8171 Oct 13 01:44	19° M 30'04		evening rise	8172 Sep 08 09:24	1° ≏ 39'42	
	8171 Oct 20 22:47	0° ∡ 7		8	8172 Sep 23 14:11	0° M	
evening max el	8171 Oct 26 02:13	5° ≯ 28'19	27°06'43	desc. node	8172 Sep 28 22:49	7° M 46'06	
retrograde	8171 Nov 08 23:39	12° х 39′25		evening max el	8172 Oct 07 01:21	17° M .04'06	26°10'58
evening set	8171 Nov 15 23:40	10° ₹ 29'24		retrograde	8172 Oct 20 23:32	24°ML08'39	
min. Earth dist.	8171 Nov 19 16:56		0.60884 AU	evening set	8172 Oct 27 11:15	22°M27'22	
inferior conj	8171 Nov 22 19:49	5° ∡ 106'59		min. Earth dist.	8172 Oct 31 14:25	19°M52'46	0.58802 AU
minimum elong	8171 Nov 23 02:45	4° ₹ 52'09		inferior conj	8172 Nov 03 18:30	17°M31'27	
morning rise	8171 Nov 30 08:09	0° х 15′39	, -,	minimum elong	8172 Nov 04 01:24	17°ML18'34	4°49'12
morning rise	8171 Dec 01 13:25	30°RM		morning rise	8172 Nov 11 17:51	13°ML02'26	. 1,712
direct	8171 Dec 02 13:14	29°M55'59		direct	8172 Nov 14 00:26	12°M44'59	
uncet	8171 Dec 03 12:50	0° ⊼ ¹		asc. node	8172 Nov 21 03:43	15°M48'25	
asc. node	8171 Dec 05 12:30 8171 Dec 05 06:41	0° ₹ 27'10		morning max el	8172 Nov 21 03:43 8172 Nov 22 03:09	16°M41'50	18°29'10
morning max el	8171 Dec 03 00:41 8171 Dec 09 18:33	3° ₹ 32'54	17°58'33	morning max ci	8172 Nov 22 03:09 8172 Dec 01 13:09	0° √	10 27 10
morning set	8171 Dec 05 18:33 8171 Dec 25 10:21	28° 🖈 13'21	1, 5555	morning set	8172 Dec 01 13:09 8172 Dec 08 03:17	0 ✓ 12° ✓ 17'01	
morning set	8171 Dec 26 09:30	20 × 13 21		morning sot	31,2 200 00 03.17	12 7 1/01	
	51/1 1000 20 07.30	υ Ο		superior conj	8172 Dec 17 02:13	29° ∡ ¹20'02	1°02'37
superior conj	8172 Jan 04 14:45	16° පි 39'49	0°32'23	minimum elong	8172 Dec 17 02:13 8172 Dec 17 05:39	29° x *20°02 29° x *35'57	1°02'37 1°02'19
minimum elong	8172 Jan 04 17:19	16 る3949 16°る51'02		mmmum ciong	8172 Dec 17 03:39 8172 Dec 17 10:51	29 メ ・33 37	1 0217
desc. node			3 32 07	T 4 11 4			1 10001 177
acse. Houc	8172 Jan 09 00.51	24° ₹ 17'43		max Farth diet	X172 Dec 24 12:55	17° 7 411717	4()331 AII
may Farth diet	8172 Jan 09 00:51	24°る17'43 29°る34'14	1 42362 ATT	max. Earth dist.	8172 Dec 24 12:55 8172 Dec 25 21:52	12°る40'42	1.40331 AU
max. Earth dist.	8172 Jan 09 00:51 8172 Jan 12 04:23 8172 Jan 12 10:37	24°る17'43 29°る34'14 0°≈	1.42362 AU	desc. node evening rise	8172 Dec 24 12:55 8172 Dec 25 21:52 8172 Dec 28 19:59	12° ठ 40'42 15° ठ 02'18 19° ठ 57'31	1.40331 AU

	8173 Jan 04 01:08	0° ≈		evening rise	8173 Dec 10 12:19	1°る46'22	
	8173 Jan 25 01:39	0°) €		desc. node	8173 Dec 12 18:53	5° ප 42'16	
evening max el	8173 Feb 01 11:29	8° ∺ 26′53	23°42'15		8173 Dec 28 06:09	0° ≈	
retrograde	8173 Feb 12 07:03	14°)(49'27		evening max el	8174 Jan 15 00:41	22° ≈ 13'27	24°59'55
evening set	8173 Feb 17 10:37	12°) 40′53		retrograde	8174 Jan 26 20:58	29° ≈ 06′14	
asc. node	8173 Feb 17 02:49	12°) € 56'54		evening set	8174 Feb 01 13:13	26°≈44'36	
inferior conj	8173 Feb 22 21:10	6°) 13′39	1°47'45	asc. node	8174 Feb 03 23:55	24°≈15'50	
minimum elong	8173 Feb 22 19:05	6°) 20'47 7°) 04'34	1°47'06	min. Earth dist.	8174 Feb 06 01:06	21°≈42'50	0.67739 AU
min. Earth dist. morning rise	8173 Feb 22 06:15 8173 Feb 28 03:32	0°\(\)(04'34')	0.68275 AU	inferior conj minimum elong	8174 Feb 07 03:28 8174 Feb 07 02:03	20°≈16'19 20°≈20'58	1°01'26 1°00'59
morning risc	8173 Feb 28 08:29	0 7(0927 30°R≈		morning rise	8174 Feb 07 02:03 8174 Feb 12 15:09	20 ≈ 20 38 14° ≈ 19'30	1 00 39
direct	8173 Mar 04 06:42	28°≈33'23		direct	8174 Feb 16 05:38	13° ≈ 04'53	
	8173 Mar 08 13:09	0°) €		morning max el	8174 Feb 23 11:45	17° ≈ 07'10	19°35'13
morning max el	8173 Mar 12 09:43	3°) 11'48	20°42'21	C	8174 Mar 05 15:07	0° ∀	
desc. node	8173 Mar 23 21:30	17°) € 36'49		greatest brilliancy	8174 Mar 08 05:31	3°) 47′25	-0.7m
	8173 Apr 01 09:25	$0^{\circ}\mathbf{\Upsilon}$		desc. node	8174 Mar 10 18:28	7°) 34′05	
morning set	8173 Apr 10 22:02	14° Y 31'52		morning set	8174 Mar 20 19:40	22°) 52′48	
max. Earth dist.	8173 Apr 19 10:17	28° Y ′01'34	1.43208 AU		8174 Mar 25 10:06	0° Υ	
	8173 Apr 20 15:28	0° 8		max. Earth dist.	8174 Apr 01 22:59	11° Y '48'57	1.44637 AU
superior conj	8173 Apr 26 03:19	9° 8 04'51	-2°08'29	superior conj	8174 Apr 06 07:21	18° Ƴ 44'56	-2°10'16
minimum elong	8173 Apr 26 06:43	9° 8 19'07	2°08'27	minimum elong	8174 Apr 06 04:33	18° Y 33'42	2°10'16
evening rise	8173 May 08 05:28	0° Ⅱ 00'05			8174 Apr 13 05:21	0°8	
	8173 May 08 05:27	Π $^{\circ}0$		evening rise	8174 Apr 20 03:20	11° 8 31'38	
asc. node	8173 May 16 01:44	13° Ⅱ 40′27			8174 May 01 07:46	0°II	
evening max el	8173 May 25 03:21	26° Ⅲ 23'00	18°05'22	asc. node	8174 May 02 22:49	2° Ⅱ 27'49	10014145
retrograde	8173 May 31 16:07	29° ∏ 44'50		evening max el	8174 May 08 16:41	9° Ⅱ 45'00	18°14'45
evening set inferior conj	8173 Jun 03 07:43 8173 Jun 09 19:34	29° Ⅱ 11'14 24° Ⅱ 08'22	2°35'20	retrograde evening set	8174 May 15 01:57 8174 May 18 00:40	13° Ⅲ 08'41 12° Ⅲ 22'16	
minimum elong	8173 Jun 09 19:34 8173 Jun 09 22:29	24° I I08'22	2°34'30	inferior conj	8174 May 24 00:22	7° I I01'03	3°08'45
min. Earth dist.	8173 Jun 12 21:45	21° I I04'45	0.61476 AU	minimum elong	8174 May 24 00:22 8174 May 24 02:14	6° П 55'51	3°08'21
morning rise	8173 Jun 16 11:05	18° Ⅱ 07'39	0.01470710	min. Earth dist.	8174 May 26 13:28	4° Ⅱ 10'32	0.63599 AU
desc. node	8173 Jun 19 20:59	16° Ⅱ 22'16		morning rise	8174 May 30 02:30	0° П 48'28	0.05077110
direct	8173 Jun 23 03:43	15° ∏ 49′23		3	8174 May 31 05:17	30°R ∀	
morning max el	8173 Jul 07 09:04	23° Ⅱ 49′29	27°55'09	direct	8174 Jun 05 20:34	28° 8 09'50	
-	8173 Jul 12 22:11	0 \circ \odot		desc. node	8174 Jun 06 18:01	28° 8 12'24	
	8173 Aug 01 13:26	$0^{\circ}\Omega$			8174 Jun 12 00:17	$\Pi^{\circ}0$	
morning set	8173 Aug 09 16:00	15° Ω 42′02		morning max el	8174 Jun 19 17:46	6° Ⅲ 12'01	27°42'51
asc. node	8173 Aug 12 01:06	20° Ω 39'48			8174 Jul 07 20:24	0 \circ	
max. Earth dist.	8173 Aug 15 10:12		1.31951 AU	morning set	8174 Jul 24 11:43	29° 5 34'08	
	8173 Aug 16 08:57	0° т р			8174 Jul 24 16:54	0 $^{\circ}\Omega$	
	0150 1 15 01 01	10% 20155	004011.5	max. Earth dist.	8174 Jul 29 12:41	9° Ω 55'25	1.32711 AU
superior conj	8173 Aug 17 01:31	1°Mp30'55	0°49'15	asc. node	8174 Jul 29 22:06	10° Ω 45'13	
minimum elong evening rise	8173 Aug 16 23:33 8173 Aug 23 20:25	1° my 20'06 16° my 22'10	0°48'48	superior conj	8174 Aug 01 08:29	15° Ω 57'21	0°24'32
evening rise	8173 Aug 30 12:59	0° <u>Ω</u>		minimum elong	8174 Aug 01 08:29 8174 Aug 01 07:20	$15^{\circ} \Omega 51'08$	0°24'11
desc. node	8173 Sep 15 19:55	0 — 24° ⊆ 52'01		minimum ciong	8174 Aug 07 07:20 8174 Aug 07 20:15	0°m)	0 2411
evening max el	8173 Sep 18 16:25	27° Ω 49'51	24°47'11	evening rise	8174 Aug 08 08:04	1° m) 03'07	
<i>y</i>	8173 Sep 21 03:16	0°M		<i>5</i>	8174 Aug 24 07:57	0∘ <u>⊽</u>	
retrograde	8173 Oct 02 12:20	4°M47'36		evening max el	8174 Aug 31 03:40	8° ჲ 05'07	23°08'57
evening set	8173 Oct 07 22:47	3°M41'24		desc. node	8174 Sep 02 16:59	10° ≏ 21'09	
min. Earth dist.	8173 Oct 13 03:35	0°M56'12	0.56874 AU	retrograde	8174 Sep 13 13:07	14° ≏ 46'54	
	8173 Oct 14 14:37	30° ₹ Ω		evening set	8174 Sep 17 11:42	14° ≏ 12'55	
inferior conj	8173 Oct 15 21:14	29° ჲ 10'06		min. Earth dist.	8174 Sep 24 12:41	10° ჲ 58'58	0.55409 AU
minimum elong	8173 Oct 16 00:21	29° ≏ 05'02	5°29'03	inferior conj	8174 Sep 26 04:19	10° ≏ 01'21	
morning rise	8173 Oct 24 04:08	25° Ω 03'47		minimum elong	8174 Sep 26 00:08	10° ≏ 07'27	5°26'22
direct	8173 Oct 26 17:09	24° Ω 45'45	10021122	morning rise	8174 Oct 04 14:43	6° £ 10'53	
morning max el	8173 Nov 05 02:02	29° Ω 12'15	19°21'32	direct	8174 Oct 07 14:31	5° Ω 49'37	20026116
asc. node	8173 Nov 05 21:19 8173 Nov 08 00:44	0°M 2°M25'23		morning max el asc. node	8174 Oct 18 12:28 8174 Oct 25 21:44	10° £ 56'05 20° £ 02'44	20°36'16
morning set	8173 Nov 08 00:44 8173 Nov 22 04:42	26°M43'07		asc. noue	8174 Oct 25 21:44 8174 Oct 31 17:46	20° ≥≥ 02′44 0° ™	
morning set	8173 Nov 23 20:01	20 11 € 43 07		morning set	8174 Nov 06 11:40	11°M23'15	
	51,51101 25 20.01				51, 1101 00 11.H	11023 13	
superior conj	8173 Nov 30 06:37	12° ∡ ¹48'20	1°23'41	superior conj	8174 Nov 13 23:18	26°M51'30	1°36'15
minimum elong	8173 Nov 30 09:28	13° ∡ 02'17		minimum elong	8174 Nov 14 00:57	26° ™ 59'53	1°36'16
max. Earth dist.	8173 Dec 06 18:40	25° ₹ 05'33	1.38161 AU		8174 Nov 15 12:33	0° ∕ 7	1 0 2 1 0 = 1 = -
	8173 Dec 09 12:10	0° ප		max. Earth dist.	8174 Nov 19 02:11	7° ₹ 02'42	1.36107 AU

evening rise	8174 Nov 23 00:11	14° ∡ ¹27'07			8175 Oct 23 17:10	0°M	
desc. node	8174 Nov 29 15:54	26° х 13′33					
	8174 Dec 01 22:08	8°0		superior conj	8175 Oct 29 00:37	11° M L18'47	1°41'17
	8174 Dec 23 00:17	0° ≈		minimum elong	8175 Oct 29 00:56	11°M20'25	1°41'22
evening max el	8174 Dec 28 13:40	5°≈59'21	26°08'03	max. Earth dist.	8175 Nov 01 16:30	18°M56'08	1.34361 AU
retrograde	8175 Jan 10 06:00	13° ≈ 11'25		evening rise	8175 Nov 06 03:46	27°M50'17	
evening set	8175 Jan 16 10:43	10° ≈ 39'58			8175 Nov 07 06:46	0° ∡ ″	
min. Earth dist.	8175 Jan 20 15:57	6°≈12'45	0.66828 AU	desc. node	8175 Nov 16 12:55	16° ∡ ³31'17	
asc. node	8175 Jan 21 21:00	4° ≈ 43'00			8175 Nov 25 04:11	ರ°ರ	
inferior conj	8175 Jan 22 05:46	4° ≈ 15'47	0°07'19	evening max el	8175 Dec 11 02:54	19° る 38'34	26°59'17
minimum elong	8175 Jan 22 05:34	4°≈16'24	0°07'22	retrograde	8175 Dec 24 09:23	26° る 58'22	
transit middle	8175 Jan 22 05:34	4°≈16'24	0°07'22	evening set	8175 Dec 31 01:11	24° る 22'16	
transit begin	8175 Jan 22 03:02	4° ≈ 24'17		min. Earth dist.	8176 Jan 04 00:36	20° ට 29'14	0.65559 AU
transit end	8175 Jan 22 08:07	4° ≈ 08'32		inferior conj	8176 Jan 06 01:59	18° ⋜ 08'06	-0°53'51
	8175 Jan 26 00:58	30°₽₹		minimum elong	8176 Jan 06 03:33	18° る 03'38	0°53'01
morning rise	8175 Jan 28 01:06	28° る 28'10		asc. node	8176 Jan 08 18:04	15° る 14'08	
direct	8175 Jan 31 04:23	27° る 32'12		morning rise	8176 Jan 12 07:06	12° る 32'06	
	8175 Feb 05 14:21	0° ≈		direct	8176 Jan 15 01:04	11° る 51'04	
morning max el	8175 Feb 06 21:07	1° ≈ 10'42	18°43'28	morning max el	8176 Jan 21 11:47	15° る 16'55	18°08'17
desc. node	8175 Feb 25 15:24	27° ≈ 49'56			8176 Feb 01 04:54	0° ≈	
	8175 Feb 27 00:35	0° ∀		morning set	8176 Feb 09 01:11	12° ≈ 41'48	
morning set	8175 Feb 28 08:03	2° ℋ 03'26		desc. node	8176 Feb 12 12:20	18° ≈ 19′27	
max. Earth dist.	8175 Mar 15 16:10	26°) €04'43	1.45403 AU		8176 Feb 19 18:56	0°) €	
	0175 Mar. 16, 16,12	27° ₩ 38'57	195200	:	9176 E-L 22 22.14	(0) (22)50	1017110
superior conj	8175 Mar 16 16:13	27° X 3837 27° X 04'19		superior conj	8176 Feb 23 22:14	6° ¥ 32'50 5° ¥ 59'02	
minimum elong	8175 Mar 16 07:22	27 π 04 19 0° Υ	1 31 24	minimum elong max. Earth dist.	8176 Feb 23 13:39 8176 Feb 26 11:34	3 ★3902 10°¥33'51	1.45437 AU
avanina riaa	8175 Mar 18 04:10	0° γ 22° Υ 03'41		max. Earth dist.		10° π 33'31	1.45437 AU
evening rise	8175 Apr 01 01:44	0° 8		avanina risa	8176 Mar 09 22:59 8176 Mar 11 02:15	0° γ 1° Υ 45'48	
araataat hrillianav	8175 Apr 06 00:18	3° 8 42'36	-0.9m	evening rise		21° Υ 01'45	-0.7m
greatest brilliancy	8175 Apr 08 07:56 8175 Apr 19 19:54	20° 8 38'46	-0.9m	greatest brilliancy	8176 Mar 23 14:50	0° 8	-0./m
asc. node	-	23° 8 16'33	18°42'17	avanina may al	8176 Mar 29 19:48	6° 8 53'13	19°26'47
evening max el	8175 Apr 22 04:16	25 8 16 33 26° 8 54'56	10 42 17	evening max el	8176 Apr 04 12:01	8° 8 02'29	19 2047
retrograde	8175 Apr 28 18:59	25° 8 54'35		asc. node	8176 Apr 05 16:58	10° 8 57'43	
evening set	8175 May 02 01:01	20° 8 16'42	2022142	retrograde evening set	8176 Apr 11 15:59 8176 Apr 15 06:01	9° 8 42'38	
inferior conj	8175 May 07 16:22	20°815'10	3°22'34	Č	•	3° 6 42'38	3°21'24
minimum elong min. Earth dist.	8175 May 07 16:52 8175 May 09 14:16	17° 8 56'00	0.65416 AU	inferior conj minimum elong	8176 Apr 20 16:14 8176 Apr 20 15:30	3° 8 51'58	3°21'16
	8175 May 13 08:01	17 8 50'00	0.03410 AU	min. Earth dist.		2° 8 08'44	0.66826 AU
morning rise	8175 May 19 21:08	13 8 3919		IIIII. Eattii üist.	8176 Apr 21 23:00	2 008 44 30°RΥ	0.00820 AU
direct desc. node	,	11 8 12 20		morning rise	8176 Apr 23 16:13	30 K I 27° Υ 31'46	
morning max el	8175 May 24 15:02 8175 Jun 02 04:08	12 8 23 13	26°57'33	morning rise direct	8176 Apr 26 00:38 8176 May 02 04:04	24° Y '48'24	
morning max er	8175 Jun 11 10:28	19 3 0401 0° Ⅱ	20 37 33		8176 May 10 12:02	24 1 48 24 28° Y 30'50	
	8175 Jun 30 20:45	0°9		desc. node	•	0° 8	
marning got	8175 Jul 07 21:20	0 55 12°554'04		morning max el	8176 May 12 06:05 8176 May 14 14:01	2° 8 14'02	25947121
morning set max. Earth dist.	8175 Jul 12 05:28		1 22055 AII	morning max er	8176 Jun 04 13:46	2 3 1402 0° Ⅱ	25 4/ 51
max. Earm dist.	81/3 Jul 12 U3.28	21° © 26'24	1.33955 AU				
aumorior comi	8175 Jul 16 09:58	0° Ω 03'18	0002151	morning set	8176 Jun 19 17:01	25° Ⅲ 31'34 0° ©	
superior conj minimum elong	8175 Jul 16 10:11	0° Ω 04'26		max. Earth dist.	8176 Jun 22 02:49 8176 Jun 23 11:20	0 93 2°934'09	1.35670 AU
behind sun begin	8175 Jul 16 04:39	29° © 35'32	0 03 38	max. Earth dist.	61/0 Juli 23 11.20	2 393409	1.33070 AU
behind sun end		0° Ω 33'22		superior aoni	8176 Jun 29 03:21	13° © 42'10	0024147
ocimia sun ena	8175 Jul 16 15:42 8175 Jul 16 09:20	0° δ (33°22		superior conj minimum elong	8176 Jun 29 05:21 8176 Jun 29 05:24	13°952'31	0°34'33
asc. node	8175 Jul 16 19:06	0° Ω 51'09		asc. node	8176 Jul 29 03:24 8176 Jul 02 16:04	20° © 53'48	0 34 33
evening rise	8175 Jul 23 18:26	15° Ω 36'21		evening rise	8176 Jul 07 01:28	20 \$33 48 29°\$56'17	
evening rise	8175 Jul 30 23:55	0°m		evening rise	8176 Jul 07 01:28 8176 Jul 07 02:11	29 3 30 17	
evening max el	8175 Aug 12 19:55	18° Mp 25'15	2102250	evening max el	8176 Jul 25 00:05	0 3 <i>t</i> 29° Ω 19'44	20°11'27
desc. node			21 32 39	evening max er	8176 Jul 25 16:55	0° Mp	20 1127
retrograde	8175 Aug 20 14:04 8175 Aug 25 03:26	23° m/41'36 24° m/31'33		retrograde	8176 Aug 04 16:20	رابات 4° الله 35′54	
•	•	24° m) 16'23		desc. node	-		
evening set	8175 Aug 27 17:24		4920120		8176 Aug 06 11:09	4° Mp 27'43	
inferior conj	8175 Sep 05 22:32	20° m 18'03		evening set	8176 Aug 06 14:42	4°Mp26'19	2016111
minimum elong min. Earth dist.	8175 Sep 05 13:11	20° Mp 31'08	4°27'13 0.54712 AU	inferior conj	8176 Aug 15 17:06	0° Mp 28'04 0° Mp 39'14	
	8175 Sep 05 21:29	20° m 19'31	U.34/12 AU	minimum elong	8176 Aug 15 09:33	0°1Ø39°14 30°RΩ	44 UO
morning rise	8175 Sep. 17 24:00	16° Mp 27'19		min Forth diet	8176 Aug 16 12:02		0.54060 411
direct	8175 Sep 17 24:00	15° Mp 59'22	22010142	min. Earth dist.	8176 Aug 17 07:50	29° Ω 30'49	0.54969 AU
morning max el	8175 Sep 30 10:24	21° ™ 52'23 0° ₽	22°10'43	morning rise	8176 Aug 24 03:13	26° Ω 17'05	
aga nodo	8175 Oct 07 09:17			direct	8176 Aug 28 10:53	25° Ω 36'42	
asc. node	8175 Oct 12 18:43	8° £ 26'43		morning mass -1	8176 Sep 08 09:49	0°M) 2°M-14'02	22056106
morning set	8175 Oct 21 21:56	26° £ 11′23		morning max el	8176 Sep 11 00:07	2° Mp 14'02	23-36.06

asc. node	8176 Sep 28 15:40	27° m 25'30		asc. node	8177 Sep 15 12:37	16° m 50'12	
	8176 Sep 30 00:01	0० ত		morning set	8177 Sep 19 21:01	25° Mp 48'41	
morning set	8176 Oct 05 09:36	11° ≏ 01'25			8177 Sep 21 19:43	0∘ ত	
superior conj	8176 Oct 12 07:36	26° ≏ 00'39	1°39'42	superior conj	8177 Sep 26 17:59	10° ჲ 50′10	1°32'13
minimum elong	8176 Oct 12 06:44	25° ≙ 55'57	1°39'44	minimum elong	8177 Sep 26 16:15	10° ≏ 40'39	1°32'05
	8176 Oct 14 03:57	0°M		max. Earth dist.	8177 Sep 27 21:20	13° ≏ 20'47	1.32140 AU
max. Earth dist.	8176 Oct 14 15:24	1° M 01'15	1.33026 AU	evening rise	8177 Oct 03 19:18	26° ≏ 02'17	
evening rise	8176 Oct 19 19:11	11° M 44'54			8177 Oct 05 17:42	0° M	
	8176 Oct 29 13:06	0° ∡ ¹		desc. node	8177 Oct 20 07:03	25°M56'20	
desc. node	8176 Nov 02 09:57	6° ∡ ¹28'25			8177 Oct 23 00:10	0° ∡ ¹	
	8176 Nov 19 16:37	0°ප		evening max el	8177 Nov 05 00:23	15° ∡ ¹47'10	27°23'26
evening max el	8176 Nov 22 15:16	2°る59'05	27°26'27	retrograde	8177 Nov 18 19:49	23° х 01'13	
retrograde	8176 Dec 06 06:13	10°る17'56		evening set	8177 Nov 25 22:22	20° ∡ ³39'15	
evening set	8176 Dec 13 06:07	7° る 44'19		min. Earth dist.	8177 Nov 29 14:34	17° ∡ ¹46'01	0.62072 AU
min. Earth dist.	8176 Dec 17 00:43	4° る 23'46	0.63959 AU	inferior conj	8177 Dec 02 13:29	15° ∡ '02'54	-3°10'26
inferior conj	8176 Dec 19 13:33	1° る 46'20		minimum elong	8177 Dec 02 19:27	14° ∡ °49'07	
minimum elong	8176 Dec 19 17:18	1° る 36'36		morning rise	8177 Dec 09 18:41	9° х 759'51	
minimum crong	8176 Dec 21 07:37	30°R. ✓	1 37 02	direct	8177 Dec 12 01:01	9° × ⁷ 37'20	
asc. node	8176 Dec 25 15:07	26° ⊀ ¹42'02		asc. node	8177 Dec 12 12:08	9°×738'18	
morning rise	8176 Dec 26 06:12	26°×725'03		morning max el	8177 Dec 18 21:33	13°×706'13	17°50'05
direct	8176 Dec 28 17:03	25° × 55'05		morning max cr	8177 Dec 30 08:50	0° ♂	17 30 03
morning max el	8170 Dec 28 17:03 8177 Jan 04 04:57	29°×718'00	17°50'14	morning set	8177 Dec 30 08:50 8178 Jan 03 16:59	7°る43'37	
morning max er	8177 Jan 04 04.37	29 メ ・1800	17 30 14	morning set	01/0 Jan 03 10.39	/ 0433/	
marning act	8177 Jan 04 21:18 8177 Jan 20 22:14	0 る 24° る 41'50		aumanian aani	8178 Jan 14 18:38	27°る10'28	0°10'55
morning set				superior conj			
	8177 Jan 24 01:02	0°≈		minimum elong	8178 Jan 14 19:39	27°る14'49	0°10'54
desc. node	8177 Jan 29 09:16	8° ≈ 57'42		behind sun begin	8178 Jan 14 13:13	26°る47'24	
	0.155 5 1 00 10 50	1.60 1.510.0	0021150	behind sun end	8178 Jan 15 02:05	27°る42'12	
superior conj	8177 Feb 02 19:52	16°≈15′02		desc. node	8178 Jan 16 06:13	29° る 41'12	
minimum elong	8177 Feb 02 16:18	16° ≈ 00'34			8178 Jan 16 10:41	0° ≈	
max. Earth dist.	8177 Feb 08 06:42	25°≈00'01	1.44737 AU	max. Earth dist.	8178 Jan 21 22:40	9° ≈ 05'28	1.43382 AU
	8177 Feb 11 10:47	0° ∀		evening rise	8178 Jan 29 04:44	20° ≈ 37'32	
evening rise	8177 Feb 18 14:14	11° ∺ 04'38			8178 Feb 04 07:22	0° ∀	
	8177 Mar 03 03:22	$0^{\circ}\Upsilon$			8178 Feb 25 17:25	0° Υ	
evening max el	8177 Mar 18 14:31	20° Ƴ 31'34	20°26'18	evening max el	8178 Mar 01 11:28	4° Υ 10'38	21°37'34
asc. node	8177 Mar 23 14:04	24° Y 25'11		asc. node	8178 Mar 10 11:10	9° Ƴ 31'42	
retrograde	8177 Mar 26 14:27	25° Ƴ 11'30		retrograde	8178 Mar 10 12:24	9° Ƴ 31'43	
evening set	8177 Mar 30 13:28	23° Ƴ 41'14		evening set	8178 Mar 14 21:34	7° Ƴ 46'11	
inferior conj	8177 Apr 04 21:12	17° Y 34'49	3°07'49	inferior conj	8178 Mar 20 05:01	1° Y 28'50	
minimum elong	8177 Apr 04 19:34	17° Ƴ 40′25	3°07'31	minimum elong	8178 Mar 20 02:52	1° Y 36'21	
min. Earth dist.	8177 Apr 05 13:49	16° Ƴ 38′02	0.67785 AU	min. Earth dist.	8178 Mar 20 08:41	1° Y 16'06	0.68304 AU
morning rise	8177 Apr 10 01:27	11° Ƴ 18'57			8178 Mar 21 06:41	30° Ŗ ₩	
direct	8177 Apr 15 16:15	8° Ƴ 48'50		morning rise	8178 Mar 25 08:00	25°) 16′23	
morning max el	8177 Apr 26 23:05	15° Ƴ 33'59	24°22'39	direct	8178 Mar 30 08:49	23°) €05'32	
desc. node	8177 Apr 27 09:00	15° Ƴ 59'19		morning max el	8178 Apr 09 09:05	29°) €01'01	22°52'50
	8177 May 08 19:43	0°8			8178 Apr 10 07:58	0 ° Υ	
	8177 May 28 12:17	$\Pi^{\circ}0$		desc. node	8178 Apr 14 05:58	4° Υ' 27'32	
morning set	8177 Jun 01 17:48	7° Ⅱ 13′20			8178 May 02 13:39	0°B	
max. Earth dist.	8177 Jun 05 09:24	13° ∏ 41'45	1.37753 AU	morning set	8178 May 13 18:03	17° 8 44'36	
				max. Earth dist.	8178 May 18 05:55	25° 8 18'52	1.39998 AU
superior conj	8177 Jun 12 09:22	26° ∏ 45′24	-1°06'34		8178 May 20 22:45	0° I I	
minimum elong	8177 Jun 12 13:28	27° I 105'07					
	8177 Jun 14 01:34	0°©		superior conj	8178 May 25 23:50	9° Ⅱ 01'59	-1°36'24
asc. node	8177 Jun 19 13:05	10°5549'25		minimum elong	8178 May 26 05:28	9° ∏ 27'43	
evening rise	8177 Jun 21 02:40	13°956'03		evening rise	8178 Jun 04 18:51	27° I I26'22	1 33 31
evening rise	8177 Jun 29 16:10	0° N		asc. node	8178 Jun 06 10:07	0°932'57	
evening max el	8177 Jul 07 17:17	10° Ω 59'00	19°09'52	use. Hode	8178 Jun 06 03:10	0°95	
retrograde	8177 Jul 16 17:20	15° Ω 26'00	17 07 32	evening max el	8178 Jun 20 20:47	23°5518'13	18°29'07
evening set	8177 Jul 18 17:20 8177 Jul 18 15:01	15° Ω 14'53		retrograde	8178 Jun 28 12:58	23 \$31813 27°\$07'48	10 2901
•		13 δ (14 33 12° Ω 49'31		•			
desc. node	8177 Jul 24 08:15		0.50107	evening set	8178 Jun 30 16:38	26°950'37	0°51'15
inferior conj	8177 Jul 27 01:50	11° Ω 03'11		inferior conj	8178 Jul 08 07:38	22°519'36	
minimum elong	8177 Jul 26 23:39	11° Ω 06'53	0°49'24	minimum elong	8178 Jul 08 09:25	22°5016'04	0°50'27
min. Earth dist.	8177 Jul 29 21:24	9° Ω 09'40	0.56135 AU	desc. node	8178 Jul 11 05:20	20°501'57	0.57070 444
morning rise	8177 Aug 04 05:19	6° Ω 17'19		min. Earth dist.	8178 Jul 11 16:11	19°541'21	0.57979 AU
direct	8177 Aug 09 08:55	5° Ω 16'01	25025125	morning rise	8178 Jul 15 22:44	16°957'15	
morning max el	8177 Aug 23 13:01	12° Ω 29'16	25°3 / 25	direct	8178 Jul 21 21:19	15°526'30	26957154
	8177 Sep 06 03:36	0° m p		morning max el	8178 Aug 05 06:42	23° © 06'04	26~57/54

	8178 Aug 11 10:57	$0^{\circ}\Omega$			8179 Jul 13 05:13	0° ©	
	8178 Aug 30 03:11	0° m		morning max el	8179 Jul 18 07:04	4° 5 21'49	27°45'08
asc. node	8178 Sep 02 09:35	6° ™ 33'07			8179 Aug 06 06:15	0 ° Ω	
morning set	8178 Sep 04 06:31	10° m 27'41		morning set	8179 Aug 19 12:20	24° Ω 53′10	
				asc. node	8179 Aug 20 06:35	26° Ω 28'32	
superior conj	8178 Sep 11 05:45	25° m/40'38	1°19'23		8179 Aug 21 22:25	0° m/y	
minimum elong	8178 Sep 11 03:34	25° m 28'28	1°19'04	max. Earth dist.	8179 Aug 25 16:51	8° Mp 12'21	1.31723 AU
max. Earth dist.	8178 Sep 11 07:02	25° Mp 47'43 0° <u> </u>	1.31704 AU	:	0170 A 26 17:07	100 m 2010	1001127
evening rise	8178 Sep 13 04:33 8178 Sep 18 01:20	10° £ 34'20		superior conj minimum elong	8179 Aug 26 17:07 8179 Aug 26 14:55	10° Mp 26'19 10° Mp 14'11	1°01'36 1°01'10
evening rise	8178 Sep 18 01:20 8178 Sep 27 23:41	0° M		evening rise	8179 Aug 20 14:33 8179 Sep 02 11:06	25° Mg 14'35	1 01 10
desc. node	8178 Oct 07 04:09	14°M42'58		evening rise	8179 Sep 02 11:00 8179 Sep 04 17:13	0° ي	
evening max el	8178 Oct 18 03:35	27°M50'28	26°46'49		8179 Sep 22 02:27	0°M	
<i>y</i>	8178 Oct 20 14:28	0° ∡ 7		desc. node	8179 Sep 24 01:15	2°M31'55	
retrograde	8178 Nov 01 01:26	4° ₹ ′59′12		evening max el	8179 Sep 29 23:02	9°M03'30	25°38'08
evening set	8178 Nov 07 21:51	2° ∡ ′59'51		retrograde	8179 Oct 13 21:19	16°M06'18	
min. Earth dist.	8178 Nov 11 17:38	0° ∡ 123′06	0.60000 AU	evening set	8179 Oct 19 23:38	14°M39'36	
	8178 Nov 12 05:26	30°RM		min. Earth dist.	8179 Oct 24 11:22	12°M02'38	0.57941 AU
inferior conj	8178 Nov 14 22:19	27°M48'38	-4°17'22	inferior conj	8179 Oct 27 12:44	9°M54'12	
minimum elong	8178 Nov 15 05:35	27°M33'58	4°15'17	minimum elong	8179 Oct 27 18:34	9° ™ 43'55	5°09'58
morning rise	8178 Nov 22 15:43	23°M06'57		morning rise	8179 Nov 04 15:50	5°M35'09	
direct	8178 Nov 24 20:52	22°M48'38		direct	8179 Nov 07 00:18	5°M17'56	10040140
asc. node	8178 Nov 29 09:09	24°M08'49	10000102	morning max el	8179 Nov 15 15:08	9°M26'32	18°48'42
morning max el	8178 Dec 02 10:11	26°M32'36 0°⊀	18°09'03	asc. node	8179 Nov 16 06:11 8179 Nov 29 01:28	10°ML03'55 0°⊀	
marning sat	8178 Dec 05 10:45 8178 Dec 18 03:16	0 x ¹ 21° x ¹28'47		morning sat	8179 Nov 29 01.28 8179 Dec 02 00:13	5° ₹ ⁷ 42'50	
morning set	8178 Dec 18 03:10 8178 Dec 22 16:24	21 メ ・2847 0°る		morning set	8179 Dec 02 00.13	3 X 42 30	
	0170 Dec 22 10.24	0 0		superior conj	8179 Dec 10 13:18	22° х 18′50	1°12'38
superior conj	8178 Dec 27 18:03	9° ට 16'35	0°46'19	minimum elong	8179 Dec 10 16:37	22° х 34'32	
minimum elong	8178 Dec 27 21:13	9° ට 30'48	0°46'02		8179 Dec 14 16:30	0°る	
desc. node	8179 Jan 03 03:14	20° る 26'32		max. Earth dist.	8179 Dec 17 15:57	5° る 20'42	1.39405 AU
max. Earth dist.	8179 Jan 04 09:31	22° る 34'44	1.41528 AU	desc. node	8179 Dec 21 00:13	11° る 09'34	
	8179 Jan 08 21:14	0° ≈		evening rise	8179 Dec 21 14:53	12° る 12'00	
evening rise	8179 Jan 09 11:00	0° ≈ 55'48			8180 Jan 01 16:24	0° ≈	
	8179 Jan 28 18:36	0°) €			8180 Jan 24 03:47	0°) €	
evening max el	8179 Feb 12 03:56	17° ¥ 52′26	22°56'04	evening max el	8180 Jan 25 17:50	1°) 37′42	24°16'02
retrograde	8179 Feb 22 08:17	23°) ₹54'36		retrograde	8180 Feb 06 00:40	8°) 14'48	
asc. node	8179 Feb 25 08:15	23°) €09'38		evening set	8180 Feb 11 09:27	6° ∺ 00'37	
evening set	8179 Feb 27 04:45	21°) 54'15	0.00000.444	asc. node	8180 Feb 12 05:21	5°) 15′08	0.60000 177
min. Earth dist.	8179 Mar 04 05:25	15°) 58'04	0.68398 AU	min. Earth dist.	8180 Feb 16 01:41	0°) 38'43	0.68092 AU
inferior conj	8179 Mar 04 13:43	15° ¥ 29'18	2°10'44	inferior conj	8180 Feb 16 21:25 8180 Feb 16 19:33	29°≈32'14	1°29'05
minimum elong morning rise	8179 Mar 04 11:28 8179 Mar 09 18:06	15°) 37'05 9°) 21'32	2°10'05	minimum elong	8180 Feb 16 19:33 8180 Feb 16 13:11	29°≈38'31 30°R≈	1°28'30
direct	8179 Mar 14 04:56	7° \ 32'42		morning rise	8180 Feb 22 05:44	30 k∞ 23°≈30'40	
morning max el	8179 Mar 14 04:30 8179 Mar 22 23:20	12°) (32,42	21°27'05	direct	8180 Feb 26 03:19	22°≈03'55	
desc. node	8179 Apr 01 02:55	23°) 39'27	21 27 03	morning max el	8180 Mar 04 20:37	26°≈25'50	20°11'55
	8179 Apr 05 16:44	0°Υ			8180 Mar 08 02:24	0° ∀	
morning set	8179 Apr 23 14:46	27° Y ′00′07		desc. node	8180 Mar 17 23:51	13°) 22'34	
_	8179 Apr 25 11:58	8° 0			8180 Mar 29 02:49	0° Y	
max. Earth dist.	8179 Apr 30 06:56	7° 8 46'27	1.42134 AU	morning set	8180 Apr 01 14:50	5° Y 22'33	
				max. Earth dist.	8180 Apr 11 15:16	21° Y 06'50	1.43893 AU
superior conj	8179 May 07 18:08	20° 8 22'23			8180 Apr 17 02:54	9° 8	
minimum elong	8179 May 07 23:22	20° 8 45'01	1°59'43				
	8179 May 13 05:28	0°II		superior conj	8180 Apr 17 12:18	0° 8 38'38	
evening rise	8179 May 18 22:12	10° Ⅱ 18'10		minimum elong	8180 Apr 17 13:28	0° 8 43'22	2°11'34
asc. node	8179 May 24 07:11	19° ∏ 59'41		evening rise	8180 Apr 30 08:02	22° 8 20'48	
avanina ma1	8179 May 30 08:55	6ಂಟು 0ಂಣ	10000120	aca mada	8180 May 04 18:15	0° П 9° П 03'17	
evening max el retrograde	8179 Jun 04 06:56 8179 Jun 11 02:30	6° © 36'31	18°08'29	asc. node evening max el	8180 May 10 04:15 8180 May 17 20:03	9°Щ03'17 19°Щ22'06	18°07'08
evening set	8179 Jun 11 02:30 8179 Jun 13 13:45	9°509'43		retrograde	8180 May 17 20:03 8180 May 24 06:04	19°Щ22'06 22°Щ42'43	10 0/00
inferior conj	8179 Jun 20 10:30	4°918'30	2°05'13	evening set	8180 May 27 00:45	22° I I42'43	
minimum elong	8179 Jun 20 13:34	4°911'26	2°04'11	inferior conj	8180 Jun 02 06:58	16° ∏ 53'12	2°52'09
min. Earth dist.	8179 Jun 23 17:59	1°9516'48	0.60180 AU	minimum elong	8180 Jun 02 09:31	16° Ⅱ 46'31	2°51'31
	8179 Jun 25 06:53	30°R∏		min. Earth dist.	8180 Jun 05 04:10	13° Ⅲ 52'33	0.62412 AU
morning rise	8179 Jun 27 10:34	28° Ⅲ 28'35		morning rise	8180 Jun 08 16:30	10° Ⅱ 46'36	
desc. node	8179 Jun 28 02:23	28° Ⅲ 05′11		desc. node	8180 Jun 13 23:25	8° Ⅱ 24'51	
direct	8179 Jul 03 22:56	26° Ⅱ 25'58		direct	8180 Jun 15 10:51	8° I I18'00	

minimum elong	8182 Apr 30 12:37	13° 8 20'22	3°23'42	minimum elong	8183 Apr 14 13:53	27° Y °03'04	3°16'50
min. Earth dist.	8182 May 02 03:56	11° 8 15'56	0.66068 AU	min. Earth dist.	8183 Apr 15 15:37	25° Y 36'50	0.67285 AU
morning rise	8182 May 06 00:52	7° 8 02'15		morning rise	8183 Apr 19 21:18	20° Y 41'43	
direct	8182 May 12 10:11	4° 8 15'49		direct	8183 Apr 25 19:28	18° Ƴ 03'06	
desc. node	8182 May 18 17:25	6° 8 23'47		desc. node	8183 May 05 14:23	23° Y 07'54	
morning max el	8182 May 25 09:11	11° 8 58'05	26°30'18	morning max el	8183 May 07 18:51	25° Y 13′52	25°12'36
	8182 Jun 08 19:08	$\Pi^{\circ}0$			8183 May 12 02:45	0°8	
	8182 Jun 27 06:28	0 \circ \odot			8183 Jun 02 06:58	$\Pi^{\circ}0$	
morning set	8182 Jun 30 08:24	5° © 41'42		morning set	8183 Jun 12 20:43	17° Ⅱ 57'26	
max. Earth dist.	8182 Jul 04 10:15	13° © 33'19	1.34636 AU	max. Earth dist.	8183 Jun 16 12:06	24° ∏ 37′00	1.36521 AU
					8183 Jun 19 08:24	0_{\circ} වෙ	
superior conj	8182 Jul 09 05:30	23° © 15'13					
minimum elong	8182 Jul 09 06:26	23° © 20'05	0°16'42	superior conj	8183 Jun 22 18:26	6° © 39'39	
asc. node	8182 Jul 10 21:32	26°542'45		minimum elong	8183 Jun 22 21:22	6°954'07	0°47'56
	8182 Jul 12 11:16	0° N		asc. node	8183 Jun 27 18:32	16°542'55	
evening rise	8182 Jul 16 19:11	9° Ω 04'14		evening rise	8183 Jul 01 00:02	23° © 16'16	
	8182 Jul 27 21:58	0° m/y	20055155		8183 Jul 04 09:02	0°Ω	10040440
evening max el	8182 Aug 04 20:45	10° Mp 17'50	20°55'57	evening max el	8183 Jul 18 06:33	21° Ω 30'56	19°42'40
desc. node	8182 Aug 14 16:31	15° Mp 55'58		retrograde	8183 Jul 28 05:29	26° Ω 25'31	
retrograde	8182 Aug 16 12:38	16° Mp 04'21		evening set	8183 Jul 30 01:56	26° Ω 16'04	
evening set	8182 Aug 18 17:40	15° m 52'43	2040151	desc. node	8183 Aug 01 13:36	25° Ω 35'53	1056152
inferior conj	8182 Aug 27 23:33	11° My 55'46		inferior conj	8183 Aug 07 22:47	22° Ω 13'27	
minimum elong	8182 Aug 27 14:10	12° m 09'04	3°47'05	minimum elong	8183 Aug 07 17:27	22° Ω 21'46	
min. Earth dist.	8182 Aug 28 15:50	11° m 32'40	0.54702 AU	min. Earth dist.	8183 Aug 10 03:42	20° Ω 51'15	0.55361 AU
morning rise	8182 Sep 05 10:54	7° m 59'04		morning rise	8183 Aug 16 06:46	17° Ω 48'13	
direct	8182 Sep 09 07:52	7° m/26'55	22055107	direct	8183 Aug 20 22:33	17° Ω 00'05	24040140
morning max el	8182 Sep 22 07:21	13° Mp 39'06	22°55'07	morning max el	8183 Sep 03 19:59	23° Ω 54'48	24°40'48
1	8182 Oct 04 17:02	0° Ω		1	8183 Sep 09 09:02	0° Mp	
asc. node	8182 Oct 06 21:07	3° Ω 46'47		asc. node	8183 Sep 23 18:06	22° m 57'31	
morning set	8182 Oct 15 00:03	19° £ 50'04			8183 Sep 27 06:33	0∘ ⊽	
	8182 Oct 19 17:50	0° M ₊		morning set	8183 Sep 29 11:47	4° £ 39'26	
superior conj	8182 Oct 22 00:14	4°M52'16	1°41'22	superior conj	8183 Oct 06 08:56	19° ≏ 38'29	1°37'12
minimum elong	8182 Oct 22 00:14 8182 Oct 22 00:01	4°M51'06	1°41'27	minimum elong	8183 Oct 06 08:30 8183 Oct 06 07:40	19° ⊆ 30'29	
max. Earth dist.	8182 Oct 25 00:01 8182 Oct 25 02:11	11°M23'21	1.33735 AU	max. Earth dist.	8183 Oct 08 04:06	23° £ 33'32	1.32585 AU
evening rise	8182 Oct 29 20:03	21°M01'36	1.55755 AC	max. Earth dist.	8183 Oct 11 04:23	0°M	1.32363 AC
evening rise	8182 Nov 03 13:00	0°×7		evening rise	8183 Oct 13 15:31	5°M06'57	
desc. node	8182 Nov 10 15:20	12° × ⁷ 22'51		evening rise	8183 Oct 27 04:23	0° ⊼ ¹	
dese. Hode	8182 Nov 22 10:23	ිප් 0°ප්		desc. node	8183 Oct 28 12:24	2° × ⁷ 08'54	
evening max el	8182 Dec 03 09:06	12° る 41'43	27°14'06	evening max el	8183 Nov 15 20:17	25° ₹ 50'00	27°29'13
retrograde	8182 Dec 16 19:41	20° ට 02'21	2, 1.00	evening man er	8183 Nov 20 22:38	0°ප	2, 2, 13
evening set	8182 Dec 23 15:34	17° る 25'56		retrograde	8183 Nov 29 13:55	3° ප 08'07	
min. Earth dist.	8182 Dec 27 12:37		0.64917 AU	evening set	8183 Dec 06 15:37	0° る 38'04	
inferior conj	8182 Dec 29 19:05	11° る 17'57		8	8183 Dec 07 12:12	30°R. ✓	
minimum elong	8182 Dec 29 21:33	11° る 11'12		min. Earth dist.	8183 Dec 10 08:39	27° ≯ ³30′03	0.63175 AU
asc. node	8183 Jan 02 20:31	7° る 17'28		inferior conj	8183 Dec 13 02:08	24° ₹ ′48′24	
morning rise	8183 Jan 05 04:57	5° ರ 48'11		minimum elong	8183 Dec 13 06:52	24° ₹ 36'41	2°28'14
direct	8183 Jan 07 19:36	5° る 12'23		morning rise	8183 Dec 20 00:04	19° ∡ ³34'36	
morning max el	8183 Jan 14 05:58	8° ප 35'44	17°58'32	asc. node	8183 Dec 20 17:34	19° ∡ ¹20'57	
-	8183 Jan 28 21:33	0°≈		direct	8183 Dec 22 08:30	19° х 08′22	
morning set	8183 Jan 31 21:35	4° ≈ 58'59		morning max el	8183 Dec 28 23:22	22° ∡ ³33′08	17°47'59
desc. node	8183 Feb 06 14:40	14° ≈ 24'39		-	8184 Jan 03 18:54	5°0	
				morning set	8184 Jan 14 04:46	17° る 28'23	
superior conj	8183 Feb 14 22:48	27° ≈ 52'12	-0°57'43		8184 Jan 21 11:00	0° ≈	
minimum elong	8183 Feb 14 16:07	27° ≈ 25'35	0°56'45	desc. node	8184 Jan 24 11:38	5° ≈ 06'03	
	8183 Feb 16 07:00	0°) €					
max. Earth dist.	8183 Feb 18 20:59	4°) €04'41	1.45221 AU	superior conj	8184 Jan 26 06:49	8° ≈ 05'36	-0°13'07
evening rise	8183 Mar 03 02:11	23°) €04'06		minimum elong	8184 Jan 26 05:27	7° ≈ 59'56	0°12'46
	8183 Mar 07 14:31	0 ° $\mathbf{\gamma}$		behind sun begin	8184 Jan 25 23:42	7° ≈ 36′06	
greatest brilliancy	8183 Mar 17 07:07	14° Y 37'21	-0.6m	behind sun end	8184 Jan 26 11:12	8° ≈ 23'45	
evening max el	8183 Mar 29 00:39	0° 8 00'41	19°50'24	max. Earth dist.	8184 Feb 01 14:35	18° ≈ 22'49	1.44228 AU
	8183 Mar 29 00:23	9° 8			8184 Feb 08 23:51	0° ∀	
asc. node	8183 Mar 31 19:29	2° 8 28'28		evening rise	8184 Feb 10 13:23	2° ∺ 24'54	
retrograde	8183 Apr 05 12:33	4° 8 19'49			8184 Feb 29 03:44	$0^{\circ}\Upsilon$	
evening set	8183 Apr 09 06:12	2° 8 58'23		evening max el	8184 Mar 11 00:48	13° Y 39'56	20°55'23
	8183 Apr 12 06:53	30° ₹ Υ		asc. node	8184 Mar 17 16:34	18° Y 21′08	
inferior conj	8183 Apr 14 15:03	26° Ƴ 59'12	3°17'01	retrograde	8184 Mar 19 11:03	18° Ƴ 37'10	

. ,	0104M 22 14 00	1700000120			0105 F 1 24 17 20	0000	
evening set	8184 Mar 23 14:08	17° Υ 00'39	2050151		8185 Feb 24 17:20	0°Υ 2° 0 650112	
inferior conj	8184 Mar 28 21:32	10° Y 49'19	2°58'51	retrograde	8185 Mar 03 08:13	2° Υ 59'13	
minimum elong	8184 Mar 28 19:38	10° Y 55'55	2°58'28	asc. node	8185 Mar 04 13:40	2° Y 51'33	
min. Earth dist.	8184 Mar 29 08:35	10° Y 11′09	0.68062 AU	evening set	8185 Mar 07 22:03	1° Y ′07'26	
morning rise	8184 Apr 03 00:53	4° Υ 34'31			8185 Mar 09 03:02	30° ₹	
direct	8184 Apr 08 09:51	2° Υ 11'47		inferior conj	8185 Mar 13 05:58	24° ¥ 46'41	2°30'53
morning max el	8184 Apr 19 03:54	8° Ƴ 36'52	23°44'18	minimum elong	8185 Mar 13 03:43	24° ¥ 54'31	2°30'18
desc. node	8184 Apr 21 11:22	11° Y 04′28		min. Earth dist.	8185 Mar 13 04:31	24°) 51′46	0.68401 AU
	8184 May 05 22:35	9° 8		morning rise	8185 Mar 18 09:14	18° ∺ 36′07	
morning set	8184 May 24 11:43	29° 8 11'05		direct	8185 Mar 23 04:11	16°) 34′13	
	8184 May 24 23:10	Π $\circ 0$		morning max el	8185 Apr 01 15:07	22° ₭ 07'20	22°15'21
max. Earth dist.	8184 May 28 08:03	5° Ⅱ 51′20	1.38707 AU	desc. node	8185 Apr 08 08:19	29° ¥ 53′07	
					8185 Apr 08 10:29	0° Y	
superior conj	8184 Jun 04 18:24	19° ∏ 24'32	-1°19'42		8185 Apr 29 05:56	8° 0	
minimum elong	8184 Jun 04 23:16	19° Ⅱ 47'30	1°19'07	morning set	8185 May 05 00:17	9° 8 10'06	
	8184 Jun 10 06:53	0 \circ \mathfrak{S}		max. Earth dist.	8185 May 10 06:03	17° 8 49'31	1.40944 AU
evening rise	8184 Jun 13 21:48	7° © 04'23			8185 May 17 07:04	Π \circ 0	
asc. node	8184 Jun 13 15:34	6° 9 34'00					
	8184 Jun 27 03:51	$0^{\circ}\Omega$		superior conj	8185 May 18 00:58	1° Ⅱ 19'34	-1°47'27
evening max el	8184 Jun 30 04:40	3° Ω 28'41	18°50'01	minimum elong	8185 May 18 06:46	1° Ⅱ 45'29	1°47'01
retrograde	8184 Jul 08 13:42	7° Ω 37'29		evening rise	8185 May 28 09:05	20° Ⅲ 20′12	
evening set	8184 Jul 10 13:35	7° Ω 24'16		asc. node	8185 May 31 12:38	26° Ⅱ 11'33	
desc. node	8184 Jul 18 10:41	3° Ω 14'51			8185 Jun 02 14:45	0°ಅ	
inferior conj	8184 Jul 18 16:06	3° Ω 05'06	-0°04'05	evening max el	8185 Jun 13 11:34	16° © 03'34	18°17'55
minimum elong	8184 Jul 18 15:55	3° Ω 05'25	0°04'10	retrograde	8185 Jun 20 17:20	19° 5 641'28	
transit middle	8184 Jul 18 15:55	3° Ω 05'25	0°04'10	evening set	8185 Jun 23 00:21	19°520'26	
transit begin	8184 Jul 18 12:20	3°Ω11'52		inferior conj	8185 Jun 30 07:11	14°9540'34	1°26'08
transit end	8184 Jul 18 19:31	2° £ 58'56		minimum elong	8185 Jun 30 09:48	14°935'01	1°25'07
min. Earth dist.	8184 Jul 21 19:24	0° Ω 50'12	0.56858 AU	min. Earth dist.	8185 Jul 03 16:41	11°5649'41	0.58898 AU
mm. Earth dist.	8184 Jul 23 01:27	30°R95	0.50050710	desc. node	8185 Jul 05 07:45	10°935'20	0.50070710
morning rise	8184 Jul 26 14:52	28°503'09		morning rise	8185 Jul 07 16:04	9°905'34	
direct	8184 Aug 01 03:13	26° © 49'45		direct	8185 Jul 13 21:31	7°921'10	
direct	8184 Aug 10 05:35	0°Ω		morning max el	8185 Jul 28 06:36	15°907'50	27°22'32
morning max el	8184 Aug 15 10:15	4° Ω 15'44	26915102	morning max ci	8185 Aug 09 07:21	0°Ω	21 22 32
morning max er	8184 Sep 03 00:54	0°M)	20 13 03		-	0° m)	
aca mada	8184 Sep 09 15:04			asc. node	8185 Aug 26 08:53	2°My20'14	
asc. node		12° Mp 30'50			8185 Aug 27 12:03		
morning set	8184 Sep 12 22:34	19° ™ 23'36 0° ₽		morning set	8185 Aug 28 06:44	3° m 57'59	
	8184 Sep 17 19:29	0-32			0105 0 04 07.56	100 m, 10140	1°12'25
	0104 C 10 20.07	49 0 20112	1927124	superior conj	8185 Sep 04 07:56	19° Mp 18'48 19° Mp 06'18	
superior conj	8184 Sep 19 20:07	4° £ 29'13		minimum elong	8185 Sep 04 05:41	~	
minimum elong	8184 Sep 19 18:08	4° £ 18'16		max. Earth dist.	8185 Sep 03 22:21	18° m 25'37	1.31661 AU
max. Earth dist.	8184 Sep 20 11:58	5° £ 56'56	1.31895 AU		8185 Sep 09 04:10	0° ⊽	
evening rise	8184 Sep 26 18:27	19° £ 31'43		evening rise	8185 Sep 11 02:22	4° £ 08'48	
	8184 Oct 01 23:00	0°M			8185 Sep 24 18:00	0°M,	
desc. node	8184 Oct 14 09:30	21°M21'01		desc. node	8185 Oct 01 06:36	9°M45'43	
	8184 Oct 20 15:18	0° ∡ ¹		evening max el	8185 Oct 10 03:36	20°M04'01	26°21'13
evening max el	8184 Oct 28 03:24	8° ₹ 21'08	27°12'13	retrograde	8185 Oct 24 01:37	27°M09'24	
retrograde	8184 Nov 11 00:21	15° ₹ 32'47		evening set	8185 Oct 30 16:05	25°M23'08	
evening set	8184 Nov 18 01:18	13° ₹ 19'28		min. Earth dist.	8185 Nov 03 16:53	22°M48'37	
min. Earth dist.	8184 Nov 21 18:08		0.61196 AU	inferior conj	8185 Nov 06 21:28	20°M23'23	
inferior conj	8184 Nov 24 20:06	7° ∡ *53′23		minimum elong	8185 Nov 07 04:35	20°Mo9'51	4°40'53
minimum elong	8184 Nov 25 02:49	7° ∡ 38'41	3°37'25	morning rise	8185 Nov 14 19:23	15°M51'03	
morning rise	8184 Dec 02 06:36	2° ≯ 58'47		direct	8185 Nov 17 01:30	15°M33'26	
direct	8184 Dec 04 11:54	2° ≯ 38'28		asc. node	8185 Nov 23 11:37	18°M05'38	
asc. node	8184 Dec 06 14:37	2° ≯ 57'35		morning max el	8185 Nov 25 00:22	19°M26'30	18°23'15
morning max el	8184 Dec 11 14:39	6° ≯ 13'03	17°55'43		8185 Dec 02 19:29	0° ∡ 7	
	8184 Dec 26 19:42	0°ಕ		morning set	8185 Dec 10 22:07	14° ₹ '49'46	
morning set	8184 Dec 27 06:50	0° る 50'51			8185 Dec 18 22:07	0°ಕ	
superior conj	8185 Jan 06 16:26	19° る 31'59	0°26'59	superior conj	8185 Dec 20 00:52	2° る 03'26	0°58'38
minimum elong	8185 Jan 06 18:40	19° る 41'42	0°26'48	minimum elong	8185 Dec 20 04:17	2° る 19'08	0°58'19
desc. node	8185 Jan 10 08:37	25° る 50'45		max. Earth dist.	8185 Dec 27 13:36	15° පි 26'52	1.40648 AU
	8185 Jan 12 20:00	0° ≈		desc. node	8185 Dec 28 05:37	16° る 35'25	
max. Earth dist.	8185 Jan 14 04:27	2° ≈ 14′20	1.42643 AU	evening rise	8186 Jan 01 00:30	22° る 56'41	
evening rise	8185 Jan 20 09:23	12° ≈ 14'42			8186 Jan 05 09:08	0° ≈ ≈	
	8185 Feb 01 00:54	0°) €			8186 Jan 26 00:29	0° ∀	
evening max el	8185 Feb 21 19:48	27° ∺ 20′50	22°10'25	evening max el	8186 Feb 04 10:59	11°) €04'03	23°30'18

retrograde	8186 Feb 15 02:36	17°) €21'34		evening max el	8187 Jan 18 00:13	24° ≈ 50'17	24°48'48
asc. node	8186 Feb 19 10:46	17 X 2134		evening max er	8187 Jan 24 10:04	0°) €	24 46 46
evening set	8186 Feb 20 04:21	15°) 14'59		retrograde	8187 Jan 29 17:14	1° ¥ 39'39	
min. Earth dist.	8186 Feb 25 01:11	9°) (33'38	0.68319 AU	renograde	8187 Feb 03 11:01	30°R≈	
inferior conj	8186 Feb 25 14:26	8°) (3333	1°54'03	evening set	8187 Feb 04 07:31	29°≈19'48	
minimum elong	8186 Feb 25 12:17	8°) 55'34	1°53'25	asc. node	8187 Feb 06 07:50	27°≈20'04	
morning rise	8186 Mar 02 20:12	2°) (43'09		min. Earth dist.	8187 Feb 08 20:27	24°≈12'49	0.67840 AU
direct	8186 Mar 07 01:19	1° ₩ 03'51		inferior conj	8187 Feb 09 21:08	22°≈51'14	1°08'58
morning max el	8186 Mar 15 08:08	5°){ 48'47	20°53'35	minimum elong	8187 Feb 09 19:35	22°≈56'22	1°08'29
desc. node	8186 Mar 26 05:16	19°) 19′23		morning rise	8187 Feb 15 07:52	16° ≈ 53'09	
	8186 Apr 02 15:02	$_0$ ° γ		direct	8187 Feb 19 00:07	15° ≈ 35'32	
morning set	8186 Apr 14 10:30	17° Ƴ 57'56		morning max el	8187 Feb 26 08:58	19° ≈ 42'40	19°44'16
Č	8186 Apr 22 00:07	0°8		C	8187 Mar 06 17:17	0° ∀	
max. Earth dist.	8186 Apr 22 10:44	0° 8 43'04	1.42944 AU	greatest brilliancy	8187 Mar 11 03:17	6°) €20'02	-0.6m
	•			desc. node	8187 Mar 13 02:11	9°) 13′14	
superior conj	8186 Apr 29 09:21	12° 8 13'25	-2°06'42	morning set	8187 Mar 24 07:55	26°) 17′02	
minimum elong	8186 Apr 29 13:22	12° 8 30'25	2°06'38	•	8187 Mar 26 17:40	0° Υ	
	8186 May 09 14:44	$\Pi^{\circ}0$		max. Earth dist.	8187 Apr 04 22:14	14° Y 23'40	1.44462 AU
evening rise	8186 May 11 05:36	2° Ⅱ 52'55					
asc. node	8186 May 18 09:41	15° Ⅱ 29'35		superior conj	8187 Apr 09 16:56	22° Y 02'39	-2°11'15
evening max el	8186 May 27 23:21	29° Ⅱ 04'59	18°05'31	minimum elong	8187 Apr 09 15:14	21° Y 55'47	2°11'17
	8186 May 28 23:13	0 \circ \odot			8187 Apr 14 14:02	0° ႘	
retrograde	8186 Jun 03 13:35	2° © 27'56		evening rise	8187 Apr 23 06:41	14° 8 32'54	
evening set	8186 Jun 06 04:02	1° © 56'12			8187 May 02 11:55	Π °0	
	8186 Jun 09 08:43	30° Ŗ Ⅱ		asc. node	8187 May 05 06:45	4° Ⅱ 21'41	
inferior conj	8186 Jun 12 18:03	26° Ⅱ 56'13	2°28'11	evening max el	8187 May 11 12:42	12° Ⅱ 24'59	18°12'09
minimum elong	8186 Jun 12 21:03	26° Ⅱ 48'54	2°27'17	retrograde	8187 May 17 21:55	15° ∏ 47′28	
min. Earth dist.	8186 Jun 15 21:48	23° Ⅲ 52′21	0.61142 AU	evening set	8187 May 20 19:33	15° Ⅱ 03'07	
morning rise	8186 Jun 19 11:44	20° Ⅱ 57'52		inferior conj	8187 May 26 20:49	9° ∏ 44'40	3°04'59
desc. node	8186 Jun 22 04:48	19° Ⅱ 30′26		minimum elong	8187 May 26 22:52	9° Ⅱ 39′00	3°04'32
direct	8186 Jun 26 03:24	18° Ⅱ 43'29		min. Earth dist.	8187 May 29 12:08	6° Ⅱ 50'49	0.63302 AU
morning max el	8186 Jul 10 09:47	26° ∏ 42'52	27°53'48	morning rise	8187 Jun 02 00:46	3° Ⅱ 33'16	
	8186 Jul 13 11:59	0ಂಣ		direct	8187 Jun 08 19:08	0° ∏ 56'48	
	8186 Aug 02 22:13	$0^{\circ}\Omega$		desc. node	8187 Jun 09 01:48	0° ∏ 57'02	
morning set	8186 Aug 12 10:23	18° Ω 16'14		morning max el	8187 Jun 22 17:53	8° ∏ 59'39	27°46'52
asc. node	8186 Aug 14 09:02	22° Ω 19'37			8187 Jul 09 00:43	0ა ௐ	
	8186 Aug 17 22:40	0° m			8187 Jul 26 04:43	0 \circ Ω	
max. Earth dist.	8186 Aug 18 07:17	0° ™ 47'04	1.31878 AU	morning set	8187 Jul 27 07:18	2°Ω12'10	
	01064 10 10 22	40.00.00.00	0050140	asc. node	8187 Aug 01 06:00	12° Ω 24'36	
superior conj	8186 Aug 19 18:33	4° Mp 00'38		max. Earth dist.	8187 Aug 01 10:42	12° Ω 49'28	1.32565 AU
minimum elong	8186 Aug 19 16:30	3° mp 49'22	0°52'12		0107 4 04 02 00	100 000100	0020122
evening rise	8186 Aug 26 13:05	18° m 50'48		superior conj	8187 Aug 04 02:08	18° Ω 29'30	0°28'33
11-	8186 Aug 31 22:59	0° <u>೧</u>		minimum elong	8187 Aug 04 00:49	18° Ω 22'25	0°28'09
desc. node	8186 Sep 18 03:42	27° Ω 03'43 0° M		ovenina riae	8187 Aug 09 09:15	0° Тф 3° Тр 32'10	
evening max el	8186 Sep 20 20:48 8186 Sep 21 19:37	0°M56'03	25°00'56	evening rise	8187 Aug 11 00:44 8187 Aug 25 06:09	0° ⊡	
retrograde	8186 Oct 05 16:21	7°M55'31	23 00 30	evening max el	8187 Sep 03 06:58	0 = 11° £ 14'05	23023152
evening set	8186 Oct 11 07:20	6°M43'52		desc. node	8187 Sep 05 00:38 8187 Sep 05 00:47	11° ⊆ 1403	23 23 32
min. Earth dist.	8186 Oct 16 07:00		0.57138 AU	retrograde	8187 Sep 16 19:01	17° ⊆ 59'19	
inferior conj	8186 Oct 19 03:12	2°M09'02		evening set	8187 Sep 20 23:01	17° ≏ 21'20	
minimum elong	8186 Oct 19 07:11	2°M02'26		min. Earth dist.	8187 Sep 27 16:38	14° £ 12'32	0.55580 AU
g	8186 Oct 22 13:37	30° R Ω	0 20 10	inferior conj	8187 Sep 29 12:59	13° Ω 07'14	
morning rise	8186 Oct 27 09:18	27° £ 59'41		minimum elong	8187 Sep 29 09:57	13° Ω 11'42	
direct	8186 Oct 29 20:56	27° Ω 41'59		morning rise	8187 Oct 07 23:01	9° £ 15'02	
	8186 Nov 05 13:05	0°M		direct	8187 Oct 10 20:54	8° £ 54'27	
morning max el	8186 Nov 08 00:55	2°M03'26	19°12'20	morning max el	8187 Oct 21 13:18	13° Ω 54'46	20°23'47
asc. node	8186 Nov 10 08:37	4°M32'06		asc. node	8187 Oct 28 05:36	22° Ω 01'27	
morning set	8186 Nov 24 22:27	29°M13'06			8187 Nov 02 01:59	0°M	
Č	8186 Nov 25 07:53	0°⊀		morning set	8187 Nov 09 04:44	13° M 51'47	
superior conj	8186 Dec 03 03:02	15° ∡ ¹25'40	1°21'03	superior conj	8187 Nov 16 18:08	29°M24'32	1°34'49
minimum elong	8186 Dec 03 06:02	15° ∡ ′40′12	1°20'52	minimum elong	8187 Nov 16 19:59	29°M33'54	1°34'50
max. Earth dist.	8186 Dec 09 19:20	27° ₹ 56'52	1.38478 AU		8187 Nov 17 01:09	0° ∡	
	8186 Dec 10 22:42	0°ප		max. Earth dist.	8187 Nov 22 02:07	9° ₰ 756'30	1.36395 AU
evening rise	8186 Dec 13 13:39	4° る 37'20		evening rise	8187 Nov 25 22:51	17° √ 11'19	
desc. node	8186 Dec 15 02:37	7° る 16'34		desc. node	8187 Dec 01 23:38	27° ∡ ¹49'46	
	8186 Dec 29 10:49	0° ≈			8187 Dec 03 06:34	0°₹	

	8187 Dec 23 19:39	0° ≈		evening rise	8188 Nov 08 00:23	0° ∡ ¹29'20	
evening max el	8187 Dec 31 13:12	8° ≈ 36'56	25°58'51	desc. node	8188 Nov 17 20:42	18° × 10'23	
retrograde	8188 Jan 13 03:01	15° ≈ 46'55	23 3031	dese. Hode	8188 Nov 25 08:06	0°중	
evening set	8188 Jan 19 05:52	13° ≈ 16'49		evening max el	8188 Dec 13 02:34	22° ප 18'18	26°52'58
min. Earth dist.	8188 Jan 23 12:05	8° ≈ 44'19	0.66986 AU	retrograde	8188 Dec 26 07:12	29° る 37'05	20 32 30
asc. node	8188 Jan 24 04:54	7°≈52'01	0.00000110	evening set	8189 Jan 01 21:30	27° ප 01'25	
inferior conj	8188 Jan 25 00:08	6°≈51'38	0°16'01	min. Earth dist.	8189 Jan 05 21:47	23° る 03'19	0.65775 AU
minimum elong	8188 Jan 24 23:43	6°≈52'57	0°15'59	inferior conj	8189 Jan 07 21:25	20° ප් 45'27	
transit middle	8188 Jan 24 23:43	6°≈52'57	0°15'59	minimum elong	8189 Jan 07 22:41	20° ට 41'48	0°43'26
transit begin	8188 Jan 24 23:22	6° ≈ 54'03		asc. node	8189 Jan 10 01:56	18° ට 18'53	
transit end	8188 Jan 25 00:05	6° ≈ 51'50		morning rise	8189 Jan 14 00:57	15° ට 07'29	
morning rise	8188 Jan 30 18:11	1° ≈ 02'21		direct	8189 Jan 16 20:14	14° ට 24'23	
direct	8188 Feb 02 23:02	0°≈03'48		morning max el	8189 Jan 23 07:17	17° ට 51'17	18°12'24
morning max el	8188 Feb 09 17:16	3°≈45'08	18°50'06	Č	8189 Feb 01 10:01	0° ≈	
desc. node	8188 Feb 27 23:06	29° ≈ 26'39		morning set	8189 Feb 11 05:23	15° ≈ 41'25	
	8188 Feb 28 07:39	0°) €		desc. node	8189 Feb 13 20:03	19° ≈ 54'29	
morning set	8188 Mar 02 16:45	5° ¥ 16′29			8189 Feb 20 03:16	0°) €	
max. Earth dist.	8188 Mar 17 14:42	28°) €35'36	1.45337 AU				
	8188 Mar 18 12:13	$0^{\circ}\Upsilon$		superior conj	8189 Feb 26 08:53	9°) 51'14	-1°22'23
		-		minimum elong	8189 Feb 25 23:50	9°) 15'38	
superior conj	8188 Mar 19 03:48	1° Y '01'14	-1°56'08	max. Earth dist.	8189 Feb 28 10:10	13°) €04'35	1.45483 AU
minimum elong	8188 Mar 18 19:34	0° Y 28'54			8189 Mar 11 06:28	0° Υ	
evening rise	8188 Apr 03 08:33	25° Y 13'21		evening rise	8189 Mar 14 11:53	5° Y ′01'27	
8	8188 Apr 06 07:27	0°8		greatest brilliancy	8189 Mar 26 08:00	23° Y ′20'06	-0.7m
asc. node	8188 Apr 21 03:49	22° 8 38'54		<i>y</i>	8189 Mar 30 20:08	0°8	
evening max el	8188 Apr 24 00:43	25° 8 55'45	18°37'06	evening max el	8189 Apr 07 09:10	9° 8 31'56	19°19'12
retrograde	8188 Apr 30 14:02	29° 8 31'00		asc. node	8189 Apr 08 00:54	10° 8 10'34	
evening set	8188 May 03 19:00	28° 8 32'44		retrograde	8189 Apr 14 10:37	13° 8 31'45	
inferior conj	8188 May 09 11:22	22° 8 57'19	3°21'37	evening set	8189 Apr 17 23:28	12° 8 18'48	
minimum elong	8188 May 09 12:04	22° 8 55'11	3°21'27	inferior conj	8189 Apr 23 10:15	6° 8 27'50	3°22'26
min. Earth dist.	8188 May 11 11:36	20° 8 31'23	0.65173 AU	minimum elong	8189 Apr 23 09:41	6° 8 29'39	3°22'19
morning rise	8188 May 15 04:24	16° 8 40'28		min. Earth dist.	8189 Apr 24 19:10	4° 8 40'50	0.66643 AU
direct	8188 May 21 18:40	13° 8 53'52		morning rise	8189 Apr 28 19:32	0°810'00	
desc. node	8188 May 25 22:47	14° 8 50'14		8 2	8189 Apr 29 00:04	30° R Υ	
morning max el	8188 Jun 04 04:02	21° 8 47'46	27°06'05	direct	8189 May 05 00:37	27° Y 25'36	
5 5	8188 Jun 11 07:42	0°П			8189 May 11 21:06	0°8	
	8188 Jul 01 05:36	0°©		desc. node	8189 May 12 19:46	0° 8 40'47	
morning set	8188 Jul 09 18:40	15° © 37'54		morning max el	8189 May 17 14:05	4° 8 55'47	25°59'11
max. Earth dist.	8188 Jul 14 05:05	24° © 25'14	1.33737 AU		8189 Jun 05 19:06	0°II	
	8188 Jul 16 22:08	$0^{\circ}\Omega$		morning set	8189 Jun 22 16:42	28° Ⅱ 22'29	
				3	8189 Jun 23 13:43	0ಂತ	
superior conj	8188 Jul 18 04:36	2° Ω 39'35	0°00'41	max. Earth dist.	8189 Jun 26 12:43	5°936'28	1.35388 AU
minimum elong	8188 Jul 18 04:35	2°Ω39'25	0°00'32				
behind sun begin	8188 Jul 17 22:58	2° Ω 09'57		superior conj	8189 Jul 01 23:24	16°ණ23'07	-0°29'59
behind sun end	8188 Jul 18 10:11	3°₽08'56		minimum elong	8189 Jul 02 01:09	16°ණ32'00	0°29'47
asc. node	8188 Jul 18 03:01	2° Ω 31'11		asc. node	8189 Jul 05 00:01	22°534'54	
evening rise	8188 Jul 25 11:27	18° Ω 07'32			8189 Jul 08 14:01	0° N	
8	8188 Jul 31 08:19	0° m)		evening rise	8189 Jul 09 19:08	2° Ω 30′12	
evening max el	8188 Aug 14 22:03	21° m/32'13	21°46'37	8	8189 Jul 25 20:16	0° m/y	
desc. node	8188 Aug 21 21:52	26° m/32'12		evening max el	8189 Jul 28 00:12	2° m) 20'27	20°22'23
retrograde	8188 Aug 27 10:18	27° m/44'43		retrograde	8189 Aug 07 22:37	7° m) 44'34	
evening set	8188 Aug 30 04:21	27° m) 27'41		desc. node	8189 Aug 08 18:58	7° m) 42'44	
inferior conj	8188 Sep 08 08:28	23° m) 28'17	-4°41'41	evening set	8189 Aug 09 22:16	7° m) 34'39	
minimum elong	8188 Sep 07 23:29	23° m/40'51	4°39'40	inferior conj	8189 Aug 19 02:01	3° m/ 37'09	-3°04'03
min. Earth dist.	8188 Sep 08 01:18	23° mg 38'18	0.54758 AU	minimum elong	8189 Aug 18 17:49	3° Mp 49'06	3°01'19
morning rise	8188 Sep 16 19:48	19° m 38'53	0.5 1750 110	min. Earth dist.	8189 Aug 20 11:08	2° Mp 48'52	0.54872 AU
direct	8188 Sep 20 07:43	19° mg 12'05		mm. Earth tist.	8189 Aug 26 01:49	30°RΩ	0.5 10 / 2 110
morning max el	8188 Oct 02 12:54	24° m 58'01	21°55'38	morning rise	8189 Aug 27 12:37	29° Ω 30'35	
oriiiig iiiuA Çi	8188 Oct 02 12:34 8188 Oct 07 03:17	0° ⊽	21 33 30	direct	8189 Aug 31 17:28	29° Ω 52'36	
asc. node	8188 Oct 14 02:35	0 — 10° ≏ 19'34			8189 Sep 06 05:15	0° m)	
morning set	8188 Oct 23 14:41	28° £ 39'36		morning max el	8189 Sep 14 03:25	5° Mg 23'20	23°40'16
morning set	8188 Oct 24 05:59	28 = 3930		asc. node	8189 Sep 30 23:34	29° m 13'50	25 70 10
	0100 OCL 24 UJ.J9	O IIIG		asc. nouc	8189 Oct 01 09:27	0₀ ʊ	
superior conj	8188 Oct 30 18:24	13° M .49'10	1°40'56	morning set	8189 Oct 01 09.27 8189 Oct 08 02:17	0 <u>₽</u> 13° ₽ 29'51	
minimum elong	8188 Oct 30 18:54	13°M51'51	1°41'03	morning set	0107 001 00 02.17	15 == 47 31	
max. Earth dist.	8188 Nov 03 15:24	21°M50'17	1.34600 AU	superior conj	8189 Oct 15 00:43	28° ≏ 29'25	1°40'19
max. Earth tilst.	8188 Nov 03 15:24 8188 Nov 07 18:18	21°االد50°17 0° √ا	1.54000 AU	minimum elong	8189 Oct 15 00:43 8189 Oct 15 00:01	28° £ 29′23	1°40'19 1°40'22
	0100 INUV U/ 18.18	υ χ .		minimum erong	0107 001 13 00.01	20 == 233/	1 70 22

ž	•		Č	`			•
	8189 Oct 15 17:31	0° M .		max. Earth dist.	8190 Sep 30 18:09	16° Ω 10'48	1.32242 AU
max. Earth dist.	8189 Oct 17 13:11	3°ML53'41	1.33200 AU	evening rise	8190 Oct 06 13:16	28° £ 34'10	
evening rise	8189 Oct 22 14:18	14°ML19'50			8190 Oct 07 05:57	0°M	
* · · · · · · · · · · · · · · · · · · ·	8189 Oct 30 21:51	0° ∡ ¹		desc. node	8190 Oct 22 14:52	27°M44'17	
desc. node	8189 Nov 04 17:47	8° ∡ 11'17			8190 Oct 24 02:19	0° ₹ ¹	
	8189 Nov 20 06:20	0°る		evening max el	8190 Nov 08 00:50	18° ∡ ³35'46	27°25'56
evening max el	8189 Nov 25 15:10	5°₹42'20	27°24'06	retrograde	8190 Nov 21 19:51	25° ₹ '51'04	_,,
retrograde	8189 Dec 09 04:58	13° る 01'32		evening set	8190 Nov 28 22:28	23° ∡ ¹26'33	
evening set	8189 Dec 16 04:03	10° る 26'55		min. Earth dist.	8190 Dec 02 14:40	20° х 29′53	0.62364 AU
min. Earth dist.	8189 Dec 19 23:16	7°る01'52	0.64220 AU	inferior conj	8190 Dec 05 12:20	17° ∡ ¹46'38	-2°59'56
inferior conj	8189 Dec 22 10:28	4° ට 26'17		minimum elong	8190 Dec 05 18:01	17° ∡ °33'18	
minimum elong	8189 Dec 22 13:52	4° ට 17'18	1°48'44	morning rise	8190 Dec 12 15:41	12° ∡ ¹40'50	
	8189 Dec 27 07:22	30°R. ✓		direct	8190 Dec 14 22:28	12° √ 17'29	
asc. node	8189 Dec 27 22:58	29° х 35'33		asc. node	8190 Dec 14 20:02	12° √ 17'32	
morning rise	8189 Dec 29 01:19	29° ₹ 02'42		morning max el	8190 Dec 21 17:16	15° ∡ ¹44'58	17°48'59
direct	8189 Dec 31 13:06	28° ∡ ³31'17		. <i>&</i>	8190 Dec 31 16:30	0°8	
	8190 Jan 04 18:10	0°ਰ		morning set	8191 Jan 06 14:39	10° る 24'53	
morning max el	8190 Jan 07 00:19	1°る53'52	17°51'50				
morning set	8190 Jan 23 22:41	27° る 30'47	1, 0100	superior conj	8191 Jan 17 22:20	0° ≈ 09'13	0°04'49
morning sec	8190 Jan 25 09:57	0°≈		minimum elong	8191 Jan 17 22:49	0°≈11'14	0°04'53
desc. node	8190 Jan 31 17:03	10°≈32'06		behind sun begin	8191 Jan 17 14:18	29° ට 35'15	0 0123
dese. Hode	0170 Jun 31 17.03	10 70/32 00		behind sun end	8191 Jan 18 07:20	0°≈47'08	
superior conj	8190 Feb 06 03:23	19° ≈ 24'24	-0°38'30	bennia sun ena	8191 Jan 17 20:10	0°≈	
minimum elong	8190 Feb 05 23:00	19°≈06'40		desc. node	8191 Jan 18 14:02	0 ∞ 1°≈15'20	
max. Earth dist.	8190 Feb 11 05:45	27°≈33'16		max. Earth dist.	8191 Jan 24 22:10	11°≈42'31	1.43615 AU
max. Lattii dist.	8190 Feb 12 18:56	0° \	1.44003 AC	evening rise	8191 Feb 01 14:07	23°≈50'45	1.43013 AC
evening rise	8190 Feb 22 00:55	14° H 21'59		evening rise	8191 Feb 05 14:09	23 ≈ 30 43	
evening rise	8190 Feb 22 00.33 8190 Mar 04 08:25	14 π 21 39 0° Υ			8191 Feb 05 14.09 8191 Feb 26 13:12	0 X 0°Υ	
avanina may al	8190 Mar 04 08.23 8190 Mar 21 12:28	23° Υ 10'10	20°16'35	avanina may al		0 1 6° Υ 49'15	21926120
evening max el		26° Υ 43'39	20 10 33	evening max el	8191 Mar 04 10:10	12° Υ 02'59	21 20 20
asc. node	8190 Mar 25 21:58	26° γ 43′39 27° Υ 44′30		asc. node	8191 Mar 12 19:04	12° \ \ \ 02'39 \ 12° \ \ \ \ \ \ \ 04'18	
retrograde	8190 Mar 29 09:04	26° Y $16'27$		retrograde	8191 Mar 13 07:17	12° \ \ \ \ 04^{\chi} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
evening set	8190 Apr 02 06:41		2010124	evening set	8191 Mar 17 14:48		2040107
inferior conj	8190 Apr 07 14:37	20°Υ11'45		inferior conj	8191 Mar 22 22:10	4°Υ05'08	
minimum elong	8190 Apr 07 13:06	20°Υ16'56	3°10'19	minimum elong	8191 Mar 22 20:04	4°Υ12'26 3°Υ45'52	
min. Earth dist.	8190 Apr 08 09:13	19° Υ 08'26	0.67669 AU	min. Earth dist.	8191 Mar 23 03:42		0.68253 AU
morning rise	8190 Apr 12 19:18	13°Υ55'27			8191 Mar 26 00:12	30° ₹ ₩	
direct	8190 Apr 18 12:01	11° Υ 23'01		morning rise	8191 Mar 28 01:09	27°) 51'57	
desc. node	8190 Apr 29 16:45	17°Υ58'34	2.402.515.1	direct	8191 Apr 02 04:03	25°) €37'57	
morning max el	8190 Apr 29 23:20	18° Y 15′06	24°35'51		8191 Apr 10 14:40	0°Υ 1°Ω4112.5	22006106
	8190 May 09 20:14	0° B		morning max el	8191 Apr 12 09:02	1°Υ41'25	23°06'06
	8190 May 29 20:42	0°II		desc. node	8191 Apr 16 13:43	6° Y 19'12	
morning set	8190 Jun 04 20:39	10° Ⅱ 13'31	1.07/06 177		8191 May 03 19:32	0°8	
max. Earth dist.	8190 Jun 08 11:40	16°Щ42'31	1.37426 AU	morning set	8191 May 17 00:52	20° 8 56'11	
	0100 1 15 05 00	200 T 22102	1001110	max. Earth dist.	8191 May 21 07:45		1.39664 AU
superior conj	8190 Jun 15 07:20	29° Ⅲ 32'02			8191 May 22 08:31	Π $^{\circ}0$	
minimum elong	8190 Jun 15 11:07	29° ∏ 50′28	1°01'18				
	8190 Jun 15 13:05	0.20 0.20		superior conj	8191 May 29 00:22	11° I I56'06	
asc. node	8190 Jun 21 21:04	12°531'58		minimum elong	8191 May 29 05:51	12° Ⅱ 21'21	1~31'37
evening rise	8190 Jun 23 21:24	16°933'27		evening rise	8191 Jun 07 15:08	0°908'32	
	8190 Jun 30 21:52	0° Ω	10017142	1	8191 Jun 07 13:21	0°©	
evening max el	8190 Jul 10 15:30	13° £ 52'42	19°17'42	asc. node	8191 Jun 08 18:05	2° © 17'32	
retrograde	8190 Jul 19 21:21	18° Ω 26'44		evening max el	8191 Jun 23 17:42	26°9506'23	18°33'54
evening set	8190 Jul 21 18:24	18° Ω 16'13		_	8191 Jul 01 04:55	0 ° Ω	
desc. node	8190 Jul 26 16:01	16° Ω 23'15		retrograde	8191 Jul 01 13:58	0° Ω 00'32	
inferior conj	8190 Jul 30 08:00	14°Ω07'00		_	8191 Jul 01 23:03	30° ₹ 55	
minimum elong	8190 Jul 30 05:01	14° Ω 11'56		evening set	8191 Jul 03 16:31	29° © 44'33	
min. Earth dist.	8190 Aug 02 00:12	12° Ω 21'23	0.55909 AU	inferior conj	8191 Jul 11 10:30	25°5016'45	
morning rise	8190 Aug 07 12:49	9° Ω 26'36		minimum elong	8191 Jul 11 11:51	25°514'07	0°36'53
direct	8190 Aug 12 13:16	8° Ω 29'05		desc. node	8191 Jul 13 13:05	23°538'37	
morning max el	8190 Aug 26 16:05	15° Ω 37'49	25°23'18	min. Earth dist.	8191 Jul 14 18:13	22° © 43'48	0.57671 AU
	8190 Sep 07 05:33	0° т р		morning rise	8191 Jul 19 03:40	19° © 59'21	
asc. node	8190 Sep 17 20:34	18° m 35'15		direct	8191 Jul 24 23:43	18° © 33'10	
morning set	8190 Sep 22 13:51	28° m 17'51		morning max el	8191 Aug 08 08:50	26°509'54	26°47'51
	8190 Sep 23 08:56	0ಂ ರಾ			8191 Aug 11 23:48	0 $^{\circ}\Omega$	
					8191 Aug 31 13:20	0° ™	
superior conj	8190 Sep 29 10:44	13° ≏ 18'15		asc. node	8191 Sep 04 17:34	8°Mp16'04	
minimum elong	8190 Sep 29 09:07	13° ഫ 09'21	1°33'36	morning set	8191 Sep 06 23:44	12° m 58'33	

aumariar aani	9101 Cap. 12 22:25	200 m 00!16	1°21'40		9102 Avg 22 11:25	0° m)	
superior conj minimum elong	8191 Sep 13 22:25 8191 Sep 13 20:16	28° Mp 09'16 27° Mp 57'21	1°21'40 1°21'23	max. Earth dist.	8192 Aug 22 11:25 8192 Aug 27 13:24	עוויי 11° my 02'27	1.31686 AU
max. Earth dist.	8191 Sep 13 20:16 8191 Sep 14 03:26	28° m ₂ 3721 28° m ₂ 37'07	1.31733 AU	max. Earth dist.	6192 Aug 27 13.24	11 11/02/27	1.31000 AU
max. Latin dist.	8191 Sep 14 03:20 8191 Sep 14 18:23	ე∘ <u>ი</u>	1.51755 AO	superior conj	8192 Aug 28 09:55	12° m 55'55	1°04'37
evening rise	8191 Sep 20 18:34	ა _ 13° ჲ 04'45		minimum elong	8192 Aug 28 07:41	12° mp 43'36	1°04'11
evening rise	8191 Sep 29 08:02	0°M		evening rise	8192 Sep 04 03:52	27° m) 44'08	
desc. node	8191 Oct 09 11:57	16°MJ38'24		0 ,	8192 Sep 05 05:27	0∘ ⊽	
	8191 Oct 20 09:36	0° ∡ ¹			8192 Sep 21 23:31	0°M	
evening max el	8191 Oct 21 05:07	0° ∡ ¹47'05	26°54'32	desc. node	8192 Sep 25 09:02	4° ™ 37'22	
retrograde	8191 Nov 04 02:57	7° ∡ ¹56'51		evening max el	8192 Oct 02 01:52	12°M07'59	25°50'18
evening set	8191 Nov 11 00:50	5° ∡ ¹53'29		retrograde	8192 Oct 16 00:16	19° M .11'28	
min. Earth dist.	8191 Nov 14 19:29	3° ∡ 15′06	0.60310 AU	evening set	8192 Oct 22 06:08	17° ™ 39'38	
inferior conj	8191 Nov 17 23:43	0° ∡ ³38'15	-4°07'51	min. Earth dist.	8192 Oct 26 14:31	15°M₀3'52	0.58236 AU
minimum elong	8191 Nov 18 06:55	0° ∡ ¹23'24	4°05'39	inferior conj	8192 Oct 29 17:04	12°M50'34	-5°04'22
	8191 Nov 18 18:21	30°RML		minimum elong	8192 Oct 29 23:23	12°M39'14	5°03'10
morning rise	8191 Nov 25 15:24	25°M53'09		morning rise	8192 Nov 06 18:57	8°M28'00	
direct	8191 Nov 27 20:22	25°M34'29		direct	8192 Nov 09 02:36	8° ጤ 10'47	
asc. node	8191 Dec 01 17:04	26°M34'34		morning max el	8192 Nov 17 13:02	12°M15'10	18°41'20
morning max el	8191 Dec 05 06:45	29°M15'50	18°04'55	asc. node	8192 Nov 17 14:06	12° ™ 17'45	
	8191 Dec 06 00:06	0° ∡ ¹			8192 Nov 29 10:58	0° ∡ ¹	
morning set	8191 Dec 20 22:58	24° ∡ °04'54		morning set	8192 Dec 03 18:34	8° ∡ 15'34	
	8191 Dec 24 03:09	0°ಕ					
				superior conj	8192 Dec 12 10:56	25° ₹ 00'30	1°09'13
superior conj	8191 Dec 30 18:20	12° る 05'49		minimum elong	8192 Dec 12 14:19	25° ∡ 16′24	1°08'57
minimum elong	8191 Dec 30 21:20	12° ろ 19'08	0°41'13		8192 Dec 15 03:24	0° る	
desc. node	8192 Jan 05 11:01	22° ろ 00'51		max. Earth dist.	8192 Dec 19 16:42		1.39735 AU
max. Earth dist.	8192 Jan 07 09:38	25° る 17'30	1.41828 AU	desc. node	8192 Dec 22 08:01	12° ठ 44'30	
	8192 Jan 10 05:55	0° ≈		evening rise	8192 Dec 23 18:04	15° る 09'00	
evening rise	8192 Jan 12 17:30	4°≈01'27			8193 Jan 01 23:04	0° ≈	
	8192 Jan 29 21:53	0° ∺	22044107		8193 Jan 23 18:23	0°) (15152	24004116
evening max el	8192 Feb 15 03:15	20° ¥ 30′55	22°44'07	evening max el	8193 Jan 27 17:29	4°) 15′52	24°04'16
retrograde	8192 Feb 25 03:33	26° ¥ 27′10		retrograde	8193 Feb 07 20:26	10°) 47'55 8°) 35'44	
asc. node	8192 Feb 27 16:08 8192 Feb 29 22:13	25° ∺ 55'07 24° ∺ 29'06		evening set	8193 Feb 13 03:22	8° X 33'44' 8° X 14'00	
evening set	8192 Feb 29 22:13 8192 Mar 06 06:52	24° ★ 29'06 18° ★ 05'06	2°16'19	min. Earth dist.	8193 Feb 13 13:13 8193 Feb 17 20:47	3° ★ 14'00	0.68168 AU
inferior conj minimum elong	8192 Mar 06 04:36	18° X 12'57	2°15'41	inferior conj	8193 Feb 17 20.47 8193 Feb 18 14:49	2° € 07'42	1°35'56
min. Earth dist.	8192 Mar 06 00:20	18° H 27'45	0.68415 AU	minimum elong	8193 Feb 18 14.49 8193 Feb 18 12:51	2° X 14'19	1°35'19
morning rise	8192 Mar 11 10:52	11° X 56'26	0.06413 AU	minimum clong	8193 Feb 20 05:15	2)(1419 30°R≈	1 33 19
direct	8192 Mar 15 23:47	10° X 04'07		morning rise	8193 Feb 23 22:23	26°≈05'09	
morning max el	8192 Mar 24 22:21	15° X 16'23	21°39'12	direct	8193 Feb 27 21:56	24°≈35'06	
desc. node	8192 Apr 02 10:40	25° H 25'28	21 37 12	morning max el	8193 Mar 07 18:25	29°≈02'28	20°22'13
	8192 Apr 05 19:23	0°Υ			8193 Mar 08 16:50	0°) €	
	8192 Apr 25 19:54	0°8		desc. node	8193 Mar 20 07:36	15°) €04'25	
morning set	8192 Apr 26 01:32	0° 8 22'24			8193 Mar 30 09:20	$0^{\circ}\Upsilon$	
max. Earth dist.	8192 May 02 07:37	10° 8 31'24	1.41839 AU	morning set	8193 Apr 05 03:38	8° Ƴ 49'41	
	•			max. Earth dist.	8193 Apr 14 15:05	23° Y 45'35	1.43666 AU
superior conj	8192 May 09 21:57	23° 8 25'37	-1°57'01		8193 Apr 18 11:29	0°8	
minimum elong	8192 May 10 03:27	23° 8 49'33	1°56'44				
	8192 May 13 15:22	$\Pi^{\circ}0$		superior conj	8193 Apr 20 19:54	3° 8 52'03	-2°10'48
evening rise	8192 May 20 20:38	13° Ⅱ 06'33		minimum elong	8193 Apr 20 21:56	4° 8 00'29	2°10'50
asc. node	8192 May 25 15:06	21° Ⅱ 47′00		evening rise	8193 May 03 09:24	25° 8 17'36	
	8192 May 30 10:31	0ංම			8193 May 06 02:09	Π $^{\circ}0$	
evening max el	8192 Jun 06 03:06	8° 9 53'15	18°10'19	asc. node	8193 May 12 12:09	10° Ⅱ 54'47	
retrograde	8192 Jun 13 00:53	12°522'44		evening max el	8193 May 20 16:01	22° Ⅱ 04'01	18°06'07
evening set	8192 Jun 15 11:04	11° 9 57'30		retrograde	8193 May 27 02:44	25° Ⅱ 24'41	
inferior conj	8192 Jun 22 10:20	7° 5 09'18	1°55'49	evening set	8193 May 29 20:22	24° ∏ 47'38	
minimum elong	8192 Jun 22 13:21	7° © 02'30	1°54'46	inferior conj	8193 Jun 05 04:28	19° Ⅲ 39'40	2°46'35
min. Earth dist.	8192 Jun 25 18:44	4°509'33	0.59846 AU	minimum elong	8193 Jun 05 07:09	19° Ⅲ 32'43	2°45'52
desc. node	8192 Jun 29 10:08	1°526'50		min. Earth dist.	8193 Jun 08 03:31	16° Ⅱ 37'35	0.62090 AU
morning rise	8192 Jun 29 12:41	1°522'57		morning rise	8193 Jun 11 16:03	13° Ⅲ 35′01	
T'	8192 Jul 02 11:03	30°RII		desc. node	8193 Jun 16 07:09	11° Ⅱ 23'49	
direct	8192 Jul 05 23:36	29° Ⅱ 24'48		direct	8193 Jun 18 10:00	11° Π 09'50	27055122
morning me1	8192 Jul 09 14:46	0°छ १°७	27040122	morning max el	8193 Jul 02 13:20	19° Ⅱ 11'18	21-35.23
morning max el	8192 Jul 20 08:01 8192 Aug 06 11:30	0°Ω	27°40'33		8193 Jul 11 17:07 8193 Jul 30 09:01	$0 {\circ} {f V}$	
morning set	8192 Aug 06 11:30 8192 Aug 21 06:11	27° Ω 26'08		morning set	8193 Jul 30 09:01 8193 Aug 05 07:14	11° Ω 35'30	
asc. node	8192 Aug 21 06:11 8192 Aug 21 14:32	28° Ω 09'50		asc. node	8193 Aug 05 07:14 8193 Aug 08 11:29	11° 8€ 35°30	
abe. Hode	51,2 mg 21 17.32	20 0 60 7 30		use. Houe	5175 Aug 00 11.29	10 061201	

8194 Jul 20 00:26

8194 Jul 22 08:33

morning set

25°9519'00

 $0^{\circ}\Omega$

8195 May 21 01:10

8195 May 28 09:17

desc. node

morning max el

8°842'13

14°841'37 26°40'15

	8195 Jun 09 20:56	0° I I		desc. node	8196 May 06 22:09	25° Ƴ 13'00	
	8195 Jun 28 16:19	0°9		morning max el	8196 May 09 19:03	23 Υ 13 00 27° Υ 55'31	25°25'00
morning set	8195 Jul 03 06:38	8° 9 28'25		morning max ci	8196 May 11 18:12	0° と	23 23 00
max. Earth dist.	8195 Jul 07 10:39	16°933'59	1.34388 AU		8196 Jun 02 13:57	0°II	
max. Lattii dist.	01/3 Jul 0/ 10.3/	10 33337	1.54500 AC	morning set	8196 Jun 14 21:40	20° I I52'10	
superior conj	8195 Jul 12 00:39	25° © 53'04	-0°12'05	max. Earth dist.	8196 Jun 18 13:45	27° I I38'10	1.36214 AU
minimum elong	8195 Jul 12 01:19	25°956'34		max. Lartii dist.	8196 Jun 19 19:44	0°95	1.50214710
behind sun begin	8195 Jul 11 21:28	25°936'38	0 12 00		01)0 Juli 1) 1).11	ů C	
behind sun end	8195 Jul 12 05:10	26°916'31		superior conj	8196 Jun 24 15:15	9° 5 22'52	-0°43'29
asc. node	8195 Jul 13 05:28	28°923'04		minimum elong	8196 Jun 24 17:52	9° © 35'52	
use. Houe	8195 Jul 13 23:59	0°Ω		asc. node	8196 Jun 29 02:30	18° © 24'21	0 13 00
evening rise	8195 Jul 19 12:25	11° Ω 36'19		evening rise	8196 Jul 02 18:06	25°951'18	
e vennig 1150	8195 Jul 29 01:15	0° m		evening rise	8196 Jul 04 19:27	0° Ω	
evening max el	8195 Aug 07 21:58	13° m) 21'55	21°08'33	evening max el	8196 Jul 20 05:53	24°Ω28'53	19°52'23
desc. node	8195 Aug 17 00:17	18° Mp 56'26		retrograde	8196 Jul 30 10:52	29°Ω30'53	-,
retrograde	8195 Aug 19 19:36	19° m) 15'45		evening set	8196 Aug 01 07:41	29° Ω 21'32	
evening set	8195 Aug 22 03:20	19° m 03'07		desc. node	8196 Aug 02 21:21	29° Ω 00'00	
inferior conj	8195 Aug 31 09:17	15° mp 05'55	-4°04'48	inferior conj	8196 Aug 10 06:43	25° Ω 20'48	-2°14'46
minimum elong	8195 Aug 30 23:45	15° m 19'22	4°02'09	minimum elong	8196 Aug 10 00:33	25° Ω 30'13	2°12'34
min. Earth dist.	8195 Aug 31 19:33	14° m 51'26	0.54684 AU	min. Earth dist.	8196 Aug 12 06:58	24° Ω 07'13	0.55203 AU
morning rise	8195 Sep 08 20:41	11° m) 11'41	0.0 100 1110	morning rise	8196 Aug 18 15:32	21°Ω00'46	0.55205110
direct	8195 Sep 12 15:07	10° m 41'10		direct	8196 Aug 23 04:30	20°Ω15'28	
morning max el	8195 Sep 25 10:22	16° Mp 46'50	22°39'29	morning max el	8196 Sep 05 23:17	27° Ω 04'26	24°25'18
	8195 Oct 05 20:48	0∘ ⊽			8196 Sep 08 19:48	0° mp	
asc. node	8195 Oct 09 05:04	5° £ 37'31		asc. node	8196 Sep 25 02:03	24° m 44'26	
morning set	8195 Oct 17 16:43	22° £ 18'11			8196 Sep 27 18:09	0ಂ ರ	
morning sec	8195 Oct 21 07:14	0°M		morning set	8196 Oct 01 04:29	ია_ 7° ჲ 08'02	
	0130 000 21 07.11	0 110		morning sec	01,0 000 01 01.2	, _0002	
superior conj	8195 Oct 24 17:41	7°M21'58	1°41'28	superior conj	8196 Oct 08 01:52	22° ₽ 07'00	1°38'14
minimum elong	8195 Oct 24 17:39	7° M 21'47	1°41'33	minimum elong	8196 Oct 08 00:44	22° ♀ 00'49	1°38'13
max. Earth dist.	8195 Oct 28 00:25	14°ML16'03	1.33940 AU	max. Earth dist.	8196 Oct 10 01:21	26° £ 24'41	1.32730 AU
evening rise	8195 Nov 01 15:56	23°M38'38	1.557 10 110	man. Darin dige.	8196 Oct 11 17:34	0°M	1.52750110
	8195 Nov 04 23:38	0° ∡ 7		evening rise	8196 Oct 15 10:06	7° M 40'41	
desc. node	8195 Nov 12 23:09	14° ₹ '03'25			8196 Oct 27 11:07	0° ⊼ ¹	
dese. node	8195 Nov 23 10:33	0°ಕ		desc. node	8196 Oct 29 20:13	3° х 53′35	
evening max el	8195 Dec 06 08:45	15° る 22'48	27°09'29	evening max el	8196 Nov 17 20:26	28° ≯ 35'38	27°28'54
retrograde	8195 Dec 19 18:06	22° る 43'34	_, ,, _,		8196 Nov 19 09:28	0°ප	_, _, ,
evening set	8195 Dec 26 12:36	20°る07'05		retrograde	8196 Dec 01 13:17	5° る 54'06	
min. Earth dist.	8195 Dec 30 10:25		0.65145 AU	evening set	8196 Dec 08 14:25	3° ප 22'41	
inferior conj	8196 Jan 01 15:09	13° る 56'44		min. Earth dist.	8196 Dec 12 07:58		0.63454 AU
minimum elong	8196 Jan 01 17:17	13° る 50'48			8196 Dec 12 12:11	30°R ✓	
asc. node	8196 Jan 05 04:26	10°る18'24		inferior conj	8196 Dec 14 23:50	27° ₹ 29'55	-2°19'39
morning rise	8196 Jan 07 23:19	8° පි 24'46		minimum elong	8196 Dec 15 04:13	27° × 18'52	
direct	8196 Jan 10 15:03	7° る 47'15		morning rise	8196 Dec 21 19:54	22° х 13′21	, .,
morning max el	8196 Jan 17 01:26	11°る11'22	18°01'36	asc. node	8196 Dec 22 01:28	22° ₹ 08'19	
	8196 Jan 30 04:56	0° ≈		direct	8196 Dec 24 05:06	21° х 45'53	
morning set	8196 Feb 04 00:10	7°≈54'20		morning max el	8196 Dec 30 18:48	25° ₹ 09'54	17°48'23
desc. node	8196 Feb 08 22:28	15° ≈ 59'49			8197 Jan 03 19:17	0°ප	-,
	8196 Feb 17 15:16	0°) €		morning set	8197 Jan 16 03:56	20° ප 13'37	
		• , ,			8197 Jan 21 20:27	0° ≈	
superior conj	8196 Feb 18 08:29	1°) €08'15	-1°04'26	desc. node	8197 Jan 25 19:28	6°≈40'06	
minimum elong	8196 Feb 18 01:03	0°) 38'47			2		
max. Earth dist.	8196 Feb 21 19:33		1.45312 AU	superior conj	8197 Jan 28 12:42	11° ≈ 10'05	-0°19'43
evening rise	8196 Mar 05 12:40	26°) €21'53		minimum elong	8197 Jan 28 10:35	11° ≈ 01'24	
o vonnig rise	8196 Mar 07 21:15	0°Υ		max. Earth dist.	8197 Feb 03 13:40		1.44421 AU
greatest brilliancy	8196 Mar 19 04:48	17° Y 12'04	-0.7m		8197 Feb 09 07:37	0° ∀	
5y	8196 Mar 28 12:35	0°8		evening rise	8197 Feb 12 23:48	5°) (40′59	
evening max el	8196 Mar 30 22:11	2° 8 39'41	19°41'49	3	8197 Mar 01 06:37	0°Υ	
asc. node	8196 Apr 02 03:23	4° 8 40'49	:- :-	evening max el	8197 Mar 13 23:10	16° Υ 18'36	20°44'58
retrograde	8196 Apr 07 07:12	6° 8 53'31		asc. node	8197 Mar 20 00:28	20° Υ 44'26	
evening set	8196 Apr 10 23:32	5° 8 34'22		retrograde	8197 Mar 20 00:28 8197 Mar 22 05:42	21° Υ 09'34	
inferior conj	8196 Apr 16 08:49	29° Υ 37'20	3°18'46	evening set	8197 Mar 26 07:20	19° Υ 35'14	
minimum elong	8196 Apr 16 07:49	29° Υ 40'42	3°18'37	inferior conj	8197 Mar 31 14:49	13° Y 25'39	3°02'13
ciong	8196 Apr 16 02:00	29 1 40 42 30°RΥ	5 1051	minimum elong	8197 Mar 31 13:00	13° Υ 31'54	3°01'53
min. Earth dist.	8196 Apr 17 11:34	28° Υ 08'20	0.67136 AU	min. Earth dist.	8197 Apr 01 03:48	13° $\Upsilon 31^{\circ}$ $\Upsilon 40^{\circ}$ 55°	0.67978 AU
morning rise	8196 Apr 21 15:46	23° Υ 19'37	0.0,150710	morning rise	8197 Apr 05 18:26	7° Υ 10'28	0.0,7,0110
direct	8196 Apr 27 15:50	20° Υ 39'06		direct	8197 Apr 11 05:30	4° Υ 44'58	
aneci	0190 Ani // 11 10						

morning max el	8197 Apr 22 04:00	11° Y 17'08	23°57'43		8198 Apr 09 07:04	0°Υ	
desc. node	8197 Apr 23 19:08	12° Υ 59'50	23 37 43	desc. node	8198 Apr 10 16:07	1° Υ 41'41	
desc. node	8197 May 07 02:06	0° 8		desc. node	8198 Apr 30 12:59	0°8	
	8197 May 26 08:23	0°II		morning set	8198 May 08 08:56	12° 8 26'24	
morning set	8197 May 27 16:11	2° I 15'42		max. Earth dist.	8198 May 13 07:48	20° 8 40'35	1.40620 AU
max. Earth dist.	8197 May 31 10:13	8° I I49'03	1.38372 AU	max. Earth dist.	8198 May 18 17:08	0°II	1.40020710
max. Lartii dist.	0177 Way 31 10.13	0 11 47 03	1.50572710		0170 Way 10 17.00	ν д	
superior conj	8197 Jun 07 17:25	22° Ⅱ 14'15	-1°15'04	superior conj	8198 May 21 02:52	4° Ⅱ 17'19	-1°43'40
minimum elong	8197 Jun 07 22:02	22° II 36'09	1°14'31	minimum elong	8198 May 21 08:39	4° ∏ 43'24	1°43'11
	8197 Jun 11 18:12	0°ಅ		evening rise	8198 May 31 06:14	23° Ⅱ 04'46	
asc. node	8197 Jun 15 23:31	8°916'57		asc. node	8198 Jun 02 20:33	27° Ⅲ 56'45	
evening rise	8197 Jun 16 17:08	9° 5 43'27			8198 Jun 03 23:09	0ಂತ	
	8197 Jun 28 00:08	$0^{\circ}\Omega$		evening max el	8198 Jun 16 08:05	18°5549'25	18°21'20
evening max el	8197 Jul 03 02:20	6° Ω 20′00	18°56'32	retrograde	8198 Jun 23 17:14	22°531'07	
retrograde	8197 Jul 11 16:21	10° Ω 34'48		evening set	8198 Jun 25 23:04	22°511'30	
evening set	8197 Jul 13 15:24	10° Ω 22'24		inferior conj	8198 Jul 03 08:42	17° © 34'37	1°14'14
desc. node	8197 Jul 20 18:25	6° Ω 51'59		minimum elong	8198 Jul 03 11:05	17° © 29'42	1°13'17
inferior conj	8197 Jul 21 20:52	6° Ω 05'55	-0°20'05	min. Earth dist.	8198 Jul 06 18:07	14°9547'43	0.58573 AU
minimum elong	8197 Jul 21 20:01	6° Ω 07'24	0°19'53	desc. node	8198 Jul 07 15:28	14° © 06'58	
min. Earth dist.	8197 Jul 24 21:49	3° £ 58′16	0.56592 AU	morning rise	8198 Jul 10 19:48	12° © 03'50	
morning rise	8197 Jul 29 21:23	1° Ω 09'42		direct	8198 Jul 16 22:57	10° © 24'18	
direct	8197 Aug 04 06:47	0° Ω 00'39		morning max el	8198 Jul 31 08:17	18° © 08'29	27°14'41
morning max el	8197 Aug 18 12:52	7° Ω 22'13	26°02'26		8198 Aug 10 06:21	$0 {\circ} \Omega$	
	8197 Sep 04 07:28	0° m p			8198 Aug 27 20:41	0° ™	
asc. node	8197 Sep 11 23:02	14° m 14'42		asc. node	8198 Aug 29 20:01	4° ™ 01'45	
morning set	8197 Sep 15 15:31	21° m 53'08		morning set	8198 Aug 31 00:09	6°Mp28'54	
	8197 Sep 19 09:17	0∘ ⊽					
				superior conj	8198 Sep 07 00:35	21° m 46'44	1°15'00
superior conj	8197 Sep 22 12:47	6° £ 57'10	1°29'14	minimum elong	8198 Sep 06 22:21	21° m 34'19	1°14'39
minimum elong	8197 Sep 22 10:53	6° ≏ 46'41	1°29'03	max. Earth dist.	8198 Sep 06 18:50	21° Mp 14'50	1.31666 AU
max. Earth dist.	8197 Sep 23 08:37	8° ≏ 46'42	1.31972 AU		8198 Sep 10 17:46	0∘ ত	
evening rise	8197 Sep 29 12:04	22° Ω 02'48		evening rise	8198 Sep 13 19:20	6° £ 37'51	
	8197 Oct 03 10:01	0°M			8198 Sep 25 23:24	0°M	
desc. node	8197 Oct 16 17:16	23°M11'17		desc. node	8198 Oct 03 14:20	11°M43'47	
	8197 Oct 21 11:26	0° ∡ ¹		evening max el	8198 Oct 13 05:36	23°M02'40	26°30'49
evening max el	8197 Oct 31 04:20	11° 🖈 12'51	27°16'51		8198 Oct 25 05:20	0° ⊀ 7	
retrograde	8197 Nov 14 00:44	18° 🗷 25'07		retrograde	8198 Oct 27 03:30	0° ∡ 09'07	
evening set	8197 Nov 21 02:27	16° ₹ 08'38	0.61506 ATT	. ,	8198 Oct 29 01:18	30°RM	
min. Earth dist.	8197 Nov 24 18:58	13°×21'01	0.61506 AU	evening set	8198 Nov 02 20:22	28°M18'02	0.59422 AU
inferior conj minimum elong	8197 Nov 27 19:56 8197 Nov 28 02:25	10° ₹ 38'55 10° ₹ 24'28		min. Earth dist. inferior conj	8198 Nov 06 19:05 8198 Nov 09 23:58	25°M43'11 23°M14'21	
morning rise	8197 Nov 28 02:23 8197 Dec 05 04:36	5° ₹ 41'13	3 27 03	minimum elong	8198 Nov 10 07:12	23°M00'18	4°32'08
direct	8197 Dec 03 04.30 8197 Dec 07 10:12	5° 🗷 20'10		morning rise	8198 Nov 17 20:23	18°M38'46	4 32 08
asc. node	8197 Dec 07 10:12 8197 Dec 08 22:31	5° ₹ 30'09		direct	8198 Nov 20 02:04	18°M20'57	
morning max el	8197 Dec 06 22:31 8197 Dec 14 10:34		17°53'20	asc. node	8198 Nov 25 19:33	20°M24'54	
morning max er	8197 Dec 28 05:24	0°る	17 33 20	morning max el	8198 Nov 27 21:22	22°M10'32	18°17'51
morning set	8197 Dec 30 03:31	3° ට 29'01		morning max or	8198 Dec 03 23:27	0°×7	10 17 51
morning sec	0137 200 30 03.51	3 029 01		morning set	8198 Dec 13 17:06	17° × ⁷ 23'07	
superior conj	8198 Jan 09 18:32	22° る 25'30	0°21'25		8198 Dec 20 09:18	0°る	
minimum elong	8198 Jan 09 20:23	22° る 33'29	0°21'17				
desc. node	8198 Jan 12 16:27	27° る 24'21		superior conj	8198 Dec 22 23:51	4°₹48'07	0°54'25
	8198 Jan 14 05:27	0° ≈		minimum elong	8198 Dec 23 03:13	5° る 03'26	0°54'06
max. Earth dist.	8198 Jan 17 04:21	4°≈53'31	1.42910 AU	max. Earth dist.	8198 Dec 30 14:08	18° る 12'10	1.40958 AU
evening rise	8198 Jan 23 17:37	15° ≈ 24'12		desc. node	8198 Dec 30 13:24	18° る 09'04	
C	8198 Feb 02 06:44	0° ∀		evening rise	8199 Jan 04 05:28	25° る 57'15	
	8198 Feb 24 19:14	$0^{\circ}\Upsilon$		Ü	8199 Jan 06 17:23	0° ≈	
evening max el	8198 Feb 24 18:50	29° ¥ 59'01	21°58'48		8199 Jan 27 00:56	0°)	
retrograde	8198 Mar 06 03:08	5° Ƴ 31'15		evening max el	8199 Feb 07 10:21	13°) 41'19	23°18'21
asc. node	8198 Mar 06 21:32	5° Y 28'15		retrograde	8199 Feb 17 22:04	19°) 53'41	
evening set	8198 Mar 10 15:20	3° Ƴ 41'35		asc. node	8199 Feb 21 18:37	18°) 40′20	
-	8198 Mar 14 00:42	30° ₹		evening set	8199 Feb 22 21:58	17°) 49'10	
inferior conj	8198 Mar 15 23:03	27°) 22′02	2°35'43	inferior conj	8199 Feb 28 07:37	11° ∺ 22'53	2°00'14
minimum elong	8198 Mar 15 20:50	27°) €29'46	2°35'10	minimum elong	8199 Feb 28 05:25	11°) € 30′26	1°59'34
min. Earth dist.	8198 Mar 15 23:22	27° ∺ 20′57	0.68376 AU	min. Earth dist.	8199 Feb 27 20:03	12°) 02′40	0.68354 AU
morning rise	8198 Mar 21 02:10	21° ∺ 10'49		morning rise	8199 Mar 05 12:51	5° 升 16'55	
direct	8198 Mar 25 23:11	19°) 05′46		direct	8199 Mar 09 19:56	3°) 34′20	
morning max el	8198 Apr 04 14:43	24°) 46′30	22°28'23	morning max el	8199 Mar 18 06:43	8° ∺ 26′09	21°05'06

dasa mada	8199 Mar 28 13:03	21°) 02'50		mamina may al	8200 Mar 01 06:18	229001750	19°53'35
desc. node	8199 Mar 28 13.03 8199 Apr 03 20:03	21 π 02 30 0° Υ		morning max el	8200 Mar 07 17:42	22°≈17'59 0° ₩	19 33 33
morning sat	8199 Apr 17 22:36	21° Υ 23'13		greatest brilliancy	8200 Mar 07 17.42 8200 Mar 14 10:27	9° ∺ 26'31	-0.6m
morning set	8199 Apr 23 08:36	0° 8		desc. node	8200 Mar 14 10.27 8200 Mar 15 09:59	10°\(\frac{1}{52}\)'56	-0.0111
may Forth dist	-		1.42670 AU	morning set	8200 Mar 13 09:39 8200 Mar 27 20:22	29°) (41'34	
max. Earth dist.	8199 Apr 25 11:13	3 023 18	1.42070 AU	morning set	8200 Mar 28 01:09	29 π 41 34 0° Υ	
aumorior comi	9100 May 02 14:45	15° 8 20'23	2004126	max. Earth dist.		16° Υ 58'00	1.44275 AU
superior conj minimum elong	8199 May 02 14:45 8199 May 02 19:18	15° 8 39'45		max. Earm dist.	8200 Apr 07 21:23	10 1 38 00	1.442/3 AU
minimum clong	8199 May 11 00:17	0° I	2 04 27	superior conj	8200 Apr 13 01:57	25° Y 18'33	2011/45
avanina riaa	8199 May 14 05:13	5° Π 44'23			*	25° Y 15'59	
evening rise	,	3° Ц 44 23 17° Ц 17'55		minimum elong	8200 Apr 13 01:19	0° 8	2-11-49
asc. node	8199 May 20 17:34	0°9			8200 Apr 15 22:51		
	8199 May 29 03:45		1000/107	evening rise	8200 Apr 26 09:26	17° ႘ 32'09 0° Ⅱ	
evening max el	8199 May 30 19:21	1°947'17	18°06'07	1	8200 May 03 17:39	0°Д 6°Д14'09	
retrograde	8199 Jun 06 11:16	5°911'33		asc. node	8200 May 07 14:37		1001010
evening set	8199 Jun 09 00:33	4°541'38		evening max el	8200 May 14 08:41	15° Ⅱ 04'56	18°10'02
	8199 Jun 15 10:27	30°RⅡ	2020120	retrograde	8200 May 20 18:00	18° Ⅱ 26'29	
inferior conj	8199 Jun 15 16:52	29° Ⅱ 44'39		evening set	8200 May 23 14:36	17° Ⅱ 44'07	
minimum elong	8199 Jun 15 19:55	29° Ⅲ 37′21	2°19'31	inferior conj	8200 May 29 17:32	12° Ⅱ 28'27	3°00'48
min. Earth dist.	8199 Jun 18 22:04	26° Ⅱ 41'02	0.60808 AU	minimum elong	8200 May 29 19:46	12° Ⅲ 22'23	3°00'16
morning rise	8199 Jun 22 12:46	23° Ⅱ 48'56		min. Earth dist.	8200 Jun 01 11:00	9° Ⅱ 31'44	0.62996 AU
desc. node	8199 Jun 24 12:31	22° Ⅱ 42'12		morning rise	8200 Jun 04 23:23	6° Ⅱ 18'31	
direct	8199 Jun 29 03:24	21° Ⅱ 38'32		desc. node	8200 Jun 11 09:33	3° Ⅱ 44'52	
morning max el	8199 Jul 13 10:34	29° Ⅱ 37'01	27°51'33	direct	8200 Jun 11 17:53	3° ∏ 44′29	
	8199 Jul 13 19:45	0°€		morning max el	8200 Jun 25 17:58	11° Ⅱ 47'31	27°50'10
	8199 Aug 04 06:16	$0^{\circ}\Omega$			8200 Jul 10 03:49	0 \circ \odot	
morning set	8199 Aug 15 04:37	20° Ω 49'51			8200 Jul 27 16:14	0 $^{\circ}$ Ω	
asc. node	8199 Aug 16 16:59	23° Ω 59'47		morning set	8200 Jul 30 02:42	4° Ω 49'31	
	8199 Aug 19 12:17	O° m		asc. node	8200 Aug 03 13:56	14° Ω 04'03	
max. Earth dist.	8199 Aug 21 04:08	3° ™ 37′29	1.31811 AU	max. Earth dist.	8200 Aug 04 08:33	15° Ω 42'59	1.32429 AU
superior conj	8199 Aug 22 11:30	6° m 30'02	0°55'57	superior conj	8200 Aug 06 19:41	21° Ω 01'22	0°32'28
minimum elong	8199 Aug 22 09:23	6° Mp 18'24	0°55'30	minimum elong	8200 Aug 06 18:14	20° Ω 53'27	
evening rise	8199 Aug 29 05:46	21° mp 19'18	0 33 30	minimum ciong	8200 Aug 10 22:32	0° m	0 32 04
evening rise	8199 Sep 02 09:49	0° <u>Ω</u>		evening rise	8200 Aug 10 22:32 8200 Aug 13 17:25	6° Mp 01'13	
desc. node	8199 Sep 20 11:24	0 — 29° ≏ 13'23		evening rise	8200 Aug 15 17:25 8200 Aug 26 07:41	0∘ ⊽	
desc. node	8199 Sep 21 03:16	0° M		evening max el	8200 Sep 06 10:27	0 — 14° Ω 23'27	23°38'49
evening max el	8199 Sep 24 22:44		25°14'26	desc. node	8200 Sep 07 08:30	15° ⊆ 15'09	23 30 47
retrograde	8199 Oct 08 20:12	11°ML02'50	23 14 20	retrograde	8200 Sep 07 08:30 8200 Sep 20 00:38	21° ⊆ 13'09	
evening set	8199 Oct 14 15:26	9°M45'50		evening set	8200 Sep 24 10:11	21° ⊆ 11'33 20° ⊆ 29'15	
min. Earth dist.	8199 Oct 14 13:20 8199 Oct 19 10:27		0.57408 AU	min. Earth dist.	8200 Sep 30 20:39		0.55770 AU
inferior conj	8199 Oct 19 10:27 8199 Oct 22 08:48	5°M07'21		inferior conj	8200 Sep 30 20:39 8200 Oct 02 21:24	17 = 23 22 16° £ 12'32	
	8199 Oct 22 08:48 8199 Oct 22 13:32	4°M59'20			8200 Oct 02 21:24 8200 Oct 02 19:33	16° ⊆ 1232	
minimum elong morning rise	8199 Oct 22 13:58 8199 Oct 30 13:58	0°M54'45	3 20 39	minimum elong morning rise	8200 Oct 02 19:33 8200 Oct 11 07:03	10 = 13 19 12° ⊆ 18'17	3 33 04
direct	8199 Nov 02 00:18	0°M37'20		direct	8200 Oct 11 07:03 8200 Oct 14 03:09	12 = 1817 11° ⊆ 58'17	
morning max el	8199 Nov 10 23:35	4°M54'06	19°03'36	morning max el	8200 Oct 14 03:09 8200 Oct 24 13:54	11 = 36 17 16° ⊆ 52'30	20011144
asc. node	8199 Nov 10 25:33 8199 Nov 12 16:34	6°M40'50	19 03 30	asc. node		24° £ 01'36	20 11 44
asc. Houe	8199 Nov 26 19:19	0° ⊼		asc. node	8200 Oct 30 13:34 8200 Nov 03 08:32	0°M	
morning set	8199 Nov 27 16:21	1° ∡ ¹43'42		morning set	8200 Nov 03 08:32 8200 Nov 11 21:58	16°M20'40	
morning set	6199 NOV 27 10.21	1 × 43 42		morning set		10 1162040 0° √ 7	
superior con-	8199 Dec 05 23:46	18° ∡ 04'06	101011		8200 Nov 18 13:51	υ χ .	
superior conj			1°18'11 1°18'00	superior comi	9200 Nov. 10, 12:15	1° ∡ 758'14	1022112
minimum elong	8199 Dec 06 02:54	0°る	1 10 00	superior conj	8200 Nov 19 13:15 8200 Nov 19 15:18		1°33'13 1°33'13
Fault die	8199 Dec 12 09:24		1 20002 ATT	minimum elong			
max. Earth dist.	8199 Dec 12 19:58	0°る47'33	1.38802 AU	max. Earth dist.	8200 Nov 25 02:20	12° 🗷 50'32	1.36695 AU
evening rise	8199 Dec 16 15:28	7° る 29'52		evening rise	8200 Nov 28 21:59	19° ∡ 756'44	
desc. node	8199 Dec 17 10:24	8° る 51'04		desc. node	8200 Dec 04 07:25	29° ₹ 25'42	
	8199 Dec 30 16:13	0° ≈	2.402.712.7		8200 Dec 04 15:30	ිර ව	
evening max el	8200 Jan 20 23:45	27°≈27'05	24°37'27		8200 Dec 24 17:35	0°≈	25040112
	8200 Jan 23 18:21	0°) (12)25		evening max el	8201 Jan 03 12:52	11°≈14'26	25°49'12
retrograde	8200 Feb 01 13:21	4° ★ 12'35		retrograde	8201 Jan 15 23:55	18°≈21'45	
evening set	8200 Feb 07 01:42	1°) 54'39		evening set	8201 Jan 22 00:54	15°≈53'05	0.48111
asc. node	8200 Feb 08 15:42	0° ₩ 22'55		min. Earth dist.	8201 Jan 26 08:08	11°≈15'21	0.67141 AU
	8200 Feb 09 00:04	30°R≈	0.68625 :==	asc. node	8201 Jan 26 12:47	11°≈00'46	000 //2 -
min. Earth dist.	8200 Feb 11 15:45	26°≈42'24	0.67937 AU	inferior conj	8201 Jan 27 18:26	9° ≈ 27'05	0°24'35
inferior conj	8200 Feb 12 14:42	25° ≈ 25'58	1°16'22	minimum elong	8201 Jan 27 17:48	9° ≈ 29'04	0°24'27
minimum elong	8200 Feb 12 13:02		1°15'50	morning rise	8201 Feb 02 11:14	3°≈36'15	
morning rise	8200 Feb 18 00:32	19° ≈ 26′34		direct	8201 Feb 05 17:44	2° ≈ 34'57	
direct	8200 Feb 21 18:36	18° ≈ 05'51		morning max el	8201 Feb 12 13:34	6°≈19'16	18°57'04

	8201 Mar 01 14:27	0° ∀		minimum elong	8202 Jan 11 17:42	23° る 19'11	0°34'00
desc. node	8201 Mar 02 06:56	1°) €03'48		asc. node	8202 Jan 13 09:53	21° පි 24'16	
morning set	8201 Mar 07 02:07	8° ∺ 31'02		morning rise	8202 Jan 17 18:42	17° る 42'15	
C	8201 Mar 20 20:24	$0^{\circ}\mathbf{\Upsilon}$		direct	8202 Jan 20 15:21	16° る 57'02	
max. Earth dist.	8201 Mar 21 13:24	1° Y 06'41	1.45255 AU	morning max el	8202 Jan 27 02:55	20° පි 25'12	18°16'57
					8202 Feb 03 13:51	0° ≈	
superior conj	8201 Mar 23 15:16	4° Υ 22'43	-1°59'44	morning set	8202 Feb 15 10:19	18° ≈ 42'43	
minimum elong	8201 Mar 23 07:47	3° Y 53'14	1°59'18	desc. node	8202 Feb 17 03:54	21° ≈ 29'43	
evening rise	8201 Apr 07 14:52	28° Y 21′19			8202 Feb 22 11:38	0° ∀	
	8201 Apr 08 15:07	0°8					
asc. node	8201 Apr 24 11:41	24° 8 37'19		superior conj	8202 Mar 02 19:58	13° ∺ 10′27	-1°28'24
evening max el	8201 Apr 27 21:08	28° 8 34'43	18°32'19	minimum elong	8202 Mar 02 10:34	12°) 33′35	1°27'20
	8201 Apr 29 10:36	$\Pi^{\circ}0$		max. Earth dist.	8202 Mar 04 08:58	15°) 35′28	1.45511 AU
retrograde	8201 May 04 09:12	2° Ⅱ 07'08			8202 Mar 13 14:15	0 ° $\mathbf{\Upsilon}$	
evening set	8201 May 07 13:07	1° Ⅱ 10'54		evening rise	8202 Mar 18 21:17	8° Υ 16'22	
	8201 May 09 04:24	30° ₹8		greatest brilliancy	8202 Mar 30 00:06	25° Y 34'05	-0.8m
inferior conj	8201 May 13 06:35	25° 8 37'55	3°20'11		8202 Apr 01 22:39	0°8	
minimum elong	8201 May 13 07:29	25° 8 35'11	3°19'59	asc. node	8202 Apr 11 08:46	12° 8 16'38	
min. Earth dist.	8201 May 15 09:05	23° 8 07'04	0.64916 AU	evening max el	8202 Apr 11 06:12	12° 8 10'09	19°11'54
morning rise	8201 May 19 01:03	19° 8 21'40		retrograde	8202 Apr 18 05:21	16° 8 05'39	
direct	8201 May 25 16:19	16° 8 35'53		evening set	8202 Apr 21 17:00	14° 8 54'50	
desc. node	8201 May 29 06:35	17° 8 17'41		inferior conj	8202 Apr 27 04:24	9° 8 05'57	3°23'09
morning max el	8201 Jun 08 03:57	24° 8 31'35	27°14'04	minimum elong	8202 Apr 27 04:01	9° 8 07'11	3°23'03
	8201 Jun 13 02:25	0°II		min. Earth dist.	8202 Apr 28 15:30	7° 8 12'52	0.66450 AU
_	8201 Jul 03 14:01	0°©		morning rise	8202 May 02 14:39	2° 8 48'04	
morning set	8201 Jul 13 15:43	18°920'25		direct	8202 May 08 21:17	0° 8 02'49	
max. Earth dist.	8201 Jul 18 04:35	27° © 23'34	1.33534 AU	desc. node	8202 May 16 03:35	2° 8 52'26	2 (01 0120
	8201 Jul 19 10:58	0° Ω		morning max el	8202 May 21 14:11	7° 8 37'23	26°10'29
asc. node	8201 Jul 21 10:56	4° Ω 10'37			8202 Jun 07 23:50	0° Ⅱ	
	0201 1 1 21 22 06	50 01 4150	0005100	. ,	8202 Jun 26 00:32	0°9	
superior conj	8201 Jul 21 23:06	5° Ω 14'52 5° Ω 13'30	0°05'09	morning set	8202 Jun 26 15:58	1°511'29	1 25116 ATT
minimum elong	8201 Jul 21 22:51	5°8 (13'30' 4° Ω 45'26'	0°04'58	max. Earth dist.	8202 Jun 30 13:54	8° © 37'59	1.35116 AU
behind sun begin behind sun end	8201 Jul 21 17:32 8201 Jul 22 04:10	5° Ω 41'38			8202 Jul 05 19:11	19° © 02'25	0025112
evening rise	8201 Jul 22 04:10 8201 Jul 29 04:26	3 δ (41 38 20° Ω 38'09		superior conj minimum elong	8202 Jul 05 19:11 8202 Jul 05 20:38	19 502 23 19°509'51	0°25'04
evening rise	8201 Aug 02 18:03	0° m)		asc. node	8202 Jul 08 07:55	24°©14'45	0 23 04
evening max el	8201 Aug 19 00:28	24° m) 39'18	22°00'29	asc. nouc	8202 Jul 11 02:20	0°Ω	
desc. node	8201 Aug 25 05:36	29° mp 18'38	22 00 2)	evening rise	8202 Jul 13 12:41	5° Ω 02'51	
dese. Hode	8201 Aug 26 18:19	0° <u>0</u>		evening rise	8202 Jul 27 11:27	0° m)	
retrograde	8201 Aug 31 17:04	0° ≏ 57'37		evening max el	8202 Aug 01 00:35	5°Mp21'06	20°33'45
evening set	8201 Sep 03 15:36	0° £ 38'23		retrograde	8202 Aug 12 05:11	10° m 53'12	20 33 .0
evening sec	8201 Sep 05 21:15	30°R MD		desc. node	8202 Aug 12 02:42	10° m 53'10	
min. Earth dist.	8201 Sep 12 05:06		0.54830 AU	evening set	8202 Aug 14 06:24	10° mp 42'49	
inferior conj	8201 Sep 12 18:21	26° m/37'29		inferior conj	8202 Aug 23 11:12	6° m 45'43	-3°20'54
minimum elong	8201 Sep 12 09:53	26° m/49'20		minimum elong	8202 Aug 23 02:27	6° m 58'19	
morning rise	8201 Sep 21 05:36	22° m/49'01		min. Earth dist.	8202 Aug 24 14:31	6° Mp 06'21	0.54795 AU
direct	8201 Sep 24 15:26	22° m) 23'17		morning rise	8202 Aug 31 22:08	2° m 43'05	
morning max el	8201 Oct 06 15:12	28° m) 01'58	21°40'52	direct	8202 Sep 05 00:11	2° m 07'19	
	8201 Oct 08 14:13	0∘ ⊽		morning max el	8202 Sep 18 06:41	8° m 31'27	23°24'25
asc. node	8201 Oct 17 10:34	12° ♀ 12'54			8202 Oct 03 17:55	0∘ ত	
	8201 Oct 26 18:36	0°M₊		asc. node	8202 Oct 04 07:33	1° ഫ 02'10	
morning set	8201 Oct 27 07:30	1°ML07'13		morning set	8202 Oct 11 18:57	15° ≙ 57'18	
					8202 Oct 18 07:15	0°M₊	
superior conj	8201 Nov 03 12:21	16°ML19'11	1°40'27				
minimum elong	8201 Nov 03 13:04	16°M22'54	1°40'33	superior conj	8202 Oct 18 17:55	0°M57'28	1°40'49
max. Earth dist.	8201 Nov 07 14:35	24°M44'07	1.34847 AU	minimum elong	8202 Oct 18 17:23	0°M54'35	1°40'53
	8201 Nov 10 06:18	0° ∡ ¹		max. Earth dist.	8202 Oct 21 11:03	6°M45'12	1.33379 AU
evening rise	8201 Nov 11 21:19	3° ≯ 08′20		evening rise	8202 Oct 26 09:34	16°M54'14	
desc. node	8201 Nov 21 04:28	19° ∡ ′48'10			8202 Nov 02 07:24	0°⊀	
	8201 Nov 27 13:13	0°₹		desc. node	8202 Nov 08 01:32	9° ∡ 52′24	
evening max el	8201 Dec 17 02:15	24° る 57'05	26°46'11		8202 Nov 22 00:22	0°ರ	
	8201 Dec 23 09:39	0° ≈		evening max el	8202 Nov 29 14:58	8° 궁 24'09	27°21'12
retrograde	8201 Dec 30 04:52	2° ≈ 14'48		retrograde	8202 Dec 13 03:41	15° る 43'56	
	8202 Jan 05 07:09	30°Rる		evening set	8202 Dec 20 01:46	13° る 08'29	
evening set	8202 Jan 05 17:40	29° る 39'36		min. Earth dist.	8202 Dec 23 21:34		0.64469 AU
min. Earth dist.	8202 Jan 09 18:49		0.65981 AU	inferior conj	8202 Dec 26 07:10	7° る 05'13	
inferior conj	8202 Jan 11 16:43	23° る 22'02	-0°34'35	minimum elong	8202 Dec 26 10:14	6° る 57'02	1°38'32

asc. node	8202 Dec 31 06:57	2°る30'29		morning rise	8203 Dec 16 12:21	15° ₹ 20'33	
morning rise	8203 Jan 01 20:15	1° る 39'29		asc. node	8203 Dec 18 04:00	14° ₹ 58'15	
direct	8203 Jan 04 09:00	1°る06'36		direct	8203 Dec 18 19:36	14° ₹ 56'17	. =
morning max el	8203 Jan 10 19:44	4° ප 29'11	17°53'50	morning max el	8203 Dec 25 12:54	18° ₹ 22'38	17°48'14
morning set	8203 Jan 27 23:40	0° ≈ 20'50			8204 Jan 02 23:06	0° ろ	
	8203 Jan 27 18:43	0° ≈		morning set	8204 Jan 10 12:38	13° る 06'21	
desc. node	8203 Feb 04 00:51	12° ≈ 06′13			8204 Jan 20 05:49	0° ≈	
				desc. node	8204 Jan 21 21:48	2° ≈ 48'40	
superior conj	8203 Feb 10 11:33	22° ≈ 35'15	-0°45'29				
minimum elong	8203 Feb 10 06:20	22° ≈ 14'15	0°44'39	superior conj	8204 Jan 22 02:37	3° ≈ 08'52	-0°01'29
max. Earth dist.	8203 Feb 15 04:44	0°) €05'38	1.45017 AU	minimum elong	8204 Jan 22 02:28	3° ≈ 08'16	0°01'19
	8203 Feb 15 03:18	0° ℋ		behind sun begin	8204 Jan 21 17:26	2° ≈ 30′22	
evening rise	8203 Feb 26 11:42	17°) 39'19		behind sun end	8204 Jan 22 11:30	3° ≈ 46′04	
	8203 Mar 06 14:11	0 ° Υ		max. Earth dist.	8204 Jan 28 21:29	14° ≈ 17'49	1.43840 AU
greatest brilliancy	8203 Mar 13 08:04	10° Ƴ 02'12	-0.6m	evening rise	8204 Feb 05 23:49	27° ≈ 04'14	
evening max el	8203 Mar 25 10:17	25° Ƴ 48'13	20°07'05		8204 Feb 07 21:26	0° ∀	
asc. node	8203 Mar 29 05:52	28° Ƴ 59'47			8204 Feb 28 11:55	0 ° Υ	
	8203 Mar 31 08:47	$B_{\circ 0}$		evening max el	8204 Mar 07 08:47	9° Ƴ 27'13	21°15'17
retrograde	8203 Apr 02 03:43	0° ප 17'07		asc. node	8204 Mar 15 02:58	14° Ƴ 31'21	
•	8203 Apr 03 21:14	30° ŖƳ		retrograde	8204 Mar 16 02:05	14° Ƴ 36′07	
evening set	8203 Apr 05 23:56	28° Ƴ 51'21		evening set	8204 Mar 20 08:00	12° Y 55'17	
inferior conj	8203 Apr 11 08:08	22° Ƴ 48'27	3°13'04	inferior conj	8204 Mar 25 15:20	6° Y 40'50	2°52'08
minimum elong	8203 Apr 11 06:44	22° Y 53'11	3°12'50	minimum elong	8204 Mar 25 13:17	6° Ƴ 47'55	2°51'41
min. Earth dist.	8203 Apr 12 04:47	21° Υ 38'29	0.67547 AU	min. Earth dist.	8204 Mar 25 22:47	6° Ƴ 14'58	0.68197 AU
morning rise	8203 Apr 16 13:18	16° Υ 31'40	***************************************	morning rise	8204 Mar 30 18:23	0° Υ 26'58	***************************************
direct	8203 Apr 22 07:56	13° Y 56'59			8204 Mar 31 07:07	30°R) €	
desc. node	8203 May 03 00:34	19° Υ 58'51		direct	8204 Apr 04 23:24	28°) (09'51	
morning max el	8203 May 03 00:34 8203 May 03 23:36	20° Υ 55'52	24°48'50	direct	8204 Apr 04 25:24 8204 Apr 10 05:21	20 γ (0)31	
morning max ci	8203 May 11 19:17	0° と	24 46 30	morning max el	8204 Apr 15 09:02	4° Υ 21'09	23°19'23
	8203 Jun 01 04:57	0°II		desc. node	8204 Apr 18 21:31	8°Υ11'20	23 1923
morning sat	8203 Jun 08 22:55	0 П 13° П 11'11		desc. node	8204 May 05 01:05	0° 8	
morning set		13 Ⅲ 11111 19° Ⅲ 42'28	1.37105 AU	marning act	•	24° 8 05'11	
max. Earth dist.	8203 Jun 12 13:46 8203 Jun 18 00:47	19 п 42 28	1.5/105 AU	morning set	8204 May 20 07:02	24 3 03 11 0° Ⅱ	
	8203 Juli 18 00.47	0 39		E d E d	8204 May 23 18:18		1 20220 411
				max. Earth dist.	8204 May 24 09:32	1°Щ06′04	1.39330 AU
	9202 I 10 04-54	206-17122	0057100		,		
superior conj	8203 Jun 19 04:54	2°516'33				1.40 11.4011.4	1027150
minimum elong	8203 Jun 19 08:24	2°533'37		superior conj	8204 Jun 01 00:27	14°∏48'14	
minimum elong asc. node	8203 Jun 19 08:24 8203 Jun 25 04:55	2°\$33'37 14°\$12'46		superior conj minimum elong	8204 Jun 01 00:27 8204 Jun 01 05:45	15° Ⅱ 12'49	
minimum elong	8203 Jun 19 08:24 8203 Jun 25 04:55 8203 Jun 27 15:53	2°\$33'37 14°\$12'46 19°\$09'02		minimum elong	8204 Jun 01 00:27 8204 Jun 01 05:45 8204 Jun 09 00:07	15°∏12'49 0°©	
minimum elong asc. node evening rise	8203 Jun 19 08:24 8203 Jun 25 04:55 8203 Jun 27 15:53 8203 Jul 03 05:33	2°\$33'37 14°\$12'46 19°\$09'02 0°\$\Omega\$	0°56'33	minimum elong evening rise	8204 Jun 01 00:27 8204 Jun 01 05:45 8204 Jun 09 00:07 8204 Jun 10 11:07	15° I I12'49 0°ഇ 2° © 49'00	
minimum elong asc. node evening rise evening max el	8203 Jun 19 08:24 8203 Jun 25 04:55 8203 Jun 27 15:53 8203 Jul 03 05:33 8203 Jul 14 13:55	2°\$33'37 14°\$12'46 19°\$09'02 0°\$1 16°\$146'07	0°56'33	minimum elong evening rise asc. node	8204 Jun 01 00:27 8204 Jun 01 05:45 8204 Jun 09 00:07 8204 Jun 10 11:07 8204 Jun 11 01:57	15°II12'49 0°S 2°S49'00 4°S00'32	1°27'15
minimum elong asc. node evening rise evening max el retrograde	8203 Jun 19 08:24 8203 Jun 25 04:55 8203 Jun 27 15:53 8203 Jul 03 05:33 8203 Jul 14 13:55 8203 Jul 24 01:40	2°\$33'37 14°\$12'46 19°\$09'02 0°\$ 16°\$\Omega 46'07 21°\$\Omega 27'20	0°56'33	minimum elong evening rise	8204 Jun 01 00:27 8204 Jun 01 05:45 8204 Jun 09 00:07 8204 Jun 10 11:07 8204 Jun 11 01:57 8204 Jun 26 14:45	15° II 12'49 0° II 2'49 0° II 2'49'00 2° II 2'49'00' 32 4° II 2'49' 33	
minimum elong asc. node evening rise evening max el retrograde evening set	8203 Jun 19 08:24 8203 Jun 25 04:55 8203 Jun 27 15:53 8203 Jul 03 05:33 8203 Jul 14 13:55 8203 Jul 24 01:40 8203 Jul 25 22:17	2°\$33'37 14°\$12'46 19°\$09'02 0°\$ 16°\$A46'07 21°\$A27'20 21°\$A17'19	0°56'33	evening rise asc. node evening max el	8204 Jun 01 00:27 8204 Jun 01 05:45 8204 Jun 09 00:07 8204 Jun 10 11:07 8204 Jun 11 01:57 8204 Jun 26 14:45 8204 Jun 27 19:22	15°∏12'49 0°© 2°©49'00 4°©00'32 28°©54'33 0°Ω	1°27'15
minimum elong asc. node evening rise evening max el retrograde evening set desc. node	8203 Jun 19 08:24 8203 Jun 25 04:55 8203 Jun 27 15:53 8203 Jul 03 05:33 8203 Jul 14 13:55 8203 Jul 24 01:40 8203 Jul 25 22:17 8203 Jul 29 23:47	2°\$33'37 14°\$12'46 19°\$09'02 0°\$\Omega\$ 16°\$\Omega\$46'07 21°\$\Omega\$27'20 21°\$\Omega\$17'19 19°\$\Omega\$53'34	0°56'33 19°26'01	evening rise asc. node evening max el	8204 Jun 01 00:27 8204 Jun 01 05:45 8204 Jun 09 00:07 8204 Jun 10 11:07 8204 Jun 11 01:57 8204 Jun 26 14:45 8204 Jun 27 19:22 8204 Jul 04 15:17	15° H 12'49 0°\$ 2°\$49'00 4°\$00'32 28°\$54'33 0°\$ 2°\$\Omega\$53'28	1°27'15
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj	8203 Jun 19 08:24 8203 Jun 25 04:55 8203 Jun 27 15:53 8203 Jul 03 05:33 8203 Jul 14 13:55 8203 Jul 24 01:40 8203 Jul 25 22:17 8203 Jul 29 23:47 8203 Aug 03 14:34	2°\$33'37 14°\$12'46 19°\$09'02 0°\$ 16°\$\Omega 46'07 21°\$\Omega 27'20 21°\$\Omega 17'19 19°\$\Omega 53'34 17°\$\Omega 10'34	0°56'33 19°26'01 -1°24'49	evening rise asc. node evening max el	8204 Jun 01 00:27 8204 Jun 01 05:45 8204 Jun 09 00:07 8204 Jun 10 11:07 8204 Jun 11 01:57 8204 Jun 26 14:45 8204 Jun 27 19:22 8204 Jul 04 15:17 8204 Jul 06 16:48	15° II 12'49 0° II 2'49 2° II 2'49 2° II 2'49 4° II 2'49 4° II 2'49 2° II 3'49 2° I	1°27'15
minimum elong asc. node evening rise evening max el retrograde evening set desc. node	8203 Jun 19 08:24 8203 Jun 25 04:55 8203 Jun 27 15:53 8203 Jul 03 05:33 8203 Jul 14 13:55 8203 Jul 24 01:40 8203 Jul 25 22:17 8203 Jul 29 23:47 8203 Aug 03 14:34 8203 Aug 03 10:45	2°\$33'37 14°\$12'46 19°\$09'02 0°\$\Omega\$ 16°\$\Omega\$46'07 21°\$\Omega\$27'20 21°\$\Omega\$17'19 19°\$\Omega\$53'34 17°\$\Omega\$16'44	0°56'33 19°26'01 -1°24'49	evening rise asc. node evening max el retrograde evening set	8204 Jun 01 00:27 8204 Jun 01 05:45 8204 Jun 09 00:07 8204 Jun 10 11:07 8204 Jun 11 01:57 8204 Jun 26 14:45 8204 Jun 27 19:22 8204 Jul 04 15:17	15° H 12'49 0°\$ 2°\$49'00 4°\$00'32 28°\$54'33 0°\$ 2°\$\Omega\$53'28	1°27'15
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist.	8203 Jun 19 08:24 8203 Jun 25 04:55 8203 Jun 27 15:53 8203 Jul 03 05:33 8203 Jul 14 13:55 8203 Jul 24 01:40 8203 Jul 25 22:17 8203 Jul 29 23:47 8203 Aug 03 14:34 8203 Aug 03 10:45 8203 Aug 06 03:07	2°\$33'37 14°\$12'46 19°\$09'02 0°\$\Omega\$ 16°\$\Omega\$46'07 21°\$\Omega\$27'20 21°\$\Omega\$17'19 19°\$\Omega\$53'34 17°\$\Omega\$10'34 17°\$\Omega\$16'44 15°\$\Omega\$32'58	0°56'33 19°26'01 -1°24'49	evening rise asc. node evening max el retrograde evening set inferior conj	8204 Jun 01 00:27 8204 Jun 01 05:45 8204 Jun 09 00:07 8204 Jun 10 11:07 8204 Jun 11 01:57 8204 Jun 26 14:45 8204 Jun 27 19:22 8204 Jul 04 15:17 8204 Jul 06 16:48	15° II 12'49 0° II 2'49 2° II 2'49 2° II 2'49 4° II 2'49 4° II 2'49 2° II 3'49 2° I	1°27'15 18°39'07 0°23'13
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	8203 Jun 19 08:24 8203 Jun 25 04:55 8203 Jun 27 15:53 8203 Jul 03 05:33 8203 Jul 14 13:55 8203 Jul 24 01:40 8203 Jul 25 22:17 8203 Jul 29 23:47 8203 Aug 03 14:34 8203 Aug 03 10:45 8203 Aug 06 03:07 8203 Aug 11 20:35	2°\$33'37 14°\$12'46 19°\$09'02 0°\$\Omega\$ 16°\$\Omega\$46'07 21°\$\Omega\$27'20 21°\$\Omega\$17'19 19°\$\Omega\$53'34 17°\$\Omega\$10'34 17°\$\Omega\$16'44 15°\$\Omega\$32'58 12°\$\Omega\$35'31	0°56'33 19°26'01 -1°24'49 1°23'27	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	8204 Jun 01 00:27 8204 Jun 01 05:45 8204 Jun 09 00:07 8204 Jun 10 11:07 8204 Jun 11 01:57 8204 Jun 26 14:45 8204 Jun 27 19:22 8204 Jul 04 15:17 8204 Jul 06 16:48 8204 Jul 12 03:16 8204 Jul 14 13:46 8204 Jul 14 13:46	15° II 12'49 0° II 2'49 0° II 2'90'00 4° II 3'00'32 28° II 5'54'33 0° II 2° II 3'55' 28° II 3'57 28° II 2'18	1°27'15 18°39'07
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist.	8203 Jun 19 08:24 8203 Jun 25 04:55 8203 Jun 27 15:53 8203 Jul 03 05:33 8203 Jul 14 13:55 8203 Jul 24 01:40 8203 Jul 25 22:17 8203 Jul 29 23:47 8203 Aug 03 14:34 8203 Aug 03 10:45 8203 Aug 06 03:07 8203 Aug 11 20:35 8203 Aug 16 17:55	2°\$33'37 14°\$12'46 19°\$09'02 0°\$\Omega\$ 16°\$\Omega\$46'07 21°\$\Omega\$27'20 21°\$\Omega\$17'19 19°\$\Omega\$53'34 17°\$\Omega\$16'44 15°\$\Omega\$32'58 12°\$\Omega\$35'31 11°\$\Omega\$41'32	0°56'33 19°26'01 -1°24'49 1°23'27 0.55698 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node	8204 Jun 01 00:27 8204 Jun 01 05:45 8204 Jun 09 00:07 8204 Jun 10 11:07 8204 Jun 11 01:57 8204 Jun 26 14:45 8204 Jun 27 19:22 8204 Jul 04 15:17 8204 Jul 06 16:48 8204 Jul 12 03:16 8204 Jul 14 13:46	15° II 12'49 0° II 2° II 49'00 4° II 60'03 28° II 54'33 0° II 2° II 53'28 2° II 38'35 30° II II 60'00 28° II 3'57	1°27'15 18°39'07 0°23'13
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	8203 Jun 19 08:24 8203 Jun 25 04:55 8203 Jun 27 15:53 8203 Jul 03 05:33 8203 Jul 14 13:55 8203 Jul 24 01:40 8203 Jul 25 22:17 8203 Jul 29 23:47 8203 Aug 03 14:34 8203 Aug 03 10:45 8203 Aug 06 03:07 8203 Aug 11 20:35	2°\$33'37 14°\$12'46 19°\$09'02 0°\$\Omega\$ 16°\$\Omega\$46'07 21°\$\Omega\$27'20 21°\$\Omega\$17'19 19°\$\Omega\$53'34 17°\$\Omega\$10'34 17°\$\Omega\$16'44 15°\$\Omega\$32'58 12°\$\Omega\$35'31	0°56'33 19°26'01 -1°24'49 1°23'27 0.55698 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	8204 Jun 01 00:27 8204 Jun 01 05:45 8204 Jun 09 00:07 8204 Jun 10 11:07 8204 Jun 11 01:57 8204 Jun 26 14:45 8204 Jun 27 19:22 8204 Jul 04 15:17 8204 Jul 06 16:48 8204 Jul 12 03:16 8204 Jul 14 13:46 8204 Jul 14 13:46	15° I 12'49 0° S 2° S 49'00 4° S 00'32 28° S 54'33 0° A 2° A 53'28 2° A 38'35 30° RS 28° S 13'57 28° S 12'18 27° S 15'03	1°27'15 18°39'07 0°23'13
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	8203 Jun 19 08:24 8203 Jun 25 04:55 8203 Jun 27 15:53 8203 Jul 03 05:33 8203 Jul 14 13:55 8203 Jul 24 01:40 8203 Jul 25 22:17 8203 Jul 29 23:47 8203 Aug 03 14:34 8203 Aug 03 10:45 8203 Aug 06 03:07 8203 Aug 11 20:35 8203 Aug 16 17:55	2°\$33'37 14°\$12'46 19°\$09'02 0°\$\Omega\$ 16°\$\Omega\$46'07 21°\$\Omega\$27'20 21°\$\Omega\$17'19 19°\$\Omega\$53'34 17°\$\Omega\$16'44 15°\$\Omega\$32'58 12°\$\Omega\$35'31 11°\$\Omega\$41'32	0°56'33 19°26'01 -1°24'49 1°23'27 0.55698 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node	8204 Jun 01 00:27 8204 Jun 01 05:45 8204 Jun 09 00:07 8204 Jun 10 11:07 8204 Jun 11 01:57 8204 Jun 26 14:45 8204 Jun 27 19:22 8204 Jul 04 15:17 8204 Jul 06 16:48 8204 Jul 12 03:16 8204 Jul 14 13:46 8204 Jul 14 14:39 8204 Jul 15 20:49	15° I 12'49 0° S 2° S 49'00 4° S 00'32 28° S 54'33 0° A 2° A 53'28 2° A 38'35 30° RS 28° S 13'57 28° S 12'18 27° S 15'03	1°27'15 18°39'07 0°23'13 0°22'45
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	8203 Jun 19 08:24 8203 Jun 25 04:55 8203 Jun 27 15:53 8203 Jul 03 05:33 8203 Jul 14 13:55 8203 Jul 24 01:40 8203 Jul 25 22:17 8203 Jul 29 23:47 8203 Aug 03 14:34 8203 Aug 03 10:45 8203 Aug 06 03:07 8203 Aug 11 20:35 8203 Aug 16 17:55 8203 Aug 30 19:12	2°\$33'37 14°\$12'46 19°\$09'02 0°\$\Omega\$ 16°\$\Omega\$46'07 21°\$\Omega\$27'20 21°\$\Omega\$17'19 19°\$\Omega\$53'34 17°\$\Omega\$10'34 15°\$\Omega\$32'58 12°\$\Omega\$35'31 11°\$\Omega\$41'32 18°\$\Omega\$45'42	0°56'33 19°26'01 -1°24'49 1°23'27 0.55698 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist.	8204 Jun 01 00:27 8204 Jun 01 05:45 8204 Jun 09 00:07 8204 Jun 10 11:07 8204 Jun 11 01:57 8204 Jun 26 14:45 8204 Jun 27 19:22 8204 Jul 04 15:17 8204 Jul 06 16:48 8204 Jul 12 03:16 8204 Jul 14 13:46 8204 Jul 14 14:39 8204 Jul 15 20:49 8204 Jul 17 20:19	15° I 12'49 0° S 2° S 49'00 4° S 00'32 28° S 54'33 0° A 2° A 53'28 2° A 38'35 30° R 28° S 13'57 28° S 12'18 27° S 15'03 25° S 46'50	1°27'15 18°39'07 0°23'13 0°22'45
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	8203 Jun 19 08:24 8203 Jun 25 04:55 8203 Jun 27 15:53 8203 Jul 03 05:33 8203 Jul 14 13:55 8203 Jul 24 01:40 8203 Jul 25 22:17 8203 Jul 29 23:47 8203 Aug 03 10:45 8203 Aug 06 03:07 8203 Aug 11 20:35 8203 Aug 16 17:55 8203 Aug 30 19:12 8203 Sep 09 05:08	2°\$33'37 14°\$12'46 19°\$09'02 0°\$\Omega\$ 16°\$\Omega\$46'07 21°\$\Omega\$27'20 21°\$\Omega\$17'19 19°\$\Omega\$53'34 17°\$\Omega\$10'34 15°\$\Omega\$35'31 11°\$\Omega\$41'32 18°\$\Omega\$45'42 0°\$\Omega\$	0°56'33 19°26'01 -1°24'49 1°23'27 0.55698 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise	8204 Jun 01 00:27 8204 Jun 01 05:45 8204 Jun 09 00:07 8204 Jun 10 11:07 8204 Jun 11 01:57 8204 Jun 26 14:45 8204 Jun 27 19:22 8204 Jul 04 15:17 8204 Jul 06 16:48 8204 Jul 12 03:16 8204 Jul 14 13:46 8204 Jul 14 14:39 8204 Jul 15 20:49 8204 Jul 17 20:19 8204 Jul 17 20:19 8204 Jul 22 08:58	15° H 12'49 0° S 2° S 49'00 4° S 00'32 28° S 54'33 0° A 2° A 53'28 2° A 38'35 30° R 28° S 13'57 28° S 12'18 27° S 15'03 25° S 46'50 23° S 01'48	1°27'15 18°39'07 0°23'13 0°22'45 0.57374 AU
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	8203 Jun 19 08:24 8203 Jun 25 04:55 8203 Jun 27 15:53 8203 Jul 03 05:33 8203 Jul 14 13:55 8203 Jul 24 01:40 8203 Jul 25 22:17 8203 Jul 29 23:47 8203 Aug 03 10:45 8203 Aug 06 03:07 8203 Aug 11 20:35 8203 Aug 16 17:55 8203 Aug 30 19:12 8203 Sep 09 05:08 8203 Sep 21 04:30	2°\$33'37 14°\$12'46 19°\$09'02 0°\$\Omega\$ 16°\$\Omega\$46'07 21°\$\Omega\$27'20 21°\$\Omega\$17'19 19°\$\Omega\$53'34 17°\$\Omega\$16'44 15°\$\Omega\$35'31 11°\$\Omega\$41'32 18°\$\Omega\$45'42 0°\$\Omega\$20'\$\Omega\$19'49	0°56'33 19°26'01 -1°24'49 1°23'27 0.55698 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct	8204 Jun 01 00:27 8204 Jun 01 05:45 8204 Jun 09 00:07 8204 Jun 10 11:07 8204 Jun 11 01:57 8204 Jun 26 14:45 8204 Jun 27 19:22 8204 Jul 04 15:17 8204 Jul 06 16:48 8204 Jul 12 03:16 8204 Jul 14 13:46 8204 Jul 14 14:39 8204 Jul 15 20:49 8204 Jul 17 20:19 8204 Jul 17 20:19 8204 Jul 22 08:58 8204 Jul 28 02:27	15° II 12'49 0° 55 2° 5549'00 4° 500'32 28° 554'33 0° A 2° A53'28 2° A38'35 30° R5 28° 513'57 28° 512'18 27° 515'03 25° 546'50 23° 501'48 21° 540'06	1°27'15 18°39'07 0°23'13 0°22'45 0.57374 AU
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	8203 Jun 19 08:24 8203 Jun 25 04:55 8203 Jun 27 15:53 8203 Jul 03 05:33 8203 Jul 14 13:55 8203 Jul 24 01:40 8203 Jul 25 22:17 8203 Jul 29 23:47 8203 Aug 03 14:34 8203 Aug 04 03:07 8203 Aug 11 20:35 8203 Aug 11 20:35 8203 Aug 16 17:55 8203 Aug 17:55 8203 Aug 18:12 8203 Sep 09 05:08 8203 Sep 21 04:30 8203 Sep 25 21:57	2°\$33'37 14°\$12'46 19°\$09'02 0°\$\Omega\$ 16°\$\Omega\$46'07 21°\$\Omega\$27'20 21°\$\Omega\$17'19 19°\$\Omega\$53'34 17°\$\Omega\$16'44 15°\$\Omega\$35'31 11°\$\Omega\$41'32 18°\$\Omega\$45'42 0°\$\Omega\$	0°56'33 19°26'01 -1°24'49 1°23'27 0.55698 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct	8204 Jun 01 00:27 8204 Jun 01 05:45 8204 Jun 09 00:07 8204 Jun 10 11:07 8204 Jun 11 01:57 8204 Jun 26 14:45 8204 Jun 27 19:22 8204 Jul 04 15:17 8204 Jul 06 16:48 8204 Jul 12 03:16 8204 Jul 14 13:46 8204 Jul 14 14:39 8204 Jul 15 20:49 8204 Jul 17 20:19 8204 Jul 17 20:19 8204 Jul 22 08:58 8204 Jul 28 02:27 8204 Aug 11 11:00	15° II 12'49 0° 55 2° 5549'00 4° 500'32 28° 554'33 0° A 2° A53'28 2° A38'35 30° R5 28° 513'57 28° 512'18 27° 515'03 25° 5646'50 23° 501'48 21° 540'06 29° 513'32	1°27'15 18°39'07 0°23'13 0°22'45 0.57374 AU
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	8203 Jun 19 08:24 8203 Jun 25 04:55 8203 Jun 27 15:53 8203 Jul 03 05:33 8203 Jul 14 13:55 8203 Jul 24 01:40 8203 Jul 25 22:17 8203 Jul 29 23:47 8203 Aug 03 14:34 8203 Aug 04 03:07 8203 Aug 11 20:35 8203 Aug 11 20:35 8203 Aug 16 17:55 8203 Aug 17:55 8203 Aug 18:12 8203 Sep 09 05:08 8203 Sep 21 04:30 8203 Sep 25 21:57	2°\$33'37 14°\$12'46 19°\$09'02 0°\$\Omega\$ 16°\$\Omega\$46'07 21°\$\Omega\$27'20 21°\$\Omega\$17'19 19°\$\Omega\$53'34 17°\$\Omega\$16'44 15°\$\Omega\$35'31 11°\$\Omega\$41'32 18°\$\Omega\$45'42 0°\$\Omega\$	0°56'33 19°26'01 -1°24'49 1°23'27 0.55698 AU 25°08'48	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct	8204 Jun 01 00:27 8204 Jun 01 05:45 8204 Jun 09 00:07 8204 Jun 10 11:07 8204 Jun 11 01:57 8204 Jun 26 14:45 8204 Jun 27 19:22 8204 Jul 04 15:17 8204 Jul 06 16:48 8204 Jul 12 03:16 8204 Jul 14 13:46 8204 Jul 14 14:39 8204 Jul 15 20:49 8204 Jul 17 20:19 8204 Jul 17 20:19 8204 Jul 22 08:58 8204 Jul 28 02:27 8204 Aug 11 11:00 8204 Aug 12 05:49	15° II 12'49 0°\$ 2°\$49'00 4°\$00'32 28°\$54'33 0°\$\lambda\$ 2°\$\lambda\$53'28 2°\$\lambda\$38'35 30°\$\lambda\$ 28°\$\lambda\$13'57 28°\$\lambda\$12'18 27°\$\lambda\$15'03 25°\$\lambda\$46'50 23°\$\lambda\$01'48 21°\$\lambda\$40'06 29°\$\lambda\$13'32 0°\$\lambda\$	1°27'15 18°39'07 0°23'13 0°22'45 0.57374 AU
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	8203 Jun 19 08:24 8203 Jun 25 04:55 8203 Jun 27 15:53 8203 Jul 03 05:33 8203 Jul 14 13:55 8203 Jul 24 01:40 8203 Jul 25 22:17 8203 Jul 29 23:47 8203 Aug 03 10:45 8203 Aug 03 10:45 8203 Aug 11 20:35 8203 Aug 16 17:55 8203 Aug 30 19:12 8203 Sep 09 05:08 8203 Sep 21 04:30 8203 Sep 26 06:35	2°\$33'37 14°\$12'46 19°\$09'02 0°\$\Omega\$ 16°\$\Omega\$46'07 21°\$\Omega\$27'20 21°\$\Omega\$17'19 19°\$\Omega\$53'34 17°\$\Omega\$16'44 15°\$\Omega\$2'58 12°\$\Omega\$35'31 11°\$\Omega\$45'42 0°\$\Omega\$20°\$\Omega\$19'49 0°\$\Omega\$45'54	0°56'33 19°26'01 -1°24'49 1°23'27 0.55698 AU 25°08'48	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el	8204 Jun 01 00:27 8204 Jun 01 05:45 8204 Jun 09 00:07 8204 Jun 10 11:07 8204 Jun 11 01:57 8204 Jun 26 14:45 8204 Jun 27 19:22 8204 Jul 04 15:17 8204 Jul 06 16:48 8204 Jul 12 03:16 8204 Jul 14 13:46 8204 Jul 14 14:39 8204 Jul 15 20:49 8204 Jul 17 20:19 8204 Jul 22 08:58 8204 Jul 28 02:27 8204 Aug 11 11:00 8204 Aug 12 05:49 8204 Sep 01 22:50	15° II 12'49 0°5 2°549'00 4°500'32 28°554'33 0° N 2° N53'28 2° N38'35 30° R5 28°513'57 28°512'18 27°515'03 25°546'50 23°501'48 21°540'06 29°513'32 0° N 0° III	1°27'15 18°39'07 0°23'13 0°22'45 0.57374 AU
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	8203 Jun 19 08:24 8203 Jun 25 04:55 8203 Jun 27 15:53 8203 Jul 03 05:33 8203 Jul 14 13:55 8203 Jul 24 01:40 8203 Jul 25 22:17 8203 Jul 29 23:47 8203 Aug 03 10:45 8203 Aug 03 10:45 8203 Aug 11 20:35 8203 Aug 16 17:55 8203 Aug 30 19:12 8203 Sep 09 05:08 8203 Sep 21 04:30 8203 Sep 25 21:57 8203 Sep 26 06:35	2°\$33'37 14°\$12'46 19°\$09'02 0°\$\Omega\$ 16°\$\Omega\$46'07 21°\$\Omega\$27'20 21°\$\Omega\$17'19 19°\$\Omega\$53'34 17°\$\Omega\$16'44 15°\$\Omega\$2'58 12°\$\Omega\$35'31 11°\$\Omega\$45'42 0°\$\Omega\$20°\$\Omega\$19'49 0°\$\Omega\$45'54	0°56'33 19°26'01 -1°24'49 1°23'27 0.55698 AU 25°08'48	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el	8204 Jun 01 00:27 8204 Jun 01 05:45 8204 Jun 09 00:07 8204 Jun 10 11:07 8204 Jun 11 01:57 8204 Jun 26 14:45 8204 Jun 27 19:22 8204 Jul 04 15:17 8204 Jul 06 16:48 8204 Jul 12 03:16 8204 Jul 14 13:46 8204 Jul 14 14:39 8204 Jul 15 20:49 8204 Jul 17 20:19 8204 Jul 22 08:58 8204 Jul 28 02:27 8204 Aug 11 11:00 8204 Aug 12 05:49 8204 Sep 01 22:50 8204 Sep 07 01:28	15° II 12'49 0° 59 2° 5949'00 4° 5900'32 28° 554'33 0° N 2° N53'28 2° N38'35 30° R5 28° 513'57 28° 512'18 27° 515'03 25° 546'50 23° 501'48 21° 540'06 29° 513'32 0° N 0° ID 9° ID 58'11	1°27'15 18°39'07 0°23'13 0°22'45 0.57374 AU
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	8203 Jun 19 08:24 8203 Jun 25 04:55 8203 Jun 27 15:53 8203 Jul 03 05:33 8203 Jul 14 13:55 8203 Jul 24 01:40 8203 Jul 25 22:17 8203 Jul 29 23:47 8203 Aug 03 14:34 8203 Aug 03 10:45 8203 Aug 06 03:07 8203 Aug 11 20:35 8203 Aug 16 17:55 8203 Aug 30 19:12 8203 Sep 09 05:08 8203 Sep 21 04:30 8203 Sep 25 21:57 8203 Sep 26 06:35 8203 Oct 03 03:29 8203 Oct 03 01:58	2°\$33'37 14°\$12'46 19°\$09'02 0°\$\Omega\$ 16°\$\Omega\$46'07 21°\$\Omega\$27'20 21°\$\Omega\$17'19 19°\$\Omega\$3'34 17°\$\Omega\$16'44 15°\$\Omega\$32'58 12°\$\Omega\$35'31 11°\$\Omega\$41'32 18°\$\Omega\$45'42 0°\$\Omega\$0 20°\$\Omega\$19'49 0°\$\Omega\$45'54 15°\$\Omega\$45'54	0°56'33 19°26'01 -1°24'49 1°23'27 0.55698 AU 25°08'48 1°35'05 1°35'00	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el	8204 Jun 01 00:27 8204 Jun 01 05:45 8204 Jun 09 00:07 8204 Jun 10 11:07 8204 Jun 11 01:57 8204 Jun 26 14:45 8204 Jun 27 19:22 8204 Jul 04 15:17 8204 Jul 12 03:16 8204 Jul 12 03:16 8204 Jul 14 13:46 8204 Jul 14 14:39 8204 Jul 15 20:49 8204 Jul 17 20:19 8204 Jul 17 20:19 8204 Jul 28 02:27 8204 Aug 11 11:00 8204 Aug 12 05:49 8204 Sep 01 22:50 8204 Sep 07 01:28 8204 Sep 09 16:49	15° II 12'49 0° 99 2° 9949'00 4° 900'32 28° 9554'33 0° II 2° II 3'57 28° 99 13'57 28° 99 15'03 25° 9946'50 23° 9901'48 21° 9940'06 29° 9913'32 0° II 0° III 15° III 28'09	1°27'15 18°39'07 0°23'13 0°22'45 0.57374 AU
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	8203 Jun 19 08:24 8203 Jun 25 04:55 8203 Jun 27 15:53 8203 Jul 03 05:33 8203 Jul 14 13:55 8203 Jul 24 01:40 8203 Jul 25 22:17 8203 Jul 29 23:47 8203 Aug 03 14:34 8203 Aug 03 10:45 8203 Aug 06 03:07 8203 Aug 11 20:35 8203 Aug 16 17:55 8203 Aug 30 19:12 8203 Sep 09 05:08 8203 Sep 21 04:30 8203 Sep 25 21:57 8203 Sep 26 06:35 8203 Oct 03 03:29 8203 Oct 03 01:58 8203 Oct 04 15:00	2°\$33'37 14°\$12'46 19°\$09'02 0°\$\Omega\$ 16°\$\Omega\$46'07 21°\$\Omega\$27'20 21°\$\Omega\$17'19 19°\$\Omega\$3'34 17°\$\Omega\$16'44 15°\$\Omega\$32'58 12°\$\Omega\$35'31 11°\$\Omega\$41'32 18°\$\Omega\$45'42 0°\$\Omega\$0°\$\Omega\$45'54 15°\$\Omega\$45'54 15°\$\Omega\$45'32 15°\$\Omega\$37'17 19°\$\Omega\$00'02	0°56'33 19°26'01 -1°24'49 1°23'27 0.55698 AU 25°08'48 1°35'05 1°35'00	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el	8204 Jun 01 00:27 8204 Jun 01 05:45 8204 Jun 09 00:07 8204 Jun 10 11:07 8204 Jun 11 01:57 8204 Jun 26 14:45 8204 Jun 27 19:22 8204 Jul 04 15:17 8204 Jul 12 03:16 8204 Jul 12 03:16 8204 Jul 14 13:46 8204 Jul 14 14:39 8204 Jul 15 20:49 8204 Jul 17 20:19 8204 Jul 17 20:19 8204 Jul 28 02:27 8204 Aug 11 11:00 8204 Aug 12 05:49 8204 Sep 01 22:50 8204 Sep 07 01:28 8204 Sep 09 16:49	15° II 12'49 0° 99 2° 9949'00 4° 900'32 28° 9554'33 0° II 2° II 3'57 28° 99 13'57 28° 99 15'03 25° 9946'50 23° 9901'48 21° 9940'06 29° 9913'32 0° II 0° III 15° III 28'09	1°27'15 18°39'07 0°23'13 0°22'45 0.57374 AU 26°37'04
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	8203 Jun 19 08:24 8203 Jun 25 04:55 8203 Jun 27 15:53 8203 Jul 03 05:33 8203 Jul 14 13:55 8203 Jul 24 01:40 8203 Jul 25 22:17 8203 Jul 29 23:47 8203 Aug 03 10:45 8203 Aug 03 10:45 8203 Aug 06 03:07 8203 Aug 11 20:35 8203 Aug 16 17:55 8203 Aug 30 19:12 8203 Aug 30 19:12 8203 Sep 09 05:08 8203 Sep 21 04:30 8203 Sep 25 21:57 8203 Sep 26 06:35 8203 Oct 03 03:29 8203 Oct 03 01:58 8203 Oct 04 15:00 8203 Oct 09 18:39	2°\$33'37 14°\$12'46 19°\$09'02 0°\$\A 16°\$\A6'07 21°\$\A27'20 21°\$\A17'19 19°\$\A53'34 17°\$\A10'34 17°\$\A16'44 15°\$\A32'58 12°\$\A35'31 11°\$\A41'32 18°\$\A45'42 0°\$\B\ 20°\$\B\\$19'49 0°\$\L 0°\$\L 15°\$\L 15°\$\L 45'54	0°56'33 19°26'01 -1°24'49 1°23'27 0.55698 AU 25°08'48 1°35'05 1°35'00	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set	8204 Jun 01 00:27 8204 Jun 01 05:45 8204 Jun 09 00:07 8204 Jun 10 11:07 8204 Jun 11 01:57 8204 Jun 26 14:45 8204 Jun 27 19:22 8204 Jul 04 15:17 8204 Jul 12 03:16 8204 Jul 14 13:46 8204 Jul 14 14:39 8204 Jul 15 20:49 8204 Jul 17 20:19 8204 Jul 22 08:58 8204 Jul 28 02:27 8204 Aug 11 11:00 8204 Aug 12 05:49 8204 Sep 07 01:28 8204 Sep 09 16:49 8204 Sep 16 08:22	15° II 12'49 0° 99 2° 9949'00 4° 900'32 28° 9554'33 0° A 2° A53'28 2° A38'35 30° R9 28° 912'18 27° 915'03 25° 9946'50 23° 901'48 21° 9940'06 29° 913'32 0° A 0° ID 9° ID 58'11 15° ID 28'09 0° A	1°27'15 18°39'07 0°23'13 0°22'45 0.57374 AU 26°37'04
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	8203 Jun 19 08:24 8203 Jun 25 04:55 8203 Jun 27 15:53 8203 Jul 03 05:33 8203 Jul 14 13:55 8203 Jul 24 01:40 8203 Jul 25 22:17 8203 Jul 29 23:47 8203 Aug 03 10:45 8203 Aug 03 10:45 8203 Aug 06 03:07 8203 Aug 11 20:35 8203 Aug 16 17:55 8203 Aug 16 17:55 8203 Aug 30 19:12 8203 Sep 09 05:08 8203 Sep 21 04:30 8203 Sep 25 21:57 8203 Sep 26 06:35 8203 Oct 03 03:29 8203 Oct 03 01:58 8203 Oct 04 15:00 8203 Oct 09 18:39 8203 Oct 10 07:20	2°\$33'37 14°\$12'46 19°\$09'02 0°\$\Omega\$ 16°\$\Omega\$46'07 21°\$\Omega\$27'20 21°\$\Omega\$17'19 19°\$\Omega\$3'34 17°\$\Omega\$10'34 17°\$\Omega\$16'44 15°\$\Omega\$35'31 11°\$\Omega\$41'32 18°\$\Omega\$45'42 0°\$\Omega\$20'\$\Omega\$19'49 0°\$\Omega\$45'54 15°\$\Omega\$37'17 19°\$\Omega\$00'02 0°\$\Omega\$1"\Omega\$10'32	0°56'33 19°26'01 -1°24'49 1°23'27 0.55698 AU 25°08'48 1°35'05 1°35'00	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set	8204 Jun 01 00:27 8204 Jun 09 00:07 8204 Jun 10 11:07 8204 Jun 11 01:57 8204 Jun 26 14:45 8204 Jun 27 19:22 8204 Jul 04 15:17 8204 Jul 06 16:48 8204 Jul 12 03:16 8204 Jul 14 13:46 8204 Jul 15 20:49 8204 Jul 17 20:19 8204 Jul 17 20:19 8204 Jul 22 08:58 8204 Jul 28 02:27 8204 Aug 11 11:00 8204 Aug 12 05:49 8204 Sep 01 22:50 8204 Sep 09 16:49 8204 Sep 16 08:22	15° II 12'49 0° 9 2° 9349'00 4° 900'32 28° 954'33 0° II 2° II 5'328 2° II 5'03 25° 9346'50 23° 901'48 21° 940'06 29° 913'32 0° II 15° II 28'09	1°27'15 18°39'07 0°23'13 0°22'45 0.57374 AU 26°37'04
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	8203 Jun 19 08:24 8203 Jun 25 04:55 8203 Jun 27 15:53 8203 Jul 03 05:33 8203 Jul 14 13:55 8203 Jul 24 01:40 8203 Jul 25 22:17 8203 Jul 29 23:47 8203 Aug 03 10:45 8203 Aug 06 03:07 8203 Aug 11 20:35 8203 Aug 16 17:55 8203 Aug 16 17:55 8203 Aug 30 19:12 8203 Sep 09 05:08 8203 Sep 21 04:30 8203 Sep 25 21:57 8203 Sep 26 06:35 8203 Oct 03 03:29 8203 Oct 03 01:58 8203 Oct 04 15:00 8203 Oct 09 18:39 8203 Oct 10 07:20 8203 Oct 25 22:36	2°\$33'37 14°\$12'46 19°\$09'02 0°\$\Omega\$ 16°\$\Omega\$46'07 21°\$\Omega\$27'20 21°\$\Omega\$17'19 19°\$\Omega\$3'34 17°\$\Omega\$16'44 15°\$\Omega\$32'58 12°\$\Omega\$35'31 11°\$\Omega\$45'54 20°\$\Omega\$20'\Omega\$45'54 15°\$\Omega\$45'54 15°\$\Omega\$37'17 19°\$\Omega\$00'02 0°\$\Omega\$1"\Omega\$22 29°\$\Omega\$30'20	0°56'33 19°26'01 -1°24'49 1°23'27 0.55698 AU 25°08'48 1°35'05 1°35'00 1.32350 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set	8204 Jun 01 00:27 8204 Jun 01 05:45 8204 Jun 09 00:07 8204 Jun 10 11:07 8204 Jun 11 01:57 8204 Jun 26 14:45 8204 Jun 27 19:22 8204 Jul 04 15:17 8204 Jul 12 03:16 8204 Jul 14 13:46 8204 Jul 14 13:46 8204 Jul 15 20:49 8204 Jul 17 20:19 8204 Jul 17 20:19 8204 Jul 28 02:27 8204 Aug 11 11:00 8204 Aug 12 05:49 8204 Sep 01 22:50 8204 Sep 09 16:49 8204 Sep 16 08:22 8204 Sep 16 15:01 8204 Sep 16 12:56 8204 Sep 16 23:47	15° II 12'49 0° 99 2° 9949'00 4° 900'32 28° 9554'33 0° A 2° A53'28 2° A38'35 30° R9 28° 912'18 27° 915'03 25° 9946'50 23° 901'48 21° 940'06 29° 913'32 0° A 0° ID 9° ID 58'11 15° ID 28'09 0° 9 0° 925'17	1°27'15 18°39'07 0°23'13 0°22'45 0.57374 AU 26°37'04 1°23'50 1°23'34
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	8203 Jun 19 08:24 8203 Jun 25 04:55 8203 Jun 27 15:53 8203 Jul 03 05:33 8203 Jul 14 13:55 8203 Jul 24 01:40 8203 Jul 25 22:17 8203 Jul 29 23:47 8203 Aug 03 14:34 8203 Aug 06 03:07 8203 Aug 11 20:35 8203 Aug 16 17:55 8203 Aug 16 17:55 8203 Aug 30 19:12 8203 Sep 09 05:08 8203 Sep 21 04:30 8203 Sep 25 21:57 8203 Sep 26 06:35 8203 Oct 03 03:29 8203 Oct 03 01:58 8203 Oct 04 15:00 8203 Oct 09 18:39 8203 Oct 10 07:20 8203 Oct 25 22:36 8203 Oct 26 06:11	2°\$33'37 14°\$12'46 19°\$09'02 0°\$\Omega\$ 16°\$\Omega\$46'07 21°\$\Omega\$27'20 21°\$\Omega\$17'19 19°\$\Omega\$53'34 17°\$\Omega\$16'44 15°\$\Omega\$35'31 11°\$\Omega\$41'32 18°\$\Omega\$45'42 0°\$\Omega\$20"\$\Omega\$17'17 19°\$\Omega\$37'17 19°\$\Omega\$00'02 0°\$\Omega\$1"\Omega\$10'32 29°\$\Omega\$30'20 0°\$\omega\$7	0°56'33 19°26'01 -1°24'49 1°23'27 0.55698 AU 25°08'48 1°35'05 1°35'00 1.32350 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set	8204 Jun 01 00:27 8204 Jun 01 05:45 8204 Jun 09 00:07 8204 Jun 10 11:07 8204 Jun 11 01:57 8204 Jun 26 14:45 8204 Jun 27 19:22 8204 Jul 04 15:17 8204 Jul 12 03:16 8204 Jul 14 13:46 8204 Jul 14 14:39 8204 Jul 15 20:49 8204 Jul 17 20:19 8204 Jul 22 08:58 8204 Jul 28 02:27 8204 Aug 11 11:00 8204 Aug 12 05:49 8204 Sep 01 22:50 8204 Sep 01 16:49 8204 Sep 16 08:22 8204 Sep 16 12:56 8204 Sep 16 23:47 8204 Sep 23 11:50	15° II 12'49 0° 99 2° 9949'00 4° 900'32 28° 9554'33 0° A 2° A 553'28 2° A 38'35 30° R 99 28° 9913'57 28° 9912'18 27° 9915'03 25° 9946'50 23° 901'48 21° 9940'06 29° 9913'32 0° A 0° ID 9° ID 58'11 15° ID 28'09 0° 99 0° 99554 0° 99554 0° 99554 0° 99554 0° 99554 0° 99554 0° 99554 0° 99554 0° 99554	1°27'15 18°39'07 0°23'13 0°22'45 0.57374 AU 26°37'04 1°23'50 1°23'34
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	8203 Jun 19 08:24 8203 Jun 25 04:55 8203 Jun 27 15:53 8203 Jul 03 05:33 8203 Jul 14 13:55 8203 Jul 24 01:40 8203 Jul 25 22:17 8203 Jul 29 23:47 8203 Aug 03 10:45 8203 Aug 06 03:07 8203 Aug 11 20:35 8203 Aug 11 20:35 8203 Aug 16 17:55 8203 Aug 16 17:55 8203 Aug 17:55 8203 Aug 18 17:55 8203 Aug 18 18:30 8203 Sep 29 05:08 8203 Sep 21 04:30 8203 Sep 25 21:57 8203 Sep 26 06:35 8203 Oct 03 03:29 8203 Oct 03 01:58 8203 Oct 03 01:58 8203 Oct 04 15:00 8203 Oct 09 18:39 8203 Oct 10 07:20 8203 Oct 26 06:11 8203 Nov 12 01:09 8203 Nov 25 19:45	2°\$33'37 14°\$12'46 19°\$09'02 0°\$\alpha\$ 16°\$\alpha 46'07 21°\$\alpha 27'20 21°\$\alpha 17'19 19°\$\alpha 53'34 17°\$\alpha 16'44 15°\$\alpha 32'58 12°\$\alpha 35'31 11°\$\alpha 41'32 18°\$\alpha 45'42 0°\$\mathred{m}\$ 20°\$\mathred{m}\$ 19'49 0°\$\mathred{\Omega}\$ 0°\$\mathred{\Omega}\$ 45'54 15°\$\mathred{\Omega}\$ 37'17 19°\$\mathred{\Omega}\$ 00'02 0°\$\mathred{m}\$ 1°\$\mathred{m}\$ 30'20 0°\$\mathred{\sigma}\$ 21°\$\mathred{\sigma}\$ 22'49 28°\$\mathred{\sigma}\$ 39'20	0°56'33 19°26'01 -1°24'49 1°23'27 0.55698 AU 25°08'48 1°35'05 1°35'00 1.32350 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	8204 Jun 01 00:27 8204 Jun 01 05:45 8204 Jun 09 00:07 8204 Jun 10 11:07 8204 Jun 11 01:57 8204 Jun 26 14:45 8204 Jun 27 19:22 8204 Jul 04 15:17 8204 Jul 12 03:16 8204 Jul 14 13:46 8204 Jul 14 13:46 8204 Jul 15 20:49 8204 Jul 17 20:19 8204 Jul 17 20:19 8204 Jul 22 08:58 8204 Jul 22 08:58 8204 Jul 22 08:58 8204 Jul 25:49 8204 Aug 11 11:00 8204 Aug 12 05:49 8204 Sep 01 22:50 8204 Sep 01 16:49 8204 Sep 16 08:22 8204 Sep 16 12:56 8204 Sep 16 12:56 8204 Sep 16 23:47 8204 Sep 23 11:50 8204 Sep 30 17:25	15° I 12'49 0° 9 2° 949'00 4° 900'32 28° 954'33 0° A 2° A 53'28 2° A 38'35 30° R 9 28° 913'57 28° 912'18 27° 915'03 25° 946'50 23° 901'48 21° 940'06 29° 913'32 0° A 0° ID 9° ID 58'11 15° ID 28'09 0° 9 0° 936'54 0° 925'17 1° 925'30 15° 934'27 0° IL	1°27'15 18°39'07 0°23'13 0°22'45 0.57374 AU 26°37'04 1°23'50 1°23'34
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	8203 Jun 19 08:24 8203 Jun 25 04:55 8203 Jun 27 15:53 8203 Jul 03 05:33 8203 Jul 14 13:55 8203 Jul 24 01:40 8203 Jul 25 22:17 8203 Jul 29 23:47 8203 Aug 03 14:34 8203 Aug 03 10:45 8203 Aug 06 03:07 8203 Aug 11 20:35 8203 Aug 16 17:55 8203 Aug 16 17:55 8203 Aug 17:55 8203 Aug 18:12 8203 Sep 09 05:08 8203 Sep 21 04:30 8203 Sep 25 21:57 8203 Sep 26 06:35 8203 Oct 03 03:29 8203 Oct 03 01:58 8203 Oct 04 15:00 8203 Oct 09 18:39 8203 Oct 10 07:20 8203 Oct 26 06:11 8203 Nov 12 01:09	2°\$33'37 14°\$12'46 19°\$09'02 0°\$\Omega\$ 16°\$\Omega\$46'07 21°\$\Omega\$27'20 21°\$\Omega\$17'19 19°\$\Omega\$53'34 17°\$\Omega\$16'44 15°\$\Omega\$35'31 11°\$\Omega\$41'32 18°\$\Omega\$45'42 0°\$\Omega\$20"\$\Omega\$17'17 19°\$\Delta\$00'02 0°\$\Omega\$17'17 19°\$\Delta\$00'02 0°\$\Omega\$229°\$\Omega\$32'29 21°\$\omega\$22'49	0°56'33 19°26'01 -1°24'49 1°23'27 0.55698 AU 25°08'48 1°35'05 1°35'00 1.32350 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set	8204 Jun 01 00:27 8204 Jun 01 05:45 8204 Jun 09 00:07 8204 Jun 10 11:07 8204 Jun 11 01:57 8204 Jun 26 14:45 8204 Jun 27 19:22 8204 Jul 04 15:17 8204 Jul 12 03:16 8204 Jul 14 13:46 8204 Jul 14 13:46 8204 Jul 15 20:49 8204 Jul 17 20:19 8204 Jul 22 08:58 8204 Jul 22 08:58 8204 Jul 22 08:58 8204 Jul 22 08:58 8204 Jul 25:49 8204 Aug 11 11:00 8204 Aug 12 05:49 8204 Sep 01 01:28 8204 Sep 01 16:49 8204 Sep 16 08:22 8204 Sep 16 12:56 8204 Sep 16 12:56 8204 Sep 16 12:56 8204 Sep 16 23:47 8204 Sep 16 23:47 8204 Sep 30 17:25 8204 Sep 30 17:25 8204 Sep 30 17:25	15° II 12'49 0° 99 2° 9949'00 4° 900'32 28° 9554'33 0° A 2° A 553'28 2° A 38'35 30° R 99 28° 9913'57 28° 9912'18 27° 9915'03 25° 9946'50 23° 901'48 21° 9940'06 29° 9913'32 0° A 0° ID 9° ID 58'11 15° ID 28'09 0° 99 0° 99554 0° 99554 0° 99554 0° 99554 0° 99554 0° 99554 0° 99554 0° 99554 0° 99554	1°27'15 18°39'07 0°23'13 0°22'45 0.57374 AU 26°37'04 1°23'50 1°23'34
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	8203 Jun 19 08:24 8203 Jun 25 04:55 8203 Jun 27 15:53 8203 Jul 03 05:33 8203 Jul 14 13:55 8203 Jul 24 01:40 8203 Jul 25 22:17 8203 Jul 29 23:47 8203 Aug 03 10:45 8203 Aug 03 10:45 8203 Aug 06 03:07 8203 Aug 11 20:35 8203 Aug 16 17:55 8203 Aug 16 17:55 8203 Aug 30 19:12 8203 Sep 09 05:08 8203 Sep 21 04:30 8203 Sep 25 21:57 8203 Sep 26 06:35 8203 Oct 03 03:29 8203 Oct 03 01:58 8203 Oct 03 01:58 8203 Oct 04 15:00 8203 Oct 09 18:39 8203 Oct 10 07:20 8203 Oct 26 06:11 8203 Nov 12 01:09 8203 Nov 25 19:45 8203 Dec 02 22:13 8203 Dec 06 14:34	2°\$33'37 14°\$12'46 19°\$09'02 0°\$\alpha\$ 16°\$\alpha 46'07 21°\$\alpha 27'20 21°\$\alpha 17'19 19°\$\alpha 53'34 17°\$\alpha 16'44 15°\$\alpha 32'58 12°\$\alpha 35'31 11°\$\alpha 41'32 18°\$\alpha 45'42 0°\$\mathred{m}\$ 20°\$\mathred{m}\$ 19'49 0°\$\mathred{\Omega}\$ 0°\$\mathred{\Omega}\$ 45'54 15°\$\mathred{\Omega}\$ 37'17 19°\$\mathred{\Omega}\$ 00'02 0°\$\mathred{m}\$ 1°\$\mathred{m}\$ 30'20 0°\$\mathred{\sigma}\$ 21°\$\mathred{\sigma}\$ 22'49 28°\$\mathred{\sigma}\$ 39'20 26°\$\mathred{\sigma}\$ 12'11	0°56'33 19°26'01 -1°24'49 1°23'27 0.55698 AU 25°08'48 1°35'05 1°35'00 1.32350 AU 27°27'46 0.62652 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	8204 Jun 01 00:27 8204 Jun 09 00:07 8204 Jun 10 11:07 8204 Jun 11 01:57 8204 Jun 26 14:45 8204 Jun 27 19:22 8204 Jul 04 15:17 8204 Jul 12 03:16 8204 Jul 14 13:46 8204 Jul 14 13:46 8204 Jul 15 20:49 8204 Jul 17 20:19 8204 Jul 22 08:58 8204 Jul 32 02:27 8204 Aug 11 11:00 8204 Aug 12 05:49 8204 Sep 01 22:50 8204 Sep 01 6:49 8204 Sep 16 08:22 8204 Sep 16 12:56 8204 Sep 16 23:47 8204 Sep 30 17:25 8204 Sep 30 17:25 8204 Oct 11 19:39 8204 Oct 20 16:24	15° I 12'49 0° 5 2° 549'00 4° 500'32 28° 554'33 0° N 2° N53'28 2° N38'35 30° R5 28° 513'57 28° 512'18 27° 515'03 25° 546'50 23° 501'48 21° 540'06 29° 513'32 0° N 0° M 9° M 58'11 15° M 28'09 0° • 0° • 0° \$\Pi\$ 36'54 0° \$\Pi\$ 25'30 15° \$\Pi\$ 34'27 0° M 18° M 31'22 0° \$\Pi\$	1°27'15 18°39'07 0°23'13 0°22'45 0.57374 AU 26°37'04 1°23'50 1°23'34 1.31776 AU
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	8203 Jun 19 08:24 8203 Jun 25 04:55 8203 Jun 27 15:53 8203 Jul 03 05:33 8203 Jul 14 13:55 8203 Jul 24 01:40 8203 Jul 25 22:17 8203 Jul 29 23:47 8203 Aug 03 10:45 8203 Aug 03 10:45 8203 Aug 06 03:07 8203 Aug 11 20:35 8203 Aug 16 17:55 8203 Aug 16 17:55 8203 Aug 30 19:12 8203 Sep 09 05:08 8203 Sep 21 04:30 8203 Sep 25 21:57 8203 Sep 26 06:35 8203 Oct 03 03:29 8203 Oct 03 01:58 8203 Oct 03 01:58 8203 Oct 04 15:00 8203 Oct 09 18:39 8203 Oct 10 07:20 8203 Oct 25 22:36 8203 Oct 26 06:11 8203 Nov 12 01:09 8203 Nov 25 19:45 8203 Dec 02 22:13	2°\$33'37 14°\$12'46 19°\$09'02 0°\$\alpha\$ 16°\$\alpha 46'07 21°\$\alpha 27'20 21°\$\alpha 17'19 19°\$\alpha 53'34 17°\$\alpha 16'44 15°\$\alpha 32'58 12°\$\alpha 35'31 11°\$\alpha 45'42 0°\$\mathred{m}\$ 20°\$\mathred{m}\$ 19'49 0°\$\mathred{\Omega}\$ 0°\$\mathred{\Omega}\$ 45'54 15°\$\mathred{\Omega}\$ 37'17 19°\$\mathred{\Omega}\$ 00'02 0°\$\mathred{m}\$ 1°\$\mathred{m}\$ 30'20 0°\$\mathred{\sigma}\$ 21°\$\mathred{\sigma}\$ 22'49 28°\$\mathred{\sigma}\$ 39'20 26°\$\mathred{\sigma}\$ 12'35	0°56'33 19°26'01 -1°24'49 1°23'27 0.55698 AU 25°08'48 1°35'05 1°35'00 1.32350 AU 27°27'46 0.62652 AU -2°49'22	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	8204 Jun 01 00:27 8204 Jun 01 05:45 8204 Jun 09 00:07 8204 Jun 10 11:07 8204 Jun 11 01:57 8204 Jun 26 14:45 8204 Jun 27 19:22 8204 Jul 04 15:17 8204 Jul 12 03:16 8204 Jul 14 13:46 8204 Jul 14 13:46 8204 Jul 15 20:49 8204 Jul 17 20:19 8204 Jul 22 08:58 8204 Jul 22 08:58 8204 Jul 22 08:58 8204 Jul 22 08:58 8204 Jul 25:49 8204 Aug 11 11:00 8204 Aug 12 05:49 8204 Sep 01 01:28 8204 Sep 01 16:49 8204 Sep 16 08:22 8204 Sep 16 12:56 8204 Sep 16 12:56 8204 Sep 16 12:56 8204 Sep 16 23:47 8204 Sep 16 23:47 8204 Sep 30 17:25 8204 Sep 30 17:25 8204 Sep 30 17:25	15° I 12'49 0° 9 2° 949'00 4° 900'32 28° 954'33 0° N 2° N53'28 2° N38'35 30° R9 28° 913'57 28° 912'18 27° 915'03 25° 946'50 23° 901'48 21° 940'06 29° 913'32 0° N 9° IN 58'11 15° IN 28'09 0° 9 0° 936'54 0° 925'17 1° 925'30 15° 934'27 0° IL 18° IL 31'22	1°27'15 18°39'07 0°23'13 0°22'45 0.57374 AU 26°37'04 1°23'50 1°23'34 1.31776 AU

evening set	8204 Nov 14 03:14	8° ∡ 745'00		min. Earth dist.	8205 Oct 30 17:21	18°M,02'19	0.58539 AU
min. Earth dist.	8204 Nov 17 03:14 8204 Nov 17 21:03	6° ₹ 04'34	0.60623 AU	inferior conj	8205 Nov 02 20:50	15°M44'34	
inferior conj	8204 Nov 21 00:38	3°×725'49		minimum elong	8205 Nov 03 03:30	15°M32'19	
minimum elong	8204 Nov 21 07:42	3° ₹ 10'55		morning rise	8205 Nov 10 21:24	11°ML18'29	1 33 13
viong	8204 Nov 25 13:45	30°RM	3 00 .0	direct	8205 Nov 13 04:25	11°ML01'11	
morning rise	8204 Nov 28 14:33	28°M37'19		asc. node	8205 Nov 20 22:01	14°M31'59	
direct	8204 Nov 30 19:29	28°M18'10		morning max el	8205 Nov 21 10:37	15°M01'29	18°34'33
asc. node	8204 Dec 04 01:00	29°ML01'06		morning mun vi	8205 Dec 01 19:40	0° ∡ 7	10 3 . 33
	8204 Dec 05 18:49	0° ∡ ¹		morning set	8205 Dec 07 13:03	10° ₹ 147'35	
morning max el	8204 Dec 08 03:05	1° × 757'02	18°01'13				
morning set	8204 Dec 23 18:51	26° ₹ '40'31		superior conj	8205 Dec 16 08:52	27° х 42'00	1°05'36
	8204 Dec 25 13:55	0°る		minimum elong	8205 Dec 16 12:18	27° х 57'57	1°05'19
		• •			8205 Dec 17 14:37	0°ਰ	
superior conj	8205 Jan 02 19:00	14° る 54'57	0°36'30	max. Earth dist.	8205 Dec 23 17:26	10° පි 58'21	1.40059 AU
minimum elong	8205 Jan 02 21:46	15° る 07'10	0°36'15	desc. node	8205 Dec 25 15:46	14° る 18'12	
desc. node	8205 Jan 07 18:47	23° る 33'58		evening rise	8205 Dec 27 21:41	18° る 05'59	
max. Earth dist.	8205 Jan 10 09:34	27° る 57'53	1.42124 AU		8206 Jan 04 06:23	0° ≈	
	8205 Jan 11 15:04	0° ≈			8206 Jan 25 13:10	0°) €	
evening rise	8205 Jan 16 00:24	7°≈07'02		evening max el	8206 Jan 31 17:04	6°) 53′15	23°52'29
e vennig rise	8205 Jan 31 02:17	0°) €		retrograde	8206 Feb 11 16:05	13° ¥ 20′12	25 52 25
evening max el	8205 Feb 18 02:29	23°) €08'20	22°32'17	evening set	8206 Feb 16 21:11	11°) (2012	
retrograde	8205 Feb 27 22:39	28° H 58'27	3_ 1,	asc. node	8206 Feb 16 21:08	11°) (0)'04	
asc. node	8205 Mar 02 00:03	28°) 37'03		min. Earth dist.	8206 Feb 21 15:47	5°) 37′59	0.68230 AU
evening set	8205 Mar 04 15:35	27° H 02'36		inferior conj	8206 Feb 22 08:09	4° € 42′20	1°42'38
inferior conj	8205 Mar 04 13:55 8205 Mar 09 23:57	20° H 39'44	2°21'43	minimum elong	8206 Feb 22 06:07	4°)(49'16	1°41'59
minimum elong	8205 Mar 09 23:37 8205 Mar 09 21:41	20° X 47'36	2°21'05	minimum ciong	8206 Feb 26 03:06	4 / (49 10	1 41 39
min. Earth dist.	8205 Mar 09 19:13	20° X 56'12	0.68419 AU	morning rise	8206 Feb 27 15:02	28°≈38'55	
	8205 Mar 15 03:38	14°\(\dagger)30'19	0.08419 AU	morning rise direct		20 ≈30 33 27°≈05'37	
morning rise		14 X 30 19 12° X 34'34		direct	8206 Mar 03 16:33	2/ ≈ 033/ 0° \	
direct	8205 Mar 19 18:39		21051127	. ,	8206 Mar 09 21:38		20022154
morning max el	8205 Mar 28 21:27	17° ¥ 54′02	21°51'37	morning max el	8206 Mar 11 16:27	1°) (38'46	20°32'54
desc. node	8205 Apr 05 18:28	27° 升 11′27		desc. node	8206 Mar 23 15:25	16°) 46′19	
	8205 Apr 07 21:05	0° Υ		. ,	8206 Apr 01 15:38	0°Υ	
	8205 Apr 28 03:49	0° 8		morning set	8206 Apr 09 16:24	12°Υ16'18	1 42 42 5 4 7 7
morning set	8205 Apr 30 11:48	3° 8 42'38	1 41500 177	max. Earth dist.	8206 Apr 18 15:16	26° Y 25′26	1.43425 AU
max. Earth dist.	8205 May 06 08:35	13° 8 17'18	1.41532 AU		8206 Apr 20 20:12	0° 8	
superior conj	8205 May 14 01:16	26° 8 27'00	1053'51	superior conj	8206 Apr 25 02:56	7° 8 03'24	2°00'41
1 3	8205 May 14 01:10 8205 May 14 06:57	26° 8 51'56		minimum elong	•	7° 8 15'13	
minimum elong	•	0° Ⅱ	1 33 29	_	8206 Apr 25 05:46	28° 8 12'37	2 09 42
avanina riaa	8205 May 16 01:26			evening rise	8206 May 07 10:18	0°II	
evening rise	8205 May 24 18:43	15° I I53′29		1-	8206 May 08 10:45		
asc. node	8205 May 28 22:59	23° II 33'05		asc. node	8206 May 15 20:03	12° ∏ 44'58	10005121
	8205 Jun 01 15:01	0°95	10012124	evening max el	8206 May 24 12:01	24° ∏ 45'42	18°05'31
evening max el	8205 Jun 09 23:22	11°937'37	18°12'34	retrograde	8206 May 30 23:42	28° I 106'50	
retrograde	8205 Jun 16 23:40	15°909'38		evening set	8206 Jun 02 16:16	27° I I31'39	2040127
evening set	8205 Jun 19 08:46	14°945'54		inferior conj	8206 Jun 09 02:21	22° Ⅱ 26'23	2°40'27
inferior conj	8205 Jun 26 10:36	10°500'38	1°45'48	minimum elong	8206 Jun 09 05:10	22° Ⅱ 19'14	
minimum elong	8205 Jun 26 13:31	9°954'11	1°44'44	min. Earth dist.	8206 Jun 12 03:06	19° Ⅱ 23'18	0.61763 AU
min. Earth dist.	8205 Jun 29 19:39	7°503'29	0.59512 AU	morning rise	8206 Jun 15 16:02	16° Ⅲ 23'45	
desc. node	8205 Jul 02 17:53	4°951'16		desc. node	8206 Jun 19 14:56	14° Ⅱ 25'52	
morning rise	8205 Jul 03 15:15	4°9518'07		direct	8206 Jun 22 09:21	14° Ⅱ 02'16	
direct	8205 Jul 10 00:28	2° 5 24'39		morning max el	8206 Jul 06 13:47	22° Ⅱ 02'57	27°55'35
morning max el	8205 Jul 24 09:07	10°5016'02	27°35'04		8206 Jul 13 13:02	0°9	
	8205 Aug 08 15:29	$0^{\circ}\Omega$			8206 Aug 01 18:48	$0^{\circ}\Omega$	
morning set	8205 Aug 24 23:53	29° Ω 58′03		morning set	8206 Aug 09 01:54	14° Ω 10'37	
asc. node	8205 Aug 24 22:25	29° Ω 50′21		asc. node	8206 Aug 11 19:23	19° Ω 51'39	
	8205 Aug 25 00:15	0° т р		max. Earth dist.	8206 Aug 14 17:46	26° Ω 09'19	1.32021 AU
max. Earth dist.	8205 Aug 31 09:56	13° m 51'57	1.31666 AU				
	0005 0 01 05 15	1.50 *** 5 *** =	1007120	superior conj	8206 Aug 16 12:39	0° Mp 03'27	0°46'31
superior conj	8205 Sep 01 02:40	15° m 24'35	1°07'30	minimum elong	8206 Aug 16 10:45	29° £ 53′02	0°46'04
minimum elong	8205 Sep 01 00:25	15° My 12'09	1°07'06		8206 Aug 16 12:01	0° m	
evening rise	8205 Sep 07 20:41	0° £ 13'07		evening rise	8206 Aug 23 07:53	14° m 55'43	
	8205 Sep 07 18:13	0ಂ ರಾ			8206 Aug 30 18:46	0。 ⊽	
	8205 Sep 23 23:51	0°M₊		desc. node	8206 Sep 15 13:50	23° ≏ 35'18	
desc. node	8205 Sep 28 16:44	6°M39'50		evening max el	8206 Sep 17 18:47	25° ≏ 50'40	24°35'09
evening max el	8205 Oct 06 04:28	15°ML10'14	26°01'44		8206 Sep 22 23:34	0° M ₊	
retrograde	8205 Oct 20 02:47	22°M14'13		retrograde	8206 Oct 01 13:56	2°M46'47	
	0203 OCt 20 02.47			•			
evening set	8205 Oct 26 11:55	20°M37'17		evening set	8206 Oct 06 20:12	1°M45'10	

	9206 0-4 10 11.40	2005 0			9207 C 12 12:00	120 0 42142	
	8206 Oct 10 11:40	30° ₹ Ω	0.56651 477	retrograde	8207 Sep 12 13:00	12° Ω 42'42	
min. Earth dist.	8206 Oct 12 05:46		0.56651 AU	evening set	8207 Sep 16 07:02	12° Ω 11'52	
inferior conj	8206 Oct 14 20:53	27° Ω 16'55		min. Earth dist.	8207 Sep 23 14:32	8° ≏ 53'19	
minimum elong	8206 Oct 14 23:14	27° ≏ 13'10	5°31'38	inferior conj	8207 Sep 25 01:46	8° ჲ 02'37	-5°22'56
morning rise	8206 Oct 23 04:26	23° ≏ 13'02		minimum elong	8207 Sep 24 20:40	8° ഫ 09'58	5°22'21
direct	8206 Oct 25 18:37	22° ≏ 54'42		morning rise	8207 Oct 03 12:23	4° ₽ 13'22	
morning max el	8206 Nov 04 07:57	27° ≏ 25'56	19°29'52	direct	8207 Oct 06 13:55	3° ჲ 51′26	
	8206 Nov 06 17:53	0° M \cdot		morning max el	8207 Oct 17 16:41	9° ഫ 03'29	20°47'30
asc. node	8206 Nov 07 19:01	1°M16'52		asc. node	8207 Oct 25 16:01	19° ≙ 00'41	
morning set	8206 Nov 21 15:21	25° ™ 16′08			8207 Oct 31 23:20	0° M .	
C	8206 Nov 23 23:44	0° ∡ ¹		morning set	8207 Nov 05 22:55	9° ™ 58'13	
				C			
superior conj	8206 Nov 29 15:05	11° ∡ 15'32	1°25'35	superior conj	8207 Nov 13 09:07	25°M22'50	1°37'12
minimum elong	8206 Nov 29 17:49	11° ∡ *28′56	1°25'28	minimum elong	8207 Nov 13 10:36	25°M30'26	1°37'14
max. Earth dist.	8206 Dec 05 23:20	23°×19'42	1.37889 AU	mmmum viong	8207 Nov 15 15:46	0° √	1 0 / 1 .
evening rise	8206 Dec 09 16:44	0°る02'17	1.57007710	max. Earth dist.	8207 Nov 18 07:39	5° ∡ 16'07	1.35859 AU
evening rise	8206 Dec 09 16:13	0 302 17 0°る		evening rise	8207 Nov 22 06:52	12° × ⁷ 49'27	1.55657 AC
JJ.		0 3 4° 3 57'31		•		25° × 27'49	
desc. node	8206 Dec 12 12:47			desc. node	8207 Nov 29 09:49		
	8206 Dec 28 13:28	0° ≈	25000110		8207 Dec 02 03:17	0°ರ	
evening max el	8207 Jan 14 06:16	20°≈40'30	25°09'18		8207 Dec 23 14:02	0° ≈	
retrograde	8207 Jan 26 05:19	27° ≈ 36′04		evening max el	8207 Dec 27 19:19	4° ≈ 26'37	26°15'38
evening set	8207 Jan 31 23:13	25°≈13'01		retrograde	8208 Jan 09 13:41	11° ≈ 40′10	
asc. node	8207 Feb 03 18:14	22° ≈ 20'34		evening set	8208 Jan 15 19:58	9° ≈ 07'45	
min. Earth dist.	8207 Feb 05 10:15	20° ≈ 15'43	0.67650 AU	min. Earth dist.	8208 Jan 20 00:24	4° ≈ 45'03	0.66690 AU
inferior conj	8207 Feb 06 14:03	18° ≈ 45′04	0°55'20	inferior conj	8208 Jan 21 15:44	2° ≈ 44'32	0°00'22
minimum elong	8207 Feb 06 12:45	18° ≈ 49'18	0°54'56	minimum elong	8208 Jan 21 15:43	2° ≈ 44'35	0°00'30
morning rise	8207 Feb 12 02:35	12° ≈ 49'17		transit middle	8208 Jan 21 15:43	2° ≈ 44'35	0°00'30
direct	8207 Feb 15 15:36	11° ≈ 37'09		transit begin	8208 Jan 21 12:51	2° ≈ 53'24	
morning max el	8207 Feb 22 19:29	15° ≈ 35'30	19°27'38	transit end	8208 Jan 21 18:35	2° ≈ 35'46	
S	8207 Mar 05 23:12	0°) €		asc. node	8208 Jan 21 15:18	2° ≈ 45'51	
greatest brilliancy	8207 Mar 07 15:33	2° ¥ 28'37	-0.7m		8208 Jan 23 23:41	30°Rる	
desc. node	8207 Mar 10 12:22	6° ¥ 46'07	0.7111	morning rise	8208 Jan 27 12:12	26° ろ 58'22	
morning set	8207 Mar 19 14:34	20°) 39'45		direct	8208 Jan 30 14:14	26°る04'30	
morning set	8207 Mar 15 14:34 8207 Mar 25 15:12	20 γ (3) 43		morning max el	8208 Feb 06 05:44	20 3 0430	18°38'02
max. Earth dist.		10° Υ 17'57	1.44781 AU	morning max er		29 ⊙ 40 33	16 36 02
max. Earth dist.	8207 Apr 01 04:51	10-11/5/	1.44/81 AU	1 1	8208 Feb 06 13:29		
	0207 4 05 02 52	1.60000 5122	2000110	desc. node	8208 Feb 25 09:19	27°≈04'22	
superior conj	8207 Apr 05 03:52	16° Y 35'33		morning set	8208 Feb 27 06:21	0°) €01'38	
minimum elong	8207 Apr 05 00:10		2°09'06		8208 Feb 27 05:56	0° ∀	
	8207 Apr 13 10:18	0°8					
evening rise	8207 Apr 19 05:13	9° 8 36'13		superior conj	8208 Mar 14 11:23	25° ¥ 27'14	
	8207 May 01 17:10	Π °0		minimum elong	8208 Mar 14 02:11	24° ¥ 51'13	1°47'44
asc. node	8207 May 02 17:08	1° Ⅱ 28'17		max. Earth dist.	8208 Mar 13 22:39		1.45456 AU
evening max el	8207 May 08 01:15	8° Ⅱ 09'01	18°17'16		8208 Mar 17 08:58	0 ° Υ	
retrograde	8207 May 14 10:41	11° Ⅲ 33'47		evening rise	8208 Mar 30 00:40	20° Y ′01'42	
evening set	8207 May 17 10:21	10° Ⅱ 45'35			8208 Apr 05 06:29	0°B	
inferior conj	8207 May 23 08:46	5° Ⅱ 22'03	3°11'15	greatest brilliancy	8208 Apr 07 02:25	2° 8 54'20	-0.9m
minimum elong	8207 May 23 10:28	5° Ⅱ 17'13	3°10'54	asc. node	8208 Apr 18 14:13	19° 8 34'23	
min. Earth dist.	8207 May 25 19:55	2° ∏ 34'43	0.63855 AU	evening max el	8208 Apr 20 12:27	21° 8 41'36	18°47'00
	8207 May 28 09:11	30° ₹ 8		retrograde	8208 Apr 27 04:27	25° 8 22'47	
morning rise	8207 May 29 09:24	29° 8 08'33		evening set	8208 Apr 30 11:28	24° 8 20'35	
direct	8207 Jun 05 03:08	26° 8 28'21		inferior conj	8208 May 06 01:59	18° 8 40'33	3°23'11
desc. node	8207 Jun 06 11:58	26° 8 34'22		minimum elong	8208 May 06 02:19	18° 8 39'29	3°23'04
desc. node	8207 Jun 13 20:18	0°II		min. Earth dist.	8208 May 07 21:54	16° 8 24'31	0.65623 AU
morning max el	8207 Jun 18 22:48	4° ∏ 29'36	27038144	morning rise	8208 May 11 16:32	12° 8 22'48	0.03023710
morning max ci	8207 Jul 18 22:48 8207 Jul 08 03:56	0°95	27 38 44	direct	8208 May 18 04:33	9° 8 35'48	
. ,					•		
morning set	8207 Jul 23 20:29	27° © 58'49		desc. node	8208 May 23 09:00	11° 8 02'49	26040145
and the second	8207 Jul 24 20:45	0° N	1.000.10.177	morning max el	8208 May 31 09:20	17° 8 25'07	26°49'45
max. Earth dist.	8207 Jul 28 19:13	8° Ω 05'39	1.32843 AU		8208 Jun 10 21:18	0°Π	
asc. node	8207 Jul 29 16:23	9° Ω 57'17			8208 Jun 30 01:49	0°50	
		_		morning set	8208 Jul 06 04:34	11° © 14'15	
superior conj	8207 Jul 31 19:02	14° Ω 27′28	0°21'18	max. Earth dist.	8208 Jul 10 10:46	19° © 34'02	1.34148 AU
minimum elong	8207 Jul 31 18:01	14° Ω 22'00	0°20'58				
evening rise	8207 Aug 07 19:30	29° Ω 36′00		superior conj	8208 Jul 14 19:38	28° © 30'31	-0°07'28
	8207 Aug 08 00:01	0° m		minimum elong	8208 Jul 14 20:03	28° © 32'40	0°07'32
	8207 Aug 24 22:45	0∘ ⊽		behind sun begin	8208 Jul 14 14:57	28°506'08	
evening max el	8207 Aug 30 06:06	6° Ω 04'19	22°56'15	behind sun end	8208 Jul 15 01:09	28° © 59'15	
desc. node	8207 Sep 02 10:56	8° ≏ 50'37		asc. node	8208 Jul 15 13:23	0° Ω 03'12	
	т	/					

	9209 Jul 15 12:46	000		asa mada	9200 Jul 02 10:22	200605126	
	8208 Jul 15 12:46	0° Ω 14° Ω 08'10		asc. node	8209 Jul 02 10:23	20°505'36	
evening rise	8208 Jul 22 05:35			evening rise	8209 Jul 06 12:01	28°926'11	
	8208 Jul 30 06:56	0°M) 1.6°M>27/20	21921124		8209 Jul 07 06:28	0°Ω	20002120
evening max el	8208 Aug 10 23:33	16° Mp 27'28	21-21-34	evening max el	8209 Jul 24 05:28	27° Ω 28'00	20°02'28
desc. node	8208 Aug 19 08:02	21° m 53'36		. 1	8209 Jul 27 05:02	0°M) 2°m-27124	
retrograde	8208 Aug 23 02:39	22° Tp 28'13		retrograde	8209 Aug 03 16:32	2° My 37'34	
evening set	8208 Aug 25 13:34	22° m) 14'20	401.015.5	evening set	8209 Aug 05 14:02	2° m/28'09	
inferior conj	8208 Sep 03 19:12	18° Mp 16'42		desc. node	8209 Aug 06 05:08	2° m/21'02	
minimum elong	8208 Sep 03 09:42	18° Mp 30'02			8209 Aug 12 00:23	30°R€	
min. Earth dist.	8208 Sep 03 23:24	18° m 10'48	0.54687 AU	inferior conj	8209 Aug 14 15:00	28° Ω 28'54	
morning rise	8208 Sep 12 06:36	14° Mp 24'33		minimum elong	8209 Aug 14 08:02	28° Ω 39'20	
direct	8208 Sep 15 22:40	13° m 55'27		min. Earth dist.	8209 Aug 16 10:14	27° Ω 24'07	0.55069 AU
morning max el	8208 Sep 28 13:18	19° m 54'28	22°23'56	morning rise	8209 Aug 23 00:32	24° Ω 13'55	
	8208 Oct 06 21:41	0∘ ⊽		direct	8209 Aug 27 10:42	23° Ω 31'17	
asc. node	8208 Oct 11 13:00	7° ₽ 29'22			8209 Sep 09 20:32	0° m y	
morning set	8208 Oct 20 09:26	24° ≏ 46'40		morning max el	8209 Sep 10 02:33	0° m 14′03	24°09'37
	8208 Oct 22 20:26	0° M .		asc. node	8209 Sep 28 09:58	26° Mp 31'55	
					8209 Sep 30 05:00	0∘ ত	
superior conj	8208 Oct 27 11:17	9° ጤ 52'17	1°41'24	morning set	8209 Oct 04 21:08	9° £ 36'34	
minimum elong	8208 Oct 27 11:27	9° ™ 53'08	1°41'30	•			
max. Earth dist.	8208 Oct 30 22:55	17° M 09'41	1.34160 AU	superior conj	8209 Oct 11 18:49	24° £ 35'33	1°39'05
evening rise	8208 Nov 04 12:07	26° ™ 16'48		minimum elong	8209 Oct 11 17:50	24° ₽ 30'12	1°39'06
e vennig rise	8208 Nov 06 10:36	0° ⊼		max. Earth dist.	8209 Oct 13 22:44	29° ₽ 16'13	1.32887 AU
desc. node	8208 Nov 15 06:51	15° × 743'16		max. Earth dist.	8209 Oct 14 06:54	0°M	1.52007 110
dese. Hode	8208 Nov 24 12:19	0°る		evening rise	8209 Oct 19 04:49	10°M14'49	
avanina may al	8208 Dec 09 08:26	18° る 03'35	27904!12	evening rise	8209 Oct 19 04:49 8209 Oct 29 18:40	0° ∡ 7	
evening max el			27 04 13	daga mada			
retrograde	8208 Dec 22 16:19	25°る24'00		desc. node	8209 Nov 02 03:54	5° ∡ ³37'15	
evening set	8208 Dec 29 09:22	22° 3 47'40	0.65050.433		8209 Nov 20 11:37	0°る	0.500.5150
min. Earth dist.	8209 Jan 02 08:02	18°₹59'03	0.65372 AU	evening max el	8209 Nov 21 20:29	1° る 20'29	27°27'53
inferior conj	8209 Jan 04 10:58	16° る 35'09		retrograde	8209 Dec 05 12:22	8° る 39'10	
minimum elong	8209 Jan 04 12:47	16° පි 30'02	1°00'42	evening set	8209 Dec 12 12:52	6° ප 06'34	
asc. node	8209 Jan 07 12:22	13° る 20'52		min. Earth dist.	8209 Dec 16 06:59	2° る 49'46	0.63727 AU
morning rise	8209 Jan 10 17:28	11° る 00'58		inferior conj	8209 Dec 18 21:13	0° る 10'54	-2°09'07
direct	8209 Jan 13 10:22	10° る 21'36		minimum elong	8209 Dec 19 01:15	0° る 00'34	2°07'21
morning max el	8209 Jan 19 20:54	13° る 46'36	18°05'01		8209 Dec 19 01:29	30°₽ ⋌ ¹	
	8209 Jan 31 11:35	0° ≈		asc. node	8209 Dec 25 09:25	24° ₹ 57'55	
morning set	8209 Feb 07 03:16	10° ≈ 51′09		morning rise	8209 Dec 25 15:26	24° ₹ 51'45	
desc. node	8209 Feb 11 06:15	17° ≈ 35′05		direct	8209 Dec 28 01:30	24° ∡ ¹22'58	
	8209 Feb 18 23:34	0°) €		morning max el	8210 Jan 03 14:08	27° ∡ ¹46'18	17°49'11
					8210 Jan 05 14:37	0° ප	
superior conj	8209 Feb 21 18:32	4°) €25'18	-1°10'59	morning set	8210 Jan 20 03:26	23° ප 00'08	
minimum elong	8209 Feb 21 10:26	3° ¥ 53'18	1°09'55	•	8210 Jan 24 05:40	0° ≈	
max. Earth dist.	8209 Feb 24 18:03	9°) €06'44	1.45388 AU	desc. node	8210 Jan 29 03:11	8° ≈ 14'07	
evening rise	8209 Mar 09 22:53	29°) 39′07					
3	8209 Mar 10 04:16	0° Υ		superior conj	8210 Feb 01 19:05	14° ≈ 16′15	-0°26'24
greatest brilliancy	8209 Mar 23 00:40	19° Ƴ 40'30	-0.7m	minimum elong	8210 Feb 01 16:11	14° ≈ 04'24	0°25'51
greatest offinaley	8209 Mar 30 07:18	0°8	0.7111	max. Earth dist.	8210 Feb 07 12:41	23° ≈ 30'28	1.44596 AU
evening max el	8209 Apr 03 19:34	5° 8 18'50	19°33'35	max. Earth dist.	8210 Feb 11 15:28	0° ∺	1.11390710
asc. node	8209 Apr 05 11:17	6° 8 51'49	17 33 33	evening rise	8210 Feb 17 10:17	8° ¥ 57'43	
retrograde	8209 Apr 11 01:48	9° 8 27'32		evening rise	8210 Mar 03 10:22	0° Υ	
evening set	8209 Apr 14 16:54	8° 8 10'35		evening max el	8210 Mar 17 21:21	18° Υ 57'37	20°34'49
•	-	2° 8 15'43	2920110	asc. node	8210 Mar 23 08:22	23° Y 06'23	20 34 49
inferior conj	8209 Apr 20 02:39						
minimum elong	8209 Apr 20 01:48	2° 8 18'32		retrograde	8210 Mar 26 00:16	23°\(\gamma\)42'31	
min. Earth dist.	8209 Apr 21 07:34	_	0.66974 AU	evening set	8210 Mar 30 00:30	22°Υ10'22	
	8209 Apr 21 19:59	30° ₹ Υ		inferior conj	8210 Apr 04 08:06	16° Y ′02'29	3°05'26
morning rise	8209 Apr 25 10:22	25° Y ′57'54		minimum elong	8210 Apr 04 06:23	16° Y ′08′23	3°05'06
direct	8209 May 01 12:16	23° Y 15'45		min. Earth dist.	8210 Apr 04 23:02	15° Y 11'15	0.67880 AU
desc. node	8209 May 10 06:00	27° Y ′20′13		morning rise	8210 Apr 09 12:02	9° Ƴ 46'57	
	8209 May 13 04:14	0°8		direct	8210 Apr 15 01:07	7° Υ 18'53	
morning max el	8209 May 13 19:11	0° 8 37'22	25°37'15	morning max el	8210 Apr 26 04:06	13° Y 58′02	24°11'09
	8209 Jun 04 20:17	Π °0		desc. node	8210 Apr 27 02:57	14° Ƴ 57'06	
morning set	8209 Jun 18 22:10	23° Ⅱ 45'54			8210 May 09 04:30	0° 8	
	8209 Jun 22 06:50	0 \circ \odot			8210 May 28 17:12	Π °0	
max. Earth dist.	8209 Jun 22 15:18	0° 5 540'03	1.35917 AU	morning set	8210 May 31 20:03	5° Ⅱ 19′12	
				max. Earth dist.	8210 Jun 04 12:31	11° Ⅱ 48'46	1.38041 AU
superior conj	8209 Jun 28 11:47	12° © 05'38	-0°38'38				
minimum elong	8209 Jun 28 14:05	12° © 17'11		superior conj	8210 Jun 11 16:01	25° Ⅲ 03'19	-1°10'23
S				-			

minimum elong	8210 Jun 11 20:21	25° Ⅲ 24'04	1°09'50	superior conj	8211 May 25 04:13	7° Ⅱ 13'59	-1°39'42
	8210 Jun 14 05:30	0 \circ \odot		minimum elong	8211 May 25 09:57	7° Ⅱ 39'59	1°39'11
asc. node	8210 Jun 19 07:23	9° © 59'53		evening rise	8211 Jun 04 03:02	25° Ⅱ 48'49	
evening rise	8210 Jun 20 12:13	12° © 22'20		asc. node	8211 Jun 06 04:25	29° Ⅱ 41'59	
	8210 Jun 30 01:11	0 ° Ω			8211 Jun 06 08:15	0 \circ \odot	
evening max el	8210 Jul 07 00:08	9° Ω 12'24	19°03'29	evening max el	8211 Jun 20 04:43	21° 5 36'23	18°25'16
retrograde	8210 Jul 15 19:27	13° Ω 33'39		retrograde	8211 Jun 27 17:31	25° 5 22'11	
evening set	8210 Jul 17 17:43	13° Ω 21'58		evening set	8211 Jun 29 22:10	25° © 03'56	
desc. node	8210 Jul 24 02:13	10° Ω 28'23		inferior conj	8211 Jul 07 10:40	20° © 30'09	1°01'45
inferior conj	8210 Jul 26 02:06	9° Ω 08'05		minimum elong	8211 Jul 07 12:45	20° © 25'58	1°00'51
minimum elong	8210 Jul 26 00:32	9° Ω 10'46	0°36'03	desc. node	8211 Jul 10 23:17	17° © 40'55	
min. Earth dist.	8210 Jul 29 00:18	7° Ω 07'56	0.56342 AU	min. Earth dist.	8211 Jul 10 19:44	17°5947'41	0.58253 AU
morning rise	8210 Aug 03 04:14	4°Ω17'29		morning rise	8211 Jul 14 23:56	15°503'46	
direct	8210 Aug 08 10:33	3° Ω 12'40	25040112	direct	8211 Jul 21 00:41	13°529'00	2700 (102
morning max el	8210 Aug 22 15:38	10° Ω 29'44	25°49'13	morning max el	8211 Aug 04 10:08	21°9510'46	27°06'03
1-	8210 Sep 06 12:28	0°M)			8211 Aug 12 02:18	0° N	
asc. node	8210 Sep 15 06:55	15° Mp 58'59			8211 Aug 30 07:49	0° M) 5° M) 42145	
morning set	8210 Sep 19 08:22	24°Mp22'41 0° ₽		asc. node	8211 Sep 02 03:53 8211 Sep 03 17:30	5° Mp 43'45	
	8210 Sep 21 22:51	0 ==		morning set	8211 Sep 03 17.30	9° m)00'17	
superior conj	8210 Sep 26 05:26	9° £ 25'16		superior conj	8211 Sep 10 17:15	24° Mp 15'22	1°17'30
minimum elong	8210 Sep 26 03:38	9° ≙ 15'18	1°30'48	minimum elong	8211 Sep 10 15:02	24° Mp 03'04	1°17'10
max. Earth dist.	8210 Sep 27 05:18	11° ≏ 36'50	1.32057 AU	max. Earth dist.	8211 Sep 10 15:17	24° m 04'31	1.31678 AU
evening rise	8210 Oct 03 05:46	24° △ 34'18			8211 Sep 13 07:27	0∘ ⊽	
	8210 Oct 05 21:30	0° M		evening rise	8211 Sep 17 12:24	9° Ω 07'48	
desc. node	8210 Oct 20 01:00	25° ™ 00'47			8211 Sep 28 05:58	0°M,	
	8210 Oct 23 10:14	0° √	25020146	desc. node	8211 Oct 06 22:06	13°M41'26	2 < 0.2 01 4 5
evening max el	8210 Nov 04 05:06	14° ₹ 03'52	27°20'46	evening max el	8211 Oct 17 07:24	26°M01'03	26°39'47
retrograde	8210 Nov 18 00:59	21° х 17'02			8211 Oct 22 05:25	0° ⊼ ¹	
evening set	8210 Nov 25 03:13	18° 🗷 57'31	0.61010.411	retrograde	8211 Oct 31 05:16	3° × 708'46	
min. Earth dist.	8210 Nov 28 19:31	16° ₹ 07'01	0.61810 AU	evening set	8211 Nov 07 00:11	1° ∡ 13'07	
inferior conj	8210 Dec 01 19:25	13°×724'15		in Forth dist	8211 Nov 08 23:30	30°RM	0.50721 ATT
minimum elong	8210 Dec 02 01:38	13° х 10′08 8° х 23′38	3-1041	min. Earth dist.	8211 Nov 10 21:12	28°M37'27 26°M05'24	
morning rise direct	8210 Dec 09 02:14 8210 Dec 11 08:12	8° ₹ '23 38		inferior conj minimum elong	8211 Nov 14 02:05 8211 Nov 14 09:22	25°M50'57	
asc. node	8210 Dec 11 08:12 8210 Dec 12 06:27	8°×705'39		morning rise	8211 Nov 14 09.22 8211 Nov 21 20:55	21°M26'34	4 23 01
morning max el	8210 Dec 18 06:24	11° × ⁷ 32'14	17°51'24	direct	8211 Nov 24 02:15	21°M08'32	
morning max cr	8210 Dec 30 14:21	0°る	17 3124	asc. node	8211 Nov 29 03:28	22°M47'06	
morning set	8210 Dec 30 14:21 8211 Jan 03 00:30	6°る08'40		morning max el	8211 Dec 01 18:14	24°M54'58	18°12'55
morning set	0211 3411 03 00.30	0 00040		morning max er	8211 Dec 05 23:46	0° ⊼	10 12 33
superior conj	8211 Jan 13 21:09	25° る 21'17	0°15'38	morning set	8211 Dec 17 12:21	19° ∡ 58'05	
minimum elong	8211 Jan 13 22:34	25° る 27'20	0°15'35	8	8211 Dec 22 20:16	0°ਰ	
behind sun begin	8211 Jan 13 20:34	25° ♂ 18'44					
behind sun end	8211 Jan 14 00:34	25° る 35'55		superior conj	8211 Dec 26 23:21	7° る 35'09	0°49'58
desc. node	8211 Jan 16 00:08	28° る 58'07		minimum elong	8211 Dec 27 02:37	7° る 49'55	0°49'41
	8211 Jan 16 14:49	0° ≈		desc. node	8212 Jan 02 21:07	19° る 43'07	
max. Earth dist.	8211 Jan 21 04:12	7° ≈ 32'49	1.43167 AU	max. Earth dist.	8212 Jan 03 14:33	20° ප 57'10	1.41267 AU
evening rise	8211 Jan 28 02:14	18° ≈ 35'30		evening rise	8212 Jan 08 11:02	29° る 00'20	
	8211 Feb 04 12:50	0° ∀			8212 Jan 09 01:45	0° ≈	
	8211 Feb 26 07:19	0° Ƴ			8212 Jan 29 02:30	0° ∀	
evening max el	8211 Feb 28 17:44	2° Y 37'41	21°47'16	evening max el	8212 Feb 11 09:42	16° ¥ 19′21	23°06'20
retrograde	8211 Mar 09 22:01	8° Y 03'51		retrograde	8212 Feb 21 17:30	22°) €26′24	
asc. node	8211 Mar 10 05:28	8° Y 03'22		asc. node	8212 Feb 25 02:35	21° 米 29′39	
evening set	8211 Mar 14 08:35	6° Ƴ 16'22		evening set	8212 Feb 26 15:32	20°) €24'04	
inferior conj	8211 Mar 19 16:08	29°) € 57'58		min. Earth dist.	8212 Mar 02 14:59	14°) 32′21	0.68384 AU
minimum elong	8211 Mar 19 13:57	0° Y 05'35	2°39'49	inferior conj	8212 Mar 03 00:48	13° ¥ 58′26	2°06'09
	8211 Mar 19 15:33	30° ₹		minimum elong	8212 Mar 02 22:34	14° ∺ 06′07	2°05'31
min. Earth dist.	8211 Mar 19 18:14	29°) € 50'40	0.68343 AU	morning rise	8212 Mar 08 05:32	7° ¥ 51'28	
morning rise	8211 Mar 24 19:09	23°) (46'06		direct	8212 Mar 12 14:37	6° ∺ 05'32	
direct	8211 Mar 29 18:13	21°) (37'55		morning max el	8212 Mar 21 05:29	11°) €04'27	21°16'47
morning max el	8211 Apr 08 14:26	27°) (26'31	22°41'29	desc. node	8212 Mar 30 20:49	22°) (47'31	
	8211 Apr 11 00:01	0° Υ			8212 Apr 05 00:12	0°Υ 24° 20 45154	
desc. node	8211 Apr 13 23:53	3° Y 31'41		morning set	8212 Apr 21 10:17	24° Y 47'54	
	8211 May 02 19:29	0°8		p a v	8212 Apr 24 16:48	0°8	1 40000 177
morning set	8211 May 12 16:53	15° 8 41'19	1 40201 433	max. Earth dist.	8212 Apr 28 11:37	6° 8 08'13	1.42386 AU
max. Earth dist.	8211 May 17 09:36	23° ႘ 33'09	1.40291 AU	gunariar car:	9212 May 05 10:25	100122011	2002110
	8211 May 21 03:00	$\Pi^{\circ}0$		superior conj	8212 May 05 19:35	18° 8 26'21	-Z UZ IU

minimum elong	8212 May 06 00:33 8212 May 12 09:55	18° 8 47'41 0° Ⅱ	2°01'59	superior conj minimum elong	8213 Apr 16 10:30 8213 Apr 16 10:53	28° Y 33'56 28° Y 35'29	
evening rise	8212 May 17 04:25	8° ∏ 35'10		minimum clong	8213 Apr 17 07:31	0° 8	2 11 33
asc. node	8212 May 23 01:29	19° Ⅱ 06′29		evening rise	8213 Apr 29 11:41	20° 8 30'46	
use. Houe	8212 May 29 20:52	0°9		evening rise	8213 May 05 00:21	0°II	
evening max el	8212 Jun 02 15:25	4° © 30'49	18°07'13	asc. node	8213 May 09 22:34	8° I 106'55	
retrograde	8212 Jun 09 09:14	7° 9 56'41	10 07 15	evening max el	8213 May 17 04:42	17° II 46'05	18°08'21
evening set	8212 Jun 11 21:23	7° 5 28'31		retrograde	8213 May 23 14:18	21° I 107'01	10 0021
inferior conj	8212 Jun 18 16:04	2° 9 34'37	2°12'10	evening set	8213 May 26 09:53	20° I I26'32	
minimum elong	8212 Jun 18 19:08	2° © 27'25		inferior conj	8213 Jun 01 14:32	15° Ⅱ 13'38	2°56'05
minimum ciong	8212 Jun 21 10:02	30°RII	2 11 10	minimum elong	8213 Jun 01 16:57	15° I I07'12	
min. Earth dist.	8212 Jun 21 22:34	29° I I31'48	0.60467 AU	min. Earth dist.	8213 Jun 04 10:04	12° I I14'35	0.62680 AU
morning rise	8212 Jun 25 14:11	26° I I41'54	0.00407710	morning rise	8213 Jun 07 10:04	9° I 14'35	0.02000 110
desc. node	8212 Jun 26 20:19	25° I I58'19		desc. node	8213 Jun 13 17:22	6° Ⅱ 37'13	
direct	8212 Jul 02 03:41	24° I 35'36		direct	8213 Jun 14 16:50	6° I I34'11	
uncet	8212 Jul 13 17:12	0°95		morning max el	8213 Jun 28 18:07	14° I I36'58	27°52'46
morning max el	8212 Jul 16 11:26	2° 9 32'52	27048122	morning max ci	8213 Jul 11 05:12	0°9	27 32 40
morning max ci	8212 Aug 05 13:13	2 3 32 32	27 40 32		8213 Jul 29 03:10	0° U	
mamina aat	8212 Aug 03 13.13 8212 Aug 17 22:45	0 8 <i>t</i> 23° Ω 24'13		morning set	8213 Aug 01 21:55	7° Ω 27'16	
morning set	- C			Č	8213 Aug 01 21:55 8213 Aug 05 21:50	$15^{\circ}\Omega44'18$	
asc. node	8212 Aug 19 00:52	25° Ω 40'42		asc. node	2		1 22205 ATT
D d F	8212 Aug 21 01:34	0° m/y	1.21756 ATT	max. Earth dist.	8213 Aug 07 06:18	18° Ω 37'21	1.32305 AU
max. Earth dist.	8212 Aug 24 00:56	6° Mp 28′42	1.31756 AU		0212 4 00 12 10	220 022155	0026120
	0010 1 05 0100		0050110	superior conj	8213 Aug 09 13:10	23° Ω 33'55	
superior conj	8212 Aug 25 04:28	9° m, 00'30	0°59'10	minimum elong	8213 Aug 09 11:35	23° Ω 25'15	0°35'54
minimum elong	8212 Aug 25 02:18	8° Mp 48'33	0°58'43		8213 Aug 12 11:50	0° т р	
evening rise	8212 Aug 31 22:31	23° m/49'05		evening rise	8213 Aug 16 10:07	8°m/31'16	
	8212 Sep 03 21:10	0∘ ⊽			8213 Aug 27 11:31	0∘ ⊽	
	8212 Sep 21 16:56	0°M		evening max el	8213 Sep 09 14:03	17° ≙ 33'45	23°53'41
desc. node	8212 Sep 22 19:12	1°M22'20		desc. node	8213 Sep 09 16:19	17° ≏ 39'13	
evening max el	8212 Sep 28 01:48	7° M 07'54	25°27'26	retrograde	8213 Sep 23 05:56	24° ≏ 24'08	
retrograde	8212 Oct 11 23:47	14°M10'00		evening set	8213 Sep 27 21:01	23° ≏ 37'11	
evening set	8212 Oct 17 22:58	12° M 47'45		min. Earth dist.	8213 Oct 04 00:34		0.55981 AU
min. Earth dist.	8212 Oct 22 13:51		0.57690 AU	inferior conj	8213 Oct 06 05:29	19° ≏ 17'43	
inferior conj	8212 Oct 25 13:57	8°M05'33		minimum elong	8213 Oct 06 04:48	19° ≏ 18'46	5°34'24
minimum elong	8212 Oct 25 19:21	7°M56'13	5°15'09	morning rise	8213 Oct 14 14:41	15° ≏ 21'08	
morning rise	8212 Nov 02 18:05	3°M49'32		direct	8213 Oct 17 09:08	15° ≏ 01'37	
direct	8212 Nov 05 03:19	3°M32'17		morning max el	8213 Oct 27 14:11	19° ≏ 49'43	20°00'07
morning max el	8212 Nov 13 22:01	7°M44'36	18°55'20	asc. node	8213 Nov 01 21:28	26° ≏ 03'19	
asc. node	8212 Nov 15 00:28	8°M51'45			8213 Nov 04 12:41	0°M₊	
	8212 Nov 28 06:07	0° ∡ ¹		morning set	8213 Nov 14 15:17	18° M 50′22	
morning set	8212 Nov 30 10:27	4° ≯ 15'31			8213 Nov 20 02:25	0°⊀	
superior conj	8212 Dec 08 20:51		1°15'09	superior conj	8213 Nov 22 08:34	4° ≯ ³33'01	1°31'28
minimum elong	8212 Dec 09 00:06	20° ₹ 59'34	1°14'55	minimum elong	8213 Nov 22 10:49	4° ≯ 144'12	1°31'25
	8212 Dec 13 20:10	0°ප		max. Earth dist.	8213 Nov 28 02:44	15° ⊀ 45'07	1.37001 AU
max. Earth dist.	8212 Dec 15 20:37	3° る 37'57	1.39130 AU	evening rise	8213 Dec 01 21:28	22° ҂ ⁴43'35	
evening rise	8212 Dec 19 17:48	10° る 24'25			8213 Dec 06 00:43	0°₹	
desc. node	8212 Dec 19 18:09	10°る25'53		desc. node	8213 Dec 06 15:12	1° る 01'53	
	8212 Dec 31 22:07	0° ≈			8213 Dec 25 17:16	0° ≈	
	8213 Jan 23 21:27	0° ℋ		evening max el	8214 Jan 06 12:34	13° ≈ 52'34	25°39'17
evening max el	8213 Jan 23 23:22	0°) 04'45	24°25'57	retrograde	8214 Jan 18 20:40	20° ≈ 56'58	
retrograde	8213 Feb 04 09:23	6°) 45′51		evening set	8214 Jan 24 19:48	18° ≈ 29'45	
evening set	8213 Feb 09 19:48	4°) €29'56		asc. node	8214 Jan 28 20:44	14° ≈ 09'47	
asc. node	8213 Feb 10 23:40	3°) (24′39		min. Earth dist.	8214 Jan 29 04:02	13° ≈ 46′53	0.67287 AU
	8213 Feb 13 20:39	30° ₹ ≈		inferior conj	8214 Jan 30 12:37	12° ≈ 03'07	0°32'57
min. Earth dist.	8213 Feb 14 11:02	29° ≈ 12'26	0.68027 AU	minimum elong	8214 Jan 30 11:48	12° ≈ 05'44	0°32'44
inferior conj	8213 Feb 15 08:15	28° ≈ 01′18	1°23'32	morning rise	8214 Feb 05 04:14	6°≈10'52	
minimum elong	8213 Feb 15 06:28	28° ≈ 07'17	1°22'58	direct	8214 Feb 08 12:24	5° ≈ 06'47	
morning rise	8213 Feb 20 17:14	22° ≈ 00'42		morning max el	8214 Feb 15 10:02	8° ≈ 54'16	19°04'27
direct	8213 Feb 24 13:11	20° ≈ 36'45		greatest brilliancy	8214 Mar 01 02:09	27° ≈ 18'40	-0.8m
morning max el	8213 Mar 04 03:49	24°≈54'01	20°03'14	•	8214 Mar 02 20:31	0°) €	
	8213 Mar 08 15:24	0°) €		desc. node	8214 Mar 04 14:42	2°) 41′48	
desc. node	8213 Mar 17 17:45	12°) 33′33		morning set	8214 Mar 10 12:08	11°) 48′26	
	8213 Mar 29 08:16	$0^{\circ}\mathbf{\Upsilon}$			8214 Mar 22 04:23	$0^{\circ}\mathbf{\Upsilon}$	
morning set	8213 Mar 31 09:00	3° Y 07'25		max. Earth dist.	8214 Mar 24 12:24	3° Ƴ 39'46	1.45158 AU
max. Earth dist.	8213 Apr 10 20:43	19° Y 33'53	1.44073 AU				
				superior conj	8214 Mar 27 02:32	7° Y 44'37	-2°02'53
				-			

evening set

inferior conj

morning rise

min. Earth dist.

minimum elong

8217 Nov 17 05:10

8217 Nov 20 22:24

8217 Nov 24 01:09

8217 Nov 24 08:03

8217 Dec 01 13:15

11°×35'27

8°**х** 52′42

6°**∡**12'28

5°**х** 57′38

1°×20'38

0.60932 AU

-3°48'02

3°45'43

asc. node

morning max el

morning set

direct

8216 Dec 19 11:52

8216 Dec 20 16:31

8216 Dec 27 08:27

8217 Jan 03 03:52

8217 Jan 12 11:00

17°**∡**′41'39

17°**х** 34′56

15°**る**49'15

0°る

21°**х** 00'18 17°47'52

	8219 Oct 18 13:26	30° ₹ Ω		ovening set	8220 Sep 18 18:38	15° ≏ 21'09	
morning rise	8219 Oct 18 13:20 8219 Oct 26 10:05	26° £ 09'50		evening set min. Earth dist.	8220 Sep 25 18:30	13 = 21 09 12° ⊆ 07'59	0.55427 AU
direct	8219 Oct 28 10:03 8219 Oct 28 22:51	25° ⊆ 51'53		inferior conj	8220 Sep 27 10:47	11° ⊆ 09'19	
direct	8219 Nov 06 23:30	0°M		minimum elong	8220 Sep 27 16:47 8220 Sep 27 06:49	11° ⊆ 0515	
morning max el	8219 Nov 07 07:05	0°ML17'46	19°20'16	morning rise	8220 Oct 05 21:07	7° ⊆ 18'39	3 27 20
asc. node	8219 Nov 10 02:56	3°M22'16	1, 2010	direct	8220 Oct 08 20:38	6° £ 57'30	
morning set	8219 Nov 24 09:02	27°M45'50		morning max el	8220 Oct 19 17:51	12° ⊆ 03'13	20°34'31
morning sec	8219 Nov 25 11:52	0° %		asc. node	8220 Oct 26 23:55	20° £ 58'21	20 3 . 3 .
		•			8220 Nov 01 08:26	0°M	
superior conj	8219 Dec 02 11:18	13° ₹ ′52'05	1°23'06	morning set	8220 Nov 07 15:56	12°M26'15	
minimum elong	8219 Dec 02 14:12	14° ∡ ¹06'09	1°22'58	3			
max. Earth dist.	8219 Dec 09 00:02	26° √ 11'38	1.38203 AU	superior conj	8220 Nov 15 03:49	27°M55'06	1°35'54
	8219 Dec 11 02:43	6°0		minimum elong	8220 Nov 15 05:30	28°M03'41	1°35'57
evening rise	8219 Dec 12 17:43	2° る 52'07		Č	8220 Nov 16 04:27	0° ∡ 7	
desc. node	8219 Dec 14 20:34	6° ප 31'53		max. Earth dist.	8220 Nov 20 07:27	8° ₹ 09'28	1.36146 AU
	8219 Dec 29 17:42	0° ≈		evening rise	8220 Nov 24 05:15	15° ∡ ³32′23	
evening max el	8220 Jan 17 05:48	23°≈17'10	24°58'20	desc. node	8220 Nov 30 17:37	27° ∡ ¹03'55	
•	8220 Jan 27 11:56	0° ∀			8220 Dec 02 11:36	0°రె	
retrograde	8220 Jan 29 01:39	0° ₩ 09'33			8220 Dec 23 07:48	0° ≈	
Č	8220 Jan 30 14:03	30°R≈		evening max el	8220 Dec 29 18:49	7°≈03'32	26°06'43
evening set	8220 Feb 03 17:38	27° ≈ 48'09		retrograde	8221 Jan 11 10:49	14°≈15'20	
asc. node	8220 Feb 06 02:08	25° ≈ 25'39		evening set	8221 Jan 17 15:15	11° ≈ 44'07	
min. Earth dist.	8220 Feb 08 05:39	22°≈45'40	0.67759 AU	min. Earth dist.	8221 Jan 21 20:37	7°≈16'10	0.66856 AU
inferior conj	8220 Feb 09 07:48	21° ≈ 19'47	1°03'02	asc. node	8221 Jan 22 23:11	5°≈54'02	
minimum elong	8220 Feb 09 06:21	21° ≈ 24'32	1°02'35	inferior conj	8221 Jan 23 10:13	5°≈19'43	0°09'12
morning rise	8220 Feb 14 19:21	15° ≈ 22'47		minimum elong	8221 Jan 23 09:58	5°≈20'29	0°09'13
direct	8220 Feb 18 10:05	14° ≈ 07'44		transit middle	8221 Jan 23 09:58	5°≈20'29	0°09'13
morning max el	8220 Feb 25 16:34	18° ≈ 10'37	19°36'24	transit begin	8221 Jan 23 07:38	5° ≈ 27'45	
C	8220 Mar 06 02:21	0° ∀		transit end	8221 Jan 23 12:18	5°≈13'13	
greatest brilliancy	8220 Mar 09 10:24	4° ¥ 50'19	-0.7m		8221 Jan 28 12:15	30°R₹	
desc. node	8220 Mar 11 20:07	8°) 24'42		morning rise	8221 Jan 29 05:21	29° ප 31'52	
morning set	8220 Mar 22 02:32	24°) 02'44		direct	8221 Feb 01 08:52	28° ප 35'31	
	8220 Mar 25 22:58	$0^{\circ}\mathbf{\Upsilon}$			8221 Feb 05 09:29	0° ≈	
max. Earth dist.	8220 Apr 03 04:02	12° Y 51'51	1.44619 AU	morning max el	8221 Feb 08 01:47	2°≈14'20	18°44'19
	•			desc. node	8221 Feb 26 17:03	28° ≈ 40'17	
superior conj	8220 Apr 07 13:50	19° Ƴ 53'46	-2°10'32		8221 Feb 27 13:24	0° ∀	
minimum elong	8220 Apr 07 11:14	19° Ƴ 43′20	2°10'31	morning set	8221 Mar 01 14:26	3° 升 12′06	
	8220 Apr 13 19:00	0° ႘		max. Earth dist.	8221 Mar 16 21:06	27° ₩ 07'18	1.45400 AU
evening rise	8220 Apr 21 09:00	12° 8 38'15					
	8220 May 01 20:12	$\Pi^{\circ}0$		superior conj	8221 Mar 17 23:00	28°) 48'48	-1°52'54
asc. node	8220 May 04 01:04	3° Ⅲ 22′23		minimum elong	8221 Mar 17 14:16	28° ℋ 14'33	1°52'14
evening max el	8220 May 09 21:18	10° Ⅱ 48'24	18°14'21		8221 Mar 18 17:09	$0^{\circ}\mathbf{\Upsilon}$	
retrograde	8220 May 16 06:33	14° Ⅱ 11'54		evening rise	8221 Apr 02 07:53	23° Y 11'42	
evening set	8220 May 19 05:07	13° Ⅱ 25'47			8221 Apr 06 13:25	8°	
inferior conj	8220 May 25 05:02	8° Ⅱ 04'57	3°07'53	greatest brilliancy	8221 Apr 09 10:28	4° 8 36'47	-0.9m
minimum elong	8220 May 25 06:55	7° Ⅱ 59'39	3°07'28	asc. node	8221 Apr 20 22:07	21° 8 34'46	
min. Earth dist.	8220 May 27 18:26	5° Ⅱ 13'55	0.63558 AU	evening max el	8221 Apr 23 08:57	24° 8 20'05	18°41'31
morning rise	8220 May 31 07:25	1° Ⅱ 52'29		retrograde	8221 Apr 29 23:26	27° 8 57'57	
	8220 Jun 03 09:32	30° ₹ 8		evening set	8221 May 03 05:20	26° 8 57'53	
direct	8220 Jun 07 01:31	29° 8 14'11		inferior conj	8221 May 08 20:49	21° 8 20'22	3°22'24
desc. node	8220 Jun 07 19:44	29° 8 16'02		minimum elong	8221 May 08 21:21	21° 8 18'42	3°22'15
	8220 Jun 10 22:47	Π $^{\circ}0$		min. Earth dist.	8221 May 10 19:04	18° 8 58'51	0.65383 AU
morning max el	8220 Jun 20 22:57	7° Ⅱ 16'32	27°43'29	morning rise	8221 May 14 12:41	15° 8 03'00	
	8220 Jul 08 08:57	0 \circ \odot		direct	8221 May 21 01:56	12° 8 16'06	
	8220 Jul 25 08:45	$0^{\circ}\Omega$		desc. node	8221 May 25 16:43	13° 8 25'08	
morning set	8220 Jul 25 16:19	0° Ω 37'39		morning max el	8221 Jun 03 09:17	20° 8 08'11	26°58'47
max. Earth dist.	8220 Jul 30 17:35	11° Ω 00′58	1.32684 AU		8221 Jun 11 20:01	$\Pi^{\circ}0$	
asc. node	8220 Jul 31 00:20	11° Ω 36'44			8221 Jul 01 11:00	0°9	
				morning set	8221 Jul 09 02:09	13° © 58'27	
superior conj	8220 Aug 02 12:49	17° Ω 00'06	0°25'23	max. Earth dist.	8221 Jul 13 10:35	22° © 32'49	1.33920 AU
minimum elong	8220 Aug 02 11:38	16° Ω 53'42	0°25'02		8221 Jul 17 01:39	$0^{\circ}\Omega$	
	8220 Aug 08 12:48	0° m					
evening rise	8220 Aug 09 12:14	2°M 05'23		superior conj	8221 Jul 17 14:25	1° Ω 06'47	-0°02'55
	8220 Aug 24 18:14	0∘ ⊽		minimum elong	8221 Jul 17 14:35	1° Ω 07'36	0°03'01
evening max el	8220 Sep 01 09:22	9° ₽ 13'22	23°11'08	behind sun begin	8221 Jul 17 09:00	0° £ 38′23	
desc. node	8220 Sep 03 18:44	11° ≏ 21'27		behind sun end	8221 Jul 17 20:10	1° Ω 36′53	
retrograde	8220 Sep 14 19:13	15° ≏ 55'43		asc. node	8221 Jul 17 21:19	1° Ω 42'57	

evening rise	8221 Jul 24 22:38	16° Ω 39'01			8222 Jul 08 18:09	0°N	
evening rise	8221 Jul 31 14:32	0° m)		evening rise	8222 Jul 09 05:46	0°Ω59'32	
evening max el	8221 Aug 14 01:26	19° m 33'16	21°34'57	<i>y</i>	8222 Jul 26 18:38	0° m	
desc. node	8221 Aug 21 15:49	24° Mp 46'27		evening max el	8222 Jul 27 05:16	0° m 26'49	20°12'59
retrograde	8221 Aug 26 09:38	25° Mp 40'27		retrograde	8222 Aug 06 22:24	5° ™ 44'09	
evening set	8221 Aug 29 00:12	25° m 25'01		evening set	8222 Aug 08 20:57	5° m 34'31	
inferior conj	8221 Sep 07 05:09	21° Mp 26'34	-4°32'00	desc. node	8222 Aug 08 12:53	5° ™ 37'32	
minimum elong	8221 Sep 06 19:51	21° m 39'35		inferior conj	8222 Aug 17 23:32	1° Mp 36′22	
min. Earth dist.	8221 Sep 07 03:13	21° m)29'16	0.54717 AU	minimum elong	8222 Aug 17 15:52	1° m 47'42	
morning rise	8221 Sep 15 16:30	17° m) 36'04		min. Earth dist.	8222 Aug 19 13:28		0.54955 AU
direct	8221 Sep 19 06:19	17° Mp 08'14	22000124		8222 Aug 20 17:34	30°R€	
morning max el	8221 Oct 01 15:59	23° m 00'17	22°08'34	morning rise	8222 Aug 26 09:39	27° Ω 26'05	
1	8221 Oct 07 18:59	0∘ ⊽		direct	8222 Aug 30 17:00	26° Ω 45'59	
asc. node	8221 Oct 13 20:54	9° £ 21'02 27° £ 14'01			8222 Sep 09 01:52	0° Т р	22952154
morning set	8221 Oct 23 02:07 8221 Oct 24 09:34	2/° ≥≥ 1401 0° M ⊾		morning max el asc. node	8222 Sep 13 05:45 8222 Sep 30 17:53	3° Mp 22'17 28° Mp 19'05	23-33-34
	8221 Oct 24 09.34	0 IIG		asc. Hode	8222 Sep 30 17:33 8222 Oct 01 15:11	0° ت	
superior conj	8221 Oct 30 04:56	12° M L21'38	1°41'11	morning set	8222 Oct 07 13:47	0 = 12° £ 04'05	
minimum elong	8221 Oct 30 04:30 8221 Oct 30 05:17	12°M23'30	1°41'17	morning sec	0222 OCt 07 13.47	12 -0403	
max. Earth dist.	8221 Nov 02 21:34	20°ML02'30	1.34395 AU	superior conj	8222 Oct 14 11:49	27° ≏ 03'16	1°39'49
evening rise	8221 Nov 07 08:30	28°M54'26	1.5 1575 110	minimum elong	8222 Oct 14 11:00	26° £ 58'47	1°39'51
2 . 2	8221 Nov 07 22:06	0° × 7			8222 Oct 15 20:33	0°M	
desc. node	8221 Nov 17 14:40	17° ∡ ¹22'02		max. Earth dist.	8222 Oct 16 20:17		1.33050 AU
	8221 Nov 25 15:46	ರ°0		evening rise	8222 Oct 21 23:42	12°M48'27	
evening max el	8221 Dec 12 08:04	20° る 42'45	26°58'25	C	8222 Oct 31 03:09	0° ∡ ¹	
retrograde	8221 Dec 25 14:18	28° る 02'27		desc. node	8222 Nov 04 11:43	7° ∡ 19'55	
evening set	8222 Jan 01 05:52	25° る 26'28			8222 Nov 20 22:10	5°0	
min. Earth dist.	8222 Jan 05 05:25	21° る 32'43	0.65590 AU	evening max el	8222 Nov 24 20:28	4° る 03'49	27°26'11
inferior conj	8222 Jan 07 06:34	19° ろ 12'00	-0°51'49	retrograde	8222 Dec 08 11:16	11° る 22'45	
minimum elong	8222 Jan 07 08:04	19° る 07'42	0°51'02	evening set	8222 Dec 15 11:02	8° る 49'04	
asc. node	8222 Jan 09 20:14	16° る 23'43		min. Earth dist.	8222 Dec 19 05:44		0.63993 AU
morning rise	8222 Jan 13 11:26	13° る 35'44		inferior conj	8222 Dec 21 18:21	2° る 50'40	
direct	8222 Jan 16 05:35	12° る 54'24		minimum elong	8222 Dec 21 22:02	2° る 41'04	1°57'00
morning max el	8222 Jan 22 16:20	16° පි 20'22	18°08'49		8222 Dec 24 15:57	30°₹ ⋌ 7	
	8222 Feb 01 17:33	0° ≈		asc. node	8222 Dec 27 17:18	27° ∡ 749'06	
morning set	8222 Feb 10 06:56	13°≈48'39		morning rise	8222 Dec 28 10:44	27° 🖈 29'05	
desc. node	8222 Feb 13 14:01 8222 Feb 20 08:04	19° ≈ 09'33 0° ∀		direct	8222 Dec 30 21:43 8223 Jan 06 00:29	26°♂58'55 0°舌	
	8222 Feb 20 08.04	υ χ		morning max el	8223 Jan 06 00:29 8223 Jan 06 09:30	0 3 0° る 21'44	17°50'26
superior conj	8222 Feb 25 04:55	7°) 42′24	-1°17'23	morning set	8223 Jan 23 03:28	25° る 47'21	17 30 20
minimum elong	8222 Feb 24 20:14	7° ₩ 08'13		morning sec	8223 Jan 25 14:52	0°≈	
max. Earth dist.	8222 Feb 27 16:34	11°) 36'46	1.45445 AU	desc. node	8223 Jan 31 10:58	9° ≈ 47'50	
	8222 Mar 11 11:44	$0^{\circ}\Upsilon$					
evening rise	8222 Mar 13 08:48	2° Y ′54'59		superior conj	8223 Feb 05 02:07	17° ≈ 23'34	-0°33'11
greatest brilliancy	8222 Mar 25 19:05	22° Y ′02'59	-0.7m	minimum elong	8223 Feb 04 22:24	17° ≈ 08′28	0°32'31
	8222 Mar 31 06:05	0° 8		max. Earth dist.	8223 Feb 10 11:48	26° ≈ 03'37	1.44757 AU
evening max el	8222 Apr 06 16:48	7° 8 57'09	19°25'40		8223 Feb 12 23:42	0° ∀	
asc. node	8222 Apr 07 19:11	9° 8 00'33		evening rise	8223 Feb 20 20:56	12° ∺ 14'19	
retrograde	8222 Apr 13 20:23	12° 8 00'55			8223 Mar 04 15:09	$0^{\circ}\mathbf{\Upsilon}$	
evening set	8222 Apr 17 10:16	10° 8 46'07		evening max el	8223 Mar 20 19:27	21° Y 35'50	20°24'51
inferior conj	8222 Apr 22 20:33	4° 8 53'22		asc. node	8223 Mar 25 16:16	25° Y 25'47	
minimum elong	8222 Apr 22 19:51	4° 8 55'38		retrograde	8223 Mar 28 18:52	26° Y 14'54	
min. Earth dist.	8222 Apr 24 03:37	3° 8 11'37	0.66802 AU	evening set	8223 Apr 01 17:42	24° Y 44'56	2000120
morning rise	8222 Apr 26 19:06	30° ₹ Υ 28° Υ 35'32		inferior conj	8223 Apr 07 01:27	18° Ƴ 38'46 18° Ƴ 44'16	3°08'20 3°08'03
morning rise direct	8222 Apr 28 05:05 8222 May 04 08:45	26 1 33 32 25° Υ 52'03		minimum elong min. Earth dist.	8223 Apr 06 23:51 8223 Apr 07 18:21	18 γ 44 10	0.67774 AU
desc. node	8222 May 12 13:42	29° Y 28'09		morning rise	8223 Apr 07 18:21 8223 Apr 12 05:47	17 Υ 41 02 12° Υ 22'48	0.07774 AO
dese. node	8222 May 13 05:29	0° 8		direct	8223 Apr 17 20:49	9° Υ 52'22	
morning max el	8222 May 16 19:12	3° 8 18'21	25°49'10	morning max el	8223 Apr 29 04:18	16° Υ 38'28	24°24'28
	8222 Jun 06 02:10	0°II		desc. node	8223 Apr 29 10:40	16° Υ 54'42	
morning set	8222 Jun 21 22:09	26° Ⅲ 37′08			8223 May 10 05:59	0°8	
-	8222 Jun 23 17:56	0ංම			8223 May 30 01:55	0°Ⅲ	
max. Earth dist.	8222 Jun 25 16:41	3°5541'11	1.35631 AU	morning set	8223 Jun 03 23:21	8° Ⅲ 20′10	
				max. Earth dist.	8223 Jun 07 14:52	14° Ⅱ 48'36	1.37713 AU
superior conj	8222 Jul 01 08:00	14° 5 946'27	-0°33'49				
minimum elong	8222 Jul 01 09:59	14° © 56'31	0°33'34	superior conj	8223 Jun 14 14:16	27° Ⅱ 50′22	
asc. node	8222 Jul 04 18:19	21° 5 46'07		minimum elong	8223 Jun 14 18:19	28° Ⅱ 09'52	1°05'07

	8223 Jun 15 17:04	0° ©		superior conj	8224 May 27 05:08	10° ∏ 08'30	1025'25
asc. node	8223 Jun 21 15:20	11° 9 541'59		minimum elong	8224 May 27 10:45	10° Д 34'12	
evening rise	8223 Jun 23 07:06	11 5 41 39 14° 5 5 9' 41		evening rise	8224 Jun 05 23:34	28° I I31'12	1 33 03
evening rise	8223 Jul 23 07:00 8223 Jul 01 05:36	14 3 3941 0° Ω		evening rise	8224 Jun 06 18:12	20 H 31 12	
avanina may al	8223 Jul 01 03:30 8223 Jul 09 22:08	12° Ω 04'38	19°10'53	asc. node	8224 Jun 07 12:22	1° 5 26'14	
evening max el	8223 Jul 18 23:01	12 δ t 04 38 16° Ω 32'41	19 10 33		8224 Jun 07 12.22 8224 Jun 22 01:30	24°\$23'29	18°29'42
retrograde		16° Ω 21'41		evening max el	8224 Jun 29 18:15	24 3 23 29 28° 5 13'41	18 29 42
evening set	8223 Jul 20 20:34			retrograde	8224 Jul 01 21:42		
desc. node	8223 Jul 26 09:57	14° Ω 02'44	0052124	evening set		27°556'42	0040121
inferior conj	8223 Jul 29 07:48	12° Ω 10'19		inferior conj	8224 Jul 09 13:09	23°526'08	0°48'31
minimum elong	8223 Jul 29 05:28	12° Ω 14'15	0°52'37	minimum elong	8224 Jul 09 14:51	23°522'47	0°47'46
min. Earth dist.	8223 Aug 01 02:56	10°Ω17'53	0.56101 AU	desc. node	8224 Jul 12 07:01	21°5516'17	
morning rise	8223 Aug 06 11:24	7° Ω 25'16		min. Earth dist.	8224 Jul 12 21:36	20°5548'36	0.57936 AU
direct	8223 Aug 11 14:37	6° Ω 24'28		morning rise	8224 Jul 17 04:32	18° © 04'29	
morning max el	8223 Aug 25 18:35	13° Ω 37'07	25°35'37	direct	8224 Jul 23 02:48	16° © 34'20	
	8223 Sep 07 15:53	0° m ∕		morning max el	8224 Aug 06 12:10	24° © 13'33	26°56'39
asc. node	8223 Sep 17 14:53	17° m 43'19			8224 Aug 11 18:31	0 \circ Ω	
morning set	8223 Sep 22 01:15	26° Mp 51'40			8224 Aug 30 18:27	0° m ∕	
	8223 Sep 23 12:19	0∘ ⊽		asc. node	8224 Sep 03 11:51	7° Mp 26′02	
				morning set	8224 Sep 05 10:48	11° m 31'03	
superior conj	8223 Sep 28 22:10	11° ≙ 52'57	1°32'33				
minimum elong	8223 Sep 28 20:28	11° ≏ 43'34	1°32'25	superior conj	8224 Sep 12 09:55	26° Mp 43′39	1°19'53
max. Earth dist.	8223 Sep 30 02:07	14° £ 26'46	1.32146 AU	minimum elong	8224 Sep 12 07:45	26° Mp 31'33	1°19'34
evening rise	8223 Oct 05 23:38	27° ≙ 05'38		max. Earth dist.	8224 Sep 12 11:43	26° m 53'38	1.31700 AU
	8223 Oct 07 09:34	0° M ₊			8224 Sep 13 21:20	0∘ ত	
desc. node	8223 Oct 22 08:47	26°ML49'10		evening rise	8224 Sep 19 05:34	11° ≏ 37'36	
	8223 Oct 24 11:19	0° ∡ ¹			8224 Sep 28 13:49	0° M ₊	
evening max el	8223 Nov 07 05:44	16° ₹ 53'25	27°23'56	desc. node	8224 Oct 08 05:53	15° ™ 37'26	
retrograde	8223 Nov 21 01:08	24° ₹ 07'42		evening max el	8224 Oct 19 09:04	28°M58'01	26°48'05
evening set	8223 Nov 28 03:40	21° ∡ ¹45'22		<i>8</i>	8224 Oct 20 12:09	0° ∡ 7	
min. Earth dist.	8223 Dec 01 19:51	18° ∡ 751'42	0.62110 AU	retrograde	8224 Nov 02 06:57	6° х ¹06'58	
inferior conj	8223 Dec 04 18:37			evening set	8224 Nov 09 03:35	4° ⋌ °07'04	
minimum elong	8223 Dec 05 00:33	15° × 754'48	3°06'11	min. Earth dist.	8224 Nov 12 23:11	1° ∡ °30'07	0.60040 AU
morning rise	8223 Dec 11 23:34	11°×705'05	3 00 11	mm. Latti dist.	8224 Nov 14 20:09	30°RM	0.00040710
direct	8223 Dec 14 05:56	10° × 42'28		inferior conj	8224 Nov 16 03:50	28°M55'16	-4°15'42
asc. node	8223 Dec 14 03:30 8223 Dec 14 14:21	10 × 42 28 10°× 43'02		minimum elong	8224 Nov 16 03:30 8224 Nov 16 11:05	28°M40'33	
morning max el	8223 Dec 21 02:13	10 x 43 02 14° x 11'10	17°49'54	morning rise	8224 Nov 10 11:03 8224 Nov 23 21:01	24°M13'07	4 13 34
morning max er	8223 Dec 31 22:43	14 メ ・11 10	17 49 34	direct		24 IL 13 07 23°M 54'48	
					8224 Nov 26 02:05		
morning set	8224 Jan 05 21:53	8° る 48'46		asc. node	8224 Nov 30 11:24	25°M10'52	10000124
	0224 1 17 00 24	200=710112	0000141	morning max el	8224 Dec 03 14:59	27°M38'23	18°08'24
superior conj	8224 Jan 17 00:24	28°る18'13	0°09'41		8224 Dec 05 18:37	0° ⊼ ¹	
minimum elong	8224 Jan 17 01:19	28° る 22'06	0°09'41	morning set	8224 Dec 19 07:53	22° ₹ 33'14	
behind sun begin	8224 Jan 16 18:18	27° る 52'13			8224 Dec 23 07:16	0°ಕ	
behind sun end	8224 Jan 17 08:21	28° る 51'55					
desc. node	8224 Jan 18 07:57	0° ≈ 31'45		superior conj	8224 Dec 28 23:18	10° る 22'54	0°45'20
	8224 Jan 18 00:26	0° ≈		minimum elong	8224 Dec 29 02:26	10° る 36'55	0°45'02
max. Earth dist.	8224 Jan 24 03:55	10°≈10′23	1.43416 AU	desc. node	8225 Jan 04 04:57	21° る 17'04	
evening rise	8224 Jan 31 11:19	21° ≈ 47'16		max. Earth dist.	8225 Jan 05 14:46	23° る 40'09	1.41575 AU
	8224 Feb 05 19:35	0° ∀			8225 Jan 09 10:29	0° ≈	
	8224 Feb 27 01:10	$0^{\circ}\mathbf{\Upsilon}$		evening rise	8225 Jan 10 17:08	2° ≈ 04'18	
evening max el	8224 Mar 02 16:32	5° Ƴ 15'27	21°35'53		8225 Jan 29 05:23	0°) €	
retrograde	8224 Mar 11 16:55	10° Ƴ 35'38		evening max el	8225 Feb 13 09:03	18° ¥ 56'58	22°54'22
asc. node	8224 Mar 11 13:22	10° Ƴ 35'32		retrograde	8225 Feb 23 12:51	24°) 58′21	
evening set	8224 Mar 16 01:51	8° Ƴ 50'24		asc. node	8225 Feb 26 10:28	24°) 16′16	
inferior conj	8224 Mar 21 09:17	2° Ƴ 33'15	2°44'44	evening set	8225 Feb 28 09:04	22° ¥ 58'17	
minimum elong	8224 Mar 21 07:08	2° Y 40'43	2°44'14	inferior conj	8225 Mar 05 17:59	16°) 33′28	2°11'55
min. Earth dist.	8224 Mar 21 13:12	2° Ƴ 19'35	0.68303 AU	minimum elong	8225 Mar 05 15:44	16°) 41′16	2°11'16
	8224 Mar 23 06:06	30° ₹ ₩		min. Earth dist.	8225 Mar 05 09:56	17° ₩ 01'21	0.68405 AU
morning rise	8224 Mar 26 12:15	26° ∺ 20'41		morning rise	8225 Mar 10 22:18	10° ¥ 25'33	
direct	8224 Mar 31 13:23	24° ₩ 09'22		direct	8225 Mar 15 09:25	8° ¥ 36′13	
	8224 Apr 10 11:56	$0^{\circ}\mathbf{\Upsilon}$		morning max el	8225 Mar 24 04:24	13°) 42′17	21°28'43
morning max el	8224 Apr 10 14:19	0° Υ 06'00	22°54'38	desc. node	8225 Apr 02 04:36	24°) (32'24	
desc. node	8224 Apr 15 07:39	5° Y 21'45			8225 Apr 06 03:41	0°Υ	
	8224 May 03 01:50	0°8		morning set	8225 Apr 24 21:31	28° Υ 10'57	
morning set	8224 May 15 00:14	18° 8 53'38		<i>5</i>	8225 Apr 26 00:58	0°8	
max. Earth dist.	8224 May 19 11:23	26° 8 25'20	1.39957 AU	max. Earth dist.	8225 May 01 12:11	8° 8 51'43	1.42092 AU
	8224 May 21 12:58	0°II			, 		
	522inj 21 12.50	· —		superior conj	8225 May 08 23:55	21° 8 30'32	-1°59'27
				saperior conj	, 00 25.05		- -

minimum elong	8225 May 09 05:12	21° 8 53'28	1°59'12	superior conj	8226 Apr 19 18:34	1° 8 48'02	-2°11'27
_	8225 May 13 19:50	$\Pi^{\circ}0$		minimum elong	8226 Apr 19 19:53	1° 8 53'31	2°11'30
evening rise	8225 May 20 03:14	11° Ⅲ 24'21		evening rise	8226 May 02 13:28	23° 8 28'04	
asc. node	8225 May 25 09:25	20° Ⅲ 53'57			8226 May 06 07:57	Π $^{\circ}0$	
	8225 May 30 20:11	0°€		asc. node	8226 May 12 06:27	9° Ⅱ 58'25	
evening max el	8225 Jun 05 11:36	7° 5 014'35	18°08'44	evening max el	8226 May 20 00:41	20° Ⅱ 27'15	18°06'59
retrograde	8225 Jun 12 07:29	10° 5 642'18		retrograde	8226 May 26 10:47	23° ∐ 47′52	
evening set	8225 Jun 14 18:33	10° © 15'45		evening set	8226 May 29 05:19	23° ∏ 09'14	
inferior conj	8225 Jun 21 15:40	5° 5 24'58	2°03'14	inferior conj	8226 Jun 04 11:48	17° Ⅲ 59'01	2°50'56
minimum elong	8225 Jun 21 18:43	5° © 17'57	2°02'12	minimum elong	8226 Jun 04 14:22	17° Ⅲ 52′16	2°50'16
min. Earth dist.	8225 Jun 24 23:17	2° © 23'33	0.60130 AU	min. Earth dist.	8226 Jun 07 09:16	14° Ⅲ 58′09	0.62364 AU
	8225 Jun 28 00:55	30°R Ⅱ		morning rise	8226 Jun 10 21:38	11° Ⅱ 52'39	
morning rise	8225 Jun 28 16:04	29° Ⅲ 35'34		desc. node	8226 Jun 16 01:06	9° Ⅱ 32'49	
desc. node	8225 Jun 29 04:04	29° Ⅱ 17'41		direct	8226 Jun 17 15:54	9° Ⅱ 24'36	
direct	8225 Jul 05 04:13	27° Ⅲ 33'35		morning max el	8226 Jul 01 18:18	17° Ⅱ 26'47	27°54'31
	8225 Jul 12 17:55	0° ©			8226 Jul 12 04:54	0°€	
morning max el	8225 Jul 19 12:23	5° 5 29'08	27°44'35		8226 Jul 30 13:45	$0^{\circ}\Omega$	
	8225 Aug 06 19:14	$0^{\circ}\Omega$		morning set	8226 Aug 04 16:54	10° Ω 03'41	
morning set	8225 Aug 20 16:43	25° Ω 57'23		asc. node	8226 Aug 08 05:47	17° Ω 24'24	
asc. node	8225 Aug 21 08:49	27° £ 21'37		max. Earth dist.	8226 Aug 10 03:50	21° Ω 30′29	1.32196 AU
	8225 Aug 22 14:45	0° m			-		
max. Earth dist.	8225 Aug 26 21:35	9° m 18'55	1.31715 AU	superior conj	8226 Aug 12 06:30	26° Ω 05'23	0°40'04
				minimum elong	8226 Aug 12 04:47	25° Ω 56'01	0°39'38
superior conj	8225 Aug 27 21:20	11° m 30'03	1°02'16	•	8226 Aug 14 01:22	o° mp	
minimum elong	8225 Aug 27 19:08	11° m 17'52	1°01'50	evening rise	8226 Aug 19 02:45	11° Mp 00'36	
evening rise	8225 Sep 03 15:18	26° Mp 18'16			8226 Aug 28 17:23	0∘ ⊽	
-	8225 Sep 05 09:12	0° ت		desc. node	8226 Sep 12 00:02	19° ≏ 59'45	
	8225 Sep 22 11:49	0°M,		evening max el	8226 Sep 12 17:35	20° ≏ 42'55	24°08'23
desc. node	8225 Sep 25 02:58	3°M28'32		retrograde	8226 Sep 26 10:47	27° £ 35′21	
evening max el	8225 Oct 01 04:42	10° M ₊12'19	25°39'55	evening set	8226 Oct 01 07:22	26° ≏ 43'27	
retrograde	8225 Oct 15 03:00	17° M .15'09		min. Earth dist.	8226 Oct 07 04:19	23° ≏ 48'28	0.56205 AU
evening set	8225 Oct 21 05:52	15°M47'43		inferior conj	8226 Oct 09 13:04	22° ≙ 21'07	-5°34'36
min. Earth dist.	8225 Oct 25 17:06	13°M10'56	0.57982 AU	minimum elong	8226 Oct 09 13:30	22° ჲ 20′26	5°34'32
inferior conj	8225 Oct 28 18:37	11°ML01'50	-5°09'56	morning rise	8226 Oct 17 21:45	18° ≏ 22'05	
minimum elong	8225 Oct 29 00:34	10°M51'21	5°08'53	direct	8226 Oct 20 14:39	18° ≏ 03'01	
morning rise	8225 Nov 05 21:36	6°M42'16		morning max el	8226 Oct 30 14:04	22° ≏ 45'04	19°49'04
direct	8225 Nov 08 05:53	6°M25'05		asc. node	8226 Nov 04 05:23	28° ≏ 05'56	
morning max el	8225 Nov 16 20:07	10°M33'10	18°47'36		8226 Nov 05 13:47	0° M	
asc. node	8225 Nov 17 08:24	11°M03'32		morning set	8226 Nov 17 08:38	21°M19'54	
	8225 Nov 29 16:20	0°⊀			8226 Nov 21 14:55	0°⊀	
morning set	8225 Dec 03 04:39	6° ≯ 47'00					
				superior conj	8226 Nov 25 04:02	7° ∡ 08'00	1°29'30
superior conj	8225 Dec 11 18:12	23° ≯ 24'15	1°11'53	minimum elong	8226 Nov 25 06:28	7° ≯ 20′02	1°29'27
minimum elong	8225 Dec 11 21:32	23° ∡ 39'59	1°11'39	max. Earth dist.	8226 Dec 01 03:16	18° ₹ 39'21	1.37308 AU
	8225 Dec 15 07:11	0°₹		evening rise	8226 Dec 04 21:16	25° ∡ 31′02	
max. Earth dist.	8225 Dec 18 21:18	6° る 27'16	1.39456 AU		8226 Dec 07 10:18	0° ろ	
desc. node	8225 Dec 22 01:58	12°る00'22		desc. node	8226 Dec 08 22:59	2° ප 37'47	
evening rise	8225 Dec 22 20:34	13° る 19'33			8226 Dec 26 18:30	0° ≈	25020102
	8226 Jan 02 04:41	0° ≈		evening max el	8227 Jan 09 12:13	16°≈30'29	25°29'03
·	8226 Jan 24 09:01	0°) (42/22	24014121	retrograde	8227 Jan 21 17:12	23°≈31'52	
evening max el	8226 Jan 26 23:01	2°\(\frac{1}{42}\)'22	24°14'21	evening set	8227 Jan 27 14:32	21°≈06'05	
retrograde	8226 Feb 07 05:18	9° 米 18'42 7° 米 04'48		asc. node	8227 Jan 31 04:36	17°≈18'12	0.67422.411
evening set	8226 Feb 12 13:49	6°\(\frac{1}{24}\)		min. Earth dist.	8227 Jan 31 23:45	16°≈18'10	0.67422 AU
asc. node min. Earth dist.	8226 Feb 13 07:33 8226 Feb 17 06:13	1° χ 24 33	0.68107 AU	inferior conj	8227 Feb 02 06:39 8227 Feb 02 05:38	14°≈38'57	0°41'10 0°40'52
inferior conj	8226 Feb 17 00:13 8226 Feb 18 01:43	0° ∺ 36'26	1°30'34	minimum elong morning rise	8227 Feb 02 03.38 8227 Feb 07 21:07	14°≈42'11 8°≈45'25	0 40 32
		0°) 42'47	1°30'54 1°29'58	direct		0 ≈43 23 7°≈38'32	
minimum elong	8226 Feb 17 23:50		1 29 38		8227 Feb 11 07:00		19°12'15
morning rise	8226 Feb 18 12:33 8226 Feb 23 09:55	30°R≈ 24°≈34'44		morning max el greatest brilliancy	8227 Feb 18 06:36 8227 Mar 03 13:03	11° ≈ 29'26 29° ≈ 11'29	-0.7m
direct	8226 Feb 27 07:48	24 ≈34 44 23°≈07'29		greatest offinality	8227 Mar 03 13:03 8227 Mar 04 01:57	0°) €	-0.7111
morning max el	8226 Mar 07 01:30	23 ≈07 29 27°≈30'06	20°13'16	desc. node	8227 Mar 04 01.37 8227 Mar 06 22:30	4°) (20′24	
morning max ci	8226 Mar 09 09:21	27 ≈ 30 00	20 13 10	morning set	8227 Mar 13 22:46	15°) (07'55	
desc. node	8226 Mar 20 01:34	14°) 14'44		morning set	8227 Mar 13 22:40 8227 Mar 23 12:17	15 χ 07 33	
2000. 11000	8226 Mar 30 15:07	0°Υ		max. Earth dist.	8227 Mar 27 11:32	6°Υ13'38	1.45045 AU
morning set	8226 Apr 03 21:48	6° Ƴ 33'51					
max. Earth dist.	8226 Apr 13 20:24	22° Υ 11'16	1.43860 AU	superior conj	8227 Mar 30 13:34	11° Y 06'04	-2°05'33
	8226 Apr 18 16:13	0°8		minimum elong	8227 Mar 30 07:55	10° Y 43'43	
		-		3			

	8227 Apr 11 06:57	0°8			8228 Feb 05 13:54	0° ≈	
evening rise	8227 Apr 14 02:00	4° 8 35'30		morning set	8228 Feb 21 22:09	24°≈53'06	
asc. node	8227 Apr 29 03:31	28° 8 32'33		desc. node	8228 Feb 21 19:26	24° ≈ 42'19	
	8227 Apr 30 05:28	0°Ⅲ			8228 Feb 25 03:28	0° ∀	
evening max el	8227 May 03 13:39	3° Ⅱ 53'58	18°23'43				
retrograde	8227 May 09 23:53	7° Ⅱ 21'42		superior conj	8228 Mar 08 18:51	19° ¥ 53′26	-1°39'35
evening set	8227 May 13 01:39	6° Ⅱ 29'35		minimum elong	8228 Mar 08 09:14	19°) 15′49	1°38'38
inferior conj	8227 May 18 21:31	1° Ⅱ 01′21	3°16'09	max. Earth dist.	8228 Mar 09 06:31	20°) 39′05	1.45516 AU
minimum elong	8227 May 18 22:51	0° ∏ 57′28	3°15'52		8228 Mar 15 05:48	0° Υ	
	8227 May 19 18:27	30° ₹ 8		evening rise	8228 Mar 24 15:00	14° Y 45'55	
min. Earth dist.	8227 May 21 04:30	28° 8 21'31	0.64386 AU	greatest brilliancy	8228 Apr 03 05:30	29° Y ′53'31	-0.8m
morning rise	8227 May 24 19:05	24° 8 46'21 22° 8 03'06		1-	8228 Apr 03 07:10	0°8 16°826'29	
direct desc. node	8227 May 31 11:53 8227 Jun 02 22:07	22° 8 22'06		asc. node evening max el	8228 Apr 15 00:35 8228 Apr 15 23:52	17° 8 28'03	18°58'14
morning max el	8227 Jun 14 03:49	0° П 01'46	27°28'05	retrograde	8228 Apr 22 18:59	21° 8 15'45	10 30 14
morning max or	8227 Jun 14 03:07	0° П	27 20 03	evening set	8228 Apr 26 04:12	20° 8 09'21	
	8227 Jul 06 04:45	0°©		inferior conj	8228 May 01 17:05		3°23'41
morning set	8227 Jul 19 08:51	23° 5 43'09		minimum elong	8228 May 01 17:04	14° 8 24'53	3°23'35
	8227 Jul 22 12:06	$0^{\circ}\Omega$		min. Earth dist.	8228 May 03 08:41	12° 8 19'39	0.66042 AU
max. Earth dist.	8227 Jul 24 02:46	3° Ω 18′56	1.33155 AU	morning rise	8228 May 07 05:27	8° 8 06'48	
asc. node	8227 Jul 26 02:46	7° Ω 30′16		direct	8228 May 13 14:56	5° 8 20'21	
				desc. node	8228 May 19 19:06	7° 8 23'23	
superior conj	8227 Jul 27 11:29	10° Ω 23'57	0°13'48	morning max el	8228 May 26 14:23	13° 8 03'12	26°31'41
minimum elong	8227 Jul 27 10:48	10° Ω 20'19	0°13'32		8228 Jun 09 06:05	0° I I	
behind sun begin	8227 Jul 27 07:52	10° Ω 04'38			8228 Jun 27 20:59	0°95	
behind sun end evening rise	8227 Jul 27 13:44 8227 Aug 03 14:05	10° Ω 36'00 25° Ω 39'00		morning set max. Earth dist.	8228 Jul 01 13:21 8228 Jul 05 15:28	6°\$47'20 14°\$40'42	1.34595 AU
evening rise	8227 Aug 05 15:54	0° Mp		max. Earm dist.	8228 Jul 03 13.28	14 3940 42	1.34393 AU
	8227 Aug 24 07:44	0° م		superior conj	8228 Jul 10 10:01	24°9519'43	-0°15'47
evening max el	8227 Aug 25 05:44	0° £ 55'29	22°29'03	minimum elong	8228 Jul 10 10:54	24°\$24'19	
desc. node	8227 Aug 29 21:07	4° Ω 42'00		behind sun begin	8228 Jul 10 09:44	24° © 18'17	
retrograde	8227 Sep 07 06:13	7° ≏ 24'57		behind sun end	8228 Jul 10 12:05	24°530'21	
evening set	8227 Sep 10 14:38	7° ≏ 00'15		asc. node	8228 Jul 11 23:46	27° © 35'30	
min. Earth dist.	8227 Sep 18 12:34	3° ≏ 30'58	0.55020 AU		8228 Jul 13 03:25	$0^{\circ}\Omega$	
inferior conj	8227 Sep 19 13:39	2° ჲ 55'30		evening rise	8228 Jul 17 23:24	10° Ω 07'52	
minimum elong	8227 Sep 19 06:43	3° Ω 05'19	5°09'53		8228 Jul 28 10:11	0° m/y	
	8227 Sep 25 07:47	30°R M)		evening max el	8228 Aug 06 02:07	11° m/26'23	20°57'49
morning rise direct	8227 Sep 28 00:38 8227 Oct 01 06:09	29° Mp 07'35		desc. node	8228 Aug 15 18:12	17° Mp 03'54 17° Mp 14'06	
direct	8227 Oct 01 06:09 8227 Oct 06 20:32	28° Mp 43'57 0° <u>₽</u>		retrograde evening set	8228 Aug 17 18:53 8228 Aug 20 00:18	17° Mg 02'20	
morning max el	8227 Oct 00 20:32 8227 Oct 12 19:04	ა _ 4° ჲ 08'24	21°12'29	inferior conj	8228 Aug 29 06:10	13° mg 05'25	-3°52'51
asc. node	8227 Oct 22 02:23	16° ≏ 03'07		minimum elong	8228 Aug 28 20:44	13° m) 18'47	3°50'06
	8227 Oct 29 17:52	0°M		min. Earth dist.	8228 Aug 29 21:35	12° m 43'35	0.54692 AU
morning set	8227 Nov 01 17:11	6°M04'14		morning rise	8228 Sep 06 17:28	9° m 09'11	
				direct	8228 Sep 10 14:06	8° m 37'15	
superior conj	8227 Nov 09 00:34	21°M21'57	1°39'00	morning max el	8228 Sep 23 13:02	14° m 48'36	22°52'55
minimum elong	8227 Nov 09 01:42	21°M27'44	1°39'06		8228 Oct 05 05:47	0∘ ⊽	
	8227 Nov 13 06:35	0° ⊼		asc. node	8228 Oct 07 23:22	4° Ω 42'09	
max. Earth dist.	8227 Nov 13 13:26	0° ₹34'00 8° ₹29'55	1.35357 AU	morning set	8228 Oct 16 04:15	20° £ 54'07	
evening rise desc. node	8227 Nov 17 15:55 8227 Nov 25 19:59	8°×'29'33 23° <i>×</i> '04'26			8228 Oct 20 10:11	0°M₊	
desc. node	8227 Nov 30 01:26	23 メ ・04 20		superior conj	8228 Oct 23 04:32	5°M56'28	1°41'23
	8227 Dec 22 19:14	0° ≈		minimum elong	8228 Oct 23 04:32 8228 Oct 23 04:21	5°M55'31	1°41'28
evening max el	8227 Dec 23 01:24	0°≈14'59	26°31'10	max. Earth dist.	8228 Oct 26 07:14	12°M31'13	1.33763 AU
retrograde	8228 Jan 04 23:50	7° ≈ 30'46		evening rise	8228 Oct 31 00:42	22°M06'54	
evening set	8228 Jan 11 09:25	4°≈56'41		C	8228 Nov 04 03:38	0° ∡ ¹	
min. Earth dist.	8228 Jan 15 12:13	0° ≈ 43'38	0.66365 AU	desc. node	8228 Nov 11 17:03	13° ∡ 15′02	
	8228 Jan 16 02:53	30°Rる			8228 Nov 22 20:01	0°ಕ	
inferior conj	8228 Jan 17 06:45	28° පි 36'04		evening max el	8228 Dec 04 14:18	13° ප් 47'28	27°13'25
minimum elong	8228 Jan 17 07:10	28° る 34'47		retrograde	8228 Dec 18 00:43	21°る08'06	
transit middle	8228 Jan 17 07:10	28° ට 34'47	0°15'32	evening set	8228 Dec 24 20:23	18°る31'43	0.640=4 :=:
transit begin	8228 Jan 17 06:26	28° る 37'01		min. Earth dist.	8228 Dec 28 17:33		0.64954 AU
transit end asc. node	8228 Jan 17 07:55	28°る32'33 27°る39'39		inferior conj	8228 Dec 30 23:47	12°る23'19 12°る16'43	-1°19'34 1°18'24
morning rise	8228 Jan 18 01:40 8228 Jan 23 05:47	27° る 39′39		minimum elong asc. node	8228 Dec 31 02:11 8229 Jan 03 22:44	8° る 27'21	1 10 44
direct	8228 Jan 26 05:11	22° る 03'24		morning rise	8229 Jan 06 09:25	6°る53'13	
morning max el	8228 Feb 01 18:25	25° ප 35'03	18°27'13	direct	8229 Jan 09 00:12	6°る17'11	

evening set	8230 Nov 20 06:42	14° ∡ ¹25'50		min. Earth dist.	8231 Nov 05 22:28	23°M.55'52	0.59149 AU
min. Earth dist.	8230 Nov 23 23:29	11°×7'40'34	0.61238 AU	inferior conj	8231 Nov 09 03:06	21°M30'08	
inferior conj	8230 Nov 27 01:20	8° √ 59'13		minimum elong	8231 Nov 09 10:15	21°M16'29	
minimum elong	8230 Nov 27 08:01	8° х 44'33		morning rise	8231 Nov 17 00:50	16°M57'22	. 3, 2.
morning rise	8230 Dec 04 11:36	4° ₹ 04'10		direct	8231 Nov 19 06:50	16°M39'45	
direct	8230 Dec 06 16:54	3° ∡ ¹43'46		asc. node	8231 Nov 25 13:53	19° ™ 06'24	
asc. node	8230 Dec 08 16:51	4° ∡ 100'54		morning max el	8231 Nov 27 05:13	20°M32'23	18°22'30
morning max el	8230 Dec 13 19:18	7° ∡ 18'02	17°55'20	C	8231 Dec 04 08:16	0°⊀	
S	8230 Dec 28 10:15	8°0		morning set	8231 Dec 13 02:38	15° ∡ 54'07	
morning set	8230 Dec 29 11:32	1° る 55'22		C	8231 Dec 20 12:58	6°0	
superior conj	8231 Jan 08 21:54	20° る 38'40	0°25'52	superior conj	8231 Dec 22 05:58	3° ⋜ 09'26	0°57'43
minimum elong	8231 Jan 09 00:03	20° る 48'02	0°25'41	minimum elong	8231 Dec 22 09:22	3°₹25′03	0°57'25
desc. node	8231 Jan 12 10:21	26° ප් 41'14		max. Earth dist.	8231 Dec 29 19:01	16° ප 33'23	1.40693 AU
	8231 Jan 14 09:37	0° ≈		desc. node	8231 Dec 30 07:20	17° る 26'05	
max. Earth dist.	8231 Jan 16 09:39	3° ≈ 19′07	1.42683 AU	evening rise	8232 Jan 03 06:27	24° る 04'56	
evening rise	8231 Jan 22 15:42	13° ≈ 23'32			8232 Jan 06 22:02	0° ≈	
	8231 Feb 02 12:40	0° ∀			8232 Jan 27 09:56	0° ℋ	
evening max el	8231 Feb 24 00:52	28° ∺ 25′19	22°08'46	evening max el	8232 Feb 06 16:06	12°) (08′44	23°28'32
	8231 Feb 25 16:20	0 ° Υ		retrograde	8232 Feb 17 07:10	18°) €25'30	
retrograde	8231 Mar 05 12:41	4° Y 02'48		asc. node	8232 Feb 21 12:56	16° ¥ 57'32	
asc. node	8231 Mar 06 15:52	3° Ƴ 56'17		evening set	8232 Feb 22 08:40	16° 升 19′09	
evening set	8231 Mar 10 02:19	2° Y 11'17		min. Earth dist.	8232 Feb 27 05:41	10°) €37'05	0.68333 AU
	8231 Mar 12 06:28	30°Ŗ ℋ		inferior conj	8232 Feb 27 18:42	9° 升 52′26	1°55'25
inferior conj	8231 Mar 15 10:11	25° ¥ 50'42	2°31'54	minimum elong	8232 Feb 27 16:32	9° 升 59'50	1°54'45
minimum elong	8231 Mar 15 07:57	25°) 58′30	2°31'19	morning rise	8232 Mar 04 00:23	3°) 47′13	
min. Earth dist.	8231 Mar 15 08:59	25° ¥ 54'55	0.68402 AU	direct	8232 Mar 08 05:47	2° 升 07′26	
morning rise	8231 Mar 20 13:26	19°) 40′02		morning max el	8232 Mar 16 13:08		20°55'06
direct	8231 Mar 25 08:41	17°) € 37'41		desc. node	8232 Mar 27 07:00	20° 升 12′00	
morning max el	8231 Apr 03 20:15	23° ∺ 11'50	22°17'07		8232 Apr 03 02:47	0 ° $\mathbf{\Upsilon}$	
	8231 Apr 09 19:13	$0^{\circ}\Upsilon$		morning set	8232 Apr 15 17:21	19° Y 08'39	
desc. node	8231 Apr 10 10:03	0° Y 46'42			8232 Apr 22 13:23	0° 8	
	8231 Apr 30 18:34	0°8		max. Earth dist.	8232 Apr 23 15:56	1° 8 47'37	1.42913 AU
morning set	8231 May 07 06:40	10° 8 19'39					
max. Earth dist.	8231 May 12 11:30	18° 8 55'40	1.40903 AU	superior conj	8232 Apr 30 15:15	13° 8 21'23	
	8231 May 18 21:26	Π °0		minimum elong	8232 Apr 30 19:23	13° 8 38'53	2°06'17
		_			8232 May 10 05:05	Π $^{\circ}0$	
superior conj	8231 May 20 06:25		-1°46'46	evening rise	8232 May 12 10:44	3° ∏ 58'48	
minimum elong	8231 May 20 12:14	2° ∏ 52'31		asc. node	8232 May 19 11:51	16° Ⅲ 23′21	10005124
minimum elong evening rise	8231 May 20 12:14 8231 May 30 13:54	2° Д 52'31 21° Д 25'21		•	8232 May 19 11:51 8232 May 29 03:56	16° Ⅱ 23'21 0° © 09'18	18°05'34
minimum elong	8231 May 20 12:14 8231 May 30 13:54 8231 Jun 02 14:50	2°Д52'31 21°Д25'21 27°Д04'54		asc. node evening max el	8232 May 19 11:51 8232 May 29 03:56 8232 May 29 00:12	16° II 23'21 0°©09'18 0°©	18°05'34
minimum elong evening rise asc. node	8231 May 20 12:14 8231 May 30 13:54 8231 Jun 02 14:50 8231 Jun 04 05:04	2°II52'31 21°II25'21 27°II04'54 0°©	1°46'19	asc. node evening max el retrograde	8232 May 19 11:51 8232 May 29 03:56 8232 May 29 00:12 8232 Jun 04 18:25	16°II23'21 0°S09'18 0°S 3°S32'26	18°05'34
minimum elong evening rise asc. node evening max el	8231 May 20 12:14 8231 May 30 13:54 8231 Jun 02 14:50 8231 Jun 04 05:04 8231 Jun 15 16:14	2°II52'31 21°II25'21 27°II04'54 0°© 17°©08'36		asc. node evening max el	8232 May 19 11:51 8232 May 29 03:56 8232 May 29 00:12 8232 Jun 04 18:25 8232 Jun 07 08:40	16° II 23'21 0° 509'18 0° 55 3° 532'26 3° 500'59	18°05'34
minimum elong evening rise asc. node evening max el retrograde	8231 May 20 12:14 8231 May 30 13:54 8231 Jun 02 14:50 8231 Jun 04 05:04 8231 Jun 15 16:14 8231 Jun 22 22:27	2°П52'31 21°П25'21 27°П04'54 0°© 17°©08'36 20°©47'02	1°46'19	asc. node evening max el retrograde evening set	8232 May 19 11:51 8232 May 29 03:56 8232 May 29 00:12 8232 Jun 04 18:25 8232 Jun 07 08:40 8232 Jun 11 20:33	16°II23'21 0°S09'18 0°S 3°S32'26 3°S00'59 30°RII	
minimum elong evening rise asc. node evening max el retrograde evening set	8231 May 20 12:14 8231 May 30 13:54 8231 Jun 02 14:50 8231 Jun 04 05:04 8231 Jun 15 16:14 8231 Jun 22 22:27 8231 Jun 25 05:17	2° II 52'31 21° II 25'21 27° II 04'54 0° © 17° © 08'36 20° © 47'02 20° © 26'13	1°46'19 18°18'19	asc. node evening max el retrograde evening set inferior conj	8232 May 19 11:51 8232 May 29 03:56 8232 May 29 00:12 8232 Jun 04 18:25 8232 Jun 07 08:40 8232 Jun 11 20:33 8232 Jun 13 23:01	16°II23'21 0°S09'18 0°S 3°S32'26 3°S00'59 30°RII 28°II01'24	2°26'34
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj	8231 May 20 12:14 8231 May 30 13:54 8231 Jun 02 14:50 8231 Jun 04 05:04 8231 Jun 15 16:14 8231 Jun 22 22:27 8231 Jun 25 05:17 8231 Jul 02 12:31	2° II 52'31 21° II 25'21 27° II 04'54 0° © 17° © 08'36 20° © 47'02 20° © 26'13 15° © 46'44	1°46'19 18°18'19 1°23'45	asc. node evening max el retrograde evening set inferior conj minimum elong	8232 May 19 11:51 8232 May 29 03:56 8232 May 29 00:12 8232 Jun 04 18:25 8232 Jun 07 08:40 8232 Jun 11 20:33 8232 Jun 13 23:01 8232 Jun 14 02:01	16°II23'21 0°S09'18 0°S 3°S32'26 3°S00'59 30°RII 28°II01'24 27°II54'04	2°26'34 2°25'39
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	8231 May 20 12:14 8231 May 30 13:54 8231 Jun 02 14:50 8231 Jun 04 05:04 8231 Jun 15 16:14 8231 Jun 22 22:27 8231 Jun 25 05:17 8231 Jul 02 12:31 8231 Jul 02 15:06	2° II 52'31 21° II 25'21 27° II 04'54 0° © 17° © 08'36 20° © 47'02 20° © 26'13 15° © 46'44 15° © 44'18	1°46'19 18°18'19 1°23'45 1°22'44	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	8232 May 19 11:51 8232 May 29 03:56 8232 May 29 00:12 8232 Jun 04 18:25 8232 Jun 07 08:40 8232 Jun 11 20:33 8232 Jun 13 23:01 8232 Jun 14 02:01 8232 Jun 17 02:58	16°II23'21 0°S09'18 0°S 3°S32'26 3°S00'59 30°RII 28°II01'24 27°II54'04 24°II57'32	2°26'34
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	8231 May 20 12:14 8231 May 30 13:54 8231 Jun 02 14:50 8231 Jun 04 05:04 8231 Jun 15 16:14 8231 Jun 22 22:27 8231 Jun 25 05:17 8231 Jul 02 12:31 8231 Jul 02 15:06 8231 Jul 05 22:01	2° II 52'31 21° II 25'21 27° II 04'54 0° © 17° © 08'36 20° © 47'02 20° © 26'13 15° © 46'44 15° © 41'18 12° © 56'23	1°46'19 18°18'19 1°23'45	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8232 May 19 11:51 8232 May 29 03:56 8232 May 29 00:12 8232 Jun 04 18:25 8232 Jun 07 08:40 8232 Jun 11 20:33 8232 Jun 13 23:01 8232 Jun 14 02:01 8232 Jun 17 02:58 8232 Jun 20 17:01	16°II23'21 0°S09'18 0°S 3°S32'26 3°S00'59 30°RII 28°II01'24 27°II54'04 24°II57'32 22°II03'22	2°26'34 2°25'39
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node	8231 May 20 12:14 8231 May 30 13:54 8231 Jun 02 14:50 8231 Jun 04 05:04 8231 Jun 15 16:14 8231 Jun 22 22:27 8231 Jun 25 05:17 8231 Jul 02 12:31 8231 Jul 02 15:06 8231 Jul 05 22:01 8231 Jul 07 09:26	2° II 52'31 21° II 25'21 27° II 04'54 0° © 17° © 08'36 20° © 47'02 20° © 26'13 15° © 46'44 15° © 41'18 12° © 56'23 11° © 48'49	1°46'19 18°18'19 1°23'45 1°22'44	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	8232 May 19 11:51 8232 May 29 03:56 8232 May 29 00:12 8232 Jun 04 18:25 8232 Jun 07 08:40 8232 Jun 11 20:33 8232 Jun 13 23:01 8232 Jun 14 02:01 8232 Jun 17 02:58 8232 Jun 20 17:01 8232 Jun 23 06:29	16°H23'21 0°\$09'18 0°\$ 3°\$32'26 3°\$00'59 30°RH 28°H01'24 27°H54'04 24°H57'32 22°H03'22 20°H39'56	2°26'34 2°25'39
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise	8231 May 20 12:14 8231 May 30 13:54 8231 Jun 02 14:50 8231 Jun 04 05:04 8231 Jun 15 16:14 8231 Jun 22 22:27 8231 Jun 25 05:17 8231 Jul 02 12:31 8231 Jul 02 15:06 8231 Jul 05 22:01 8231 Jul 07 09:26 8231 Jul 09 21:42	2°II 52'31 21°II 25'21 27°II 04'54 0°S 17°S 08'36 20°S 47'02 20°S 26'13 15°S 46'44 15°S 41'18 12°S 56'23 11°S 48'49 10°S 12'16	1°46'19 18°18'19 1°23'45 1°22'44	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	8232 May 19 11:51 8232 May 29 03:56 8232 May 29 00:12 8232 Jun 04 18:25 8232 Jun 07 08:40 8232 Jun 11 20:33 8232 Jun 13 23:01 8232 Jun 14 02:01 8232 Jun 17 02:58 8232 Jun 20 17:01 8232 Jun 23 06:29 8232 Jun 27 08:33	16°H23'21 0°\$09'18 0°\$ 3°\$32'26 3°\$00'59 30°RH 28°H01'24 27°H54'04 24°H57'32 22°H03'22 20°H39'56 19°H49'33	2°26'34 2°25'39 0.61095 AU
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct	8231 May 20 12:14 8231 May 30 13:54 8231 Jun 02 14:50 8231 Jun 04 05:04 8231 Jun 15 16:14 8231 Jun 22 22:27 8231 Jun 25 05:17 8231 Jul 02 12:31 8231 Jul 02 12:31 8231 Jul 05 22:01 8231 Jul 07 09:26 8231 Jul 09 21:42 8231 Jul 06 02:52	2°II 52'31 21°II 25'21 27°II 04'54 0°5 17°508'36 20°547'02 20°526'13 15°546'44 15°541'18 12°556'23 11°548'49 10°512'16 8°528'32	1°46'19 18°18'19 1°23'45 1°22'44 0.58854 AU	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	8232 May 19 11:51 8232 May 29 03:56 8232 May 29 00:12 8232 Jun 04 18:25 8232 Jun 07 08:40 8232 Jun 11 20:33 8232 Jun 13 23:01 8232 Jun 14 02:01 8232 Jun 17 02:58 8232 Jun 20 17:01 8232 Jun 23 06:29 8232 Jun 27 08:33 8232 Jul 11 15:02	16°H23'21 0°\$09'18 0°\$ 3°\$32'26 3°\$30'59 30°RH 28°H01'24 27°H54'04 24°H57'32 22°H03'22 20°H39'56 19°H49'33 27°H48'50	2°26'34 2°25'39 0.61095 AU
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise	8231 May 20 12:14 8231 May 30 13:54 8231 Jun 02 14:50 8231 Jun 04 05:04 8231 Jun 15 16:14 8231 Jun 22 22:27 8231 Jun 25 05:17 8231 Jul 02 12:31 8231 Jul 02 15:06 8231 Jul 05 22:01 8231 Jul 07 09:26 8231 Jul 09 21:42 8231 Jul 16 02:52 8231 Jul 30 11:59	2°II 52'31 21°II 25'21 27°II 04'54 0°5 17°508'36 20°547'02 20°526'13 15°546'44 15°541'18 12°556'23 11°548'49 10°512'16 8°528'32 16°514'51	1°46'19 18°18'19 1°23'45 1°22'44 0.58854 AU	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	8232 May 19 11:51 8232 May 29 03:56 8232 May 29 00:12 8232 Jun 04 18:25 8232 Jun 07 08:40 8232 Jun 11 20:33 8232 Jun 13 23:01 8232 Jun 14 02:01 8232 Jun 17 02:58 8232 Jun 20 17:01 8232 Jun 20 17:01 8232 Jun 27 08:33 8232 Jun 11 15:02 8232 Jul 13 17:25	16°H23'21 0°\$09'18 0°\$ 3°\$32'26 3°\$30'59 30°RH 28°H01'24 27°H54'04 24°H57'32 22°H03'22 20°H39'56 19°H49'33 27°H48'50 0°\$	2°26'34 2°25'39 0.61095 AU
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct	8231 May 20 12:14 8231 May 30 13:54 8231 Jun 02 14:50 8231 Jun 04 05:04 8231 Jun 15 16:14 8231 Jun 22 22:27 8231 Jun 25 05:17 8231 Jul 02 12:31 8231 Jul 02 12:31 8231 Jul 05 22:01 8231 Jul 07 09:26 8231 Jul 09 21:42 8231 Jul 16 02:52 8231 Jul 30 11:59 8231 Aug 10 18:15	2° II 52'31 21° II 25'21 27° II 04'54 0° 5 17° 508'36 20° 547'02 20° 526'13 15° 546'44 15° 541'18 12° 556'23 11° 548'49 10° 512'16 8° 528'32 16° 514'51 0° \$\alpha\$	1°46'19 18°18'19 1°23'45 1°22'44 0.58854 AU	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	8232 May 19 11:51 8232 May 29 03:56 8232 May 29 00:12 8232 Jun 04 18:25 8232 Jun 07 08:40 8232 Jun 11 20:33 8232 Jun 13 23:01 8232 Jun 14 02:01 8232 Jun 17 02:58 8232 Jun 20 17:01 8232 Jun 23 06:29 8232 Jun 27 08:33 8232 Jul 11 15:02 8232 Jul 13 17:25 8232 Aug 03 12:24	16° II 23'21 0° © 09'18 0° © 3° © 32'26 3° © 30'59 30° R II 28° II 01'24 27° II 54'04 24° II 57'32 22° II 03'22 20° II 39'56 19° II 49'33 27° II 48'50 0° € 0° €	2°26'34 2°25'39 0.61095 AU
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el	8231 May 20 12:14 8231 May 30 13:54 8231 Jun 02 14:50 8231 Jun 04 05:04 8231 Jun 15 16:14 8231 Jun 22 22:27 8231 Jun 25 05:17 8231 Jul 02 12:31 8231 Jul 02 12:31 8231 Jul 05 22:01 8231 Jul 07 09:26 8231 Jul 09 21:42 8231 Jul 16 02:52 8231 Jul 30 11:59 8231 Aug 10 18:15 8231 Aug 28 00:48	2° II 52'31 21° II 25'21 27° II 04'54 0° 5 17° 508'36 20° 547'02 20° 526'13 15° 546'44 15° 541'18 12° 556'23 11° 548'49 10° 512'16 8° 528'32 16° 514'51 0° N 0° III	1°46'19 18°18'19 1°23'45 1°22'44 0.58854 AU	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	8232 May 19 11:51 8232 May 29 03:56 8232 May 29 00:12 8232 Jun 04 18:25 8232 Jun 07 08:40 8232 Jun 11 20:33 8232 Jun 13 23:01 8232 Jun 14 02:01 8232 Jun 17 02:58 8232 Jun 20 17:01 8232 Jun 23 06:29 8232 Jun 27 08:33 8232 Jul 11 15:02 8232 Jul 13 17:25 8232 Aug 03 12:24 8232 Aug 13 14:47	16° \$\Pi 23'21\$ 0° \$\Sigma 09'18\$ 0° \$\Sigma 3° \$\Sigma 32'26\$ 3° \$\Sigma 00'59\$ 30° \$\R \$\Pi\$ 28° \$\Pi 01'24\$ 27° \$\Pi 54'04\$ 24° \$\Pi 57'32\$ 22° \$\Pi 03'22\$ 20° \$\Pi 39'56\$ 19° \$\Pi 49'33\$ 27° \$\Pi 48'50\$ 0° \$\Rightarrow \Rightarrow	2°26'34 2°25'39 0.61095 AU
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node	8231 May 20 12:14 8231 May 30 13:54 8231 Jun 02 14:50 8231 Jun 04 05:04 8231 Jun 15 16:14 8231 Jun 22 22:27 8231 Jun 25 05:17 8231 Jul 02 12:31 8231 Jul 02 12:31 8231 Jul 05 22:01 8231 Jul 07 09:26 8231 Jul 09 21:42 8231 Jul 16 02:52 8231 Jul 30 11:59 8231 Aug 10 18:15 8231 Aug 28 00:48 8231 Aug 29 14:19	2° II 52'31 21° II 25'21 27° II 04'54 0° 50 17° 508'36 20° 547'02 20° 526'13 15° 546'44 15° 541'18 12° 556'23 11° 548'49 10° 512'16 8° 528'32 16° 514'51 0° \$\hat{O}\$ 0° III 3° III 12'50	1°46'19 18°18'19 1°23'45 1°22'44 0.58854 AU	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	8232 May 19 11:51 8232 May 29 03:56 8232 May 29 00:12 8232 Jun 04 18:25 8232 Jun 07 08:40 8232 Jun 11 20:33 8232 Jun 13 23:01 8232 Jun 14 02:01 8232 Jun 17 02:58 8232 Jun 20 17:01 8232 Jun 23 06:29 8232 Jun 27 08:33 8232 Jul 11 15:02 8232 Jul 13 17:25 8232 Aug 03 12:24 8232 Aug 13 14:47 8232 Aug 15 11:15	16° Π23'21 0° © 09'18 0° © 3° © 32'26 3° © 00'59 30° R Π 28° Π01'24 27° Π54'04 24° П57'32 22° П03'22 20° П39'56 19° П49'33 27° П48'50 0° © 0° Ω 19° Ω19'39 23° Ω11'45	2°26'34 2°25'39 0.61095 AU
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set	8231 May 20 12:14 8231 May 30 13:54 8231 Jun 02 14:50 8231 Jun 04 05:04 8231 Jun 15 16:14 8231 Jun 22 22:27 8231 Jun 25 05:17 8231 Jul 02 12:31 8231 Jul 02 12:31 8231 Jul 05 22:01 8231 Jul 07 09:26 8231 Jul 09 21:42 8231 Jul 16 02:52 8231 Jul 30 11:59 8231 Aug 10 18:15 8231 Aug 28 00:48 8231 Aug 29 14:19 8231 Aug 30 11:03	2° \$\mathbb{T} 52'31 21° \$\mathbb{T} 25'21 27° \$\mathbb{T} 04'54 0° \$\mathbb{G}\$ 17° \$\mathbb{G} 08'36 20° \$\mathbb{G} 4'02 20° \$\mathbb{G} 26'13 15° \$\mathbb{G} 46'44 15° \$\mathbb{G} 41'18 12° \$\mathbb{G} 56'23 11° \$\mathbb{G} 48'49 10° \$\mathbb{G} 12'16 8° \$\mathbb{G} 28'32 16° \$\mathbb{G} 14'51 0° \$\mathbb{A} 0° \$\mathbb{M} 3° \$\mathbb{M} 12'50 5° \$\mathbb{M} 01'15	1°46'19 18°18'19 1°23'45 1°22'44 0.58854 AU 27°21'34	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node	8232 May 19 11:51 8232 May 29 03:56 8232 May 29 00:12 8232 Jun 04 18:25 8232 Jun 07 08:40 8232 Jun 11 20:33 8232 Jun 13 23:01 8232 Jun 14 02:01 8232 Jun 17 02:58 8232 Jun 20 17:01 8232 Jun 20 17:01 8232 Jun 27 08:33 8232 Jun 17:02 8232 Jun 17:02 8232 Jun 17:02 8232 Jun 17:02 8232 Jun 18:15:02 8232 Jun 18:15:24 8232 Aug 18:15:21	16° H23'21 0° 509'18 0° 53 3° 532'26 3° 500'59 30° R H 28° H01'24 27° H54'04 24° H57'32 22° H03'22 20° H39'56 19° H49'33 27° H48'50 0° 50 0° \$\Omega\$ 19° \$\Omega\$ 11'45 0° \$\Omega\$	2°26'34 2°25'39 0.61095 AU 27°53'35
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node	8231 May 20 12:14 8231 May 30 13:54 8231 Jun 02 14:50 8231 Jun 04 05:04 8231 Jun 15 16:14 8231 Jun 22 22:27 8231 Jun 25 05:17 8231 Jul 02 12:31 8231 Jul 02 12:31 8231 Jul 05 22:01 8231 Jul 07 09:26 8231 Jul 09 21:42 8231 Jul 16 02:52 8231 Jul 30 11:59 8231 Aug 10 18:15 8231 Aug 28 00:48 8231 Aug 29 14:19	2° II 52'31 21° II 25'21 27° II 04'54 0° 50 17° 508'36 20° 547'02 20° 526'13 15° 546'44 15° 541'18 12° 556'23 11° 548'49 10° 512'16 8° 528'32 16° 514'51 0° \$\hat{O}\$ 0° III 3° III 12'50	1°46'19 18°18'19 1°23'45 1°22'44 0.58854 AU	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	8232 May 19 11:51 8232 May 29 03:56 8232 May 29 00:12 8232 Jun 04 18:25 8232 Jun 07 08:40 8232 Jun 11 20:33 8232 Jun 13 23:01 8232 Jun 14 02:01 8232 Jun 17 02:58 8232 Jun 20 17:01 8232 Jun 23 06:29 8232 Jun 27 08:33 8232 Jul 11 15:02 8232 Jul 13 17:25 8232 Aug 03 12:24 8232 Aug 13 14:47 8232 Aug 15 11:15	16° Π23'21 0° © 09'18 0° © 3° © 32'26 3° © 00'59 30° R Π 28° Π01'24 27° Π54'04 24° П57'32 22° П03'22 20° П39'56 19° П49'33 27° П48'50 0° © 0° Ω 19° Ω19'39 23° Ω11'45	2°26'34 2°25'39 0.61095 AU
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set asc. node	8231 May 20 12:14 8231 May 30 13:54 8231 Jun 02 14:50 8231 Jun 04 05:04 8231 Jun 15 16:14 8231 Jun 22 22:27 8231 Jun 25 05:17 8231 Jul 02 12:31 8231 Jul 02 12:31 8231 Jul 05 22:01 8231 Jul 07 09:26 8231 Jul 09 21:42 8231 Jul 16 02:52 8231 Jul 30 11:59 8231 Aug 10 18:15 8231 Aug 20 14:19 8231 Aug 30 11:03 8231 Sep 06 03:03	2° II 52'31 21° II 25'21 27° II 04'54 0° 55 17° 508'36 20° 526'13 15° 526'23 11° 526'23 11° 526'23 11° 528'32 16° 512'16 8° 528'32 16° 514'51 0° N 0° ID 3° ID 12'50 5° ID 11'5	1°46'19 18°18'19 1°23'45 1°22'44 0.58854 AU 27°21'34	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist.	8232 May 19 11:51 8232 May 29 03:56 8232 May 29 00:12 8232 Jun 04 18:25 8232 Jun 07 08:40 8232 Jun 11 20:33 8232 Jun 13 23:01 8232 Jun 14 02:01 8232 Jun 17 02:58 8232 Jun 20 17:01 8232 Jun 23 06:29 8232 Jun 27 08:33 8232 Jul 11 15:02 8232 Jul 13 17:25 8232 Aug 03 12:24 8232 Aug 13 14:47 8232 Aug 15 11:15 8232 Aug 19 12:00	16°H23'21 0°\$09'18 0°\$ 3°\$32'26 3°\$00'59 30°RH 28°H01'24 27°H54'04 24°H57'32 22°H03'22 20°H39'56 19°H49'33 27°H48'50 0°\$ 0°\$ 19°\$\Omega\$11'45 0°\$\Omega\$1"\$\Omega\$52'40	2°26'34 2°25'39 0.61095 AU 27°53'35
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set max. Earth dist.	8231 May 20 12:14 8231 May 30 13:54 8231 Jun 02 14:50 8231 Jun 04 05:04 8231 Jun 15 16:14 8231 Jun 22 22:27 8231 Jun 25 05:17 8231 Jul 02 12:31 8231 Jul 02 12:31 8231 Jul 02 15:06 8231 Jul 05 22:01 8231 Jul 07 09:26 8231 Jul 09 21:42 8231 Jul 16 02:52 8231 Jul 30 11:59 8231 Aug 10 18:15 8231 Aug 28 00:48 8231 Aug 29 14:19 8231 Aug 30 11:03 8231 Sep 06 03:03	2° II 52'31 21° II 25'21 27° II 04'54 0° 55 17° 508'36 20° 547'02 20° 526'13 15° 546'44 15° 56'23 11° 548'49 10° 512'16 8° 528'32 16° 514'51 0° N 3° ID 12'50 5° ID 01'15 19° ID 31'19	1°46'19 18°18'19 1°23'45 1°22'44 0.58854 AU 27°21'34 1.31654 AU 1°12'59	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj	8232 May 19 11:51 8232 May 29 03:56 8232 May 29 00:12 8232 Jun 04 18:25 8232 Jun 07 08:40 8232 Jun 11 20:33 8232 Jun 13 23:01 8232 Jun 14 02:01 8232 Jun 17 02:58 8232 Jun 20 17:01 8232 Jun 23 06:29 8232 Jun 27 08:33 8232 Jun 11 15:02 8232 Jul 13 17:25 8232 Aug 03 12:24 8232 Aug 13 14:47 8232 Aug 15 11:15 8232 Aug 18 15:21 8232 Aug 19 12:00	16°H23'21 0°\$09'18 0°\$ 3°\$32'26 3°\$30'59 30°RH 28°H01'24 27°H54'04 24°H57'32 22°H03'22 20°H39'56 19°H49'33 27°H48'50 0°\$ 0°\$ 19°\$\Omega\$19'39 23°\$\Omega\$11'45 0°\$\Omega\$1 \text{"M} 52'40 5°\$\Omega\$03'29	2°26'34 2°25'39 0.61095 AU 27°53'35
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set asc. node	8231 May 20 12:14 8231 May 30 13:54 8231 Jun 02 14:50 8231 Jun 04 05:04 8231 Jun 15 16:14 8231 Jun 22 22:27 8231 Jun 25 05:17 8231 Jul 02 12:31 8231 Jul 02 12:31 8231 Jul 05 22:01 8231 Jul 07 09:26 8231 Jul 07 09:26 8231 Jul 09 21:42 8231 Jul 16 02:52 8231 Jul 30 11:59 8231 Aug 10 18:15 8231 Aug 28 00:48 8231 Aug 29 14:19 8231 Aug 30 11:03 8231 Sep 06 03:03	2° II 52'31 21° II 25'21 27° II 04'54 0° 56 17° 508'36 20° 526'13 15° 546'44 15° 541'18 12° 556'23 11° 548'49 10° 512'16 8° 528'32 16° 514'51 0° N 3° ID 12'50 5° ID 01'15 19° ID 31'19 20° ID 21'36 20° ID 09'08	1°46'19 18°18'19 1°23'45 1°22'44 0.58854 AU 27°21'34	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong	8232 May 19 11:51 8232 May 29 03:56 8232 May 29 00:12 8232 Jun 04 18:25 8232 Jun 07 08:40 8232 Jun 11 20:33 8232 Jun 13 23:01 8232 Jun 14 02:01 8232 Jun 17 02:58 8232 Jun 20 17:01 8232 Jun 20 17:01 8232 Jun 20 6:29 8232 Jun 27 08:33 8232 Jul 11 15:02 8232 Jul 13 17:25 8232 Aug 03 12:24 8232 Aug 13 14:47 8232 Aug 15 11:15 8232 Aug 18 15:21 8232 Aug 19 12:00 8232 Aug 20 22:45 8232 Aug 20 20:42	16°H23'21 0°\$09'18 0°\$ 3°\$32'26 3°\$30'59 30°RH 28°H01'24 27°H54'04 24°H57'32 22°H03'22 20°H39'56 19°H49'33 27°H48'50 0°\$ 0°\$ 19°\$\O19'39 23°\$\O11'45 0°\$\O19'\$ 1°\$\O21'40 5°\$\O3'29 4°\$\O3'29 4°\$\O3'29	2°26'34 2°25'39 0.61095 AU 27°53'35
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong	8231 May 20 12:14 8231 May 30 13:54 8231 Jun 02 14:50 8231 Jun 04 05:04 8231 Jun 15 16:14 8231 Jun 22 22:27 8231 Jun 25 05:17 8231 Jul 02 12:31 8231 Jul 02 12:31 8231 Jul 05 22:01 8231 Jul 07 09:26 8231 Jul 07 09:26 8231 Jul 09 21:42 8231 Jul 16 02:52 8231 Jul 30 11:59 8231 Aug 10 18:15 8231 Aug 28 00:48 8231 Aug 29 14:19 8231 Aug 30 11:03 8231 Sep 06 03:03 8231 Sep 06 09:52 8231 Sep 10 20:49	2° II 52'31 21° II 25'21 27° II 04'54 0° 56 17° 508'36 20° 54'02 20° 526'13 15° 546'44 15° 56'23 11° 548'49 10° 512'16 8° 528'32 16° 514'51 0° N 3° IN 12'50 5° IN 01'15 19° IN 31'19 20° IN 21'36 20° IN 09'08 0° £	1°46'19 18°18'19 1°23'45 1°22'44 0.58854 AU 27°21'34 1.31654 AU 1°12'59	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj	8232 May 19 11:51 8232 May 29 03:56 8232 May 29 00:12 8232 Jun 04 18:25 8232 Jun 07 08:40 8232 Jun 11 20:33 8232 Jun 13 23:01 8232 Jun 14 02:01 8232 Jun 17 02:58 8232 Jun 20 17:01 8232 Jun 20 17:01 8232 Jun 20 6:29 8232 Jun 27 08:33 8232 Jul 11 15:02 8232 Jul 13 17:25 8232 Aug 03 12:24 8232 Aug 13 14:47 8232 Aug 15 11:15 8232 Aug 18 15:21 8232 Aug 19 12:00 8232 Aug 20 22:45 8232 Aug 20 20:42 8232 Aug 27 17:14	16° H23'21 0° \$09'18 0° \$3° \$32'26 3° \$30'59 30° RH 28° H01'24 27° H54'04 24° H57'32 22° H03'22 20° H39'56 19° H49'33 27° H48'50 0° \$6 19° \$019'39 23° \$011'45 0° \$m 1° \$m 52'40 5° \$m 03'29 4° \$m 52'08 19° \$m 53'29	2°26'34 2°25'39 0.61095 AU 27°53'35
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set max. Earth dist.	8231 May 20 12:14 8231 May 30 13:54 8231 Jun 02 14:50 8231 Jun 04 05:04 8231 Jun 15 16:14 8231 Jun 22 22:27 8231 Jun 25 05:17 8231 Jul 02 12:31 8231 Jul 02 12:31 8231 Jul 05 22:01 8231 Jul 07 09:26 8231 Jul 07 09:26 8231 Jul 09 21:42 8231 Jul 16 02:52 8231 Jul 30 11:59 8231 Aug 10 18:15 8231 Aug 20 14:19 8231 Aug 29 14:19 8231 Aug 30 11:03 8231 Sep 06 03:03 8231 Sep 06 09:52 8231 Sep 10 20:49 8231 Sep 13 06:34	2° II 52'31 21° II 25'21 27° II 04'54 0° 55 17° 508'36 20° 526'13 15° 526'23 11° 526'23 11° 528'32 16° 512'16 8° 528'32 16° 514'51 0° N 3° IN 12'50 5° IN 01'15 19° IN 31'19 20° IN 21'36 20° IN 09'08 0° £ 5° £11'45	1°46'19 18°18'19 1°23'45 1°22'44 0.58854 AU 27°21'34 1.31654 AU 1°12'59	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise	8232 May 19 11:51 8232 May 29 03:56 8232 May 29 00:12 8232 Jun 04 18:25 8232 Jun 07 08:40 8232 Jun 11 20:33 8232 Jun 13 23:01 8232 Jun 14 02:01 8232 Jun 17 02:58 8232 Jun 20 17:01 8232 Jun 23 06:29 8232 Jun 27 08:33 8232 Jul 11 15:02 8232 Jul 13 17:25 8232 Aug 03 12:24 8232 Aug 13 14:47 8232 Aug 15 11:15 8232 Aug 18 15:21 8232 Aug 19 12:00 8232 Aug 20 22:45 8232 Aug 20 20:42 8232 Aug 27 17:14 8232 Sep 01 14:25	16° H23'21 0° \$09'18 0° \$3' \$32'26 3° \$32'26 3° \$30'59 30° RH 28° H01'24 27° H54'04 24° H57'32 22° H03'22 20° H39'56 19° H49'33 27° H48'50 0° \$6 0° \$0 19° \$019'39 23° \$011'45 0° \$m 1° \$m\$52'40 5° \$m\$03'29 4° \$m\$52'08 19° \$m\$53'29 0° \$\mathref{\textit{0}}\$	2°26'34 2°25'39 0.61095 AU 27°53'35
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise	8231 May 20 12:14 8231 May 30 13:54 8231 Jun 02 14:50 8231 Jun 04 05:04 8231 Jun 15 16:14 8231 Jun 22 22:27 8231 Jun 25 05:17 8231 Jul 02 12:31 8231 Jul 02 12:31 8231 Jul 05 22:01 8231 Jul 07 09:26 8231 Jul 09 21:42 8231 Jul 09 21:42 8231 Jul 16 02:52 8231 Jul 30 11:59 8231 Aug 10 18:15 8231 Aug 20 14:19 8231 Aug 20 14:19 8231 Aug 30 11:03 8231 Sep 06 03:03 8231 Sep 06 09:52 8231 Sep 10 20:49 8231 Sep 13 06:34 8231 Sep 26 06:52	2° I 52'31 21° I 25'21 27° I 04'54 0° 5 17° 508'36 20° 547'02 20° 526'13 15° 546'44 15° 541'18 12° 556'23 11° 548'49 10° 512'16 8° 528'32 16° 514'51 0° R 0° ID 3° ID 12'50 5° ID 01'15 19° ID 31'19 20° ID 21'36 20° ID 09'08 0° 5 5° 511'45 0° IL	1°46'19 18°18'19 1°23'45 1°22'44 0.58854 AU 27°21'34 1.31654 AU 1°12'59	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong	8232 May 19 11:51 8232 May 29 03:56 8232 May 29 00:12 8232 Jun 04 18:25 8232 Jun 07 08:40 8232 Jun 11 20:33 8232 Jun 13 23:01 8232 Jun 14 02:01 8232 Jun 17 02:58 8232 Jun 20 17:01 8232 Jun 23 06:29 8232 Jun 27 08:33 8232 Jul 11 15:02 8232 Jul 13 17:25 8232 Aug 03 12:24 8232 Aug 13 14:47 8232 Aug 15 11:15 8232 Aug 15 11:15 8232 Aug 18 15:21 8232 Aug 19 12:00 8232 Aug 20 22:45 8232 Aug 20 20:42 8232 Aug 27 17:14 8232 Sep 01 14:25 8232 Sep 19 05:21	16° II 23'21 0° © 09'18 0° © 3° © 32'26 3° © 30'59 30° RII 28° II 01'24 27° II 54'04 24° II 57'32 22° II 03'22 20° II 39'56 19° II 49'33 27° II 48'50 0° © 0° N 19° N 19'39 23° N 11'45 0° M 1° M 52'40 5° M 03'29 4° M 52'08 19° M 53'29 0° Ω 28° Ω 00'34	2°26'34 2°25'39 0.61095 AU 27°53'35
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node	8231 May 20 12:14 8231 May 30 13:54 8231 Jun 02 14:50 8231 Jun 04 05:04 8231 Jun 15 16:14 8231 Jun 22 22:27 8231 Jun 25 05:17 8231 Jul 02 12:31 8231 Jul 02 12:31 8231 Jul 05 22:01 8231 Jul 07 09:26 8231 Jul 09 21:42 8231 Jul 16 02:52 8231 Jul 16 02:52 8231 Jul 30 11:59 8231 Aug 10 18:15 8231 Aug 20 14:19 8231 Aug 29 14:19 8231 Aug 30 11:03 8231 Sep 06 03:03 8231 Sep 06 09:52 8231 Sep 10 20:49 8231 Sep 10 20:49 8231 Sep 26 06:52 8231 Oct 03 08:16	2° I 52'31 21° I 25'21 27° I 04'54 0° I 7° I 08'36 20° I 26'13 15° I 26'13 15° I 26'13 11° I 26'23 11° I 26'28'32 16° I 26'16 8° I 26'23 16° I 26'16 8° I 26'23 16° I 26'21 16	1°46'19 18°18'19 1°23'45 1°22'44 0.58854 AU 27°21'34 1.31654 AU 1°12'59	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node	8232 May 19 11:51 8232 May 29 03:56 8232 May 29 00:12 8232 Jun 04 18:25 8232 Jun 07 08:40 8232 Jun 11 20:33 8232 Jun 13 23:01 8232 Jun 14 02:01 8232 Jun 17 02:58 8232 Jun 20 17:01 8232 Jun 23 06:29 8232 Jun 27 08:33 8232 Jul 13 17:25 8232 Jul 13 17:25 8232 Jul 13 17:25 8232 Aug 03 12:24 8232 Aug 13 14:47 8232 Aug 15 11:15 8232 Aug 18 15:21 8232 Aug 19 12:00 8232 Aug 20 22:45 8232 Aug 20 20:42 8232 Aug 27 17:14 8232 Sep 01 14:25 8232 Sep 19 05:21 8232 Sep 21 00:08	16° H23'21 0° \$09'18 0° \$3' \$32'26 3° \$32'26 3° \$30'59 30° RH 28° H01'24 27° H54'04 24° H57'32 22° H03'22 20° H39'56 19° H49'33 27° H48'50 0° \$6 0° \$0 19° \$019'39 23° \$011'45 0° \$m 1° \$m\$52'40 5° \$m\$03'29 4° \$m\$52'08 19° \$m\$53'29 0° \$\mathref{\textit{0}}\$	2°26'34 2°25'39 0.61095 AU 27°53'35
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node evening max el	8231 May 20 12:14 8231 May 30 13:54 8231 Jun 02 14:50 8231 Jun 04 05:04 8231 Jun 15 16:14 8231 Jun 22 22:27 8231 Jun 25 05:17 8231 Jul 02 12:31 8231 Jul 02 12:31 8231 Jul 05 22:01 8231 Jul 07 09:26 8231 Jul 09 21:42 8231 Jul 16 02:52 8231 Jul 30 11:59 8231 Aug 10 18:15 8231 Aug 28 00:48 8231 Aug 29 14:19 8231 Aug 30 11:03 8231 Sep 06 03:03 8231 Sep 06 09:52 8231 Sep 10 20:49 8231 Sep 13 06:34 8231 Sep 26 06:52 8231 Oct 03 08:16 8231 Oct 12 09:10	2° I 52'31 21° I 25'21 27° I 04'54 0° I 7° I 04'54 0° I 7° I 08'36 20° I 7° I 08'36 20° I 18' I	1°46'19 18°18'19 1°23'45 1°22'44 0.58854 AU 27°21'34 1.31654 AU 1°12'59 1°12'37	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node evening max el	8232 May 19 11:51 8232 May 29 03:56 8232 May 29 00:12 8232 Jun 04 18:25 8232 Jun 07 08:40 8232 Jun 11 20:33 8232 Jun 13 23:01 8232 Jun 14 02:01 8232 Jun 17 02:58 8232 Jun 20 17:01 8232 Jun 23 06:29 8232 Jun 27 08:33 8232 Jul 13 17:25 8232 Jul 13 17:25 8232 Jul 13 17:25 8232 Aug 03 12:24 8232 Aug 13 14:47 8232 Aug 15 11:15 8232 Aug 18 15:21 8232 Aug 19 12:00 8232 Aug 20 22:45 8232 Aug 20 20:42 8232 Aug 27 17:14 8232 Sep 01 14:25 8232 Sep 19 05:21 8232 Sep 21 00:08 8232 Sep 23 01:18	16° H23'21 0° \$09'18 0° \$3° \$32'26 3° \$32'26 3° \$30'59 30° RH 28° H01'24 22° H34'04 24° H57'32 22° H03'22 20° H39'56 19° H49'33 27° H48'50 0° \$0° \$0\$ 19° \$019'39 23° \$011'45 0° \$0\$ 1° \$052'40 5° \$03'29 4° \$052'08 19° \$052'08 19° \$053'29 0° \$0\$ 28° \$00'34 0° \$0\$ 2° \$00'34 0° \$0\$	2°26'34 2°25'39 0.61095 AU 27°53'35 1.31862 AU 0°53'22 0°52'55
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node	8231 May 20 12:14 8231 May 30 13:54 8231 Jun 02 14:50 8231 Jun 04 05:04 8231 Jun 15 16:14 8231 Jun 22 22:27 8231 Jun 25 05:17 8231 Jul 02 12:31 8231 Jul 02 12:31 8231 Jul 05 22:01 8231 Jul 07 09:26 8231 Jul 09 21:42 8231 Jul 16 02:52 8231 Jul 16 02:52 8231 Jul 30 11:59 8231 Aug 10 18:15 8231 Aug 20 14:19 8231 Aug 29 14:19 8231 Aug 30 11:03 8231 Sep 06 03:03 8231 Sep 06 09:52 8231 Sep 10 20:49 8231 Sep 10 20:49 8231 Sep 26 06:52 8231 Oct 03 08:16	2° I 52'31 21° I 25'21 27° I 04'54 0° I 7° I 08'36 20° I 26'13 15° I 26'13 15° I 26'13 11° I 26'23 11° I 26'28'32 16° I 26'16 8° I 26'23 16° I 26'16 8° I 26'23 16° I 26'21 16	1°46'19 18°18'19 1°23'45 1°22'44 0.58854 AU 27°21'34 1.31654 AU 1°12'59 1°12'37	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node	8232 May 19 11:51 8232 May 29 03:56 8232 May 29 00:12 8232 Jun 04 18:25 8232 Jun 07 08:40 8232 Jun 11 20:33 8232 Jun 13 23:01 8232 Jun 14 02:01 8232 Jun 17 02:58 8232 Jun 20 17:01 8232 Jun 23 06:29 8232 Jun 27 08:33 8232 Jul 13 17:25 8232 Jul 13 17:25 8232 Jul 13 17:25 8232 Aug 03 12:24 8232 Aug 13 14:47 8232 Aug 15 11:15 8232 Aug 18 15:21 8232 Aug 19 12:00 8232 Aug 20 22:45 8232 Aug 20 20:42 8232 Aug 27 17:14 8232 Sep 01 14:25 8232 Sep 19 05:21 8232 Sep 21 00:08	16° II 23'21 0° 509'18 0° 53 3° 532'26 3° 500'59 30° RII 28° II 01'24 27° II 54'04 24° II 57'32 22° II 03'22 20° II 39'56 19° II 49'33 27° II 48'50 0° 50 0° 10 19° 11'45 0° II 1'45 0° II	2°26'34 2°25'39 0.61095 AU 27°53'35 1.31862 AU 0°53'22 0°52'55

i E d li d	0000 0 4 17 10 45	50 M 00145	0.53130 ATT		0222 G 10 01 04	100 0 0012 (
min. Earth dist.	8232 Oct 17 12:45		0.57170 AU	retrograde	8233 Sep 18 01:04	19° ₽ 08'36	
inferior conj	8232 Oct 20 09:15	3°M16'29		evening set	8233 Sep 22 05:56	18° £ 29'58	0.55606.433
minimum elong	8232 Oct 20 13:23	3° ™ 09'37	5°24'43	min. Earth dist.	8233 Sep 28 22:27		0.55606 AU
	8232 Oct 26 00:34	30°Ŗ 죠		inferior conj	8233 Sep 30 19:25	14° ≙ 15'32	
morning rise	8232 Oct 28 15:15	29° ≏ 06'42		minimum elong	8233 Sep 30 16:36	14° ≙ 19'42	5°31'11
direct	8232 Oct 31 02:39	28° ≏ 49'04		morning rise	8233 Oct 09 05:25	10° ≏ 23'01	
	8232 Nov 04 21:38	0° M .		direct	8233 Oct 12 03:02	10° ≏ 02'31	
morning max el	8232 Nov 09 06:00	3° ™ 09'57	19°11'06	morning max el	8233 Oct 22 18:39	15° ≏ 02'02	20°22'03
asc. node	8232 Nov 11 10:53	5° M 30′27		asc. node	8233 Oct 29 07:52	22° ≏ 57'50	
	8232 Nov 25 23:27	0° ∡ ¹			8233 Nov 02 15:59	0° M ₊	
morning set	8232 Nov 26 02:49	0° ∡ 16'46		morning set	8233 Nov 10 09:01	14°M54'52	
superior conj	8232 Dec 04 07:48	16° ∡ ¹30'26	1°20'25	superior conj	8233 Nov 17 22:40	0° ∡ ¹28'17	1°34'28
minimum elong	8232 Dec 04 10:50	16° × 7'45'04	1°20'15	minimum elong	8233 Nov 18 00:34	0° х ⁷ 37′50	1°34'29
max. Earth dist.	8232 Dec 11 00:42	29°×7'03'35	1.38524 AU	minimum ciong	8233 Nov 17 17:05	0° ⊼ ³/30	1 342)
max. Earth dist.	8232 Dec 11 13:13	0° ろ	1.50524710	max. Earth dist.	8233 Nov 23 07:24	11° × 703'13	1.36439 AU
evening rise	8232 Dec 14 19:09	5° ठ 44'08		evening rise	8233 Nov 27 03:58	18° × 16'47	1.50457710
desc. node	8232 Dec 14 17:07 8232 Dec 16 04:20	8° ろ 06'59		desc. node	8233 Dec 03 01:20	28° × 40'02	
desc. node	8232 Dec 10 04.20 8232 Dec 29 22:31	0°≈		desc. node	8233 Dec 03 01:20 8233 Dec 03 20:15	28 メ ・40 02	
avanina may al	8232 Dec 29 22:31 8233 Jan 19 05:21	0 ≈ 25°≈54'33	24947109		8233 Dec 03 20:15 8233 Dec 24 04:15	0°≈	
evening max el	8233 Jan 23 23:33	23 ≈ 34 33 0° ∺	24°47'08	evening max el	8234 Jan 01 18:23	0 ≈ 9°≈41'08	25957120
. 1				Č			25°57'29
retrograde	8233 Jan 30 21:53	2°\(\frac{1}{4}3'23		retrograde	8234 Jan 14 07:49	16°≈50'46	
evening set	8233 Feb 05 11:55	0°) €23'48		evening set	8234 Jan 20 10:23	14°≈20'53	0.67010.441
	8233 Feb 05 22:42	30°R≈		min. Earth dist.	8234 Jan 24 16:45	9° ≈ 47'39	0.67010 AU
asc. node	8233 Feb 07 10:01	28° ≈ 30′10		asc. node	8234 Jan 25 07:07	9° ≈ 02'55	
min. Earth dist.	8233 Feb 10 01:00	25° ≈ 16′05	0.67861 AU	inferior conj	8234 Jan 26 04:34	7° ≈ 55'31	0°17'50
inferior conj	8233 Feb 11 01:27	23° ≈ 55′10	1°10'35	minimum elong	8234 Jan 26 04:07	7° ≈ 56'59	0°17'47
minimum elong	8233 Feb 10 23:52	24° ≈ 00′23	1°10'04	morning rise	8234 Jan 31 22:25	2° ≈ 06'01	
morning rise	8233 Feb 16 12:02	17° ≈ 56'54		direct	8234 Feb 04 03:31	1° ≈ 07'03	
direct	8233 Feb 20 04:34	16° ≈ 38'49		morning max el	8234 Feb 10 21:57	4° ≈ 48'46	18°51'02
morning max el	8233 Feb 27 13:47	20° ≈ 46′34	19°45'28		8234 Feb 28 20:21	0° ∀	
	8233 Mar 07 03:44	0° ∀		desc. node	8234 Mar 01 00:52	0°) 17′37	
greatest brilliancy	8233 Mar 12 08:44	7° ∺ 25′27	-0.6m	morning set	8234 Mar 04 23:15	6° ∺ 25'37	
desc. node	8233 Mar 14 03:56	10°) 04′50		max. Earth dist.	8234 Mar 19 19:43	29°) ⊀38′38	1.45329 AU
morning set	8233 Mar 25 14:49	27° ∺ 27'29			8234 Mar 20 01:10	0 ° Υ	
	8233 Mar 27 06:21	0 ° Υ					
max. Earth dist.	8233 Apr 06 03:13	15° Ƴ 26'52	1.44441 AU	superior conj	8234 Mar 21 10:38	2° Y 11'20	-1°56'52
				minimum elong	8234 Mar 21 02:31	1° Ƴ 39'28	1°56'20
superior conj	8233 Apr 10 23:21	23° Y 11'46	-2°11'24	evening rise	8234 Apr 05 14:41	26° Ƴ 21'34	
minimum elong	8233 Apr 10 21:51	23° Y 05'42	2°11'27		8234 Apr 07 20:40	$_{0\circ}$ 8	
	8233 Apr 15 03:33	$_{0\circ}$ 8		asc. node	8234 Apr 23 05:59	23° 8 34'45	
evening rise	8233 Apr 24 12:16	15° 8 39'47		evening max el	8234 Apr 26 05:24	26° 8 59'36	18°36'22
	8233 May 03 00:50	$\Pi^{\circ}0$			8234 Apr 30 06:18	$\Pi^{\circ}0$	
asc. node	8233 May 06 08:54	5° Ⅱ 16'16		retrograde	8234 May 02 18:30	0°Ⅱ34'22	
evening max el	8233 May 12 17:18	13° Ⅱ 28'58	18°11'50		8234 May 05 05:33	30° ₹ 8	
retrograde	8233 May 19 02:30	16° Ⅱ 51'18		evening set	8234 May 05 23:20	29° 8 36'23	
evening set	8233 May 21 23:59	16° Ⅱ 07'15		inferior conj	8234 May 11 15:51	24° 8 01'20	3°21'13
inferior conj	8233 May 28 01:30	10° Ⅱ 49'13	3°04'03	minimum elong	8234 May 11 16:35	23° 8 59'04	3°21'03
minimum elong	8233 May 28 03:35	10° Ⅱ 43'28	3°03'34	min. Earth dist.	8234 May 13 16:24	21° 8 34'39	0.65139 AU
min. Earth dist.	8233 May 30 17:08	7° Ⅱ 54'53	0.63257 AU	morning rise	8234 May 17 09:06	17° 8 44'30	
morning rise	8233 Jun 03 05:44	4° Ⅱ 37'59		direct	8234 May 23 23:30	14° 8 58'03	
direct	8233 Jun 10 00:05	2° I I01'53		desc. node	8234 May 28 00:32	15° 8 51'03	
desc. node	8233 Jun 10 03:30	2° I 101'57		morning max el	8234 Jun 06 09:11	22° 8 52'13	27°07'12
morning max el	8233 Jun 23 23:03	10° I 04'51	27047'25	morning max or	8234 Jun 12 16:16	0°Ⅱ	27 07 12
morning max er	8233 Jul 09 12:38	0°95	21 4123		8234 Jul 02 19:37	0°©	
	8233 Jul 26 20:17	0° U		morning set	8234 Jul 11 23:24	16°9542'03	
morning set	8233 Jul 28 11:52	3° Ω 16'15		max. Earth dist.	8234 Jul 16 10:09	25°931'26	1.33709 AU
asc. node	8233 Aug 02 08:13	13°Ω16'37		max. Darui uist.	8234 Jul 18 14:24	23 3 31 20 0° Ω	1.55107 AU
	-		1 22541 ATT		0234 Jul 10 14.24	0 86	
max. Earth dist.	8233 Aug 02 15:36	12.96221	1.32541 AU	gunories con:	9224 Jul 20 00:01	20 0 42147	0001120
aumania	9222 4 05 06 26	100 0 20152	0020122	superior conj	8234 Jul 20 09:01	3° Ω 42'47	0°01'38
superior conj	8233 Aug 05 06:26	19° Ω 32'52	0°29'23	minimum elong	8234 Jul 20 08:56	3° Ω 42′23	0°01'27
minimum elong	8233 Aug 05 05:05	19° Ω 25'35	0*29*00	behind sun begin	8234 Jul 20 03:21	3° Ω 13'00	
	8233 Aug 10 01:48	0° mp		behind sun end	8234 Jul 20 14:31	4° Ω 11'50	
evening rise	8233 Aug 12 04:54	4° m 35'04		asc. node	8234 Jul 20 05:11	3° Ω 22'38	
	8233 Aug 25 17:39	0∘ ⊽	0000 (100	evening rise	8234 Jul 27 15:37	19° Ω 10′00	
evening max el	8233 Sep 04 12:42	12° ₽ 23'00	23°26'03		8234 Aug 01 23:28	0° m)	
desc. node	8233 Sep 06 02:26	13° ≏ 49'38		evening max el	8234 Aug 17 03:32	22° m 39'50	21°48'32

desc. node	8234 Aug 23 23:32	27° m 35'46		evening rise	8235 Jul 11 23:25	3° £ 32′52	
retrograde	8234 Aug 29 16:23	28° Mp 53'06			8235 Jul 27 03:32	0° m)	
evening set	8234 Sep 01 11:07	28° m 35'45		evening max el	8235 Jul 30 05:23	3° Mp 26'48	20°23'54
inferior conj	8234 Sep 10 15:00	24° Mp 36'10	-4°43'53	retrograde	8235 Aug 10 04:39	8° m 52'04	
minimum elong	8234 Sep 10 06:05	24° m 48'39	4°41'57	desc. node	8235 Aug 10 20:39	8° m 50'56	
min. Earth dist.	8234 Sep 10 07:01	24° Mp 47'21	0.54769 AU	evening set	8235 Aug 12 04:31	8° m 42'05	
morning rise	8234 Sep 19 02:17	20° m/46'56		inferior conj	8235 Aug 21 08:25	4° m 44'39	-3°07'17
direct	8234 Sep 22 13:58	20° m/20'15		minimum elong	8235 Aug 21 00:07	4° m 56'45	3°04'31
morning max el	8234 Oct 04 18:24	26° Mp 05'11	21°53'35	min. Earth dist.	8235 Aug 22 16:46	3° m 57'35	0.54860 AU
C	8234 Oct 08 10:45	0∘ ⊽		morning rise	8235 Aug 29 19:00	0° m/38'42	
asc. node	8234 Oct 16 04:51	11° ≏ 13'59		direct	8235 Sep 02 23:32	0° mp 01'00	
morning set	8234 Oct 25 18:53	29° Ω 41'51		morning max el	8235 Sep 16 09:01	6° mp 30'48	23°38'08
	8234 Oct 25 22:20	0°M		asc. node	8235 Oct 03 01:49	0° £ 07'08	
	0231 001 23 22.20	0 110		use. Houe	8235 Oct 03 00:17	0∘ ಹ	
superior conj	8234 Nov 01 22:44	14° M .51'41	1°40'50	morning set	8235 Oct 10 06:27	ა _ 14° ჲ 31'59	
minimum elong	8234 Nov 01 22:44 8234 Nov 01 23:17	14°M54'35	1°40'55	morning set	6233 Oct 10 00.27	14 = 31 37	
max. Earth dist.	8234 Nov 05 20:28		1.34632 AU	aumariar aani	9225 Oat 17 04:56	29° ₽ 31'34	1940125
max. Earm dist.			1.34032 AU	superior conj	8235 Oct 17 04:56		1°40'23
	8234 Nov 09 09:51	0° 🔏		minimum elong	8235 Oct 17 04:16	29° £ 27'58	1°40′28
evening rise	8234 Nov 10 05:09	1° ₹ 33'12		P. 4. P.	8235 Oct 17 10:12	0°M,	1 22220 1 1 1
desc. node	8234 Nov 19 22:23	19° ∡ 00'31		max. Earth dist.	8235 Oct 19 18:05	4°M.59'14	1.33220 AU
	8234 Nov 26 20:10	0° ろ		evening rise	8235 Oct 24 18:48	15° M 22'54	
evening max el	8234 Dec 15 07:45	23° る 22'26	26°52'08		8235 Nov 01 12:15	0° ∡ ¹	
	8234 Dec 24 20:26	0° ≈		desc. node	8235 Nov 06 19:27	9° ∡ ¹01'56	
retrograde	8234 Dec 28 12:08	0° ≈ 41'11			8235 Nov 21 13:43	0°ಕ	
	8234 Dec 31 22:32	30°Ŗ₹		evening max el	8235 Nov 27 20:23	6° る 46'50	27°23'49
evening set	8235 Jan 04 02:13	28° る 05'38		retrograde	8235 Dec 11 10:03	14° පි 06'11	
min. Earth dist.	8235 Jan 08 02:37	24° る 06'51	0.65800 AU	evening set	8235 Dec 18 08:58	11° る 31'28	
inferior conj	8235 Jan 10 02:01	21° る 49'24	-0°42'10	min. Earth dist.	8235 Dec 22 04:16	8° る 05'50	0.64252 AU
minimum elong	8235 Jan 10 03:13	21° る 45'55	0°41'29	inferior conj	8235 Dec 24 15:16	5° る 30'26	-1°48'15
asc. node	8235 Jan 12 04:12	19° る 28'41		minimum elong	8235 Dec 24 18:37	5° る 21'36	1°46'42
morning rise	8235 Jan 16 05:18	16° る 11'12		asc. node	8235 Dec 30 01:17	0° る 42'51	
direct	8235 Jan 19 00:47	15° る 27'47		morning rise	8235 Dec 31 05:52	0° ප 06'34	
morning max el	8235 Jan 25 11:54	18° る 54'50	18°13'03	-	8235 Dec 31 12:31	30°R. ✓	
	8235 Feb 02 22:10	0° ≈		direct	8236 Jan 02 17:47	29° ∡ ³34'57	
morning set	8235 Feb 13 11:19	16° ≈ 48'57			8236 Jan 04 22:57	0°ರ	
desc. node	8235 Feb 15 21:48	20° ≈ 44'57		morning max el	8236 Jan 09 04:55	2°る57'30	17°52'05
	8235 Feb 21 16:23	0°) €		morning set	8236 Jan 26 04:01	28° පි 36'20	
				3	8236 Jan 26 23:48	0° ≈	
superior conj	8235 Feb 28 15:44	11° 米 01'26	-1°23'35	desc. node	8236 Feb 02 18:45	11° ≈ 21'53	
minimum elong	8235 Feb 28 06:36	10°) 25'34		dese. node	0250100 02 10.10	11 / 2103	
max. Earth dist.	8235 Mar 02 15:18		1.45487 AU	superior conj	8236 Feb 08 09:45	20° ≈ 32'57	-0°39'59
max. Dartii dist.	8235 Mar 12 19:15	0°Υ	1.45407 110	minimum elong	8236 Feb 08 05:12	20°≈14'36	
evening rise	8235 Mar 16 18:30	6° Υ 11'06		max. Earth dist.	8236 Feb 13 10:54	28°≈36'42	1.44905 AU
greatest brilliancy	8235 Mar 28 12:13	24° Υ 21'15	0.7m	max. Earth dist.	8236 Feb 14 08:00	28 ≈ 30 42	1.44903 AO
greatest offinality	8235 Apr 01 07:16	0°8	-0.7111	evening rise	8236 Feb 24 07:39	15° ∺ 31'26	
	•		10010104	evening rise		15 γ (31 20	
evening max el	8235 Apr 09 14:00	10° 8 36'06 11° 8 08'26	19°18'04		8236 Mar 04 20:32	0° γ 24° Υ 14'06	20015111
asc. node	8235 Apr 10 03:05			evening max el	8236 Mar 22 17:25		20°15'11
retrograde	8235 Apr 16 15:04	14° 8 35'13		asc. node	8236 Mar 27 00:13	27°\dagger43'32	
evening set	8235 Apr 20 03:46	13° 8 22'32	2022/20	retrograde	8236 Mar 30 13:32	28° Y 47'36	
inferior conj	8235 Apr 25 14:37	7° 8 31'53		evening set	8236 Apr 03 10:58	27° Y 19'50	2011102
minimum elong	8235 Apr 25 14:06	7° 8 33'34		inferior conj	8236 Apr 08 18:56	21° Y 15'23	3°11'02
min. Earth dist.	8235 Apr 26 23:52	5° 8 43'58	0.66621 AU	minimum elong	8236 Apr 08 17:26	21° Y 20′28	3°10'47
morning rise	8235 May 01 00:04	1° 8 13'59		min. Earth dist.	8236 Apr 09 13:50	20° Y 11′06	0.67656 AU
	8235 May 02 13:55	30° ₹Ƴ		morning rise	8236 Apr 13 23:41	14° Y ′58′58	
direct	8235 May 07 05:22	28° Y ′29'29		direct	8236 Apr 19 16:40	12° Y 26′15	
	8235 May 12 08:43	0°8		desc. node	8236 Apr 30 18:30	18° Ƴ 54'01	
desc. node	8235 May 14 21:32	1° 8 38'46		morning max el	8236 May 01 04:36	19° Ƴ 19'19	24°37'38
morning max el	8235 May 19 19:18	6° 8 00'13	26°00'44		8236 May 10 06:02	9° 8	
	8235 Jun 07 07:16	Π °0			8236 May 30 10:18	Π °0	
morning set	8235 Jun 24 21:46	29° Ⅲ 27'31		morning set	8236 Jun 06 02:10	11° Ⅱ 19'50	
	8235 Jun 25 04:47	0 \circ \odot		max. Earth dist.	8236 Jun 09 17:09	17° Ⅱ 49'04	1.37383 AU
max. Earth dist.	8235 Jun 28 18:02	6° 5 643'05	1.35355 AU		8236 Jun 16 04:40	0°©	
superior conj	8235 Jul 04 04:00	17° 5 26'49	-0°29'00	superior conj	8236 Jun 16 12:13	0°936'35	-1°00'51
minimum elong	8235 Jul 04 05:42	17° © 35'25	0°28'50	minimum elong	8236 Jun 16 15:57	0°954'45	1°00'22
asc. node	8235 Jul 07 02:12	23° © 26'19		asc. node	8236 Jun 22 23:14	13°523'40	
	8235 Jul 10 06:12	$0^{\circ}\Omega$		evening rise	8236 Jun 25 01:50	17° 5 36'41	
				Č			

	8236 Jul 01 12:09	0°N		evening rise	8237 Jun 08 19:49	1° © 12'39	
evening max el	8236 Jul 11 20:26	14° Ω 58'14	19°18'48	asc. node	8237 Jun 09 20:16	3°909'50	
retrograde	8236 Jul 21 03:07	19°Ω33'20	17 10 40	evening max el	8237 Jun 24 22:28		18°34'36
evening set	8236 Jul 23 00:04	19° Ω 22'54		evening max er	8237 Jun 28 15:01	0°Ω	10 5450
desc. node	8236 Jul 27 17:44	17° Ω 35'51		retrograde	8237 Jul 02 19:21	1° Ω 06'17	
inferior conj	8236 Jul 31 14:04	15°Ω14'03	-1°10'43	evening set	8237 Jul 04 21:42	0° Ω 50'29	
minimum elong	8236 Jul 31 10:55	15° Ω 19'14	1°09'36	evening sec	8237 Jul 07 04:46	30°Rூ	
min. Earth dist.	8236 Aug 03 05:45	13° Ω 29'34	0.55877 AU	inferior conj	8237 Jul 12 16:08	26°\$23'08	0°34'41
morning rise	8236 Aug 08 19:00	10° £ 34′28		minimum elong	8237 Jul 12 17:24	26°\$20'41	0°34'04
direct	8236 Aug 13 19:04	9°Ω37'24		desc. node	8237 Jul 14 14:48	24°952'50	
morning max el	8236 Aug 27 21:42	16° Ω 45'32	25°21'24	min. Earth dist.	8237 Jul 15 23:41	23°951'02	0.57627 AU
	8236 Sep 07 17:01	0° m/		morning rise	8237 Jul 20 09:34	21° © 06'31	
asc. node	8236 Sep 18 22:47	19° m 27'52		direct	8237 Jul 26 05:17	19° © 40'54	
morning set	8236 Sep 23 18:04	29° m 20'28		morning max el	8237 Aug 09 14:18	27° © 17'08	26°46'25
3	8236 Sep 24 01:28	$0 \circ \overline{\mathbf{v}}$		5 5	8237 Aug 12 05:16	$0^{\circ}\Omega$	
	1				8237 Sep 01 04:24	0° m)	
superior conj	8236 Sep 30 14:55	14° £ 20'41	1°34'00	asc. node	8237 Sep 05 19:44	9° m 08'00	
minimum elong	8236 Sep 30 13:20	14° £ 11'55	1°33'55	morning set	8237 Sep 08 03:59	14° m) 01'13	
max. Earth dist.	8236 Oct 01 22:58	17° £ 16'33	1.32251 AU	. 8		4	
evening rise	8236 Oct 07 17:38	29° £ 37'13		superior conj	8237 Sep 15 02:35	29° m) 11'36	1°22'08
8	8236 Oct 07 22:03	0°M		minimum elong	8237 Sep 15 00:27	28° m 59'45	1°21'51
desc. node	8236 Oct 23 16:32	28°M36'12			8237 Sep 15 11:18	0∘ ⊽	
	8236 Oct 24 14:14	0° ∡ ¹		max. Earth dist.	8237 Sep 15 08:07		1.31738 AU
evening max el	8236 Nov 09 06:08	19° ∡ 741'16	27°26'17	evening rise	8237 Sep 21 22:49	14° ≙ 07'19	
retrograde	8236 Nov 23 01:06	26° ₹ 56'48		<i>3</i>	8237 Sep 29 22:43	0°M	
evening set	8236 Nov 30 03:41	24° х 32′00		desc. node	8237 Oct 10 13:37	17°M31'22	
min. Earth dist.	8236 Dec 03 19:55	21° ∡ ³34'47	0.62406 AU		8237 Oct 20 12:51	0° ∡ 7	
inferior conj	8236 Dec 06 17:25	18° ∡ 751'30		evening max el	8237 Oct 22 10:30	1° ∡ 753′06	26°55'32
minimum elong	8236 Dec 06 23:02	18° ∡ ³38'16		retrograde	8237 Nov 05 08:20	9° ∡ 02'56	
morning rise	8236 Dec 13 20:31	13° ∡ ⁴45'19		evening set	8237 Nov 12 06:21	6° ∡ 759'06	
asc. node	8236 Dec 15 22:18	13° ∡ ¹22'04		min. Earth dist.	8237 Nov 16 00:55	4° ∡ ¹20'24	0.60354 AU
direct	8236 Dec 16 03:20	13° ∡ 21'52		inferior conj	8237 Nov 19 05:03	1° ∡ ¹43'18	
morning max el	8236 Dec 22 21:54	16° ∡ ⁴49'08	17°48'48	minimum elong	8237 Nov 19 12:14	1° ∡ 28′26	4°03'51
Ü	8237 Jan 01 06:08	0°₹		S	8237 Nov 21 08:32	30°RM	
morning set	8237 Jan 07 19:33	11° る 29'09		morning rise	8237 Nov 26 20:31	26°M57'43	
Ü	8237 Jan 18 10:09	0° ≈		direct	8237 Nov 29 01:27	26° ™ 39'00	
				asc. node	8237 Dec 02 19:18	27° M 35'37	
superior conj	8237 Jan 19 04:09	1°≈16'06	0°03'34		8237 Dec 06 03:04	0° ∡ ¹	
minimum elong	8237 Jan 19 04:30	1°≈17'35	0°03'40	morning max el	8237 Dec 06 11:27	0° ∡ ¹20′03	18°04'21
behind sun begin	8237 Jan 18 19:48	0° ≈ 40'48		morning set	8237 Dec 22 03:33	25° ∡ ¹08'05	
behind sun end	8237 Jan 19 13:13	1°≈54'17		· ·	8237 Dec 24 18:13	გ∘ე	
desc. node	8237 Jan 19 15:44	2°≈04'53					
max. Earth dist.	8237 Jan 26 03:17	12° ≈ 45'53	1.43653 AU	superior conj	8237 Dec 31 23:36	13° る 10'55	0°40'29
evening rise	8237 Feb 02 20:39	24°≈59'20		minimum elong	8238 Jan 01 02:33	13° る 24'00	0°40'13
C	8237 Feb 06 02:45	0° ∀		desc. node	8238 Jan 06 12:43	22° る 50'08	
	8237 Feb 26 22:30	$0^{\circ}\mathbf{\Upsilon}$		max. Earth dist.	8238 Jan 08 14:46	26° る 21'12	1.41872 AU
evening max el	8237 Mar 05 15:12	7° Ƴ 52'49	21°24'45		8238 Jan 10 19:33	0° ≈	
asc. node	8237 Mar 13 21:19	13° Ƴ 05'09		evening rise	8238 Jan 13 23:37	5° ≈ 08'44	
retrograde	8237 Mar 14 11:46	13° Y 07'00			8238 Jan 30 09:18	0° ∀	
evening set	8237 Mar 18 19:05	11° Y 24'06		evening max el	8238 Feb 16 08:19	21° ¥ 34'19	22°42'28
inferior conj	8237 Mar 24 02:25	5° Ƴ 08'20	2°48'56	retrograde	8238 Feb 26 08:03	27°) €29'43	
minimum elong	8237 Mar 24 00:20	5° Ƴ 15'36	2°48'28	asc. node	8238 Feb 28 18:22	27° ₩ 00'02	
min. Earth dist.	8237 Mar 24 08:14	4° Ƴ 48'07	0.68249 AU	evening set	8238 Mar 03 02:30	25°) 31′56	
	8237 Mar 28 02:49	30° ₹		inferior conj	8238 Mar 08 11:05	19° ¥ 08'07	2°17'29
morning rise	8237 Mar 29 05:24	28° ¥ 55′01		minimum elong	8238 Mar 08 08:50	19° 升 15′57	2°16'51
direct	8237 Apr 03 08:36	26°) 40′35		min. Earth dist.	8238 Mar 08 04:49	19° ¥ 29'52	0.68416 AU
	8237 Apr 10 14:18	$0^{\circ}\mathbf{\Upsilon}$		morning rise	8238 Mar 13 15:02	12° ¥ 59′20	
morning max el	8237 Apr 13 14:15	2° Y 45'12	23°07'55	direct	8238 Mar 18 04:16	11°) €06'31	
desc. node	8237 Apr 17 15:28	7° Ƴ 12'44		morning max el	8238 Mar 27 03:25	16°) (19′48	21°40'56
	-	0° ႘		desc. node	8238 Apr 04 12:25	26°) (17'45	
	8237 May 04 07:46				•	0° Υ	
morning set	8237 May 04 07:46 8237 May 18 06:58	22° 8 04'12			8238 Apr 07 06:11	O.A.	
morning set max. Earth dist.	•		1.39616 AU		8238 Apr 07 06:11 8238 Apr 27 09:02	0°8	
•	8237 May 18 06:58	22° 8 04'12	1.39616 AU	morning set	-		
•	8237 May 18 06:58 8237 May 22 13:10	22° 8 04'12 29° 8 18'08	1.39616 AU	morning set max. Earth dist.	8238 Apr 27 09:02	0°8 1°832'11	1.41792 AU
•	8237 May 18 06:58 8237 May 22 13:10	22° 8 04'12 29° 8 18'08		-	8238 Apr 27 09:02 8238 Apr 28 08:14	0°8 1°832'11	1.41792 AU
max. Earth dist.	8237 May 18 06:58 8237 May 22 13:10 8237 May 22 22:50	22° 8 04'12 29° 8 18'08 0° П	-1°31'21	-	8238 Apr 27 09:02 8238 Apr 28 08:14	0°8 1°832'11	
max. Earth dist.	8237 May 18 06:58 8237 May 22 13:10 8237 May 22 22:50 8237 May 30 05:37	22° 8 04'12 29° 8 18'08 0° П 13° П 01'48	-1°31'21	max. Earth dist.	8238 Apr 27 09:02 8238 Apr 28 08:14 8238 May 04 12:57	0° 엉 1° 엉 32'11 11° 엉 36'10	-1°56'28

	9229 M 15 05.55	ωт			9220 M 05 14-44	200	
	8238 May 15 05:55	0°II		evening rise	8239 May 05 14:44	26° 8 23'27	
evening rise	8238 May 23 01:37	14° Ⅱ 11'47 22° Ⅱ 40'14		4-	8239 May 07 16:19	0°Ⅱ 11°Ⅲ4922	
asc. node	8238 May 27 17:18			asc. node	8239 May 14 14:21	11° II 48'32	10006101
	8238 May 31 23:13	0.ಪ	10010120	evening max el	8239 May 22 20:38	23° Ⅱ 07'52 26° Ⅱ 28'34	18°06'01
evening max el	8238 Jun 08 07:48	9°958'08	18°10'38	retrograde	8239 May 29 07:28		
retrograde	8238 Jun 15 05:56	13°528'00		evening set	8239 Jun 01 00:57	25° I 51'48	2045114
evening set	8238 Jun 17 15:57	13°903'00	1052142	inferior conj	8239 Jun 07 09:20	20° Ⅱ 44'11	
inferior conj	8238 Jun 24 15:35	8°915'13	1°53'43	minimum elong	8239 Jun 07 12:03	20° I 37'12	
minimum elong	8238 Jun 24 18:35	8°908'30	1°52'40	min. Earth dist.	8239 Jun 10 08:37		0.62043 AU
min. Earth dist.	8238 Jun 28 00:04	5°515'53	0.59795 AU	morning rise	8239 Jun 13 21:14	14° Ⅱ 39'47	
desc. node	8238 Jul 01 11:51	2°939'16		desc. node	8239 Jun 18 08:54	12° II 31'01	
morning rise	8238 Jul 01 18:17	2°529'26		direct	8239 Jun 20 15:04	12° I I15'10	25055121
direct	8238 Jul 08 04:56	0° © 31'58		morning max el	8239 Jul 04 18:34	20° Ⅱ 16'33	27°55'31
morning max el	8238 Jul 22 13:23	8°925'24	27°39'49		8239 Jul 13 02:41	0°9	
	8238 Aug 08 00:11	$0^{\circ}\Omega$			8239 Jul 31 23:59	$0^{\circ}\Omega$	
morning set	8238 Aug 23 10:31	28° Ω 29'20		morning set	8239 Aug 07 11:42	12° Ω 38'45	
asc. node	8238 Aug 23 16:43	29° Ω 01'42		asc. node	8239 Aug 10 13:41	19° Ω 03'33	
	8238 Aug 24 03:48	O° m y		max. Earth dist.	8239 Aug 13 01:14	24° Ω 22'30	1.32091 AU
max. Earth dist.	8238 Aug 29 18:09	12° Mp 08'08	1.31684 AU				
				superior conj	8239 Aug 14 23:43	28° Ω 35'41	0°43'43
superior conj	8238 Aug 30 14:07	13° m 58'36	1°05'15	minimum elong	8239 Aug 14 21:54	28° Ω 25'42	0°43'16
minimum elong	8238 Aug 30 11:53	13°Mp46'15	1°04'50		8239 Aug 15 15:07	0° m y	
evening rise	8238 Sep 06 08:04	28° Mp 46'48		evening rise	8239 Aug 21 19:22	13° m 29'10	
	8238 Sep 06 21:48	0∘ ऌ			8239 Aug 30 00:56	0∘ ত	
	8238 Sep 23 10:28	0° M ₊		desc. node	8239 Sep 14 07:46	22° ≙ 17'25	
desc. node	8238 Sep 27 10:41	5°M32'12		evening max el	8239 Sep 15 21:07	23° ♀ 51'22	24°23'02
evening max el	8238 Oct 04 07:27	13°ML15'12	25°51'54	-	8239 Sep 25 03:57	0° M .	
retrograde	8238 Oct 18 05:48	20°M18'35		retrograde	8239 Sep 29 15:27	0°M45'52	
evening set	8238 Oct 24 12:09	18° M .46'01		•	8239 Oct 04 04:26	30° ₹ Ω	
min. Earth dist.	8238 Oct 28 20:09	16°ML10'20	0.58280 AU	evening set	8239 Oct 04 17:24	29° £ 48'46	
inferior conj	8238 Oct 31 22:47	13°M56'30		min. Earth dist.	8239 Oct 10 08:00		0.56437 AU
minimum elong	8238 Nov 01 05:11	13°M44'58		inferior conj	8239 Oct 12 20:19	25° ≏ 23'23	
morning rise	8238 Nov 09 00:31	9°M33'22		minimum elong	8239 Oct 12 21:51	25° ≏ 20'59	
direct	8238 Nov 11 08:03	9° M .16'11		morning rise	8239 Oct 21 04:27	21° ≏ 21'49	
morning max el	8238 Nov 19 17:54	13°ML20'02	18°40'21	direct	8239 Oct 23 19:51	21° ⊆ 03'10	
asc. node	8238 Nov 19 16:18	13°ML16'13	10 4021	morning max el	8239 Nov 02 13:44		19°38'28
asc. node	8238 Dec 01 01:44	0° ∡ 7		morning max cr	8239 Nov 06 10:25	0° ™	17 30 20
morning set	8238 Dec 01 01:44 8238 Dec 05 22:57	9° × 718'16		asc. node	8239 Nov 06 10:23 8239 Nov 06 13:18	0°11L09'27	
morning set	8238 Dec 03 22.37	9 8 10 10		morning set	8239 Nov 00 13:18 8239 Nov 20 02:06	23°M49'29	
superior conj	8238 Dec 14 15:48	26° ₹ 04'34	1°08'27	morning set	8239 Nov 20 02:00 8239 Nov 23 03:21	23 1164929 0° √ 1	
	8238 Dec 14 15:48 8238 Dec 14 19:12	26° × 20'28	1°08'11		6239 NOV 23 03.21	0 X	
minimum elong			1 08 11		0220 N	00 7 42127	1007100
E d E d	8238 Dec 16 18:25	0°る	1 20701 ATT	superior conj	8239 Nov 27 23:46	9° х 43'27	1°27'22
max. Earth dist.	8238 Dec 21 21:59	9° る 15'29	1.39781 AU	minimum elong	8239 Nov 28 02:22	9° х 56'16	1°27'17
desc. node	8238 Dec 24 09:41	13° る 33'50		max. Earth dist.	8239 Dec 04 03:59	21° х 33'10	1.37622 AU
evening rise	8238 Dec 25 23:44	16° ප 15'14		evening rise	8239 Dec 07 21:30	28° ∡ 19'11	
	8239 Jan 03 11:49	0° ≈			8239 Dec 08 20:20	0°る	
	8239 Jan 25 01:42	0° ∀	24005:55	desc. node	8239 Dec 11 06:41	4°る12'33	
evening max el	8239 Jan 29 22:36	5°) 19′28	24~02'37		8239 Dec 27 21:09	0° ≈	2501005
retrograde	8239 Feb 10 01:01	11° ¥ 50′50		evening max el	8240 Jan 12 11:50		25°18'27
evening set	8239 Feb 15 07:41	9°) 38′54		retrograde	8240 Jan 24 13:38	26°≈05'40	
asc. node	8239 Feb 15 15:27	9° ∺ 21'55		evening set	8240 Jan 30 09:08	23°≈41'22	
min. Earth dist.	8239 Feb 20 01:16		0.68180 AU	asc. node	8240 Feb 02 12:31	20° ≈ 24'45	
inferior conj	8239 Feb 20 19:04	3° ∺ 10′54		min. Earth dist.	8240 Feb 03 19:19	18° ≈ 48'24	0.67554 AU
minimum elong	8239 Feb 20 17:06	3° 升 17'36	1°36'46	inferior conj	8240 Feb 05 00:33	17° ≈ 13'44	0°49'09
	8239 Feb 23 05:46	30°R ≈		minimum elong	8240 Feb 04 23:23	17° ≈ 17'32	0°48'49
morning rise	8239 Feb 26 02:32	27° ≈ 08'16		morning rise	8240 Feb 10 13:58	11° ≈ 18'59	
direct	8239 Mar 02 02:23	25° ≈ 37'43		direct	8240 Feb 14 01:32	10° ≈ 09'17	
	8239 Mar 09 20:58	0°) €		morning max el	8240 Feb 21 03:19	14° ≈ 03'57	19°20'20
morning max el	8239 Mar 09 23:20	0°) €05'51	20°23'40		8240 Mar 04 06:50	0°) €	
desc. node	8239 Mar 22 09:21	15° ¥ 55'53		greatest brilliancy	8240 Mar 05 03:09	1° ∺ 15'31	-0.7m
	8239 Mar 31 21:45	$0^{\circ}\mathbf{\Upsilon}$		desc. node	8240 Mar 08 06:17	5° ¥ 58′23	
morning set	8239 Apr 07 10:36	10° Ƴ 00'00		morning set	8240 Mar 16 09:51	18°) 27′55	
max. Earth dist.	8239 Apr 16 20:18	24° Ƴ 49'22	1.43636 AU		8240 Mar 23 20:17	0° Υ	
	8239 Apr 20 01:02	8° 0		max. Earth dist.	8240 Mar 29 10:42	8° Ƴ 46'58	1.44915 AU
	-						
superior conj	8239 Apr 23 02:03	5° 8 00'06	-2°10'39	superior conj	8240 Apr 02 00:11	14° Y 25'39	-2°07'45
minimum elong	8239 Apr 23 04:14	5° 8 09'12		minimum elong	8240 Apr 01 19:35	14° Ƴ 07'21	
3	•	-		3			

	8240 Apr 11 15:23	0°8		superior conj	8241 Mar 12 06:29	23° ¥ 14'49	-1°44'40
evening rise	8240 Apr 16 06:44	7° 8 39'47		minimum elong	8241 Mar 11 21:01	22°) 37'49	
asc. node	8240 Apr 30 11:25	0° Ⅱ 27'55		max. Earth dist.	8241 Mar 12 05:05	23° ¥ 09′22	1.45491 AU
	8240 Apr 30 03:36	$\Pi^{\circ}0$			8241 Mar 16 13:55	$0^{\circ}\Upsilon$	
evening max el	8240 May 05 09:46	6° ∏ 32'52	18°20'02	evening rise	8241 Mar 27 23:10	17° Ƴ 58'17	
retrograde	8240 May 11 19:28	9° Ⅱ 58'53			8241 Apr 04 13:01	$0^{\circ}B$	
evening set	8240 May 14 20:07	9° Ⅱ 08'51		greatest brilliancy	8241 Apr 05 18:37	1° 8 56'26	-0.8m
inferior conj	8240 May 20 17:19	3° Ⅱ 43′05	3°13'30	asc. node	8241 Apr 17 08:31	18° 8 29'03	
minimum elong	8240 May 20 18:51	3° Ⅱ 38'40	3°13'11	evening max el	8241 Apr 18 20:34	20° 8 06'31	18°52'02
min. Earth dist.	8240 May 23 02:33	0° ∏ 59'04	0.64105 AU	retrograde	8241 Apr 25 13:57	23° 8 50'39	
	8240 May 24 00:17	30°₽ 8		evening set	8241 Apr 28 21:58	22° 8 46'32	
morning rise	8240 May 26 16:31	27° 8 28'48		inferior conj	8241 May 04 11:41	17° 8 04'25	
direct	8240 Jun 02 09:50	24° 8 47'08		minimum elong	8241 May 04 11:52	17° 8 03'50	3°23'22
desc. node	8240 Jun 04 05:56 8240 Jun 13 04:29	24° ႘ 58'00 0° Ⅱ		min. Earth dist.	8241 May 06 05:36	14° 8 53'17 10° 8 46'27	0.65818 AU
morning may al	8240 Jun 16 03:52	0 П 2°П47'16	27024100	morning rise direct	8241 May 10 01:12 8241 May 16 12:04	7° 8 59'38	
morning max el	8240 Jul 06 11:12	2 H47 10 0°95	27 34 08	desc. node	8241 May 22 02:56	9° 8 41'48	
morning set	8240 Jul 21 05:06	26°\$22'54		morning max el	8241 May 29 14:30	15° 8 46'15	26°41'39
morning set	8240 Jul 23 00:33	0°Ω		morning max ci	8241 Jun 10 07:30	0°Ⅱ	20 41 37
max. Earth dist.	8240 Jul 26 01:35		1.32978 AU		8241 Jun 29 06:47	0° ©	
asc. node	8240 Jul 27 10:40	9° Ω 09'13		morning set	8241 Jul 04 11:35	9° © 33'36	
				max. Earth dist.	8241 Jul 08 15:52	17° © 40'58	1.34350 AU
superior conj	8240 Jul 29 05:29	12° Ω 57′09	0°18'02				
minimum elong	8240 Jul 29 04:37	12° Ω 52′28	0°17'43	superior conj	8241 Jul 13 05:12	26° © 57'11	-0°11'07
evening rise	8240 Aug 05 06:54	28° Ω 08'35		minimum elong	8241 Jul 13 05:49	27° © 00'24	0°11'09
	8240 Aug 06 03:58	0° ™		behind sun begin	8241 Jul 13 01:37	26° © 38'36	
	8240 Aug 23 15:51	0∘ ⊽		behind sun end	8241 Jul 13 10:01	27° © 22'13	
evening max el	8240 Aug 27 08:42	4° ≏ 03'52	22°43'43	asc. node	8241 Jul 14 07:41	29° © 15'05	
desc. node	8240 Aug 31 04:53	7° Ω 18'15			8241 Jul 14 16:16	0° Ω	
retrograde	8240 Sep 09 12:48	10° Ω 38'25		evening rise	8241 Jul 20 16:41	12° Ω 39'34	
evening set	8240 Sep 13 02:23	10° Ω 10'31	0.55140 ATT		8241 Jul 29 14:39	0°M) 148™20112	21010125
min. Earth dist. inferior conj	8240 Sep 20 16:25 8240 Sep 21 23:06	6° £ 47'14 6° £ 03'27	0.55140 AU	evening max el desc. node	8241 Aug 09 03:25 8241 Aug 18 02:00	14° Mp 30'12 20° Mp 03'05	21-10-25
minimum elong	8240 Sep 21 23:00 8240 Sep 21 17:09	6° £ 11'58		retrograde	8241 Aug 21 01:53	20° my 25'05	
morning rise	8240 Sep 30 09:54	0 = 1138 2° ⊆ 15'04	3 17 20	evening set	8241 Aug 23 10:04	20° mg 12'17	
direct	8240 Oct 03 13:16	1° £ 52'23		inferior conj	8241 Sep 01 15:57	16° mp 15'05	-4°07'41
morning max el	8240 Oct 14 20:44	7° Ω 10'07	20°58'52	minimum elong	8241 Sep 01 06:24	16° m/28'32	4°05'03
asc. node	8240 Oct 23 10:18	17° Ω 59'09		min. Earth dist.	8241 Sep 02 01:21	16° mp 01'50	0.54679 AU
	8240 Oct 30 04:34	0° M.		morning rise	8241 Sep 10 03:17	12° m 21'14	
morning set	8240 Nov 03 10:10	8°M32'41		direct	8241 Sep 13 21:26	11° m 50'53	
				morning max el	8241 Sep 26 16:03	17° m 55'41	22°37'18
superior conj	8240 Nov 10 19:01	23°M53'54	1°38'02		8241 Oct 06 08:44	0∘ ⊽	
minimum elong	8240 Nov 10 20:20	24°M00'43	1°38'06	asc. node	8241 Oct 10 07:18	6° ჲ 32'18	
	8240 Nov 13 19:05	0° ∡		morning set	8241 Oct 18 20:58	23° ≏ 21'37	
max. Earth dist.	8240 Nov 15 13:10	3° ≯ 28'46	1.35625 AU		8241 Oct 21 23:41	0° M	
evening rise	8240 Nov 19 13:45	11° √ 11'47					
desc. node	8240 Nov 27 03:44	24° ₹ 41'14		superior conj	8241 Oct 25 22:02	8°M25'34	
	8240 Nov 30 08:46	0°る 0°≈		minimum elong max. Earth dist.	8241 Oct 25 22:03	8°M25'37	1.33971 AU
evening max el	8240 Dec 22 05:32 8240 Dec 25 00:57	0 ≈ 2°≈52'47	26°22'54	evening rise	8241 Oct 29 05:31 8241 Nov 02 20:40	15°M23'15 24°M43'25	1.339/1 AU
retrograde	8240 Dec 23 00:37 8241 Jan 06 21:13	2 ≈3247 10°≈07'25	20 22 34	evening risc	8241 Nov 05 14:37	0° x ⁷	
evening set	8241 Jan 13 05:03	7°≈34'09		desc. node	8241 Nov 14 00:47	14° 🗷 54'26	
min. Earth dist.	8241 Jan 17 08:43	3°≈15'57	0.66549 AU	desc. node	8241 Nov 23 21:06	0°る	
inferior conj	8241 Jan 19 01:33	1°≈12'04		evening max el	8241 Dec 07 13:56	16° る 27'38	27°08'43
minimum elong	8241 Jan 19 01:43	1° ≈ 11'32	0°06'31	retrograde	8241 Dec 20 23:05	23° る 48'22	
transit middle	8241 Jan 19 01:43	1° ≈ 11'32	0°06'31	evening set	8241 Dec 27 17:22	21° る 11'57	
transit begin	8241 Jan 18 23:05	1° ≈ 19′33		min. Earth dist.	8241 Dec 31 15:19	17° る 27'41	0.65182 AU
transit end	8241 Jan 19 04:22	1° ≈ 03'30		inferior conj	8242 Jan 02 19:49	15° පි 01'12	-1°09'32
asc. node	8241 Jan 19 09:37	0° ≈ 47'36		minimum elong	8242 Jan 02 21:53	14° る 55'26	1°08'30
	8241 Jan 20 01:31	30°R₹		asc. node	8242 Jan 06 06:42	11° පි 27'43	
morning rise	8241 Jan 24 23:11	25° る 27'20		morning rise	8242 Jan 09 03:45	9° る 28'55	
direct	8241 Jan 27 23:59	24°る35'28	10025:10	direct	8242 Jan 11 19:38	8°る51'10	10001170
morning max el	8241 Feb 03 14:21	28° る 09'21	18°32'49	morning max el	8242 Jan 18 06:00	12° る 15'18	18°01'58
daga = -1-	8241 Feb 05 07:43	0°≈ 26°2218'07		mamirt	8242 Jan 30 18:05	0°≈ 0°a≈00'40	
desc. node	8241 Feb 23 03:13	26°≈18'07		morning set	8242 Feb 05 05:43	9°≈00'49	
morning set	8241 Feb 24 05:02 8241 Feb 25 11:21	28°≈00'12 0°) €		desc. node	8242 Feb 10 00:09 8242 Feb 18 04:21	16°≈50'04 0°) €	
	0271100 23 11.21	υ Λ			0272100 10 04.21	υ Λ	

superior conj	8242 Feb 19 15:02	2°) 17'35	-1°05'41	morning set	8243 Jan 18 09:02	21° る 19'19	
minimum elong	8242 Feb 19 07:28	1°) (47'38		morning set	8243 Jan 23 10:15	0°≈	
max. Earth dist.	8242 Feb 23 00:28	7°) 38'41	1.45327 AU	desc. node	8243 Jan 27 21:06	7°≈30'19	
evening rise	8242 Mar 07 19:15	27°) (30'11	1.10327110	dese. node	02.3 (411 2, 21.00	, , , , , ,	
	8242 Mar 09 09:49	0°Υ		superior conj	8243 Jan 30 18:48	12° ≈ 18'37	-0°21'03
greatest brilliancy	8242 Mar 21 09:39	18° Υ 15'34	-0.7m	minimum elong	8243 Jan 30 16:32	12°≈09'18	0°20'34
8	8242 Mar 29 20:21	0°8		max. Earth dist.	8243 Feb 05 18:46	22° ≈ 00'46	1.44447 AU
evening max el	8242 Apr 02 03:00	3° 8 43'45	19°40'38		8243 Feb 10 20:19	0° ∀	
asc. node	8242 Apr 04 05:37	5° 8 39'37		evening rise	8243 Feb 15 06:27	6° ₩ 50'55	
retrograde	8242 Apr 09 11:37	7° 8 56'50		•	8243 Mar 02 17:48	0°Υ	
evening set	8242 Apr 13 03:48	6° ႘ 37'59		evening max el	8243 Mar 16 04:08	17° Ƴ 23'14	20°43'29
inferior conj	8242 Apr 18 13:07	0° 8 41'17	3°19'03	asc. node	8243 Mar 22 02:43	21° Y 46'04	
minimum elong	8242 Apr 18 12:09	0° 8 44'31	3°18'53	retrograde	8243 Mar 24 10:07	22° Y 13'16	
	8242 Apr 19 01:31	30° ₹ Υ		evening set	8243 Mar 28 11:35	20° Ƴ 39'13	
min. Earth dist.	8242 Apr 19 16:12	29° Ƴ 11'19	0.67115 AU	inferior conj	8243 Apr 02 19:04	14° Ƴ 29'53	3°02'52
morning rise	8242 Apr 23 20:11	24° Y 23'31		minimum elong	8243 Apr 02 17:16	14° Y 36'04	3°02'31
direct	8242 Apr 29 20:29	21° Y 42'47		min. Earth dist.	8243 Apr 03 08:20	13° Y 44'13	0.67969 AU
desc. node	8242 May 08 23:55	26° Ƴ 10′05		morning rise	8243 Apr 07 22:44	8° Ƴ 14'38	
morning max el	8242 May 12 00:15	28° Y 59'59	25°26'44	direct	8243 Apr 13 10:05	5° Ƴ 48'47	
	8242 May 12 23:25	9° 8		morning max el	8243 Apr 24 09:12	12° Ƴ 21'55	23°59'33
	8242 Jun 04 02:43	$\Pi^{\circ}0$		desc. node	8243 Apr 25 20:52	13° Ƴ 55'12	
morning set	8242 Jun 17 02:55	21° Ⅱ 58′20			8243 May 08 12:59	$_{0\circ}$ 8	
max. Earth dist.	8242 Jun 20 19:07	28° Ⅱ 45'18	1.36174 AU		8243 May 27 22:08	$\Pi^{\circ}0$	
	8242 Jun 21 10:56	0 \circ \odot		morning set	8243 May 29 21:54	3° Ⅱ 23'26	
				max. Earth dist.	8243 Jun 02 15:44	9° Ⅱ 56'19	1.38330 AU
superior conj	8242 Jun 26 19:58	10° © 27'35	-0°42'30				
minimum elong	8242 Jun 26 22:32	10° © 40'19	0°42'11	superior conj	8243 Jun 09 22:24	23° II 20'01	-1°14'10
asc. node	8242 Jul 01 04:41	19° © 16'32		minimum elong	8243 Jun 10 02:59	23° Ⅱ 41'43	1°13'36
evening rise	8242 Jul 04 22:27	26° © 54'52			8243 Jun 13 09:36	0 \circ \odot	
	8242 Jul 06 11:05	$0^{\circ}\Omega$		asc. node	8243 Jun 18 01:42	9° © 09'45	
evening max el	8242 Jul 22 10:58	25° Ω 35'43	19°53'43	evening rise	8243 Jun 18 21:39	10°9647'46	
	8242 Jul 28 24:00	0° mp			8243 Jun 29 11:27	0 $^{\circ}\Omega$	
retrograde	8242 Aug 01 16:48	0°₩38'46		evening max el	8243 Jul 05 07:10	7° Ω 25'57	18°57'26
evening set	8242 Aug 03 13:42	0° Mp 29′24		retrograde	8243 Jul 13 21:54	11° Ω 41'41	
desc. node	8242 Aug 04 23:07	0° Mp 10′56		evening set	8243 Jul 15 20:49	11° Ω 29'23	
	8242 Aug 05 13:45	30° R Ω		desc. node	8243 Jul 22 20:11	8° Ω 06'07	
inferior conj	8242 Aug 12 13:01	26° Ω 28'54		inferior conj	8243 Jul 24 02:43	7° Ω 13'14	
minimum elong	8242 Aug 12 06:42	26° Ω 38'32	2°15'56	minimum elong	8243 Jul 24 01:44	7° Ω 14'57	
min. Earth dist.	8242 Aug 14 12:36		0.55184 AU	min. Earth dist.	8243 Jul 27 03:17		0.56559 AU
morning rise	8242 Aug 20 21:52	22° Ω 09'38		morning rise	8243 Aug 01 03:25	2° Ω 17'49	
direct	8242 Aug 25 10:31	21° Ω 24'38		direct	8243 Aug 06 12:27	1° Ω 09'19	
morning max el	8242 Sep 08 04:54	28° Ω 12'43	24°23'13	morning max el	8243 Aug 20 18:23	8° Ω 30'12	26°00'42
	8242 Sep 10 00:01	0° m			8243 Sep 05 20:48	0° m ∕	
asc. node	8242 Sep 27 04:16	25° m 37'52		asc. node	8243 Sep 14 01:13	15° m 07'30	
	8242 Sep 29 09:50	0∘ ⊽		morning set	8243 Sep 17 19:43	22° My 56'13	
morning set	8242 Oct 03 08:42	8° ≏ 11'00			8243 Sep 21 02:01	0∘ ⊽	
	0040 0 : 10 000	220 2 0217	1020122		0040.0	00.2000	1000106
superior conj	8242 Oct 10 06:05	23° Ω 09'54		superior conj	8243 Sep 24 16:57	8° 亚 00'00	1°29'36
minimum elong	8242 Oct 10 04:59	23° £ 03'54		minimum elong	8243 Sep 24 15:04	7° £ 49'38	1°29'26
max. Earth dist.	8242 Oct 12 06:11		1.32747 AU	max. Earth dist.	8243 Sep 25 13:20	9° £ 52'37	1.31979 AU
	8242 Oct 13 10:00	0°M,		evening rise	8243 Oct 01 16:22	23° ഫ 06'09	
evening rise	8242 Oct 17 14:33	8°M44'24			8243 Oct 05 01:32	0°M	
	8242 Oct 29 00:35	0° 🗷		desc. node	8243 Oct 18 18:58	24°M04'21	
desc. node	8242 Oct 31 21:53	4° 🖈 45'20	2792954		8243 Oct 22 21:12	0° ⊀ 7	27017124
evening max el	8242 Nov 20 01:41	29°♂41'14 0°る	21-28.34	evening max el	8243 Nov 02 09:42	12° √ 19'28	21-17-34
	8242 Nov 20 09:41			retrograde	8243 Nov 16 06:02	19° 🗷 31'55	
retrograde	8242 Dec 03 18:27	6° る 59'47		evening set	8243 Nov 23 07:49	17° 🖈 15'02	0.61542 417
evening set	8242 Dec 10 19:27	4°る28'16	0.62400 411	min. Earth dist.	8243 Nov 27 00:18	14° × ⁷ 27'03	0.61543 AU
min. Earth dist.	8242 Dec 14 13:05		0.63489 AU	inferior conj	8243 Nov 30 01:08	11° ×7 44'50	
inforia	8242 Dec 15 19:17	30°₹ <i>₹</i> ⁷	2017/22	minimum elong	8243 Nov 30 07:35	11° х 30'26	3-23.09
inferior conj	8242 Dec 17 04:44	28° 🗷 35'03		morning rise	8243 Dec 07 09:33	6° х 46'44	
minimum elong	8242 Dec 17 09:04	28° 尽 24'09 23° 尽 18'08	2 13 41	direct asc. node	8243 Dec 09 15:10	6° ₹ 25'37 6° ₹ 34'10	
morning rise asc. node	8242 Dec 24 00:33	23°×'18'08 23°×'15'11			8243 Dec 11 00:45	6° × ′34′10 9° × ′57′43	17°53'04
asc. node direct	8242 Dec 24 03:44 8242 Dec 26 09:51	23°×'15'11 22°× 7 50'30		morning max el	8243 Dec 16 15:14 8243 Dec 29 19:42	9° メ' 3/743 0° る	1 / 33 04
morning max el	8242 Dec 26 09:51 8243 Jan 01 23:23	22° × ′30′30 26° × ′14′24	17948127	morning set	8244 Jan 01 08:18	0°る 4° る 34'05	
morning max ci	8243 Jan 05 04:50	20 x・1424 0°る	1/ 702/	morning set	0277 Jan 01 00.10	- U 3403	
	5275 Jan 05 04.50	υ O					

superior conj	8244 Jan 12 00:07	23° る 32'53	0°20'14		8244 Dec 21 00:07	ල°ප	
minimum elong	8244 Jan 12 01:53	23° ප් 40'30	0°20'07		0211 00:07	° C	
desc. node	8244 Jan 14 18:04	28° る 14'37		superior conj	8244 Dec 24 05:03	5° る 54'42	0°53'29
	8244 Jan 15 19:05	0°≈		minimum elong	8244 Dec 24 08:23	6° ප 09'54	0°53'10
max. Earth dist.	8244 Jan 19 09:39	5° ≈ 58'56	1.42950 AU	desc. node	8244 Dec 31 15:04	18° る 59'43	
evening rise	8244 Jan 26 00:02	16° ≈ 33'42		max. Earth dist.	8244 Dec 31 19:29	19° る 18'32	1.41006 AU
	8244 Feb 03 18:38	0° ∀		evening rise	8245 Jan 05 11:32	27° る 06'04	
	8244 Feb 25 23:25	0 ° $\mathbf{\Upsilon}$			8245 Jan 07 06:23	0° ≈	
evening max el	8244 Feb 26 23:53	1° Y 03'40	21°57'05		8245 Jan 27 10:53	0° ℋ	
retrograde	8244 Mar 07 07:35	6° Ƴ 34'59		evening max el	8245 Feb 08 15:29		23°16'33
asc. node	8244 Mar 07 23:47	6° Ƴ 32'39		retrograde	8245 Feb 19 02:38	20°) 57'46	
evening set	8244 Mar 11 19:35	4° Y 45'35		asc. node	8245 Feb 22 20:52	19°) 47′58	
	8244 Mar 16 00:07	30° ₹		evening set	8245 Feb 24 02:16	18° 米 53′31	
inferior conj	8244 Mar 17 03:17	28°) (26'09	2°36'40	inferior conj	8245 Mar 01 11:52	12°) €27'19	
minimum elong	8244 Mar 17 01:04	28°\(\)33'52	2°36'07	minimum elong	8245 Mar 01 09:40	12°) (34'53	2°00'50
min. Earth dist.	8244 Mar 17 03:50	28°) (14151	0.68381 AU	min. Earth dist.	8245 Mar 01 00:33	13° ¥ 06'16	0.68366 AU
morning rise	8244 Mar 22 06:23	22°) 14'51		morning rise	8245 Mar 06 17:02	6° ∺ 21'10	
direct	8244 Mar 27 03:41	20° 米 09′20 25° 米 51′07	22820107	direct	8245 Mar 11 00:24	4° ∺ 38'06 9° ∺ 30'50	21806128
morning max el	8244 Apr 05 19:51	25° π 3107	22°30'06	morning max el desc. node	8245 Mar 19 11:44 8245 Mar 29 14:44	21° X 55'38	21°06'38
desc. node	8244 Apr 09 14:34 8244 Apr 11 17:48	0° γ 2° Υ 35'24		desc. node	8245 Mar 29 14:44 8245 Apr 04 07:29	21°π33'38 0° Υ	
desc. node	8244 Apr 11 17:48 8244 May 01 01:26	0° 8		morning sat	8245 Apr 19 05:24	22° Υ 34'03	
morning set	8244 May 09 15:10	13° 8 35'29		morning set	8245 Apr 23 21:43	0° 8	
max. Earth dist.	8244 May 14 13:08	21° 8 46'23	1.40578 AU	max. Earth dist.	8245 Apr 26 16:22	_	1.42634 AU
max. Dartii dist.	8244 May 19 07:26	0° I	1.40370710	max. Earth dist.	0243 Apr 20 10.22	4 02/3/	1.42054 710
	0211111ay 19 07.20	V 1		superior conj	8245 May 03 20:35	16° 8 28'28	-2°04'11
superior conj	8244 May 22 08:11	5° Ⅱ 23'53	-1°42'57	minimum elong	8245 May 04 01:14	16° 8 48'16	
minimum elong	8244 May 22 13:59	5° Ⅱ 50'01	1°42'27		8245 May 11 14:37	0°II	
evening rise	8244 Jun 01 10:57	24° Ⅱ 09'40		evening rise	8245 May 15 10:18	6° Ⅱ 50′28	
asc. node	8244 Jun 03 22:44	28° ∏ 50′10		asc. node	8245 May 21 19:47	18° Ⅱ 12'14	
	8244 Jun 04 13:45	0°99			8245 May 29 11:08	0°9	
evening max el	8244 Jun 17 12:45	19° 9 54'40	18°21'53	evening max el	8245 May 31 23:57	2°\$52'09	18°06'15
retrograde	8244 Jun 24 22:25	23°536'59		retrograde	8245 Jun 07 16:08	6°9316'41	
evening set	8244 Jun 27 04:02	23° © 17'35		evening set	8245 Jun 10 05:14	5° 5 47'03	
inferior conj	8244 Jul 04 14:06	18° 5 41'09	1°11'45	inferior conj	8245 Jun 16 21:53	0° © 50'30	2°18'44
minimum elong	8244 Jul 04 16:24	18° 5 36'22	1°10'48	minimum elong	8245 Jun 17 00:56	0°543'13	2°17'46
min. Earth dist.	8244 Jul 07 23:27	15° © 54'53	0.58524 AU		8245 Jun 17 18:54	30° Ŗ Ⅱ	
desc. node	8244 Jul 08 17:13	15° 5 20'56		min. Earth dist.	8245 Jun 20 03:17	27° Ⅱ 46'57	0.60756 AU
morning rise	8244 Jul 12 01:29	13° © 11'00		morning rise	8245 Jun 23 18:05	24° ∏ 55'12	
direct	8244 Jul 18 04:19	11° © 32'07		desc. node	8245 Jun 25 14:16	23° II 52'53	
morning max el	8244 Aug 01 13:40	19° © 16'02	27°13'39	direct	8245 Jun 30 08:32	22° ∏ 45′22	
	8244 Aug 10 16:07	$0^{\circ}\Omega$			8245 Jul 13 21:52	0°€	
	8244 Aug 28 12:16	0° m		morning max el	8245 Jul 14 15:49	0°5643'47	27°51'16
asc. node	8244 Aug 30 22:10	4° m 54'29			8245 Aug 04 19:55	0°N	
morning set	8244 Sep 01 04:27	7° m 32'43		morning set	8245 Aug 16 09:00	21° £ 54'04	
	9244 9 09 04-46	220 m 50110	1015124	asc. node	8245 Aug 17 19:08	24° Ω 52'25	
superior conj minimum elong	8244 Sep 08 04:46 8244 Sep 08 02:32	22° m 50'10 22° m 37'46	1°15'34 1°15'13	max. Earth dist.	8245 Aug 20 04:45 8245 Aug 22 08:54	0° Т р 4° Тр 44'08	1.31799 AU
max. Earth dist.	8244 Sep 08 02.32 8244 Sep 07 23:33	-		max. Earth dist.	6243 Aug 22 06.34	4 11/4400	1.31/99 AU
max. Earth dist.	8244 Sep 11 10:24	0° ت	1.51001 AC	superior conj	8245 Aug 23 15:42	7° m 33'41	0°56'40
evening rise	8244 Sep 14 23:33	0 — 7° Ω 41'28		minimum elong	8245 Aug 23 13:42 8245 Aug 23 13:35	7° m) 21'59	0°56'12
evening rise	8244 Sep 26 12:41	0°M		evening rise	8245 Aug 30 09:55	22° m 22'49	0 30 12
desc. node	8244 Oct 04 16:03	12°M39'00		evening rise	8245 Sep 03 01:24	0° ರ	
evening max el	8244 Oct 14 11:08	24°M10'46	26°32'14		8245 Sep 21 09:35	0°M	
* · · · · · · · · · · · · · · · · · · ·	8244 Oct 22 16:36	0° ∡ 7		desc. node	8245 Sep 21 13:09	0°M10'44	
retrograde	8244 Oct 28 09:02	1° ≯ 17'28		evening max el	8245 Sep 26 04:24	5°M10'43	25°16'19
Č	8244 Nov 02 22:44	30°RM₊		retrograde	8245 Oct 10 01:56	12°MJ11'48	
evening set	8244 Nov 04 02:12	29°M25'43		evening set	8245 Oct 15 21:46	10°M54'01	
min. Earth dist.	8244 Nov 08 00:40	26°M50'46	0.59463 AU	min. Earth dist.	8245 Oct 20 16:09	8°M14'13	0.57448 AU
inferior conj	8244 Nov 11 05:33	24°M21'29	-4°32'29	inferior conj	8245 Oct 23 14:44	6°M15'02	-5°20'33
minimum elong	8244 Nov 11 12:49	24°M07'19	4°30'33	minimum elong	8245 Oct 23 19:37	6°M06'46	5°19'52
morning rise	8244 Nov 19 01:46	19°M45'27		morning rise	8245 Oct 31 19:49	2°M01'56	
direct	8244 Nov 21 07:22	19°M27'38		direct	8245 Nov 03 05:57	1°M44'34	
asc. node	8244 Nov 26 21:45	21°M26'27		morning max el	8245 Nov 12 04:36	6°M00'46	19°02'24
morning max el	8244 Nov 29 02:12	23°M16'48	18°17'08	asc. node	8245 Nov 13 18:45	7° M 39'37	
	8244 Dec 04 10:55	0° ∡ 7			8245 Nov 27 10:39	0° ⊀ ⁷	
morning set	8244 Dec 14 21:40	18° ≯ 27'56		morning set	8245 Nov 28 20:43	2° ҂ 147'37	

asc. node

8247 Oct 18 12:46

13°**£**08'27

	8247 Oct 27 10:31	0° M		asc. node	8248 Oct 04 09:44	1° ≏ 56'39	
morning set	8247 Oct 28 11:43	2°M10'53		morning set	8248 Oct 11 23:09	17° ≏ 00'57	
					8248 Oct 17 23:42	0° M	
superior conj	8247 Nov 04 16:42	17°M23'11	1°40'17				
minimum elong	8247 Nov 04 17:28	17°M27'07	1°40'24	superior conj	8248 Oct 18 22:10	2°M01'09	1°40'52
max. Earth dist.	8247 Nov 08 19:45	25°M51'48 0°⊀	1.34878 AU	minimum elong	8248 Oct 18 21:40	1°M58'29	1°40'57
evening rise	8247 Nov 10 21:42 8247 Nov 13 02:08	0° × ° 4° × ⁷ 13'45		max. Earth dist. evening rise	8248 Oct 21 16:03 8248 Oct 26 14:07	7°M52'36 17°M58'55	1.33399 AU
desc. node	8247 Nov 13 02:08 8247 Nov 22 06:10	20°×739'44		evening rise	8248 Nov 01 21:44	0° ⊼ ¹	
dese. Hode	8247 Nov 28 01:18	0°중		desc. node	8248 Nov 08 03:14	0 ✓ 10° ✓ 44'31	
evening max el	8247 Dec 18 07:27	26° る 02'32	26°45'12	dese. Hode	8248 Nov 21 08:35	0°ਰ	
Č	8247 Dec 22 23:31	0° ≈		evening max el	8248 Nov 29 20:09	9° ප් 29'48	27°20'44
retrograde	8247 Dec 31 09:48	3° ≈ 20'11		retrograde	8248 Dec 13 08:42	16° ප් 49'41	
evening set	8248 Jan 06 22:22	0° ≈ 45′05		evening set	8248 Dec 20 06:37	14° る 14'09	
	8248 Jan 07 19:31	30°Rる		min. Earth dist.	8248 Dec 24 02:32		0.64507 AU
min. Earth dist.	8248 Jan 10 23:37		0.66010 AU	inferior conj	8248 Dec 26 11:55	8° ප 10'27	
inferior conj	8248 Jan 12 21:18	24° る 27'14		minimum elong	8248 Dec 26 14:54	8° る 02'25	1°36'28
minimum elong	8248 Jan 12 22:13	24° る 24'32	0°32'02	asc. node	8248 Dec 31 09:08	3° ට 39'28	
asc. node	8248 Jan 14 12:06	22° る 35'49		morning rise	8249 Jan 02 00:45	2°る44'24	
morning rise	8248 Jan 18 23:04 8248 Jan 21 19:54	18°る47'13 18°る01'41		direct	8249 Jan 04 13:38 8249 Jan 11 00:18	2° ප 11'19 5° ප 33'51	17°54'05
direct morning max el	8248 Jan 28 07:33	18 30141 21° る 30'00	18°17'37	morning max el	8249 Jan 27 08:14	0°≈	17 34 03
morning max er	8248 Feb 04 00:59	0°≈	16 1/3/	morning set	8249 Jan 28 05:01	0 ∞ 1°≈27'19	
morning set	8248 Feb 16 16:20	0 ~ 19° ≈ 51'32		desc. node	8249 Feb 04 02:31	12°≈56'49	
desc. node	8248 Feb 18 05:35	22°≈21'01		dese. Hode	02.9100 0. 02.31	12 10 00 19	
	8248 Feb 23 00:29	0°) €		superior conj	8249 Feb 10 17:56	23° ≈ 44'40	-0°46'48
				minimum elong	8249 Feb 10 12:34	23° ≈ 23'04	0°45'57
superior conj	8248 Mar 03 02:50	14°) €21'43	-1°29'32		8249 Feb 14 16:11	0° ∀	
minimum elong	8248 Mar 02 17:23	13°) (44′40	1°28'29	max. Earth dist.	8249 Feb 15 09:43	1° ∺ 09'15	1.45039 AU
max. Earth dist.	8248 Mar 04 14:05	16°) 39′52	1.45517 AU	evening rise	8249 Feb 26 18:21	18°) 4 9′16	
	8248 Mar 13 02:52	0° Υ			8249 Mar 06 02:16	0° Υ	
evening rise	8248 Mar 19 03:51	9° Y 26'49		greatest brilliancy	8249 Mar 13 14:24	11°Υ11'26	-0.6m
greatest brilliancy	8248 Mar 30 04:15	26° Y 35'52	-0.8m	evening max el	8249 Mar 25 15:10	26° Y 52'47	20°05'47
aga mada	8248 Apr 01 10:09	0° と 13° と 15'13		asc. node	8249 Mar 29 08:06	% 00,000	
asc. node evening max el	8248 Apr 11 11:03 8248 Apr 11 11:01	13° 8 15'10	19°10'48	retrograde	8249 Mar 29 08:06 8249 Apr 02 08:10	1° 8 20'56	
retrograde	8248 Apr 18 09:49	17° 8 09'59	17 10 40	evening set	8249 Apr 06 04:12	29°Y55'27	
evening set	8248 Apr 21 21:19	15° 8 59'27		evening sec	8249 Apr 06 01:44	30°R Y	
inferior conj	8248 Apr 27 08:48	10° 8 10'53	3°23'10	inferior conj	8249 Apr 11 12:25	23° Y 52'51	3°13'30
minimum elong	8248 Apr 27 08:28	10° 8 11'59		minimum elong	8249 Apr 11 11:03	23° Y 57'28	3°13'16
min. Earth dist.	8248 Apr 28 20:14	8° 8 16'52	0.66428 AU	min. Earth dist.	8249 Apr 12 09:23	22° Y 41'54	0.67528 AU
morning rise	8248 May 02 19:13	3° 8 52'54		morning rise	8249 Apr 16 17:41	17° Y 35'58	
direct	8248 May 09 02:02	1° 8 07'36		direct	8249 Apr 22 12:34	15° Y 01′00	
desc. node	8248 May 16 05:18	3° 8 51'34		desc. node	8249 May 03 02:16	20° Y 55'19	
morning max el	8248 May 21 19:25	8° 8 42'44	26°11'58	morning max el	8249 May 04 04:52	22° Y 00′56	24°50'41
	8248 Jun 07 11:25	0° I I			8249 May 11 04:00	8°0	
marning gat	8248 Jun 25 15:17	0°ഇ 2° © 17'19		marning gat	8249 May 31 18:07	0°耳 14°耳18'40	
morning set max. Earth dist.	8248 Jun 26 21:01 8248 Jun 30 19:12	2 \$317 19 9°\$45'27	1.35080 AU	morning set max. Earth dist.	8249 Jun 09 04:25 8249 Jun 12 19:16	20° I I50'20	1.37058 AU
man. Barui Uist.	0270 Juli 30 17.12) 	1.55000 AU	max. Earm uist.	8249 Jun 17 16:04	20 11 30 20 0° 9	1.57056 AU
superior conj	8248 Jul 05 23:47	20° © 07'01	-0°24'14		021) Juli 17 10.01	~~	
minimum elong	8248 Jul 06 01:11	20°514'10		superior conj	8249 Jun 19 09:47	3°522'20	-0°56'02
asc. node	8248 Jul 08 10:10	25° © 07'27		minimum elong	8249 Jun 19 13:13	3° 5 39'08	0°55'35
	8248 Jul 10 18:26	$0^{\circ}\Omega$		asc. node	8249 Jun 25 07:10	15° © 05'58	
evening rise	8248 Jul 13 16:58	6° Ω 06′29		evening rise	8249 Jun 27 20:20	20°©13'35	
	8248 Jul 26 21:10	0° т р			8249 Jul 02 20:08	0 ° Ω	
evening max el	8248 Aug 01 05:48	6° Mp 28′43	20°35'20	evening max el	8249 Jul 14 18:56		19°27'13
retrograde	8248 Aug 12 11:17	12° mp 01'58		retrograde	8249 Jul 24 07:34	22° Ω 35'36	
desc. node	8248 Aug 12 04:26	12° Mp 01'46		evening set	8249 Jul 26 04:06	22° Ω 25'39	
evening set	8248 Aug 14 12:45	11° Mp 51'32	2024107	desc. node	8249 Jul 30 01:30	21° Ω 07'12	1020115
inferior conj minimum elong	8248 Aug 23 17:39 8248 Aug 23 08:48	7° Mp 54'29 8° Mp 07'12		inferior conj minimum elong	8249 Aug 03 20:46 8249 Aug 03 16:47	18° Ω 19'14 18° Ω 25'39	
min. Earth dist.	8248 Aug 23 08:48 8248 Aug 24 20:09	7° Mg 16'20	0.54780 AU	min. Earth dist.	8249 Aug 05 16:47 8249 Aug 06 08:44	18° Ω 42'50	0.55669 AU
morning rise	8248 Sep 01 04:33	3° Mp 52'26	0.5 T/00 M	morning rise	8249 Aug 12 02:53	13° Ω 45'00	0.55007 AU
direct	8248 Sep 05 06:16	3° Mp 16'55		direct	8249 Aug 16 23:51	12° Ω 51'25	
morning max el	8248 Sep 18 12:18	-	23°22'20	morning max el	8249 Aug 31 00:52		25°06'45
Č	8248 Oct 03 07:56	0∘ ⊽		Č	8249 Sep 08 15:05	0° mp	
					-		

desc. node	8251 Jul 03 19:37	6°904'02		desc. node	8252 Jun 19 16:39	15° ∏ 33'47	
morning rise	8251 Jul 04 20:51	5° 5 24'39		direct	8252 Jun 22 14:23	15° Ⅱ 07'46	
direct	8251 Jul 11 05:49	3°931'53		morning max el	8252 Jul 06 19:01	23° I 108'25	27°55'40
morning max el	8251 Jul 25 14:29	11°9522'52	27°34'14		8252 Jul 12 21:24	0.ಪ	_, _, _,
. 8	8251 Aug 09 03:35	0°N			8252 Aug 01 09:29	$0^{\circ}\Omega$	
	8251 Aug 25 16:28	0° m		morning set	8252 Aug 09 06:23	15° Ω 14'14	
morning set	8251 Aug 26 04:12	1° m 01'14		asc. node	8252 Aug 11 21:39	20° Ω 43'43	
asc. node	8251 Aug 26 00:39	0° m 42'38		max. Earth dist.	8252 Aug 14 22:36	27° Ω 15'17	1.32001 AU
max. Earth dist.	8251 Sep 01 14:39	14° m 57'34	1.31662 AU		8252 Aug 16 04:47	0° m	
superior conj	8251 Sep 02 06:51	16° Mp 27'19	1°08'08	superior conj	8252 Aug 16 16:55	1°Mp06'27	0°47'17
minimum elong	8251 Sep 02 04:36	16° Mp 14'52	1°07'43	minimum elong	8252 Aug 16 15:00	0° m ,55′55	0°46'49
	8251 Sep 08 10:43	0∘ ರ		evening rise	8252 Aug 23 12:04	15° m 58'31	
evening rise	8251 Sep 09 00:53	1° ≏ 15'55			8252 Aug 30 09:36	0∘ ⊽	
	8251 Sep 24 11:40	0°M		desc. node	8252 Sep 15 15:35	24° △ 33'12	
desc. node	8251 Sep 29 18:29	7°M34'57		evening max el	8252 Sep 18 00:33	26° ≏ 59'28	24°37'17
evening max el	8251 Oct 07 10:04	16° M ₁7'46	26°03'20		8252 Sep 21 13:18	0° M	
retrograde	8251 Oct 21 08:20	23°M21'47		retrograde	8252 Oct 01 19:50	3°M55'53	
evening set	8251 Oct 27 17:56	21°M44'07		evening set	8252 Oct 07 02:53	2°M53'27	
min. Earth dist.	8251 Oct 31 22:59	19°M09'13	0.58579 AU	min. Earth dist.	8252 Oct 12 11:34	0°M06'04	0.56684 AU
inferior conj	8251 Nov 04 02:32	16°M50'56			8252 Oct 12 15:28	30° ₹ Ω	
minimum elong	8251 Nov 04 09:17	16°M38'31	4°54'29	inferior conj	8252 Oct 15 03:06	28° Ω 24'46	
morning rise	8251 Nov 12 02:57	12°M24'21		minimum elong	8252 Oct 15 05:39	28° Ω 20'42	5°31'22
direct	8251 Nov 14 09:51	12°M07'03		morning rise	8252 Oct 23 10:36	24° Ω 20'31	
asc. node	8251 Nov 22 00:14	15°M31'21		direct	8252 Oct 26 00:33	24° Ω 02'15	
morning max el	8251 Nov 22 15:29	16°M06'50	18°33'39	morning max el	8252 Nov 04 13:09	28° △ 32'45	19°28'26
	8251 Dec 02 09:48	0° ∡ 7			8252 Nov 05 23:26	0°M	
morning set	8251 Dec 08 17:30	11° ≯ 51′05		asc. node	8252 Nov 07 21:15	2°M14'29	
				morning set	8252 Nov 21 19:43	26°M19'35	
superior conj	8251 Dec 17 13:50	28° 🖈 46'55	1°04'48		8252 Nov 23 15:33	0° ∡ 7	
minimum elong	8251 Dec 17 17:15	29° ₹ 02'51	1°04'31		005031 00 10 10	120 310174	1005101
To all the	8251 Dec 18 05:34	0°る	1 40104 411	superior conj	8252 Nov 29 19:48	12° √ 19'54	
max. Earth dist.	8251 Dec 24 22:47	12°る04'09	1.40104 AU	minimum elong	8252 Nov 29 22:33	12° 🗷 33'26	1°24'55
desc. node	8251 Dec 26 17:28 8251 Dec 29 03:28	15°る08'08 19°る13'09		max. Earth dist.	8252 Dec 06 04:44	24° メ 26'27 0°る	1.37937 AU
evening rise	8251 Dec 29 03:28 8252 Jan 04 19:11	0°≈		ovenina rice	8252 Dec 09 06:38 8252 Dec 09 22:08	0°る 1°る08'32	
	8252 Jan 25 21:29	0 ≈		evening rise desc. node		1 008 32 5° る 47'42	
avaning may al	8252 Feb 01 22:12	0 X 7° ¥ 57'26	23°50'46	desc. node	8252 Dec 12 14:30 8252 Dec 28 00:44	0°≈	
evening max el	8252 Feb 01 22.12 8252 Feb 12 20:39	14° H 23'41	23 30 40	evening max el	8253 Jan 14 11:25	0 ≈ 21°≈44'29	25007/41
retrograde asc. node	8252 Feb 17 23:21	12° H 18'16		retrograde	8253 Jan 26 10:01	21 ≈44 29 28°≈39'34	23 0/41
evening set	8252 Feb 18 01:31	12° X 13'41		evening set	8253 Feb 01 03:39	26°≈16'45	
min. Earth dist.	8252 Feb 22 20:17	6°) (41'01	0.68244 AU	asc. node	8253 Feb 03 20:26	23°≈30'44	
inferior conj	8252 Feb 23 12:25	5°) (46'07	1°44'00	min. Earth dist.	8253 Feb 05 14:48	23 ≈30 44 21°≈18'43	0.67672 AU
minimum elong	8252 Feb 23 10:22	5° ¥ 53'05	1°43'22	inferior conj	8253 Feb 06 18:24	19° ≈ 48'40	0°57'00
viong	8252 Feb 28 10:32	30°R≈	1 .3 22	minimum elong	8253 Feb 06 17:04	19° ≈ 53'01	0°56'35
morning rise	8252 Feb 28 19:12	29° ≈ 42'34		morning rise	8253 Feb 12 06:47	13°≈52'44	0 0000
direct	8252 Mar 03 21:00	28°≈08'46		direct	8253 Feb 15 20:03	12° ≈ 40'10	
	8252 Mar 08 17:43	0°) €		morning max el	8253 Feb 23 00:16	16° ≈ 39'04	19°28'46
morning max el	8252 Mar 11 21:23	2°) 42'42	20°34'23	Č	8253 Mar 05 10:41	0°) €	
desc. node	8252 Mar 23 17:06	17°) 38′05		greatest brilliancy	8253 Mar 07 19:40	3° ¥ 28'53	-0.7m
	8252 Apr 01 03:48	$0^{\circ}\Upsilon$		desc. node	8253 Mar 10 14:03	7°) €36'58	
morning set	8252 Apr 09 23:22	13° Y 26'56		morning set	8253 Mar 19 21:25	21°)(49'48	
max. Earth dist.	8252 Apr 18 20:28	27° Y 29'28	1.43396 AU	C	8253 Mar 25 04:03	0° Y	
	8252 Apr 20 09:39	9° 8		max. Earth dist.	8253 Apr 01 09:55	11° Y ′21′06	1.44762 AU
superior conj	8252 Apr 25 09:01	8° 8 11'31		superior conj	8253 Apr 05 10:27	17° Y ′44'53	
minimum elong	8252 Apr 25 11:59	8° 8 23'56	2°09'28	minimum elong	8253 Apr 05 06:57	17° Ƴ 30'53	2°09'26
evening rise	8252 May 07 15:35	29° 8 18'32			8253 Apr 12 23:52	0°8	
	8252 May 08 01:00	0°II		evening rise	8253 Apr 19 10:59	10° 8 43'23	
asc. node	8252 May 15 22:17	13° Ⅲ 38'52			8253 May 01 05:00	0°Π	
evening max el	8252 May 24 16:36	25° Ⅱ 49'37	18°05'27	asc. node	8253 May 02 19:21	2° ∏ 23′10	
retrograde	8252 May 31 04:28	29° Ⅱ 10'51		evening max el	8253 May 08 05:53	9° Ⅱ 12'44	18°16'48
evening set	8252 Jun 02 20:50	28° Ⅲ 35'57		retrograde	8253 May 14 15:15	12° Ⅱ 37'17	
inferior conj	8252 Jun 09 07:13	23° Ⅲ 31′03	2°39'01	evening set	8253 May 17 14:46	11° Ⅱ 49'23	****
minimum elong	8252 Jun 09 10:03	23° Ⅲ 23'52		inferior conj	8253 May 23 13:23	6° Ⅱ 26'14	
min. Earth dist.	8252 Jun 12 08:13	20° I I27'51	0.61714 AU	minimum elong	8253 May 23 15:08	6° Ⅱ 21'18	3°10'06
morning rise	8252 Jun 15 21:13	17° Ⅱ 28'42		min. Earth dist.	8253 May 26 00:52	3° Ⅱ 38'17	0.63812 AU

		_					
morning rise	8253 May 29 14:17	0° Ⅱ 12'48		retrograde	8254 Apr 28 08:56	26° 8 25'59	
	8253 May 29 20:51	30° ₹8		evening set	8254 May 01 15:47	25° 8 24'05	
direct	8253 Jun 05 08:02	27° 8 32'54		inferior conj	8254 May 07 06:25	19° 8 44'25	3°22'56
desc. node	8253 Jun 06 13:40	27° 8 37'48		minimum elong	8254 May 07 06:48	19° 8 43'14	3°22'48
	8253 Jun 12 11:50	Π $^{\circ}0$		min. Earth dist.	8254 May 09 02:40	17° 8 27'35	0.65588 AU
morning max el	8253 Jun 19 04:00	5° Ⅱ 34'24	27°39'30	morning rise	8254 May 12 21:11	13° 8 26'41	
	8253 Jul 07 16:38	0°€		direct	8254 May 19 09:21	10° 8 39'42	
morning set	8253 Jul 24 01:07	29° © 02'45		desc. node	8254 May 24 10:39	12° 8 02'31	
C	8253 Jul 24 12:37	$\Omega^{\circ}\Omega$		morning max el	8254 Jun 01 14:31	18° 8 29'30	26°51'04
max. Earth dist.	8253 Jul 29 00:11	9° Ω 11'51	1.32816 AU		8254 Jun 11 07:16	0°II	
asc. node	8253 Jul 29 18:38	10° Ω 49'04	1.52010110		8254 Jun 30 16:09	0°es	
asc. node	0233 Jul 27 10.30	10 6647 04		morning set	8254 Jul 07 09:26	12° © 18'46	
	0252 I-1 21 22.22	150 020125	0922111	•	8254 Jul 11 15:55		1 24116 ATT
superior conj	8253 Jul 31 23:23	15° Ω 30'35	0°22'11	max. Earth dist.	8254 Jul 11 15:55	20° © 40'26	1.34116 AU
minimum elong	8253 Jul 31 22:20	15° Ω 24'55	0°21'50				
evening rise	8253 Aug 07 23:40	0°№38'35		superior conj	8254 Jul 16 00:07	29° © 33'58	
	8253 Aug 07 16:26	0° m y		minimum elong	8254 Jul 16 00:29	29° © 35'51	0°06'35
	8253 Aug 24 07:51	0∘ ⊽		behind sun begin	8254 Jul 15 19:13	29° © 08'29	
evening max el	8253 Aug 30 11:48	7° £ 12'49	22°58'24	behind sun end	8254 Jul 16 05:44	0° Ω 03′16	
desc. node	8253 Sep 02 12:41	9° £ 51'36			8254 Jul 16 05:06	$0^{\circ}\Omega$	
retrograde	8253 Sep 12 19:10	13° ≙ 51'47		asc. node	8254 Jul 16 15:37	0° Ω 54'59	
evening set	8253 Sep 16 14:01	13° ≏ 20'24		evening rise	8254 Jul 23 09:48	15° Ω 10'47	
min. Earth dist.	8253 Sep 23 20:20	10° £ 02'41	0.55287 AU	C	8254 Jul 30 21:12	0° m∕	
inferior conj	8253 Sep 25 08:18	9° £ 10′50		evening max el	8254 Aug 12 04:59	17° m) 34'57	21°23'25
minimum elong	8253 Sep 25 03:24	9° £ 17'55		desc. node	8254 Aug 20 09:45	22° m 58'32	21 23 23
morning rise	8253 Oct 03 18:53	5° £ 21'24	3 23 30		8254 Aug 24 08:48	23° m/36'35	
_				retrograde	•		
direct	8253 Oct 06 20:06	4° £ 59'36	20045126	evening set	8254 Aug 26 20:16	23° m/22'29	4021122
morning max el	8253 Oct 17 22:08	10° Ω 10'48	20°45'36	inferior conj	8254 Sep 05 01:46	19° m 24'46	
asc. node	8253 Oct 25 18:15	19° ≏ 56'14		minimum elong	8254 Sep 04 16:17	19° m 38'04	4°19'06
	8253 Oct 31 14:20	0°M₊		min. Earth dist.	8254 Sep 05 05:08	19° m 20'02	0.54691 AU
morning set	8253 Nov 06 03:09	11°M00'55		morning rise	8254 Sep 13 13:06	15° Mp 32'52	
				direct	8254 Sep 17 04:55	15° m 03'54	
superior conj	8253 Nov 13 13:35	26°M26'03	1°36'53	morning max el	8254 Sep 29 18:52	21° m 01'58	22°21'49
minimum elong	8253 Nov 13 15:07	26°™33'52	1°36'57		8254 Oct 07 08:33	0∘ ত	
	8253 Nov 15 07:42	0° ∡ ¹		asc. node	8254 Oct 12 15:13	8° ء 23'19	
max. Earth dist.	8253 Nov 18 12:52	6° х 22′29	1.35902 AU	morning set	8254 Oct 21 13:38	25° ≏ 48'57	
evening rise	8253 Nov 22 11:52	13° √ 54'11		. 8	8254 Oct 23 12:59	0°M₊	
desc. node	8253 Nov 29 11:34	26° ≯ 18'00			020 1 001 25 12.07	o 110	
dese. Hode	8253 Dec 01 16:44	0°중		superior conj	8254 Oct 28 15:36	10°M54'47	1°41'20
		0°≈		1 3	8254 Oct 28 15:48		
·	8253 Dec 22 20:56		2601.4122	minimum elong		10°M55'51	1°41'26
evening max el	8253 Dec 28 00:26	5°≈30'15	26°14'23	max. Earth dist.	8254 Nov 01 03:55	18°M15'30	1.34192 AU
retrograde	8254 Jan 09 18:30	12° ≈ 43'37		evening rise	8254 Nov 05 16:49	27°M20'31	
evening set	8254 Jan 16 00:32	10°≈11'22			8254 Nov 07 01:56	0° ∡	
min. Earth dist.	8254 Jan 20 05:05	5° ≈ 47'57	0.66717 AU	desc. node	8254 Nov 16 08:37	16° ∡ ³33'49	
inferior conj	8254 Jan 21 20:12	3° ≈ 47'56	0°02'15		8254 Nov 24 23:41	0°₹	
minimum elong	8254 Jan 21 20:08	3° ≈ 48′08	0°02'21	evening max el	8254 Dec 10 13:35	19° る 07'33	27°03'28
transit middle	8254 Jan 21 20:08	3° ≈ 48′08	0°02'21	retrograde	8254 Dec 23 21:17	26° る 27'55	
transit begin	8254 Jan 21 17:17	3°≈56'52		evening set	8254 Dec 30 14:06	23° る 51'42	
transit end	8254 Jan 21 22:58	3°≈39'24		min. Earth dist.	8255 Jan 03 12:53	20° る 02'22	0.65403 AU
asc. node	8254 Jan 21 17:31	3°≈56'12		inferior conj	8255 Jan 05 15:36	17° る 38'50	-0°59'36
	8254 Jan 25 04:28	30°Rる		minimum elong	8255 Jan 05 17:21	17° る 33'53	
morning rise	8254 Jan 27 16:28	28° පි 01'32		asc. node	8255 Jan 08 14:34	17 3 33 35	0 30 42
•							
direct	8254 Jan 30 18:42	27° る 07'19		morning rise	8255 Jan 11 21:52	12°る04'22	
	8254 Feb 05 15:53	0° ≈		direct	8255 Jan 14 14:57	11° る 24'44	
morning max el	8254 Feb 06 10:22	0° ≈ 43'43	18°38'49	morning max el	8255 Jan 21 01:28	14° る 49'47	18°05'29
desc. node	8254 Feb 25 11:00	27° ≈ 54'27			8255 Feb 01 00:34	0° ≈	
	8254 Feb 26 18:55	0° ∀		morning set	8255 Feb 08 08:55	11° ≈ 57'22	
morning set	8254 Feb 27 12:36	1°) €09'35		desc. node	8255 Feb 12 07:57	18° ≈ 24'52	
max. Earth dist.	8254 Mar 15 03:35	25°) ₹39'45	1.45449 AU		8255 Feb 19 12:48	0°) €	
superior conj	8254 Mar 15 18:09	26°) (36′50	-1°49'23	superior conj	8255 Feb 23 01:08	5°) (34'16	-1°12'14
minimum elong	8254 Mar 15 09:01	26°) (01'04		minimum elong	8255 Feb 22 16:55	5° ₩ 01'50	
	8254 Mar 17 22:00	0°Υ		max. Earth dist.	8255 Feb 25 23:01	10° ¥ 09'10	1.45399 AU
avaning rise		21° Υ 09'50		man. Darui uist.		10 χ 0910	1.73377 AU
evening rise	8254 Mar 31 06:52			avaniri	8255 Mar 10 17:04		
1 '11'	8254 Apr 05 19:29	0° 8	0.0	evening rise	8255 Mar 11 05:26	0°Υ47'52	0.7
greatest brilliancy	8254 Apr 08 05:49	3° 8 52'01	-0.9m	greatest brilliancy	8255 Mar 24 05:16	20° Y 42'31	-0.7m
asc. node	8254 Apr 19 16:25	20° 8 30'39			8255 Mar 30 16:59	0° 8	
evening max el	8254 Apr 21 17:10	22° 8 45'18	18°46'13	evening max el	8255 Apr 05 00:22	6° 8 22'16	19°32'25

	9255 A 06 12-20	7° 8 49'38			025 (E-L 10 17.02	1001/07/17	
asc. node	8255 Apr 06 13:30	_		evening rise	8256 Feb 18 17:03	10°) €07'17 0° °	
retrograde	8255 Apr 12 06:12	10° 8 30'11			8256 Mar 02 22:06		20022117
evening set	8255 Apr 15 21:08	9° 8 13'31	2020120	evening max el	8256 Mar 18 02:19	20° ℃ 01'20	20°33'17
inferior conj	8255 Apr 21 06:57	3° 8 18'58		asc. node	8256 Mar 23 10:33	24° Y ′06′37	
minimum elong	8255 Apr 21 06:08	3° 8 21'40	3°20'20	retrograde	8256 Mar 26 04:41	24° Y 45′17	
min. Earth dist.	8255 Apr 22 12:12	1° 8 42'34	0.66954 AU	evening set	8256 Mar 30 04:45	23° Y 13′24	
	8255 Apr 23 20:26	30° ₹Ƴ		inferior conj	8256 Apr 04 12:21	17° Ƴ 05'46	3°05'58
morning rise	8255 Apr 26 14:48	27° Ƴ 01'06		minimum elong	8256 Apr 04 10:40	17° Ƴ 11'34	3°05'39
direct	8255 May 02 16:56	24° Ƴ 18'47		min. Earth dist.	8256 Apr 05 03:34	16° Ƴ 13'35	0.67875 AU
desc. node	8255 May 11 07:38	28° Ƴ 16′39		morning rise	8256 Apr 09 16:21	10° Ƴ 50'07	
	8255 May 13 06:49	0°B		direct	8256 Apr 15 05:44	8° Ƴ 21'44	
morning max el	8255 May 15 00:19	1° 8 41'01	25°38'52	morning max el	8256 Apr 26 09:19	15° Ƴ 01'48	24°12'54
	8255 Jun 05 08:59	$\Pi^{\circ}0$		desc. node	8256 Apr 27 04:38	15° Ƴ 51'33	
morning set	8255 Jun 20 03:18	24° ∏ 50′49			8256 May 08 15:16	8° 0	
	8255 Jun 22 22:06	0°€			8256 May 28 07:04	$\Pi^{\circ}0$	
max. Earth dist.	8255 Jun 23 20:36	1°5946'12	1.35878 AU	morning set	8256 Jun 01 01:39	6° Ⅱ 25'24	
				max. Earth dist.	8256 Jun 04 17:56	12° Ⅱ 54'35	1.37997 AU
superior conj	8255 Jun 29 16:25	13° © 09'13	-0°37'40				
minimum elong	8255 Jun 29 18:40	13° © 20'28		superior conj	8256 Jun 11 20:56	26° Ⅱ 07'42	-1°09'27
asc. node	8255 Jul 03 12:37	20°957'15	0 0 / 20	minimum elong	8256 Jun 12 01:13	26° I I28'13	
evening rise	8255 Jul 07 16:18	29°528'40		minimum ciong	8256 Jun 13 21:07	0°95	1 00 50
evening rise	8255 Jul 07 10:10	0°Ω		asc. node	8256 Jun 19 09:37	10°951'47	
avanina may al	8255 Jul 25 10:33	28° Ω 33'58	20002154	evening rise	8256 Jun 20 16:40	10 \$3147 13°\$25'21	
evening max el	8255 Jul 27 00:06		20 03 34	evening rise		13 3 23 21 0° Ω	
. 1		0° Mp			8256 Jun 29 14:08		10004120
retrograde	8255 Aug 04 22:26	3° m/44'39		evening max el	8256 Jul 07 04:59	10° Ω 17'27	19°04'29
evening set	8255 Aug 06 20:06	3° Tp 35'12		retrograde	8256 Jul 16 01:05	14° Ω 39'42	
desc. node	8255 Aug 07 06:48	3°m/30'21		evening set	8256 Jul 17 23:13	14° Ω 28'08	
	8255 Aug 15 05:18	30°R Ω		desc. node	8256 Jul 24 03:52	11° Ω 41'29	
inferior conj	8255 Aug 15 21:17	29° Ω 36′09		inferior conj	8256 Jul 26 08:00	10° Ω 14'35	
minimum elong	8255 Aug 15 14:11	29° Ω 46'46		minimum elong	8256 Jul 26 06:18	10° Ω 17'31	
min. Earth dist.	8255 Aug 17 15:49	28° Ω 32'34	0.55050 AU	min. Earth dist.	8256 Jul 29 05:46	8° Ω 15'32	0.56303 AU
morning rise	8255 Aug 24 06:49	25° Ω 21'53		morning rise	8256 Aug 03 10:17	5° Ω 24'50	
direct	8255 Aug 28 16:41	24° Ω 39'33		direct	8256 Aug 08 16:15	4° £ 20′32	
	8255 Sep 09 19:46	0° m		morning max el	8256 Aug 22 21:10	11° Ω 36′59	25°47'29
morning max el	8255 Sep 11 08:07	1°Mp21′27	24°07'34		8256 Sep 06 01:19	0° m ∕	
asc. node	8255 Sep 29 12:12	27° Mp 24'56		asc. node	8256 Sep 15 09:10	16° Mp 51'32	
	8255 Sep 30 20:28	0∘ ⊽		morning set	8256 Sep 19 12:35	25° m 25'10	
morning set	8255 Oct 06 01:20	10° ≏ 38'55			8256 Sep 21 15:36	0∘ ত	
superior conj	8255 Oct 12 23:02	25° ≏ 37'54	1°39'14	superior conj	8256 Sep 26 09:36	10° ≏ 27'31	1°31'18
minimum elong	8255 Oct 12 22:05	25° ≏ 32'44	1°39'16	minimum elong	8256 Sep 26 07:49	10° ≏ 17'41	1°31'09
C	8255 Oct 14 23:31	o°M.		max. Earth dist.	8256 Sep 27 10:04	12° - 42′23	1.32063 AU
max. Earth dist.	8255 Oct 15 03:37	0°M22'00	1.32902 AU	evening rise	8256 Oct 03 10:05	25° ♀ 37'07	
evening rise	8255 Oct 20 09:18	11°M18'06		5 / 4 · · · · · · · · · · · · · · · · · ·	8256 Oct 05 13:21	0°M	
* · · · · · · · · · · · · · · · · · · ·	8255 Oct 30 08:34	0° ∡ 7		desc. node	8256 Oct 20 02:42	25°M53'10	
desc. node	8255 Nov 03 05:39	6° х 28'42		dese. node	8256 Oct 22 21:04	0° ₹	
dese. Hode	8255 Nov 20 15:39	0°る		evening max el			27021120
evening max el		0 0			8256 Nov. 04. 10:26		7 /~7 [7]
retrograde	8255 Nov. 23 01:45	20天25137	27°27'46	•	8256 Nov 04 10:26	15° ∡ 09'38	27°21'20
Č	8255 Nov 23 01:45	2°る25'37	27°27'46	retrograde	8256 Nov 18 06:15	22° ∡ °23′00	2/~21/20
arraning got	8255 Dec 06 17:30	9° ප් 44'23	27°27'46	retrograde evening set	8256 Nov 18 06:15 8256 Nov 25 08:31	22° х 23′00 20° х 03′08	
evening set	8255 Dec 06 17:30 8255 Dec 13 17:52	9°る44'23 7°る11'40		retrograde evening set min. Earth dist.	8256 Nov 18 06:15 8256 Nov 25 08:31 8256 Nov 29 00:48	22° х 23'00 20° х 03'08 17° х 12'11	0.61850 AU
min. Earth dist.	8255 Dec 06 17:30 8255 Dec 13 17:52 8255 Dec 17 12:05	9° ප 44'23 7° ප 11'40 3° ප 54'17	0.63763 AU	retrograde evening set min. Earth dist. inferior conj	8256 Nov 18 06:15 8256 Nov 25 08:31 8256 Nov 29 00:48 8256 Dec 02 00:34	22° 🖈 23'00 20° 🖈 03'08 17° 🖈 12'11 14° 🖈 29'20	0.61850 AU -3°17'00
min. Earth dist. inferior conj	8255 Dec 06 17:30 8255 Dec 13 17:52 8255 Dec 17 12:05 8255 Dec 20 02:06	9°る44'23 7°る11'40 3°る54'17 1°る15'36	0.63763 AU -2°07'01	retrograde evening set min. Earth dist. inferior conj minimum elong	8256 Nov 18 06:15 8256 Nov 25 08:31 8256 Nov 29 00:48 8256 Dec 02 00:34 8256 Dec 02 06:44	22° \$\times 23'00 20° \$\times 03'08 17° \$\times 12'11 14° \$\times 29'20 14° \$\times 15'16	0.61850 AU -3°17'00
min. Earth dist.	8255 Dec 06 17:30 8255 Dec 13 17:52 8255 Dec 17 12:05 8255 Dec 20 02:06 8255 Dec 20 06:04	9°る44'23 7°る11'40 3°る54'17 1°る15'36 1°る05'24	0.63763 AU -2°07'01	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	8256 Nov 18 06:15 8256 Nov 25 08:31 8256 Nov 29 00:48 8256 Dec 02 00:34 8256 Dec 02 06:44 8256 Dec 09 07:08	22° \$\times 23'00 20° \$\times 03'08 17° \$\times 12'11 14° \$\times 29'20 14° \$\times 15'16 9° \$\times 28'19	0.61850 AU -3°17'00
min. Earth dist. inferior conj minimum elong	8255 Dec 06 17:30 8255 Dec 13 17:52 8255 Dec 17 12:05 8255 Dec 20 02:06 8255 Dec 20 06:04 8255 Dec 21 08:01	9°정44'23 7°정11'40 3°정54'17 1°정15'36 1°정05'24 30°Rダ	0.63763 AU -2°07'01	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	8256 Nov 18 06:15 8256 Nov 25 08:31 8256 Nov 29 00:48 8256 Dec 02 00:34 8256 Dec 02 06:44 8256 Dec 09 07:08 8256 Dec 11 13:08	22° \$\times 23'00 20° \$\times 03'08 17° \$\times 12'11 14° \$\times 29'20 14° \$\times 15'16 9° \$\times 28'19 9° \$\times 06'25	0.61850 AU -3°17'00
min. Earth dist. inferior conj minimum elong asc. node	8255 Dec 06 17:30 8255 Dec 13 17:52 8255 Dec 17 12:05 8255 Dec 20 02:06 8255 Dec 20 06:04 8255 Dec 21 08:01 8255 Dec 26 11:36	9°石44'23 7°石11'40 3°石54'17 1°石15'36 1°石05'24 30°ほダ 26°ダ04'57	0.63763 AU -2°07'01	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	8256 Nov 18 06:15 8256 Nov 25 08:31 8256 Nov 29 00:48 8256 Dec 02 00:34 8256 Dec 02 06:44 8256 Dec 09 07:08 8256 Dec 11 13:08 8256 Dec 12 08:39	22° \$\times 23'00 20° \$\times 03'08 17° \$\times 12'11 14° \$\times 29'20 14° \$\times 15'16 9° \$\times 28'19 9° \$\times 06'25 9° \$\times 09'22	0.61850 AU -3°17'00 3°14'41
min. Earth dist. inferior conj minimum elong asc. node morning rise	8255 Dec 06 17:30 8255 Dec 13 17:52 8255 Dec 17 12:05 8255 Dec 20 02:06 8255 Dec 20 06:04 8255 Dec 21 08:01 8255 Dec 26 11:36 8255 Dec 26 20:03	9°る44'23 7°る11'40 3°る54'17 1°る15'36 1°る05'24 30°Rダ 26°ダ04'57 25°ダ05'05	0.63763 AU -2°07'01	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	8256 Nov 18 06:15 8256 Nov 25 08:31 8256 Nov 29 00:48 8256 Dec 02 00:34 8256 Dec 02 06:44 8256 Dec 09 07:08 8256 Dec 11 13:08 8256 Dec 12 08:39 8256 Dec 18 11:03	22° \$\times 23'00 20° \$\times 03'08 17° \$\times 12'11 14° \$\times 29'20 14° \$\times 15'16 9° \$\times 28'19 9° \$\times 06'25 9° \$\times 09'22 12° \$\times 36'34	0.61850 AU -3°17'00
min. Earth dist. inferior conj minimum elong asc. node morning rise direct	8255 Dec 06 17:30 8255 Dec 13 17:52 8255 Dec 17 12:05 8255 Dec 20 02:06 8255 Dec 20 06:04 8255 Dec 21 08:01 8255 Dec 26 11:36 8255 Dec 26 20:03 8255 Dec 29 06:14	9°る44'23 7°る11'40 3°る54'17 1°る15'36 1°る05'24 30°Rダ 26°ダ04'57 25°ダ56'05 25°ダ27'07	0.63763 AU -2°07'01 2°05'15	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	8256 Nov 18 06:15 8256 Nov 25 08:31 8256 Nov 29 00:48 8256 Dec 02 00:34 8256 Dec 02 06:44 8256 Dec 09 07:08 8256 Dec 11 13:08 8256 Dec 12 08:39 8256 Dec 18 11:03 8256 Dec 30 04:37	22° ₹23'00 20° ₹03'08 17° ₹12'11 14° ₹29'20 14° ₹15'16 9° ₹28'19 9° ₹06'25 9° ₹09'22 12° ₹36'34 0° ₹	0.61850 AU -3°17'00 3°14'41
min. Earth dist. inferior conj minimum elong asc. node morning rise	8255 Dec 06 17:30 8255 Dec 13 17:52 8255 Dec 17 12:05 8255 Dec 20 02:06 8255 Dec 20 06:04 8255 Dec 21 08:01 8255 Dec 26 11:36 8255 Dec 26 20:03 8255 Dec 29 06:14 8256 Jan 04 18:45	9°る44'23 7°る11'40 3°る54'17 1°る15'36 1°る05'24 30°Rダ 26°ダ04'57 25°ダ27'07 28°ダ27'07 28°ダ50'21	0.63763 AU -2°07'01	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	8256 Nov 18 06:15 8256 Nov 25 08:31 8256 Nov 29 00:48 8256 Dec 02 00:34 8256 Dec 02 06:44 8256 Dec 09 07:08 8256 Dec 11 13:08 8256 Dec 12 08:39 8256 Dec 18 11:03	22° \$\times 23'00 20° \$\times 03'08 17° \$\times 12'11 14° \$\times 29'20 14° \$\times 15'16 9° \$\times 28'19 9° \$\times 06'25 9° \$\times 09'22 12° \$\times 36'34	0.61850 AU -3°17'00 3°14'41
min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	8255 Dec 06 17:30 8255 Dec 13 17:52 8255 Dec 17 12:05 8255 Dec 20 02:06 8255 Dec 20 06:04 8255 Dec 21 08:01 8255 Dec 26 11:36 8255 Dec 26 20:03 8255 Dec 29 06:14 8256 Jan 04 18:45 8256 Jan 05 21:13	9°る44'23 7°る11'40 3°る54'17 1°る15'36 1°る05'24 30°&*/ 26°*/04'57 25°*/27'07 28°*/27'07 28°*/50'21 0°る	0.63763 AU -2°07'01 2°05'15	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	8256 Nov 18 06:15 8256 Nov 25 08:31 8256 Nov 29 00:48 8256 Dec 02 00:34 8256 Dec 02 06:44 8256 Dec 09 07:08 8256 Dec 11 13:08 8256 Dec 12 08:39 8256 Dec 18 11:03 8256 Dec 30 04:37 8257 Jan 03 05:21	22° ₹23'00 20° ₹03'08 17° ₹12'11 14° ₹29'20 14° ₹15'16 9° ₹28'19 9° ₹06'25 9° ₹09'22 12° ₹36'34 0° ₹ 7° ₹13'00	0.61850 AU -3°17'00 3°14'41 17°51'11
min. Earth dist. inferior conj minimum elong asc. node morning rise direct	8255 Dec 06 17:30 8255 Dec 13 17:52 8255 Dec 17 12:05 8255 Dec 20 02:06 8255 Dec 20 06:04 8255 Dec 21 08:01 8255 Dec 26 11:36 8255 Dec 26 20:03 8255 Dec 29 06:14 8256 Jan 04 18:45 8256 Jan 05 21:13 8256 Jan 21 08:41	9°544'23 7°511'40 3°554'17 1°515'36 1°505'24 30°8* 26°*04'57 25°*756'05 25°*727'07 28°*750'21 0°5 24°505'41	0.63763 AU -2°07'01 2°05'15	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj	8256 Nov 18 06:15 8256 Nov 25 08:31 8256 Nov 29 00:48 8256 Dec 02 00:34 8256 Dec 02 06:44 8256 Dec 09 07:08 8256 Dec 11 13:08 8256 Dec 12 08:39 8256 Dec 18 11:03 8256 Dec 30 04:37 8257 Jan 03 05:21	22° ₹23'00 20° ₹03'08 17° ₹12'11 14° ₹29'20 14° ₹15'16 9° ₹28'19 9° ₹06'25 9° ₹09'22 12° ₹36'34 0° ₹ 7° ₹13'00	0.61850 AU -3°17'00 3°14'41 17°51'11
min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set	8255 Dec 06 17:30 8255 Dec 13 17:52 8255 Dec 17 12:05 8255 Dec 20 02:06 8255 Dec 20 06:04 8255 Dec 21 08:01 8255 Dec 26 11:36 8255 Dec 26 20:03 8255 Dec 29 06:14 8256 Jan 04 18:45 8256 Jan 05 21:13	9°♂44'23 7°♂11'40 3°♂54'17 1°♂15'36 1°♂05'24 30°₨¾ 26°¾04'57 25°¾27'07 28°¾50'21 0°♂ 24°♂05'41 0°≈	0.63763 AU -2°07'01 2°05'15	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	8256 Nov 18 06:15 8256 Nov 25 08:31 8256 Nov 29 00:48 8256 Dec 02 00:34 8256 Dec 02 06:44 8256 Dec 09 07:08 8256 Dec 11 13:08 8256 Dec 12 08:39 8256 Dec 18 11:03 8256 Dec 30 04:37 8257 Jan 03 05:21 8257 Jan 14 02:52 8257 Jan 14 04:10	22° ズ23'00 20° ズ03'08 17° ズ12'11 14° ズ29'20 14° ズ15'16 9° ズ28'19 9° ズ06'25 9° ズ09'22 12° ズ36'34 0° 云 7° 云13'00 26° 云28'02 26° 云33'39	0.61850 AU -3°17'00 3°14'41 17°51'11
min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	8255 Dec 06 17:30 8255 Dec 13 17:52 8255 Dec 17 12:05 8255 Dec 20 02:06 8255 Dec 20 06:04 8255 Dec 21 08:01 8255 Dec 26 11:36 8255 Dec 26 20:03 8255 Dec 29 06:14 8256 Jan 04 18:45 8256 Jan 05 21:13 8256 Jan 21 08:41	9°544'23 7°511'40 3°554'17 1°515'36 1°505'24 30°8* 26°*04'57 25°*756'05 25°*727'07 28°*750'21 0°5 24°505'41	0.63763 AU -2°07'01 2°05'15	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj	8256 Nov 18 06:15 8256 Nov 25 08:31 8256 Nov 29 00:48 8256 Dec 02 00:34 8256 Dec 02 06:44 8256 Dec 09 07:08 8256 Dec 11 13:08 8256 Dec 12 08:39 8256 Dec 18 11:03 8256 Dec 30 04:37 8257 Jan 03 05:21 8257 Jan 14 02:52 8257 Jan 14 02:52 8257 Jan 14 00:21	22° ズ23'00 20° ズ03'08 17° ズ12'11 14° ズ29'20 14° ズ15'16 9° ズ28'19 9° ズ06'25 9° ズ09'22 12° ズ36'34 0° 云 7° 云13'00 26° 云28'02 26° 云33'39 26° 云17'17	0.61850 AU -3°17'00 3°14'41 17°51'11
min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set	8255 Dec 06 17:30 8255 Dec 13 17:52 8255 Dec 17 12:05 8255 Dec 20 02:06 8255 Dec 20 06:04 8255 Dec 21 08:01 8255 Dec 26 11:36 8255 Dec 26 20:03 8255 Dec 29 06:14 8256 Jan 04 18:45 8256 Jan 05 21:13 8256 Jan 21 08:41 8256 Jan 24 19:35	9°♂44'23 7°♂11'40 3°♂54'17 1°♂15'36 1°♂05'24 30°₨¾ 26°¾04'57 25°¾27'07 28°¾50'21 0°♂ 24°♂05'41 0°≈	0.63763 AU -2°07'01 2°05'15	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong	8256 Nov 18 06:15 8256 Nov 25 08:31 8256 Nov 29 00:48 8256 Dec 02 00:34 8256 Dec 02 06:44 8256 Dec 09 07:08 8256 Dec 11 13:08 8256 Dec 12 08:39 8256 Dec 18 11:03 8256 Dec 30 04:37 8257 Jan 03 05:21 8257 Jan 14 02:52 8257 Jan 14 04:10	22° ズ23'00 20° ズ03'08 17° ズ12'11 14° ズ29'20 14° ズ15'16 9° ズ28'19 9° ズ06'25 9° ズ09'22 12° ズ36'34 0° 云 7° 云13'00 26° 云28'02 26° 云33'39	0.61850 AU -3°17'00 3°14'41 17°51'11
min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set	8255 Dec 06 17:30 8255 Dec 13 17:52 8255 Dec 17 12:05 8255 Dec 20 02:06 8255 Dec 20 06:04 8255 Dec 21 08:01 8255 Dec 26 11:36 8255 Dec 26 20:03 8255 Dec 29 06:14 8256 Jan 04 18:45 8256 Jan 05 21:13 8256 Jan 21 08:41 8256 Jan 24 19:35	9°♂44'23 7°♂11'40 3°♂54'17 1°♂15'36 1°♂05'24 30°₨¾ 26°¾04'57 25°¾27'07 28°¾50'21 0°♂ 24°♂05'41 0°≈	0.63763 AU -2°07'01 2°05'15	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong behind sun begin	8256 Nov 18 06:15 8256 Nov 25 08:31 8256 Nov 29 00:48 8256 Dec 02 00:34 8256 Dec 02 06:44 8256 Dec 09 07:08 8256 Dec 11 13:08 8256 Dec 12 08:39 8256 Dec 18 11:03 8256 Dec 30 04:37 8257 Jan 03 05:21 8257 Jan 14 02:52 8257 Jan 14 02:52 8257 Jan 14 00:21	22° ズ23'00 20° ズ03'08 17° ズ12'11 14° ズ29'20 14° ズ15'16 9° ズ28'19 9° ズ06'25 9° ズ09'22 12° ズ36'34 0° 云 7° 云13'00 26° 云28'02 26° 云33'39 26° 云17'17	0.61850 AU -3°17'00 3°14'41 17°51'11
min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	8255 Dec 06 17:30 8255 Dec 13 17:52 8255 Dec 17 12:05 8255 Dec 20 02:06 8255 Dec 20 06:04 8255 Dec 21 08:01 8255 Dec 26 11:36 8255 Dec 26 20:03 8255 Dec 29 06:14 8256 Jan 04 18:45 8256 Jan 05 21:13 8256 Jan 21 08:41 8256 Jan 24 19:35 8256 Jan 30 04:56	9°る44'23 7°る11'40 3°る54'17 1°る15'36 1°る05'24 30°Rダ 26°ダ04'57 25°ダ27'07 28°ダ27'07 28°ダ50'21 0°る 24°る05'41 0°≈ 9°≈04'12	0.63763 AU -2°07'01 2°05'15 17°49'21	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong behind sun begin behind sun end	8256 Nov 18 06:15 8256 Nov 25 08:31 8256 Nov 29 00:48 8256 Dec 02 00:34 8256 Dec 02 06:44 8256 Dec 09 07:08 8256 Dec 11 13:08 8256 Dec 12 08:39 8256 Dec 18 11:03 8256 Dec 30 04:37 8257 Jan 03 05:21 8257 Jan 14 02:52 8257 Jan 14 04:10 8257 Jan 14 00:21 8257 Jan 14 08:00	22° ズ23'00 20° ズ03'08 17° ズ12'11 14° ズ29'20 14° ズ15'16 9° ズ28'19 9° ズ06'25 9° ズ09'22 12° ズ36'34 0° 云 7° 云13'00 26° 云28'02 26° 云33'39 26° 云17'17 26° 云50'00	0.61850 AU -3°17'00 3°14'41 17°51'11
min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj	8255 Dec 06 17:30 8255 Dec 13 17:52 8255 Dec 17 12:05 8255 Dec 20 02:06 8255 Dec 20 06:04 8255 Dec 21 08:01 8255 Dec 26 11:36 8255 Dec 26 20:03 8255 Dec 26 20:03 8255 Dec 29 06:14 8256 Jan 04 18:45 8256 Jan 05 21:13 8256 Jan 21 08:41 8256 Jan 24 19:35 8256 Jan 30 04:56	9°중44'23 7°중11'40 3°중54'17 1°중15'36 1°중05'24 30°Rダ 26°ダ04'57 25°ダ27'07 28°ダ27'07 28°ダ50'21 0°중 24°중05'41 0°≈ 9°≈04'12	0.63763 AU -2°07'01 2°05'15 17°49'21	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong behind sun begin behind sun end	8256 Nov 18 06:15 8256 Nov 25 08:31 8256 Nov 29 00:48 8256 Dec 02 00:34 8256 Dec 02 06:44 8256 Dec 09 07:08 8256 Dec 11 13:08 8256 Dec 12 08:39 8256 Dec 18 11:03 8256 Dec 30 04:37 8257 Jan 03 05:21 8257 Jan 14 02:52 8257 Jan 14 04:10 8257 Jan 14 00:21 8257 Jan 14 08:00 8257 Jan 16 01:54	22° \$\times 23'00 20° \$\times 03'08 17° \$\times 12'11 14° \$\times 29'20 14° \$\times 15'16 9° \$\times 28'19 9° \$\times 09'22 12° \$\times 36'34 0° \$\times 13'00 26° \$\times 28'02 26° \$\times 33'39 26° \$\times 17'17 26° \$\times 50'00 29° \$\times 48'00	0.61850 AU -3°17'00 3°14'41 17°51'11
min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	8255 Dec 06 17:30 8255 Dec 13 17:52 8255 Dec 17 12:05 8255 Dec 20 02:06 8255 Dec 20 06:04 8255 Dec 21 08:01 8255 Dec 26 11:36 8255 Dec 26 20:03 8255 Dec 26 20:03 8255 Dec 29 06:14 8256 Jan 04 18:45 8256 Jan 05 21:13 8256 Jan 21 08:41 8256 Jan 24 19:35 8256 Jan 30 04:56 8256 Feb 03 01:21 8256 Feb 02 22:18	9°る44'23 7°る11'40 3°る54'17 1°る15'36 1°る05'24 30°8* 26°*04'57 25°*27'07 28°*750'21 0°る 24°る05'41 0°≈ 9°≈04'12 15°≈24'41 15°≈12'12	0.63763 AU -2°07'01 2°05'15 17°49'21 -0°27'45 0°27'11	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong behind sun begin behind sun end desc. node	8256 Nov 18 06:15 8256 Nov 25 08:31 8256 Nov 29 00:48 8256 Dec 02 00:34 8256 Dec 02 06:44 8256 Dec 09 07:08 8256 Dec 11 13:08 8256 Dec 12 08:39 8256 Dec 18 11:03 8256 Dec 30 04:37 8257 Jan 03 05:21 8257 Jan 14 02:52 8257 Jan 14 00:21 8257 Jan 14 08:00 8257 Jan 16 01:54 8257 Jan 16 04:45	22° ズ23'00 20° ズ03'08 17° ズ12'11 14° ズ29'20 14° ズ15'16 9° ズ28'19 9° ズ06'25 9° ズ09'22 12° ズ36'34 0° 云 7° 云13'00 26° 云28'02 26° 云33'39 26° 云17'17 26° 云50'00 29° 云48'00 0° 窓	0.61850 AU -3°17'00 3°14'41 17°51'11 0°14'26 0°14'23

	9257 E-k 04 01.11	001			9259 I 09 17.06	0°≈07'53	
	8257 Feb 04 01:11	0° ∀		evening rise	8258 Jan 08 17:06		
	8257 Feb 25 14:25	0°Υ			8258 Jan 08 15:09	0° ≈	
evening max el	8257 Feb 28 22:46	3° Y 41'18	21°45'35		8258 Jan 28 13:15	0° ∀	
retrograde	8257 Mar 10 02:29	9° Y 06'37		evening max el	8258 Feb 11 14:50	17° ¥ 23′12	23°04'37
asc. node	8257 Mar 10 07:38	9° Y 06′23		retrograde	8258 Feb 21 22:04	23° ¥ 29′27	
evening set	8257 Mar 14 12:51	7° Ƴ 19'24		asc. node	8258 Feb 25 04:45	22° ∺ 35'59	
inferior conj	8257 Mar 19 20:23	1° Ƴ 01'11	2°41'15	evening set	8258 Feb 26 19:52	21°) €27'25	
minimum elong	8257 Mar 19 18:12	1° Ƴ 08'46	2°40'44	inferior conj	8258 Mar 04 05:04	15°) €01'53	2°07'24
min. Earth dist.	8257 Mar 19 22:44	0° Ƴ 52'58	0.68344 AU	minimum elong	8258 Mar 04 02:50	15° ∺ 09'35	2°06'45
	8257 Mar 20 14:00	30°₽)		min. Earth dist.	8258 Mar 03 19:29	15°) 34′59	0.68390 AU
morning rise	8257 Mar 24 23:24	24°) 49'11		morning rise	8258 Mar 09 09:44	8°) 54'48	
direct	8257 Mar 29 22:45	22°) 40′34		direct	8258 Mar 13 19:07	7° ∺ 08'21	
morning max el	8257 Apr 08 19:38	28°) 30′17	22°43'16	morning max el	8258 Mar 22 10:33	12° ∺ 08'16	21°18'25
. 8	8257 Apr 10 06:02	$_{0}$ ° γ		desc. node	8258 Mar 31 22:34	23°) 39'46	
desc. node	8257 Apr 14 01:36	4° Υ 24'45		acco. no ac	8258 Apr 05 11:35	0°Υ	
desc. node	8257 May 02 08:02	0°8		morning set	8258 Apr 22 17:05	25°Υ′58'03	
morning set	8257 May 12 23:06	16° 8 49'31		morning set	8258 Apr 25 06:02	0° 8	
•			1 40045 ATT	Fauth 4:-4	-	_	1 42240 ATT
max. Earth dist.	8257 May 17 14:59	24° 8 38'15	1.40245 AU	max. Earth dist.	8258 Apr 29 16:56	7° 8 12'48	1.42348 AU
	8257 May 20 17:26	$\Pi^{\circ}0$			005034 05 01 05	1001 20014	2001112
				superior conj	8258 May 07 01:25	19° 8 33'44	
superior conj	8257 May 25 09:32	8° Ⅱ 19'42		minimum elong	8258 May 07 06:28	19° 8 55'26	2°01'30
minimum elong	8257 May 25 15:15	8° Ⅱ 45'42	1°38'25		8258 May 13 00:29	Π $^{\circ}0$	
evening rise	8257 Jun 04 07:45	26° Ⅱ 52'54		evening rise	8258 May 18 09:30	9° Ⅱ 40'30	
	8257 Jun 05 23:19	0°ಲ		asc. node	8258 May 24 03:41	19° Ⅱ 59'43	
asc. node	8257 Jun 06 06:38	0° © 34'30			8258 May 30 07:22	0 \circ \odot	
evening max el	8257 Jun 20 09:26	22°5541'05	18°25'54	evening max el	8258 Jun 03 20:04	5° 5 35'03	18°07'21
retrograde	8257 Jun 27 22:49	26°527'36		retrograde	8258 Jun 10 14:09	9° 5 01'08	
evening set	8257 Jun 30 03:15	26° © 09'33		evening set	8258 Jun 13 02:08	8° © 33'13	
inferior conj	8257 Jul 07 16:12	21° © 36'14	0°59'04	inferior conj	8258 Jun 19 21:10	3° © 39'47	2°10'19
minimum elong	8257 Jul 07 18:11	21° © 32'13	0°58'13	minimum elong	8258 Jun 20 00:13	3° © 32'36	2°09'17
min. Earth dist.	8257 Jul 11 01:10	18°954'29	0.58203 AU	min. Earth dist.	8258 Jun 23 03:50	0°937'07	0.60422 AU
desc. node	8257 Jul 11 01:10 8257 Jul 11 00:57	18°954'54	0.36203 AC	iiiii. Lartii dist.	8258 Jun 23 20:55	30°RⅡ	0.00422 AC
						27° ∏ 47'30	
morning rise	8257 Jul 15 05:44	16°9510'34		morning rise	8258 Jun 26 19:37		
direct	8257 Jul 21 06:07	14°936'26	2500 451	desc. node	8258 Jun 27 22:01	27° Ⅱ 08'58	
morning max el	8257 Aug 04 15:35	22° © 17'53	27°04'51	direct	8258 Jul 03 08:55	25° ∏ 41'48	
	8257 Aug 11 11:01	$0^{\circ}\Omega$			8258 Jul 13 14:07	0∘ ௐ	
	8257 Aug 29 23:19	O° My		morning max el	8258 Jul 17 16:44	3° © 38'51	27°48'02
asc. node	8257 Sep 02 06:08	6° Mp 36'13			8258 Aug 06 02:45	0 ° Ω	
morning set	8257 Sep 03 21:47	10°Mp03'16		morning set	8258 Aug 19 03:06	24° Ω 27'02	
				asc. node	8258 Aug 20 03:07	26° Ω 32'35	
superior conj	8257 Sep 10 21:25	25° Mp 17'57	1°18'01		8258 Aug 21 18:11	0° m y	
minimum elong	8257 Sep 10 19:13	25° m 05'41	1°17'42	max. Earth dist.	8258 Aug 25 05:37	7° m 33′48	1.31747 AU
max. Earth dist.	8257 Sep 10 20:01	25° m/10'11	1.31677 AU		Č	•	
	8257 Sep 13 00:17	$0 \circ \overline{\mathbf{v}}$		superior conj	8258 Aug 26 08:38	10° m) 02'47	0°59'50
evening rise	8257 Sep 17 16:38	10° Ω 10'35		minimum elong	8258 Aug 26 06:28	9° m 50'47	0°59'23
e vennig rise	8257 Sep 27 19:58	0°M		evening rise	8258 Sep 02 02:40	24° mp 51'15	0 0 2 2 2 3
desc. node	8257 Oct 06 23:47	14°M35'15		evening rise	8258 Sep 04 13:15	0° <u>م</u>	
evening max el	8257 Oct 00 23:47 8257 Oct 17 12:53	27°M07'51	26°41'02		8258 Sep 22 01:44	0° ™	
evening max er		27 IIC0731 0° √ 7	20 41 02	44-	*		
	8257 Oct 20 21:28			desc. node	8258 Sep 23 20:53	2°M17'48	25020116
retrograde	8257 Oct 31 10:45	4° ₹ 15'43		evening max el	8258 Sep 29 07:25	8°M15'17	25°29'16
evening set	8257 Nov 07 05:55	2° х 19′26		retrograde	8258 Oct 13 05:27	15° ™ 17'27	
	8257 Nov 10 18:03	30°RM		evening set	8258 Oct 19 05:11	13° M 54'26	
min. Earth dist.	8257 Nov 11 02:43	29°M43'35	0.59774 AU	min. Earth dist.	8258 Oct 23 19:32	11°M16'26	0.57728 AU
inferior conj	8257 Nov 14 07:35	27°M11'08	-4°23'24	inferior conj	8258 Oct 26 19:49	9° ጤ 11'48	-5°15'07
minimum elong	8257 Nov 14 14:52	26°M56'37	4°21'21	minimum elong	8258 Oct 27 01:20	9° ™ 02'14	5°14'14
morning rise	8257 Nov 22 02:13	22°M31'49		morning rise	8258 Nov 03 23:49	4°M55'16	
direct	8257 Nov 24 07:28	22°M13'46		direct	8258 Nov 06 08:51	4°MJ38'04	
asc. node	8257 Nov 29 05:42	23°M47'50		morning max el	8258 Nov 15 02:58	8°M49'52	18°54'15
morning max el	8257 Dec 01 23:01	25°M59'50	18°12'14	asc. node	8258 Nov 16 02:43	9°M49'53	-
	8257 Dec 05 09:39	0° ⊼	•		8258 Nov 28 21:24	0° ⊼	
morning set	8257 Dec 03 09:39 8257 Dec 17 16:55	0 x ⁴ 21° x7 01'34		morning set	8258 Dec 01 14:48	5° ∡ 18′22	
morning set				morning set	0230 DCC U1 14.48	J X 10 44	
	8257 Dec 22 11:20	0° ප			0050 5 10 01 20	010 3400	101496
	005775	00=	0040101	superior conj	8258 Dec 10 01:39	21° х 48'14	
superior conj	8257 Dec 27 04:33	8° る 40'27	0°49'01	minimum elong	8258 Dec 10 04:54	22° ∡ *03'44	1~14'14
minimum elong	8257 Dec 27 07:47	8° ප 55'03	0°48'43		8258 Dec 14 11:00	0°る	
desc. node	8258 Jan 02 22:53	20° る 32'59		max. Earth dist.	8258 Dec 17 01:55	4° る 43'33	1.39173 AU
max. Earth dist.	8258 Jan 03 19:48	22° る 01'48	1.41313 AU	evening rise	8258 Dec 20 23:22	11° る 30'43	

		🗕				—	
desc. node	8258 Dec 20 19:53	11° る 15'48		desc. node	8259 Dec 07 16:53	1° る 52'04	
	8259 Jan 01 10:29	0° ≈			8259 Dec 26 03:19	0° ≈	
	8259 Jan 24 01:23	0° ℋ		evening max el	8260 Jan 07 17:43	14° ≈ 56'48	25°37'53
evening max el	8259 Jan 25 04:32	1° ₩ 08'57	24°24'22	retrograde	8260 Jan 20 01:24	22° ≈ 00'50	
retrograde	8259 Feb 05 14:04	7°) 49′30		evening set	8260 Jan 26 00:17	19° ≈ 33'50	
evening set	8259 Feb 11 00:13	5°) 33′52		asc. node	8260 Jan 29 22:57	15° ≈ 20'40	
asc. node	8259 Feb 12 01:51	4°) (34′10		min. Earth dist.	8260 Jan 30 08:38	14° ≈ 50′18	0.67308 AU
min. Earth dist.	8259 Feb 15 15:35	0° ℋ 15'41	0.68038 AU	inferior conj	8260 Jan 31 17:00	13° ≈ 07'05	0°34'42
	8259 Feb 15 20:16	30°R ≈		minimum elong	8260 Jan 31 16:09	13° ≈ 09'51	0°34'29
inferior conj	8259 Feb 16 12:34	29° ≈ 05'16	1°25'05	morning rise	8260 Feb 06 08:26	7° ≈ 14'41	
minimum elong	8259 Feb 16 10:46	29°≈11'20	1°24'30	direct	8260 Feb 09 16:52	6°≈10'11	
morning rise	8259 Feb 21 21:25	23°≈04'31	12.50	morning max el	8260 Feb 16 14:44	9°≈58'04	19°05'30
direct	8259 Feb 25 17:39	21°≈40'04		greatest brilliancy	8260 Mar 01 04:49	28°≈13'52	-0.7m
morning max el	8259 Mar 05 08:44	25°≈58'06	20°04'40	greatest orimancy	8260 Mar 02 08:46	0° ∺	-0.7111
morning max er	8259 Mar 08 23:37	23 ≈3800 0° H	20 04 40	desc. node	8260 Mar 04 16:26	3° ∺ 33'00	
desc. node	8259 Mar 18 19:30	13° ¥ 25′27		morning set		12° ¥ 58′28	
desc. node		13 π2327 0° Υ		morning set	8260 Mar 10 18:50	12 π3828 0° Υ	
	8259 Mar 29 20:44			P. 4. F.	8260 Mar 21 17:14		1 45146 177
morning set	8259 Apr 01 16:08	4°Υ18'51		max. Earth dist.	8260 Mar 24 17:29	4° Ƴ 43'23	1.45146 AU
max. Earth dist.	8259 Apr 12 01:59	20° Ƴ 38′20	1.44048 AU				
				superior conj	8260 Mar 27 09:18	8° Y 54'54	
superior conj	8259 Apr 17 16:57	29° Ƴ 43'31		minimum elong	8260 Mar 27 02:51	8° Y 29'25	2°03'08
minimum elong	8259 Apr 17 17:31	29° Ƴ 45'50	2°11'53		8260 Apr 09 12:15	9° 8	
	8259 Apr 17 20:59	9° 8		evening rise	8260 Apr 11 02:41	2° 8 37'15	
evening rise	8259 Apr 30 17:16	21° 8 38'00		asc. node	8260 Apr 26 21:50	27° 8 31'22	
	8259 May 05 14:02	$\Pi^{\circ}0$			8260 Apr 28 20:08	$\Pi^{\circ}0$	
asc. node	8259 May 11 00:46	9° Ⅱ 01'24		evening max el	8260 Apr 30 22:08	2° Ⅱ 18'39	18°27'13
evening max el	8259 May 18 09:21	18° Ⅱ 50′25	18°08'02	retrograde	8260 May 07 09:02	5° Ⅱ 48'09	
retrograde	8259 May 24 18:59	22° Ⅱ 11'13		evening set	8260 May 10 11:43	4° Ⅱ 54'16	
evening set	8259 May 27 14:24	21° II 31'01		Ü	8260 May 15 18:16	30°R ႘	
inferior conj	8259 Jun 02 19:20	16° Ⅱ 18′28	2°54'57	inferior conj	8260 May 16 06:31	29° 8 23'59	3°17'46
minimum elong	8259 Jun 02 21:46	16° I I11'58	2°54'19	minimum elong	8260 May 16 07:41	29° 8 20'33	3°17'32
min. Earth dist.	8259 Jun 05 15:08	13° I I19'08	0.62643 AU	min. Earth dist.	8260 May 18 11:36	26° 8 47'52	0.64619 AU
morning rise	8259 Jun 09 03:27	10° Ⅱ 10′27	0.020 1 3 A0	morning rise	8260 May 22 02:45	23° 8 08'24	0.04017 AC
•	8259 Jun 14 19:04	7°∏43'39		direct	•	20° 8 24'00	
desc. node		7°П43′39 7°П39'42			8260 May 28 18:56	20° 8 50'50	
direct	8259 Jun 15 21:54		25052100	desc. node	8260 May 31 16:04	. •	27022122
morning max el	8259 Jun 29 23:19	15° Ⅱ 42'19	2/53.00	morning max el	8260 Jun 11 09:03	28° 8 21'28	21°22'23
	8259 Jul 11 16:01	0°©			8260 Jun 12 22:50	0°Щ	
	8259 Jul 29 18:29	$0^{\circ}\Omega$			8260 Jul 04 11:08	0ංම	
morning set	8259 Aug 03 02:25	8° Ω 30'35		morning set	8260 Jul 16 17:09	22°906'47	
asc. node	8259 Aug 07 00:06	16° Ω 36′04			8260 Jul 20 15:40	$0^{\circ}\Omega$	
max. Earth dist.	8259 Aug 08 11:05	19° Ω 42'37	1.32289 AU	max. Earth dist.	8260 Jul 21 08:51	1° Ω 28'16	1.33312 AU
				asc. node	8260 Jul 23 21:04	6° Ω 42'35	
superior conj	8259 Aug 10 17:26	24° Ω 36'34	0°37'07				
minimum elong	8259 Aug 10 15:49	24° Ω 27'45	0°36'42	superior conj	8260 Jul 24 21:48	8° Ω 53'27	0°10'26
	8259 Aug 13 04:38	0° mp		minimum elong	8260 Jul 24 21:16	8° Ω 50'41	0°10'11
evening rise	8259 Aug 17 14:15	9° m 33'31		behind sun begin	8260 Jul 24 17:00	8° Ω 27'58	
-	8259 Aug 28 01:01	0∘ ত		behind sun end	8260 Jul 25 01:33	9° Ω 13'26	
desc. node	8259 Sep 10 17:59	18° ≏ 37'34		evening rise	8260 Aug 01 01:30	24° Ω 11'48	
evening max el	8259 Sep 10 19:44	18° ≏ 41'49	23°55'47	· ·	8260 Aug 03 20:22	0°m	
retrograde	8259 Sep 24 11:48	25° ≏ 32'28		evening max el	8260 Aug 22 08:37	28° m 55'49	22°16'42
evening set	8259 Sep 29 03:44	24° £ 44'48		v , v 8 v .	8260 Aug 23 11:58	0∘ ⊽	
min. Earth dist.	8259 Oct 05 06:18		0.56007 AU	desc. node	8260 Aug 27 15:04	ა _ 3° ჲ 05'05	
inferior conj	8259 Oct 07 11:44	20° £ 25'04		retrograde	8260 Sep 04 05:51	5° £ 20'38	
·				•	•		
minimum elong	8259 Oct 07 11:15	20° £ 25'47	3-34-40	evening set	8260 Sep 07 09:59	4° £ 58'24	0.54027.411
morning rise	8259 Oct 15 20:52	16° £ 28'10		min. Earth dist.	8260 Sep 15 14:35	1° £ 23'44	
direct	8259 Oct 18 15:05	16° Ω 08'44		inferior conj	8260 Sep 16 10:40	0° £ 55'30	
morning max el	8259 Oct 28 19:23	20° £ 56'06	19°58'34	minimum elong	8260 Sep 16 03:01	1° ≏ 06'15	5~02'58
asc. node	8259 Nov 02 23:44	26° £ 59'53			8260 Sep 18 02:30	30°R Mp	
	8259 Nov 05 00:48	0°M₊		morning rise	8260 Sep 24 21:45	27° m 07'38	
morning set	8259 Nov 15 19:32	19°M53'14		direct	8260 Sep 28 05:10	26° Mp 43'06	
	8259 Nov 20 18:23	0°⊀			8260 Oct 07 06:20	0∘ ⊽	
				morning max el	8260 Oct 09 22:45	2° ≏ 13'38	21°24'31
superior conj	8259 Nov 23 13:06	5° ∡ ³36'34	1°31'01	asc. node	8260 Oct 19 20:42	15° ≙ 03'02	
minimum elong	8259 Nov 23 15:22	5° ∡ 747'56	1°30'59		8260 Oct 27 22:20	0°M	
max. Earth dist.	8259 Nov 29 08:01	16° ₹ 51'39		morning set	8260 Oct 30 04:34	4°MJ38'59	
evening rise	8259 Dec 03 02:36	23° ∡ ⁴48'59		Č			
5	8259 Dec 06 14:45	0°る		superior conj	8260 Nov 06 10:47	19° M 53'59	1°39'38
						1100000	> -0

	00(0)	100 W 50150	1020142		00010 - 01 1500	40 W 2015	104444
minimum elong	8260 Nov 06 11:45	19°M58'58		superior conj	8261 Oct 21 15:26	4°M29'57	1°41'12
max. Earth dist.	8260 Nov 10 19:09	28°M46'23	1.35134 AU	minimum elong	8261 Oct 21 15:07	4° M ₊28'14	1°41'17
	8260 Nov 11 09:58	0° ∡ ¹		max. Earth dist.	8261 Oct 24 14:02	10°M44'40	1.33592 AU
evening rise	8260 Nov 14 23:21	6° ≯ 53'50		evening rise	8261 Oct 29 09:37	20°M34'24	
desc. node	8260 Nov 23 13:56	22° ⋌ 17'24			8261 Nov 03 07:59	0° ∡ ¹	
	8260 Nov 28 07:31	0°₹		desc. node	8261 Nov 10 10:59	12° ≯ 25′20	
evening max el	8260 Dec 20 07:01	28° る 40'53	26°37'48		8261 Nov 22 06:27	0°₹	
	8260 Dec 21 16:58	0° ≈		evening max el	8261 Dec 02 19:48	12° る 10'55	27°17'03
retrograde	8261 Jan 02 07:16	5° ≈ 57'30		retrograde	8261 Dec 16 07:15	19° る 31'21	
evening set	8261 Jan 08 18:16	3° ≈ 22'54		evening set	8261 Dec 23 04:00	16° る 55'17	
	8261 Jan 12 04:26	30°Ŗる		min. Earth dist.	8261 Dec 27 00:33	13° る 20'16	0.64749 AU
min. Earth dist.	8261 Jan 12 20:22	29° る 14'10	0.66209 AU	inferior conj	8261 Dec 29 08:17	10° る 48'58	-1°27'39
inferior conj	8261 Jan 14 16:21	27° る 03'31	-0°23'11	minimum elong	8261 Dec 29 10:56	10° る 41'45	1°26'23
minimum elong	8261 Jan 14 17:00	27° る 01'37	0°22'46	asc. node	8262 Jan 02 17:02	6° ප 36'45	
asc. node	8261 Jan 15 20:00	25° る 42'24		morning rise	8262 Jan 04 19:22	5° る 20'48	
morning rise	8261 Jan 20 16:38	21° る 21'49		direct	8262 Jan 07 09:16	4° ප 46'10	
direct	8261 Jan 23 14:50	20° る 34'08		morning max el	8262 Jan 13 19:41	8° ප 09'02	17°56'31
morning max el	8261 Jan 30 03:14	24° る 04'02	18°22'33		8262 Jan 28 16:27	0°≈	
	8261 Feb 04 01:41	0° ≈		morning set	8262 Jan 31 06:33	4° ≈ 19′05	
morning set	8261 Feb 18 21:54	22° ≈ 54'51		desc. node	8262 Feb 06 10:20	14° ≈ 31′24	
desc. node	8261 Feb 19 13:22	23° ≈ 56'33					
	8261 Feb 23 08:38	0°) €		superior conj	8262 Feb 14 02:40	26° ≈ 57'24	-0°53'36
				minimum elong	8262 Feb 13 20:28	26° ≈ 32'40	0°52'40
superior conj	8261 Mar 06 14:04	17° ∺ 41'40	-1°35'13		8262 Feb 16 00:34	0° ∀	
minimum elong	8261 Mar 06 04:28	17° ∺ 04'03	1°34'12	max. Earth dist.	8262 Feb 18 08:24	3°) 40′40	1.45153 AU
max. Earth dist.	8261 Mar 07 12:46	19° ∺ 10′32	1.45525 AU	evening rise	8262 Mar 02 04:59	22° ₩ 06'37	
	8261 Mar 14 10:48	0° Y			8262 Mar 07 08:35	0 ° Υ	
evening rise	8261 Mar 22 12:44	12° Y '40'40		greatest brilliancy	8262 Mar 16 17:45	14° Ƴ 05'44	-0.6m
greatest brilliancy	8261 Apr 01 19:14	28° Y '45'55	-0.8m	evening max el	8262 Mar 28 12:48	29° Ƴ 30'59	19°56'40
	8261 Apr 02 14:30	0° ႘			8262 Mar 29 00:26	$_{0\circ}$ 8	
asc. node	8261 Apr 13 18:53	15° 8 19'38		asc. node	8262 Mar 31 15:57	2° 8 14'14	
evening max el	8261 Apr 14 07:51	15° 8 53'14	19°03'56	retrograde	8262 Apr 05 02:46	3° 8 53'47	
retrograde	8261 Apr 21 04:35	19° 8 44'09		evening set	8262 Apr 08 21:25	2° 8 30'39	
evening set	8261 Apr 24 14:52	18° 8 35'49			8262 Apr 11 12:14	30° ₹Ƴ	
inferior conj	8261 Apr 30 03:03	12° 8 49'24	3°23'30	inferior conj	8262 Apr 14 05:58	26° Ƴ 30′01	3°15'41
minimum elong	8261 Apr 30 02:54	12° 8 49'54	3°23'24	minimum elong	8262 Apr 14 04:44	26° Ƴ 34'10	3°15'29
min. Earth dist.	8261 May 01 16:43	10° 8 49'21	0.66221 AU	min. Earth dist.	8262 Apr 15 05:03	25° Ƴ 12′20	0.67393 AU
morning rise	8261 May 05 14:30	6° 8 31'22		morning rise	8262 Apr 19 11:48	20° Ƴ 12'42	
direct	8261 May 11 22:45	3° 8 45'25		direct	8262 Apr 25 08:35	17° Ƴ 35'34	
desc. node	8261 May 18 13:03	6° 8 05'47		desc. node	8262 May 05 10:02	22° Ƴ 57'38	
morning max el	8261 May 24 19:29	11° 8 24'52	26°22'49	morning max el	8262 May 07 05:05	24° Ƴ 42'00	25°03'29
	8261 Jun 08 14:47	Π $^{\circ}0$			8262 May 11 23:43	0 \circ 8	
	8261 Jun 27 01:35	0 \circ			8262 Jun 02 01:41	Π $\circ 0$	
morning set	8261 Jun 29 19:50	5° © 05'24		morning set	8262 Jun 12 06:06	17° Ⅱ 15′08	
max. Earth dist.	8261 Jul 03 20:07	12° © 46'58	1.34814 AU	max. Earth dist.	8262 Jun 15 21:09	23° Ⅱ 50′50	1.36742 AU
					8262 Jun 19 03:32	0 \circ \odot	
superior conj	8261 Jul 08 19:16	22° © 45'44	-0°19'29				
minimum elong	8261 Jul 08 20:23	22° © 51'27	0°19'26	superior conj	8262 Jun 22 06:59	6° © 06'16	-0°51'12
asc. node	8261 Jul 10 18:02	26° © 47'25		minimum elong	8262 Jun 22 10:07	6° © 21'38	0°50'49
	8261 Jul 12 06:59	0 ° Ω		asc. node	8262 Jun 27 15:02	16° © 46'59	
evening rise	8261 Jul 16 10:22	8° N 39'00		evening rise	8262 Jun 30 14:37	22°9548'55	
	8261 Jul 27 20:19	0° m)			8262 Jul 04 05:29	0 \circ Ω	
evening max el	8261 Aug 04 06:30	9° m 30'58	20°47'15	evening max el	8262 Jul 17 17:40		19°36'05
desc. node	8261 Aug 14 12:10	15° m 08'14		retrograde	8262 Jul 27 12:18	25° Ω 38'05	
retrograde	8261 Aug 15 18:08	15° Mp 12'08		evening set	8262 Jul 29 08:41	25° Ω 28'29	
evening set	8261 Aug 17 21:34	15° Mp 01'03		desc. node	8262 Aug 01 09:14	24° Ω 35′01	
inferior conj	8261 Aug 27 03:07	11° m)04'09		inferior conj	8262 Aug 07 03:52	21° Ω 24'23	
minimum elong	8261 Aug 26 17:54	11° m)17'18		minimum elong	8262 Aug 06 23:02	21° Ω 32′00	1°44'15
min. Earth dist.	8261 Aug 27 23:41	10°M 34'50	0.54726 AU	min. Earth dist.	8262 Aug 09 11:49	19° Ω 56'14	0.55481 AU
morning rise	8261 Sep 04 14:14	7°M 05'26		morning rise	8262 Aug 15 11:01	16° Ω 55'29	
direct	8261 Sep 08 13:12	6° Mp 31′55		direct	8262 Aug 20 05:01	16° Ω 05'05	
morning max el	8261 Sep 21 15:32	12° m 48'44	23°06'27	morning max el	8262 Sep 03 04:04	23° Ω 03'34	24°51'47
	8261 Oct 04 14:12	0∘ ⊽			8262 Sep 09 09:26	0° m)	
asc. node	8261 Oct 06 17:40	3° △ 46'02		asc. node	8262 Sep 23 14:38	22° m/59'05	
morning set	8261 Oct 14 15:47	19° £ 28'47			8262 Sep 27 02:27	0° ⊽	
	8261 Oct 19 13:18	0°M₊		morning set	8262 Sep 29 03:30	4° ≙ 17'46	

superior coni	8262 Oct 06 00:29	19° ≙ 16'50	1026122		8263 Aug 11 18:32	0°N	
superior conj minimum elong	8262 Oct 05 00:29 8262 Oct 05 23:08	19° ⊆ 10'30	1°36'31	morning max el	8263 Aug 15 18:50	3° Ω 26'26	26°23'50
max. Earth dist.	8262 Oct 03 23:08 8262 Oct 07 16:43	22° £ 56'24	1.32488 AU	morning max cr	8263 Sep 03 21:29	0° m)	20 23 39
max. Lattii dist.	8262 Oct 10 23:46	0°M	1.52400 AU	asc. node	8263 Sep 10 11:38	12° m) 34'04	
evening rise	8262 Oct 10 25:40 8262 Oct 13 05:59	4°M41'56		morning set	8263 Sep 10 11:36 8263 Sep 13 14:06	19°M)01'10	
evening rise	8262 Oct 27 00:02	0°×7		morning set	8263 Sep 18 15:06	0° <u>م</u>	
desc. node	8262 Oct 28 08:03	2° × ⁷ 08'28			0203 БСР 10 13.00	° –	
evening max el	8262 Nov 15 06:35	25°×15'20	27°28'56	superior conj	8263 Sep 20 11:51	4° ჲ 07'53	1°26'17
evening max or	8262 Nov 21 06:36	0°궁	27 2030	minimum elong	8263 Sep 20 09:50	3° £ 56'43	1°26'05
retrograde	8262 Nov 29 00:40	2° ප 32'56		max. Earth dist.	8263 Sep 21 00:57	5° £ 20'26	1.31838 AU
evening set	8262 Dec 06 02:40	0° る 04'09		evening rise	8263 Sep 27 09:32	19° ≏ 08'21	1.51050110
evening see	8262 Dec 06 05:02	30°R. ₹		evening rise	8263 Oct 02 18:37	0°M	
min. Earth dist.	8262 Dec 09 19:26	26° ₹ 159'05	0.62975 AU	desc. node	8263 Oct 15 05:07	21°M16'57	
inferior conj	8262 Dec 12 14:03	24°×16'43		dese. Hode	8263 Oct 21 13:31	0° √	
minimum elong	8262 Dec 12 19:00	24°×104'37		evening max el	8263 Oct 28 13:06	7° ∡ ¹42'13	27°08'28
morning rise	8262 Dec 19 13:22	19°×704'56	2 3437	retrograde	8263 Nov 11 10:23	14° × 53'27	27 00 20
asc. node	8262 Dec 20 14:06	18° × ⁷ 47'31		evening set	8263 Nov 18 10:40	12° ∡ 42'33	
direct	8262 Dec 21 21:16	18°×739'32		min. Earth dist.	8263 Nov 22 03:52	9°×759'26	0.60973 AU
morning max el	8262 Dec 28 13:01	22° × ⁷ 04'49	17°47'52	inferior conj	8263 Nov 25 06:29	7°×719'03	
morning max er	8263 Jan 03 15:51	0°ਰ 10°ਰ	17 47 32	minimum elong	8263 Nov 25 13:21		3°43'49
morning set	8263 Jan 13 16:00	0 3 16° る 54'39		morning rise	8263 Dec 02 18:21	2° × ⁷ 26'45	3 43 47
morning set	8263 Jan 21 05:13	0°≈		direct	8263 Dec 04 23:25	2°×706'57	
desc. node	8263 Jan 24 07:18	5°≈12'58		asc. node	8263 Dec 07 11:10	2°×33'05	
dese. Hode	0203 Jan 24 07.10	3 ~ 12 36		morning max el	8263 Dec 07 11:10 8263 Dec 12 03:58	5° × 43'09	17°57'37
superior conj	8263 Jan 25 13:21	7°≈18'25	-0°09'10	morning set	8263 Dec 27 19:45	0°る22'16	17 37 37
minimum elong	8263 Jan 25 12:25	7°≈14'32	0°08'54	morning set	8263 Dec 27 14:55	0°る	
behind sun begin	8263 Jan 25 04:38	6°≈42'08	0 00 54		0203 Dec 27 14.33	0 0	
behind sun end	8263 Jan 25 20:12	7°≈46'52		superior conj	8264 Jan 07 01:40	18° る 52'57	0°30'10
max. Earth dist.	8263 Feb 01 01:37	7 ≈ 40 32 17° ≈ 56'17	1.44085 AU	minimum elong	8264 Jan 07 04:06	18 3 3237	
max. Earth dist.	8263 Feb 08 17:27	0° ∀	1.11005710	desc. node	8264 Jan 11 04:16	25° る 57'59	0 27 30
evening rise	8263 Feb 09 16:22	1° ¥ 28'31		desc. node	8264 Jan 13 13:49	0°≈	
evening rise	8263 Feb 28 22:58	0°Υ		max. Earth dist.	8264 Jan 14 14:51	1° ≈ 43'53	1.42451 AU
evening max el	8263 Mar 11 12:17	13° Υ 10'08	21°02'57	evening rise	8264 Jan 20 14:10	11°≈23'46	1.42431710
asc. node	8263 Mar 18 13:04	18° Υ 00'12	21 0237	evening rise	8264 Feb 01 18:50	0° ∀	
retrograde	8263 Mar 20 01:15	18° Υ 11'50		evening max el	8264 Feb 22 06:49	26° ¥ 51'29	22°18'46
evening set	8263 Mar 24 05:26	16° Υ 33'37		evening max er	8264 Feb 25 19:13	0°Υ	22 10 40
inferior conj	8263 Mar 29 12:45	10° Υ 21'06	2°56'40	retrograde	8264 Mar 02 22:12	2° Υ 34'19	
minimum elong	8263 Mar 29 10:49	10° Y 27'51	2°56'16	asc. node	8264 Mar 04 10:11	2°Υ22'56	
min. Earth dist.	8263 Mar 29 22:26	9° Υ 47'36	0.68123 AU	evening set	8264 Mar 07 13:15	0° Υ 40'56	
morning rise	8263 Apr 03 15:59	4° Υ 06'35	0.00123710	evening set	8264 Mar 08 07:32	30°₽ ;	
direct	8263 Apr 08 23:25	1° Υ 45'57		inferior conj	8264 Mar 12 21:19	24°) 19'22	2°27'59
morning max el	8263 Apr 19 14:14	8° Υ 05'51	23°34'37	minimum elong	8264 Mar 12 19:04	24° H 27'13	
desc. node	8263 Apr 22 07:01	10° Υ 59'34	23 3437	min. Earth dist.	8264 Mar 12 18:36	24° H 28'50	0.68420 AU
dese. Hode	8263 May 06 17:20	0° 8		morning rise	8264 Mar 18 00:43	18°) (2030	0.00420710
morning set	8263 May 24 18:28	28° 8 21'07		direct	8264 Mar 22 18:11	16°) (09'13	
morning sec	8263 May 25 17:42	0° I		morning max el	8264 Apr 01 01:54	21°) 37'19	22°06'00
max. Earth dist.	8263 May 28 16:53		1.38950 AU	desc. node	8264 Apr 08 04:00	29°) 52'10	22 00 00
max. Dartii dist.	0203 May 20 10.33	3 20001	1.50,50710	desc. node	8264 Apr 08 06:26	0°Υ	
superior conj	8263 Jun 05 05:15	18° Ⅱ 45'52	-1°22'29		8264 Apr 29 00:04	0°8	
minimum elong	8263 Jun 05 10:18	19° Ⅱ 09'29		morning set	8264 May 04 04:00	8° 8 11'39	
minimum crong	8263 Jun 11 02:26	0°9	1 21 33	max. Earth dist.	8264 May 09 15:16		1.41181 AU
evening rise	8263 Jun 14 11:25	6° © 33'42		max. Earth dist.	0204 May 07 15.10	17 011 14	1.41101710
asc. node	8263 Jun 14 12:04	6°936'49		superior conj	8264 May 17 09:37	0°∏34'30	-1°49'45
use. Houe	8263 Jun 28 04:10	0°€		minimum elong	8264 May 17 15:25	1° П 00'15	
evening max el	8263 Jun 30 16:50	2° £ 50'06	18°45'37	minimum clong	8264 May 17 01:50	0°П	1 4720
retrograde	8263 Jul 08 22:30	6° Ω 55'00	10 1337	evening rise	8264 May 27 21:19	19° ∏ 45'02	
evening set	8263 Jul 10 22:57	6° Ω 41'12		asc. node	8264 May 31 09:06	26°∏12'33	
inferior conj	8263 Jul 18 23:22	2°Ω19'59	0°05'14		8264 Jun 02 11:24	0°95	
minimum elong	8263 Jul 18 23:34	2° Ω 19'37	0°05'01	evening max el	8264 Jun 13 00:26	15° © 27'50	18°15'37
transit middle	8263 Jul 18 23:34 8263 Jul 18 23:34	2° Ω 19'37	0°05'01	retrograde	8264 Jun 20 03:57	19° 5 03'19	10 10 01
transit begin	8263 Jul 18 20:04	2° Ω 26'02	3 00 01	evening set	8264 Jun 22 11:44	18° © 41'17	
transit begin	8263 Jul 19 03:04	2° Ω 13'10		inferior conj	8264 Jun 29 16:38	13°959'16	1°32'49
desc. node	8263 Jul 19 05:18	2° Ω 07'13		minimum elong	8264 Jun 29 19:22	13°953'23	1°32'49 1°31'46
min. Earth dist.	8263 Jul 19 00:18 8263 Jul 22 04:03	0°Ω00'14	0.57050 AU	min. Earth dist.	8264 Jul 03 02:03	13 \$33 23 11°\$05'47	0.59134 AU
mm. Latin dist.	8263 Jul 22 04:11	0 8 €00 14 30°RS	0.57050 AU	desc. node	8264 Jul 05 03:23	9°931'55	3.37137 AU
morning rise	8263 Jul 26 20:43	30 ଝଞ 27°ହୀ4'09		morning rise	8264 Jul 06 23:53	8° © 21'19	
direct	8263 Aug 01 11:11	27 \$1409 25°\$57'28		direct	8264 Jul 13 06:53	6°533'21	
anoci	5205 Aug 01 11.11	25 -25120		direct	520+3ul 13 00.33	0 -23321	

morning max el	8264 Jul 27 15:48	14° © 21'50	27°27'53		8265 Jul 13 12:11	0ං වෙ	
C	8264 Aug 09 05:11	$0^{\circ}\Omega$			8265 Aug 02 18:13	$0^{\circ}\Omega$	
	8264 Aug 26 04:44	0° m		morning set	8265 Aug 12 00:52	17° Ω 49'23	
asc. node	8264 Aug 27 08:35	2° Mp 24'00		asc. node	8265 Aug 14 05:33	22° Ω 24'00	
morning set	8264 Aug 27 21:50	3°m/33'19			8265 Aug 17 18:22	0° m	
				max. Earth dist.	8265 Aug 17 19:47	0° ™ 07'41	1.31922 AU
superior conj	8264 Sep 03 23:36	18°M 56'17	1°10'53				
minimum elong	8264 Sep 03 21:20	18° m 43'48	1°10'30	superior conj	8265 Aug 19 09:59	3° m 37'01	0°50'44
max. Earth dist.	8264 Sep 03 11:14	17° m 47'44	1.31649 AU	minimum elong	8265 Aug 19 07:59	3° M 26'00	0°50'17
	8264 Sep 08 23:55	0∘ ⊽		evening rise	8265 Aug 26 04:44	18° m ,27'51	
evening rise	8264 Sep 10 17:48	3° ≏ 45'38			8265 Aug 31 19:17	0∘ ⊽	
	8264 Sep 24 14:53	0°M		desc. node	8265 Sep 17 23:18	26° ≙ 46'35	
desc. node	8264 Oct 01 02:13	9°M36'08		evening max el	8265 Sep 21 03:49		24°51'14
evening max el	8264 Oct 09 12:32	19°M19'41	26°14'08		8265 Sep 21 01:00	0°M	
retrograde	8264 Oct 23 10:40	26°M24'27		retrograde	8265 Oct 04 23:57	7°M05'00	
evening set min. Earth dist.	8264 Oct 29 23:13 8264 Nov 03 01:39	24°M41'44 22°M07'15	0.58885 AU	evening set min. Earth dist.	8265 Oct 10 11:48 8265 Oct 15 15:02	5°M57'09 3°M12'51	0.56941 AU
inferior conj	8264 Nov 06 05:54	19°M44'49		inferior conj	8265 Oct 18 09:23	1°ML25'01	
minimum elong	8264 Nov 06 03:54 8264 Nov 06 12:55	19°M31'39		minimum elong	8265 Oct 18 09:25 8265 Oct 18 12:51	1°ML19'22	
morning rise	8264 Nov 14 04:56	15°M14'52	4 40 24	minimum clong	8265 Oct 20 14:54	30°R <u>Ω</u>	3 20 12
direct	8264 Nov 16 11:16	14°M57'26		morning rise	8265 Oct 26 16:09	27° ₽ 17'52	
asc. node	8264 Nov 23 08:12	17° M 48'44		direct	8265 Oct 29 04:40	26° £ 59'59	
morning max el	8264 Nov 24 12:54	18°M53'17	18°27'23		8265 Nov 05 21:02	0°M	
C	8264 Dec 02 16:15	0°⊀		morning max el	8265 Nov 07 12:13	1°M25'11	19°18'54
morning set	8264 Dec 10 12:15	14° ₹ 24'40		asc. node	8265 Nov 10 05:12	4°ML21'06	
	8264 Dec 18 16:43	ರ°0		morning set	8265 Nov 24 13:23	28°M49'59	
					8265 Nov 25 03:24	0° ∡	
superior conj	8264 Dec 19 12:16	1° る 30'42	1°00'54				
minimum elong	8264 Dec 19 15:41	1° る 46'30	1°00'37	superior conj	8265 Dec 02 16:02		1°22'30
max. Earth dist.	8264 Dec 26 23:39	14° ろ 52'28	1.40427 AU	minimum elong	8265 Dec 02 18:57	15° ∡ 11′26	1°22'22
desc. node	8264 Dec 28 01:15	16°る42'24		max. Earth dist.	8265 Dec 09 05:24		1.38253 AU
evening rise	8264 Dec 31 07:42	22°る12'34			8265 Dec 10 17:05	0°る	
	8265 Jan 05 02:55	0° ₩		evening rise	8265 Dec 12 23:09	3°る59'13 7°る22'40	
evening max el	8265 Jan 25 19:40 8265 Feb 03 21:47	10° X 35'27	22028148	desc. node	8265 Dec 14 22:15 8265 Dec 29 05:06	0°≈	
retrograde	8265 Feb 14 16:15	16° X 56'35	23 38 48	evening max el	8266 Jan 17 10:57	0 ∞ 24°≈21'52	24°56'43
asc. node	8265 Feb 19 07:18	15°) 12'45		evening max er	8266 Jan 24 17:31	0° \	24 30 43
evening set	8265 Feb 19 19:19	14°)(48'31		retrograde	8266 Jan 29 06:20	1°) 13'46	
min. Earth dist.	8265 Feb 24 15:16	9°) 10'49	0.68298 AU		8266 Feb 02 09:12	30°R≈	
inferior conj	8265 Feb 25 05:44	8°) 21′22	1°50'28	evening set	8266 Feb 03 22:03	28° ≈ 52'36	
minimum elong	8265 Feb 25 03:37	8° ¥ 28'36	1°49'48	asc. node	8266 Feb 06 04:23	26° ≈ 36′13	
morning rise	8265 Mar 02 11:54	2° 升 16′57		min. Earth dist.	8266 Feb 08 10:13	23° ≈ 49′24	0.67779 AU
direct	8265 Mar 06 15:38	0°) 39′57		inferior conj	8266 Feb 09 12:08	22° ≈ 24'10	1°04'39
morning max el	8265 Mar 14 19:41	5° ∺ 20'06	20°45'22	minimum elong	8266 Feb 09 10:40	22° ≈ 29'01	1°04'11
desc. node	8265 Mar 26 00:56	19° ∺ 21'13		morning rise	8266 Feb 14 23:32	16° ≈ 26'59	
	8265 Apr 02 09:21	0° Υ		direct	8266 Feb 18 14:32	15° ≈ 11'29	
morning set	8265 Apr 13 11:58	16° Y 53'51		morning max el	8266 Feb 25 21:22	19°≈15'00	19°37'34
may Earth dist	8265 Apr 21 18:07	0°8	1.43140 AU	areatest brillianess	8266 Mar 06 13:04	0° 光 5° 光 53'02	0.7
max. Earth dist.	8265 Apr 21 20:51	0 01102	1.43140 AU	greatest brilliancy desc. node	8266 Mar 10 14:57	9° ★ 16'46	-0.7111
superior conj	8265 Apr 28 15:26	11° 8 21'46	-2°07'54	morning set	8266 Mar 12 21:52 8266 Mar 23 09:24	25° X 13'42	
minimum elong	8265 Apr 28 19:06	11° 8 37'10		morning set	8266 Mar 26 11:31	25 χ 13 4 2 0° Υ	
g	8265 May 09 10:00	0° Ⅱ	2 0, 00	max. Earth dist.	8266 Apr 04 09:06		1.44596 AU
evening rise	8265 May 10 16:00	2° Ⅱ 12'50			r		
asc. node	8265 May 18 06:10	15° Ⅱ 28'48		superior conj	8266 Apr 08 20:20	21° Y 03'50	-2°10'45
evening max el	8265 May 27 12:36	28° Ⅱ 32'09	18°05'18	minimum elong	8266 Apr 08 17:56	20° Y 54'12	2°10'46
	8265 May 29 04:40	0 \circ \odot			8266 Apr 14 08:20	9° 8	
retrograde	8265 Jun 03 01:45	1° 9 54'16		evening rise	8266 Apr 22 14:42	13° 8 46'13	
evening set	8265 Jun 05 16:59	1° 5 21'14			8266 May 02 08:34	$\Pi^{\circ}0$	
	8265 Jun 08 01:54	30°RⅡ		asc. node	8266 May 05 03:14	4° Ⅱ 17'57	
inferior conj	8265 Jun 12 05:28	26° Ⅱ 19'09		evening max el	8266 May 11 01:55	11° Ⅱ 53'12	18°13'56
minimum elong	8265 Jun 12 08:24	26°Ⅲ11'51		retrograde	8266 May 17 11:09	15° Ⅱ 16'29	
min. Earth dist.	8265 Jun 15 08:05	23° I I15'24	0.61382 AU	evening set	8266 May 20 09:32	14° Ⅱ 30'41	2007/50
morning rise	8265 Jun 18 21:36	20° Ⅱ 18'59		inferior conj	8266 May 26 09:41	9° Ⅱ 10'15	3°06'59
desc. node	8265 Jun 22 00:26	18° Ⅱ 40'33		minimum elong	8266 May 26 11:36	9° Ⅱ 04'51 6° Ⅱ 18'43	3°06'33
direct morning max el	8265 Jun 25 13:57 8265 Jul 09 19:37	18°П01'53 26°П01'50	27051156	min. Earth dist. morning rise	8266 May 28 23:24 8266 Jun 01 12:20	6°Щ18'43 2°Щ57'53	0.63517 AU
morning max ci	0200 jui 09 17.3/	20 11 01 30	21 3+30	morning 1150	0200 Juli 01 12.20	2 H 3/33	

8267 May 10 01:17

inferior conj

22°825'16 3°22'02

8268 Apr 17 14:33

evening set

11°850'04

inferior conj	8268 Apr 23 00:54	5° 8 57'38		asc. node	8269 Mar 25 18:30	26° Y ′26′20	
minimum elong	8268 Apr 23 00:15	5° 8 59'45		retrograde	8269 Mar 28 23:18	27° Y 18′20	
min. Earth dist.	8268 Apr 24 08:18	4° 8 14'57	0.66782 AU	evening set	8269 Apr 01 21:58	25° Y 48'37	
morning rise	8268 Apr 28 09:35	29° Ƴ 39'43		inferior conj	8269 Apr 07 05:44	19° Y ′42'41	3°08'52
	8268 Apr 28 00:49	30° Ŗ ♈		minimum elong	8269 Apr 07 04:09	19° Y 48′05	3°08'35
direct	8268 May 04 13:28	26° Y 56′08		min. Earth dist.	8269 Apr 07 22:55	18° Y ′44′00	0.67763 AU
	8268 May 12 01:40	0°8		morning rise	8269 Apr 12 10:07	13° Y 26'37	
desc. node	8268 May 12 15:28	0° 8 26'08		direct	8269 Apr 18 01:26	10° Y 55′52	
morning max el	8268 May 17 00:25	4° 8 23'05	25°50'44	morning max el	8269 Apr 29 09:32	17° Ƴ 42'55	24°26'15
	8268 Jun 05 14:22	Π $^{\circ}0$		desc. node	8269 Apr 29 12:27	17° Ƴ 50'19	
morning set	8268 Jun 22 03:16	27° Ⅱ 42'58			8269 May 09 16:02	0°8	
	8268 Jun 23 08:54	$0 {\circ} \mathfrak{S}$			8269 May 29 15:28	Π °0	
max. Earth dist.	8268 Jun 25 22:00	4° © 48'26	1.35590 AU	morning set	8269 Jun 04 04:55	9° Ⅱ 27'05	
				max. Earth dist.	8269 Jun 07 20:18	15° Ⅱ 55'24	1.37666 AU
superior conj	8268 Jul 01 12:38	15° © 51'02				_	
minimum elong	8268 Jul 01 14:34	16°900'48	0°32'37	superior conj	8269 Jun 14 19:11	28° Ⅱ 55'31	
asc. node	8268 Jul 04 20:29	22° © 38'23		minimum elong	8269 Jun 14 23:10	29° Ⅱ 14'47	1°04'11
	8268 Jul 08 10:06	$0^{\circ}\Omega$			8269 Jun 15 08:31	0	
evening rise	8268 Jul 09 10:03	2° Ω 03'05		asc. node	8269 Jun 21 17:31	12° © 34'25	
	8268 Jul 25 22:42	O° My		evening rise	8269 Jun 23 11:34	16° © 03'34	
evening max el	8268 Jul 27 10:28	1° m 34'18	20°14'32		8269 Jun 30 19:18	0 \circ Ω	
retrograde	8268 Aug 07 04:29	6° M 52'49		evening max el	8269 Jul 10 03:04	13° Ω 10'54	19°11'59
desc. node	8268 Aug 08 14:36	6° Mp 47′37		retrograde	8269 Jul 19 04:48	17° Ω 40'02	
evening set	8268 Aug 09 03:12	6° Mp 43′08		evening set	8269 Jul 21 02:13	17° Ω 29'08	
inferior conj	8268 Aug 18 05:59	2° Mp 45'06	-2°53'27	desc. node	8269 Jul 26 11:42	15° Ω 16'34	
minimum elong	8268 Aug 17 22:10	2° M 56'36	2°50'47	inferior conj	8269 Jul 29 13:51	13° Ω 18′07	-0°56'45
min. Earth dist.	8268 Aug 19 19:06	1° ™ 50'27	0.54937 AU	minimum elong	8269 Jul 29 11:22	13° Ω 22'18	0°55'55
	8268 Aug 23 04:04	30° ₽ Ω		min. Earth dist.	8269 Aug 01 08:29	11° Ω 26′50	0.56066 AU
morning rise	8268 Aug 26 16:05	28° Ω 35'32		morning rise	8269 Aug 06 17:36	8° Ω 33'54	
direct	8268 Aug 30 23:07	27° Ω 55'43		direct	8269 Aug 11 20:23	7° Ω 33'35	
	8268 Sep 07 10:26	O° Mp		morning max el	8269 Aug 26 00:11	14° Ω 45'34	25°33'41
morning max el	8268 Sep 13 11:24	4° Mp31′06	23°51'45		8269 Sep 07 03:44	O° m y	
asc. node	8268 Sep 30 20:05	29°Mp13'11		asc. node	8269 Sep 17 17:04	18° Mp 36′22	
	8268 Oct 01 06:02	0∘ ত		morning set	8269 Sep 22 05:27	27° m 54'46	
morning set	8268 Oct 07 17:59	13° ≏ 07'32			8269 Sep 23 04:50	0∘ ⊽	
superior conj	8268 Oct 14 16:04	28° ≙ 06'41	1°39'56	superior conj	8269 Sep 29 02:20	12° ≙ 55'49	1°32'51
minimum elong	8268 Oct 14 15:16	28° ჲ 02'23	1°39'59	minimum elong	8269 Sep 29 00:40	12° ≏ 46'34	1°32'44
	8268 Oct 15 13:01	0°M		max. Earth dist.	8269 Sep 30 06:53	15° ≏ 32'52	1.32160 AU
max. Earth dist.	8268 Oct 17 01:14	3° ™ 14'19	1.33071 AU	evening rise	8269 Oct 06 03:59	28° ჲ 09'03	
evening rise	8268 Oct 22 04:14	13°M52'50			8269 Oct 07 01:31	0° M ₊	
	8268 Oct 30 17:09	0° ∡ ¹		desc. node	8269 Oct 22 10:28	27°ML41'32	
desc. node	8268 Nov 04 13:23	8° ∡ 11'47			8269 Oct 23 22:49	0° ∡ 7	
	8268 Nov 20 04:11	0°ප		evening max el	8269 Nov 07 11:00	17° ∡ 59′02	27°24'18
evening max el	8268 Nov 25 01:42	5° る 09'31	27°25'54	retrograde	8269 Nov 21 06:20	25° х 13′30	
retrograde	8268 Dec 08 16:19	12° る 28'32		evening set	8269 Nov 28 08:51	22° ∡ ′50′51	
evening set	8268 Dec 15 15:58	9° る 54'44		min. Earth dist.	8269 Dec 02 01:03	19° ∡ 56'39	
min. Earth dist.	8268 Dec 19 10:46	6° る 32'54	0.64031 AU	inferior conj	8269 Dec 04 23:39	17° ∡ 13'27	-3°06'26
inferior conj	8268 Dec 21 23:10	3° る 55'54	-1°56'33	minimum elong	8269 Dec 05 05:32	16° ∡ 759'49	3°04'11
minimum elong	8268 Dec 22 02:47	3° る 46'28	1°54'55	morning rise	8269 Dec 12 04:22	12° ₹ 09'38	
	8268 Dec 26 04:25	30°₽ ⋌ ¹		direct	8269 Dec 14 10:46	11° ∡ 746'55	
asc. node	8268 Dec 27 19:32	28° ₹ 57'08		asc. node	8269 Dec 14 16:35	11° ∡7 47'11	
morning rise	8268 Dec 28 15:18	28° ∡ ³33'59		morning max el	8269 Dec 21 06:48	15° ∡ 15′25	17°49'44
direct	8268 Dec 31 02:25	28° ₰ 03'37			8269 Dec 31 12:34	0°₹	
	8269 Jan 04 22:59	0°ප		morning set	8270 Jan 06 02:43	9° る 53'12	
morning max el	8269 Jan 06 14:04	1° る 26'20	17°50'38				
morning set	8269 Jan 23 08:44	26° る 53'34		superior conj	8270 Jan 17 06:07	29° る 25'13	0°08'27
	8269 Jan 25 04:36	0° ≈		minimum elong	8270 Jan 17 06:55	29° る 28'38	0°08'29
desc. node	8269 Jan 31 12:40	10° ≈ 38′22		behind sun begin	8270 Jan 16 23:26	28° る 56'47	
				behind sun end	8270 Jan 17 14:25	0° ≈ 00′25	
superior conj	8269 Feb 05 08:25	18° ≈ 32'39	-0°34'30		8270 Jan 17 14:19	0° ≈	
minimum elong	8269 Feb 05 04:32	18° ≈ 16′56	0°33'50	desc. node	8270 Jan 18 09:39	1° ≈ 21'41	
max. Earth dist.	8269 Feb 10 16:55	27° ≈ 07'35	1.44784 AU	max. Earth dist.	8270 Jan 24 09:01	11° ≈ 14'15	1.43449 AU
	8269 Feb 12 12:33	0° ∀		evening rise	8270 Jan 31 17:48	22° ≈ 56′12	
evening rise	8269 Feb 21 03:39	13°) 24′19			8270 Feb 05 07:57	0°) €	
	8269 Mar 04 02:58	$0^{\circ}\Upsilon$			8270 Feb 26 09:35	0 ° Υ	
evening max el	8269 Mar 21 00:22	22° Y 40'06	20°23'26	evening max el	8270 Mar 03 21:33	6° Ƴ 19'43	21°34'18

Second S	. 1	9270 M 12 21 24	1100020102			0271 F 1 14 14 00	2001/01/01	22052142
Profession 1970 May 17 1967 1974 1	retrograde	8270 Mar 12 21:24	11° Υ 39'03		evening max el	8271 Feb 14 14:08	20° 米 01′01	22°52'42
Michael Control \$270 Mar 21 32 3794710 24938 miniminum olong \$270 Mar 21 743 3794721 349580 minimum olong \$270 Mar 21 743 3794721 329580 minimum olong \$270 Mar 21 743 329580					-			
minimathologing 870 Mars 12 1123 3"P4273 1 8"9273 4"14273 1 8"92733 1"14273 1 8"1273<	•							
min	·				•			
Manumar 1820 May 21 1922 2974 2794	•				3			
morning pince \$270 Apr 17 529 27 542 73 642	min. Earth dist.			0.68296 AU	2			
direct 827 May 10 1755 25°H12°N2 to 10 1755 45°H12°N2 to 10 1755 42°H12°N2 to 10 1755 25°H12°N2 to 10 1755 25°H12°N2 to 10 1755 25°H12°N2 to 10 175 25°N3 to 10 180 12°N3 to 10 180 12°N3 to 10 180 25°N3 to 10 180		8270 Mar 25 06:20	*			8271 Mar 06 14:25		0.68408 AU
1979 1979	•				•			
Montain part S270 Apr 1 932 1 970 970 275632 9857 9871 9871 9872 970 9872 970 9872	direct	•						
dec Report (a) Report (b) App (b)		-			-			21°30'26
Marting 1870 May 16 dot 0°8 2°8 2°8 140 2°8 2°8 1870 2°8 2°8 1870 2°8 2°8 1870 2°8 2°8 1870 2°8	Č	-		22°56'32	desc. node	8271 Apr 03 06:20		
Marx Earth May 16 1602 1602 17 1809	desc. node	8270 Apr 16 09:24				8271 Apr 06 14:36		
max. Earth dist 8270 May 2 lo 1633 2°9 3147 1.9911 AU men. Earth dist 871 May 0 1731 9°8508 1.4205 XD superior conj 8270 May 2 lo 103 11"11 1500 - 1"3417 munimum clong 8271 May 10 1010 22°83755 1-5855 evening real 8270 May 2 lo 103 11"11 1500 - 1"3417 munimum clong 8271 May 10 1101 22°80170 1"5840 evening real 8270 May 2 lo 143 19"11 1502 evening real 8271 May 10 1101 22°80170 1"5840 exended 8270 May 3 lo 1435 22°81917 evening max 6 8271 May 10 1611 22°81971 1"5840 extening each 8270 May 3 lo 1845 22°81917 evening max 6 8271 May 10 1611 1"5840 1"5840 extening each 8270 May 3 lo 1845 22°81918 18"3019 evening max 6 8271 May 10 1612 1"19"3640 1"19"3640 extening each 8270 May 3 lo 1842 42°8328 19"48174 inferior conj 8271 May 10 1612 2"19"481 1"19"4922 1"19"4922 1"19"4922 1"19"4922 1"19"4922 1"19"4922		8270 May 03 14:01	9° 8		morning set	8271 Apr 26 04:16		
Superior conj	morning set	8270 May 16 06:26	20° 8 02'37			8271 Apr 26 14:03	9° 8	
Septical contained Septical contails Sep	max. Earth dist.	8270 May 20 16:53		1.39911 AU	max. Earth dist.	8271 May 02 17:31	9° 8 56'43	1.42055 AU
		8270 May 22 03:11	Π $^{\circ}0$					
minimal mellong 8270 May 2 8 16.03 1°E14039 1°E4403 evening rise 2271 May 2 10.815 2°E17941					superior conj	8271 May 10 05:39	22° 8 37'55	-1°58'55
Persign rise Republic Repub	superior conj	8270 May 28 10:27	11° Ⅱ 15′00	-1°34'47	minimum elong	8271 May 10 11:01	23° 8 01'10	1°58'40
Secondary 1970 1975 19	minimum elong	8270 May 28 16:03	11° Ⅱ 40'39	1°34'14		8271 May 14 10:20	$\Pi^{\circ}0$	
Section Sect	evening rise	8270 Jun 07 04:18	29° Ⅲ 36′02		evening rise	8271 May 21 08:15	12° Ⅲ 29'41	
Properties Pro		8270 Jun 07 09:19	0°€		asc. node	8271 May 26 11:37	21° Ⅱ 47'16	
Pertograde 1970 Jun 30 23.53 29%	asc. node	8270 Jun 08 14:35	2° © 19'17			8271 May 31 08:15	0 \circ \mathfrak{S}	
evening set 8270 Jul 03 02.51 29°80301 04°817 11°82031 11°820	evening max el	8270 Jun 23 06:16	25°\$28'56	18°30'19	evening max el	8271 Jun 06 16:14	8° © 18'53	18°08'54
inferior conj 8.70 Jul 10 18.45 24°8329′S 0°450′A 0°450′A minimum elong 8.271 Jun 22 20.49 6°520°M 20°11′A 20°21′A 20°11′A 20°11′A 20°21′A 20°11′A 20°11′A 20°21′A 20°21′A 20°11′A 20°21′A 20°21	retrograde	8270 Jun 30 23:35	29° © 19'48		retrograde	8271 Jun 13 12:24	11°9546'50	
minimum clong R.270 Jul 10 20.22 24*829.943 04*802 minimum clong R.271 Jun 22 23*49 06*823*11 2001 30 60.006 AU minim. Earth dist. 8270 Jul 14 03:05 21*925607 0.75892 AU morning rise 8271 Jun 20 04:32 36*9200 0.6006 AU morning rise 8270 Jul 14 03:05 21*925607 0.75892 AU morning rise 8271 Jun 20 05:49 0.65284 14 00 05:24 1	evening set	8270 Jul 03 02:51	29° © 03'01		evening set	8271 Jun 15 23:17	11°520'33	
minimum clong R.270 Jul 10 20.22 24*829.943 04*802 minimum clong R.271 Jun 22 23*49 06*823*11 2001 30 60.006 AU minim. Earth dist. 8270 Jul 14 03:05 21*925607 0.75892 AU morning rise 8271 Jun 20 04:32 36*9200 0.6006 AU morning rise 8270 Jul 14 03:05 21*925607 0.75892 AU morning rise 8271 Jun 20 05:49 0.65284 14 00 05:24 1	inferior conj	8270 Jul 10 18:45	24°932'54	0°45'47	inferior conj	8271 Jun 22 20:47	6° ॐ 30′09	2°01'16
Second S		8270 Jul 10 20:22	24° © 29'43	0°45'02	=	8271 Jun 22 23:49	6°€23'11	2°00'13
min. Earth dist. 8270 Jul 14 03:05 21°256707 0.57892 AU morning rise 8271 Jul 03 00.549 0°262415 Core 2271 Jul 03 00.549 0°262413 0°274401	•	8270 Jul 13 08:46	22° © 30'53		C	8271 Jun 26 04:32	3°529'00	0.60086 AU
moming rise 8270 Jul 18 10-24 19°201 Set 18 20° 10° 20° 18° 18° 10° 10° 20° 18° 18° 10° 10° 20° 10° 17° 10° 10° 20° 20° 17° 10° 10° 20° 20° 10° 10° 10° 20° 20° 10° 10° 10° 20° 20° 20° 10° 10° 10° 20° 20° 20° 10° 10° 10° 20° 20° 20° 20° 20° 20° 20° 20° 20° 2	min. Earth dist.			0.57892 AU		8271 Jun 29 21:31	0° © 41'14	
direct 8270 Jul 24 08:20 17°942′26 seroning maxed 8271 Jul 06 09:20 28°II3′91 20°82 Ill morning max el 8270 Aug 12 01:22 0°Ω seroning maxed 8271 Jul 06 09:20 28°II3′91 20°9 3271 Jul 06 09:20 28°II3′91 20°9 3271 Jul 12:05 0°G 3271 Jul 12:05 0°G 27°44′01 3271 Jul 12:05 0°G 27°44′01 3271 Jul 12:05 0°G 27°44′01 3271 Jul 20 17:41 6°G35′06 27°44′01 327°44′01 327°1 Jul 20 17:41 6°G35′06 27°44′01 327°1 Jul 20 17:41 27°40′01 327°1 Jul 20 17:41 6°G37′01 327°1 Jul 20 17:41 6°G37′01 327°1 Jul 20 17:41 6°G35′01 327°1 Jul 20 17:41 6°G37′01 327°1 J					=			
moming max ell Paron Aug 1 0 17:40 25° 52'113 26° 55'17 direct 8271 Jul 1 1 2:05 0° 28° 139'51	•							
Second				26°55'17	direct			
Second		•						
SZ70 SQP 04 14:03 S® 18*25 Morning set SZ71 Aug 07 08:20 0*分 C**1 Aug 07 08:20 0*分 C**1 Aug 07 08:20 C**1		•			morning max el			27°44'01
moming set	asc node	-			morning man vi			2,
superior conj 8270 Sep 13 14:06 27° \$\pa\$4621 1°20'22 8271 Aug 23 07:15 0° \$\pa\$ minimum elong 8270 Sep 13 11:56 27° \$\pa\$4718 1°20'204 max. Earth dist. 8271 Aug 23 07:15 0° \$\pa\$2757 1.31704 AU max. Earth dist. 8270 Sep 13 16:56 27° \$\pa\$4718 1°20'04 max. Earth dist. 8271 Aug 28 02:16 10° \$\pa\$2575 1.31704 AU evening rise 8270 Sep 14 14:11 0° \$\pa\$ superior conj 8271 Aug 29 01:31 12° \$\pa\$227 1°02'55 evening rise 8270 Sep 29 04:13 0° \$\pa\$ evening rise 8271 Sep 04 19:27 27° \$\pa\$270 36 desc. node 8270 Oct 20 14:29 0° \$\pa\$40:30 26° 49'11 8271 Sep 06 01:28 0° \$\pa\$ evening max el 8270 Nov 03 12:21 7° \$\pa\$1332 evening max el 8271 Sep 06 01:28 0° \$\pa\$ evening set 8270 Nov 10 09:11 5° \$\pa\$1303 retrograde 8271 Sep 06 04:39 4° \$\pa\$132 evening set 8270 Nov 10 09:11 5° \$\pa\$1303 retrograde 8271 Sep 06 04:39 4° \$\pa\$1259 inferior conj		-	•		morning set	Č		
superior conj 8270 Sep 13 14:06 27° m/46'21 1°20'22 max. Earth dist. 8271 Aug 23 07:15 0° m 1.31704 AU max. Earth dist. 8270 Sep 13 16:26 27° m/59'19 1.31703 AU wax. Earth dist. 8271 Aug 28 02:16 10° m/23'57 1.31704 AU evening rise 8270 Sep 14 14:11 0° m superior conj 8271 Aug 29 01:31 12° m/20'21 1°02'55 desc. node 8270 Sep 29 09:49 12° m/24'03 minimum elong 8271 Aug 28 23:18 12° m/20'14 1°02'29 desc. node 8270 Oct 20 14:29 0° m/3 16° m/30'56 evening rise 8271 Sep 0 60 19:28 0° m/2 0° m/2 evening max el 8270 Oct 20 14:29 0° m/2 evening max el 8271 Sep 20 60 4:39 4° m/12'3'5 evening max el 8271 Sep 20 60 4:39 4° m/12'3'5 evening set 8271 Oct 20 10:21 11° m/20'0 25° 41'47 evening set 8270 Nov 10 09:11 5° m/313 6° m/20'1 evening set 8271 Oct 20 10:21 11° m/20'1 5° 8'13'0 inferior conj 8270 Nov 17 09:13 0° m/20'1 4° 10'1	morning sec	0270 Sep 00 13.01	12 193107		•	=		
minimum elong	superior coni	8270 Sep. 13 14:06	27° m 46'21	1°20'22	use. House	•		
max. Earth dist. 8270 Sep 14 14:11 0° € superior conj 8271 Aug 29 01:31 12° ™32°7 1°0255 evening rise 8270 Sep 20 09:49 1°2° ±04°30 superior conj 8271 Aug 29 01:31 12° ™32°7 1°0255 desc. node 8270 Sep 20 09:49 0° ±04°30 evening rise 8271 Sep 06 01:28 0° ±07°00 2° ™20°30 desc. node 8270 Oct 20 14:29 0° ₹04°30 26°49′11 8271 Sep 22 22:00 0° № evening max el 8270 Oct 20 12:35 0° ₹ desc. node 8271 Sep 26 04:39 4° ™23′59 evening set 8270 Nov 10 10:911 5° ₹ № № desc. node 8271 Oct 20 12:01 11° ™20′00 25° 41'47 evening set 8270 Nov 10 09:11 5° ₹ № № 4° 11'52 retrograde 8271 Oct 20 10:21 11° ™20′00 25° 41'47 minimum elong 8270 Nov 17 09:13 0° ₹ № № 4° 11'52 minimum elong 8271 Oct 20 10:22 12° № 33 30° № 1 morning rise 8270 Nov 17 09:13 30° ₹ № 1 minimum elong 8271 Oct 30 06:32 11° № 18′12 9° 5° 5′1	1 3	=	•		max Earth dist	=		1 31704 AU
evening rise 8270 Sep 14 14:11 0°	•	•			max. Darm dist.	0271 11 45 20 02.10	10 11,2337	1.51701710
Sevening rise Rey 20 O9:49 Rey 20 O9:49 OP:40 O	max. Earth dist.	•		1.51705 110	superior coni	8271 Aug 29 01:31	12° m 32'27	1°02'55
Seconde Sec	evening rise	*			1 3	•		
desc. node 8270 Oct 09 07:33 16° 11.30′56	evening rise	-			•	•	~	1 022)
evening max el 8270 Oct 20 14:29 0° \$\times 0' \times 0	desc node	=			evening rise	-	-	
Refrigate Ref				26°49'11		•		
evening set 8270 Nov 03 12:21 7° x³ 13'32 evening max el retrograde 8271 Oct 02 10:21 11° 11° 1120′06 25° 41'47 evening set 8270 Nov 10 09:11 5° x³ 13'03 retrograde 8271 Oct 16 08:40 18° 1123'03 min. Earth dist. 8270 Nov 14 04:39 2° x³ 35'50 0.60084 AU evening set 8271 Oct 22 12:04 16° 11.55'53 inferior conj 8270 Nov 17 09:13 0° x³ 00′42 4° 14′01 min. Earth dist. 8271 Oct 26 22:48 14° 11.81'19 0.58018 AU minimum elong 8270 Nov 17 16:29 29° 11.45'55 4° 11'52 inferior conj 8271 Oct 30 00:29 12° 11.08'34 5° 08'57 8270 Nov 17 09:33 30° 81 minimum elong 8270 Nov 17 09:33 30° 81 minimum elong 8271 Nov 18 00:32 11° 11.55'75 5° 07'51 morning rise 8270 Nov 25 02:11 24° 11.59′02 morning rise 8271 Nov 07 03:20 7° 11.48'30 5° 07'51 asc. node 8270 Dec 01 13:38 26° 11.15'3 morning max el 8271 Nov 18 01:04 11° 11.85'54 18° 46'31 morning max el 8270 Dec 06 01:09 0° x³ 8270 Nov 30 07:13 0° x³ 8271 Nov 18 01:04 11° 11.85'54 18° 46'31 morning set 8270 Dec 23 22:17 0° 5′ 8270 Dec 23 22:17 0° 5′ 8270 Dec 23 22:17 0° 5′ 8270 Dec 30 04:30 11° 528'11 0° 44'20 minimum elong 8270 Dec 30 07:35 11° 528'11 0° 44'20 minimum elong 8270 Dec 30 07:35 11° 528'11 0° 44'20 minimum elong 8270 Dec 30 07:35 11° 528'11 0° 44'20 minimum elong 8271 Dec 12 23:03 24° x³ 24'51 1° 10'154 minimum elong 8270 Dec 30 07:35 11° 524'53 1.41615 AU desc. node 8271 Dec 24 02:13 14° 526'22 evening rise 8271 Jan 09 23:58 0° 82 evening rise 8271 Dec 24 02:13 14° 526'22 evening rise 8271 Jan 09 23:58 0° 82 evening rise 8271 Dec 24 02:13 14° 526'22 evening rise 8271 Jan 09 23:58 0° 82 evening rise 8272 Jan 02 17:12 0° 82 evening rise	evening max er			20 4711	desc node	•		
evening set 8270 Nov 10 09:11 5° x³ 13'03 retrograde 8271 Oct 16 08:40 18° 11.23'03 retrograde min. Earth dist. 8270 Nov 14 04:39 2° x³ 35'50 0.60084 AU evening set 8271 Oct 22 12:04 16° 11.54'53 rinferior conj 8270 Nov 17 09:13 0° x³ 00'42 4° 14'01 min. Earth dist. 8271 Oct 26 22:48 14° 11.18'19 0.58018 AU minimum elong 8270 Nov 17 16:29 29° 11.45'55 4° 11'52 inferior conj 8271 Oct 30 00:29 12° 11.08'134 -5° 08'57 8270 Nov 17 09:33 30° R 11.52 inferior conj 8271 Oct 30 00:29 12° 11.08'75'1 5° 07'51 morning rise 8270 Nov 25 02:11 25° 11.8'102 morning rise 8271 Nov 07 03:20 7° 11.48'30 direct 8270 Nov 27 07:11 24° 11.59'42 direct 8271 Nov 09 11:27 7° 11.31'21 asc. node 8270 Dec 01 13:38 26° 11.1'53 morning max el 8270 Dec 04 19:42 28° 11.42'57 18° 07'48 asc. node 8271 Nov 18 10:34 12° 11.0' 11	ratrograda					•		25041147
min. Earth dist. 8270 Nov 14 04:39	•				-			23 41 47
minferior conj 8270 Nov 17 09:13 0° x 00'42 -4° 14'01 min. Earth dist. 8271 Oct 26 22:48 14° 11.8'19 0.58018 AU minimum elong 8270 Nov 17 16:29 29° 11.45'55 4° 11'52 inferior conj 8271 Oct 30 00:29 12° 10.08'34 -5° 08'57 8270 Nov 17 09:33 30° k 1 minimum elong 8271 Oct 30 06:32 11° 10.57'51 5° 07'51 morning rise 8270 Nov 25 02:11 25° 11.8'02 morning rise 8271 Nov 07 03:20 7° 11.48'30 4° 11.55' 12.8' 11.50' 12.8' 12.	-			0.60084.411	-			
minimum elong 8270 Nov 17 16:29 29°M.45'55 4°11'52 inferior conj 8271 Oct 30 00:29 12°M.08'34 -5°08'57 8270 Nov 17 09:33 30°RM. minimum elong 8271 Oct 30 06:32 11°M.57'51 5°07'51 morning rise 8270 Nov 25 02:11 25°M.18'02 morning rise 8271 Nov 07 03:20 7°M.48'30 clirect 8270 Nov 27 07:11 24°M.59'42 direct 8271 Nov 09 11:27 7°M.31'21 asc. node 8270 Dec 01 13:38 26°M.11'53 morning max el 8271 Nov 18 01:04 11°M.38'54 18°46'31 morning max el 8270 Dec 04 19:42 28°M.42'57 18°07'48 asc. node 8271 Nov 18 10:38 12°M.02'23 8270 Dec 06 01:09 0° № 18270 Dec 06 01:09 0° № 18270 Dec 04 09:02 7° № 50'21 1820 Dec 04 09:02 12:25 1820 Dec 04 09:02 1820 Dec 04 0					=			0.50010 ATT
Morning rise 8270 Nov 17 09:33 30°R ML minimum elong 8271 Oct 30 06:32 11°M 57'51 5°07'51	·							
morning rise 8270 Nov 25 02:11 25°NL18'02 morning rise 8271 Nov 07 03:20 7°NL48'30 direct 8270 Nov 27 07:11 24°NL59'42 direct 8271 Nov 09 11:27 7°NL31'21 asc. node 8270 Dec 01 13:38 26°NL11'53 morning max el 8270 Dec 04 19:42 28°NL42'57 18°07'48 asc. node 8271 Nov 18 10:38 12°NL02'23 8270 Dec 06 01:09 0° ✓ 8270 Dec 06 01:09 0° ✓ 8270 Dec 20 12:25 23° ✓ 36'37 morning set 8270 Dec 20 12:25 23° ✓ 36'37 morning set 8270 Dec 20 12:25 8270 Dec 2	minimum clong			4 11 32	·			
direct 8270 Nov 27 07:11 24° 11.59′ 42 direct 8271 Nov 09 11:27 7° 11.31′ 21 asc. node 8270 Dec 01 13:38 26° 11.1′53 morning max el 8271 Nov 18 01:04 11° 11.38′ 54 18° 46′ 31 morning max el 8270 Dec 04 19:42 28° 11.42′ 57 18° 07′ 48 asc. node 8271 Nov 18 10:38 12° 11.02′ 23 8270 Dec 06 01:09 0° ₹ 8271 Nov 30 07:13 0° ₹ 8271 Nov 30 07:13 0° ₹ 8270 Dec 20 12:25 23° ₹ 36′ 37 morning set 8270 Dec 20 12:25 23° ₹ 36′ 37 morning set 8270 Dec 20 12:25 23° ₹ 36′ 37 superior conj 8270 Dec 20 12:25 23° ₹ 36′ 37 superior conj 8270 Dec 30 04:30 11° ₹ 28′ 11 0° ₹ 42′ 20 minimum elong 8270 Dec 30 07:35 11° ₹ 42′ 20 minimum elong 8271 Dec 12 23:03 24° ₹ 44′ 36 1° 10′ 54 minimum elong 8270 Dec 30 07:35 11° ₹ 42′ 20 minimum elong 8271 Dec 15 22:03 0° ₹ 42′ 20′ 20′ 20′ 20′ 20′ 20′ 20′ 20′ 20′ 2	morning rise				•			3 0/31
asc. node 8270 Dec 01 13:38 26°	•				•			
morning max el 8270 Dec 04 19:42 28°肌42'57 18°07'48 asc. node 8271 Nov 18 10:38 12°肌02'23 22'1 のマメー morning set 8270 Dec 20 12:25 23°メ36'37 morning set 8270 Dec 23 22:17 0°舌 superior conj 8270 Dec 30 04:30 11°舌28'11 0°44'20 minimum elong 8271 Dec 12 23:03 24°メ28'51 1°11'10 superior conj 8270 Dec 30 07:35 11°舌42'01 0°44'03 8271 Dec 15 22:03 0°舌 desc. node 8271 Jan 05 06:37 22°♂66'38 max. Earth dist. 8271 Dec 20 02:38 7°云33'12 1.39503 AU max. Earth dist. 8271 Jan 09 23:58 0°≈ evening rise 8271 Dec 24 02:13 14°云26'22 evening rise 8271 Jan 12 23:10 3°≈11'51								10046121
8270 Dec 06 01:09 0°ネ 8271 Nov 30 07:13 0°ネ 8271 Dec 04 09:02 7°ネ50'21 8270 Dec 20 12:25 23°ネ36'37 morning set 8271 Dec 04 09:02 7°ネ50'21 8270 Dec 23 22:17 0°舌 superior conj 8271 Dec 12 23:03 24°ネ28'51 1°11'10 superior conj 8270 Dec 30 04:30 11°云28'11 0°44'20 minimum elong 8271 Dec 13 02:23 24°ネ4'36 1°10'54 minimum elong 8270 Dec 30 07:35 11°云42'01 0°44'03 8271 Dec 15 22:03 0°云				10007140	=			16 40 31
morning set 8270 Dec 20 12:25 23°\$\frac{\sigma}{3}6'37\$ morning set 8271 Dec 04 09:02 7°\$\frac{\sigma}{5}0'21\$ superior conj 8271 Dec 12 23:03 24°\$\frac{\sigma}{2}8'50'21\$ superior conj 8271 Dec 12 23:03 24°\$\frac{\sigma}{2}8'51 10'11'10\$ superior conj 8270 Dec 30 04:30 11°\$\frac{\sigma}{2}8'11 0°44'20 minimum elong 8271 Dec 13 02:23 24°\$\frac{\sigma}{2}4'4'36 1°10'54\$ minimum elong 8270 Dec 30 07:35 11°\$\frac{\sigma}{2}4'0'1 0°44'03 8271 Dec 15 22:03 0°\$\frac{\sigma}{2}\$ 40°\$\frac{\sigma}{2}3'12 1.39503 AU max. Earth dist. 8271 Jan 05 06:37 22°\$\frac{\sigma}{2}6'4'33 1.41615 AU desc. node 8271 Dec 20 02:38 7°\$\frac{\sigma}{3}3'12 1.39503 AU evening rise 8271 Jan 12 23:10 3°\$\sigma 11 23:10 3°\$\sigma 11'51 \ 8271 Jan 02 17:12 0°\$\sigma 11'52'21 0°\$\sigma 11'51'51 \ 8271 Jan 02 17:12 0°\$\sigma 11'51'51'51'51'51'51'51'51'51'51'51'51'5	morning max er			10 0/40	asc. node			
8270 Dec 23 22:17 0°号 superior conj 8271 Dec 12 23:03 24° ** 28'51 1°11'10 superior conj 8270 Dec 30 04:30 11° ** 28'11 0°44'20 minimum elong 8271 Dec 13 02:23 24° ** 44'36 1°10'54 minimum elong 8270 Dec 30 07:35 11° ** 342'01 0°44'03 8271 Dec 15 22:03 0° ** 36' 35' 11° ** 342'01 0°44'03 8271 Dec 15 22:03 0° ** 38271 Dec 20 02:38 7° ** 33'12 1.39503 AU max. Earth dist. 8271 Jan 06 19:56 24° ** 344'33 1.41615 AU desc. node 8271 Dec 23 03:36 12° ** 550'07 evening rise 8271 Jan 09 23:58 0° ** evening rise 8271 Dec 24 02:13 14° ** 32'2 Dec 25 03' 35' 35' 35' 35' 35' 35' 35' 35' 35' 3	marning got				marning sat			
superior conj 8270 Dec 30 04:30 11°528'11 0°44'20 minimum elong 8271 Dec 13 02:23 24° ₹28'51 1°11'10 superior conj 8270 Dec 30 04:30 11°528'11 0°44'20 minimum elong 8271 Dec 13 02:23 24° ₹44'36 1°10'54 minimum elong 8270 Dec 30 07:35 11°542'01 0°44'03 8271 Dec 15 22:03 0°5 0°5 desc. node 8271 Jan 06 19:56 24°54'4'33 1.41615 AU desc. node 8271 Dec 20 02:38 7°533'12 1.39503 AU max. Earth dist. 8271 Jan 09 23:58 0°≈ evening rise 8271 Dec 24 02:13 14°526'22 evening rise 8272 Jan 02 17:12 0°≈ Evening rise	morning set				morning set	62/1 Dec 04 09:02	/ X'30'21	
superior conj 8270 Dec 30 04:30 11°♂28'11 0°44'20 minimum elong 8271 Dec 13 02:23 24° 🗷 44'36 1°10'54 minimum elong 8270 Dec 30 07:35 11°♂42'01 0°44'03 8271 Dec 15 22:03 0°♂ desc. node 8271 Jan 05 06:37 22°♂506'38 max. Earth dist. 8271 Dec 20 02:38 7°♂33'12 1.39503 AU max. Earth dist. 8271 Jan 06 19:56 24°♂44'33 1.41615 AU desc. node 8271 Dec 23 03:36 12°♂50'07 evening rise 8271 Jan 09 23:58 0°≈ evening rise 8271 Dec 24 02:13 14°♂26'22 evening rise 8271 Jan 11 23:10 3°≈11'51 8272 Jan 02 17:12 0°≈		82/0 Dec 23 22:17	0-0			9271 Day 12 22-02	249.720051	1011110
minimum elong 8270 Dec 30 07:35 11°る42'01 0°44'03 8271 Dec 15 22:03 0°る desc. node 8271 Jan 05 06:37 22°る06'38 max. Earth dist. 8271 Dec 20 02:38 7°る33'12 1.39503 AU max. Earth dist. 8271 Jan 06 19:56 24°る4'33 1.41615 AU desc. node 8271 Dec 23 03:36 12°る50'07 evening rise 8271 Jan 09 23:58 0°≈ evening rise 8271 Dec 24 02:13 14°る26'22 evening rise 8271 Jan 11 23:10 3°≈11'51 8272 Jan 02 17:12 0°≈	aumonia '	9270 D 20 04 20	110-20011	0044130				
desc. node 8271 Jan 05 06:37 22°306'38 max. Earth dist. 8271 Dec 20 02:38 7°33'12 1.39503 AU max. Earth dist. 8271 Jan 06 19:56 24°34'33 1.41615 AU desc. node 8271 Dec 23 03:36 12°350'07 evening rise 8271 Jan 09 23:58 0°% evening rise 8271 Jan 02 17:12 0°% evening rise 8271 Jan 02 17:12 0°% evening rise 8271 Jan 04 17:12 0°% evening rise 8271 Jan 05 06:37 22°30'36 12°350'07 evening rise 8271 Jan 05 06:37 22°30'36 12°350'07 evening rise 8271 Jan 07:12 0°% evening rise 07:12 07:12 0°% evening rise 07					iiiiiimum eiong			1 10 34
max. Earth dist. 8271 Jan 06 19:56 24° ₹ 44'33 1.41615 AU desc. node 8271 Dec 23 03:36 12° ₹ 50'07 8271 Jan 09 23:58 0° ≈ evening rise 8271 Dec 24 02:13 14° ₹ 26'22 evening rise 8271 Jan 11 23:10 3° ≈ 11'51 8272 Jan 02 17:12 0° ≈	Č			0-44 03	F d F :			1 20502 433
8271 Jan 09 23:58 0°≈ evening rise 8271 Dec 24 02:13 14°₹26′22 evening rise 8271 Jan 11 23:10 3°≈11′51 8272 Jan 02 17:12 0°≈				1 41615 411				1.393U3 AU
evening rise 8271 Jan 11 23:10 3°≈11'51 8272 Jan 02 17:12 0°≈	max. Earth dist.			1.41013 AU				
	ovonini				evening rise			
$82/2 \text{Jan} 29 10.20 \text{U} \text{K}$ $82/2 \text{Jan} 24 15:13 \text{U}^{\circ} \text{K}$	evening rise							
		62/1 Jan 29 16:26	υ° π			62/2 Jan 24 15:13	υ· 大	

	9272 I 29 04-10	201/4/20	24912140		9272 I 21 21.54	24925107	
evening max el	8272 Jan 28 04:10	3° ¥ 46′28	24°12'40	retrograde	8273 Jan 21 21:54	24°≈35'07	
retrograde	8272 Feb 08 09:55	10° ¥ 22'06 8° ¥ 08'28		evening set	8273 Jan 27 18:58	22°≈09'33	
evening set	8272 Feb 13 18:10			asc. node	8273 Jan 31 06:50	18°≈28'14	0.67440.411
asc. node	8272 Feb 14 09:47	7°) 33'21	0.60122.411	min. Earth dist.	8273 Feb 01 04:19	17°≈20'56	0.67448 AU
min. Earth dist.	8272 Feb 18 10:44	2°) (45'09	0.68122 AU	inferior conj	8273 Feb 02 11:00	15°≈42'18	0°42'51
inferior conj	8272 Feb 19 06:00	1°) (40'07	1°32'02	minimum elong	8273 Feb 02 09:58	15° ≈ 45'39	0°42'34
minimum elong	8272 Feb 19 04:06	1° ¥ 46'33	1°31'26	morning rise	8273 Feb 08 01:19	9°≈48'36	
	8272 Feb 20 12:03	30°R≈		direct	8273 Feb 11 11:27	8°≈41'17	10012117
morning rise	8272 Feb 24 14:04	25°≈38'18		morning max el	8273 Feb 18 11:19	12° ≈ 32'37	19°13'16
direct	8272 Feb 28 12:15	24°≈10'33	2001 4140	greatest brilliancy	8273 Mar 03 16:39	0°) €09'34	-0.7m
morning max el	8272 Mar 07 06:23	28° ≈ 33'51	20°14'40	1 1	8273 Mar 03 14:06	0°) {	
	8272 Mar 08 15:26	0°) (desc. node	8273 Mar 07 00:11	5°) 10′53	
desc. node	8272 Mar 20 03:15	15°) €06'19		morning set	8273 Mar 14 05:26	16°) € 17'12	
	8272 Mar 30 03:32	0°Υ 5° Ω (443)		P. 4. P.	8273 Mar 23 01:15	0°Υ 5°Ω1 (12.5	1 45000 477
morning set	8272 Apr 04 04:49	7° Y 44'38	1 12022 177	max. Earth dist.	8273 Mar 27 16:33	7° Y 16′25	1.45028 AU
max. Earth dist.	8272 Apr 14 01:33	23° Y 15'07	1.43833 AU				
	8272 Apr 18 05:42	9° 8		superior conj	8273 Mar 30 20:11	12° Y 15′19	
				minimum elong	8273 Mar 30 14:44	11° Y 53'40	2°05'50
superior conj	8272 Apr 20 00:49	2° 8 56'45			8273 Apr 10 20:27	0° 8	
minimum elong	8272 Apr 20 02:19	3° 8 02'56	2°11'25	evening rise	8273 Apr 14 07:51	5° 8 42'48	
evening rise	8272 May 02 18:53	24° 8 34'30		asc. node	8273 Apr 29 05:43	29° 8 27'47	
	8272 May 05 21:56	Π °0			8273 Apr 29 15:04	Π °0	
asc. node	8272 May 12 08:40	10° Ⅱ 52'35		evening max el	8273 May 03 18:18	4° Ⅱ 57'47	18°23'13
evening max el	8272 May 20 05:18	21° Ⅱ 31'17	18°06'48	retrograde	8273 May 10 04:27	8° Ⅱ 25′16	
retrograde	8272 May 26 15:28	24° ∏ 51'51		evening set	8273 May 13 06:03	7° Ⅱ 33'27	
evening set	8272 May 29 09:51	24° Ⅱ 13'31		inferior conj	8273 May 19 02:06	2° Ⅱ 05'35	3°15'30
inferior conj	8272 Jun 04 16:36	19° Ⅱ 03'37	2°49'39	minimum elong	8273 May 19 03:28	2° Ⅱ 01'35	3°15'12
minimum elong	8272 Jun 04 19:12	18° Ⅱ 56'50	2°48'58		8273 May 20 21:10	30° ₹႘	
min. Earth dist.	8272 Jun 07 14:20	16° Ⅱ 02'32	0.62320 AU	min. Earth dist.	8273 May 21 09:25	29° 8 25'07	0.64342 AU
morning rise	8272 Jun 11 02:44	12° Ⅱ 57'30		morning rise	8273 May 24 23:54	25° 8 50'38	
desc. node	8272 Jun 16 02:51	10° Ⅲ 39'36		direct	8273 May 31 16:45	23° 8 07'40	
direct	8272 Jun 17 20:57	10° Ⅱ 29'57		desc. node	8273 Jun 02 23:51	23° 8 24'42	
morning max el	8272 Jul 01 23:29	18° Ⅱ 31'57	27°54'44		8273 Jun 13 05:53	Π \circ 0	
	8272 Jul 11 14:59	0 \circ \odot		morning max el	8273 Jun 14 09:01	1° Ⅱ 06'40	27°29'04
	8272 Jul 30 04:51	$0^{\circ}\Omega$			8273 Jul 05 17:55	0 \circ \odot	
morning set	8272 Aug 04 21:23	11° Ω 07'00		morning set	8273 Jul 19 13:34	24°9547'31	
asc. node	8272 Aug 08 07:59	18° Ω 15'50			8273 Jul 22 04:07	$0^{\circ}\Omega$	
max. Earth dist.	8272 Aug 10 08:39	22° Ω 36′01	1.32177 AU	max. Earth dist.	8273 Jul 24 07:52	4° Ω 25'44	1.33128 AU
				asc. node	8273 Jul 26 04:57	8° Ω 21′58	
superior conj	8272 Aug 12 10:46	27° Ω 08'04	0°40'52				
minimum elong	8272 Aug 12 09:01	26° Ω 58'34	0°40'25	superior conj	8273 Jul 27 15:53	11° Ω 27'29	0°14'43
	8272 Aug 13 18:11	0° m		minimum elong	8273 Jul 27 15:10	11° Ω 23'37	0°14'26
evening rise	8272 Aug 19 06:54	12° Mp 03'00		behind sun begin	8273 Jul 27 12:47	11° Ω 10′56	
	8272 Aug 28 07:31	0∘ ⊽		behind sun end	8273 Jul 27 17:32	11° Ω 36′17	
desc. node	8272 Sep 12 01:45	20° ჲ 58′00		evening rise	8273 Aug 03 18:18	26° Ω 41'57	
evening max el	8272 Sep 12 23:20	21° ≏ 51'23	24°10'33		8273 Aug 05 07:58	0° m y	
retrograde	8272 Sep 26 16:43	28° ≏ 44'06			8273 Aug 23 11:54	0∘ ⊽	
evening set	8272 Oct 01 14:08	27° £ 51′26		evening max el	8273 Aug 25 11:24	2° ₽ 04'02	22°31'08
min. Earth dist.	8272 Oct 07 10:06	24° ≙ 57'07	0.56233 AU	desc. node	8273 Aug 29 22:51	5° ≙ 44'10	
inferior conj	8272 Oct 09 19:21	23° ≏ 28'46	-5°34'44	retrograde	8273 Sep 07 12:23	8° ≏ 34'11	
minimum elong	8272 Oct 09 20:00	23° ₽ 27'46	5°34'40	evening set	8273 Sep 10 21:37	8° ഫ 08'59	
morning rise	8272 Oct 18 03:59	19° ≏ 29'25		min. Earth dist.	8273 Sep 18 18:22	4° ₽ 40'33	0.55038 AU
direct	8272 Oct 20 20:38	19° ₽ 10'25		inferior conj	8273 Sep 19 20:14	4° ₽ 03'55	-5°12'34
morning max el	8272 Oct 30 19:18	23° ≏ 51'43	19°47'32	minimum elong	8273 Sep 19 13:28	4° ₽ 13'31	5°11'33
asc. node	8272 Nov 04 07:36	29° ჲ 02'43		morning rise	8273 Sep 28 07:11	0° ₽ 15'56	
	8272 Nov 05 00:18	0°M		-	8273 Sep 29 16:59	30°₽, m p	
morning set	8272 Nov 17 12:56	22°M23'00		direct	8273 Oct 01 12:25	29° m 52'26	
	8272 Nov 21 06:52	0° ∡ ¹			8273 Oct 03 07:09	0∘ ত	
				morning max el	8273 Oct 13 00:34	5° ₽ 15'54	21°10'32
superior conj	8272 Nov 25 08:39	8° ∡ 11'52	1°29'02	asc. node	8273 Oct 22 04:35	16° ≙ 58'08	
minimum elong	8272 Nov 25 11:07	8° ≯ 24'04	1°28'58		8273 Oct 29 09:30	0° M.	
max. Earth dist.	8272 Dec 01 08:40	19° ∡ ¹46'11	1.37354 AU	morning set	8273 Nov 01 21:26	7° M 07'00	
evening rise	8272 Dec 05 02:32	26° ₹ 36'44	-	J	. *		
J	8272 Dec 07 00:32	0°る		superior conj	8273 Nov 09 05:02	22°M25'09	1°38'47
desc. node	8272 Dec 09 00:37	3° る 27'34		minimum elong	8273 Nov 09 06:11	22°M31'09	1°38'52
	8272 Dec 26 05:10	0° ≈			8273 Nov 12 22:26	0° ∡ 7	
evening max el	8273 Jan 09 17:22	17° ≈ 34'15	25°27'30	max. Earth dist.	8273 Nov 13 18:39	1° ∡ 740'32	1.35397 AU
-							

8274 Oct 09 01:34

8274 Oct 17 08:27

asc. node

morning set

5°**£**35'38

21° € 56'23

8275 Sep 25 22:33

8275 Sep 28 14:19

asc. node

24° m/44'35

0∘**ত**

morning set	8275 Oct 01 20:12	6° £ 45'37			8276 Jul 29 22:03	30° №	
morning sec	0273 000 01 20.12	0 - 13 37		direct	8276 Aug 03 14:32	29°906'56	
superior conj	8275 Oct 08 17:21	21° ≏ 44'29	1°37'37		8276 Aug 08 07:57	0°N	
minimum elong	8275 Oct 08 16:09	21° £ 37'52	1°37'37	morning max el	8276 Aug 17 21:18	6° Ω 31'37	26°11'48
max. Earth dist.	8275 Oct 10 13:49	25° ≏ 46′20	1.32619 AU		8276 Sep 04 04:28	0° m∕	
	8275 Oct 12 13:05	0°M		asc. node	8276 Sep 11 19:32	14° m) 16'45	
evening rise	8275 Oct 16 00:25	7°M14'31		morning set	8276 Sep 15 07:04	21° m)30'11	
3	8275 Oct 28 06:44	0° ⊼ ¹		. 8	8276 Sep 19 05:02	0∘ ⊽	
desc. node	8275 Oct 30 15:49	3° ∡ 752'57			r		
evening max el	8275 Nov 18 06:48	28° ₹ '01'08	27°29'15	superior conj	8276 Sep 22 04:30	6° £ 35'15	1°28'12
	8275 Nov 20 12:00	0°궁		minimum elong	8276 Sep 22 02:33	6° £ 24'31	1°28'00
retrograde	8275 Dec 02 00:15	5° る 19'24		max. Earth dist.	8276 Sep 22 21:30	8° ≏ 09'18	1.31906 AU
evening set	8275 Dec 09 01:45	2° 3 49'04		evening rise	8276 Sep 29 03:04	21° ≙ 38'39	
3	8275 Dec 12 10:29	30°R <i>≯</i> 7		<i>3</i>	8276 Oct 03 05:41	0°M₊	
min. Earth dist.	8275 Dec 12 18:58	29° х 39'46	0.63255 AU	desc. node	8276 Oct 16 12:55	23°ML07'30	
inferior conj	8275 Dec 15 12:01	26° ₹ 58'25			8276 Oct 21 09:02	0° ∡¹	
minimum elong	8275 Dec 15 16:37	26° х 46′57		evening max el	8276 Oct 30 14:11	10° х 34′26	27°13'43
morning rise	8275 Dec 22 09:26	21° х 43'49		retrograde	8276 Nov 13 10:59	17° ∡ ¹46'13	
asc. node	8275 Dec 22 22:03	21° х 33'24		evening set	8276 Nov 20 12:09	15° × ⁷ 32'04	
direct	8275 Dec 24 18:03	21° х 17'17		min. Earth dist.	8276 Nov 24 04:54	12° × ⁷ 46'25	0.61283 AU
morning max el	8275 Dec 31 08:32	24° х 41'44	17°47'58	inferior conj	8276 Nov 27 06:36	10°×104'54	
morning max cr	8276 Jan 04 17:00	0°중	17 47 50	minimum elong	8276 Nov 27 13:16	9° × ⁷ 50'16	
morning set	8276 Jan 16 14:53	0 3 19° る 38'46		morning rise	8276 Dec 04 16:38	5°×709'23	3 33 32
morning set	8276 Jan 22 14:50	0°≈		direct	8276 Dec 04 10:38 8276 Dec 06 21:58	4° ₹ 48'54	
desc. node	8276 Jan 26 15:02	0 ∞ 6°≈46'14		asc. node	8276 Dec 08 19:04	5° ₹ 04'06	
desc. node	82/0 Jan 20 13.02	0 ≈40 14					17054155
	02777 20 10 52	10021121	0015144	morning max el	8276 Dec 13 24:00	8° ₹ 22'49	17°54'55
superior conj	8276 Jan 28 18:52	10°≈21'31		. ,	8276 Dec 28 00:51	0°る	
minimum elong	8276 Jan 28 17:13	10°≈14'42	0°15'20	morning set	8276 Dec 29 16:16	2° る 59'36	
behind sun begin	8276 Jan 28 14:22	10°≈02'55			0000	210715106	000444
behind sun end	8276 Jan 28 20:04	10°≈26′28		superior conj	8277 Jan 09 03:26	21°₹45'06	0°24'42
max. Earth dist.	8276 Feb 04 00:44	20°≈30'06	1.44289 AU	minimum elong	8277 Jan 09 05:30	21°る54'06	0°24'33
	8276 Feb 10 01:18	0°) (desc. node	8277 Jan 12 12:01	27° පි 30'49	
evening rise	8276 Feb 13 02:40	4°) (43′52			8277 Jan 13 23:25	0° ≈	
	8276 Mar 01 01:40	$0^{\circ}\Upsilon$		max. Earth dist.	8277 Jan 16 14:52	4°≈23'25	1.42728 AU
evening max el	8276 Mar 13 10:45		20°52'21	evening rise	8277 Jan 22 22:05	14°≈32'04	
asc. node	8276 Mar 19 21:02	20° Y 24'14			8277 Feb 02 00:42	0° ∀	
retrograde	8276 Mar 21 19:56	20° Y 43'45		evening max el	8277 Feb 24 05:57	29° ∺ 29'08	22°07'03
evening set	8276 Mar 25 22:39	19° Ƴ 07'47			8277 Feb 24 18:21	0 ° $\mathbf{\gamma}$	
inferior conj	8276 Mar 31 06:02	12° Y 56'59	3°00'11	retrograde	8277 Mar 05 17:10	5° Y 05'41	
minimum elong	8276 Mar 31 04:10	13° Y 03′25	2°59'48	asc. node	8277 Mar 06 18:07	5° Ƴ 00'11	
min. Earth dist.	8276 Mar 31 17:39	12° Ƴ 16′53	0.68049 AU	evening set	8277 Mar 10 06:35	3° Ƴ 14'26	
morning rise	8276 Apr 05 09:28	6° Ƴ 42'02			8277 Mar 13 07:24	30° ₹ ₩	
direct	8276 Apr 10 19:02	4° Ƴ 18'30		inferior conj	8277 Mar 15 14:25	26°) 54′01	2°32'52
morning max el	8276 Apr 21 14:19	10° Ƴ 45'35	23°47'59	minimum elong	8277 Mar 15 12:11	27°) €01'48	2°32'19
desc. node	8276 Apr 23 14:47	12° Ƴ 53'47		min. Earth dist.	8277 Mar 15 13:28	26° ∺ 57'22	0.68405 AU
	8276 May 06 21:11	8° 0		morning rise	8277 Mar 20 17:38	20°) 43′15	
	8276 May 26 03:02	Π $^{\circ}0$		direct	8277 Mar 25 13:10	18°) 40′27	
morning set	8276 May 26 23:21	1° Ⅱ 26′24		morning max el	8277 Apr 04 01:22	24° ∺ 15'37	22°18'51
max. Earth dist.	8276 May 30 18:56	8° Ⅲ 04'12	1.38617 AU		8277 Apr 09 03:46	0 ° $\mathbf{\Upsilon}$	
				desc. node	8277 Apr 10 11:43	1° Ƴ 39'28	
superior conj	8276 Jun 07 04:33	21° Ⅱ 35'49	-1°17'54		8277 Apr 30 07:18	9° 8	
minimum elong	8276 Jun 07 09:20	21° Ⅱ 58′26	1°17'20	morning set	8277 May 07 13:03	11° 8 28'30	
	8276 Jun 11 13:47	0°ಅ		max. Earth dist.	8277 May 12 16:52	20° 8 00'48	1.40860 AU
asc. node	8276 Jun 15 20:02	8° © 19'25			8277 May 18 11:55	Π $^{\circ}$ 0	
evening rise	8276 Jun 16 06:55	9° © 12'40					
	8276 Jun 27 23:12	$0^{\circ}\Omega$		superior conj	8277 May 20 11:52	3° Ⅱ 32'49	-1°46'04
evening max el	8276 Jul 02 14:21	5° Ω 40′12	18°51'47	minimum elong	8277 May 20 17:42	3° Ⅱ 58'54	1°45'37
retrograde	8276 Jul 11 00:47	9° Ω 50'46		evening rise	8277 May 30 18:42	22° Ⅱ 29'52	
evening set	8276 Jul 13 00:22	9° Ω 37'49		asc. node	8277 Jun 02 17:04	27° Ⅱ 57'49	
desc. node	8276 Jul 20 14:07	5° Ω 43'41			8277 Jun 03 19:37	0ංම	
inferior conj	8276 Jul 21 03:45	5° Ω 19'23	-0°10'20	evening max el	8277 Jun 15 20:54	18°913'07	18°18'45
minimum elong	8276 Jul 21 03:19	5° Ω 20′09	0°10'19	retrograde	8277 Jun 23 03:35	21° © 52'08	
transit middle	8276 Jul 21 03:19	5° Ω 20'09	0°10'19	evening set	8277 Jun 25 10:12	21° © 31'33	
transit begin	8276 Jul 21 00:28	5° Ω 25'16		inferior conj	8277 Jul 02 17:51	16° © 52'28	1°21'20
transit end	8276 Jul 21 06:10	5° Ω 15'02		minimum elong	8277 Jul 02 20:23	16°9547'10	1°20'20
min. Earth dist.	8276 Jul 24 06:24	3° Ω 06'33	0.56777 AU	min. Earth dist.	8277 Jul 06 03:20	14°902'41	0.58805 AU
morning rise	8276 Jul 29 02:55	0° Ω 19'12	_	desc. node	8277 Jul 07 11:10	13°901'50	
2							

	0277 1 1 10 02 20	11061010		1.	0070 1 20 12 42	200 T 55150	
morning rise	8277 Jul 10 03:20	11°5018'38		direct	8278 Jun 28 13:43	20° Ⅱ 55'58	
direct	8277 Jul 16 08:10	9° © 35'35		morning max el	8278 Jul 12 20:19	28° ∏ 55′09	27°53'19
morning max el	8277 Jul 30 17:21	17° © 21'34	27°20'37		8278 Jul 13 21:48	0ಂಣ	
	8277 Aug 10 04:51	0 $^{\circ}$ Ω			8278 Aug 04 02:25	$0^{\circ}\Omega$	
	8277 Aug 27 16:39	0°Щ		morning set	8278 Aug 14 19:11	20° Ω 23'06	
asc. node	8277 Aug 29 16:29	4° ™ 04'51		asc. node	8278 Aug 16 13:28	24° Ω 03'45	
morning set	8277 Aug 30 15:20	6° Mp 04'19			8278 Aug 19 08:01	0° m/	
				max. Earth dist.	8278 Aug 20 16:45	2° m√58′21	1.31852 AU
superior conj	8277 Sep 06 16:16	21°Mp24'13	1°13'33				
minimum elong	8277 Sep 06 14:02	21°Mp11'45	1°13'10	superior conj	8278 Aug 22 02:58	6° Mp 06′20	0°54'05
max. Earth dist.	8277 Sep 06 07:46	20° M 37'01	1.31650 AU	minimum elong	8278 Aug 22 00:53	5° Mp 54′54	0°53'37
	8277 Sep 10 13:32	0∘ ⊽		evening rise	8278 Aug 28 21:23	20° M 56'07	
evening rise	8277 Sep 13 10:45	6° ≙ 14'30			8278 Sep 02 06:00	0∘ ত	
	8277 Sep 25 20:02	0° M		desc. node	8278 Sep 20 07:06	28° ≏ 57'18	
desc. node	8277 Oct 03 10:00	11° M 35'01			8278 Sep 21 04:57	0° M $_{\circ}$	
evening max el	8277 Oct 12 14:40	22°M18'55	26°24'10	evening max el	8278 Sep 24 06:56	3°M12'27	25°04'53
retrograde	8277 Oct 26 12:39	29°M24'37		retrograde	8278 Oct 08 03:52	10°M12'21	
evening set	8277 Nov 02 03:49	27°M36'57		evening set	8278 Oct 13 20:10	8°M59'07	
min. Earth dist.	8277 Nov 06 04:00	25°M02'24	0.59193 AU	min. Earth dist.	8278 Oct 18 18:26	6°M17′26	0.57206 AU
inferior conj	8277 Nov 09 08:41	22°M36'11	-4°39'42	inferior conj	8278 Oct 21 15:12	4°M23'23	-5°24'36
minimum elong	8277 Nov 09 15:52	22°M22'24	4°37'53	minimum elong	8278 Oct 21 19:30	4° ጤ 16'14	5°24'05
morning rise	8277 Nov 17 06:15	18°M02'56		morning rise	8278 Oct 29 21:07	0°M13'09	
direct	8277 Nov 19 12:08	17° M 45'19		Č	8278 Oct 31 02:54	30° ₽ Ω	
asc. node	8277 Nov 25 16:03	20°M06'25		direct	8278 Nov 01 08:17	29° £ 55'35	
morning max el	8277 Nov 27 10:01	21°M37'29	18°21'41		8278 Nov 02 13:16	0°M	
	8277 Dec 03 20:47	0° ∡ 7		morning max el	8278 Nov 10 11:01	4°M15'53	19°09'52
morning set	8277 Dec 13 07:07	16° ₹ 757'29		asc. node	8278 Nov 12 13:02	6°M28'10	
morning sec	8277 Dec 20 04:02	0°る		use. Houe	8278 Nov 26 15:01	0° ∡ 7	
	0277 BCC 20 01.02	ů U		morning set	8278 Nov 27 07:09	1° х 19′53	
superior conj	8277 Dec 22 11:01	4° ප 14'25	0°56'51	morning sec	02701101 27 07.09	1 7 17 33	
minimum elong	8277 Dec 22 14:24	4° ප 29'56	0°56'32	superior conj	8278 Dec 05 12:31	17° ∡ ³34'39	1°19'48
max. Earth dist.	8277 Dec 30 00:18	17° る 38'27	1.40740 AU	minimum elong	8278 Dec 05 15:34	17° 🖈 49'23	1°19'37
desc. node	8277 Dec 30 00:18 8277 Dec 30 09:01	17 3 3827	1.40/40 AC	max. Earth dist.	8278 Dec 03 15:54 8278 Dec 12 05:58	0°る09'34	1.38569 AU
evening rise	8277 Dec 30 03:01 8278 Jan 03 12:21	25° ප 12'04		max. Lartii dist.	8278 Dec 12 03:58 8278 Dec 12 03:51	0°る	1.56507 AC
evening rise	8278 Jan 06 11:13	23 3 12 04 0° ≈		evening rise	8278 Dec 12 03:31 8278 Dec 16 00:35	6° る 50'22	
	8278 Jan 26 19:51	0° ₩		desc. node	8278 Dec 10 00:33 8278 Dec 17 06:01	8° る 57'03	
evening max el	8278 Feb 06 21:13	13°) 12'34	23°26'51	desc. Hode	8278 Dec 17 00:01 8278 Dec 30 10:24	0°≈	
•	8278 Feb 17 11:44	13 X 1234 19° X 28'38	23 20 31	avanina may al	8279 Jan 20 10:28	0 ∞ 26°≈58'37	24°45'34
retrograde		19° ★ 28′38 18° ★ 04′34		evening max el		26°≈38'37 0° ∺	24-45-34
asc. node	8278 Feb 21 15:10				8279 Jan 23 18:55 8279 Feb 01 02:33	3° ∺ 47'01	
evening set	8278 Feb 22 12:59	17° ¥ 22'33 10° ¥ 55'53	1°56'41	retrograde		1° X 27'42	
inferior conj	8278 Feb 27 22:57		1°56'03	evening set	8279 Feb 06 16:18		
minimum elong	8278 Feb 27 20:47	11°) (30'19		1	8279 Feb 08 04:52	30°R≈	
min. Earth dist.	8278 Feb 27 10:09	11°) (39'47	0.68340 AU	asc. node	8279 Feb 08 12:14	29°≈40'04	0 (707(AII
morning rise	8278 Mar 05 04:33	4° ¥ 50′34		min. Earth dist.	8279 Feb 11 05:33	26°≈19'15	0.67876 AU
direct	8278 Mar 09 10:14	3° ¥ 10′18	2005(141	inferior conj	8279 Feb 12 05:46	24°≈59'00	1°12'09
morning max el	8278 Mar 17 18:09	7°) 57'06	20°56'41	minimum elong	8279 Feb 12 04:09	25°≈04'19	1°11'38
desc. node	8278 Mar 28 08:40	21°) (03'52		morning rise	8279 Feb 17 16:13	19°≈00'33	
	8278 Apr 03 14:34	0°Υ		direct	8279 Feb 21 09:00	17°≈42'02	10046144
morning set	8278 Apr 17 00:17	20° Y 19′24		morning max el	8279 Feb 28 18:36	21°≈50′26	19°46'44
	8278 Apr 23 02:40	0°8			8279 Mar 07 13:52	0°) (
max. Earth dist.	8278 Apr 24 21:14	2° 8 52'21	1.42874 AU	greatest brilliancy	8279 Mar 13 14:26	8°) (31′49	-0.6m
				desc. node	8279 Mar 15 05:35	10° ¥ 56′05	
superior conj	8278 May 01 21:14	14° 8 29'31		morning set	8279 Mar 26 21:45	28°) 38′08	
minimum elong	8278 May 02 01:29	14° 8 47'31	2°05'55		8279 Mar 27 18:59	0° Υ	
	8278 May 10 19:28	$\Pi^{\circ 0}$		max. Earth dist.	8279 Apr 07 08:17	16° Ƴ 30′28	1.44419 AU
evening rise	8278 May 13 15:56	5° Ⅱ 04'56					
asc. node	8278 May 20 14:07	17° Ⅱ 17'30		superior conj	8279 Apr 12 05:46	24° Y 21'03	
	8278 May 29 04:35	0 \circ \odot		minimum elong	8279 Apr 12 04:28	24° Y 15'47	2°11'36
evening max el	8278 May 30 08:34	1° © 13'54	18°05'36		8279 Apr 15 17:02	0°8	
retrograde	8278 Jun 05 23:16	4° © 37'13		evening rise	8279 Apr 25 17:52	16° 8 46'52	
evening set	8278 Jun 08 13:20	4° 5 06'03			8279 May 03 13:54	$\Pi^{\circ}0$	
	8278 Jun 14 05:56	30° Ŗ Ⅱ		asc. node	8279 May 07 11:09	6° Ⅱ 11'18	
inferior conj	8278 Jun 15 04:02	29° Ⅱ 06'53		evening max el	8279 May 13 21:55	14° Ⅲ 33′07	18°11'30
minimum elong	8278 Jun 15 07:02	28° Ⅱ 59'34	2°23'57	retrograde	8279 May 20 07:09	17° Ⅱ 55'17	
min. Earth dist.	8278 Jun 18 08:10	26° Ⅲ 03′05	0.61048 AU	evening set	8279 May 23 04:28	17° Ⅱ 11'31	
morning rise	8278 Jun 21 22:21	23° Ⅲ 09′12		inferior conj	8279 May 29 06:13	11° Ⅲ 53'52	
desc. node	8278 Jun 24 08:11	21° ∏ 49′52		minimum elong	8279 May 29 08:20	11° Ⅱ 48′02	3°02'33

min. Earth dist.	8279 May 31 22:09	8°∏59'07	0.63217 AU	morning rise	8280 May 17 13:50	18° 8 48'56	
morning rise	8279 Jun 04 10:44	5° ∏ 42'48	0.03217110	direct	8280 May 24 04:21	16° 8 02'39	
direct	8279 Jun 11 05:05	3° П 07'04		desc. node	8280 May 28 02:13	16° 8 52'17	
desc. node	8279 Jun 11 05:12	3° Ⅱ 07'04		morning max el	8280 Jun 06 14:21	23° 8 57'04	27°08'17
morning max el	8279 Jun 25 04:13	11° Ⅱ 10′04	27°47'53	C	8280 Jun 12 00:16	$\Pi^{\circ}0$	
C	8279 Jul 10 00:22	0 \circ \mathfrak{S}			8280 Jul 02 09:26	0°ಲ	
	8279 Jul 27 11:48	$0^{\circ}\Omega$		morning set	8280 Jul 12 04:11	17°5946'44	
morning set	8279 Jul 29 16:24	4° Ω 20′00		max. Earth dist.	8280 Jul 16 15:13	26° 5 38'06	1.33677 AU
asc. node	8279 Aug 03 10:27	14° Ω 08'38			8280 Jul 18 06:33	$0^{\circ}\Omega$	
max. Earth dist.	8279 Aug 03 20:26	15° Ω 01'37	1.32519 AU	asc. node	8280 Jul 20 07:26	4° Ω 15′00	
superior conj	8279 Aug 06 10:43	20° Ω 35'55	0°30'13	superior conj	8280 Jul 20 13:27	4° Ω 46'39	0°02'33
minimum elong	8279 Aug 06 09:20	20° Ω 28′28	0°29'50	minimum elong	8280 Jul 20 13:19	4° Ω 45'57	0°02'23
	8279 Aug 10 18:25	0° m y		behind sun begin	8280 Jul 20 07:46	4° Ω 16'44	
evening rise	8279 Aug 13 09:02	5° m 37'40		behind sun end	8280 Jul 20 18:52	5° Ω 15'13	
	8279 Aug 26 05:39	0∘ ত		evening rise	8280 Jul 27 19:50	20° Ω 13'07	
evening max el	8279 Sep 05 18:24	13° Ω 31'36	23°28'12		8280 Aug 01 14:41	0°Щ	
desc. node	8279 Sep 07 04:11	14° ≏ 49'36		evening max el	8280 Aug 17 09:06	23° Mp 48'27	21°50'32
retrograde	8279 Sep 19 07:04	20° £ 17'38		desc. node	8280 Aug 24 01:17	28° m/40'15	
evening set	8279 Sep 23 12:47	19° £ 38′23	0.55606.477		8280 Aug 28 21:19	0° ⊽	
min. Earth dist.	8279 Sep 30 04:14	16° £ 31'03		retrograde	8280 Aug 29 22:34	0° ≏ 02'35	
inferior conj	8279 Oct 02 01:48	15° £ 23'41			8280 Aug 31 00:04	30°R Mp	
minimum elong	8279 Oct 01 23:12	15° £ 27'33	5°31'5/	evening set	8280 Sep 01 17:59	29° Mp 44'54	4946113
morning rise direct	8279 Oct 10 11:44 8279 Oct 13 09:06	11° ≙ 30'56 11° ≙ 10'31		inferior conj	8280 Sep 10 21:36	25° m 45'11 25° m 57'33	-4°46°12 4°44'17
morning max el	8279 Oct 13 09:00 8279 Oct 23 23:58	16° £ 09'21	20°20'24	minimum elong min. Earth dist.	8280 Sep 10 12:46 8280 Sep 10 12:45	25° m 57'34	
asc. node	8279 Oct 23 23:38 8279 Oct 30 10:03	23° £ 54'10	20 20 24	morning rise	8280 Sep 10 12.43 8280 Sep 19 08:49	23 m/3/34 21°m/56'10	0.34773 AU
asc. Houe	8279 Oct 30 10.03 8279 Nov 03 05:37	23 = 34 10 0° M		direct	8280 Sep 19 08:49 8280 Sep 22 20:15	21° m/29'36	
morning set	8279 Nov 03 03:37 8279 Nov 11 13:17	15°M58'23		morning max el	8280 Scp 22 20:13 8280 Oct 04 23:57	27° mp 13'35	21°51'33
morning set	8279 Nov 18 08:58	0° ⊼		morning max er	8280 Oct 07 16:38	0° ⊡	21 3133
	02771101 10 00.30	0 x		asc. node	8280 Oct 16 07:03	0 — 12° ⊆ 09'18	
superior conj	8279 Nov 19 03:12	1° ∡ "32′29	1°34'05	morning set	8280 Oct 25 23:06	0°M45'26	
minimum elong	8279 Nov 19 05:08	1° × ⁷ 42'15	1°34'06	morning sec	8280 Oct 25 14:25	0°M	
max. Earth dist.	8279 Nov 24 12:42	12° х 10′35	1.36477 AU				
evening rise	8279 Nov 28 09:05	19° х 22'48		superior conj	8280 Nov 02 03:06	15° M 55'33	1°40'41
desc. node	8279 Dec 04 03:04	29° х 31′02		minimum elong	8280 Nov 02 03:42	15°M58'41	1°40'48
	8279 Dec 04 09:53	ರ°0		max. Earth dist.	8280 Nov 06 01:39	24°M03'49	1.34664 AU
	8279 Dec 24 12:58	0°≈			8280 Nov 09 01:14	0° ∡ ¹	
evening max el	8280 Jan 02 23:34	10°≈46′07	25°56'07	evening rise	8280 Nov 10 09:57	2° ҂ 38′28	
retrograde	8280 Jan 15 12:39	17° ≈ 55′25		desc. node	8280 Nov 20 00:07	19° ∡ 52′02	
evening set	8280 Jan 21 14:55	15° ≈ 25'46			8280 Nov 26 08:06	℃ 0	
min. Earth dist.	8280 Jan 25 21:25	10° ≈ 51'49	0.67036 AU	evening max el	8280 Dec 15 12:57	24° る 27'38	26°51'09
asc. node	8280 Jan 26 09:17	10° ≈ 14'51			8280 Dec 22 16:46	0° ≈	
inferior conj	8280 Jan 27 09:01	9° ≈ 00'14	0°19'42	retrograde	8280 Dec 28 17:03	1° ≈ 46'14	
minimum elong	8280 Jan 27 08:31	9° ≈ 01'51	0°19'37		8281 Jan 03 03:55	30°Rる	
morning rise	8280 Feb 02 02:41	3°≈10'31		evening set	8281 Jan 04 06:53	29° る 10'48	
direct	8280 Feb 05 08:01	2°≈11'08	10051155	min. Earth dist.	8281 Jan 08 07:25	25°る11'18	0.65833 AU
morning max el	8280 Feb 12 02:40		18°51'57	inferior conj	8281 Jan 10 06:36	22°₹54'17	
daga mada	8280 Feb 29 08:49 8280 Mar 01 02:33	0° ₩ 1° ₩ 08'52		minimum elong asc. node	8281 Jan 10 07:44 8281 Jan 12 06:22	22°る50'58 20°る39'44	0°39'29
desc. node	8280 Mar 01 02:33 8280 Mar 05 05:48	7° H 35'29			8281 Jan 12 06:22 8281 Jan 16 09:39	17° る 15'50	
morning set	8280 Mar 19 13:59	7 π33 29 0°Υ		morning rise direct	8281 Jan 19 05:21	17 31330 16° 3 32'06	
max. Earth dist.	8280 Mar 20 00:46	0° Υ 42'19	1.45325 AU	morning max el	8281 Jan 25 16:30	10 33200 19° 3 59'15	18°13'38
max. Earth dist.	8280 Mai 20 00.40	0 14219	1.43323 AU	morning max cr	8281 Feb 02 09:52	0°≈	18 13 38
superior conj	8280 Mar 21 17:26	3° Y 21′59	-1°57'35	morning set	8281 Feb 13 17:13	17°≈56'59	
minimum elong	8280 Mar 21 09:28	2° Υ 50'37		desc. node	8281 Feb 15 23:31	21°≈35'57	
evening rise	8280 Apr 05 20:47	27° Υ 30'14			8281 Feb 21 05:21	0° ∺	
5	8280 Apr 07 09:47	0°8					
asc. node	8280 Apr 23 08:13	24° 8 31'11		superior conj	8281 Feb 28 22:30	12°) 11′57	-1°24'44
evening max el	8280 Apr 26 10:06		18°35'38	minimum elong	8281 Feb 28 13:18	11°) (35'49	
Č	8280 Apr 28 15:30	0°Щ		max. Earth dist.	8281 Mar 02 20:20		1.45497 AU
retrograde	8280 May 02 23:00	1°Ⅱ38′09			8281 Mar 12 07:55	$0^{\circ}\mathbf{\Upsilon}$	
evening set	8280 May 06 03:41	0° Ⅱ 40′27		evening rise	8281 Mar 17 01:02	7° Y 20′55	
	8280 May 07 03:28	30° ₹ 8		greatest brilliancy	8281 Mar 28 16:16	25° Y 22'16	-0.7m
inferior conj	8280 May 11 20:21	25° 8 05'45	3°20'48		8281 Mar 31 18:30	9° 8	
minimum elong	8280 May 11 21:09	25° 8 03'21	3°20'37	evening max el	8281 Apr 09 18:46	11° 8 40'34	19°16'59
min. Earth dist.	8280 May 13 21:15	22° 8 38'19	0.65107 AU	asc. node	8281 Apr 10 05:18	12° 8 06'40	

ratra ara da	9291 Apr. 16 10:21	15° 8 39'00		rotro arado	9292 Mar 21 17:57	29° Y ′51'30	
retrograde	8281 Apr 16 19:31			retrograde	8282 Mar 31 17:57	29 1 31 30 28°\bar{\gamma}24'02	
evening set	8281 Apr 20 08:03	14° 8 26'37	202212.4	evening set	8282 Apr 04 15:12		2011120
inferior conj	8281 Apr 25 18:59	8° 8 36'15	3°22'34	inferior conj	8282 Apr 09 23:11	22°Υ19'52	
minimum elong	8281 Apr 25 18:30	8° 8 37'48	3°22'26	minimum elong	8282 Apr 09 21:43	22° Y °24'50	3°11'15
min. Earth dist.	8281 Apr 27 04:32	6° 8 47'25	0.66596 AU	min. Earth dist.	8282 Apr 10 18:23	21° Υ 14'35	0.67641 AU
morning rise	8281 May 01 04:35	2° 8 18'18		morning rise	8282 Apr 15 04:01	16° Y ′03′20	
	8281 May 04 21:03	30° ₹Ƴ		direct	8282 Apr 20 21:15	13° Y 30'18	
direct	8281 May 07 10:05	29° Ƴ 33'43		desc. node	8282 May 01 20:12	19° Ƴ 50′21	
	8281 May 10 02:37	$8^{\circ 0}$		morning max el	8282 May 02 09:50	20° Y 24'22	24°39'27
desc. node	8281 May 14 23:14	2° 8 37'10			8282 May 10 15:14	9° 8	
morning max el	8281 May 20 00:31	7° 8 05'08	26°02'20		8282 May 30 23:33	$\Pi^{\circ}0$	
	8281 Jun 06 19:05	$\Pi^{\circ}0$		morning set	8282 Jun 07 07:39	12° Ⅲ 27′06	
	8281 Jun 24 19:36	0ංම		max. Earth dist.	8282 Jun 10 22:38	18° Ⅱ 56'42	1.37341 AU
morning set	8281 Jun 25 02:53	0° © 33'35			8282 Jun 16 19:58	0° ©	
max. Earth dist.	8281 Jun 28 23:22	7° © 50'43	1.35313 AU				
				superior conj	8282 Jun 17 17:04	1°5642'03	-0°59'53
superior conj	8281 Jul 04 08:39	18°931'40	-0°28'02	minimum elong	8282 Jun 17 20:45	1°959'58	0°59'25
minimum elong	8281 Jul 04 10:17	18°939'59	0°27'51	asc. node	8282 Jun 24 01:28	14° © 16'41	0 57 25
asc. node	8281 Jul 07 04:28	24° © 19'15	0 27 31	evening rise	8282 Jun 26 06:15	18°\$40'52	
asc. Houe		24 3 1913		evening rise	8282 Jul 02 02:26	18 9 40 32	
	8281 Jul 09 22:13						10010155
evening rise	8281 Jul 12 03:44	4° Ω 36'45		evening max el	8282 Jul 13 01:21	16° Ω 04'45	19°19'55
	8281 Jul 26 11:35	0° m)		retrograde	8282 Jul 22 08:52	20° Ω 40'54	
evening max el	8281 Jul 30 10:39	4° m 34'51	20°25'31	evening set	8282 Jul 24 05:44	20° Ω 30'33	
retrograde	8281 Aug 10 10:49	10° m 01'19		desc. node	8282 Jul 28 19:27	18° Ω 49'14	
desc. node	8281 Aug 10 22:22	10° Mp 00'44		inferior conj	8282 Aug 01 20:08	16° Ω 22'02	
evening set	8281 Aug 12 10:54	9° m ,51'17		minimum elong	8282 Aug 01 16:50	16° Ω 27'28	1°12'53
inferior conj	8281 Aug 21 14:57	5° m 53'55	-3°10'35	min. Earth dist.	8282 Aug 04 11:19	14° Ω 38'40	0.55847 AU
minimum elong	8281 Aug 21 06:32	6° ™ 06'09	3°07'48	morning rise	8282 Aug 10 01:11	11° Ω 43'14	
min. Earth dist.	8281 Aug 22 22:27	5° m 08'09	0.54846 AU	direct	8282 Aug 15 00:52	10° Ω 46'38	
morning rise	8281 Aug 30 01:30	1° Mp 48'36		morning max el	8282 Aug 29 03:17	17° Ω 54'06	25°19'26
direct	8281 Sep 03 05:41	1° m)11'10		-	8282 Sep 08 03:50	0°mp	
morning max el	8281 Sep 16 14:42	7° m 40'01	23°35'55	asc. node	8282 Sep 20 01:02	20°m/21'31	
C	8281 Oct 02 14:37	0∘ ⊽		morning set	8282 Sep 24 22:15	0° ჲ 23'42	
asc. node	8281 Oct 03 04:04	1° ≏ 01'46		. 8	8282 Sep 24 17:48	0∘ ⊽	
morning set	8281 Oct 10 10:40	15° ≙ 35'38			0202 0 0 p 2 : 17.10	~ —	
morning sec	0201 000 10 10.10	13 —33 30		superior conj	8282 Oct 01 19:05	15° ≏ 23'44	1°34'17
superior conj	8281 Oct 17 09:12	0°MJ35'12	1°40'30	minimum elong	8282 Oct 01 17:31	15° ⊆ 15'07	
minimum elong	8281 Oct 17 09:12 8281 Oct 17 08:34	0°M31'48	1°40'34	max. Earth dist.	8282 Oct 01 17:31 8282 Oct 03 03:42	13 — 13 07 18° — 22'43	1.32262 AU
minimum clong	8281 Oct 17 08:34 8281 Oct 17 02:41	0°M	1 40 34		8282 Oct 03 03:42 8282 Oct 08 21:58	0°M40'50	1.32202 AU
Foodb died			1 22245 ATT	evening rise			
max. Earth dist.	8281 Oct 19 23:02	6°M06'23	1.33245 AU		8282 Oct 08 14:05	0°M	
evening rise	8281 Oct 24 23:22	16°M27'30		desc. node	8282 Oct 24 18:15	29°M29'00	
	8281 Nov 01 02:30	0° ∡			8282 Oct 25 02:13	0° √	
desc. node	8281 Nov 06 21:10	9° ∡ ′54′01		evening max el	8282 Nov 10 11:23	20° ₹ 47'24	27°26'39
	8281 Nov 20 21:18	0°₹		retrograde	8282 Nov 24 06:20	28° ₹ 03'11	
evening max el	8281 Nov 28 01:34	7° る 52'19	27°23'24	evening set	8282 Dec 01 08:52	25° ∡ ³38′05	
retrograde	8281 Dec 11 15:05	15° ⋜ 11'46		min. Earth dist.	8282 Dec 05 01:07	22° ∡ ¹40'22	0.62442 AU
evening set	8281 Dec 18 13:51	12° る 36'59		inferior conj	8282 Dec 07 22:27	19° ∡ 57′05	-2°55'53
min. Earth dist.	8281 Dec 22 09:14	9° る 10'41	0.64288 AU	minimum elong	8282 Dec 08 04:01	19° ∡ ¹43'56	2°53'40
inferior conj	8281 Dec 24 20:02	6° る 35'30	-1°46'09	morning rise	8282 Dec 15 01:17	14° ∡ 50′32	
minimum elong	8281 Dec 24 23:18	6° ප 26'50	1°44'38	direct	8282 Dec 17 08:08	14° ∡ ¹26'58	
asc. node	8281 Dec 30 03:27	1° る 51'19		asc. node	8282 Dec 17 00:31	14° ∡ ¹27'26	
morning rise	8281 Dec 31 10:22	1° る 11'21		morning max el	8282 Dec 24 02:30	17° ∡ 54′06	17°48'41
direct	8282 Jan 02 22:26	0° る 39'33			8283 Jan 01 19:18	0° ろ	
morning max el	8282 Jan 09 09:27	4°る02'02	17°52'19	morning set	8283 Jan 09 00:26	12° る 34'35	
morning set	8282 Jan 26 09:19	29° る 42'44		. 8	8283 Jan 18 23:52	0° ≈	
8	8282 Jan 26 13:24	0° ≈					
desc. node	8282 Feb 02 20:28	12°≈12'43		superior conj	8283 Jan 20 09:56	2° ≈ 24'12	0°02'19
acce. node	5252100 02 20.20	12 .4.12 73		minimum elong	8283 Jan 20 10:11	2°≈25'14	0°02'25
superior conj	8282 Feb 08 16:06	21° ≈ 42'22	-0°41'10	behind sun begin	8283 Jan 20 01:20	2 ≈23 14 1°≈47'54	0 02 23
		21°≈42′22 21°≈23′24		_			
minimum elong	8282 Feb 08 11:23			behind sun end	8283 Jan 20 19:02	3°≈02'29	
max. Earth dist.	8282 Feb 13 15:56	29°≈40'35	1.44925 AU	desc. node	8283 Jan 20 17:27	2°≈55'48	1 10 505 :
	8282 Feb 13 20:50	0° ∀		max. Earth dist.	8283 Jan 27 08:26	13°≈50'51	1.43682 AU
evening rise	8282 Feb 24 14:21	16°) 41′39		evening rise	8283 Feb 04 03:13	26°≈09'27	
	8282 Mar 05 08:27	$0^{\circ}\Upsilon$			8283 Feb 06 15:01	0° ∀	
greatest brilliancy	8282 Mar 11 06:02	8° Ƴ 45'16			8283 Feb 27 07:38	0° Υ	
evening max el	8282 Mar 23 22:18	25° Y 18'48	20°13'48	evening max el	8283 Mar 06 20:13	8° Y 58'06	21°23'08
asc. node	8282 Mar 28 02:24	28° Ƴ 44'07		asc. node	8283 Mar 14 23:29	14° Y 08'54	

	020234 15 16 15	1.40001.110.4			02041 20 20 25	001/	
retrograde	8283 Mar 15 16:15	14° Y 11′24			8284 Jan 30 20:25	0° ∀	
evening set	8283 Mar 19 23:20	12° Y 28'49	2010115	evening max el	8284 Feb 17 13:25	22°) (39'13	22°40'45
inferior conj	8283 Mar 25 06:39	6° Y 13′16	2°49'45	retrograde	8284 Feb 27 12:34	28°) (33'46	
minimum elong	8283 Mar 25 04:35	6° Y 20′29	2°49'18	asc. node	8284 Feb 29 20:34	28°) €06'22	
min. Earth dist.	8283 Mar 25 12:45	5° Y 52'06	0.68244 AU	evening set	8284 Mar 03 06:46	26°) 36′15	
morning rise	8283 Mar 30 09:39	29° ¥ 59'51		inferior conj	8284 Mar 08 15:19	20° ¥ 12'36	
	8283 Mar 30 09:35	30°Ŗ ℋ		minimum elong	8284 Mar 08 13:04	20° ∺ 20'27	
direct	8283 Apr 04 13:09	27°) 44'57		min. Earth dist.	8284 Mar 08 09:18	20°) 33′29	0.68422 AU
	8283 Apr 10 09:14	$0^{\circ}\mathbf{\Upsilon}$		morning rise	8284 Mar 13 19:13	14°) €03'42	
morning max el	8283 Apr 14 19:28	3° Y 50'43	23°09'47	direct	8284 Mar 18 08:44	12°) (10′22	
desc. node	8283 Apr 18 17:08	8° Ƴ 07'45		morning max el	8284 Mar 27 08:28	17°) €24'37	21°42'37
	8283 May 04 19:29	$8^{\circ 0}$		desc. node	8284 Apr 04 14:04	27° ∺ 11′08	
morning set	8283 May 19 13:01	23° 8 13'29			8284 Apr 06 16:24	0 ° Υ	
	8283 May 23 12:46	Π $^{\circ}0$			8284 Apr 26 21:49	0°B	
max. Earth dist.	8283 May 23 18:37	0° Ⅱ 25'18	1.39576 AU	morning set	8284 Apr 28 14:51	2° 8 42'50	
				max. Earth dist.	8284 May 04 18:13	12° 8 41'48	1.41753 AU
superior conj	8283 May 31 10:50	14° ∏ 08'38	-1°30'29				
minimum elong	8283 May 31 16:16	14° Ⅲ 33'42	1°29'57	superior conj	8284 May 12 09:19	25° 8 40'44	-1°55'53
	8283 Jun 08 19:47	0 \circ \odot		minimum elong	8284 May 12 14:54	26° 8 05'10	1°55'34
evening rise	8283 Jun 10 00:27	2° © 17'48			8284 May 14 20:11	$\Pi^{\circ}0$	
asc. node	8283 Jun 10 22:28	4° © 03'23		evening rise	8284 May 23 06:33	15° Ⅲ 17'47	
evening max el	8283 Jun 26 03:12	28° © 17'15	18°35'14	asc. node	8284 May 27 19:31	23° Ⅲ 34'24	
-	8283 Jun 28 02:35	$0^{\circ}\Omega$			8284 May 31 12:04	0°€	
retrograde	8283 Jul 04 00:39	2° Ω 12'43		evening max el	8284 Jun 08 12:26	11° © 03'32	18°10'54
evening set	8283 Jul 06 02:50	1° Ω 57'06		retrograde	8284 Jun 15 10:55	14° © 33'45	
Ü	8283 Jul 10 09:53	30°Rூ		evening set	8284 Jun 17 20:44	14° © 09'00	
inferior conj	8283 Jul 13 21:43	27° © 30'09	0°31'51	inferior conj	8284 Jun 24 20:46	9° 5 21'36	1°51'37
minimum elong	8283 Jul 13 22:53	27° © 27'54	0°31'16	minimum elong	8284 Jun 24 23:44	9° © 14'57	1°50'34
desc. node	8283 Jul 15 16:30	26°507'36	0 31 10	min. Earth dist.	8284 Jun 28 05:20	6°\$22'38	0.59748 AU
min. Earth dist.	8283 Jul 17 05:06	24°958'51	0.57590 AU	morning rise	8284 Jul 01 23:46	3° © 36'22	0.057, 10110
morning rise	8283 Jul 21 15:24	22°5014'16	0.57570710	desc. node	8284 Jul 01 13:31	3°952'08	
direct	8283 Jul 27 10:51	20°549'14		direct	8284 Jul 08 10:12	1°939'33	
morning max el	8283 Aug 10 19:45	28° © 24'57	26°44'59	morning max el	8284 Jul 22 18:41	9°932'37	27°39'09
morning max er	8283 Aug 12 09:25	0°Ω	20 44 37	morning max cr	8284 Aug 07 12:27	0°Ω	27 37 07
	8283 Sep 01 19:09	0° m		morning set	8284 Aug 23 14:52	29° Ω 33'22	
asc. node	8283 Sep 06 21:59	עוי 0 10°1001'06		asc. node	8284 Aug 23 14:56	29° Ω 54'41	
morning set	8283 Sep 09 08:12	15° Mp 04'32		asc. Houc	8284 Aug 23 19:57	0° m)	
morning set	8283 Sep 03 08.12	15 11/0432		max. Earth dist.	8284 Aug 29 22:51	13° Mg 14'33	1.31676 AU
superior conj	8283 Sep 16 06:43	0° £ 14'36	1°22'36	max. Latin dist.	0204 Aug 29 22.31	13 11/11 23	1.51070 AO
minimum elong	8283 Sep 16 04:36	0° ⊆ 1430		superior conj	8284 Aug 30 18:18	15° m 02'12	1°05'53
minimum ciong	8283 Sep 16 04:05	0° <u>₽</u>	1 22 19	minimum elong	8284 Aug 30 16:04	13 mg 02 12 14° mg 49'49	1°05'28
max. Earth dist.	8283 Sep 16 04:05 8283 Sep 16 12:45	0° ≗ 48'07	1.31738 AU	evening rise	8284 Sep 06 12:15	29° My 50'25	1 03 28
	1	0 = 4807 15° £ 10'36	1.51/36 AU	evening rise	•	0° ʊ	
evening rise	8283 Sep 23 03:01 8283 Sep 30 13:20	0°M			8284 Sep 06 14:02	0°M	
desc. node	8283 Oct 11 15:20	18°M25'32		desc. node	8284 Sep 22 21:28	6°M28'32	
desc. node					8284 Sep 27 12:25		25052120
	8283 Oct 20 16:55	0° ⊀ ⁷	26056140	evening max el	8284 Oct 04 13:06	14°M23'59	25°53'38
evening max el	8283 Oct 23 15:55	3°×700'20	26°56'40	retrograde	8284 Oct 18 11:27	21°M27'24	
retrograde	8283 Nov 06 13:44	10° ₹ 10′22		evening set	8284 Oct 24 18:16	19°M54'07	0.50210.411
evening set	8283 Nov 13 11:56	8° ₹ 06'02	0.60202.411	min. Earth dist.	8284 Oct 29 01:49		0.58319 AU
min. Earth dist.	8283 Nov 17 06:23	5° 🗷 27'04	0.60392 AU	inferior conj	8284 Nov 01 04:35	15°M04'07	
inferior conj	8283 Nov 20 10:26	2° √ 49'41		minimum elong	8284 Nov 01 11:04	14°M52'24	5°00'46
minimum elong	8283 Nov 20 17:36	2° × ⁷ 34'47	4°02'07	morning rise	8284 Nov 09 06:11	10°M40'30	
	8283 Nov 24 02:36	30°RM		direct	8284 Nov 11 13:34	10°M23'19	
morning rise	8283 Nov 28 01:40	28°M03'38		asc. node	8284 Nov 19 18:31	14°M16'23	
direct	8283 Nov 30 06:33	27°M44'54		morning max el	8284 Nov 19 22:50	14°M26'40	18°39'22
asc. node	8283 Dec 03 21:32	28°M38'07			8284 Nov 30 16:00	0° ∡	
	8283 Dec 06 01:09	0° ∡ 7		morning set	8284 Dec 06 03:25	10° ₹ 22'46	
morning max el	8283 Dec 07 16:10	1° ₹ 25'37	18°03'48				
morning set	8283 Dec 23 08:09	26° ₹ 12'44		superior conj	8284 Dec 14 20:46	27° ∡ 10′23	1°07'40
	8283 Dec 25 08:58	0°る		minimum elong	8284 Dec 15 00:09	27° ∡ ¹26′17	1°07'24
					8284 Dec 16 09:10	0°る	
superior conj	8284 Jan 02 04:53	14° る 17'30	0°39'27	max. Earth dist.	8284 Dec 22 03:22	10° る 22'19	1.39831 AU
minimum elong	8284 Jan 02 07:47	14° පි 30'21	0°39'11	desc. node	8284 Dec 24 11:25	14° る 24'46	
desc. node	8284 Jan 07 14:24	23° る 40'48		evening rise	8284 Dec 26 05:31	17° る 23'14	
max. Earth dist.	8284 Jan 09 19:59	27° る 26'42	1.41914 AU		8285 Jan 03 00:19	0° ≈	
	8284 Jan 11 08:54	0° ≈			8285 Jan 24 09:08	0°) €	
evening rise	8284 Jan 15 05:46	6°≈17'36		evening max el	8285 Jan 30 03:45	6°) 24'17	24°00'54

retrograde evening set asc. node	8285 Feb 10 05:36 8285 Feb 15 12:02 8285 Feb 15 17:39	12° ¥ 54'52 10° ¥ 43'11 10° ¥ 31'00		evening max el retrograde evening set	8286 Jan 12 16:58 8286 Jan 24 18:20 8286 Jan 30 13:35	20°≈11'59 27°≈09'51 24°≈45'44	25°16'58
min. Earth dist.	8285 Feb 20 05:46	5°) 14'49	0.68195 AU	asc. node	8286 Feb 02 14:43	21° ≈ 35'45	
inferior conj	8285 Feb 20 23:21	4° ¥ 15'13	1°38'48	min. Earth dist.	8286 Feb 03 23:54	19° ≈ 52'06	0.67572 AU
minimum elong	8285 Feb 20 21:22		1°38'11	inferior conj	8286 Feb 05 04:55	18° ≈ 18′00	0°50'52
	8285 Feb 24 08:26	30°R ≈		minimum elong	8286 Feb 05 03:43	18° ≈ 21'56	0°50'29
morning rise	8285 Feb 26 06:42	28° ≈ 12'27		morning rise	8286 Feb 10 18:10	12° ≈ 23'07	
direct	8285 Mar 02 06:51	26° ≈ 41'25		direct	8286 Feb 14 05:59	11° ≈ 12'59	
	8285 Mar 08 22:27	0° ∀		morning max el	8286 Feb 21 08:06	15°≈08'12	19°21'28
morning max el	8285 Mar 10 04:14	1° ¥ 10′17	20°25'05		8286 Mar 04 18:25	0° ∀	0.7
desc. node	8285 Mar 22 11:01	16°) 48′12		greatest brilliancy	8286 Mar 06 07:13	2°) 16'19	-0.7m
	8285 Mar 31 09:50	0°Υ		desc. node	8286 Mar 09 08:00	6° ¥ 50′02	
morning set	8285 Apr 07 17:34	11° Y 11'23 25° Y 54'06	1 42/02 ATT	morning set	8286 Mar 17 16:40	19° ¥ 38'40 0° Ƴ	
max. Earth dist.	8285 Apr 17 01:29	0° 8	1.43602 AU	max. Earth dist.	8286 Mar 24 08:58 8286 Mar 30 15:47	9° Υ 51'00	1.44894 AU
	8285 Apr 19 14:17	0.0		max. Earth dist.	8280 Mai 30 13.47	9 13100	1.44694 AU
superior conj	8285 Apr 23 08:12	6° 8 09'19	-2°10'30	superior conj	8286 Apr 03 06:49	15° Ƴ 35'58	-2°08'09
minimum elong	8285 Apr 23 10:33	6° 8 19'05		minimum elong	8286 Apr 03 02:25		2°08'02
evening rise	8285 May 05 20:04	27° 8 30'33	2 10 32	minimum crong	8286 Apr 12 04:41	0°8	2 00 02
7	8285 May 07 06:15	0°II		evening rise	8286 Apr 17 12:34	8° 8 48'04	
asc. node	8285 May 14 16:33	12° Ⅱ 43'31		8	8286 Apr 30 14:30	0°II	
evening max el	8285 May 23 01:16	24° Ⅱ 13'04	18°05'56	asc. node	8286 May 01 13:37	1° Ⅱ 23'55	
retrograde	8285 May 29 12:14	27° Ⅲ 33'50		evening max el	8286 May 06 14:26	7° Ⅱ 37'44	18°19'35
evening set	8285 Jun 01 05:32	26° Ⅱ 57'21		retrograde	8286 May 13 00:05	11° II 03'32	
inferior conj	8285 Jun 07 14:12	21° II 50'08	2°43'54	evening set	8286 May 16 00:34	10° Ⅱ 13'49	
minimum elong	8285 Jun 07 16:56	21° Ⅱ 43′06	2°43'08	inferior conj	8286 May 21 21:57	4° Ⅱ 48'25	3°12'48
min. Earth dist.	8285 Jun 10 13:44	18° Ⅱ 47'45	0.61992 AU	minimum elong	8286 May 21 23:32	4° Ⅱ 43'54	3°12'27
morning rise	8285 Jun 14 02:24	15° Ⅱ 46′00		min. Earth dist.	8286 May 24 07:31	2° Ⅱ 03'49	0.64061 AU
desc. node	8285 Jun 18 10:34	13° Ⅱ 39'50			8286 May 26 06:50	30° ₹ 8	
direct	8285 Jun 20 20:08	13° Ⅲ 21′58		morning rise	8286 May 27 21:24	28° 8 34'13	
morning max el	8285 Jul 04 23:48	21° Ⅲ 23′17	27°55'38	direct	8286 Jun 03 14:45	25° 8 52'50	
	8285 Jul 12 11:24	0°€		desc. node	8286 Jun 05 07:36	26° 8 02'11	
	8285 Jul 31 14:34	0 $^{\circ}\Omega$			8286 Jun 13 01:44	Π $^{\circ}0$	
morning set	8285 Aug 07 16:10	13° Ω 43'22		morning max el	8286 Jun 17 09:05	3° Ⅱ 53'15	27°34'59
asc. node	8285 Aug 10 15:54	19° Ω 56'24	1.00000 1.11		8286 Jul 06 23:50	0°©	
max. Earth dist.	8285 Aug 13 06:06	25° Ω 29'38	1.32078 AU	morning set	8286 Jul 22 09:45	27° © 27'58	
	9295 A 15 02.50	29° Ω 39'39	0944120	Fauth diet	8286 Jul 23 16:16 8286 Jul 27 06:37	0°Ω 7°Ω22140	1 22054 ATT
superior conj minimum elong	8285 Aug 15 03:59 8285 Aug 15 02:08	$29^{\circ} \Omega 29'32$		max. Earth dist. asc. node	8286 Jul 27 06:37 8286 Jul 28 12:54	10° Ω 02'00	1.32954 AU
minimum ciong	8285 Aug 15 02:08 8285 Aug 15 07:42	0° m)	0 44 03	asc. Houe	6260 Jul 26 12.34	10 860200	
evening rise	8285 Aug 21 23:33	14° m) 32'52		superior conj	8286 Jul 30 09:51	14° Ω 01'20	0°18'55
evening rise	8285 Aug 29 15:20	0∘ ⊽		minimum elong	8286 Jul 30 08:56	13°Ω56'26	0°18'36
desc. node	8285 Sep 14 09:31	ა — 23° ჲ 16'07		evening rise	8286 Aug 06 11:05	29° Ω 12'13	0 10 30
evening max el	8285 Sep 16 02:49	25° ₽ 00'30	24°25'02	8	8286 Aug 06 20:05	0° m/y	
C	8285 Sep 22 18:15	0° M			8286 Aug 23 23:15	0∘ <u>⊽</u>	
retrograde	8285 Sep 29 21:14	1°ML55'08		evening max el	8286 Aug 28 14:21	5° ≙ 13'00	22°45'47
evening set	8285 Oct 04 23:59	0°ML57'13		desc. node	8286 Sep 01 06:36	8° £ 20′20	
	8285 Oct 07 04:59	30° ₹ Ω		retrograde	8286 Sep 10 18:52	11° ≏ 48′08	
min. Earth dist.	8285 Oct 10 13:44	28° ≏ 06'46	0.56474 AU	evening set	8286 Sep 14 09:18	11° ≏ 19'41	
inferior conj	8285 Oct 13 02:29	26° ≏ 31'26	-5°33'30	min. Earth dist.	8286 Sep 21 22:11	7° £ 57'10	0.55163 AU
minimum elong	8285 Oct 13 04:12	26° ≏ 28'43	5°33'23	inferior conj	8286 Sep 23 05:37	7° ≙ 12'16	-5°19'36
morning rise	8285 Oct 21 10:33	22° ≏ 29'27		minimum elong	8286 Sep 22 23:50	7° £ 20'33	5°18'51
direct	8285 Oct 24 01:43	22° ≙ 10'52		morning rise	8286 Oct 01 16:23	3° £ 23'44	
morning max el	8285 Nov 02 18:53	26° ≏ 46'14	19°37'02	direct	8286 Oct 04 19:27	3° ₾ 01'10	
,	8285 Nov 05 18:15	0°M		morning max el	8286 Oct 16 02:10	8° £ 17'57	20°56'57
asc. node	8285 Nov 06 15:31	1°M07'01		asc. node	8286 Oct 24 12:32	18° ♀ 55'04	
morning set	8285 Nov 20 06:25 8285 Nov 22 19:09	24°M.53'05 0° <i>₹</i> 7		morning set	8286 Oct 30 19:42 8286 Nov 04 14:22	0°ጤ 9°ጤ35'48	
	8283 NOV 22 19.09	0 x .		morning set	8280 NOV 04 14.22	9 11633 48	
superior conj	8285 Nov 28 04:25	10° ∡ ¹47'54	1°26'51	superior conj	8286 Nov 11 23:26	24°ML57'31	1°37'46
minimum elong	8285 Nov 28 04:23 8285 Nov 28 07:03	11° х 4754	1°26'46	minimum elong	8286 Nov 12 00:48	25°ML04'33	1°37'50
max. Earth dist.	8285 Dec 04 09:18	22° × ⁷ 40'02	1.37667 AU	minimum clong	8286 Nov 14 10:53	25 11 c 04 55 0° √ 1	1 3 / 30
evening rise	8285 Dec 08 02:48	29° х 25'28		max. Earth dist.	8286 Nov 16 18:17	4° × ⁷ 35'19	1.35665 AU
6	8285 Dec 08 10:36	0°る		evening rise	8286 Nov 20 18:41	12° ∡ 16′53	
desc. node	8285 Dec 11 08:27	5°る03'24		desc. node	8286 Nov 28 05:29	25° х 32′10	
	8285 Dec 27 08:02	0° ≈			8286 Nov 30 21:56	ರ°0	

	8286 Dec 22 11:11	0° ≈		minimum elong	8287 Oct 27 02:23	9°M29'27	1°41'30
evening max el	8286 Dec 26 06:05	3° ≈ 57'16	26°21'46	max. Earth dist.	8287 Oct 30 10:33	16°M30'26	1.34000 AU
retrograde	8287 Jan 08 02:05	11° ≈ 11'50		evening rise	8287 Nov 04 01:20	25°M48'13	
evening set	8287 Jan 14 09:39	8° ≈ 38'44			8287 Nov 06 05:38	0° ∡ ¹	
min. Earth dist.	8287 Jan 18 13:25	4° ≈ 19'50	0.66571 AU	desc. node	8287 Nov 15 02:31	15° ⊀ ¹46′02	
inferior conj	8287 Jan 20 06:02	2° ≈ 16′23	-0°04'50		8287 Nov 24 07:50	o°ප	
minimum elong	8287 Jan 20 06:09	2° ≈ 16′01	0°04'39	evening max el	8287 Dec 08 19:08	17° る 32'54	27°08'00
transit middle	8287 Jan 20 06:09	2° ≈ 16′01	0°04'39	retrograde	8287 Dec 22 04:06	24° る 53'37	
transit begin	8287 Jan 20 03:24	2° ≈ 24'26		evening set	8287 Dec 28 22:09	22° る 17'15	
transit end	8287 Jan 20 08:55	2° ≈ 07'37		min. Earth dist.	8288 Jan 01 20:14	18° る 32'15	0.65215 AU
asc. node	8287 Jan 20 11:49	1° ≈ 58'48		inferior conj	8288 Jan 04 00:29	16° පි 06'08	-1°07'28
	8287 Jan 22 04:15	30°Ŗる		minimum elong	8288 Jan 04 02:29		1°06'27
morning rise	8287 Jan 26 03:28	26° る 31'28		asc. node	8288 Jan 07 08:53	12° る 37'44	
direct	8287 Jan 29 04:28	25° る 39'16		morning rise	8288 Jan 10 08:10	10° る 33'31	
morning max el	8287 Feb 04 19:00	29° る 13'27	18°33'38	direct	8288 Jan 13 00:13	9° る 55'30	
	8287 Feb 05 13:10	0° ≈		morning max el	8288 Jan 19 10:36	13° る 19'43	18°02'25
desc. node	8287 Feb 24 04:57	27° ≈ 09'15			8288 Jan 31 07:03	0° ≈	
morning set	8287 Feb 25 11:18	29° ≈ 09'09		morning set	8288 Feb 06 11:23	10° ≈ 08′06	
	8287 Feb 26 00:10	0° ∀		desc. node	8288 Feb 11 01:55	17° ≈ 41'00	
					8288 Feb 18 17:22	0° ∀	
superior conj	8287 Mar 13 13:20	24° ∺ 25'32					
minimum elong	8287 Mar 13 03:55	23°) (48'41		superior conj	8288 Feb 20 21:42	3°) €27'47	
max. Earth dist.	8287 Mar 13 10:07		1.45488 AU	minimum elong	8288 Feb 20 14:01		1°05'55
	8287 Mar 17 02:43	0°Υ		max. Earth dist.	8288 Feb 24 05:32	8°) (42'23	1.45343 AU
evening rise	8287 Mar 29 05:30	19° Y 07'32		evening rise	8288 Mar 08 01:57	28°) (41'18	
	8287 Apr 05 01:40	0°8			8288 Mar 08 22:20	0°Υ	
greatest brilliancy	8287 Apr 06 22:12	2° 8 55'35	-0.8m	greatest brilliancy	8288 Mar 21 14:21	19° Ƴ 18'48	-0.7m
asc. node	8287 Apr 18 10:43	19° 8 26'07	10051100		8288 Mar 29 04:51	0°8	10020122
evening max el	8287 Apr 20 01:17	21° 8 10'49	18°51'08	evening max el	8288 Apr 02 07:51	_	19°39'22
retrograde	8287 Apr 26 18:25	24° 8 54'23		asc. node	8288 Apr 04 07:48	6° 8 38'29	
evening set	8287 Apr 30 02:16	23° 8 50'35	2022117	retrograde	8288 Apr 09 16:02	9° 8 00'21 7° 8 41'47	
inferior conj	8287 May 05 16:06	18° 8 08'48	3°23'16 3°23'08	evening set	8288 Apr 13 08:03	1° 8 45'23	3°19'15
minimum elong	8287 May 05 16:20	15° 8 56'48	0.65791 AU	inferior conj	8288 Apr 18 17:26		3°19'06
min. Earth dist.	8287 May 07 10:23 8287 May 11 05:49	13 8 50'47	0.03/91 AU	minimum elong min. Earth dist.	8288 Apr 18 16:30 8288 Apr 19 20:50	0° 8 14'27	0.67100 AU
morning rise direct	8287 May 17 16:51	9° 8 03'58		iiiii. Eartii tiist.	8288 Apr 20 01:14	0 O1427 30°RΥ	0.07100 AU
desc. node	8287 May 23 04:37	10° 8 41'38		morning rise	8288 Apr 24 00:37	25° Υ 27'33	
morning max el	8287 May 30 19:41	16° 8 51'04	26°42'56	direct	8288 Apr 30 01:11	22°\dagger46'35	
morning max ci	8287 Jun 10 17:45	0° Ⅱ	20 42 30	desc. node	8288 May 09 01:37	27° Υ '07'04	
	8287 Jun 29 21:07	0 . ಹ		morning max el	8288 May 12 05:27	0° 8 04'29	25°28'22
morning set	8287 Jul 05 16:27	10°538'37		morning max er	8288 May 12 03:41	0°8	23 20 22
max. Earth dist.	8287 Jul 09 21:00	18° © 47'47	1.34313 AU		8288 Jun 03 15:25	0°II	
man. Darun dist.	020, 041 0, 21.00	10 0 17 17	1.0 10 10 110	morning set	8288 Jun 17 08:09	23° I 04'09	
superior conj	8287 Jul 14 09:40	28° © 01'07	-0°10'11	max. Earth dist.	8288 Jun 21 00:24	29° ∏ 51'48	1.36132 AU
minimum elong	8287 Jul 14 10:14	28°904'04			8288 Jun 21 02:08	0°ಅ	
behind sun begin	8287 Jul 14 05:44	27°5940'43					
behind sun end	8287 Jul 14 14:44	28°527'26		superior conj	8288 Jun 27 00:40	11° © 31'59	-0°41'32
asc. node	8287 Jul 15 09:55	0° Ω 07'26		minimum elong	8288 Jun 27 03:10	11°9544'26	0°41'13
	8287 Jul 15 08:29	$0^{\circ}\Omega$		asc. node	8288 Jul 01 06:55	20° © 08'48	
evening rise	8287 Jul 21 20:52	13° Ω 42'39		evening rise	8288 Jul 05 02:46	27° 5 58'06	
	8287 Jul 30 04:20	0° m			8288 Jul 06 02:49	$0^{\circ}\Omega$	
evening max el	8287 Aug 10 08:49	15° ™ 38'19	21°12'18	evening max el	8288 Jul 22 16:03	26° Ω 42′26	19°55'08
desc. node	8287 Aug 19 03:40	21°Mp09'26			8288 Jul 26 20:06	0° m ∕	
retrograde	8287 Aug 22 08:06	21°M/34'16		retrograde	8288 Aug 01 22:46	1° m 46'38	
evening set	8287 Aug 24 16:45	21° m 21'17		evening set	8288 Aug 03 19:44	1° ™ 37'17	
inferior conj	8287 Sep 02 22:32	17° m 24'06	-4°10'29	desc. node	8288 Aug 05 00:45	1° ™ 21'47	
minimum elong	8287 Sep 02 12:59	17° m 37'33	4°07'53		8288 Aug 08 14:01	30° R Ω	
min. Earth dist.	8287 Sep 03 07:05	17° m 12'04	0.54675 AU	inferior conj	8288 Aug 12 19:19	27° Ω 37'02	-2°21'36
morning rise	8287 Sep 11 09:48	13° m 30'37		minimum elong	8288 Aug 12 12:51	27° Ω 46′52	
direct	8287 Sep 15 03:41	13° Mp 00'25		min. Earth dist.	8288 Aug 14 18:13		0.55158 AU
morning max el	8287 Sep 27 21:41	19° ™ 04'22	22°35'08	morning rise	8288 Aug 21 04:11	23° Ω 18'36	
	8287 Oct 06 20:10	0∘ ⊽		direct	8288 Aug 25 16:31	22° Ω 33'56	
asc. node	8287 Oct 11 09:33	7° ≏ 27'15		morning max el	8288 Sep 08 10:30	29° Ω 21'12	24°21'09
morning set	8287 Oct 20 01:09	24° £ 25′00			8288 Sep 09 02:38	0° ™	
	8287 Oct 22 16:05	0°M₊		asc. node	8288 Sep 27 06:31	26°My31'51	
					8288 Sep 29 01:20	0∘ ত	
superior conj	8287 Oct 27 02:20	9°M29'10	1°41'24	morning set	8288 Oct 03 12:53	9° ≙ 14'17	

	0200 0 4 10 10 17	240 0 12107	1020124		0200 0 24 21 07	00.00055	1020150
superior conj	8288 Oct 10 10:17	24° £ 13'07		superior conj	8289 Sep 24 21:07	9° ₽ 02'55	1°29'58
minimum elong	8288 Oct 10 09:13	24° £ 07'18	1°38'35	minimum elong	8289 Sep 24 19:16	8° ≏ 52'40	1°29'48
max. Earth dist.	8288 Oct 12 11:05	28° ≏ 37'36	1.32764 AU	max. Earth dist.	8289 Sep 25 18:07	10° ≏ 58'52	1.31986 AU
	8288 Oct 13 02:25	0°M₊		evening rise	8289 Oct 01 20:41	24° ≏ 09'33	
evening rise	8288 Oct 17 19:01	9° ™ 48'29			8289 Oct 04 17:10	0° M ₊	
	8288 Oct 28 14:08	0° ∡ 7		desc. node	8289 Oct 18 20:37	24°M57'06	
desc. node	8288 Oct 31 23:34	5° ∡ ³37′22			8289 Oct 22 07:24	0° ∡ 7	
	8288 Nov 19 11:33	8°0		evening max el	8289 Nov 02 15:03	13° ∡ ¹25'42	27°18'09
evening max el	8288 Nov 20 06:55	0° る 46'49	27°28'46	retrograde	8289 Nov 16 11:18	20° ∡ ³38'13	
retrograde	8288 Dec 03 23:32	8° ප 05'24		evening set	8289 Nov 23 13:09	18° ∡ ′20'55	
evening set	8288 Dec 11 00:27	5° る 33'46		min. Earth dist.	8289 Nov 27 05:36	15° ∡ ³32'31	0.61589 AU
min. Earth dist.	8288 Dec 14 18:11	2° る 20'07	0.63533 AU	inferior conj	8289 Nov 30 06:18	12° ∡ 50′11	-3°25'30
inferior conj	8288 Dec 17 09:37	29° х 40′03		minimum elong	8289 Nov 30 12:42	12° ∡ ³35'50	3°23'10
minimum elong	8288 Dec 17 13:52	29° × 10°03		morning rise	8289 Dec 07 14:29	7° ∡ ′51'39	2 23 10
minimum ciong	8288 Dec 17 01:46	30°R. ₹	2 13 37	direct	8289 Dec 09 20:08	7° ₹ 31'35'	
morning rise	8288 Dec 24 05:10	24° ₹ 22'45		asc. node	8289 Dec 11 02:59	7° ₹ 30 20	
•		24° 🖈 22'00				11° x '3/41	17°52'42
asc. node	8288 Dec 24 05:57			morning max el	8289 Dec 16 19:52		17 32 42
direct	8288 Dec 26 14:36	23° 🖈 54'56	1.50.4010.0		8289 Dec 29 10:05	0°る	
morning max el	8289 Jan 02 03:56	27° ∡ 18'39	17°48'28	morning set	8290 Jan 01 13:01	5° る 38'09	
	8289 Jan 04 13:25	0°ಕ				_	
morning set	8289 Jan 18 14:08	22° る 24'33		superior conj	8290 Jan 12 05:39	24° る 39'14	0°19'04
	8289 Jan 23 00:10	0° ≈		minimum elong	8290 Jan 12 07:20	24° る 46'26	0°18'58
desc. node	8289 Jan 27 22:51	8° ≈ 20'35		desc. node	8290 Jan 14 19:48	29° る 04'31	
					8290 Jan 15 08:56	0° ≈	
superior conj	8289 Jan 31 00:53	13° ≈ 26′36	-0°22'21	max. Earth dist.	8290 Jan 19 14:47	7° ≈ 02'52	1.42991 AU
minimum elong	8289 Jan 30 22:28	13° ≈ 16'42	0°21'52	evening rise	8290 Jan 26 06:23	17° ≈ 42'01	
max. Earth dist.	8289 Feb 05 23:46	23°≈03'59	1.44479 AU	C	8290 Feb 03 06:50	0° ₩	
	8289 Feb 10 09:10	0°) €			8290 Feb 25 05:08	0° Υ	
evening rise	8289 Feb 15 13:05	8° ₩ 00'12		evening max el	8290 Feb 27 04:54	2°Υ07'23	21°55'28
e vennig rise	8289 Mar 02 05:15	0°Υ		retrograde	8290 Mar 08 12:03	7° Υ 37'49	21 33 20
avanina may al	8289 Mar 16 09:04	18° Y 27'12	20°42'02	asc. node	8290 Mar 09 01:57	7° Υ 36'06	
evening max el		22°Υ46'55	20 42 02			5° Υ 48'41	
asc. node	8289 Mar 22 04:52			evening set	8290 Mar 12 23:50		
retrograde	8289 Mar 24 14:32	23° Y 16'20			8290 Mar 17 22:42	30° ₹ ₩	2027120
evening set	8289 Mar 28 15:49	21° Y 42'33		inferior conj	8290 Mar 18 07:29	29°) €29'25	2°37'38
inferior conj	8289 Apr 02 23:18	15° Ƴ 33'30	3°03'28	minimum elong	8290 Mar 18 05:17	29°) 37′06	2°37'05
minimum elong	8289 Apr 02 21:32	15° Ƴ 39'34	3°03'08	min. Earth dist.	8290 Mar 18 08:18	29° ∺ 26'37	0.68378 AU
min. Earth dist.	8289 Apr 03 12:52	14° Ƴ 46'50	0.67958 AU	morning rise	8290 Mar 23 10:34	23°) 18′01	
morning rise	8289 Apr 08 03:01	9° Ƴ 18'09		direct	8290 Mar 28 08:11	21° 升 12′04	
direct	8289 Apr 13 14:38	6° Ƴ 51'57		morning max el	8290 Apr 07 01:00	26° ¥ 54'58	22°31'54
morning max el	8289 Apr 24 14:24	13° Y 26′04	24°01'26		8290 Apr 09 21:42	$0^{\circ}\mathbf{\Upsilon}$	
desc. node	8289 Apr 25 22:35	14° Y 50'01		desc. node	8290 Apr 12 19:32	3° Y 28'36	
	8289 May 07 23:52	0°8			8290 May 01 13:59	0° ႘	
	8289 May 27 11:55	0°П		morning set	8290 May 10 21:28	14° 8 44'15	
morning set	8289 May 30 03:39	4° ∏ 30'51		max. Earth dist.	8290 May 15 18:37	22° 8 52'14	1.40533 AU
max. Earth dist.	8289 Jun 02 21:12		1.38283 AU	max. Earth dist.	8290 May 19 21:49	0°П	1.40333710
max. Earth dist.	8289 Juli 02 21.12	11 110237	1.36263 AU		6290 May 19 21.49	υд	
	0200 I 10 02.26	240 11 25120	1012114		9200 M 22 12-25	€0 ∏ 20100	1942112
superior conj	8289 Jun 10 03:26	24° II 25'30		superior conj	8290 May 23 13:35	6° П 30'08 6° П 56'17	
minimum elong	8289 Jun 10 07:58	24° ∏ 47'01	1-12-42	minimum elong	8290 May 23 19:22		1-41-42
	8289 Jun 13 01:04	0.20		evening rise	8290 Jun 02 15:43	25° Ⅱ 14'13	
asc. node	8289 Jun 18 03:55	10°502'18		asc. node	8290 Jun 05 00:55	29° ∏ 42'49	
evening rise	8289 Jun 19 02:10	11° © 51'48			8290 Jun 05 04:36	0 \circ	
	8289 Jun 28 23:27	$0 { m ^o} \Omega$		evening max el	8290 Jun 18 17:27	20° © 59'25	18°22'23
evening max el	8289 Jul 05 12:02	8° Ω 31′50	18°58'23	retrograde	8290 Jun 26 03:38	24° © 42'19	
retrograde	8289 Jul 14 03:31	12° Ω 48'32		evening set	8290 Jun 28 09:03	24° 5 23'08	
evening set	8289 Jul 16 02:18	12° Ω 36′21		inferior conj	8290 Jul 05 19:32	19° 5 47'06	1°09'13
desc. node	8289 Jul 22 21:50	9° Ω 20′28		minimum elong	8290 Jul 05 21:47	19° 5 42'28	1°08'17
inferior conj	8289 Jul 24 08:37	8° Ω 20′34	-0°26'30	min. Earth dist.	8290 Jul 09 04:49	17° 5 01'28	0.58481 AU
minimum elong	8289 Jul 24 07:30	8° Ω 22'32	0°26'11	desc. node	8290 Jul 09 18:54	16° © 34'30	
min. Earth dist.	8289 Jul 27 08:48	6° Ω 15'03	0.56519 AU	morning rise	8290 Jul 13 07:12	14° © 17'33	
morning rise	8289 Aug 01 09:30	3° Ω 26'01		direct	8290 Jul 19 09:43	12° © 39'19	
direct	8289 Aug 06 18:09	2° Ω 18'05		morning max el	8290 Aug 02 19:05	20°\$22'50	27012120
	•		25050150	morning max ci	•		4/ 14 JU
morning max el	8289 Aug 20 23:57	9° Ω 38'19	23 3638		8290 Aug 11 01:44	0° N	
	8289 Sep 05 09:53	0°M)			8290 Aug 29 03:58	0° Mp	
asc. node	8289 Sep 14 03:29	16° Mp 00'43		asc. node	8290 Sep 01 00:25	5° Mp 46'33	
morning set	8289 Sep 17 23:57	23° m 59'25		morning set	8290 Sep 02 08:43	8° m 35'19	
	8289 Sep 20 18:42	0∘ ⊽					
				superior conj	8290 Sep 09 08:55	23° m 52'19	1°16'05

minimum elong	8290 Sep 09 06:42	23° m 39'56	1°15'45	max. Earth dist.	8291 Aug 23 13:35	5° Mp 48'54	1.31788 AU
max. Earth dist.	8290 Sep 09 04:14	23° m/26'15	1.31659 AU		S	•	
	8290 Sep 12 03:17	0∘ ⊽		superior conj	8291 Aug 24 19:55	8° m/35'52	0°57'20
evening rise	8290 Sep 16 03:45	8° ≏ 43'46		minimum elong	8291 Aug 24 17:47	8° m 24'05	0°56'54
	8290 Sep 27 02:29	0° M		evening rise	8291 Aug 31 14:05	23° m 24'51	
desc. node	8290 Oct 05 17:43	13°M32'37			8291 Sep 03 17:24	0∘ ⊽	
evening max el	8290 Oct 15 16:36	25°M17'21	26°33'36		8291 Sep 21 17:14	0° M	
	8290 Oct 21 18:32	0°⊀		desc. node	8291 Sep 22 14:49	1°M06'19	
retrograde	8290 Oct 29 14:30	2° ≯ 24'16		evening max el	8291 Sep 27 10:03	6° ™ 18'07	25°18'14
evening set	8290 Nov 05 07:58	0° ∡ 31'53		retrograde	8291 Oct 11 07:40	13° M ₁9'23	
	8290 Nov 06 06:12	30°RM		evening set	8291 Oct 17 04:05	12°M00'51	
min. Earth dist.	8290 Nov 09 06:11	27°M56'50	0.59500 AU	min. Earth dist.	8291 Oct 21 21:52	9°M21'21	0.57479 AU
inferior conj	8290 Nov 12 11:04	25°M27'07		inferior conj	8291 Oct 24 20:40	7°M21'27	
minimum elong	8290 Nov 12 18:21	25°M12'52	4°28'58	minimum elong	8291 Oct 25 01:41		5°19'06
morning rise	8290 Nov 20 07:06	20°M50'39		morning rise	8291 Nov 02 01:37	3°M07'53	
direct asc. node	8290 Nov 22 12:36	20°M32'51 22°M26'48		direct	8291 Nov 04 11:33	2°M50'34 7°M06'18	19°01'17
	8290 Nov 27 23:59 8290 Nov 30 06:59	24°ML21'37	18°16'27	morning max el asc. node	8291 Nov 13 09:37 8291 Nov 14 21:01	8°M37'35	19-01-17
morning max el	8290 Nov 30 06:59 8290 Dec 04 22:02	24°االہ21'37 0° الہ	18-10-27	asc. node	8291 Nov 28 02:06	8°11L3/33 0° √ 1	
morning set	8290 Dec 04 22:02 8290 Dec 16 02:12	19° ∡ ³31'24		morning set	8291 Nov 30 01:07	3° ∡ ¹50'39	
morning set	8290 Dec 10 02:12 8290 Dec 21 15:11	0°る		morning set	02)1 NOV 30 01.07	3 🗡 3037	
	02)0 DCC 21 13.11	° O		superior conj	8291 Dec 08 09:22	20° ∡ 13'25	1°16'51
superior conj	8290 Dec 25 10:11	6° ප 59'56	0°52'32	minimum elong	8291 Dec 08 12:33	20° × 13'23' 20° × 28'37	1°16'40
minimum elong	8290 Dec 25 13:30	7° ප 15'00	0°52'14	minimum ciong	8291 Dec 13 14:46	0° 궁	1 10 10
desc. node	8291 Jan 01 16:47	19° る 49'33		max. Earth dist.	8291 Dec 15 06:38	3°₹00'01	1.38892 AU
max. Earth dist.	8291 Jan 02 00:48	20° ට 23'42	1.41049 AU	evening rise	8291 Dec 19 02:35	9° ප් 43'23	
evening rise	8291 Jan 06 17:31	28° る 13'34		desc. node	8291 Dec 19 13:47	10° る 31'29	
C	8291 Jan 07 19:41	0° ≈			8291 Dec 31 16:21	0° ≈	
	8291 Jan 27 21:18	0° ∀		evening max el	8292 Jan 23 10:04	29° ≈ 35'49	24°34'10
evening max el	8291 Feb 09 20:35	15°) 50′07	23°14'49		8292 Jan 23 19:57	0° ∀	
retrograde	8291 Feb 20 07:12	22°) €01'00		retrograde	8292 Feb 03 22:42	6°) €20'09	
asc. node	8291 Feb 23 23:03	20° ℋ 54'48		evening set	8292 Feb 09 10:30	4° ∺ 02'48	
evening set	8291 Feb 25 06:35	19° ⊁ 57′02		asc. node	8292 Feb 10 20:09	2°) 42′32	
min. Earth dist.	8291 Mar 02 05:03	14°) (09′04	0.68375 AU		8292 Feb 13 03:11	30° R ≈	
inferior conj	8291 Mar 02 16:08	13°) 30′54	2°02'47	min. Earth dist.	8292 Feb 14 00:51	28° ≈ 49'07	0.67971 AU
minimum elong	8291 Mar 02 13:55	13° ∺ 38′30	2°02'07	inferior conj	8292 Feb 14 23:21	27° ≈ 34'03	1°19'28
morning rise	8291 Mar 07 21:12	7° ∺ 24'37		minimum elong	8292 Feb 14 21:37	27° ≈ 39'48	1°18'55
direct	8291 Mar 12 04:52	5°) 41′03		morning rise	8292 Feb 20 08:55	21° ≈ 34′20	
morning max el	8291 Mar 20 16:47	10°) (34'46	21°08'13	direct	8292 Feb 24 03:33	20°≈12'38	
desc. node	8291 Mar 30 16:29	22°) (47'54		morning max el	8292 Mar 02 16:02	24°≈26'07	19°56'11
	8291 Apr 04 19:02	0°Υ			8292 Mar 07 12:16	0° ∀	
morning set	8291 Apr 20 12:14	23° Y 44'17		desc. node	8292 Mar 16 13:26	12°) €36'21	
Fth 4:-t	8291 Apr 24 10:59	0° 8	1 42600 AII		8292 Mar 28 02:15	0°Υ 2°Υ03'24	
max. Earth dist.	8291 Apr 27 21:38	3 0 3 4 2 0	1.42600 AU	morning set max. Earth dist.	8292 Mar 29 10:21 8292 Apr 09 07:35	19° Υ 05'32	1.44228 AU
superior conj	8291 May 05 02:27	17° 8 35'56	2002146	max. Earth dist.	8292 Apr 09 07.33	19 1 03 32	1.44226 AU
minimum elong	8291 May 05 02.27 8291 May 05 07:11	17° 8 56'08		superior conj	8292 Apr 14 14:45	27° Y '37'09	-2°11'53
minimum ciong	8291 May 12 05:07	0°II	2 03 37	minimum elong	8292 Apr 14 14:30	27° Υ 36'09	
evening rise	8291 May 16 15:25	7° ∏ 55'54		mmmum viong	8292 Apr 16 01:46	0°8	2 1100
asc. node	8291 May 22 21:57	19° Ⅱ 05′26		evening rise	8292 Apr 27 20:32	19° 8 46'10	
	8291 May 29 20:10	0ಂತಾ		3	8292 May 03 20:27	0°II	
evening max el	8291 Jun 02 04:35	3° 9 56'16	18°06'22	asc. node	8292 May 08 19:02	8° Ⅱ 03'42	
retrograde	8291 Jun 08 21:02	7° © 20'59		evening max el	8292 May 15 17:56	17° Ⅱ 13'30	18°09'29
evening set	8291 Jun 11 09:57	6°∽51'37		retrograde	8292 May 22 03:18	20° Ⅲ 34'47	
inferior conj	8291 Jun 18 02:57	1° © 55'29	2°16'59	evening set	8292 May 24 23:35	19° Ⅱ 52'58	
minimum elong	8291 Jun 18 05:59	1° © 48'12	2°15'59	inferior conj	8292 May 31 03:01	14° Ⅲ 38′07	2°58'39
	8291 Jun 20 03:12	30° Ŗ Ⅱ		minimum elong	8292 May 31 05:19	14° Ⅲ 31'53	2°58'05
min. Earth dist.	8291 Jun 21 08:31	28° ∏ 52′02	0.60712 AU	min. Earth dist.	8292 Jun 02 21:06	11° Ⅱ 40′39	0.62907 AU
morning rise	8291 Jun 24 23:28	26° Ⅱ 00′33		morning rise	8292 Jun 06 09:27	8° Ⅱ 28'35	
desc. node	8291 Jun 26 15:58	25° Ⅲ 02'54		desc. node	8292 Jun 12 13:00	5° Ⅱ 56'38	
direct	8291 Jul 01 13:46	23° ∏ 51'17		direct	8292 Jun 13 03:55	5° Ⅱ 55'24	
	8291 Jul 13 22:48	0°€		morning max el	8292 Jun 27 04:22	13° Ⅱ 58'29	27°51'01
morning max el	8291 Jul 15 21:06	1°5549'28	27°50'52		8292 Jul 10 02:19	0° ©	
	8291 Aug 05 09:45	0°N			8292 Jul 27 22:55	0°N	
morning set	8291 Aug 17 13:22	22° Ω 56'46		morning set	8292 Jul 31 11:47	6° Ω 57'36	
asc. node	8291 Aug 18 21:23	25° Ω 43'56		asc. node	8292 Aug 04 18:22	15° Ω 48'14	1 22204 411
	8291 Aug 20 21:28	0° т р		max. Earth dist.	8292 Aug 05 18:18	17° Ω 55'32	1.32386 AU

superior conj	8292 Aug 08 04:17	23° Ω 08'06	0°34'08	superior conj	8293 Jul 23 07:53	7° Ω 21'46	0°06'59
minimum elong	8292 Aug 08 02:46	22° Ω 59'51	0°33'43	minimum elong	8293 Jul 23 07:32	7° Ω 19'55	0°06'46
	8292 Aug 11 07:49	0° m		behind sun begin	8293 Jul 23 02:29	6° Ω 53'09	
evening rise	8292 Aug 15 01:45	8° ™ 07'04		behind sun end	8293 Jul 23 12:36	7° Ω 46'43	
	8292 Aug 26 09:08	0∘ ত		evening rise	8293 Jul 30 12:46	22° Ω 43'41	
evening max el	8292 Sep 07 21:57	16° ≏ 41'20	23°43'09		8293 Aug 03 01:08	0°mp	
desc. node	8292 Sep 08 11:55	17° £ 14'26		evening max el	8293 Aug 20 11:33	26° m 55'47	22°04'31
retrograde	8292 Sep 21 12:37	23° £ 29'58		S	8293 Aug 24 02:27	0° <u>م</u>	
evening set	8292 Sep 25 23:52	22° Ω 46'16		desc. node	8293 Aug 26 09:02	1° Ω 25'28	
min. Earth dist.	8292 Oct 02 08:14	19° £ 43'46	0.55825 AU	retrograde	8293 Sep 02 05:18	3° £ 15'46	
inferior conj	8292 Oct 02 08:14 8292 Oct 04 10:09	19 = 43 40 18° £ 28'55		-	8293 Sep 02 05:18 8293 Sep 05 05:20	2° £ 55'45	
5				evening set			
minimum elong	8292 Oct 04 08:43	18° £ 31'04	5°34'09		8293 Sep 12 08:21	30°R, Mp	0.54040.477
morning rise	8292 Oct 12 19:42	14° ≏ 33'59		min. Earth dist.	8293 Sep 13 16:34	29° Mp 15'24	0.54848 AU
direct	8292 Oct 15 15:18	14° ≏ 14'08		inferior conj	8293 Sep 14 07:29	28° m 54'30	
morning max el	8292 Oct 26 00:29	19° ≏ 06'46	20°08'24	minimum elong	8293 Sep 13 23:14	29° Mp 06'04	4°55'09
asc. node	8292 Oct 31 18:02	25° ≙ 54'50		morning rise	8293 Sep 22 18:38	25° m 06'18	
	8292 Nov 03 10:26	0° M		direct	8293 Sep 26 03:56	24° Mp 40'50	
morning set	8292 Nov 13 06:31	18° M ₊27'08			8293 Oct 07 18:35	0∘ ⊽	
-	8292 Nov 18 21:44	0° ∡ ¹		morning max el	8293 Oct 08 02:12	0° ہ 17'32	21°36'51
				asc. node	8293 Oct 18 15:01	14° ≏ 03'04	
superior conj	8292 Nov 20 22:21	4° ≯ 06'04	1°32'25		8293 Oct 27 02:37	0°M₊	
minimum elong	8292 Nov 21 00:28	4° √ 16'44	1°32'25	morning set	8293 Oct 28 15:55	3°ML13'10	
max. Earth dist.		15°×704'18	1.36781 AU	morning set	6273 Oct 26 13.33	3 1101310	
	8292 Nov 26 12:56		1.30/81 AU		0202 N 04 21 04	100 m 25144	1040100
evening rise	8292 Nov 30 08:17	22° ₹ 08'08		superior conj	8293 Nov 04 21:04	18°M25'44	1°40'08
	8292 Dec 04 19:15	0° ろ		minimum elong	8293 Nov 04 21:51	18°M29'54	1°40'14
desc. node	8292 Dec 05 10:49	1° る 06'32		max. Earth dist.	8293 Nov 09 00:51	26°M57'45	1.34914 AU
	8292 Dec 24 12:33	0° ≈			8293 Nov 10 13:27	0° ∡	
evening max el	8293 Jan 04 23:13	13° ≈ 23′20	25°46'26	evening rise	8293 Nov 13 06:56	5° ∡ 17'40	
retrograde	8293 Jan 17 09:28	20° ≈ 29'55		desc. node	8293 Nov 22 07:51	21° х 29'42	
evening set	8293 Jan 23 09:55	18° ≈ 01'42			8293 Nov 27 13:55	8°0	
min. Earth dist.	8293 Jan 27 17:26	13° ≈ 22'33	0.67187 AU	evening max el	8293 Dec 18 12:36	27° る 06'17	26°44'14
asc. node	8293 Jan 27 17:15	13° ≈ 23'04		•	8293 Dec 21 19:07	0° ≈	
inferior conj	8293 Jan 29 03:17	11° ≈ 35′27	0°28'09	retrograde	8293 Dec 31 14:41	4° ≈ 23'51	
minimum elong	8293 Jan 29 02:34	11° ≈ 37'42	0°27'59	evening set	8294 Jan 07 03:00	1° ≈ 48'52	
morning rise	8293 Feb 03 19:42	5°≈44'13	0 27 37	evening set	8294 Jan 09 02:43	30°Rる	
direct	8293 Feb 07 02:42	4°≈42'05		min. Earth dist.	8294 Jan 11 04:22	27°る44'26	0.66036 AU
		4 ≈42 03 8°≈27'10	18°59'03		8294 Jan 13 01:50	27 3 44 20 25° る 30'46	
morning max el	8293 Feb 13 23:00			inferior conj			
greatest brilliancy	8293 Feb 28 14:49	28°≈26'16	-0.8m	minimum elong	8294 Jan 13 02:42	25° ට 28'14	0°30'06
	8293 Mar 01 15:16	0° ∀		asc. node	8294 Jan 14 14:20	23° る 45'31	
desc. node	8293 Mar 03 10:22	2°) 46′04		morning rise	8294 Jan 19 03:22	19° る 50'33	
morning set	8293 Mar 08 15:21	10° ¥ 50′39		direct	8294 Jan 22 00:25	19° る 04'42	
	8293 Mar 20 22:08	0 ° Υ		morning max el	8294 Jan 28 12:08	22° る 33'11	18°18'17
max. Earth dist.	8293 Mar 22 23:34	3° Ƴ 13'52	1.45237 AU		8294 Feb 03 12:09	0° ≈	
				morning set	8294 Feb 16 22:17	20° ≈ 58'49	
superior conj	8293 Mar 25 04:52	6° Ƴ 43'29	-2°01'01	desc. node	8294 Feb 18 07:18	23° ≈ 11'13	
minimum elong	8293 Mar 24 21:40	6° Ƴ 15'09	2°00'37		8294 Feb 22 13:38	0° ∀	
Č	8293 Apr 08 17:37	0°8					
evening rise	8293 Apr 09 02:59	0° 8 38'07		superior conj	8294 Mar 04 09:37	15°) €31'28	-1°30'39
asc. node	8293 Apr 25 16:07	26° 8 29'22		minimum elong	8294 Mar 04 00:08	14°) (54'16	
use. Houe	8293 Apr 28 13:56	0°II		max. Earth dist.	8294 Mar 05 19:08	17°) 42'45	1.45518 AU
avanina may al	-	0° П 43'00	18°30'56	max. Lartii dist.		0°Υ	1.43316 AC
evening max el	8293 Apr 29 06:29		18 30 30		8294 Mar 13 15:46		
retrograde	8293 May 05 18:13	4° Ⅱ 14'32		evening rise	8294 Mar 20 10:21	10° Y 35'49	0.0
evening set	8293 May 08 21:49	3° Ⅱ 18'53		greatest brilliancy	8294 Mar 31 08:18	27° Y 36′13	-0.8m
	8293 May 12 17:26	30° ₹ 8			8294 Apr 01 22:06	0°8	
inferior conj	8293 May 14 15:36	27° 8 46'33	3°19'11	evening max el	8294 Apr 12 15:47	14° 8 18'57	19°09'45
minimum elong	8293 May 14 16:36	27° 8 43'34	3°18'58	asc. node	8294 Apr 12 13:13	14° 8 12'24	
min. Earth dist.	8293 May 16 18:46	25° 8 14'20	0.64849 AU	retrograde	8294 Apr 19 14:15	18° 8 13'10	
morning rise	8293 May 20 10:33	21° 8 30'22		evening set	8294 Apr 23 01:35	17° 8 02'55	
direct	8293 May 27 02:02	18° 8 44'59		inferior conj	8294 Apr 28 13:09	11° 8 14'41	3°23'07
desc. node	8293 May 30 10:02	19° 8 21'01		minimum elong	8294 Apr 28 12:52	11° 8 15'38	3°23'01
morning max el	8293 Jun 09 14:16	26° 8 41'06	27°16'08	min. Earth dist.	8294 Apr 30 00:55	9° 8 19'45	0.66402 AU
٠٠٠٠٠٠	8293 Jun 12 16:20	0°II		morning rise	8294 May 03 23:44	4° 8 56'37	
	8293 Jul 03 17:21	0°.©		direct	8294 May 10 06:44	2° 8 11'16	
morning set	8293 Jul 15 01:09	0 3 20° 5 29'04		desc. node	8294 May 17 07:01	4° 8 49'48	
•			1 22/75 ATT		•		26012120
max. Earth dist.	8293 Jul 19 14:38	29°536'18	1.33475 AU	morning max el	8294 May 23 00:36	9° 8 47'01	26°13'29
	8293 Jul 19 19:15	0° N			8294 Jun 07 23:04	0° Ⅱ	
asc. node	8293 Jul 22 15:20	5° Ω 54'23			8294 Jun 26 06:08	0₀ ©	

	00047 00 00 01	2200011			0005 7 10 00 10	1.50 11.00	
morning set	8294 Jun 28 02:01	3° 5 22'15		morning set	8295 Jun 10 09:49	15° Ⅱ 24'38	
max. Earth dist.	8294 Jul 02 00:30	10° © 52'14	1.35045 AU	max. Earth dist.	8295 Jun 14 00:39	21° I I56'45	1.37019 AU
					8295 Jun 18 07:32	0	
superior conj	8294 Jul 07 04:20	21° © 10'42	-0°23'15				
minimum elong	8294 Jul 07 05:41	21° © 17'33	0°23'09	superior conj	8295 Jun 20 14:34	4° 5 26'36	-0°55'05
asc. node	8294 Jul 09 12:20	25° 9 58'57		minimum elong	8295 Jun 20 17:57	4°5543'08	0°54'39
	8294 Jul 11 10:42	$0^{\circ}\Omega$		asc. node	8295 Jun 26 09:20	15° © 57'38	
evening rise	8294 Jul 14 21:13	7° Ω 09'13		evening rise	8295 Jun 29 00:42	21°516'35	
evening rise	8294 Jul 27 07:54	0° m)		evening rise	8295 Jul 03 11:09	0°Ω	
			2002/150		8295 Jul 15 23:51	18° Ω 58'51	19°28'21
evening max el	8294 Aug 02 11:03	7° Mp 35'31	20°36'58	evening max el			19 20 21
desc. node	8294 Aug 13 06:07	13° m 09'23		retrograde	8295 Jul 25 13:20	23° Ω 42'09	
retrograde	8294 Aug 13 17:23	13° m 09'56		evening set	8295 Jul 27 09:48	23° Ω 32'16	
evening set	8294 Aug 15 19:08	12° Mp 59'24		desc. node	8295 Jul 31 03:10	22° Ω 18'55	
inferior conj	8294 Aug 25 00:08	9° m 02′23	-3°27'14	inferior conj	8295 Aug 05 02:50	19° Ω 26′13	-1°31'39
minimum elong	8294 Aug 24 15:12	9° m ,15′12	3°24'24	minimum elong	8295 Aug 04 22:42	19° Ω 32'52	1°30'10
min. Earth dist.	8294 Aug 26 01:49	8° Mp 25'28	0.54773 AU	min. Earth dist.	8295 Aug 07 14:17	17° Ω 50′56	0.55641 AU
morning rise	8294 Sep 02 11:00	5° mg 00'52		morning rise	8295 Aug 13 09:02	14° Ω 52'47	
direct	8294 Sep 06 12:24	4° m 25'36		direct	8295 Aug 18 05:40	13° Ω 59'35	
morning max el	8294 Sep 19 17:56	10° m 47'59	23°20'08	morning max el	8295 Sep 01 06:26	21° Ω 02'25	25°04'50
morning must vi	8294 Oct 03 21:58	0° ⊽	25 20 00	morning man vi	8295 Sep 09 00:51	0° m)	20 0.00
asc. node	8294 Oct 05 11:58	ა <u>—</u> 2° ჲ 50'07		asc. node	8295 Sep 22 08:55	22° m) 06'21	
				asc. node	•		
morning set	8294 Oct 13 03:18	18° Ω 03'07			8295 Sep 26 06:25	0° ⊽	
	8294 Oct 18 16:25	0°M₊		morning set	8295 Sep 27 14:59	2° £ 52'04	
						_	
superior conj	8294 Oct 20 02:23	3°M03′22	1°40'56	superior conj	8295 Oct 04 11:51	17° £ 51'25	1°35'36
minimum elong	8294 Oct 20 01:56	3° ™ 00'55	1°41'01	minimum elong	8295 Oct 04 10:25	17° ≏ 43'30	1°35'33
max. Earth dist.	8294 Oct 22 20:57	8°M58'10	1.33424 AU	max. Earth dist.	8295 Oct 06 00:34	21° ≏ 12'18	1.32374 AU
evening rise	8294 Oct 27 18:40	19° ™ 02'06			8295 Oct 10 03:01	0° M	
	8294 Nov 02 12:31	0° ∡ ¹		evening rise	8295 Oct 11 16:06	3°M12'43	
desc. node	8294 Nov 09 04:54	11° ∡ ³35′02			8295 Oct 26 07:06	0° ⊼ ¹	
	8294 Nov 21 17:42	აი		desc. node	8295 Oct 27 01:57	1° √ 14'54	
evening max el	8294 Dec 01 01:19	10° る 33'56	27°20'18	evening max el	8295 Nov 13 11:39	23° х 34′24	27°28'14
retrograde	8294 Dec 14 13:44	17° る 53'57	_, _, _,		8295 Nov 22 20:42	0°ਰ	_, _, .
evening set	8294 Dec 21 11:28	15°る18'22		retrograde	8295 Nov 27 06:11	್ರಂತ್ರ 0° ಕ್ರ 51'21	
min. Earth dist.	8294 Dec 25 07:27	13 3 1822	0.64538 AU	renograde	8295 Dec 01 10:57	0 ℃3121 30°R×7	
				. ,		-	
inferior conj	8294 Dec 27 16:38	9° る 14'15		evening set	8295 Dec 04 08:30	28° 🗷 24'09	0.62721.444
minimum elong	8294 Dec 27 19:34		1°34'27	min. Earth dist.	8295 Dec 08 00:58	25° ₹ 22'35	0.62731 AU
asc. node	8295 Jan 01 11:24	4° る 46'59		inferior conj	8295 Dec 10 20:53	22° ∡ ³39'35	
morning rise	8295 Jan 03 05:13	3° る 47'56		minimum elong	8295 Dec 11 02:07	22° х 27'00	2°43'06
direct	8295 Jan 05 18:14	3° る 14'38		morning rise	8295 Dec 17 21:51	17° ₹ 30'14	
morning max el	8295 Jan 12 04:51	6° る 37'12	17°54'24	asc. node	8295 Dec 19 08:25	17° ∡ 109′15	
	8295 Jan 27 21:58	0° ≈		direct	8295 Dec 20 05:13	17° ₹ 05'44	
morning set	8295 Jan 29 10:23	2° ≈ 32'53		morning max el	8295 Dec 26 22:06	20° х 31'45	17°48'03
desc. node	8295 Feb 05 04:14	13° ≈ 46'41			8296 Jan 03 00:34	0°ರ	
				morning set	8296 Jan 11 22:32	15° ට 16'22	
superior conj	8295 Feb 12 00:21	24° ≈ 53'19	-0°48'07	3	8296 Jan 20 09:36	0° ≈	
minimum elong	8295 Feb 11 18:49	24° ≈ 31'08	0°47'15	desc. node	8296 Jan 23 01:11	4°≈29'00	
Amminum Clong	8295 Feb 15 05:18	0°)	5 1, 15	2000. HOGO	(2) (vaii 2) (1.11	1 /4/27 00	
mov. Earth dist			1.45054 AU	aumorior comi	8296 Jan 23 14:22	5° ≈ 24'12	0904102
max. Earth dist.	8295 Feb 16 14:48		1.43034 AU	superior conj			
evening rise	8295 Feb 28 01:02	19°) 58'37		minimum elong	8296 Jan 23 13:58	5°≈22'32	0°03'50
	8295 Mar 06 14:35	0°Υ		behind sun begin	8296 Jan 23 05:05	4° ≈ 45'19	
greatest brilliancy	8295 Mar 14 20:44	12° Y 19'56	-0.6m	behind sun end	8296 Jan 23 22:51	5° ≈ 59'41	
evening max el	8295 Mar 26 20:03	27° Y 56'40	20°04'25	max. Earth dist.	8296 Jan 30 07:35	16° ≈ 25'19	1.43908 AU
	8295 Mar 29 01:46	9° 8		evening rise	8296 Feb 07 12:58	29° ≈ 22'53	
asc. node	8295 Mar 30 10:19	0° ႘ 59'25			8296 Feb 07 22:34	0° ℋ	
retrograde	8295 Apr 03 12:36	2° 8 24'00			8296 Feb 28 08:01	0 ° Υ	
evening set	8295 Apr 07 08:26	0° 8 58'51		evening max el	8296 Mar 08 18:46	11° Y 35'37	21°12'11
	8295 Apr 08 12:10	30° ₹ Υ		asc. node	8296 Mar 16 07:23	16° Ƴ 35'56	
inferior conj	8295 Apr 12 16:41	24° Y 56'31	3°13'53	retrograde	8296 Mar 17 10:59	16° Ƴ 42'42	
minimum elong	8295 Apr 12 15:21	25° Υ '01'02	3°13'40	evening set	8296 Mar 21 16:30	15° Υ 02'27	
min. Earth dist.	8295 Apr 13 13:57	23° Y '44'35	0.67514 AU	inferior conj	8296 Mar 26 23:48	8° Υ 48'31	2°53'41
morning rise	8295 Apr 17 22:02	18° Υ 39'31	2.07011110	minimum elong	8296 Mar 26 21:48	8° Υ 55'28	2°53'15
direct	•	16° Υ 04'16		min. Earth dist.		8° Υ 20'40	0.68185 AU
direct desc. node	8295 Apr 23 17:11	21° Υ '51'11			8296 Mar 27 07:50	8° γ 20'40 2° γ 34'25	0.00103 AU
	8295 May 04 03:59		24952127	morning rise	8296 Apr 01 02:54		
morning max el	8295 May 05 10:06	23° Y 05'10	24 32 20	direct	8296 Apr 06 08:30	0°Υ16'25	2202210.5
	8295 May 11 12:37	0° Β		morning max el	8296 Apr 16 19:25	6° Y 29'53	23°23'05
	8295 Jun 01 07:25	0~11		desc node	8296 Apr 20 00:57	u~ v~50'57	

desc. node

8296 Apr 20 00:57

9°**Y**59'57

8295 Jun 01 07:25

 $\Pi^{\circ}0$

	0206 M 05 00 26	000		1 1	0207 4 06 21 55	200 1 57121	
	8296 May 05 00:36	0°8		desc. node	8297 Apr 06 21:55	28°) 57'31	
morning set	8296 May 21 18:59	26° 8 21'42			8297 Apr 07 16:59	0° Υ	
	8296 May 23 22:23	$\Pi^{\circ}0$			8297 Apr 28 05:31	0°8	
max. Earth dist.	8296 May 25 20:23	3° Ⅱ 18'46	1.39237 AU	morning set	8297 May 02 00:58	6° 8 02'33	
				max. Earth dist.	8297 May 07 19:20	15° 8 28'19	1.41446 AU
superior conj	8296 Jun 02 10:47	17° Ⅲ 00′17	-1°26'07				
minimum elong	8296 Jun 02 16:01	17° Ⅱ 24'38	1°25'32	superior conj	8297 May 15 12:29	28° 8 41'34	-1°52'36
	8296 Jun 09 06:46	0∘ ತಾ		minimum elong	8297 May 15 18:14	29° 8 06'53	1°52'13
evening rise	8296 Jun 11 20:21	4° © 57'54		•	8297 May 16 06:15	$\Pi^{\circ}0$	
asc. node	8296 Jun 12 06:21	5° © 46'13		evening rise	8297 May 26 04:33	18° ∏ 04'15	
use. Houe	8296 Jun 26 23:05	0°Ω		asc. node	8297 May 30 03:24	25° I I20'06	
avanina may al	8296 Jun 28 00:20	1° Ω 05'50	18°40'38	asc. node	8297 Jun 01 18:10	0°95	
evening max el		5°Ω06'16	16 40 36				10012110
retrograde	8296 Jul 06 02:07			evening max el	8297 Jun 11 08:46	13° © 47'57	18°13'18
evening set	8296 Jul 08 03:19	4° Ω 51'41		retrograde	8297 Jun 18 09:50	17° © 20'52	
inferior conj	8296 Jul 16 01:11	0° Ω 27'52		evening set	8297 Jun 20 18:34	16° © 57'36	
minimum elong	8296 Jul 16 01:50	0° Ω 26'38	0°16'54	inferior conj	8297 Jun 27 21:12	12° © 13'07	1°41'22
	8296 Jul 16 16:00	30° ₹ 🥯		minimum elong	8297 Jun 28 00:03	12° © 06'51	1°40'17
desc. node	8296 Jul 17 00:16	29° 5 44'25		min. Earth dist.	8297 Jul 01 06:19	9° © 16'56	0.59414 AU
min. Earth dist.	8296 Jul 19 07:17	28° © 02'36	0.57293 AU	desc. node	8297 Jul 03 21:20	7° © 17'30	
morning rise	8296 Jul 23 20:51	25° © 17'21		morning rise	8297 Jul 05 02:30	6° © 31'45	
direct	8296 Jul 29 13:41	23°956'48		direct	8297 Jul 11 11:10	4° © 39'41	
uncet	8296 Aug 11 07:32	0°Ω			8297 Jul 25 19:53	12° © 30'18	27922125
	-		26022150	morning max el			21-33-23
morning max el	8296 Aug 12 21:58	1° Ω 29'01	26°33'59		8297 Aug 08 15:17	0 $^{\circ}\Omega$	
	8296 Sep 02 03:53	0°Щ			8297 Aug 25 08:32	0° m)	
asc. node	8296 Sep 08 05:52	11° m 43'22		morning set	8297 Aug 26 08:33	2° Mp 05'01	
morning set	8296 Sep 11 01:17	17° m 34'14		asc. node	8297 Aug 26 02:51	1° m 35'10	
	8296 Sep 16 18:03	0∘ ত					
				superior conj	8297 Sep 02 11:03	17° m 30'37	1°08'44
superior conj	8296 Sep 17 23:21	2° - 42'24	1°24'43	minimum elong	8297 Sep 02 08:49	17° mp 18'09	1°08'20
minimum elong	8296 Sep 17 21:17	2° £ 30'57	1°24'28	max. Earth dist.	8297 Sep 01 19:26	16° Mp 04'00	1.31661 AU
max. Earth dist.	8296 Sep 18 09:10	3° ≏ 36'48	1.31787 AU		8297 Sep 08 03:11	$0 \circ \overline{\mathbf{v}}$	
evening rise	8296 Sep 24 20:21	17° ≏ 40'39	1.51707110	evening rise	8297 Sep 09 05:06	2° ₽ 19'18	
evening rise	*	0°M		evening rise	*	0°M	
	8296 Sep 30 23:21				8297 Sep 23 23:41		
desc. node	8296 Oct 12 23:03	20°M18'04		desc. node	8297 Sep 29 20:09	8°M30'06	2 (00 4152
	8296 Oct 20 05:00	0° ∡ ¹		evening max el	8297 Oct 07 15:41	17° ™ 25'44	26°04'53
evening max el	8296 Oct 25 17:15	5° ≯ 54'41	27°03'21	retrograde	8297 Oct 21 13:53	24°M29'42	
retrograde	8296 Nov 08 14:53	13° ∡ ¹05′24		evening set	8297 Oct 27 23:55	22°M51'17	
evening set	8296 Nov 15 14:14	10° ₹ 57'29		min. Earth dist.	8297 Nov 01 04:38	20°M16'26	0.58624 AU
min. Earth dist.	8296 Nov 19 07:55	8° ⊀ 16'22	0.60704 AU	inferior conj	8297 Nov 04 08:15	17° M 57'38	-4°54'38
inferior conj	8296 Nov 22 11:15	5° ∡ ³37'13	-3°54'23	minimum elong	8297 Nov 04 15:04	17°M45'03	4°53'08
minimum elong	8296 Nov 22 18:17	5° ∡ ¹22'19	3°52'05	morning rise	8297 Nov 12 08:31	13°M30'32	
morning rise	8296 Nov 30 00:43	0° ∡ 747'46		direct	8297 Nov 14 15:17	13°M13'15	
direct	8296 Dec 02 05:37	0°×728'30		asc. node	8297 Nov 22 02:27	16°M31'07	
asc. node	8296 Dec 05 05:26	1°×705'35		morning max el	8297 Nov 22 02:27 8297 Nov 22 20:21	17°M12'29	19022142
			10000117	morning max er			16 32 43
morning max el	8296 Dec 09 12:28	4° ₹ 06'48	18°00'17		8297 Dec 01 23:39	0° ⊼	
morning set	8296 Dec 25 04:10	28° ∡ ¹48'53		morning set	8297 Dec 08 21:57	12° ₹ 54'45	
	8296 Dec 25 19:33	0°ಕ				_	
		_		superior conj	8297 Dec 17 18:49	29° ∡ 52'03	1°03'58
superior conj	8297 Jan 04 05:46	17° る 07'23	0°34'21	minimum elong	8297 Dec 17 22:14	0° る 07'56	1°03'42
minimum elong	8297 Jan 04 08:25	17° る 19'03	0°34'07		8297 Dec 17 20:32	5°0	
desc. node	8297 Jan 08 22:10	25° ප 14'01		max. Earth dist.	8297 Dec 25 04:09	13° る 10'01	1.40152 AU
	8297 Jan 11 18:14	0° ≈		desc. node	8297 Dec 26 19:10	15° ಕ 58'11	
max. Earth dist.	8297 Jan 11 20:01	0° ≈ 07'27	1.42208 AU	evening rise	8297 Dec 29 09:16	20° る 20'28	
evening rise	8297 Jan 17 12:52	9° ≈ 23'56		3	8298 Jan 04 08:03	0° ≈	
evening rise	8297 Jan 31 01:21	0° \			8298 Jan 25 06:10	0° ∀	
			2202015.5			9° ₩ 01'39	22940104
evening max el	8297 Feb 19 12:41	25° 升 16'58 0° Υ	22 28 33	evening max el	8298 Feb 02 03:21		23 49 04
	8297 Feb 25 10:49			retrograde	8298 Feb 13 01:14	15°) €27'11	
retrograde	8297 Mar 01 07:40	1°Υ05'13		evening set	8298 Feb 18 05:52	13°) 17'25	
asc. node	8297 Mar 03 04:29	0° Y 47'37		asc. node	8298 Feb 18 01:35	13° ¥ 26′22	
	8297 Mar 04 20:46	30°Ŗ ℋ		min. Earth dist.	8298 Feb 23 00:47	7°) (44′04	0.68255 AU
evening set	8297 Mar 06 00:10	29°) €09'57		inferior conj	8298 Feb 23 16:42	6°){ 49'54	1°45'24
inferior conj	8297 Mar 11 08:26	22°)(47'23	2°23'56	minimum elong	8298 Feb 23 14:38	6° ¥ 56'56	1°44'45
			2022110	morning rise	8298 Feb 28 23:23	0° ¥ 46'15	
minimum elong	8297 Mar 11 06:11	22°) 55'15	2°23'19	morning rise	0270100 20 23.23	0 /(+015	
minimum elong min. Earth dist.	8297 Mar 11 06:11 8297 Mar 11 04:12	22° € 55'15 23° € 02'08	2°23'19 0.68425 AU	morning rise	8298 Mar 02 03:12	30°R≈	
min. Earth dist.	8297 Mar 11 04:12	23°) 02′08		-	8298 Mar 02 03:12	30°R ≈	
min. Earth dist. morning rise	8297 Mar 11 04:12 8297 Mar 16 12:02	23° ₭ 02'08 16° ₭ 37'47		direct	8298 Mar 02 03:12 8298 Mar 05 01:28	30°R≈ 29°≈11'58	
min. Earth dist.	8297 Mar 11 04:12	23°) 02′08	0.68425 AU	-	8298 Mar 02 03:12	30°R ≈	20°35'52

	0000 14 04 10 50	1001/20110			0200 F 1 24 05 04	170 - 12120	10020100
desc. node	8298 Mar 24 18:52	18°) 30′18		morning max el	8299 Feb 24 05:04	17°≈43'29	19°30'00
	8298 Apr 01 15:51	0 ° $\mathbf{\gamma}$			8299 Mar 05 21:47	0° ∀	
morning set	8298 Apr 11 06:19	14° Ƴ 37'50		greatest brilliancy	8299 Mar 08 23:59	4°) (30′42	-0.7m
max. Earth dist.	8298 Apr 20 01:43	28° Ƴ 34'01	1.43362 AU	desc. node	8299 Mar 11 15:48	8°) 28′54	
	8298 Apr 20 22:58	$6^{\circ}B$		morning set	8299 Mar 21 04:21	23°) €01'02	
	•				8299 Mar 25 16:41	$0^{\circ}\mathbf{\Upsilon}$	
superior conj	8298 Apr 26 15:06	9° 8 20'03	-2°09'13	max. Earth dist.	8299 Apr 02 15:03	12° Υ 25'20	1.44744 A U
minimum elong	8298 Apr 26 18:13	9° 8 33'04		man. Darm dist.	02>> 11p1 02 10.05	12 12020	1.1.7
evening rise	8298 May 08 20:52	0° Ⅱ 24'59	2 07 13	superior conj	8299 Apr 06 17:06	18° Ƴ 55'15	2000140
evening rise							
	8298 May 08 15:11	0°II		minimum elong	8299 Apr 06 13:48	18° Y 42′03	2°09'45
asc. node	8298 May 17 00:28	14° Ⅱ 33'07			8299 Apr 13 13:13	0°8	
evening max el	8298 May 25 21:15	26° Ⅱ 54′20	18°05'25	evening rise	8299 Apr 20 16:47	11° 8 51'32	
	8298 May 30 14:34	0_{\circ} වෙ			8299 May 01 16:58	Π $\circ 0$	
retrograde	8298 Jun 01 09:17	0° © 15'41		asc. node	8299 May 03 21:33	3° Ⅱ 18'43	
	8298 Jun 03 04:17	30° Ŗ Ⅱ		evening max el	8299 May 09 10:31	10° Ⅱ 17'14	18°16'18
evening set	8298 Jun 04 01:28	29° Ⅱ 41'05		retrograde	8299 May 15 19:51	13° Ⅱ 41'33	
inferior conj	8298 Jun 10 12:09	24° Ⅱ 36'33	2°37'33	evening set	8299 May 18 19:12	12° Ⅱ 53'58	
minimum elong	8298 Jun 10 15:00	24° I I29'21	2°36'44	inferior conj	8299 May 24 18:02	7° I I31'10	2000120
•				•	•		
min. Earth dist.	8298 Jun 13 13:22	21° II 33'17	0.61666 AU	minimum elong	8299 May 24 19:48	7° Ⅱ 26'09	3°09'15
morning rise	8298 Jun 17 02:28	18° ∏ 34′29		min. Earth dist.	8299 May 27 05:51	4° Ⅱ 42'39	0.63774 AU
desc. node	8298 Jun 20 18:24	16° Ⅱ 42'41		morning rise	8299 May 30 19:12	1° Ⅱ 17'49	
direct	8298 Jun 23 19:30	16° Ⅱ 14'09			8299 Jun 01 16:41	30°₽ ႘	
morning max el	8298 Jul 08 00:16	24° Ⅱ 14'42	27°55'38	direct	8299 Jun 06 12:58	28° 8 38'12	
	8298 Jul 13 05:02	0ංම		desc. node	8299 Jun 07 15:26	28° 8 42'07	
	8298 Aug 01 23:54	$0^{\circ}\Omega$			8299 Jun 11 18:44	$\Pi^{\circ}0$	
morning set	8298 Aug 10 10:48	16° Ω 18'04		morning max el	8299 Jun 20 09:12	6° Ⅱ 39'53	27°40'10
asc. node	8298 Aug 12 23:49	21° Ω 35'49		morning max cr	8299 Jul 08 05:01	0° ©	27 40 10
	-		1 21000 ATT			0° Ω 07'07	
max. Earth dist.	8298 Aug 16 03:24	28° £ 21'31	1.31989 AU	morning set	8299 Jul 25 05:43		
	8298 Aug 16 21:28	0° m			8299 Jul 25 04:17	0 \circ Ω	
				max. Earth dist.	8299 Jul 30 05:06	10° Ω 18'19	1.32790 AU
superior conj	8298 Aug 17 21:08	2° Mp 09'40	0°48'02	asc. node	8299 Jul 30 20:48	11° Ω 41'08	
minimum elong	8298 Aug 17 19:12	1° m 59'01	0°47'34				
evening rise	8298 Aug 24 16:13	17° m 01'29		superior conj	8299 Aug 02 03:42	16° Ω 34'07	0°23'03
	8298 Aug 31 00:34	0० ट		minimum elong	8299 Aug 02 02:36	16° Ω 28'14	0°22'41
desc. node	8298 Sep 16 17:15	25° £ 30'43		Ü	8299 Aug 08 08:48	0° m	
evening max el	8298 Sep 19 06:13	28° ♀ 07'53	24°39'16	evening rise	8299 Aug 09 03:49	1° Mp 41'35	
evening max er	8298 Sep 21 08:15	0° M	24 37 10	evening rise	8299 Aug 24 17:30	0° ⊡	
	•			·	•		22000122
retrograde	8298 Oct 03 01:35	5°M04'31		evening max el	8299 Aug 31 17:26	8° £ 21'39	23°00'33
evening set	8298 Oct 08 09:24	4°M01'16		desc. node	8299 Sep 03 14:22	10° £ 52'46	
min. Earth dist.	8298 Oct 13 17:16	1° M ₊14'20	0.56720 AU	retrograde	8299 Sep 14 01:14	15° ≏ 01'13	
	8298 Oct 15 15:55	30° ₹ Ω		evening set	8299 Sep 17 20:54	14° ≏ 29'16	
inferior conj	8298 Oct 16 09:11	29° ≏ 32'10	-5°31'19	min. Earth dist.	8299 Sep 25 02:04	11° ≏ 12'22	0.55305 AU
minimum elong	8298 Oct 16 11:54	29° ≙ 27'48	5°31'04	inferior conj	8299 Sep 26 14:45	10° ≙ 19'25	-5°25'18
morning rise	8298 Oct 24 16:37	25° £ 27'31		minimum elong	8299 Sep 26 10:02	10° ≏ 26'14	5°24'48
direct	8298 Oct 27 06:20	25° ഫ 09'20		morning rise	8299 Oct 05 01:16	6° £ 29'50	
morning max el	8298 Nov 05 18:14	29° ₽ 39'08	19°27'04	direct	8299 Oct 08 02:13	6° £ 08'07	
morning max er	8298 Nov 06 02:52	0° ™	17 27 04	morning max el	8299 Oct 19 03:30	11° ⊆ 18'33	20043148
asc. node		3°M12'03		asc. node	8299 Oct 26 20:28	20° £ 52'31	20 43 40
	8298 Nov 08 23:28			asc. node			
morning set	8298 Nov 23 00:00	27°M22'52			8299 Nov 01 04:57	0°M	
	8298 Nov 24 07:18	0°⊀		morning set	8299 Nov 07 07:22	12°M04'20	
superior conj	8298 Dec 01 00:27	13° ∡ 24'11	1°24'29	superior conj	8299 Nov 14 18:01	27°M30'02	1°36'36
minimum elong	8298 Dec 01 03:14	13° х 37′50	1°24'22	minimum elong	8299 Nov 14 19:35	27°M38'03	1°36'39
max. Earth dist.	8298 Dec 07 10:01	25° ∡ ³32'55	1.37980 AU		8299 Nov 15 23:30	0° ∡ ¹	
	8298 Dec 09 21:03	0°రె		max. Earth dist.	8299 Nov 19 18:04	7° ҂ 729'42	1.35940 AU
evening rise	8298 Dec 11 03:29	2° る 14'46		evening rise	8299 Nov 23 16:49	14° ₹ 759'46	
desc. node	8298 Dec 11 05:29	6° る 37'56		desc. node	8299 Nov 30 13:11	27°×708'40	
acse. Houc				dese. Hode		27 x 08 40 0°る	
	8298 Dec 28 12:02	0°≈	25007100		8299 Dec 02 06:02		
evening max el	8299 Jan 15 16:34	22° ≈ 49'03	25°06'09		8299 Dec 23 04:00	0° ≈	
retrograde	8299 Jan 27 14:44	29° ≈ 43'48		evening max el	8299 Dec 29 05:34	6° ≈ 35'01	26°13'07
evening set	8299 Feb 02 08:05	27° ≈ 21'13		retrograde	8300 Jan 10 23:20	13° ≈ 48'11	
asc. node	8299 Feb 04 22:40	24° ≈ 41'34		evening set	8300 Jan 17 05:04	11° ≈ 16′09	
min. Earth dist.	8299 Feb 06 19:22	22° ≈ 22'30	0.67688 AU	min. Earth dist.	8300 Jan 21 09:45	6° ≈ 52'00	0.66743 AU
inferior conj	8299 Feb 07 22:45	20°≈53'04	0°58'38	asc. node	8300 Jan 22 19:46	5°≈07'30	
minimum elong	8299 Feb 07 21:23	20°≈57'31	0°58'14	inferior conj	8300 Jan 23 00:38	4°≈52'29	0°04'04
morning rise	8299 Feb 13 10:58	14°≈56'59		minimum elong	8300 Jan 23 00:31	4°≈52'50	0°04'11
direct	8299 Feb 17 00:30	13°≈43'59		transit middle	8300 Jan 23 00:31	4°≈52'50	0°04'11
uncet	027/100 1/ 00.30	15 ~73 39		transit iniudic	0500 Jan 25 00.51	-r ~ 5∠ 50	0 0711

transit begin	8300 Jan 22 21:45	5°≈01'22		min. Earth dist.	8301 Jan 04 17:44	210至06'50	0.65440 AU
transit end	8300 Jan 23 03:17	3 ≈01 22 4°≈44'19		inferior conj	8301 Jan 06 20:13	18° る 43'51	
transit end	8300 Jan 27 13:36	4 ≈44 19 30°Rる		minimum elong	8301 Jan 06 21:54	18° る 39'04	0°56'42
morning rise	8300 Jan 28 20:42	30 KO 29° ろ 05'52		asc. node	8301 Jan 09 16:49	18 3 3904 15° る 40'13	0 30 42
morning rise		29 3 03 32 28° る 11'17				13° る 4013	
direct	8300 Jan 31 23:09			morning rise	8301 Jan 13 02:14	13°る09'04 12°る29'10	
	8300 Feb 05 13:25	0°≈	10020140	direct	8301 Jan 15 19:30		10005154
morning max el	8300 Feb 07 15:01	1°≈48'01	18°39'40	morning max el	8301 Jan 22 06:00	15°₹54'15	18°05'54
desc. node	8300 Feb 26 12:42	28°≈45'42			8301 Feb 01 13:07	0° ≈	
_	8300 Feb 27 07:36	0°) (morning set	8301 Feb 09 14:33	13°≈04'42	
morning set	8300 Feb 28 18:56	2° 		desc. node	8301 Feb 13 09:36	19° ≈ 15'39	
max. Earth dist.	8300 Mar 16 08:35	26°) 43′25	1.45446 AU		8301 Feb 20 01:46	0°) €	
superior conj	8300 Mar 17 01:00	27°) 47'41	-1°50'15	superior conj	8301 Feb 24 07:44	6°){ 44'18	-1°13'27
minimum elong	8300 Mar 16 15:56	27°) 12'13		minimum elong	8301 Feb 23 23:25	6°) 11′28	
g	8300 Mar 18 10:45	0°Υ	1 ., 01	max. Earth dist.	8301 Feb 27 03:55	11°) 12'28	1.45414 AU
evening rise	8300 Apr 01 13:06	22° Υ 19'01		man. Darun dige.	8301 Mar 11 05:35	0°Υ	1.10111110
evening rise	8300 Apr 06 08:17	0°8		evening rise	8301 Mar 12 11:58	1° Υ 57'38	
greatest brilliancy	8300 Apr 09 08:59	4° 8 49'40	-0.9m	greatest brilliancy	8301 Mar 25 09:44	21° Υ 45'09	-0.7m
asc. node	8300 Apr 20 18:38	21° 8 27'42	-0.9111	greatest offinality	8301 Mar 31 02:48	0° 8	-0.7111
evening max el	8300 Apr 22 21:51	21 8 2742	18°45'23	evening max el	8301 Apr 06 05:09	7° 8 26'46	19°31'18
•	-	27° 8 29'54	10 43 23	asc. node	8301 Apr 00 05:09 8301 Apr 07 15:43	8° 8 48'31	19 31 10
retrograde	8300 Apr 29 13:23 8300 May 02 20:05	26° 8 28'18					
evening set	,		2022120	retrograde	8301 Apr 13 10:36	11° 8 33'56	
inferior conj	8300 May 08 10:51	20° 8 49'01	3°22'39	evening set	8301 Apr 17 01:23	10° 8 17'32	2020140
minimum elong	8300 May 08 11:17	20° 8 47'41	3°22'30	inferior conj	8301 Apr 22 11:15	4° 8 23'19	
min. Earth dist.	8300 May 10 07:27	18° 8 31'19	0.65558 AU	minimum elong	8301 Apr 22 10:29	4° 8 25'52	3°20'31
morning rise	8300 May 14 01:49	14° 8 31'15		min. Earth dist.	8301 Apr 23 16:49	2° 8 45'58	0.66932 AU
direct	8300 May 20 14:09	11° 8 44'20			8301 Apr 25 22:32	30° ₹ Υ	
desc. node	8300 May 25 12:25	13° 8 03'09		morning rise	8301 Apr 27 19:13	28° Y 05'24	
morning max el	8300 Jun 02 19:41	19° 8 34'35	26°52'20	direct	8301 May 03 21:35	25° Y 22'55	
	8300 Jun 11 16:44	$\Pi^{\circ}0$		desc. node	8301 May 12 09:23	29° Y 14'32	
	8300 Jul 01 06:14	0_{\circ} වෙ			8301 May 13 07:07	0°8	
morning set	8300 Jul 08 14:18	13° © 24'07		morning max el	8301 May 16 05:29	2° 8 45'51	25°40'32
max. Earth dist.	8300 Jul 12 21:01	21° © 47'29	1.34078 AU		8301 Jun 05 21:16	Π $^{\circ}0$	
	8300 Jul 16 21:15	$0^{\circ}\Omega$		morning set	8301 Jun 21 08:28	25° Ⅱ 57'12	
					8301 Jun 23 13:03	0	
superior conj	8300 Jul 17 04:36	0° Ω 38′20	-0°05'34	max. Earth dist.	8301 Jun 25 01:56	2° © 53'46	1.35837 AU
minimum elong	8300 Jul 17 04:54	0° Ω 39'56	0°05'40				
behind sun begin	8300 Jul 16 23:31	0° Ω 11'52		superior conj	8301 Jun 30 21:06	14°9514'16	-0°36'41
behind sun end	8300 Jul 17 10:17	1° Ω 08'02		minimum elong	8301 Jun 30 23:17	14° © 25'14	0°36'26
asc. node	8300 Jul 17 17:48	1° Ω 47'21		asc. node	8301 Jul 04 14:47	21° © 49'53	
evening rise	8300 Jul 24 14:00	16° Ω 14'17		evening rise	8301 Jul 08 20:37	0° Ω 32'38	
	8300 Jul 31 11:30	0° m			8301 Jul 08 14:14	$\mathfrak{O}^{\circ}\mathfrak{O}$	
evening max el	8300 Aug 13 10:27	18° m 43'48	21°25'22	evening max el	8301 Jul 26 15:42	29° Ω 41'38	20°05'22
desc. node	8300 Aug 21 11:28	24° Mp 04'44			8301 Jul 26 23:15	O° Mp	
retrograde	8300 Aug 25 15:03	24° Mp46'26		retrograde	8301 Aug 06 04:27	4° M 53′28	
evening set	8300 Aug 28 03:03	24° M 32'06		evening set	8301 Aug 08 02:15	4° ™ 43'59	
inferior conj	8300 Sep 06 08:25	20° Mp 34'21	-4°24'11	desc. node	8301 Aug 08 08:34	4° Mp 41'15	
minimum elong	8300 Sep 05 22:56	20° m 47'38	4°21'48	inferior conj	8301 Aug 17 03:41	0° Mp 45'06	-2°39'18
min. Earth dist.	8300 Sep 06 10:54	20° m/30'52	0.54688 AU	minimum elong	8301 Aug 16 20:26	0° m 55'54	2°36'47
morning rise	8300 Sep 14 19:40	16° Mp 42'47			8301 Aug 18 09:51	30°R Ω	
direct	8300 Sep 18 11:12	16° Mp 13'59		min. Earth dist.	8301 Aug 18 21:27	29° Ω 42'47	0.55031 AU
morning max el	8300 Oct 01 00:29	22° m 11'09	22°19'39	morning rise	8301 Aug 25 13:13	26° £ 31'35	
	8300 Oct 07 18:20	0∘ ⊽		direct	8301 Aug 29 22:46	25° Ω 49'34	
asc. node	8300 Oct 13 17:26	9° £ 18'48			8301 Sep 09 15:03	0° m/	
morning set	8300 Oct 22 17:50	26° £ 52'53		morning max el	8301 Sep 12 13:45	2° m/30'31	24°05'25
Ü	8300 Oct 24 05:11	0°M		asc. node	8301 Sep 30 14:23	28° m 19'06	
					8301 Oct 01 11:32	0∘ <u>⊽</u>	
superior conj	8300 Oct 29 19:54	11° M 58'55	1°41'16	morning set	8301 Oct 07 05:32	11° ≏ 42'31	
minimum elong	8300 Oct 29 20:09	12°ML00'13	1°41'22				
max. Earth dist.	8300 Nov 02 09:01	19°M23'23	1.34224 AU	superior conj	8301 Oct 14 03:15	26° ≏ 41'26	1°39'22
evening rise	8300 Nov 06 21:32	28°M25'56		minimum elong	8301 Oct 14 03:19	26° ⊆ 36'28	
2.06 1100	8300 Nov 07 17:00	20 11 0 23 30		Ciong	8301 Oct 14 02:20 8301 Oct 15 15:56	0°M	. 0, 20
desc. node	8300 Nov 17 10:14	17° ₹ 25'21		max. Earth dist.	8301 Oct 15 15:30 8301 Oct 16 08:30	1°M28'59	1.32924 AU
acse. node	8300 Nov 25 10:51	0°る		evening rise	8301 Oct 10 08:30 8301 Oct 21 13:47	12°M22'30	1.52724 AU
evening max el	8300 Nov 23 10.31 8300 Dec 11 18:44	0 පි 20°පි12'56	27°02'36	evening Hee	8301 Oct 21 13:47 8301 Oct 30 22:23	0° √	
retrograde	8300 Dec 25 02:13	20 3 1230 27° 3 33'12	27 0230	desc. node	8301 Oct 30 22:23 8301 Nov 04 07:19	0 x ⁴ 7° x ⁴20'49	
evening set	8300 Dec 23 02.13 8300 Dec 31 18:48	21 333 12 24°る57'04		dese. Hode	8301 Nov 20 20:25	7 x·2049 0°る	
evening set	5500 DCC 51 10.40	27 U 3/04			5501 110V 20 20.23	υ Ο	

	9201 N 24 06-59	20=21110	27927122		9202 N 20, 11-20	229.720142	
evening max el	8301 Nov 24 06:58	3°₹31'19	21 21 33	retrograde	8302 Nov 20 11:29	23° 🖈 29'43	
retrograde	8301 Dec 07 22:34	10°る50'06		evening set	8302 Nov 27 13:48	21°×709'28	0.61000.177
evening set	8301 Dec 14 22:48	8°る17'18	0.62002.444	min. Earth dist.	8302 Dec 01 06:04	18° ₹ 18'04	0.61889 AU
min. Earth dist.	8301 Dec 18 17:06		0.63802 AU	inferior conj	8302 Dec 04 05:41	15° ₹ 35'09	
inferior conj	8301 Dec 21 06:55	2° る 20'47		minimum elong	8302 Dec 04 11:49	15° ≯ 21'10	3°12'42
minimum elong	8301 Dec 21 10:49	2°る10'44	2°03'11	morning rise	8302 Dec 11 12:00	10° ∡ 33'45	
	8301 Dec 23 16:02	30°Ŗ ⋌ ¹		direct	8302 Dec 13 18:02	10° ≯ 11'46	
asc. node	8301 Dec 27 13:50	27° ∡ 12'30		asc. node	8302 Dec 14 10:52	10° ≯ 13'58	
morning rise	8301 Dec 28 00:37	27° ∡ 00′56		morning max el	8302 Dec 20 15:41	13° ≯ 41'40	17°50'57
direct	8301 Dec 30 10:55	26° ∡ ³31'47			8302 Dec 31 18:32	0° ප	
morning max el	8302 Jan 05 23:17	29° ∡ 54′53	17°49'27	morning set	8303 Jan 05 10:10	80'81 ろ '88	
	8302 Jan 06 01:20	0°ප					
morning set	8302 Jan 22 13:49	25° る 11'33		superior conj	8303 Jan 16 08:31	27° る 35'36	0°13'13
	8302 Jan 25 09:19	0° ≈		minimum elong	8303 Jan 16 09:43	27° る 40'47	0°13'12
desc. node	8302 Jan 31 06:34	9° ≈ 54'40		behind sun begin	8303 Jan 16 04:48	27° る 19'43	
				behind sun end	8303 Jan 16 14:39	28° පි 01'50	
superior conj	8302 Feb 04 07:29	16° ≈ 33'24	-0°29'04		8303 Jan 17 18:27	0° ≈	
minimum elong	8302 Feb 04 04:16	16° ≈ 20′18	0°28'29	desc. node	8303 Jan 18 03:33	0° ≈ 38'28	
max. Earth dist.	8302 Feb 09 22:55	25° ≈ 38′08	1.44650 AU	max. Earth dist.	8303 Jan 23 14:37	9° ≈ 41'50	1.43243 AU
	8302 Feb 12 17:11	0°) €		evening rise	8303 Jan 30 15:11	20°≈53'44	
evening rise	8302 Feb 19 23:39	11°) 17'11			8303 Feb 05 13:17	0° ∀	
	8302 Mar 04 09:39	0° Υ			8303 Feb 26 21:48	0 ° Υ	
evening max el	8302 Mar 20 07:14	21° Y ′06'05	20°31'54	evening max el	8303 Mar 03 03:47	4° Ƴ 46'03	21°43'57
asc. node	8302 Mar 25 12:48	25° Ƴ 07'59		retrograde	8303 Mar 12 06:57	10° Y 10′30	
retrograde	8302 Mar 28 09:06	25° Ƴ 49'11		asc. node	8303 Mar 12 09:54	10° Y 10′26	
evening set	8302 Apr 01 08:59	24°Υ17'34		evening set	8303 Mar 16 17:06	8° Υ 23'34	
inferior conj	8302 Apr 06 16:36	18° Υ 10'12	3°06'33	inferior conj	8303 Mar 22 00:36	2°Υ05'32	2°42'09
minimum elong	8302 Apr 06 14:56	18° Υ 15'54	3°06'14	minimum elong	8303 Mar 21 22:26	2° Υ 13'03	2°41'38
min. Earth dist.	8302 Apr 07 08:06	17° Υ 17'04	0.67860 AU	min. Earth dist.	8303 Mar 22 03:13	1° Υ 56'24	0.68344 AU
morning rise	8302 Apr 11 20:39	11° Υ 54'28	0.07000710	mm. Earth dist.	8303 Mar 23 13:05	30°R) €	0.00544710
direct	8302 Apr 17 10:17	9° Y 25'47		morning rise	8303 Mar 27 03:37	25°) 53′24	
morning max el	8302 Apr 28 14:32	16°Υ06'53	24°14'47	direct	8303 Apr 01 03:15	23°) (44'20	
desc. node	_	16 Υ 00 33 16° Υ 47'30	24 144/		•	23 X 44 20 29° X 35'10	22°45'02
desc. node	8302 Apr 29 06:21			morning max el	8303 Apr 11 00:48	29 χ 33 10	22 43 02
	8302 May 10 01:26	0° ∀		1 1	8303 Apr 11 10:34		
. ,	8302 May 29 20:30	0°П 70П 22120		desc. node	8303 Apr 16 03:18	5° Υ 18'58	
morning set	8302 Jun 03 07:18	7° ∏ 33′28	1 27052 444		8303 May 03 20:11	0°8	
max. Earth dist.	8302 Jun 06 23:30	14° Ⅱ 02'41	1.37952 AU	morning set	8303 May 15 05:16	17° 8 58'39	
				max. Earth dist.	8303 May 19 20:22	25° 8 44'35	1.40203 AU
superior conj	8302 Jun 14 01:55	27° Ⅲ 13'55			8303 May 22 07:35	Π $^{\circ}0$	
minimum elong	8302 Jun 14 06:09	27° ∏ 34'13	1°07'59				
	8302 Jun 15 12:24	0		superior conj	8303 May 27 14:49	9° ∏ 26′21	
asc. node	8302 Jun 21 11:49	11° © 45'05		minimum elong	8303 May 27 20:32	9° ∏ 52′20	1°37'39
evening rise	8302 Jun 22 21:10	14° © 30'13		evening rise	8303 Jun 06 12:27	27° Ⅱ 57'56	
	8302 Jul 01 03:08	$0 {\circ} \Omega$			8303 Jun 07 14:13	0 \circ \odot	
evening max el	8302 Jul 09 09:54	11° Ω 24'16	19°05'29	asc. node	8303 Jun 08 08:51	1°528'02	
retrograde	8302 Jul 18 06:46	15° Ω 47'30		evening max el	8303 Jun 22 14:07	23° © 46'35	18°26'28
evening set	8302 Jul 20 04:47	15° Ω 36′03		retrograde	8303 Jun 30 04:04	27° © 33'43	
desc. node	8302 Jul 26 05:38	12° Ω 56′08		evening set	8303 Jul 02 08:18	27° © 15'53	
inferior conj	8302 Jul 28 13:59	11° Ω 22'49		inferior conj	8303 Jul 09 21:40	22° © 43'00	0°56'27
minimum elong	8302 Jul 28 12:08	11° Ω 25'59	0°42'29	minimum elong	8303 Jul 09 23:36	22° © 39'08	0°55'37
min. Earth dist.	8302 Jul 31 11:18	9° Ω 24'53	0.56271 AU	desc. node	8303 Jul 13 02:42	20°509'18	
morning rise	8302 Aug 05 16:26	6° Ω 33'52		min. Earth dist.	8303 Jul 13 06:33	20° © 01'56	0.58158 AU
direct	8302 Aug 10 22:01	5° Ω 30′04		morning rise	8303 Jul 17 11:29	17° © 18'00	
morning max el	8302 Aug 25 02:46	12° Ω 45'49	25°45'38	direct	8303 Jul 23 11:34	15° 5 44'28	
	8302 Sep 07 13:35	0° m/y		morning max el	8303 Aug 06 21:01	23°\$25'34	27°03'40
asc. node	8302 Sep 17 11:21	17° m) 44'54		_	8303 Aug 12 18:56	$0^{\circ}\Omega$	
morning set	8302 Sep 21 16:49	26° m 28'49			8303 Aug 31 14:33	O° M	
-	8302 Sep 23 08:07	0∘ <u>⊽</u>		asc. node	8303 Sep 04 08:20	7° m 29'03	
				morning set	8303 Sep 06 02:05	11° m 07'00	
superior conj	8302 Sep 28 13:48	11° ≏ 30'53	1°31'37	5 ·	1	3	
minimum elong	8302 Sep 28 12:02	11° Ω 21'11		superior conj	8303 Sep 13 01:37	26° Mp 21'18	1°18'32
max. Earth dist.	8302 Sep 29 14:50	13° Ω 48'55	1.32074 AU	minimum elong	8303 Sep 12 23:25	26° Mp 09'06	1°18'13
evening rise	8302 Oct 05 14:27	26° Ω 41'01	,,	max. Earth dist.	8303 Sep 12 25:25 8303 Sep 13 00:43	26° Mp 16'20	1.31673 AU
	8302 Oct 07 05:07	0°M		Zurur dibt.	8303 Sep 14 17:02	೨೦ n y 10 20	
desc. node	8302 Oct 07 03:07 8302 Oct 22 04:25	26°M46'21		evening rise	8303 Sep 14 17:02 8303 Sep 19 20:53	0 — 11° ≏ 14'08	
acse. Houc	8302 Oct 22 04:23 8302 Oct 24 07:59	20 11 0 4021 0° √		0 , 011111 <u>G</u> 1150	8303 Sep 19 20:53 8303 Sep 29 09:58	0°M	
		16° ∡ 16'10	27021150	desc. node	8303 Oct 09 01:30	15°M30'03	
evening max el	8302 Nov 06 15:45	10, 5, 10, 11,	//~/1:50	desc node	X 10 1 00 00 11 11	1 7 111. 3111114	

evening max el	8303 Oct 19 18:23	28°M15'44	26°42'22		8304 Sep 22 10:45	0°M	
C	8303 Oct 21 17:04	0°⊀		desc. node	8304 Sep 24 22:37	3°M14'41	
retrograde	8303 Nov 02 16:18	5° ∡¹ 23'52		evening max el	8304 Sep 30 13:06	9° M 24'15	25°31'11
evening set	8303 Nov 09 11:42	3° ҂ 27′00		retrograde	8304 Oct 14 11:12	16°M26'31	
min. Earth dist.	8303 Nov 13 08:16	0° ≯ 51'00	0.59811 AU	evening set	8304 Oct 20 11:30	15°ML02'43	
	8303 Nov 14 10:22	30°RM₊		min. Earth dist.	8304 Oct 25 01:17	12°M24'59	0.57766 AU
inferior conj	8303 Nov 16 13:06	28°M₁8′09	-4°21'47	inferior conj	8304 Oct 28 01:45	10° M 19'37	-5°14'13
minimum elong	8303 Nov 16 20:25	28°M03'33	4°19'41	minimum elong	8304 Oct 28 07:24	10° ™ 09'49	5°13'17
morning rise	8303 Nov 24 07:32	23°M38'23		morning rise	8304 Nov 05 05:38	6°M02'33	
direct	8303 Nov 26 12:42	23°M20'19		direct	8304 Nov 07 14:29	5° ™ 45'24	
asc. node	8303 Dec 01 07:54	24°M49'55		morning max el	8304 Nov 16 07:59	9° M 56'40	18°53'07
morning max el	8303 Dec 04 03:51	27°M06'03	18°11'37	asc. node	8304 Nov 17 04:56	10° M 49'17	
	8303 Dec 06 18:02	0° ∡ ¹			8304 Nov 29 12:21	0° ∡ 7	
morning set	8303 Dec 19 21:32	22° ∡ ¹06'35		morning set	8304 Dec 02 19:13	6° ∡ ¹22'35	
	8303 Dec 24 02:09	ರ°0					
				superior conj	8304 Dec 11 06:31	22° ₹ 53'41	1°13'45
superior conj	8303 Dec 29 09:49	9° る 47'20	0°48'02	minimum elong	8304 Dec 11 09:47	23° 渘 ¹09′13	1°13'31
minimum elong	8303 Dec 29 13:01	10° පි 01'46	0°47'44		8304 Dec 15 01:42	8°0	
desc. node	8304 Jan 05 00:33	21° る 23'47		max. Earth dist.	8304 Dec 18 07:18	5° る 50'27	1.39222 AU
max. Earth dist.	8304 Jan 06 01:08	23° る 08'07	1.41358 AU	desc. node	8304 Dec 21 21:33	12° る 06'26	
	8304 Jan 10 04:19	0° ≈		evening rise	8304 Dec 22 05:01	12° る 38'18	
evening rise	8304 Jan 10 23:14	1° ≈ 17'01			8305 Jan 01 22:42	0° ≈	
	8304 Jan 29 23:47	0° ∀			8305 Jan 24 06:08	0°) €	
evening max el	8304 Feb 13 19:57	18° ¥ 28'15	23°02'49	evening max el	8305 Jan 26 09:43	2° 升 13'45	24°22'40
retrograde	8304 Feb 24 02:37	24°) 33′39		retrograde	8305 Feb 06 18:43	8° ℋ 53'35	
asc. node	8304 Feb 27 06:59	23°) 43′16		evening set	8305 Feb 12 04:35	6°) 38′13	
evening set	8304 Feb 29 00:10	22° ∺ 31'55		asc. node	8305 Feb 13 04:05	5°) 43'55	
inferior conj	8304 Mar 05 09:19	16° ₩ 06'28	2°08'37	min. Earth dist.	8305 Feb 16 20:07	1° ₩ 19'19	0.68056 AU
minimum elong	8304 Mar 05 07:05	16° ∺ 14'12	2°07'59	inferior conj	8305 Feb 17 16:52	0° ∺ 09'37	1°26'34
min. Earth dist.	8304 Mar 04 23:59	16°) 38′43	0.68402 AU	minimum elong	8305 Feb 17 15:03	0° ₩ 15'47	1°26'00
morning rise	8304 Mar 10 13:56	9° ₩ 59'13			8305 Feb 17 19:44	30° Ŗ ≈	
direct	8304 Mar 14 23:37	8° 升 12'17		morning rise	8305 Feb 23 01:36	24° ≈ 08'44	
morning max el	8304 Mar 23 15:36	13°) (13′06	21°19'59	direct	8305 Feb 26 22:08	22° ≈ 43'46	
desc. node	8304 Apr 02 00:16	24°) 32′54		morning max el	8305 Mar 06 13:36	27° ≈ 02′29	20°05'59
	8304 Apr 05 22:34	0 ° $\mathbf{\Upsilon}$			8305 Mar 09 06:56	0° ℋ	
morning set	8304 Apr 23 23:48	27° Ƴ 08'41		desc. node	8305 Mar 19 21:12	14°) (17′33	
	8304 Apr 25 19:01	9° 8			8305 Mar 30 09:04	0 ° $\mathbf{\Upsilon}$	
max. Earth dist.	8304 Apr 30 22:07	8° 8 17'39	1.42314 AU	morning set	8305 Apr 02 23:06	5° Ƴ 30'06	
				max. Earth dist.	8305 Apr 13 07:05	21° Y 42'33	1.44022 AU
superior conj	8304 May 08 07:10	20° 8 41'34			8305 Apr 18 10:18	9° 8	
minimum elong	8304 May 08 12:17	21° 8 03'38	2°01'01				
	8304 May 13 14:49	Π $\circ 0$		superior conj	8305 Apr 18 23:14	0° 8 52'53	
evening rise	8304 May 19 14:31	10° Ⅱ 46'19		minimum elong	8305 Apr 18 23:59	0° 8 55'57	2°11'52
asc. node	8304 May 25 05:54	20° Ⅱ 53'49		evening rise	8305 May 01 22:42	22° 8 45'06	
	8304 May 30 18:22	0ං වෙ			8305 May 06 03:41	$\Pi^{\circ}0$	
evening max el	8304 Jun 05 00:40	6° © 39'54	18°07'33	asc. node	8305 May 12 02:58	9° ∏ 56′26	
retrograde	8304 Jun 11 19:02	10° © 06'16		evening max el	8305 May 19 13:57	19° ∏ 55'07	18°07'49
evening set	8304 Jun 14 06:50	9° © 38'36		retrograde	8305 May 25 23:39	23° Ⅱ 15'49	
inferior conj	8304 Jun 21 02:14	4°9545'35		evening set	8305 May 28 18:53	22° Ⅱ 35'54	
minimum elong	8304 Jun 21 05:17			inferior conj	8305 Jun 04 00:05	17° Ⅲ 23'44	
min. Earth dist.	8304 Jun 24 09:05	1°543'05	0.60372 AU	minimum elong	8305 Jun 04 02:33		
	8304 Jun 26 10:59	30°RⅡ		min. Earth dist.	8305 Jun 06 20:10	14° Ⅱ 24'07	0.62595 AU
morning rise	8304 Jun 28 01:00	28° Ⅲ 53'46		morning rise	8305 Jun 10 08:30	11° I I15'58	
desc. node	8304 Jun 28 23:46	28° Ⅲ 20'17		desc. node	8305 Jun 15 20:47	8° ∏ 50'40	
direct	8304 Jul 04 14:07	26° Ⅱ 48'40		direct	8305 Jun 17 02:55	8° Ⅱ 45'42	
	8304 Jul 13 06:54	0°95	250 15125	morning max el	8305 Jul 01 04:30	16° Ⅱ 48'17	27°53'20
morning max el	8304 Jul 18 22:00	4°9345'31	21~41.31		8305 Jul 12 02:19	0° ©	
. ,	8304 Aug 06 15:54	0° Ω			8305 Jul 30 09:28	0° N	
morning set	8304 Aug 20 07:28	25° Ω 31'01		morning set	8305 Aug 04 06:55	9° Ω 34'59	
asc. node	8304 Aug 21 05:18	27° Ω 25'10		asc. node	8305 Aug 08 02:17	17° Ω 28'36	1 22260 411
m at w	8304 Aug 22 10:33	0° Mp	1 21724 433	max. Earth dist.	8305 Aug 09 15:56	20° Ω 49'23	1.32269 AU
max. Earth dist.	8304 Aug 26 10:21	8° Mp 40'09	1.31734 AU		0205 4 11 21 41	250 0 40122	0027156
	0204 4 27 12 52	110% 000	1000121	superior conj	8305 Aug 11 21:41	25° Ω 40′20	
superior conj	8304 Aug 27 12:50	11° Mp 06'16	1°00'31	minimum elong	8305 Aug 11 20:03	25° Ω 31'22	0°37'30
minimum elong	8304 Aug 27 10:39	10° m 54'13	1°00'04		8305 Aug 13 21:13	0°M)	
evening rise	8304 Sep 03 06:50	25° m 54'40		evening rise	8305 Aug 18 18:23	10° m 36'55	
	8304 Sep 05 05:13	0∘ ರ			8305 Aug 28 14:32	0∘ ರ	

Section Subsect 1 10.10 1994.71 237750 1904.71 237750	desc. node	8305 Sep 11 19:42	19° ≏ 37'10		evening rise	8306 Aug 03 05:38	25° Ω 14'33	
coroning of covering set of 500 Sep 30 101 at 92 Sep 30 101 at 1				22057158	evening rise	•		
	Č			23 37 38	evening may el	-	•	22°18'41
min Earlatiding minimation and inferior cong in 1805 Cot 18 1876 21/23179 21/33290	•				evening max er			22 10 41
	•	=		0.56040 ATT	desc node			
minimal melong \$365 Cut 01 74 21 24 33 59 73 74 74 74 74 74 74 74						2		
man. Earth dist. \$305 Cut 17 0.599 17.2014 17.2017 17.	,				•	•		
direct 8360 Cet 9 0 2018 17% al 5% with minimum compa 8305 Set 9 10 0073 22°40 370 19% 57 minimum compa 8305 Set 9 10 0074 3°40 10	•			3 33 02	•			0.54040.411
morning max of as 380 No. 90 at 21.00 00 mb. 290.65 Per 18 09.38 morning set (380 No. 90 12.10 0 0 mb. morning set (380 No. 90 12.10 0 0 mb. morning set (380 No. 90 12.10 0 0 mb. morning set (380 No. 90 12.10 0 0 mb. morning set (380 No. 90 12.10 0 0 mb. morning set (380 No. 90 12.10 0 0 mb. morning set (380 No. 90 12.10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-							
ase ned 8305 No. 91 01:55 27% 27% 27% Horming rise 8300 Sep 27 13:16 287 by 15 25 17 morning rise 8300 Sep 27 10:10 287 by 15 25 17 morning rise 8300 Sep 27 10:10 287 by 17 ye 17 y				10056157	3			
Manufacing \$30 Nov 5 12 10 10 10 10 10 10 10	•			19 30 37	minimum elong			3 04 48
Manual	asc. node							
Sub Nov 21 10:16 0'F2 Superior conj					•	•	~	
Superior or	morning set				direct	•	-	
superior conj minimum elong max Farth dist 8305 Nov 3 1319 77.8% 873 13708 17.0% 873 13708 AU sass, node moning et al 306 Nov 10 10315 15.2% 5700 13073 17.2% 873 13708 AU sass, node moning et al 306 Nov 01 10315 15.2% 5700 13073 17.2% 873 13708 AU sass, node moning et al 306 Nov 01 10315 15.2% 13708 AU sass, node moning et al 306 Nov 08 15.00 20.7% 15.7% 15.2% 13.0% 10.0%		8305 Nov 21 10:16	0,×,					21022126
minimum elong 830 S Nov 3 et 31.9 6°-8°-8°-220 1°-100° 3 1°-100° 3 0°-100° 1 0°-100° 1 0°-100° 3 0°-100° 1 0°-100°		020531 24 17 40	60.740140	1020124	•			21°22′36
max. Earth dist					asc. node			
evening rise 8305 Dec 04 07-49 8305 Dec 07 04-47 8305 Dec 07 04-47 8305 Dec 07 04-47 8305 Dec 08 18:34 25f237 8306 Nov 08 15:09 8306 Nov 08 16:09 8306 Nov 13 0:10 8306 Nov 08 16:09 8306 Nov 08 16:09 8306 Nov 13 0:10 8306 Nov 08 16:09 8306 Nov 08 16:09 8306 Nov 08 16:09 8306 Nov 13 0:10 8306 Nov 08 16:09	•							
Mathematical Math				1.3/08/ AU	morning set	8306 Nov 01 08:45	5°11L41'52	
Gestande Sart Sar	evening rise							
Cevening max el 3306 Jun 26 2330 0%								
evening max el retorgande 8306 Jan 08 22:53 16°se01'19 25°s626'2 evening rise 8306 Nov 17 0.410 7°978531 82786456'2 evening rise 8306 Nov 17 0.410 7°978531 82876456'2 evening rise 8306 Nov 17 0.410 7°978531 82876456'2 evening rise 8306 Nov 17 0.410 7°978531 82876456'2 evening rise 8306 Nov 2 15.35 2 23°26/80802 82876456'2 evening rise 8306 Nov 2 15.35 2 23°26/80802 82876456'2 evening rise 8306 Rov 2 15.13 2 14°se141 10 7°3612 82876456'2 evening rise 8306 Rov 2 15.13 2 14°se141 10 7°3612 82876456'2 evening rise 8306 Rov 2 15.13 2 14°se14 10 7°8612 8306 Rov 2 15.13 10 10 20°56 10 21.19 7°se1348 8306 Rov 17 12:38 8°se1844 8306 Rov 18 0.21 19 7°se1348 8306 Mor 18 0.21 19 19 19 19 19 19 19 19 19 19 19 19 19	desc. node							
Petrograde 8306 Jan 21 0.06.08 23%-04/45 20%-3809 20%-			* -		max. Earth dist.			1.35167 AU
eventing set \$300 Jan 27 04.45 20% 8380 conde \$330 Jan 31 01.01 16% 8314 conde \$330 Jan 31 01.01 16% 8314 conde \$330 Jan 31 01.01 16% 8314 conde \$330 Jan 31 01.01 12% 8345 conde \$330 Jan 31 01.01 conde co	•			25°36'26		8306 Nov 13 01:40		
Second Say S	•		23° ≈ 04'56		•			
minimum dong 8306 Feb 1 21.23 15 sep 14 sep 11 sep 18 sep	evening set	8306 Jan 27 04:45	20° ≈ 38′09		desc. node	8306 Nov 25 15:36		
Since Sinc	asc. node	8306 Jan 31 01:10	16° ≈ 31'45			8306 Nov 29 20:15		
minimum elong 8306 Feb 1 20-29 14% al 411 0°3612 retrograde 8307 Ian 0.4 12-09 7°∞02'04 4°∞27'35	min. Earth dist.	8306 Jan 31 13:15	15° ≈ 53'55	0.67329 AU	evening max el	8306 Dec 22 12:11	29° る 45'30	26°36'48
moming rise 8306 Feb 17 12:38 8°≈18'44 evening set 8307 Jan 15 01:06 4°≈27'35 direct 606233 AU min. Earth dist. 8307 Jan 15 01:07 0°≈818'10 0.66233 AU greatest brilliane 8306 Feb 17 19:26 11°≈60'205 19°06'33 11°≈0'205 19°06'33 8307 Jan 15 07:07 30°85 28°80'760 20°21'14 desc. node 8306 Mar 03 07:40 29°≈60'780 20°8 -0.7m minimum elong 8307 Jan 16 20:33 28°80'760 20°21'14 desc. node 8306 Mar 13 01:31 14°¥628'13 asc. node 8307 Jan 17 22:13 26°56'320 20°80'12 max. Earth dist. 8306 Mar 23 06:01 0°°° asc. node 8307 Jan 17 22:13 22°36'03 22°36'03 superior conj 8306 Mar 29 16:03 10°°0'5'24 2°04'00 morning set 8307 Feb 01 07:51 25°5'6'8'10 18°23'19 evening rise 8306 Apr 13 08:40 3°0'4'4'13 1.45132 AU morning set 8307 Feb 24 21:33 0°%' asc. node 8306 Apr 13 08:40 3°0'4'4'13 1.45132 AU morning max el 8307 Feb 24 21:33 0°%' 24°≈80'30 <td>inferior conj</td> <td>8306 Feb 01 21:23</td> <td>14°≈11'18</td> <td>0°36'26</td> <td></td> <td>8306 Dec 22 18:14</td> <td>0°≈</td> <td></td>	inferior conj	8306 Feb 01 21:23	14° ≈ 11'18	0°36'26		8306 Dec 22 18:14	0° ≈	
direct 8306 Feb 10 21:19 γ°≈1348 min. Earth dist. 8307 Jan 15 07.16 0°≈18*10 066233 AU moming max el 8306 Feb 1 7:226 11°≈0205 19°0633 8307 Jan 15 07.17 30°R°S -70° greatest brilliancy 8306 Mar 03 07:40 29°≈09°S -70° inferior conj 8307 Jan 16 20:53 28°80°156 -0°21'14 desc. node 8306 Mar 13 01:31 14°¥08843 moming max el 8307 Jan 17 22:13 26°55'200 30°8°C -0°21'14 30°8°C 30°8°C 30°8°C 26°55'200 30°8°C 30°C	minimum elong	8306 Feb 01 20:29	14° ≈ 14'11	0°36'12	retrograde	8307 Jan 04 12:09	7° ≈ 02'04	
moming max el greatest prilling max el gradest prilling max el greatest prilling max el greatest prilling max el gradest prilling max el moming set a 306 Mar 03 20/52 0°F4 moming set a 306 Mar 13 01.31 14°F408°43 moming set a 306 Mar 23 06.01 0°°P′ direct a 8307 Jan 25 19.01 21°C5380 l 22°C500°3 22°C500°3 moming set a 306 Mar 23 06.01 0°°P′ direct a 8307 Jan 25 19.01 21°C5380 l 22°C500°3 22°C500°3 moming max el a 306 Mar 23 06.01 0°°P′ d'13 1.45132 AU moming max el 8307 Feb 01 07.51 25°C60810 18°23'19 a 300 Feb 03 11.21 0°∞ 22°C500°3 12°C10°3 12°	morning rise	8306 Feb 07 12:38	8° ≈ 18'44		evening set	8307 Jan 10 22:54	4° ≈ 27'35	
greatest brilliancy 8306 Mar 03 07.40 29°80978 0°7m inferior conj 8307 Jan 16 20.53 28°506765 0°21'14 desc. node 8306 Mar 06 1806 4°4924'17 asc. node 8307 Jan 17 22:13 26°53'20' 0°20' morning set 8306 Mar 23 06:01 0°° morning rise 8307 Jan 22 20:56 22°5260'3 1°23'09' max. Earth dist 8306 Mar 26 22:34 5°° 1°° 1°13'13 1.43132 AU morning maxel 8307 Feb 05 11:21 0°2° 1°8'23'19 superior conj 8306 Mar 29 16:30 10°° 2°0400 morning set 8307 Feb 05 11:21 0°2 2°57808'10 18°23'19 evening rise 8306 Mar 29 16:30 10°° 2°0420 morning set 8307 Feb 21 10·10 24°242'173 1°24'24'17 evening rise 8306 Mar 29 16:30 3°84'54'5 2°04'10 830'7 Feb 21 10·10 24°242'24'27'0 2°04'10 830'7 Feb 21 10·10 24°24'24'17'0 2°04'14'1 1°13'01'6 830'7 Feb 21 10·10 24°24'24'17'0 2°04'14'1 1°13'01'6 830'14'1 2°13'30'1 8'13'12'1 8'13'12'1 <t< td=""><td>direct</td><td>8306 Feb 10 21:19</td><td>7°≈13'48</td><td></td><td>min. Earth dist.</td><td>8307 Jan 15 01:06</td><td>0°≈18′10</td><td>0.66233 AU</td></t<>	direct	8306 Feb 10 21:19	7° ≈ 13'48		min. Earth dist.	8307 Jan 15 01:06	0° ≈ 18′10	0.66233 AU
desc. node 8306 Mar 03 20:52 0°H minimum elong 8307 Jan 16 21:28 28°B0612 0°20'50 desc. node 8306 Mar 06 18:06 4°H24'17 asc. node 8307 Jan 17 22:13 26°G3320	morning max el	8306 Feb 17 19:26	11° ≈ 02'05	19°06'33		8307 Jan 15 07:17	30°₽₹	
desc. node 8306 Mar 16 18:06	greatest brilliancy	8306 Mar 03 07:40	29° ≈ 09'58	-0.7m	inferior conj	8307 Jan 16 20:53	28° る 07'56	-0°21'14
morning set 8306 Mar 13 01:31 14°H08'43 morning rise 8307 Jan 22 20:56 22°E26'03 max. Earth dist. 8306 Mar 26 22:34 5°P4'13 1.45132 AU morning max el 8307 Jan 25 19:21 21°E38'01 18°23'19 max. Earth dist. 8306 Mar 29 16:03 10°P05'24 2°04'00 morning set 8307 Feb 21 16:02 24°≈44'720 24°×44'720 24°×		8306 Mar 03 20:52	0° ∀		minimum elong	8307 Jan 16 21:28	28° පි 06'12	0°20'50
Max. Earth dist. 8306 Mar 23 06.01 0°Ψ morning max el 8307 Jan 25 19.21 21°₹38′01 18°23′19	desc. node	8306 Mar 06 18:06	4°) (24'17		asc. node	8307 Jan 17 22:13	26° る 53'20	
Max. Earth dist. 8306 Mar 26 22:34 5°\$\times 74*13 1.45132 AU morning max el 8307 Feb 01 0.75:1 25°\$\times 830*10 0°\$\times 830 Feb 01 0.75:1 0°\$\times 830 Feb 01 0.75:	morning set	8306 Mar 13 01:31	14°) €08'43		morning rise	8307 Jan 22 20:56	22° පි 26'03	
superior conj 8306 Mar 2 9 16.03 10°Y05′24 2°04′00 morning set 8307 Feb 21 04:02 24°≈803′30 - California minimum elong 8306 Apr 11 01:30 0°8 desc. node 8307 Feb 21 04:02 24°≈803′30 - California evening rise 8306 Apr 11 01:30 0°8 superior conj 8307 Feb 21 15:02 24°≈84′370 - California asc. node 8306 Apr 12 09:02 28°827′28 superior conj 8307 Mar 08 20:59 18°852′36 -1°36′16 asc. node 8306 Apr 20 04:05 0°E minimum elong 8307 Mar 08 11:21 18°%14′57 1°36′16 evening max el 8306 May 03 03:04 3°E230 18°26′33 max. Earth dist. 8307 Mar 08 11:21 18°%14′57 1°36′16 evening set 8306 May 18 11:02 0°E28′38 3°1′12 greatest brillianey 8307 Apr 15 23:34 0°°Y evening set 8306 May 18 11:02 0°E28′38 3°1′12 greatest brillianey 8307 Apr 15 21:07 16°8′8′172 18°8′570 18°8′570 18°8′570 18°8′8′172 18°8′574 18°8′570 18°		8306 Mar 23 06:01	$0^{\circ}\mathbf{\Upsilon}$		direct	8307 Jan 25 19:21	21° පි 38'01	
superior conj 8306 Mar ≥ 9 16.03 10°Y05′24 -2°04′00 morning set 8307 Feb ≥ 0 11.20 24°≈03′33 ∪ 24°≈03′30 minimum elong 8306 Apr ≥ 9 09.47 9°Y40′36 ≥ 2°03′42 desc. node 8307 Feb ≥ 1 04.02 24°≈03′30 ∨ evening rise 8306 Apr ≥ 10 10.30 0°B superior conj 8307 Mar 08 20.59 18°95′236 -1°36′16 1°36′16 asc. node 8306 Apr ≥ 0 00.02 22°8′27′28 superior conj 8307 Mar 08 20.59 18°9′5236 -1°36′16 1°35′17 evening max el 8306 May 10 04.05 0°°L minimum elong 8307 Mar 08 11.21 18°9′143′1 1.45525 AU evening max el 8306 May 12 16.04 3°°L78′35 max. Earth dist. 8307 Mar 08 11.21 18°9′143′1 1.45525 AU retrograde 8306 May 12 16.04 3°°L78′35 evening rise 8307 Mar 15 23:34 0°°M 1.45525 AU inferior conj 8306 May 18 11.02 0°°L28′38 3°1712 greatest brilliancy 8307 Apr 10 23:31 29°°46′41 0.8m min. Earth dist. 8306 May 20 16.26 2°°8′81′81 0°°L2 asc. node	max. Earth dist.	8306 Mar 26 22:34	5° Ƴ 47'13	1.45132 AU	morning max el	8307 Feb 01 07:51	25° පි 08'10	18°23'19
minimum elong 8306 Mar 29 99:47 99°Y40'36 2°03'42 desc. node 8307 Feb 21 15:02 24°≈41'20 3°14'20 3°14'30 3°14'34'34 3°14'34'34 3°14'34'34 3°14'34'34 3°14'34'34 3°14'34'34 3°14'34'34 3°14'34'34 3°14'34'34 3°14'34'34 3°14'34'34 3°14'34'34 3°14'34'34 3°14'34'34 3°14'34'34'34'34'34'34'34'34'34'34'34'34'34					-	8307 Feb 05 11:21	0° ≈	
evening rise asc. node asc	superior conj	8306 Mar 29 16:03	10° Ƴ 05'24	-2°04'00	morning set	8307 Feb 21 04:02	24°≈03'30	
evening rise	minimum elong	8306 Mar 29 09:47	9° Ƴ 40'36	2°03'42	desc. node	8307 Feb 21 15:02	24°≈47'20	
Sevening rise Ray of Apr 13 08:40 3°B4545 Superior conj Ray of Apr 12 18°B4527 18°B4527 18°B4527 18°B4527 18°B41457 18°B4		8306 Apr 11 01:30	0°8			8307 Feb 24 21:33	0°) €	
Sac. node 8306 Apr 29 00:02 28°B27'28 superior conj 8307 Mar 08 20:59 18°K52'36 -1°36'16 Sa06 Apr 30 04:05 0°H minimum elong 8307 Mar 08 11:21 18°K14'57 1°35'17 evening max el 8306 May 03 02:47 3°H23'02 18°26'33 max. Earth dist. 8307 Mar 09 17:54 20°K14'31 1.45525 AU retrograde 8306 May 09 13:32 6°H25'11 evening set 8306 May 12 16:04 5°H58'35 evening rise 8307 Mar 12 19:15 13°Y60'34 inferior conj 8306 May 18 11:02 0°H28'38 3°17'12 greatest brilliancy 8307 Apr 04 02:39 0°B minimum elong 8306 May 18 12:14 0°H25'04 3°16'57 asc. node 8307 Apr 15 21:07 16°B17'25 min. Earth dist. 8306 May 20 16:26 27°B51'51 0.64584 AU evening max el 8307 Apr 16 12:38 16°B57'49 19°02'53 direct 8306 May 30 23:46 21°B28'54 evening set 8307 Apr 23 09:04 20°B48'06 direct 8306 May 30 23:46 21°B28'54 evening set 8307 Apr 23 09:04 20°B48'06 direct 8306 Jul 13 14:11 29°B26'31 27°23'19 minimum elong 8307 May 02 07:28 13°B53'59 3°23'27 morning max el 8306 Jul 13 14:11 29°B26'31 27°23'19 minimum elong 8307 May 03 12:7 11°B53'04 0.66197 AU morning set 8306 Jul 18 21:48 23°B11'04 direct 8307 May 07 19:05 7°B35'51 morning set 8306 Jul 25 23:15 7°R34'33 max. Earth dist. 8307 May 07 19:05 7°B35'51 morning set 8306 Jul 27 0:28 39°R56'51 0°11'20 morning set 8307 Jul 10 0:53 0°H superior conj 8306 Jul 27 0:34 9°R53'50 0°11'04 max. Earth dist. 8307 Jul 10 0:21 13°E53'50 1.34782 AU behind sun begin 8306 Jul 26 21:34 9°R53'50 0°11'04 max. Earth dist. 8307 Jul 0°0.01 0.01:21 13°E53'50 1.34782 AU behind sun begin 8306 Jul 26 21:34 9°R53'50 0°11'04 max. Earth dist. 8307 Jul 0°0.01 0.01:21 13°E53'50 1.34782 AU behind sun begin 8306 Jul 26 21:34 9°R53'50 0°11'04 max. Earth dist. 8307 Jul 0°0.01 0.01:21 13°E53'50 1.34782 AU behind sun	evening rise	-						
8306 Apr 30 04:05 0°H minimum elong 8307 Mar 08 11:21 18°\(\) 14'57 1°35'17 evening max el 8306 May 03 02:47 3°\(\) 123'22 18°26'33 max. Earth dist. 8307 Mar 09 17:54 20°\(\) 14'31 1.45525 AU retrograde 8306 May 09 13:32 6°\(\) 152'11 evening set 8307 Mar 15 23:34 0°\(\) 0°\(\) evening set 8306 May 12 16:04 5°\(\) 158'35 evening rise 8307 Mar 24 19:15 13°\(\) 5'\(\) 5''05'34 inferior conj 8306 May 18 12:14 0°\(\) 12'5'04 3°16'57 8307 Apr 03 23:13 29°\(\) 746'41 -0.8m minimum elong 8306 May 18 12:14 0°\(\) 12'5'04 3°16'57 8307 Apr 16 12:38 16°\(\) 5''749 19°\(\) 2''5'3 min. Earth dist. 8306 May 18 12:14 0°\(\) 12'5'15 0.64584 AU evening max el 8307 Apr 16 12:38 16°\(\) 5''749 19°\(\) 2''53' morning rise 8306 May 20 16:26 27°\(\) 5'15'1 0.64584 AU evening set 8307 Apr 23 09:04 20°\(\) 4''5'35' 0°\(\) 2''84'806 direct 8306 May 30 23:46 21°\(\) 2''85'324 evening set 8307 Apr 23 09:04 20°\(\) 4''85'35' 3°23'27 morning max el 8306 Jun 21''747 21°\(\) 5'32'24 inferior conj 8307 May 02 07:28 13°\(\) 5'35'59 3°23'27 morning set 8306 Jun 21''14 29°\(\) 2''23'19 minimum elong 8307 May 02 07:21 13°\(\) 5'35'51 3''23'19 morning rise 8307 May 02 07:21 13°\(\) 5'35'51 3''23'19 morning rise 8307 May 03 21:27 11°\(\) 5'300 0.66197 AU 3'''15''15''15''15''15''15''15''15''15''	•	-	28° 8 27'28		superior conj	8307 Mar 08 20:59	18° ¥ 52'36	-1°36'16
evening max el 8306 May 03 02:47 3° II 23'02 18° 26'33 max. Earth dist. 8307 Mar 09 17:54 20° H 14'31 1.45525 AU retrograde 8306 May 12 16:04 5° II 58'35 evening rise 8307 Mar 15 23:34 0°° V evening rise 8306 May 12 16:04 5° II 58'35 evening rise 8307 Mar 24 19:15 13° Y° 50'34 evening rise 8306 May 18 11:02 0° II 28'38 3° 17'12 greatest brilliancy 8307 Apr 03 23:13 29° Y46'41 -0.8m minimum elong 8306 May 18 12:14 0° II 25'04 3° 16'57 8307 Apr 04 02:39 0° B		-						
retrograde 8306 May 09 13:32 6° Π52'11	evening max el	-		18°26'33		8307 Mar 09 17:54		
evening set 8306 May 12 16:04 5°IL58'35 evening rise 8307 Mar 24 19:15 13°Y50'34 16:04 0°IL28'38 3°17'12 greatest brilliancy 8307 Apr 03 23:13 29°Y46'41 -0.8m	•	•						
Minferior conj 8306 May 18 11:02 0°	•	•			evening rise			
minimum elong 8306 May 18 12:14 0°H25'04 3°16'57 8307 Apr 04 02:39 0°B 16°B7'25 min. Earth dist. 8306 May 18 20:43 30°RB asc. node 8307 Apr 15 21:07 16°B7'25 16°B7'25 min. Earth dist. 8306 May 20 16:26 27°B51'51 0.64584 AU evening max el 8307 Apr 16 12:38 16°B5'749 19°02'53 morning rise 8306 May 30 23:46 21°B28'54 evening set 8307 Apr 26 19:10 19°B40'05 desc. node 8306 Jun 21 7:47 21°B53'24 inferior conj 8307 May 02 07:28 13°B53'59 3°23'27 morning max el 8306 Jun 13 14:11 29°B26'31 27°23'19 minimum elong 8307 May 02 07:21 13°B53'59 3°23'19 morning set 8306 Jul 18 21:48 23°S11'04 morning rise 8307 May 03 21:27 11°B53'00 0.66197 AU max. Earth dist. 8306 Jul 22 07:40 0°Ω desc. node 8307 May 14 03:31 4°B49'52 2°C34'13 asc. node 8306 Jul 23 13:50 2°Ω34'42 1.33286 AU morning max el 8307 Jun 28 16:11	•	-	0° Ⅱ 28'38	3°17'12	•			-0.8m
Min. Earth dist. 8306 May 18 20:43 30°R 30					,	-	0°8	
min. Earth dist. 8306 May 20 16:26	8	-			asc. node	-	_	
morning rise 8306 May 24 07:31 24°813'03 retrograde 8307 Apr 23 09:04 20°848'06 direct 8306 May 30 23:46 21°828'54 evening set 8307 Apr 26 19:10 19°840'05 desc. node 8306 Jun 02 17:47 21°853'24 inferior conj 8307 May 02 07:28 13°853'59 3°23'27 morning max el 8306 Jun 14 03:18 0°Π minimum elong 8307 May 02 07:21 13°854'21 3°23'19 morning set 8306 Jul 18 21:48 0°Π morning rise 8307 May 02 07:21 11°853'00 0.66197 AU max. Earth dist. 8306 Jul 22 07:40 0°Φ direct 8307 May 07 19:05 7°835'51 max. Earth dist. 8306 Jul 23 13:50 2°Ω34'42 1.33286 AU morning max el 8307 May 20 14:46 7°805'04 max. Earth dist. 8306 Jul 25 23:15 7°Ω34'33 8307 Jul 28 16:11 0°Π superior conj 8306 Jul 27 02:08 9°Ω56'51 0°11'20 morning set 8307 Jul 06 01:21 13°953'50 1.34782 AU behind sun begin 8306 Jul 26 21:34 9°Ω32'34	min. Earth dist.	-		0.64584 AU		-		19°02'53
direct 8306 May 30 23:46 21°828'54 evening set 8307 Apr 26 19:10 19°840'05 desc. node desc. node 8306 Jun 02 17:47 21°853'24 inferior conj 8307 May 02 07:28 13°853'59 3°23'27 morning max el 8306 Jun 13 14:11 29°826'31 27°23'19 minimum elong 8307 May 02 07:21 13°854'21 3°23'19 8306 Jul 14 03:18 0°Π minimum elong 8307 May 03 21:27 11°853'00 0.66197 AU 8306 Jul 20 06 00:24 0°Φ morning rise 8307 May 07 19:05 7°835'51 0.66197 AU morning set 8306 Jul 22 07:40 0°Φ desc. node 8307 May 14 03:31 4°849'52 4°849'52 8306 Jul 22 07:40 0°Ω desc. node 8307 May 20 14:46 7°805'04 7°805'04 max. Earth dist. 8306 Jul 23 13:50 2°Ω34'42 1.33286 AU morning max el 8307 Jun 10 01:53 0°Π superior conj 8306 Jul 25 23:15 7°Ω34'33 morning set 8307 Jun 28 16:11 0°Φ superior conj 8306 Jul 27 02:08 9°Ω56'51					•	-		
desc. node 8306 Jun 02 17:47 21°853'24 inferior conj 8307 May 02 07:28 13°85'359 3°23'27 morning max el 8306 Jun 13 14:11 29°826'31 27°23'19 minimum elong 8307 May 02 07:21 13°85'4'21 3°23'19 minimum elong 8306 Jun 14 03:18 0°	•	•			•	*		
Morning max el 8306 Jun 13 14:11 29°826'31 27°23'19 minimum elong 8307 May 02 07:21 13°85'421 3°23'19 min. Earth dist. 8307 May 03 21:27 11°85'300 0.66197 AU 8306 Jul 06 00:24 0°\$ morning rise 8307 May 03 21:27 11°85'300 0.66197 AU 8306 Jul 22 07:40 0°\$ morning rise 8307 May 14 03:31 4°849'52 4°8		-			-	-		3°23'27
May 1 14 03:18 0° Min. Earth dist. 8307 May 03 21:27 11° 853′00 0.66197 AU				27°23'19	-	•		
morning set 8306 Jul 18 21:48 23°\$11'04 direct 8307 May 07 19:05 7°\$35'51 direct 8307 May 14 03:31 4°\$49'52 4°\$49'52 desc. node 8307 May 20 14:46 7°\$05'04 max. Earth dist. 8306 Jul 23 13:50 2°\$34'42 1.33286 AU morning max el 8307 May 27 00:43 12°\$29'52 26°24'13 asc. node 8306 Jul 25 23:15 7°\$34'33	morning max cr			27 23 17	•			
Morning set 8306 Jul 18 21:48 23°S11'04 direct 8307 May 14 03:31 4°849'52 desc. node 8307 May 20 14:46 7°805'04 desc. node 8307 May 20 14:46 7°805'04 desc. node 8307 May 27 00:43 12°829'52 26°24'13 desc. node 8306 Jul 25 23:15 7°Ω34'33 8307 Jun 10 01:53 0°I 8307 Jun 28 16:11 0°S superior conj 8306 Jul 27 02:08 9°Ω56'51 0°11'20 morning set 8307 Jul 02 00:48 6°S10'30 desc. node 8306 Jul 27 01:34 9°Ω53'50 0°11'04 max. Earth dist. 8307 Jul 06 01:21 13°S53'50 1.34782 AU desc. node 8307 Jul 06 01:21 13°S53'50 1.34782 AU desc. node 8307 Jul 06 01:21 13°S53'50 1.34782 AU desc. node 8307 Jul 06 01:21 13°S53'50 1.34782 AU desc. node 8307 Jul 06 01:21 13°S53'50 1.34782 AU desc. node 8307 Jul 06 01:21 13°S53'50 1.34782 AU desc. node 8307 Jul 06 01:21 13°S53'50 1.34782 AU desc. node 8307 Jul 06 01:21 13°S53'50 1.34782 AU desc. node 8307 Jul 06 01:21 13°S53'50 1.34782 AU desc. node 8307 Jul 06 01:21 13°S53'50 1.34782 AU desc. node 8307 Jul 06 01:21 13°S53'50 1.34782 AU desc. node 8307 Jul 06 01:21 13°S53'50 1.34782 AU desc. node 8307 Jul 06 01:21 13°S53'50 1.34782 AU desc. node 8307 Jul 06 01:21 13°S53'50 1.34782 AU desc. node 8307 Jul 06 01:21 13°S53'50 1.34782 AU 1.						•		0.0017,710
Max. Earth dist. 8306 Jul 22 07:40 0°Ω desc. node 8307 May 20 14:46 7°805'04 max. Earth dist. 8306 Jul 23 13:50 2°Ω34'42 1.33286 AU morning max el 8307 May 27 00:43 12°829'52 26°24'13 asc. node 8306 Jul 25 23:15 7°Ω34'33 8307 Jun 10 01:53 0°I 8307 Jun 28 16:11 0°S superior conj 8306 Jul 27 02:08 9°Ω56'51 0°11'20 morning set 8307 Jul 02 00:48 6°S10'30 6°S10'30 minimum elong 8306 Jul 27 01:34 9°Ω53'50 0°11'04 max. Earth dist. 8307 Jul 06 01:21 13°S53'50 1.34782 AU 1.	morning set				•	•		
max. Earth dist. 8306 Jul 23 13:50 2°Ω34'42 1.33286 AU morning max el 8307 May 27 00:43 12°829'52 26°24'13 asc. node 8306 Jul 25 23:15 7°Ω34'33	morning set					•		
Superior conj 8306 Jul 25 23:15 7° Ω34'33	may Farth diet			1 33286 ATT		•		26°24'12
Superior conj 8306 Jul 27 02:08 9° \$\Omega\$56'51 0°11'20 morning set 8307 Jul 02 00:48 6° \$\omega\$10'30 minimum elong 8306 Jul 27 01:34 9° \$\Omega\$53'50 0°11'04 max. Earth dist. 8307 Jul 06 01:21 13° \$\omega\$53'50 1.34782 AU behind sun begin 8306 Jul 26 21:34 9° \$\Omega\$32'34				1.55200 AU	morning max ci			20 24 13
superior conj 8306 Jul 27 02:08 9° € 56'51 0°11'20 morning set 8307 Jul 02 00:48 6° © 10'30 minimum elong 8306 Jul 27 01:34 9° € 53'50 0°11'04 max. Earth dist. 8307 Jul 06 01:21 13° © 53'50 1.34782 AU behind sun begin 8306 Jul 26 21:34 9° € 32'34 9° €	asc. noue	6500 Jul 25 25:15	1 063433					
minimum elong 8306 Jul 27 01:34 9° Ω 53'50 0°11'04 max. Earth dist. 8307 Jul 06 01:21 13° \mathfrak{S} 53'50 1.34782 AU behind sun begin 8306 Jul 26 21:34 9° Ω 32'34	superior con-	8306 Int - 27 02:00	00 056151	0°11!20	morning set			
behind sun begin 8306 Jul 26 21:34 9° Ω 32'34					-			1 2/702 411
· · · · · · · · · · · · · · · · · · ·	•			U 11 U4	max. Earth tist.	0507 Jul 00 01.21	اد دد ت د ۱	1.54/02 AU
ocinina sun cha 6500 Jul 27 05.54 10 6€15 07 superior conj 850/ Jul 10 25:48 25°€949'36 -0°18'32	_				superior coni	9307 Jul 10 22:40	23.0240127	0010122
	ocimia sun ena	6500 Jul - 27 U5:54	10 06130/		superior conj	0507 Jul 10 25:48	25 2949 36	-0 16 32

minimum elong	8307 Jul 11 00:52	23° © 55'02	0°18'28	superior conj	8308 Jun 23 11:48	7° © 11'03	
asc. node	8307 Jul 12 20:15	27° © 39'24		minimum elong	8308 Jun 23 14:52	7° 5 26'09	0°49'51
	8307 Jul 13 23:14	0° Ω		asc. node	8308 Jun 28 17:16	17°539'18	
evening rise	8307 Jul 18 14:36	9° Ω 41'55		evening rise	8308 Jul 01 19:01	23° © 52'29	
	8307 Jul 29 08:30	0° m	20040152		8308 Jul 04 20:48	0°N	10007100
evening max el	8307 Aug 06 11:45	10° m 38'00	20°48'53	evening max el	8308 Jul 18 22:42		19°37'22
desc. node	8307 Aug 16 13:53	16° Mp 15'07		retrograde	8308 Jul 28 18:13	26° Ω 45'42	
retrograde evening set	8307 Aug 18 00:13 8307 Aug 20 03:58	16° Mp 20'14		evening set desc. node	8308 Jul 30 14:35	26° Ω 36'08 25° Ω 47'02	
inferior conj	8307 Aug 29 09:34	16° Mp 09'02 12° Mp 12'09	2942!10		8308 Aug 02 10:59	23 δ (47 02 22° Ω 32'21	1940/25
minimum elong	8307 Aug 29 09:34 8307 Aug 29 00:16	12° m) 25'23	3°40'30	inferior conj minimum elong	8308 Aug 08 10:06 8308 Aug 08 05:07		1°47'38
min. Earth dist.	8307 Aug 20 00:10 8307 Aug 30 05:19	12 my 23 23 11° my 44'01	0.54718 AU	min. Earth dist.	8308 Aug 10 17:27	21°Ω05'23	0.55454 AU
morning rise	8307 Sep 06 20:38	8° mp 13'55	0.54710710	morning rise	8308 Aug 16 17:19	18° Ω 04'16	0.55454710
direct	8307 Sep 10 19:18	7° Mp 40'36		direct	8308 Aug 21 10:59	17° Ω 14'13	
morning max el	8307 Sep 23 21:07	13° m 56'35	23°04'21	morning max el	8308 Sep 04 09:42	24°Ω11'57	24°49'44
	8307 Oct 06 03:26	0∘ ⊽			8308 Sep 09 17:15	0° m/	
asc. node	8307 Oct 08 19:51	4° £ 39'54		asc. node	8308 Sep 24 16:50	23° m 52'15	
morning set	8307 Oct 16 19:57	20° £ 31'31			8308 Sep 27 18:27	0∘ ⊽	
C	8307 Oct 21 05:53	0° M .		morning set	8308 Sep 30 07:43	5° ≏ 20'48	
				Č	•		
superior conj	8307 Oct 23 19:40	5°M32'47	1°41'13	superior conj	8308 Oct 07 04:42	20° ≏ 19'47	1°36'47
minimum elong	8307 Oct 23 19:23	5°ML31'18	1°41'19	minimum elong	8308 Oct 07 03:23	20° £ 12'34	1°36'45
max. Earth dist.	8307 Oct 26 18:59	11°M51'02	1.33613 AU	max. Earth dist.	8308 Oct 08 21:32	24° ഫ 02'35	1.32503 AU
evening rise	8307 Oct 31 14:11	21°MJ38'18			8308 Oct 11 16:07	0° M ₊	
	8307 Nov 04 22:49	0°⊀		evening rise	8308 Oct 14 10:25	5°M45'36	
desc. node	8307 Nov 12 12:40	13° ∡ 16′29			8308 Oct 27 13:05	0°⊀	
	8307 Nov 23 16:13	0° ප		desc. node	8308 Oct 29 09:46	3° ≯ 00'38	
evening max el	8307 Dec 05 00:58	13° る 15'45	27°16'33	evening max el	8308 Nov 16 11:52		27°29'03
retrograde	8307 Dec 18 12:17	20° る 36'20			8308 Nov 20 20:33	0°ಕ	
evening set	8307 Dec 25 08:50	18° ろ 00'15		retrograde	8308 Nov 30 05:53	3° 云 38'43	
min. Earth dist.	8307 Dec 29 05:29	14°る24'34	0.64782 AU	evening set	8308 Dec 07 07:47	1° ට 09'46	
inferior conj	8307 Dec 31 13:00	11°る53'32			8308 Dec 08 20:29	30°₹ ⋌ 7	0.62015.137
minimum elong	8307 Dec 31 15:36	11°る46'28	1°24'20	min. Earth dist.	8308 Dec 11 00:37	28° ₹ 04'05	0.63017 AU
asc. node	8308 Jan 04 19:16	7°る45'32 6°る25'03		inferior conj	8308 Dec 13 19:02	25° ₹21'48	
morning rise direct	8308 Jan 06 23:51 8308 Jan 09 13:53	5° る 50'12		minimum elong	8308 Dec 13 23:55 8308 Dec 20 18:05	25° ₹ 09'49 20° ₹ 09'36	2°32'33
morning max el	8308 Jan 16 00:16	9° る 13'06	17°56'51	morning rise asc. node	8308 Dec 20 18:03 8308 Dec 21 16:18	20 x ·09 30 19° x 53′27	
morning max cr	8308 Jan 30 05:55	9°≈	17 30 31	direct	8308 Dec 21 10:18 8308 Dec 23 02:05	19° × 744'04	
morning set	8308 Feb 02 12:01	5°≈25'24		morning max el	8308 Dec 29 17:37		17°47'48
desc. node	8308 Feb 08 11:58	15°≈21'24		morning max cr	8309 Jan 04 03:29	0°පි	17 47 40
dese. node	0500100 00 11.50	10 10 2121		morning set	8309 Jan 14 21:01	17° る 59'36	
superior conj	8308 Feb 16 09:10	28°≈06'40	-0°54'55		8309 Jan 21 19:13	0° ≈	
minimum elong	8308 Feb 16 02:49	27° ≈ 41'22		desc. node	8309 Jan 25 08:58	6°≈02'42	
S	8308 Feb 17 13:38	0°) €					
max. Earth dist.	8308 Feb 20 13:26	4°) 43′55	1.45171 AU	superior conj	8309 Jan 26 19:20	8° ≈ 26′01	-0°10'29
evening rise	8308 Mar 03 11:39	23°) 16′11		minimum elong	8309 Jan 26 18:16	8° ≈ 21'35	0°10'10
	8308 Mar 07 21:00	0 ° $\mathbf{\Upsilon}$		behind sun begin	8309 Jan 26 11:00	7° ≈ 51'24	
greatest brilliancy	8308 Mar 17 23:07	15° Ƴ 10'58	-0.6m	behind sun end	8309 Jan 27 01:31	8° ≈ 51'43	
	8308 Mar 29 04:11	0°8		max. Earth dist.	8309 Feb 02 06:39	18° ≈ 59'32	1.44121 AU
evening max el	8308 Mar 29 17:41	0° 8 35'05	19°55'24		8309 Feb 09 06:14	0° ∀	
asc. node	8308 Apr 01 18:13	3° 8 13'34		evening rise	8309 Feb 10 22:59	2° ∺ 37'36	
retrograde	8308 Apr 06 07:14	4° 8 57'06			8309 Mar 01 09:50	0° Υ	
evening set	8308 Apr 10 01:42	3° 8 34'16		evening max el	8309 Mar 12 17:17	14° Y 13'55	21°01'27
	8308 Apr 13 13:42	30°RƳ		asc. node	8309 Mar 19 15:18	19° Y 01'36	
inferior conj	8308 Apr 15 10:17	27° Υ 33'56 27° Υ 37'58		retrograde	8309 Mar 21 05:42	19° Ƴ 14'41 17° Ƴ 36'45	
minimum elong	8308 Apr 15 09:06	26° Y $15'15$	3°15'50	evening set	8309 Mar 25 09:42	$1/^{\circ}$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	2057122
min. Earth dist. morning rise	8308 Apr 16 09:41 8308 Apr 20 16:13	26° \ \bigvert 15 \ 15 \\ 21^{\circ} \bigvert 16 \ 31	0.67376 AU	inferior conj minimum elong	8309 Mar 30 17:01 8309 Mar 30 15:06	11° Y 24 29	2°56'59
direct	8308 Apr 26 13:15	18° Υ 39'07		min. Earth dist.	8309 Mar 31 02:59	11 γ 51 10 10° γ 50'00	0.68115 AU
desc. node	8308 May 06 11:44	23° Υ 53'53		morning rise	8309 Apr 04 20:16	5° Υ 09'52	0.00113 AU
morning max el	8308 May 08 10:20	25° Υ 46'28	25°05'14	direct	8309 Apr 10 04:00	2° Υ 48'49	
	8308 May 12 07:06	0°8		morning max el	8309 Apr 20 19:27	9° Υ 09'45	23°36'27
	8308 Jun 02 14:44	0°II		desc. node	8309 Apr 23 08:42	11°Υ53'33	
morning set	8308 Jun 13 11:30	18° Ⅱ 21'31			8309 May 07 04:52	0°8	
max. Earth dist.	8308 Jun 17 02:33	24° ∏ 57'41	1.36698 AU	morning set	8309 May 26 00:22	29° 8 28'47	
	8308 Jun 19 18:52	0ං ම			8309 May 26 07:43	$\Pi^{\circ}0$	
				max. Earth dist.	8309 May 29 22:21	6° Ⅱ 14'17	1.38900 AU

superior conj	8309 Jun 06 10:23	19° ∏ 51'30	-1°21'36		8310 Apr 30 12:53	0°B	
minimum elong	8309 Jun 06 15:24	20° Ⅱ 14'57		morning set	8310 May 06 10:31	9° 8 20'58	
	8309 Jun 11 17:54	0 \circ \odot		max. Earth dist.	8310 May 11 20:42	18° 8 16'37	1.41136 AU
evening rise	8309 Jun 15 16:02	7° 5 37'49			8310 May 18 16:17	Π °0	
asc. node	8309 Jun 15 14:19	7° 5 29'28					
	8309 Jun 28 12:43	$0^{\circ}\Omega$		superior conj	8310 May 19 15:10	1° ∏ 41'12	
evening max el	8309 Jul 01 21:42	3° Ω 55'51	18°46'29	minimum elong	8310 May 19 21:00	2° Ⅱ 07'05	1°48'40
retrograde	8309 Jul 10 04:02	8° Ω 01'36		evening rise	8310 May 30 02:12	20° Ⅱ 49'54	
evening set	8309 Jul 12 04:20 8309 Jul 20 05:12	7° Ω 47'55 3° Ω 27'05	0°02'10	asc. node	8310 Jun 02 11:22 8310 Jun 04 01:42	27° Ⅱ 05'43 0° ໑	
inferior conj minimum elong	8309 Jul 20 05:12 8309 Jul 20 05:16	$3^{\circ} \Omega 26'57$	0°02'10 0°01'58	evening max el	8310 Jun 04 01:42 8310 Jun 15 05:09	16° © 32'40	18°16'03
transit middle	8309 Jul 20 05:16	3° Ω 26'57	0°01'58	retrograde	8310 Jun 22 09:07	20°508'40	18 10 03
transit begin	8309 Jul 20 01:37	3° Ω 33'38	0 0120	evening set	8310 Jun 24 16:42	19°5946'52	
transit end	8309 Jul 20 08:56	3° Ω 20'14		inferior conj	8310 Jul 01 22:01	15° © 05'15	1°30'26
desc. node	8309 Jul 20 08:04	3° Ω 21'51		minimum elong	8310 Jul 02 00:42	14° © 59'29	1°29'24
min. Earth dist.	8309 Jul 23 09:35	1° Ω 08′22	0.57009 AU	min. Earth dist.	8310 Jul 05 07:25	12° © 12'20	0.59085 AU
	8309 Jul 25 02:36	30° ₹ 5		desc. node	8310 Jul 07 05:06	10° 5 45'10	
morning rise	8309 Jul 28 02:46	28°\$22'06		morning rise	8310 Jul 09 05:34	9° 5 27'54	
direct	8309 Aug 02 16:52	27° © 06'02		direct	8310 Jul 15 12:16	7° 5 40'39	
	8309 Aug 11 08:49	$0^{\circ}\Omega$		morning max el	8310 Jul 29 21:13	15° © 28'43	27°26'56
morning max el	8309 Aug 17 00:22	4° Ω 34'18	26°22'18		8310 Aug 10 16:20	0 ° Ω	
	8309 Sep 04 11:31	0° m/y			8310 Aug 27 20:44	0° my	
asc. node	8309 Sep 11 13:49	13° Mp 26'25		asc. node	8310 Aug 29 10:49	3° Mp 16'01	
morning set	8309 Sep 14 18:20 8309 Sep 19 07:58	20° Mp 03'59 0° <u>₽</u>		morning set max. Earth dist.	8310 Aug 30 02:09	4° Mp 36'16 18° Mp 53'14	1 21640 ATT
	8309 Sep 19 07.38	0 ==		max. Earm dist.	8310 Sep 05 15:58	18 IIJ 33 14	1.31648 AU
superior conj	8309 Sep 21 16:01	5° £ 10'23	1°26'43	superior conj	8310 Sep 06 03:47	19° m 58'46	1°11'29
minimum elong	8309 Sep 21 14:01	4° £ 59'19	1°26'30	minimum elong	8310 Sep 06 01:32	19° Mp 46'16	1°11'05
max. Earth dist.	8309 Sep 22 05:41	6° £ 26′03	1.31849 AU		8310 Sep 10 16:38	0∘ <u>⊽</u>	
evening rise	8309 Sep 28 13:50	20° £ 11'16		evening rise	8310 Sep 12 22:01	4° ≙ 48'11	
	8309 Oct 03 10:00	0°M			8310 Sep 26 03:48	0° M	
desc. node	8309 Oct 16 06:52	22°M09'51		desc. node	8310 Oct 03 03:57	10° M $30'28$	
	8309 Oct 21 22:04	0°⊀		evening max el	8310 Oct 11 18:03	20° M26'28	26°15'35
evening max el	8309 Oct 29 18:29		27°09'13	retrograde	8310 Oct 25 16:07	27°M31'16	
retrograde	8309 Nov 12 15:41	15° ₹ 59'19		evening set	8310 Nov 01 05:04	25° ™ 47'50	
evening set	8309 Nov 19 16:04	13° х 48'01	0.61016.477	min. Earth dist.	8310 Nov 05 07:12	23°M13'19	0.58928 AU
min. Earth dist.	8309 Nov 23 09:14	11° 🗷 04'29	0.61016 AU	inferior conj	8310 Nov 08 11:30	20°M50'24	
inferior conj minimum elong	8309 Nov 26 11:42 8309 Nov 26 18:33	8° ₹ 23'59 8° ₹ 09'11	-3°44'16 3°41'56	minimum elong morning rise	8310 Nov 08 18:34 8310 Nov 16 10:21	20°M37'06 16°M19'58	4°44'59
morning rise	8309 Nov 20 18:33 8309 Dec 03 23:20	3° ₹ '31'13	3 41 30	direct	8310 Nov 18 16:36	16°M02'32	
direct	8309 Dec 06 04:24	3°×3113		asc. node	8310 Nov 25 10:22	18°M47'52	
asc. node	8309 Dec 08 13:20	3° ₹ 35'08		morning max el	8310 Nov 26 17:42		18°26'33
morning max el	8309 Dec 13 08:37	6° ∡ 747'15	17°57'13		8310 Dec 04 05:29	0° ∡ 7	
C	8309 Dec 28 05:43	8°0		morning set	8310 Dec 12 16:41	15° ∡ ′27'32	
morning set	8309 Dec 29 00:26	1° る 25'54			8310 Dec 20 07:51	8°0	
superior conj	8310 Jan 08 07:07	19° る 58'45	0°29'04	superior conj	8310 Dec 21 17:15		1°00'04
minimum elong	8310 Jan 08 09:28	20° ろ 09'01	0°28'52	minimum elong	8310 Dec 21 20:40	2° る 50'51	0°59'46
desc. node	8310 Jan 12 05:58	26° ප් 47'30		max. Earth dist.	8310 Dec 29 04:55	15°る57'17	1.40470 AU
E d E d	8310 Jan 14 03:39	0°≈	1 42401 411	desc. node	8310 Dec 30 02:57	17° る 31'53	
max. Earth dist.	8310 Jan 15 20:04 8310 Jan 21 20:27	2°≈48'01 12°≈31'47	1.42491 AU	evening rise	8311 Jan 02 13:31 8311 Jan 06 16:06	23°る19'13 0°≈	
evening rise	8310 Feb 02 06:47	12 ≈ 3147 0° ∺			8311 Jan 27 05:16	0 ≈ 0° ∺	
evening max el	8310 Feb 23 11:54	27° ¥ 55'16	22°17'06	evening max el	8311 Feb 06 02:52	11°) 39'04	23°37'07
evening max er	8310 Feb 25 16:58	0° Υ	22 17 00	retrograde	8311 Feb 16 20:47	17° X 59'32	23 37 07
retrograde	8310 Mar 05 02:41	3° Υ 37'12		asc. node	8311 Feb 21 09:28	16° ¥ 20'00	
asc. node	8310 Mar 06 12:23	3° Y 27'12		evening set	8311 Feb 21 23:37	15°) (51'44	
evening set	8310 Mar 09 17:32	1° Y 44'04		inferior conj	8311 Feb 27 09:58	9°) 24′38	1°51'47
	8310 Mar 11 12:05	30° ₹ ₩		minimum elong	8311 Feb 27 07:50	9°) 31′55	1°51'08
inferior conj	8310 Mar 15 01:33	25°) 22′40		min. Earth dist.	8311 Feb 26 19:43	10°) 13′21	0.68308 AU
minimum elong	8310 Mar 14 23:18	25°) €30'30		morning rise	8311 Mar 04 16:02	3° ∺ 20′06	
min. Earth dist.	8310 Mar 14 23:05	25° ∺ 31'16	0.68421 AU	direct	8311 Mar 08 20:04	1° ¥ 42'37	
morning rise	8310 Mar 20 04:55	19°) 12′26		morning max el	8311 Mar 17 00:39	6°) €23'39	20°46'55
direct	8310 Mar 24 22:42	17° € 12'22	22007140	desc. node	8311 Mar 28 02:36	20°) € 12'43	
morning max el	8310 Apr 03 07:02	22°) 41′07 0° °	22~07'48		8311 Apr 03 21:22	0° Υ 18° Υ 04'04	
desc. node	8310 Apr 09 15:37 8310 Apr 10 05:40	0° Υ 44'44		morning set	8311 Apr 15 18:53 8311 Apr 23 07:33	18 ⁰ 7'04'04 0° と	
uese. Houe	0510 Apr 10 05.40	v 14444			0511 Apr 25 07.33	v O	

max. Earth dist.	8311 Apr 24 02:04	1° 8 14'56	1.43109 AU	greatest brilliancy desc. node	8312 Mar 11 19:39 8312 Mar 13 23:32	6° 米 55'27 10° 米 07'40	-0.7m
superior conj	8311 Apr 30 21:25	12° 8 29'16	-2°07'36	morning set	8312 Mar 24 16:19	26°) €23'54	
minimum elong	8311 May 01 01:12	12° 8 45'12	2°07'34	C	8312 Mar 27 00:18	$0^{\circ}\mathbf{\Upsilon}$	
	8311 May 11 00:26	$\Pi^{\circ}0$		max. Earth dist.	8312 Apr 05 14:11	14° Y 59'07	1.44578 AU
evening rise	8311 May 12 21:12	3° Ⅱ 18'13			-		
asc. node	8311 May 20 08:24	16° Ⅲ 22'13		superior conj	8312 Apr 10 02:51	22° Y 12'53	-2°10'58
evening max el	8311 May 29 17:11	29° Ⅱ 35'42	18°05'18	minimum elong	8312 Apr 10 00:39	22° Y 04'04	2°10'59
	8311 May 30 03:19	0 \circ \odot			8312 Apr 14 21:54	0°8	
retrograde	8311 Jun 05 06:33	2° © 57'59		evening rise	8312 Apr 23 20:22	14° 8 52'59	
evening set	8311 Jun 07 21:35	2° © 25'15			8312 May 02 21:26	$\Pi^{\circ}0$	
	8311 Jun 11 15:21	30° Ŗ Ⅱ		asc. node	8312 May 06 05:26	5° Ⅱ 12'23	
inferior conj	8311 Jun 14 10:24	27° Ⅱ 23'32	2°30'40	evening max el	8312 May 12 06:31	12° Ⅱ 56'38	18°13'32
minimum elong	8311 Jun 14 13:20	27° Ⅱ 16′14	2°29'47	retrograde	8312 May 18 15:43	16° Ⅱ 19'42	
min. Earth dist.	8311 Jun 17 13:15	24° Ⅱ 19'44	0.61335 AU	evening set	8312 May 21 13:57	15° Ⅱ 34'12	
morning rise	8311 Jun 21 02:51	21° Ⅱ 23'42		inferior conj	8312 May 27 14:19	10° Ⅱ 14'10	3°06'06
desc. node	8311 Jun 24 02:08	19° Ⅱ 48'53		minimum elong	8312 May 27 16:17	10° Ⅱ 08'40	3°05'38
direct	8311 Jun 27 19:01	19° Ⅱ 07'08		min. Earth dist.	8312 May 30 04:23	7° Ⅱ 22'05	0.63477 AU
morning max el	8311 Jul 12 00:52	27° ∏ 07'02	27°54'50	morning rise	8312 Jun 02 17:16	4° Ⅱ 01'53	
	8311 Jul 14 18:25	0°©		direct	8312 Jun 09 11:24	1° Ⅱ 24'16	
	8311 Aug 04 08:35	$0^{\circ}\Omega$		desc. node	8312 Jun 09 23:08	1° Ⅱ 25'02	
morning set	8311 Aug 14 05:17	18° Ω 52'21		morning max el	8312 Jun 23 09:17	9° Ⅱ 26'55	27°44'40
asc. node	8311 Aug 16 07:48	23° Ω 15'41			8312 Jul 09 09:11	0° ©	
D d F	8311 Aug 19 11:09	0°M)	1 21002 444		8312 Jul 26 16:00	0°N	
max. Earth dist.	8311 Aug 20 00:33	1° Mp 12'56	1.31903 AU	morning set	8312 Jul 28 01:26	2° Ω 45'29	1 22/2/ 111
	0211 4 21 14 12	40 m. 20122	0051100	max. Earth dist.	8312 Aug 02 03:18	13° Ω 12'55	1.32636 AU
superior conj	8311 Aug 21 14:12	4° Mp 39'22	0°51'28	asc. node	8312 Aug 02 04:45	13° Ω 20'34	
minimum elong	8311 Aug 21 12:11	4° Mp 28'15	0°51'00	gumariar agni	9212 Aug 04 21:24	19° Ω 06'25	0°27'05
evening rise	8311 Aug 28 08:52	19° ™ 30'02 0° ₽		superior conj	8312 Aug 04 21:24	19 ∂ t 06 23	0°26'43
desc. node	8311 Sep 02 10:45 8311 Sep 20 01:01	0 ≗ 27° £ 43'26		minimum elong	8312 Aug 04 20:09 8312 Aug 09 21:51	0° My	0 2043
desc. node	8311 Sep 20 01:01 8311 Sep 22 03:21	0°M		evening rise	8312 Aug 11 20:30	ربات 4° ۱۱) 10'41	
evening max el	8311 Sep 22 03:21 8311 Sep 23 09:32	1°ML14'54	24°53'21	evening rise	8312 Aug 25 16:13	0∘ ⊽	
retrograde	8311 Oct 07 05:48	8°M13'26	24 33 21	evening max el	8312 Sep 03 20:43	0 — 11° Ω 30'36	23°15'28
evening set	8311 Oct 12 18:21	7°M04'45		desc. node	8312 Sep 05 20:43	13° ⊆ 22'12	25 15 26
min. Earth dist.	8311 Oct 17 20:46	4°M20'56	0.56974 AU	retrograde	8312 Sep 17 07:19	18° ⊆ 13'56	
inferior conj	8311 Oct 20 15:30	2°M32'11		evening set	8312 Sep 21 08:24	17° £ 38'09	
minimum elong	8311 Oct 20 19:08	2°M26'14		min. Earth dist.	8312 Sep 28 06:03		0.55467 AU
8	8311 Oct 24 20:00	30° ₽ Ω		inferior conj	8312 Sep 29 23:38	13° £ 25'47	
morning rise	8311 Oct 28 22:11	28° £ 24'37		minimum elong	8312 Sep 29 20:04	13° ≏ 31'00	5°29'26
direct	8311 Oct 31 10:27	28° ഫ 06'49		morning rise	8312 Oct 08 09:52	9° £ 34'38	
	8311 Nov 06 12:41	0°M,		direct	8312 Oct 11 08:48	9° ≙ 13'42	
morning max el	8311 Nov 09 17:20	2°M31'23	19°17'34	morning max el	8312 Oct 22 04:33	14° ≙ 17'53	20°31'01
asc. node	8311 Nov 12 07:23	5°M18′36		asc. node	8312 Oct 29 04:22	22° ≙ 50'44	
morning set	8311 Nov 26 17:43	29°M53'04			8312 Nov 02 12:54	0° M ₊	
	8311 Nov 26 19:06	0° ∡ ¹		morning set	8312 Nov 10 00:25	14°M32'37	
superior conj	8311 Dec 04 20:45	16° ≮ 01'23	1°21'54	superior conj	8312 Nov 17 12:46		1°35'14
minimum elong	8311 Dec 04 23:41	16° ≯ 15'40	1°21'46	minimum elong	8312 Nov 17 14:33	0° ≯ 11'41	1°35'16
max. Earth dist.	8311 Dec 11 10:46	28° ∡ 25′13	1.38299 AU		8312 Nov 17 12:15	0° ∡	
	8311 Dec 12 07:43	0° ろ		max. Earth dist.	8312 Nov 22 17:57	10° ₹ 23′23	1.36227 AU
evening rise	8311 Dec 15 04:35	5° ට 05'19		evening rise	8312 Nov 26 15:20	17° 🖈 43'19	
desc. node	8311 Dec 16 23:57	8°る12'40		desc. node	8312 Dec 02 20:59	28° х 44'59	
	8311 Dec 30 16:53	0°≈	24055105		8312 Dec 03 14:44	ිර ව	
evening max el	8312 Jan 19 16:06	25°≈25'44	24°55'05		8312 Dec 24 00:02	0°≈	26004106
	8312 Jan 25 03:09	0° ∀		evening max el	8313 Jan 01 05:06	9°≈12'17	26°04'06
retrograde evening set	8312 Jan 31 11:01 8312 Feb 06 02:27	2° ∺ 17'09 29°≈56'15		retrograde evening set	8313 Jan 13 20:26 8313 Jan 20 00:19	16°≈23'34 13°≈52'47	
evening set	8312 Feb 06 02:27 8312 Feb 06 00:40	29°≈3613 30°R≈		min. Earth dist.	8313 Jan 24 05:58	9°≈23'21	0.66907 AU
asc. node	8312 Feb 08 06:32	30 k≈ 27°≈46'09		asc. node	8313 Jan 25 03:36	9 ≈2321 8°≈16'18	0.00707 AU
min. Earth dist.	8312 Feb 08 00:32 8312 Feb 10 14:45	27 ≈40 09 24°≈52'19	0.67799 AU	inferior conj	8313 Jan 25 19:06	8 ≈10 18 7°≈27'59	0°12'53
inferior conj	8312 Feb 11 16:27	23°≈27'42	1°06'17	minimum elong	8313 Jan 25 18:45	7°≈29'03	0°12'52
minimum elong	8312 Feb 11 14:57	23°≈32'39	1°05'48	transit middle	8313 Jan 25 18:45	7°≈29'03	0°12'52
morning rise	8312 Feb 17 03:42	17°≈30'22		transit begin	8313 Jan 25 17:03	7°≈34'23	
direct	8312 Feb 20 18:58	16°≈14'25		transit end	8313 Jan 25 20:28	7°≈23'43	
morning max el	8312 Feb 28 02:10	20°≈18'33	19°38'46	morning rise	8313 Jan 31 13:50	1°≈39'40	
Ç	8312 Mar 06 23:47	0°) €		direct	8313 Feb 03 17:49	0° ≈ 42'34	

morning max el	8313 Feb 10 11:06	4° ≈ 22'02	18°46'03	minimum elong	8314 Jan 09 17:09	21° る 16'51	0°47'03
desc. node	8313 Feb 28 20:28	0° \ 22'09	10 40 03	asc. node	8314 Jan 12 00:41	18° る 43'59	0 47 03
dese. Hode	8313 Feb 28 14:48	0° ∀		morning rise	8314 Jan 15 20:10	15° ප් 44'01	
morning set	8313 Mar 04 03:14	5°) 30'17		direct	8314 Jan 18 14:44	15° る 02'05	
max. Earth dist.	8313 Mar 19 07:02	29°) 13'30	1.45388 AU	morning max el	8314 Jan 25 01:30	18°る28'12	18°09'54
max. Darm dist.	8313 Mar 19 18:54	0°Υ	1.13300110	morning max er	8314 Feb 02 18:10	0°≈	10 07 5 1
	001011111111111111111111111111111111111	•		morning set	8314 Feb 12 18:30	16°≈03'12	
superior conj	8313 Mar 20 12:38	1° Y 09'29	-1°54'28	desc. node	8314 Feb 15 17:26	20°≈50'34	
minimum elong	8313 Mar 20 04:06	0° Υ 36'01			8314 Feb 21 10:15	0°) €	
evening rise	8313 Apr 04 20:13	25° Y 28'57				• / (
	8313 Apr 07 15:31	0°8		superior conj	8314 Feb 27 18:18	10°) 02'07	-1°19'47
greatest brilliancy	8313 Apr 11 15:16	6° 8 25'02	-0.9m	minimum elong	8314 Feb 27 09:27	9° ∺ 27'16	
asc. node	8313 Apr 23 02:30	23° 8 27'38	0.5111	max. Earth dist.	8314 Mar 02 02:36		1.45466 AU
evening max el	8313 Apr 25 18:20	26° 8 28'27	18°39'59		8314 Mar 12 13:10	0°Υ	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
evening man er	8313 May 01 08:57	0°II	10 0,0,	evening rise	8314 Mar 15 21:53	5° Υ 13'41	
retrograde	8313 May 02 08:23	0°П05'20		greatest brilliancy	8314 Mar 28 03:39	24°Υ05'51	-0.7m
	8313 May 03 07:37	30° ₹ 8		8	8314 Apr 01 03:36	0°8	***
evening set	8313 May 05 13:59	29° 8 05'51		evening max el	8314 Apr 09 02:25	10° 8 05'16	19°23'27
inferior conj	8313 May 11 05:45	23° 8 29'03	3°21'42	asc. node	8314 Apr 09 23:35	10° 8 56'41	19 23 27
minimum elong	8313 May 11 06:22	23° 8 27'08	3°21'31	retrograde	8314 Apr 16 05:14	14° 8 07'34	
min. Earth dist.	8313 May 13 04:41	21° 8 05'59	0.65319 AU	evening set	8314 Apr 19 18:49	12° 8 53'19	
morning rise	8313 May 16 22:02	17° 8 11'45	0.03317710	inferior conj	8314 Apr 25 05:14	7° 8 01'11	3°21'46
direct	8313 May 23 11:34	14° 8 25'02		minimum elong	8314 Apr 25 04:37	7° 8 03'11	3°21'38
desc. node	8313 May 27 20:08	15° 8 26'42		min. Earth dist.	8314 Apr 26 12:56	5° 8 17'36	0.66758 AU
morning max el	8313 Jun 05 19:35	22° 8 17'44	27001'00	morning rise		0° 8 43'14	0.00738 AU
morning max er	8313 Jun 12 13:43	0° Ⅱ	27 01 09	morning rise	8314 Apr 30 14:03	0 043 14 30°RΥ	
		0°9		J:4	8314 May 01 10:44	30° γ 1 27° Υ 59'33	
. ,	8313 Jul 02 15:01			direct	8314 May 06 18:08		
morning set	8313 Jul 11 11:45	16°907'53	1 22060 ATT	1 1	8314 May 12 17:16	0°8	
max. Earth dist.	8313 Jul 15 20:45	24°5946'03	1.33860 AU	desc. node	8314 May 14 17:09	1° 8 23'26	25050121
	8313 Jul 18 10:03	0 ° Ω		morning max el	8314 May 19 05:35	5° 8 27'08	25°52'21
	0010 1 10 00 10	20.01.412	0001102		8314 Jun 07 02:35	0°II	
superior conj	8313 Jul 19 23:18	3° Ω 14'13		morning set	8314 Jun 24 08:22	28° ∏ 48′09	
minimum elong	8313 Jul 19 23:22	3° Ω 14'34	0°01'09		8314 Jun 24 23:57	0°©	
behind sun begin	8313 Jul 19 17:44	2° Ω 45'02		max. Earth dist.	8314 Jun 28 03:22	5° © 55'18	1.35554 AU
behind sun end	8313 Jul 20 05:00	3° Ω 44'09					
asc. node	8313 Jul 20 01:44	3° Ω 27'02		superior conj	8314 Jul 03 17:16	16°954'56	
evening rise	8313 Jul 27 07:03	18° Ω 44'57		minimum elong	8314 Jul 03 19:08	17° © 04'25	0°31'39
	8313 Aug 01 20:17	0° m		asc. node	8314 Jul 06 22:43	23° © 30'14	
evening max el	8313 Aug 16 12:22	21° m 49'19	21°38'44		8314 Jul 10 02:13	$0^{\circ}\Omega$	
desc. node	8313 Aug 23 19:12	26° Mp 55′37		evening rise	8314 Jul 11 14:21	3° Ω 05'56	
retrograde	8313 Aug 28 21:52	27° m 58'13			8314 Jul 27 04:56	0° т р	
evening set	8313 Aug 31 13:42	27° Mp 42'12		evening max el	8314 Jul 29 15:37	2° Mp 40'43	20°15'59
inferior conj	8313 Sep 09 18:15	23° Mp 43'34	-4°36'50	retrograde	8314 Aug 09 10:28	8° M 00'20	
minimum elong	8313 Sep 09 09:03	23° m 56'27	4°34'41	desc. node	8314 Aug 10 16:18	7° M 56′22	
min. Earth dist.	8313 Sep 09 14:41	23° Mp 48'34	0.54726 AU	evening set	8314 Aug 11 09:23	7° m 50'37	
morning rise	8313 Sep 18 05:29	19° m 53'31		inferior conj	8314 Aug 20 12:20	3° M 52'40	-2°56'42
direct	8313 Sep 21 18:50	19° m 25'56		minimum elong	8314 Aug 20 04:24	4°№04'19	2°54'01
morning max el	8313 Oct 04 03:03	25° Mp 16'06	22°04'28	min. Earth dist.	8314 Aug 22 00:42	2° m 59'14	0.54925 AU
	8313 Oct 08 11:48	0° ⊽			8314 Aug 28 02:31	30° ₽ Ω	
asc. node	8313 Oct 16 01:22	11° ≏ 10'35		morning rise	8314 Aug 28 22:26	29° Ω 43'45	
morning set	8313 Oct 25 10:32	29° ≏ 19'58		direct	8314 Sep 02 05:11	29° Ω 04'14	
	8313 Oct 25 18:10	0°M₊			8314 Sep 07 04:57	0° m	
				morning max el	8314 Sep 15 17:01	5° № 38'42	23°49'40
superior conj	8313 Nov 01 13:36	14° M 28'07	1°40'59	asc. node	8314 Oct 02 22:21	0° ₽ 06'33	
minimum elong	8313 Nov 01 14:03	14°M30'26	1°41'06		8314 Oct 02 20:57	0∘ ত	
max. Earth dist.	8313 Nov 05 07:43	22°M15'56	1.34455 AU	morning set	8314 Oct 09 22:11	14° ≏ 09'56	
	8313 Nov 09 04:52	0° ∡ ¹		-			
evening rise	8313 Nov 09 17:59	1° х 03′32		superior conj	8314 Oct 16 20:18	29° ჲ 09'06	1°40'03
desc. node	8313 Nov 19 18:02	19° х 03′49		minimum elong	8314 Oct 16 19:33	29° ഫ 05'00	1°40'06
	8313 Nov 26 15:14	0°る		Ş	8314 Oct 17 05:43	0° M	
evening max el	8313 Dec 14 18:25	22° る 52'13	26°56'43	max. Earth dist.	8314 Oct 19 06:08	4°M20'06	1.33088 AU
<i>3</i> 22	8313 Dec 26 02:05	0°≈		evening rise	8314 Oct 24 08:45	14°M56'10	
retrograde	8313 Dec 28 00:11	0°≈11'41		5	8314 Nov 01 07:29	0° ∡ 7	
	8313 Dec 29 20:47	30°R₹		desc. node	8314 Nov 06 15:07	9° × ⁷ 03'03	
evening set	8314 Jan 03 15:16	27° る 35'55		acce. Hour	8314 Nov 21 11:09	% で ろ	
min. Earth dist.	8314 Jan 07 15:04		0.65653 AU	evening max el	8314 Nov 27 06:56	6° ਰ 14'29	27°25'41
inferior conj	8314 Jan 09 15:46	23 34047 21° る 20'50		retrograde	8314 Nov 27 00:30 8314 Dec 10 21:26	13°る33'40	∠, ∠J ⊤ 1
microi conj	5517 July 07 15.40	21 02030	J 7/ 70	renograde	5517 DCC 10 21.20	15 055 40	

evening set	8314 Dec 17 20:55	10° る 59'46		min. Earth dist.	8315 Dec 04 06:19	210.701'50	0.62186 AU
min. Earth dist.	8314 Dec 17 20:33 8314 Dec 21 15:49		0.64062 AU	inferior conj	8315 Dec 07 04:45	18° 🖈 18'42	
inferior conj	8314 Dec 24 04:01	5° そ 00'33		minimum elong	8315 Dec 07 04:45	18°×1042	
minimum elong	8314 Dec 24 07:34	4° ප 51'16		morning rise	8315 Dec 14 09:13	13°× 14'34	3 02 11
asc. node	8314 Dec 29 21:45	0° ರ 04'46	1 0200	direct	8315 Dec 16 15:40	12° √ 51'45	
use. Houe	8314 Dec 30 01:19	30°R ✓		asc. node	8315 Dec 16 18:49	12° x ⁷ 51'50	
morning rise	8314 Dec 30 19:53	29° х 38'21		morning max el	8315 Dec 23 11:27	16° ₹ 20'03	17°49'34
direct	8315 Jan 02 07:07	29° х 07'47		morning man er	8316 Jan 02 02:12	0° 궁	1, 1, 5
	8315 Jan 05 12:28	0°ප		morning set	8316 Jan 08 07:37	10° る 58'07	
morning max el	8315 Jan 08 18:40	2° ට 30'26	17°50'52				
morning set	8315 Jan 25 14:03	27° る 59'29		superior conj	8316 Jan 19 11:54	0° ≈ 32'41	0°07'13
C	8315 Jan 26 18:25	0° ≈		minimum elong	8316 Jan 19 12:35	0°≈35'37	0°07'16
desc. node	8315 Feb 02 14:24	11° ≈ 28'40		behind sun begin	8316 Jan 19 04:42	0°≈02'06	
				behind sun end	8316 Jan 19 20:29	1° ≈ 09'03	
superior conj	8315 Feb 07 14:45	19° ≈ 41'32	-0°35'52		8316 Jan 19 04:12	0° ≈	
minimum elong	8315 Feb 07 10:43	19° ≈ 25'12	0°35'10	desc. node	8316 Jan 20 11:22	2°≈11'56	
max. Earth dist.	8315 Feb 12 22:06	28° ≈ 11'34	1.44807 AU	max. Earth dist.	8316 Jan 26 14:13	12° ≈ 18'42	1.43485 AU
	8315 Feb 14 01:32	0°) €		evening rise	8316 Feb 03 00:21	24°≈05'32	
evening rise	8315 Feb 23 10:24	14°) €34'10		Č	8316 Feb 06 20:21	0°) €	
<i>8</i> 21	8315 Mar 05 14:54	$0^{\circ}\mathbf{\Upsilon}$			8316 Feb 27 18:27	$0^{\circ}\Upsilon$	
evening max el	8315 Mar 23 05:18	23° Ƴ 44'20	20°21'59	evening max el	8316 Mar 05 02:34	7° Y 23'51	21°32'38
asc. node	8315 Mar 27 20:41	27° Y ′26'39		asc. node	8316 Mar 13 17:47	12° Y 41'43	
retrograde	8315 Mar 31 03:45	28° Y 21'42		retrograde	8316 Mar 14 01:52	12° Y 42'17	
evening set	8315 Apr 04 02:14	26° Y ′52'16		evening set	8316 Mar 18 10:22	10° Y 57'39	
inferior conj	8315 Apr 09 10:01	20° Ƴ 46'35	3°09'21	inferior conj	8316 Mar 23 17:45	4° Y 40'53	2°46'28
minimum elong	8315 Apr 09 08:28	20° Υ 51'53	3°09'05	minimum elong	8316 Mar 23 15:38	4° Υ 48'15	2°45'59
min. Earth dist.	8315 Apr 10 03:29	19° Ƴ 46'57	0.67753 AU	min. Earth dist.	8316 Mar 23 22:13	4° Y 25'19	0.68297 AU
morning rise	8315 Apr 14 14:29	14° Ƴ 30′25			8316 Mar 27 08:09	30° ₹ ₩	
direct	8315 Apr 20 06:03	11° Ƴ 59'22		morning rise	8316 Mar 28 20:44	28°) €28'02	
morning max el	8315 May 01 14:47	18° Ƴ 47'24	24°28'02	direct	8316 Apr 02 22:26	26°) 15′50	
desc. node	8315 May 01 14:08	18° Ƴ 45'45			8316 Apr 10 15:08	$_0$ ° γ	
	8315 May 11 01:52	0°8		morning max el	8316 Apr 13 00:43	2° Y 14'42	22°58'16
	8315 May 31 04:59	0°II		desc. node	8316 Apr 17 11:06	7° Y ′09'34	
morning set	8315 Jun 06 10:27	10° Ⅱ 33'43			8316 May 04 02:09	0°8	
max. Earth dist.	8315 Jun 10 01:47	17° Ⅱ 02'10	1.37625 AU	morning set	8316 May 17 12:29	21° 8 10'46	
	8315 Jun 16 23:59	0°ഇ		max. Earth dist.	8316 May 21 22:11	28° 8 37'09	1.39866 AU
					8316 May 22 17:23	$\Pi^{\circ}0$	
superior conj	8315 Jun 17 00:03	0°900'20	-1°03'45		•		
minimum elong	8315 Jun 17 04:00	0°ഇ19'22	1°03'16	superior conj	8316 May 29 15:39	12° Ⅱ 20'46	-1°33'59
asc. node	8315 Jun 23 19:44	13°526'40		minimum elong	8316 May 29 21:14	12° ∏ 46′21	1°33'26
evening rise	8315 Jun 25 16:00	17° 5 07'05		evening rise	8316 Jun 08 08:55	0°5540'13	
	8315 Jul 02 09:22	$0^{\circ}\Omega$		•	8316 Jun 08 00:30	0 \circ \mathfrak{S}	
evening max el	8315 Jul 12 07:58	14° Ω 16'31	19°13'02	asc. node	8316 Jun 09 16:46	3° © 12'01	
retrograde	8315 Jul 21 10:30	18° Ω 46'38		evening max el	8316 Jun 24 10:58	26°534'01	18°31'01
evening set	8315 Jul 23 07:48	18° Ω 35'50			8316 Jun 29 14:56	$0^{\circ}\Omega$	
desc. node	8315 Jul 28 13:23	16° Ω 29'32		retrograde	8316 Jul 02 04:53	0° £ 25′36	
inferior conj	8315 Jul 31 19:51	14° Ω 25′08	-1°00'04	evening set	8316 Jul 04 07:58	0° Ω 09'01	
minimum elong	8315 Jul 31 17:12	14° Ω 29'34	0°59'10		8316 Jul 04 20:38	30° ₹ 5	
min. Earth dist.	8315 Aug 03 14:00	12° Ω 34'59	0.56036 AU	inferior conj	8316 Jul 12 00:18	25° © 39'22	0°43'00
morning rise	8315 Aug 08 23:43	9° Ω 41'43		minimum elong	8316 Jul 12 01:50	25° © 36'22	0°42'18
direct	8315 Aug 14 02:09	8° Ω 41'52		desc. node	8316 Jul 14 10:26	23° © 45'14	
morning max el	8315 Aug 28 05:44	15° Ω 53'11	25°31'49	min. Earth dist.	8316 Jul 15 08:31	23° © 03'21	0.57844 AU
	8315 Sep 08 15:25	0° m)		morning rise	8316 Jul 19 16:12	20°©19'11	
asc. node	8315 Sep 19 19:19	19° m 29'13		direct	8316 Jul 25 13:47	18° © 50'16	
morning set	8315 Sep 24 09:39	28° m 57'19		morning max el	8316 Aug 08 23:05	26°528'40	26°53'59
	8315 Sep 24 21:23	0∘ ⊽			8316 Aug 12 07:22	$0^{\circ}\Omega$	
					8316 Sep 01 00:36	0° m	
superior conj	8315 Oct 01 06:30	13° ≏ 58'10	1°33'10	asc. node	8316 Sep 05 16:17	9° m 11'16	
minimum elong	8315 Oct 01 04:51	13° ≏ 49'04	1°33'03	morning set	8316 Sep 07 19:19	13° m 37'28	
max. Earth dist.	8315 Oct 02 11:37	16° ≏ 38'17	1.32168 AU				
evening rise	8315 Oct 08 08:19	29° £ 11'59		superior conj	8316 Sep 14 18:15	28° m 49'20	1°20'52
	8315 Oct 08 17:36	0°M₊		minimum elong	8316 Sep 14 16:06	28° m 37'21	1°20'34
desc. node	8315 Oct 24 12:11	28°M33'54		max. Earth dist.	8316 Sep 14 21:08	29° Mp 05'20	1.31703 AU
	8315 Oct 25 10:36	0° ∡ ¹			8316 Sep 15 06:59	0∘ ⊽	
evening max el	8315 Nov 09 16:17	19° ∡ 04'48	27°24'47	evening rise	8316 Sep 21 14:02	13° ≏ 43'46	
retrograde	8315 Nov 23 11:37	26° ₹ 19'36			8316 Sep 29 18:41	0° M	
evening set	8315 Nov 30 14:07	23° ₹ ¹56'39		desc. node	8316 Oct 10 09:16	17°M25'03	
evening set	051511015011101						

	8316 Oct 20 14:31	0° ∡ 7			8317 Sep 23 08:29	0°M	
evening max el	8316 Oct 21 19:57	1° × 11'44	26°50'21	desc. node	8317 Sep 27 06:20	5°M19'54	
retrograde	8316 Nov 04 17:50	8° ₹ 1144	20 30 21	evening max el	8317 Oct 03 15:56	12°M28'08	25°/3'30
evening set	8316 Nov 11 14:50	6° × 19'54		retrograde	8317 Oct 03 13:30 8317 Oct 17 14:14	19°M31'03	23 43 30
min. Earth dist.	8316 Nov 15 10:09	3° × ⁷ 42'26	0.60126 AU	evening set	8317 Oct 17 14:14 8317 Oct 23 18:10	18°M02'08	
inferior conj				-			0.58061 AU
,	8316 Nov 18 14:39	1° ₹ 06'58		min. Earth dist.	8317 Oct 28 04:27	15°M25'42	
minimum elong	8316 Nov 18 21:54		4°10'06	inferior conj	8317 Oct 31 06:15	13°M15'20	
	8316 Nov 19 23:59	30°RM		minimum elong	8317 Oct 31 12:24		5°06'44
morning rise	8316 Nov 26 07:24	26°M23'49		morning rise	8317 Nov 08 08:58	8°M54'45	
direct	8316 Nov 28 12:20	26°M05'26		direct	8317 Nov 10 16:56	8°M37'38	
asc. node	8316 Dec 02 15:50	27° M 13'47		morning max el	8317 Nov 19 05:57	12°M44'37	18°45'29
morning max el	8316 Dec 06 00:27	29°M48'23	18°07'12	asc. node	8317 Nov 19 12:50	13°M01'27	
	8316 Dec 06 05:09	0° ∡ ¹			8317 Nov 30 21:54	0° ∡	
morning set	8316 Dec 21 17:01	24° ∡ ¹40'56		morning set	8317 Dec 05 13:24	8° ∡ 753'46	
	8316 Dec 24 13:11	0°₹					
				superior conj	8317 Dec 14 03:53	25° ∡ ³33'34	1°10'25
superior conj	8316 Dec 31 09:47	12° る 34'26	0°43'19	minimum elong	8317 Dec 14 07:14	25° ∡ ¹49'21	1°10'11
minimum elong	8316 Dec 31 12:50	12° る 48'04	0°43'02		8317 Dec 16 12:55	8°0	
desc. node	8317 Jan 06 08:21	22° る 57'07		max. Earth dist.	8317 Dec 21 07:53	8° る 38'59	1.39549 AU
max. Earth dist.	8317 Jan 08 01:12	25° る 49'50	1.41661 AU	desc. node	8317 Dec 24 05:21	13° る 40'33	
	8317 Jan 10 13:23	0° ≈		evening rise	8317 Dec 25 07:51	15° る 33'17	
evening rise	8317 Jan 13 05:20	4°≈20'23		Č	8318 Jan 03 05:44	0° ≈	
<i>5</i>	8317 Jan 30 03:31	0°) €			8318 Jan 24 21:56	0°) €	
evening max el	8317 Feb 15 19:15	21°) 05'27	22°50'56	evening max el	8318 Jan 29 09:18		24°11'03
retrograde	8317 Feb 25 21:55	27° \ 05'09	22 2000	retrograde	8318 Feb 09 14:31	11° X 26'00	2. 11.03
asc. node	8317 Feb 28 14:53	26° H 28'28		evening set	8318 Feb 14 22:32	9° H 12'38	
evening set	8317 Mar 02 17:39	25° H 05'41		asc. node	8318 Feb 15 11:57	8°) (42'38	
inferior conj	8317 Mar 02 17:39 8317 Mar 08 02:27	18°) (41'08	2°14'17	min. Earth dist.	8318 Feb 19 15:14	3°) (42'38	0.68132 AU
•	8317 Mar 08 02:27 8317 Mar 08 00:12	18°) (41'08	2°13'39	inferior conj	8318 Feb 20 10:17	2°)(44'21	1°33'31
minimum elong				,			
min. Earth dist.	8317 Mar 07 18:54	19°) €07'18	0.68416 AU	minimum elong	8318 Feb 20 08:21	2°) 50'51	1°32′54
morning rise	8317 Mar 13 06:38	12°) (32'57			8318 Feb 22 12:29	30°R≈	
direct	8317 Mar 17 18:23	10°) (42′33		morning rise	8318 Feb 25 18:14	26°≈42'25	
morning max el	8317 Mar 26 14:31	15°) € 50'39	21°32'04	direct	8318 Mar 01 16:42	25°≈14'10	
desc. node	8317 Apr 04 08:03	26°) 17′56		morning max el	8318 Mar 09 11:17	29° ≈ 38'15	20°16'09
	8317 Apr 07 01:17	0° Υ			8318 Mar 09 19:56	0° ∀	
morning set	8317 Apr 27 10:56	0° 8 31'24		desc. node	8318 Mar 22 04:59	15°) 58'44	
	8317 Apr 27 03:01	9° 8			8318 Mar 31 15:42	0 ° Υ	
max. Earth dist.	8317 May 03 22:45	11° 8 01'35	1.42015 AU	morning set	8318 Apr 06 11:54	8° Ƴ 56'28	
				max. Earth dist.	8318 Apr 16 06:48	24° Y 20′05	1.43802 AU
superior conj	8317 May 11 11:21	23° 8 45'26	-1°58'24		8318 Apr 19 18:57	0°8	
minimum elong	8317 May 11 16:47	24° 8 08'58	1°58'08				
	8317 May 15 00:44	$\Pi^{\circ}0$		superior conj	8318 Apr 22 07:08	4° 8 06'30	-2°11'15
evening rise	8317 May 22 13:13	13° Ⅲ 35'12		minimum elong	8318 Apr 22 08:49	4° 8 13'24	2°11'19
asc. node	8317 May 27 13:48	22° Ⅱ 40'54		evening rise	8318 May 05 00:20	25° 8 41'58	
	8317 May 31 20:38	0°€			8318 May 07 11:45	$\Pi^{\circ}0$	
evening max el	8317 Jun 07 20:51	9° © 23'44	18°09'09	asc. node	8318 May 14 10:51	11° Ⅱ 47'32	
retrograde	8317 Jun 14 17:19	12° © 51'59		evening max el	8318 May 22 09:56	22° Ⅲ 36′17	18°06'35
evening set	8317 Jun 17 04:02	12° © 25'56		retrograde	8318 May 28 20:11	25° Ⅱ 56'50	
inferior conj	8317 Jun 24 01:54		1°59'18	evening set	8318 May 31 14:23	25° Ⅱ 18'46	
minimum elong	8317 Jun 24 04:55	7° © 29'05	1°58'14	inferior conj	8318 Jun 06 21:25	20° ∏ 09'14	2°48'23
min. Earth dist.	8317 Jun 27 09:46	4°935'07	0.60036 AU	minimum elong	8318 Jun 07 00:03	20° I 02'23	2°47'41
morning rise	8317 Jul 01 02:57	1° 9 47'35	0.00050710	min. Earth dist.	8318 Jun 09 19:25	17° I 107'57	0.62277 AU
desc. node	8317 Jul 01 07:29	1°540'43		morning rise	8318 Jun 13 07:53	14° Ⅱ 07'37	0.02277710
dese. Hode	8317 Jul 05 11:07	30°R∏		desc. node	8318 Jun 18 04:31	11° II 47'35	
direct	8317 Jul 03 11:07 8317 Jul 07 14:43	29° ∏ 46'52		direct	8318 Jun 20 02:00	11° Д 36'20	
unect	8317 Jul 07 14:43 8317 Jul 09 19:20	0°99			8318 Jul 04 04:42	11 Ⅲ 30 20 19° Ⅲ 38'10	27054152
			27942127	morning max el			27 34 33
morning max el	8317 Jul 21 22:57	7° © 41'51	21 43 21		8318 Jul 13 00:27	0° ⊙	
. ,	8317 Aug 07 21:00	0° Ω			8318 Jul 31 19:39	0°Ω	
morning set	8317 Aug 23 01:23	28° Ω 03'54		morning set	8318 Aug 07 01:50	12°Ω11'05	
asc. node	8317 Aug 23 13:14	29° Ω 05'53		asc. node	8318 Aug 10 10:12	19° Ω 08'22	1.00121 :=
	8317 Aug 23 23:31	0° m)		max. Earth dist.	8318 Aug 12 13:26	23° Ω 42'19	1.32161 AU
max. Earth dist.	8317 Aug 29 06:58	11° Mp 30'05	1.31697 AU			_	
				superior conj	8318 Aug 14 14:59	28° Ω 11'29	0°41'38
superior conj	8317 Aug 30 05:40	13°Mp35'37	1°03'33	minimum elong	8318 Aug 14 13:13	28° Ω 01′50	0°41'12
minimum elong	8317 Aug 30 03:27	13°M 23'21	1°03'08		8318 Aug 15 10:49	0° ™	
evening rise	8317 Sep 05 23:35	28° Mp 23'42		evening rise	8318 Aug 21 11:01	13°Mp06'04	
	8317 Sep 06 17:40	0∘ ⊽			8318 Aug 29 21:41	0∘ ⊽	

desc. node	8318 Sep 14 03:25	21° ≏ 56'32		evening rise	8319 Aug 05 22:28	27° Ω 45'10	
evening max el	8318 Sep 15 05:00	23° ₽ 00'06	24°12'37	evening rise	8319 Aug 07 00:01	0° m	
retrograde	8318 Sep 28 22:30	29° ₽ 53'02			8319 Aug 24 17:23	0∘ ⊽	
evening set	8318 Oct 03 20:45	28° ჲ 59'35		evening max el	8319 Aug 27 17:00	3° ≏ 12'56	22°33'13
min. Earth dist.	8318 Oct 09 15:47	26° ჲ 05'52	0.56265 AU	desc. node	8319 Sep 01 00:31	6° ≏ 46'36	
inferior conj	8318 Oct 12 01:31	24° ≏ 36'35	-5°34'49	retrograde	8319 Sep 09 18:32	9° ≏ 43'52	
minimum elong	8318 Oct 12 02:23	24° ₽ 35'15	5°34'44	evening set	8319 Sep 13 04:32	9° ₽ 18'12	
morning rise	8318 Oct 20 10:07	20° ჲ 36'52		min. Earth dist.	8319 Sep 21 00:05	5° ჲ 50'40	0.55049 AU
direct	8318 Oct 23 02:33	20° ≏ 17'56		inferior conj	8319 Sep 22 02:45	5° ≏ 12'53	-5°14'11
morning max el	8318 Nov 02 00:26	24° ≏ 58'27	19°46'01	minimum elong	8319 Sep 21 20:09	5° ≏ 22'16	5°13'12
asc. node	8318 Nov 06 09:50	29° ₽ 59'59		morning rise	8319 Sep 30 13:39	1° ≏ 24'56	
	8318 Nov 06 09:50	0° M		direct	8319 Oct 03 18:35	1° ഫ 01'33	
morning set	8318 Nov 19 17:10	23°M26'14		morning max el	8319 Oct 15 06:01	6° ≏ 24'13	21°08'39
	8318 Nov 22 22:43	0° ∡ ¹		asc. node	8319 Oct 24 06:50	17° ≏ 54'26	
					8319 Oct 31 00:44	0° M	
superior conj	8318 Nov 27 13:11	9° х 15′52	1°28'33	morning set	8319 Nov 04 01:40	8° M 10′52	
minimum elong	8318 Nov 27 15:41	9° ∡ °28′13	1°28'29				
max. Earth dist.	8318 Dec 03 13:54	20° ∡ 52'48	1.37397 AU	superior conj	8319 Nov 11 09:27	23°M29'28	1°38'33
evening rise	8318 Dec 07 07:42	27° ∡ ¹42'34		minimum elong	8319 Nov 11 10:39	23°M35'41	1°38'37
	8318 Dec 08 14:44	0°ಕ			8319 Nov 14 14:04	0° ∡ ¹	
desc. node	8318 Dec 11 02:20	4° る 18'13		max. Earth dist.	8319 Nov 15 23:54	2° ∡ ¹48'30	1.35431 AU
	8318 Dec 27 15:49	0° ≈		evening rise	8319 Nov 20 01:46	10° ∡ ′40′23	
evening max el	8319 Jan 11 22:30	18° ≈ 38'49	25°26'06	desc. node	8319 Nov 27 23:23	24° ∡ ¹45'58	
retrograde	8319 Jan 24 02:37	25°≈39'22			8319 Dec 01 03:19	8°0	
evening set	8319 Jan 29 23:26	23°≈14'00			8319 Dec 23 02:58	0° ≈	
asc. node	8319 Feb 02 09:03	19° ≈ 39'21	0.65465.433	evening max el	8319 Dec 25 11:42	2°≈24'04	26°28'49
min. Earth dist.	8319 Feb 03 08:54	18° ≈ 24'45	0.67465 AU	retrograde	8320 Jan 07 09:33	9° ≈ 39'38	
inferior conj	8319 Feb 04 15:22	16° ≈ 46'39	0°44'34	evening set	8320 Jan 13 18:38	7°≈05'48	0.66404.444
minimum elong	8319 Feb 04 14:17	16°≈50'08	0°44'16	min. Earth dist.	8320 Jan 17 21:40	2°≈51'19	0.66424 AU
morning rise	8319 Feb 10 05:31	10°≈52'50		inferior conj	8320 Jan 19 15:46	0°≈44'39	
direct	8319 Feb 13 15:53	9°≈45'07	19°14'25	minimum elong transit middle	8320 Jan 19 16:05	0°≈43'41 0°≈43'41	0°11'43
morning max el	8319 Feb 20 16:03 8319 Mar 05 01:51	13°≈36'56 0°¥	19 14 23	transit begin	8320 Jan 19 16:05 8320 Jan 19 14:06	0°≈49'40	0°11'43
greatest brilliancy	8319 Mar 05 01:51 8319 Mar 05 19:58	0) 1°) € 07'48	-0.7m	transit degiii	8320 Jan 19 14:00	0°≈37'42	
desc. node	8319 Mar 09 01:54	6° ¥ 02'42	-0.7111	asc. node	8320 Jan 20 06:07	0°≈01'37	
morning set	8319 Mar 16 12:14	17° ¥ 28'06		asc. node	8320 Jan 20 06:39	0 ~01 37 30°Rる	
morning set	8319 Mar 24 13:54	0° Υ		morning rise	8320 Jan 25 14:23	25°る01'07	
max. Earth dist.	8319 Mar 29 21:43	8° Υ 20'56	1.45011 AU	direct	8320 Jan 28 14:11	24°る10'53	
max. Darm dist.	0317 11141 27 21:13	0 12030	1.13011110	morning max el	8320 Feb 04 03:42	27° る 43'00	18°28'39
superior conj	8319 Apr 02 02:54	13° Y ′26'06	-2°06'30	morning man vi	8320 Feb 06 06:04	0° ≈	10 2033
minimum elong	8319 Apr 01 21:38	13° Y °05'11		desc. node	8320 Feb 23 22:52	26° ≈ 23'51	
	8319 Apr 12 09:40	0°8		morning set	8320 Feb 24 10:25	27° ≈ 09'40	
evening rise	8319 Apr 16 13:47	6° 8 51'34		Č	8320 Feb 26 05:22	0° ∀	
asc. node	8319 May 01 07:55	0° Ⅲ 23'58					
	8319 May 01 01:06	$\Pi^{\circ}0$		superior conj	8320 Mar 11 08:28	22° ¥ 13'57	-1°41'34
evening max el	8319 May 05 22:58	6° Ⅱ 02'38	18°22'37	minimum elong	8320 Mar 10 22:53	21° ¥ 36′28	1°40'39
retrograde	8319 May 12 09:01	9°Ⅱ29'49		max. Earth dist.	8320 Mar 11 16:29	22°){ 45'19	1.45516 AU
evening set	8319 May 15 10:28	8° Ⅲ 38′18			8320 Mar 16 07:31	0° Y	
inferior conj	8319 May 21 06:42	3° Ⅱ 10'46	3°14'49	evening rise	8320 Mar 27 03:42	17° Y 03'56	
minimum elong	8319 May 21 08:06	3° Ⅱ 06'39	3°14'31		8320 Apr 04 08:10	0° 8	
min. Earth dist.	8319 May 23 14:20	0°Ⅱ29'40	0.64307 AU	greatest brilliancy	8320 Apr 05 13:07	1° 8 53'07	-0.8m
	8319 May 24 00:59	30° ₹ 8		asc. node	8320 Apr 17 05:00	18° 8 20'48	
morning rise	8319 May 27 04:45	26° 8 55'50		evening max el	8320 Apr 18 09:21	19° 8 36'24	18°56'26
direct	8319 Jun 02 21:38	24° 8 13'09		retrograde	8320 Apr 25 03:58	23° 8 23'02	
desc. node	8319 Jun 05 01:32	24° 8 28'16		evening set	8320 Apr 28 12:51	22° 8 17'17	
	8319 Jun 14 06:47	0°II	25020:55	inferior conj	8320 May 04 01:56	16° 8 33'28	3°23'24
morning max el	8319 Jun 16 14:13		27°29'53	minimum elong	8320 May 04 02:00	16° 8 33'13	3°23'17
	8319 Jul 07 06:49	0.20 0.20		min. Earth dist.	8320 May 05 18:13	14° 8 26'29	0.65980 AU
morning set	8319 Jul 21 18:14	25°952'11		morning rise	8320 May 09 14:39	10° 8 15'20	
E d V :	8319 Jul 23 19:57	0°Ω	1 22102 433	direct	8320 May 16 00:29	7° 8 28'50	
max. Earth dist.	8319 Jul 26 12:50	5°Ω32'31	1.33102 AU	desc. node	8320 May 21 22:33	9° 8 22'20	26024122
asc. node	8319 Jul 28 07:11	9° Ω 14'28		morning max el	8320 May 29 00:49	15° 8 12'55	20-34-32
superior con:	9310 Jul 20 20:15	12° Ω 31'17	0°15'36		8320 Jun 10 03:30 8320 Jun 29 01:54	0° ©	
superior conj minimum elong	8319 Jul 29 20:15 8319 Jul 29 19:29	$12^{\circ} \Omega 31^{\circ} 17$ $12^{\circ} \Omega 27^{\circ} 12$		morning set	8320 Jun 29 01:54 8320 Jul 03 23:16	0್ತಾ 8°ವಾ58'01	
behind sun begin	8319 Jul 29 17:53	$12^{\circ} \Omega 18'41$	0 10 17	max. Earth dist.	8320 Jul 03 23:16 8320 Jul 08 01:57	16°955'06	1.34523 AU
behind sun eedli	8319 Jul 29 17.33 8319 Jul 29 21:04	$12^{\circ}\Omega 35'43$		max. Earth tist.	0320 Jul 00 01.3/	10 200000	1.J7J2J AU
ociniia sun ciia	5517 Jul 27 21.07	12 0000 70					

superior conj minimum elong	8320 Jul 12 19:06 8320 Jul 12 19:53	26°\$28'06 26°\$32'08	-0°13'50 0°13'50	max. Earth dist.	8321 Jun 20 04:17 8321 Jun 21 06:02	27°∏58'58 0°©	1.36388 AU
behind sun begin	8320 Jul 12 16:54	26°516'40					
behind sun end	8320 Jul 12 22:53	26°5947'36		superior conj	8321 Jun 26 08:46	9° © 54'52	-0°45'23
asc. node	8320 Jul 14 04:11	29° © 19'48		minimum elong	8321 Jun 26 11:31	10° © 08'30	0°45'03
	8320 Jul 14 11:53	$0^{\circ}\Omega$		asc. node	8321 Jul 01 01:11	19° 5 20'42	
evening rise	8320 Jul 20 07:55	12° Ω 14'32		evening rise	8321 Jul 04 13:10	26° © 27'55	
•	8320 Jul 29 12:11	0° m p			8321 Jul 06 07:17	$0^{\circ}\Omega$	
evening max el	8320 Aug 08 12:52	13° m 42'11	21°01'20	evening max el	8321 Jul 21 21:50	24° Ω 52′29	19°46'46
desc. node	8320 Aug 17 21:37	19° m 17'42		retrograde	8321 Jul 31 23:22	29° Ω 50′22	
retrograde	8320 Aug 20 07:16	19° m 31'59		evening set	8321 Aug 02 19:57	29° Ω 40′58	
evening set	8320 Aug 22 13:30	19° m 19'55		desc. node	8321 Aug 04 18:43	29° Ω 12'12	
inferior conj	8320 Aug 31 19:19	15° m 22'58	-3°58'42	inferior conj	8321 Aug 11 17:45	25° Ω 39'13	-2°07'18
minimum elong	8320 Aug 31 09:48	15° Mp 36'25	3°55'59	minimum elong	8321 Aug 11 11:56	25° Ω 48'13	2°05'13
min. Earth dist.	8320 Sep 01 09:04	15°Mp03'31	0.54685 AU	min. Earth dist.	8321 Aug 13 20:41	24° Ω 20'45	0.55287 AU
morning rise	8320 Sep 09 06:29	11° m 27'28		morning rise	8321 Aug 20 01:53	21° Ω 16'25	
direct	8320 Sep 13 02:32	10° ™ 55'55		direct	8321 Aug 24 16:42	20° Ω 29'18	
morning max el	8320 Sep 26 00:18	17° Mp 05'27	22°48'35	morning max el	8321 Sep 07 12:58	27° Ω 21'32	24°34'24
	8320 Oct 06 06:39	0∘ ⊽			8321 Sep 10 03:14	0° m	
asc. node	8320 Oct 10 03:49	6° ≏ 30'51		asc. node	8321 Sep 27 00:48	25° Mp 39'06	
morning set	8320 Oct 18 12:40	23° ≏ 00'14			8321 Sep 29 05:53	0∘ ⊽	
	8320 Oct 21 19:14	0° M		morning set	8321 Oct 03 00:25	7° £ 49'31	
superior conj	8320 Oct 25 13:08	8°M02'54	1°41'22	superior conj	8321 Oct 09 21:36	22° ≏ 48'19	1°37'49
minimum elong	8320 Oct 25 13:02	8°M02'24	1°41'27	minimum elong	8321 Oct 09 20:25	22° ≏ 41'53	1°37'49
max. Earth dist.	8320 Oct 28 17:12	14° M 44'17	1.33817 AU	max. Earth dist.	8321 Oct 11 18:40	26° ≏ 53'24	1.32641 AU
evening rise	8320 Nov 02 10:01	24°M15'33			8321 Oct 13 05:23	0°M	
C	8320 Nov 05 09:34	0° ∡ ¹		evening rise	8321 Oct 17 04:53	8°M19'06	
desc. node	8320 Nov 13 20:27	14° ₹ 57'23		Č	8321 Oct 28 20:01	0° ∡ ¹	
	8320 Nov 23 16:41	0°る		desc. node	8321 Oct 31 17:30	4° ₹ 145′24	
evening max el	8320 Dec 07 00:38	15° る 57'10	27°12'09	evening max el	8321 Nov 19 12:03	29° ∡ °07'11	27°29'12
retrograde	8320 Dec 20 10:46	23° る 18'00			8321 Nov 20 10:53	5°0	
evening set	8320 Dec 27 05:58	20°る41'42		retrograde	8321 Dec 03 05:23	6° る 25'26	
min. Earth dist.	8320 Dec 31 03:22	17° る 01'03	0.65020 AU	evening set	8321 Dec 10 06:46	3° る 54'59	
inferior conj	8321 Jan 02 09:10	14° る 32'29	-1°15'27	min. Earth dist.	8321 Dec 14 00:04	0° る 45'02	0.63295 AU
minimum elong	8321 Jan 02 11:26	14° පි 26'14	1°14'20		8321 Dec 14 18:29	30°Ŗ ⋌ 7	
asc. node	8321 Jan 06 03:11	10° る 45'49		inferior conj	8321 Dec 16 16:54	28° ₹ 03'50	-2°24'00
morning rise	8321 Jan 08 18:18	9° る 01'48		minimum elong	8321 Dec 16 21:26	27° ≯ 52'31	2°22'03
direct	8321 Jan 11 09:23	8° る 25'18		morning rise	8321 Dec 23 14:04	22° ∡ ¹48'51	
morning max el	8321 Jan 17 19:42	11° ⋜ 48'48	17°59'40	asc. node	8321 Dec 24 00:15	22° ҂ ¹40′11	
	8321 Jan 30 13:16	0° ≈		direct	8321 Dec 25 22:46	22° ₹ 22'08	
morning set	8321 Feb 04 14:13	8° ≈ 19'34		morning max el	8322 Jan 01 13:05	25° х 46′29	17°47'59
desc. node	8321 Feb 09 19:50	16° ≈ 56'46			8322 Jan 05 02:51	5°0	
	8321 Feb 17 21:58	0° ℋ		morning set	8322 Jan 17 19:55	20° る 44'31	
					8322 Jan 23 04:38	0° ≈	
superior conj	8321 Feb 18 18:30	1° ∺ 21'37	-1°01'37	desc. node	8322 Jan 27 16:47	7° ≈ 37'08	
minimum elong	8321 Feb 18 11:24	0°) 53′24					
max. Earth dist.	8321 Feb 22 11:57	7° ∺ 14'56	1.45271 AU	superior conj	8322 Jan 30 00:53	11° ≈ 30′01	
evening rise	8321 Mar 06 22:10	26° ∺ 33'51		minimum elong	8322 Jan 29 23:05	11° ≈ 22'36	0°16'37
	8321 Mar 09 03:45	0 ° $\mathbf{\Upsilon}$		max. Earth dist.	8322 Feb 05 05:47		1.44318 AU
greatest brilliancy	8321 Mar 20 22:10	17° Ƴ 50'30	-0.6m		8322 Feb 10 13:56	0° ∀	
	8321 Mar 29 18:11	9° 8		evening rise	8322 Feb 14 09:17	5°) 53′47	
evening max el	8321 Apr 01 15:14	3° 8 13'54	19°46'39		8322 Mar 02 12:41	0 ° \mathbf{Y}	
asc. node	8321 Apr 04 02:05	5° 8 26'21		evening max el	8322 Mar 15 15:42	16° Ƴ 53'03	20°50'52
retrograde	8321 Apr 09 01:51	7° 8 30'37		asc. node	8322 Mar 21 23:10	21° Y 26'05	
evening set	8321 Apr 12 18:59	6° 8 10'05		retrograde	8322 Mar 24 00:20	21° Y 47'29	
inferior conj	8321 Apr 18 03:59	0° 8 11'53		evening set	8322 Mar 28 02:52	20° Y 11'47	
minimum elong	8321 Apr 18 02:56	0° 8 15'25	3°17'43	inferior conj	8322 Apr 02 10:15	14° Y 01'15	3°00'51
	8321 Apr 18 07:32	30°RƳ		minimum elong	8322 Apr 02 08:25	14° Y 07'36	3°00'29
min. Earth dist.	8321 Apr 19 05:32	28° Y 46'30	0.67229 AU	min. Earth dist.	8322 Apr 02 22:09	13° Y 20'11	0.68038 AU
morning rise	8321 Apr 23 10:33	23° Y 54'10		morning rise	8322 Apr 07 13:44	7° Y 46'14	
direct	8321 Apr 29 09:30	21° Y 14'47		direct	8322 Apr 12 23:35	5° Y 22'19	
desc. node	8321 May 08 19:34	25° Y 58'37		morning max el	8322 Apr 23 19:30	11°Υ50'25	23°49'51
morning max el	8321 May 11 10:32	28° Y 28′06	25°17'48	desc. node	8322 Apr 25 16:33	13° Y 49'12	
	8321 May 12 21:40	0°8			8322 May 08 08:06	0°8	
	8321 Jun 03 21:32	0° I I			8322 May 27 16:42	0°II	
morning set	8321 Jun 16 12:43	21° Ⅱ 17'11		morning set	8322 May 29 05:07	2° ∏ 34'35	

max. Earth dist.	8322 Jun 02 00:25	9° Ⅱ 11'33	1.38570 AU		8323 May 01 19:42	0° ႘	
				morning set	8323 May 09 19:24	12° 8 38'18	
superior conj	8322 Jun 09 09:35	22° I I42'00		max. Earth dist.	8323 May 14 22:16	21° 8 07'02	1.40820 AU
minimum elong	8322 Jun 09 14:20	23° Ⅱ 04'26	1°16'27		8323 May 20 02:07	Π $^{\circ}0$	
	8322 Jun 13 05:04	0°©				40 T 20154	1045104
asc. node	8322 Jun 17 22:11	9°512'30		superior conj	8323 May 22 17:17	4° Ⅱ 39'54	
evening rise	8322 Jun 18 11:27	10°917'23		minimum elong	8323 May 22 23:07	5° Ⅱ 06'03	1°44'54
	8322 Jun 29 10:01	0° Ω 6° Ω 46'40	10052142	evening rise	8323 Jun 01 23:28	23° Ⅲ 35'09 28° Ⅲ 51'10	
evening max el	8322 Jul 04 19:12	10°Ω58'08	18°52'42	asc. node	8323 Jun 04 19:12 8323 Jun 05 10:06	28° Щ 31°10	
retrograde evening set	8322 Jul 13 06:20 8322 Jul 15 05:47	10° ∂ €38'08 10° Ω 45'19		evening max el	8323 Jun 18 01:33	19° © 18'23	18°19'13
desc. node	8322 Jul 13 03.47 8322 Jul 22 15:48	6° Ω 58'49		retrograde	8323 Jun 25 08:44	19 3 16 23 22° 3 57'57	10 1913
inferior conj	8322 Jul 22 13.48 8322 Jul 23 09:36	6° Ω 27'15	0013131	evening set	8323 Jun 27 15:08	22° 9 37'36	
minimum elong	8322 Jul 23 09:03	6°Ω28'15		inferior conj	8323 Jul 04 23:13	17° 9 58'54	1°18'56
transit middle	8322 Jul 23 09:03	6°Ω28'15		minimum elong	8323 Jul 04 23:13 8323 Jul 05 01:41	17°953'44	1°17'56
transit begin	8322 Jul 23 07:00	6°Ω31'54	0 13 20	min. Earth dist.	8323 Jul 08 08:40	15° © 09'41	0.58758 AU
transit end	8322 Jul 23 11:06	6°Ω24'35		desc. node	8323 Jul 09 12:52	14°915'41	0.50750710
min. Earth dist.	8322 Jul 26 11:53	4°Ω15'30	0.56740 AU	morning rise	8323 Jul 12 08:59	12°925'41	
morning rise	8322 Jul 31 08:59	1° Ω 27'55	0.507 10 110	direct	8323 Jul 18 13:30	10°543'17	
direct	8322 Aug 05 20:15	0°Ω16'14		morning max el	8323 Aug 01 22:43	18° © 28'54	27°19'37
morning max el	8322 Aug 20 02:51	7° Ω 40'13	26°10'04		8323 Aug 11 14:55	$0^{\circ}\Omega$	_, _, _,
	8322 Sep 05 17:48	0° m/			8323 Aug 29 08:17	0° m/	
asc. node	8322 Sep 13 21:46	15° m 10'16		asc. node	8323 Aug 31 18:42	4° m 57'41	
morning set	8322 Sep 17 11:17	22° m 33'43		morning set	8323 Sep 01 19:37	7° m 07'53	
C	8322 Sep 20 21:41	0° ٽ		Č	•		
	•			superior conj	8323 Sep 08 20:26	22° m 27'22	1°14'06
superior conj	8322 Sep 24 08:39	7° ჲ 38'30	1°28'34	minimum elong	8323 Sep 08 18:11	22° m 14'55	1°13'45
minimum elong	8322 Sep 24 06:44	7° £ 27'52	1°28'24	max. Earth dist.	8323 Sep 08 12:27	21° m 43'07	1.31645 AU
max. Earth dist.	8322 Sep 25 02:14	9° ≙ 15'42	1.31915 AU		8323 Sep 12 06:11	0∘ ত	
evening rise	8322 Oct 01 07:21	22° - 42′23		evening rise	8323 Sep 15 14:56	7° ≏ 17'48	
	8322 Oct 04 21:07	0° M ₊			8323 Sep 27 09:17	0° M ₊	
desc. node	8322 Oct 18 14:34	24° ML $00'45$		desc. node	8323 Oct 05 11:39	12°M29'52	
	8322 Oct 22 18:31	0° ∡ ¹		evening max el	8323 Oct 14 20:12	23°M26'51	26°25'39
evening max el	8322 Nov 01 19:33	11° ≯ ′41′13	27°14'27		8323 Oct 25 01:58	0° ∡ ¹	
retrograde	8322 Nov 15 16:16	18° ₹ 53'06		retrograde	8323 Oct 28 18:11	0° ∡ ³32'44	
evening set	8322 Nov 22 17:31	16° ≮ 38'33			8323 Nov 01 09:15	30°RM	
min. Earth dist.	8322 Nov 26 10:15	13° ≯ 52′29	0.61323 AU	evening set	8323 Nov 04 09:42	28°M44'23	
inferior conj	8322 Nov 29 11:48	11° ≯ 10'52		min. Earth dist.	8323 Nov 08 09:34	26°M09'49	0.59234 AU
minimum elong	8322 Nov 29 18:25	10° ∡ 756'17	3°31'36	inferior conj	8323 Nov 11 14:18	23°M43'04	
morning rise	8322 Dec 06 21:36	6° ₹ 14'56		minimum elong	8323 Nov 11 21:31	23°M29'11	4°36'22
direct	8322 Dec 09 02:56	5° ₹ 54'22		morning rise	8323 Nov 19 11:41	19°M09'22	
asc. node	8322 Dec 10 21:18	6° √ 07'49	1505405	direct	8323 Nov 21 17:28	18°M51'46	
morning max el	8322 Dec 16 04:38	9° ₹ 27'58	17°54'35	asc. node	8323 Nov 27 18:20	21°M07'34	10020152
	8322 Dec 29 15:12	0°る 4°る04'32		morning max el	8323 Nov 29 14:51	22° M .43′28 0° ∡ 7	18°20'53
morning set	8322 Dec 31 20:59	4 004 32			8323 Dec 05 08:35	0° × ¹ 18° × ¹01'46	
superior conj	8323 Jan 11 08:56	22° る 52'19	0023133	morning set	8323 Dec 15 11:36 8323 Dec 21 18:55	18"×"01"46 0°る	
minimum elong	8323 Jan 11 10:56	22 332 19 23°る00'58	0°23'25		6323 Dec 21 16.33	0.0	
desc. node	8323 Jan 14 13:43	23 00038 28° る 21'34	0 23 23	superior conj	8323 Dec 24 16:05	5° ට 20'21	0°55'55
dese. Hode	8323 Jan 15 13:02	0°≈		minimum elong	8323 Dec 24 19:28	5° ප 35'46	
max. Earth dist.	8323 Jan 18 20:05	5°≈28'44	1.42765 AU	max. Earth dist.	8324 Jan 01 05:37	18° 石 44'32	1.40786 AU
evening rise	8323 Jan 25 04:27	15° ≈ 41'32		desc. node	8324 Jan 01 10:41	19° る 06'09	,
8	8323 Feb 03 12:30	0°) €		evening rise	8324 Jan 05 18:16	26° පි 20'13	
	8323 Feb 25 21:41	$0^{\circ}\Upsilon$		Ü	8324 Jan 08 00:16	0° ≈	
evening max el	8323 Feb 26 11:00	0° Υ 34'09	22°05'21		8324 Jan 28 05:46	0°) €	
retrograde	8323 Mar 07 21:37	6° Ƴ 09'49		evening max el	8324 Feb 09 02:19	14° ℋ 17'08	23°25'05
asc. node	8323 Mar 08 20:17	6° Ƴ 05'17		retrograde	8324 Feb 19 16:17	20°) 32′27	
evening set	8323 Mar 12 10:50	4° Υ 18'49		asc. node	8324 Feb 23 17:23	19°) 12′13	
	8323 Mar 16 07:19	30° ₹ ₩		evening set	8324 Feb 24 17:17	18°) €26'39	
inferior conj	8323 Mar 17 18:38	27° ¥ 58'34	2°33'54	min. Earth dist.	8324 Feb 29 14:37	12°) 43′08	0.68352 AU
minimum elong	8323 Mar 17 16:24	28° ₩ 06'19	2°33'20	inferior conj	8324 Mar 01 03:10	12°) 00′00	1°58'00
min. Earth dist.	8323 Mar 17 17:55	28° ₩ 01'02	0.68407 AU	minimum elong	8324 Mar 01 01:00	12°) €07'28	1°57'20
morning rise	8323 Mar 22 21:49	21°) (47′42		morning rise	8324 Mar 06 08:41	5°) 54'33	
direct	8323 Mar 27 17:40	19°) 44′26		direct	8324 Mar 10 14:40	4°) 13′49	
morning max el	8323 Apr 06 06:31	25° ∺ 20'38	22°20'39	morning max el	8324 Mar 18 23:07		20°58'13
	8323 Apr 10 11:26	0° Υ		desc. node	8324 Mar 29 10:24	21° ¥ 56'38	
desc. node	8323 Apr 12 13:29	2° Y 33'40			8324 Apr 04 02:07	0° Υ	

morning set	8324 Apr 18 07:08	21° Ƴ 30′15		greatest brilliancy	8325 Mar 14 20:09	9° ∺ 38'20	-0.6m
	8324 Apr 23 15:48	$_{0\circ}$ 8		desc. node	8325 Mar 16 07:20	11°) 47'49	
max. Earth dist.	8324 Apr 26 02:26	3° 8 57'03	1.42840 AU	morning set	8325 Mar 28 04:39	29°) 48'47	
					8325 Mar 28 07:34	0 ° $\mathbf{\Upsilon}$	
superior conj	8324 May 03 03:08	15° 8 37'41	-2°05'38	max. Earth dist.	8325 Apr 08 13:19	17° Ƴ 33'57	1.44394 AU
minimum elong	8324 May 03 07:29	15° 8 56'09	2°05'32				
	8324 May 11 09:46	$\Pi^{\circ}0$		superior conj	8325 Apr 13 12:12	25° Ƴ 30'24	-2°11'40
evening rise	8324 May 14 21:04	6° Ⅱ 11'01		minimum elong	8325 Apr 13 11:05	25° Y 25'55	
asc. node	8324 May 21 16:15	18° Ⅱ 11'25			8325 Apr 16 06:27	0°8	
use. node	8324 May 29 11:10	0°9		evening rise	8325 Apr 26 23:27	17° 8 54'01	
avanina may al	-		10005140	evening rise	-	0°Ⅱ	
evening max el	8324 May 31 13:09	2°518'30	18°05'40	1	8325 May 04 03:06		
retrograde	8324 Jun 07 04:05	5°942'00		asc. node	8325 May 08 13:20	7° Ⅱ 06'10	
evening set	8324 Jun 09 17:57	5° © 11'07		evening max el	8325 May 15 02:32	15° Ⅱ 37'26	18°11'11
inferior conj	8324 Jun 16 08:59	0° © 12'23	2°23'14	retrograde	8325 May 21 11:46	18° Ⅱ 59'26	
minimum elong	8324 Jun 16 12:00	0° © 05'04	2°22'17	evening set	8325 May 24 08:55	18° Ⅱ 15'58	
	8324 Jun 16 14:05	30° Ŗ Ⅱ		inferior conj	8325 May 30 10:54	12° ∏ 58'43	3°02'03
min. Earth dist.	8324 Jun 19 13:21	27° Ⅱ 08'33	0.60998 AU	minimum elong	8325 May 30 13:03	12° Ⅲ 52'48	3°01'32
morning rise	8324 Jun 23 03:37	24° Ⅱ 15′03		min. Earth dist.	8325 Jun 02 03:09	10° Ⅱ 03'33	0.63172 AU
desc. node	8324 Jun 25 09:54	22° I 59'51		morning rise	8325 Jun 05 15:42	6° Ⅱ 47'49	
direct	8324 Jun 29 18:49	22° I I02'22		direct	8325 Jun 12 10:04	4° Ⅱ 12'27	
morning max el	8324 Jul 14 01:35	0°901'32	27053108	desc. node	8325 Jun 12 06:57	4° Ⅱ 12'30	
morning max ci		0°99	27 33 08			12° I 15'32	27949125
	8324 Jul 14 00:58			morning max el	8325 Jun 26 09:24		21-48-23
	8324 Aug 04 16:12	0 $^{\circ}$ Ω			8325 Jul 10 11:49	0ංම	
morning set	8324 Aug 15 23:36	21° Ω 27'10			8325 Jul 28 03:10	$0^{\circ}\Omega$	
asc. node	8324 Aug 17 15:39	24° Ω 56'13		morning set	8325 Jul 30 20:57	5° Ω 24'11	
	8324 Aug 20 00:32	O° m y		asc. node	8325 Aug 04 12:37	15° Ω 00'32	
max. Earth dist.	8324 Aug 21 21:31	4° m 04'48	1.31834 AU	max. Earth dist.	8325 Aug 05 01:18	16° Ω 07'54	1.32497 AU
superior conj	8324 Aug 23 07:11	7° m 09'50	0°54'48	superior conj	8325 Aug 07 15:01	21° Ω 39'22	0°31'04
minimum elong	8324 Aug 23 05:06	6° m 58'19	0°54'21	minimum elong	8325 Aug 07 13:37	21° Ω 31'44	0°30'40
evening rise	8324 Aug 30 01:33	21° m/59'28	0 0 . 2 .		8325 Aug 11 11:01	0° m)	0 20 .0
evening rise	8324 Sep 02 21:35	0° ರ		evening rise	8325 Aug 14 13:11	6° Mp 40'38	
JJ.	•			evening rise	-	0. ⊽	
desc. node	8324 Sep 21 08:45	29° £ 54'37			8325 Aug 26 17:59		22020120
	8324 Sep 21 10:34	0° M		evening max el	8325 Sep 07 00:06	14° £ 40′25	23°30'20
evening max el	8324 Sep 25 12:41	4°M21'38	25°06'57	desc. node	8325 Sep 08 05:52	15° ≏ 49'32	
retrograde	8324 Oct 09 09:43	11°ML21'45		retrograde	8325 Sep 20 13:03	21° ≏ 26'47	
evening set	8324 Oct 15 02:40	10° M ₊07'41		evening set	8325 Sep 24 19:37	20° ≏ 46'51	
min. Earth dist.	8324 Oct 20 00:13	7°M26'24	0.57242 AU	min. Earth dist.	8325 Oct 01 10:02	17° ≏ 40'14	0.55653 AU
inferior conj	8324 Oct 22 21:17	5°MJ31'30	-5°24'00	inferior conj	8325 Oct 03 08:11	16° ≙ 31'53	-5°32'49
minimum elong	8324 Oct 23 01:44	5°M24'04	5°23'25	minimum elong	8325 Oct 03 05:47	16° £ 35'27	
morning rise	8324 Oct 31 03:07	1°M20'46		morning rise	8325 Oct 11 18:04	12° ≏ 38'49	
direct	8324 Nov 02 14:02	1°ML03'17		direct	8325 Oct 14 15:11	12° ≏ 18'30	
morning max el	8324 Nov 11 16:08	5°M22'58	19°08'35	morning max el	8325 Oct 25 05:17	17° ≏ 16'31	20°18'42
asc. node	8324 Nov 11 10:08 8324 Nov 13 15:19	7°M227'09	17 00 33	asc. node	8325 Oct 25 05:17 8325 Oct 31 12:18	24° £ 50'37	20 10 42
asc. node	8324 Nov 27 06:24	0° ⊼		asc. nouc		0°M	
					8325 Nov 03 18:59		
morning set	8324 Nov 28 11:32	2° ∡ ¹23'54		morning set	8325 Nov 12 17:34	17°M01'32	
	00015 06 15 10	100 30010	1010100		8325 Nov 19 00:57	0° ∡	
superior conj	8324 Dec 06 17:19	18° ∡ ³39'48	1°19'09		000537 50 := :	00 = 2	1000:10
minimum elong	8324 Dec 06 20:23	18° ∡ 54'37	1°18'58	superior conj	8325 Nov 20 07:44	2° х 36′14	
	8324 Dec 12 18:27	0°ರ		minimum elong	8325 Nov 20 09:42	2° ≯ ¹46'11	1°33'43
max. Earth dist.	8324 Dec 13 11:22	1° る 16'34	1.38620 AU	max. Earth dist.	8325 Nov 25 17:56	13° ∡ 17′10	1.36520 AU
evening rise	8324 Dec 17 06:08	7° る 57'31		evening rise	8325 Nov 29 14:11	20° ∡ ¹28'15	
desc. node	8324 Dec 18 07:41	9° 七 47'29			8325 Dec 04 23:45	0° ප	
	8324 Dec 30 22:19	0° ≈		desc. node	8325 Dec 05 04:44	0° ප 21'16	
evening max el	8325 Jan 21 15:37	28° ≈ 03'01	24°43'53		8325 Dec 24 22:13	0° ≈	
3	8325 Jan 23 17:35	0°) €		evening max el	8326 Jan 04 04:44	11°≈50'21	25°54'47
retrograde	8325 Feb 02 07:13	4°) 50'49		retrograde	8326 Jan 16 17:26	18° ≈ 59'19	
evening set	8325 Feb 07 20:42	2° H 31'46		evening set	8326 Jan 22 19:27	16°≈29'54	
•	8325 Feb 07 20:42 8325 Feb 09 14:29	0° \ 49'57		min. Earth dist.	8326 Jan 27 02:06	10 ≈29 34 11°≈55'14	0.67060 AU
asc. node							0.07000 AU
to product of	8325 Feb 10 08:06	30°R≈ 27% - 2212.4	0.63003 + * *	asc. node	8326 Jan 27 11:34	11°≈25'44	0021120
min. Earth dist.	8325 Feb 12 10:06	27° ≈ 22'34	0.67897 AU	inferior conj	8326 Jan 28 13:28	10°≈04'13	0°21'29
inferior conj	8325 Feb 13 10:05	26° ≈ 03'00	1°13'42	minimum elong	8326 Jan 28 12:55	10° ≈ 05'58	0°21'24
minimum elong	8325 Feb 13 08:27	26° ≈ 08′25	1°13'12	morning rise	8326 Feb 03 06:56	4° ≈ 14'18	
morning rise	8325 Feb 18 20:24	20° ≈ 04'22		direct	8326 Feb 06 12:31	3° ≈ 14'31	
direct	8325 Feb 22 13:27	18° ≈ 45′23		morning max el	8326 Feb 13 07:21	6° ≈ 56'55	18°52'53
morning max el	8325 Mar 01 23:26	22° ≈ 54′25	19°47'57		8326 Mar 01 21:23	0°)	
	8325 Mar 07 23:37	0° ∀		desc. node	8326 Mar 03 04:17	1°) 59′50	

morning set	8326 Mar 07 12:18	8°) 44'48		morning rise	8327 Jan 18 14:01	18° る 19'45	
C	8326 Mar 21 02:52	$0^{\circ}\mathbf{\Upsilon}$		direct	8327 Jan 21 09:54	17° る 35'43	
max. Earth dist.	8326 Mar 22 05:46	1° Y 45'29	1.45314 AU	morning max el	8327 Jan 27 21:06	21° る 02'59	18°14'15
					8327 Feb 03 21:28	0° ≈	
superior conj	8326 Mar 24 00:14	4° Υ 32'12		morning set	8327 Feb 15 23:06	19° ≈ 04'24	
minimum elong	8326 Mar 23 16:23	4°Υ01'20	1°57'47	desc. node	8327 Feb 18 01:13	22°≈26'19	
evening rise	8326 Apr 08 02:53	28° Ƴ 38'39			8327 Feb 22 18:28	0°) €	
asc. node	8326 Apr 08 22:58 8326 Apr 25 10:25	0° 呂 25° 呂 27'26		superior conj	8327 Mar 03 05:15	13°) €21'47	1°25'54
evening max el	8326 Apr 28 14:49	23 8 2720 29° 8 08'11	18°34'57	minimum elong	8327 Mar 02 19:59	13 \(2147	
evening max er	8326 Apr 29 12:36	0°II	10 5457	max. Earth dist.	8327 Mar 05 01:26		1.45505 AU
retrograde	8326 May 05 03:31	2° I I42'00		man. Barar alov.	8327 Mar 13 20:44	0°Υ	1.10000110
evening set	8326 May 08 08:03	1° Ⅱ 44'35		evening rise	8327 Mar 19 07:33	8° Y 30'03	
	8326 May 10 13:55	30° ₹ 8		greatest brilliancy	8327 Mar 30 20:22	26° Y 22'51	-0.7m
inferior conj	8326 May 14 00:52	26° 8 10'14	3°20'20		8327 Apr 02 06:08	9° 8	
minimum elong	8326 May 14 01:42	26° 8 07'42	3°20'09	evening max el	8327 Apr 11 23:34	12° 8 44'22	19°15'54
min. Earth dist.	8326 May 16 02:06	23° 8 42'04	0.65072 AU	asc. node	8327 Apr 12 07:32	13° 8 04'14	
morning rise	8326 May 19 18:34	19° 8 53'27		retrograde	8327 Apr 18 23:57	16° 8 42'07	
direct	8326 May 26 09:12	17° 8 07'20		evening set	8327 Apr 22 12:19	15° 8 30'00	2022124
desc. node	8326 May 30 03:58	17° 8 53'47	27°09'25	inferior conj	8327 Apr 27 23:20	9° と 39'56 9° と 41'21	3°22'34 3°22'27
morning max el	8326 Jun 08 19:30 8326 Jun 13 07:45	25° ႘ 01'58 0° Ⅱ	27-09-23	minimum elong min. Earth dist.	8327 Apr 27 22:54 8327 Apr 29 09:13	7° 8 50'12	0.66575 AU
	8326 Jul 13 07:43 8326 Jul 03 23:09	0°9		morning rise	8327 May 03 09:06	3° 8 21'54	0.00373 AU
morning set	8326 Jul 14 08:57	18° 9 51'21		direct	8327 May 09 09:00 8327 May 09 14:47	0° 8 37'15	
max. Earth dist.	8326 Jul 18 20:19	27°5944'54	1.33650 AU	desc. node	8327 May 17 00:58	3° 8 34'59	
	8326 Jul 19 22:41	$0^{\circ}\Omega$		morning max el	8327 May 22 05:42	8° 8 09'16	26°03'50
asc. node	8326 Jul 22 09:37	5° Ω 06'47		-	8327 Jun 08 06:59	$\Pi^{\circ}0$	
					8327 Jun 26 10:32	0°€	
superior conj	8326 Jul 22 17:52	5° Ω 50'17	0°03'30	morning set	8327 Jun 27 07:54	1° 5 38'24	
minimum elong	8326 Jul 22 17:42	5° Ω 49'21	0°03'18	max. Earth dist.	8327 Jul 01 04:37	8° 9 57'07	1.35275 AU
behind sun begin	8326 Jul 22 12:12	5° Ω 20'26					
behind sun end	8326 Jul 22 23:11	6° Ω 18'20		superior conj	8327 Jul 06 13:12	19°535'18	
evening rise	8326 Jul 30 00:01	21° Ω 16′02 0° m		minimum elong asc. node	8327 Jul 06 14:47 8327 Jul 09 06:38	19° © 43'19 25° © 10'47	0°26'54
evening max el	8326 Aug 03 06:06 8326 Aug 19 14:36	24° Mp 56'26	21°52'27	asc. node	8327 Jul 11 14:26	23 3 1047 0°Ω	
desc. node	8326 Aug 26 02:59	29° m 43'55	21 3227	evening rise	8327 Jul 14 07:58	5° Ω 39'25	
	8326 Aug 26 16:59	0∘ ಹ			8327 Jul 27 21:01	0° m)	
retrograde	8326 Sep 01 04:39	1° ≏ 11′20		evening max el	8327 Aug 01 15:50	5° m/41'33	20°27'07
evening set	8326 Sep 04 00:46	0° ≙ 53'19		retrograde	8327 Aug 12 16:54	11° m 09'11	
	8326 Sep 06 23:25	30°R, Mp		desc. node	8327 Aug 13 00:03	11° m 08'58	
inferior conj	8326 Sep 13 04:08	26° Mp 53'25		evening set	8327 Aug 14 17:12	10° m 59′05	
minimum elong	8326 Sep 12 19:23			inferior conj	8327 Aug 23 21:22	7° m 01'46	
min. Earth dist.	8326 Sep 12 18:28	27° Mp 06'57	0.54783 AU	minimum elong	8327 Aug 23 12:50	7° Mp 14'08	3°11'02
morning rise direct	8326 Sep 21 15:18 8326 Sep 25 02:31	23° Mp 04'32 22° Mp 38'05		min. Earth dist. morning rise	8327 Aug 25 04:03 8327 Sep 01 07:53	6° Mp 17'16 2° Mp 57'05	0.54831 AU
morning max el	8326 Oct 07 05:27	28° m) 21'05	210/10/32	direct	8327 Sep 01 07:33 8327 Sep 05 11:46	2° my 19'54	
morning max ci	8326 Oct 07 03:27 8326 Oct 08 21:19	ე∘ <u>ი</u>	21 47 32	morning max el	8327 Sep 03 11:40 8327 Sep 18 20:18	8° Mp 47'52	23°33'50
asc. node	8326 Oct 18 09:16	13° ≏ 03'55		morning must vi	8327 Oct 04 04:57	0∘ ರ	20 00 00
	8326 Oct 27 06:34	0°M₁		asc. node	8327 Oct 05 06:15	1° £ 55'15	
morning set	8326 Oct 28 03:18	1°M48'04		morning set	8327 Oct 12 14:51	16° ≏ 38′22	
					8327 Oct 18 19:19	0° M	
superior conj	8326 Nov 04 07:27	16°M58'29	1°40'34				
minimum elong	8326 Nov 04 08:05	17°M01'50	1°40'40	superior conj	8327 Oct 19 13:26	1°M37'57	
max. Earth dist.	8326 Nov 08 06:45	25°M10'11	1.34696 AU	minimum elong	8327 Oct 19 12:51	1°M34'47	1°40'40
	8326 Nov 10 16:51	0°⊀ 7 39. ₹ 43!44		max. Earth dist.	8327 Oct 22 03:59	7°M12'45	1.33263 AU
evening rise desc. node	8326 Nov 12 14:44 8326 Nov 22 01:47	3° х 42'44 20° х 42'29		evening rise	8327 Oct 27 03:55 8327 Nov 02 17:01	17° M .31'17 0° √	
desc. Hode	8326 Nov 27 20:24	20 メ ・42 29 0°る		desc. node	8327 Nov 08 22:50	10° ∡ ¹45'15	
evening max el	8326 Nov 27 20:24 8326 Dec 17 18:08		26°50'15	dose. Hode	8327 Nov 08 22:30 8327 Nov 22 05:33	10 × 43 13	
	8326 Dec 23 03:53	0°≈		evening max el	8327 Nov 30 06:47	8° る 57'25	27°23'03
retrograde	8326 Dec 30 21:58	2° ≈ 50'34		retrograde	8327 Dec 13 20:10	16° ප 17'03	
evening set	8327 Jan 06 11:35	0° ≈ 15'12		evening set	8327 Dec 20 18:46	13° る 42'12	
	8327 Jan 06 19:02	30°R₹		min. Earth dist.	8327 Dec 24 14:14	10° ප 15'16	0.64323 AU
min. Earth dist.	8327 Jan 10 12:14		0.65861 AU	inferior conj	8327 Dec 27 00:50	7° ප් 40'17	
inferior conj	8327 Jan 12 11:11	23° る 58'26		minimum elong	8327 Dec 27 04:02	7° る 31'46	1°42'33
minimum elong	8327 Jan 12 12:16	23°る55'17	0°37′32	asc. node	8328 Jan 01 05:41	2°る59'33	
asc. node	8327 Jan 14 08:39	21° る 49'52		morning rise	8328 Jan 02 14:55	2° る 15'50	

direct	8328 Jan 05 03:06	1° る 43'49		direct	8328 Dec 18 12:56	15° ∡ 731'11	
morning max el	8328 Jan 11 14:03	5° ට 06'15	17°52'36	morning max el	8328 Dec 25 07:05	18° × 58'08	17°48'34
	8328 Jan 28 03:07	0° ≈			8329 Jan 02 08:28	0°る	
morning set	8328 Jan 28 14:42	0°≈48'53		morning set	8329 Jan 10 05:20	13° る 38'59	
desc. node	8328 Feb 04 22:11	13° ≈ 02'57		Č	8329 Jan 19 13:55	0° ≈	
superior conj	8328 Feb 10 22:32	22° ≈ 51'30		superior conj	8329 Jan 21 15:47	3° ≈ 31'18	0°01'02
minimum elong	8328 Feb 10 17:40	22° ≈ 31'54	0°41'52	minimum elong	8329 Jan 21 15:53	3° ≈ 31'45	0°01'10
	8328 Feb 15 09:53	0° ∀		behind sun begin	8329 Jan 21 06:58	2° ≈ 54'08	
max. Earth dist.	8328 Feb 15 21:03	0°) 44'11	1.44951 AU	behind sun end	8329 Jan 22 00:49	4°≈09'18	
evening rise	8328 Feb 26 21:08	17° ¥ 51′27		desc. node	8329 Jan 21 19:08	3°≈45'24	
	8328 Mar 05 20:38	0° Υ	0.6	max. Earth dist.	8329 Jan 28 13:31	14°≈54'13	1.43717 AU
greatest brilliancy	8328 Mar 12 15:28	10° Y 05'03	-0.6m	evening rise	8329 Feb 05 09:47	27°≈18'15	
evening max el	8328 Mar 25 03:11	26° Y 22'33	20°12'21		8329 Feb 07 03:41	0° ∀ 0° Υ	
asc. node	8328 Mar 29 04:37	29° Y 43'42 0° と		avanina may al	8329 Feb 27 17:32	10° Υ 01'46	21°21'32
ratragrada	8328 Mar 29 16:10 8328 Apr 01 22:22	0° 8 54'25		evening max el asc. node	8329 Mar 08 01:13 8329 Mar 16 01:41	15° Y 10'56	21 21 32
retrograde	8328 Apr 05 00:02	0 O 3423		retrograde	8329 Mar 16 01:41 8329 Mar 16 20:42	15° Υ 10'30	
evening set	8328 Apr 05 19:27	30 K 1 29° Υ 27'14		evening set	8329 Mar 21 03:34	13° Υ 31'52	
inferior conj	8328 Apr 11 03:27	23° Y 27° 19	3°11'57	inferior conj	8329 Mar 26 10:53	7° Υ 16'34	2°50'36
minimum elong	8328 Apr 11 03:27	23° Υ 28'11	3°11'42	minimum elong	8329 Mar 26 08:49	7° Υ 23'42	2°50'08
min. Earth dist.	8328 Apr 11 22:58	22°Υ17'03	0.67633 AU	min. Earth dist.	8329 Mar 26 17:15	6°Υ54'25	0.68240 AU
morning rise	8328 Apr 16 08:23	17° Y 06'39	0.07033710	morning rise	8329 Mar 31 13:53	1° Y 03'01	0.00210110
direct	8328 Apr 22 01:52	14° Υ 33'20		morning rise	8329 Apr 01 22:36	30° R ₩	
desc. node	8328 May 02 21:57	20° Υ 45'46		direct	8329 Apr 05 17:42	28°) (47'40	
morning max el	8328 May 03 15:03	21° Υ 28'19	24°41'10		8329 Apr 09 21:48	$_{0}$ $^{\circ}$ γ	
S	8328 May 11 00:29	0°8		morning max el	8329 Apr 16 00:40	4° Ƴ 54'33	23°11'37
	8328 May 31 13:00	Π°		desc. node	8329 Apr 19 18:54	9° Ƴ 01'32	
morning set	8328 Jun 08 13:06	13° Ⅱ 33'01			8329 May 05 07:30	8° 0	
max. Earth dist.	8328 Jun 12 03:59	20° Ⅱ 02'36	1.37296 AU	morning set	8329 May 20 19:04	24° 8 21'22	
	8328 Jun 17 11:29	0ංම			8329 May 24 02:58	$\Pi^{\circ}0$	
				max. Earth dist.	8329 May 25 00:03	1° Ⅱ 30′56	1.39529 AU
superior conj	8328 Jun 18 21:53	2°5946'15	-0°58'57				
minimum elong	8328 Jun 19 01:31	3° © 03'55	0°58'29	superior conj	8329 Jun 01 16:02	15° Ⅱ 14'10	-1°29'40
asc. node	8328 Jun 25 03:38	15° © 08'22		minimum elong	8329 Jun 01 21:26	15° Ⅱ 39′09	1°29'06
evening rise	8328 Jun 27 10:38	19° 5 43'50			8329 Jun 09 11:10	0 \circ \odot	
	8328 Jul 02 17:10	$0^{\circ}\Omega$		evening rise	8329 Jun 11 05:06	3°521'44	
evening max el	8328 Jul 14 06:16	17° Ω 10′18	19°21'05	asc. node	8329 Jun 12 00:39	4° © 55'40	
retrograde	8328 Jul 23 14:39	21° Ω 47'33		evening max el	8329 Jun 27 07:57	29° © 22'15	18°35'58
evening set	8328 Jul 25 11:25	21° Ω 37'17			8329 Jun 27 23:55	0°N	
desc. node	8328 Jul 29 21:09	20° Ω 01'38	1015105	retrograde	8329 Jul 05 06:01	3° Ω 18′27	
inferior conj	8328 Aug 03 02:12	17° Ω 29'09		evening set	8329 Jul 07 08:02	3° £ 03′01	
minimum elong	8328 Aug 02 22:44	17° Ω 34'49 15° Ω 46'55	1°16'14 0.55812 AU	::	8329 Jul 13 06:32	30°R≌	0°28'59
min. Earth dist. morning rise	8328 Aug 05 16:52 8328 Aug 11 07:20	13 δ (46 33 12° Ω 51'09	0.55812 AU	inferior conj minimum elong	8329 Jul 15 03:22 8329 Jul 15 04:26	28°536'32 28°534'30	0°28'25
direct	8328 Aug 11 07:20 8328 Aug 16 06:38	12 δι 51 09		desc. node	8329 Jul 16 18:14	28 \$3430 27°\$21'48	0 28 23
morning max el	8328 Aug 30 08:51	11° € 34'39	25°17'32	min. Earth dist.	8329 Jul 10 18:14 8329 Jul 18 10:34	26°506'06	0.57544 AU
morning max er	8328 Sep 08 14:24	0° m)	23 1732	morning rise	8329 Jul 22 21:18	23° 5 21'28	0.57511110
asc. node	8328 Sep 21 03:12	21° Mp 14'11		direct	8329 Jul 28 16:25	21°957'02	
	8328 Sep 25 10:09	0∘ <u>⊽</u>		morning max el	8329 Aug 12 01:14	29°532'17	26°43'32
morning set	8328 Sep 26 02:26	1° £ 26′20			8329 Aug 12 12:31	$0^{\circ}\Omega$	
	•				8329 Sep 02 09:54	0° m y	
superior conj	8328 Oct 02 23:15	16° ≏ 26'12	1°34'34	asc. node	8329 Sep 08 00:10	10° m 53'17	
minimum elong	8328 Oct 02 21:42	16° ≏ 17'44	1°34'30	morning set	8329 Sep 10 12:27	16° Mp 07'17	
max. Earth dist.	8328 Oct 04 08:28	19° ≙ 28'25	1.32273 AU		8329 Sep 16 20:59	0∘ ⊽	
	8328 Oct 09 06:19	0° M ₊					
evening rise	8328 Oct 10 02:19	1°M43'55		superior conj	8329 Sep 17 10:52		1°23'03
desc. node	8328 Oct 25 19:54	0° ≯ 20'51		minimum elong	8329 Sep 17 08:45	1° ≏ 05'18	1°22'48
	8328 Oct 25 14:35	0° ∡		max. Earth dist.	8329 Sep 17 17:28	1° ≏ 53'37	1.31742 AU
evening max el	8328 Nov 11 16:38	21° ₹ 52'45	27°26'57	evening rise	8329 Sep 24 07:15	16° ≏ 13'18	
retrograde	8328 Nov 25 11:32	29° ∡ 08'44			8329 Oct 01 04:16	0°M	
evening set	8328 Dec 02 14:01	26° х 43′22		desc. node	8329 Oct 12 16:58	19° M .18'27	
min. Earth dist.	8328 Dec 06 06:18	23° ∡ 45′06	0.62483 AU		8329 Oct 20 22:24	0° ∡ 7	
inferior conj	8328 Dec 09 03:27	21°×701'48		evening max el	8329 Oct 24 21:19	4° ₹ 06'31	26°57'40
minimum elong	8328 Dec 09 08:57	20° 🖈 48'46	2°51'37	retrograde	8329 Nov 07 19:06	11° 🖈 16'36	
morning rise	8328 Dec 16 06:02	15° 🗷 54'51		evening set	8329 Nov 14 17:28	9° x 11'46	0.60426.433
asc. node	8328 Dec 18 02:43	15° ∡ 32'01		min. Earth dist.	8329 Nov 18 11:50	6° ≯ 32'26	0.60436 AU

inferior conj	8329 Nov 21 15:46	3° ∡ 754'50	-4°02'34	minimum elong	8330 Nov 03 16:53	15°M58'02	4°59'35
minimum elong	8329 Nov 21 13:46	3° х 34′50′		morning rise	8330 Nov 11 11:46	11°M45'50	4 37 33
minimum ciong	8329 Nov 27 03:14	30°RM	4 00 10	direct	8330 Nov 13 19:01	11°M28'40	
morning rise	8329 Nov 29 06:47	29°M08'16		asc. node	8330 Nov 21 20:45	15°M15'02	
direct	8329 Dec 01 11:36	28°M49'29		morning max el	8330 Nov 22 03:42		18°38'24
asc. node	8329 Dec 04 23:45	29°M39'25		morning man vi	8330 Dec 02 06:22	0° ⊼	10 30 2 .
use. Itsue	8329 Dec 05 15:32	0° ⊼		morning set	8330 Dec 08 07:49	11° ₹ 25'35	
morning max el	8329 Dec 08 20:50	2° × ⁷ 29'51	18°03'15	morning sec	0550 200 00 07.15	11 7 20 30	
morning set	8329 Dec 24 12:43	27° х 15'59		superior conj	8330 Dec 17 01:39	28° х 14'34	1°06'53
. 8	8329 Dec 25 23:59	0°る		minimum elong	8330 Dec 17 05:03	28° х 30′27	1°06'37
					8330 Dec 18 00:15	0° ට	
superior conj	8330 Jan 03 10:10	15° る 22'46	0°38'24	max. Earth dist.	8330 Dec 24 08:40	11° る 27'32	1.39874 AU
minimum elong	8330 Jan 03 13:00	15° る 35'22	0°38'09	desc. node	8330 Dec 26 13:03	15° る 14'03	
desc. node	8330 Jan 08 16:03	24° る 30'05		evening rise	8330 Dec 28 11:12	18° る 29'40	
max. Earth dist.	8330 Jan 11 01:09	28° ප 30'41	1.41956 AU	Č	8331 Jan 04 13:13	0° ≈	
	8330 Jan 11 22:37	0° ≈			8331 Jan 25 17:21	0° ∀	
evening rise	8330 Jan 16 11:54	7° ≈ 25'08		evening max el	8331 Feb 01 08:55	7°) €28'13	23°59'15
	8330 Jan 31 08:01	0° ∀		retrograde	8331 Feb 12 10:13	13° ¥ 58′08	
evening max el	8330 Feb 18 18:30	23°) 42′56	22°39'06	evening set	8331 Feb 17 16:24	11°)(46'43	
retrograde	8330 Feb 28 17:04	29°) (36′37		asc. node	8331 Feb 17 19:53	11°) 39'12	
asc. node	8330 Mar 02 22:47	29° 升 11′25		min. Earth dist.	8331 Feb 22 10:17	6°) (17′40	0.68205 AU
evening set	8330 Mar 05 11:03	27°) 39′24		inferior conj	8331 Feb 23 03:38	5°) 18'48	1°40'13
inferior conj	8330 Mar 10 19:33	21°) (15′54	2°19'45	minimum elong	8331 Feb 23 01:38	5°) €25'37	1°39'36
minimum elong	8330 Mar 10 17:17	21°)(23'46	2°19'07		8331 Feb 27 13:57	30°R≈	
min. Earth dist.	8330 Mar 10 13:47	21°) 35′56	0.68424 AU	morning rise	8331 Feb 28 10:53	29° ≈ 15'55	
morning rise	8330 Mar 15 23:23	15°) €06'55		direct	8331 Mar 04 11:19	27° ≈ 44'24	
direct	8330 Mar 20 13:13	13°) 13′04			8331 Mar 09 20:45	0° ∀	
morning max el	8330 Mar 29 13:34	18°) 28′21	21°44'22	morning max el	8331 Mar 12 09:11	2°) 14′03	20°26'36
desc. node	8330 Apr 06 15:49	28°) €03'43		desc. node	8331 Mar 24 12:45	17°) €39'56	
	8330 Apr 08 02:44	$0^{\circ}\mathbf{\Upsilon}$			8331 Apr 01 22:04	0° Y	
	8330 Apr 28 10:49	0°8		morning set	8331 Apr 10 00:38	12° Ƴ 22'24	
morning set	8330 Apr 30 21:30	3° 8 52'30		max. Earth dist.	8331 Apr 19 06:48	26° Ƴ 58'33	1.43573 AU
max. Earth dist.	8330 May 06 23:36	13° 8 46'45	1.41715 AU		8331 Apr 21 03:42	9° 8	
	9220 M 14 14-50	260 47120	1055117		0221 A 25 14.26	70 🔾 17/50	2010110
superior conj	8330 May 14 14:59	26° 8 47'38		superior conj	8331 Apr 25 14:26	7° 8 17'59	
superior conj minimum elong	8330 May 14 20:37	27° 8 12'18		minimum elong	8331 Apr 25 16:57	7° 8 28'24	
minimum elong	8330 May 14 20:37 8330 May 16 10:43	27° ႘ 12'18 0° 川		1 3	8331 Apr 25 16:57 8331 May 08 01:28	7° 8 28'24 28° 8 36'58	
minimum elong	8330 May 14 20:37 8330 May 16 10:43 8330 May 25 11:31	27° 8 12'18 0° П 16° П 22'42		minimum elong evening rise	8331 Apr 25 16:57 8331 May 08 01:28 8331 May 08 20:27	7° 8 28′24 28° 8 36′58 0° 1	
minimum elong	8330 May 14 20:37 8330 May 16 10:43 8330 May 25 11:31 8330 May 29 21:42	27° 8 12'18 0° I 16° I 22'42 24° I 27'13		minimum elong evening rise asc. node	8331 Apr 25 16:57 8331 May 08 01:28 8331 May 08 20:27 8331 May 16 18:46	7° 8 28'24 28° 8 36'58 0°Ⅲ 13°Ⅲ37'27	2°10'21
minimum elong evening rise asc. node	8330 May 14 20:37 8330 May 16 10:43 8330 May 25 11:31 8330 May 29 21:42 8330 Jun 02 01:31	27° ႘ 12'18 0°Ⅲ 16°Ⅲ22'42 24°Ⅲ27'13 0°ℱ	1°54'58	minimum elong evening rise asc. node evening max el	8331 Apr 25 16:57 8331 May 08 01:28 8331 May 08 20:27 8331 May 16 18:46 8331 May 25 05:54	7°828'24 28°836'58 0°Ⅲ 13°Ⅲ37'27 25°Ⅲ17'08	
minimum elong evening rise asc. node evening max el	8330 May 14 20:37 8330 May 16 10:43 8330 May 25 11:31 8330 May 29 21:42 8330 Jun 02 01:31 8330 Jun 10 17:05	27° ႘ 12'18 0°Ⅲ 16°Ⅲ22'42 24°Ⅲ27'13 0°ᢒ 12°ᢒ07'44		minimum elong evening rise asc. node evening max el retrograde	8331 Apr 25 16:57 8331 May 08 01:28 8331 May 08 20:27 8331 May 16 18:46 8331 May 25 05:54 8331 May 31 17:00	7° 8 28'24 28° 8 36'58 0° П 13° П 37'27 25° П 17'08 28° П 37'56	2°10'21
minimum elong evening rise asc. node evening max el retrograde	8330 May 14 20:37 8330 May 16 10:43 8330 May 25 11:31 8330 May 29 21:42 8330 Jun 02 01:31 8330 Jun 10 17:05 8330 Jun 17 15:55	27°812'18 0°11 16°1122'42 24°1127'13 0°95 12°9507'44 15°9538'17	1°54'58	minimum elong evening rise asc. node evening max el retrograde evening set	8331 Apr 25 16:57 8331 May 08 01:28 8331 May 08 20:27 8331 May 16 18:46 8331 May 25 05:54 8331 May 31 17:00 8331 Jun 03 10:08	7° 8 28'24 28° 8 36'58 0° П 13° П 37'27 25° П 17'08 28° П 37'56 28° П 01'44	2°10′21 18°05′46
minimum elong evening rise asc. node evening max el retrograde evening set	8330 May 14 20:37 8330 May 16 10:43 8330 May 25 11:31 8330 May 29 21:42 8330 Jun 02 01:31 8330 Jun 10 17:05 8330 Jun 17 15:55 8330 Jun 20 01:33	27°8/12'18 0°11 16°1122'42 24°1127'13 0°55 12°5007'44 15°538'17 15°5313'46	1°54'58 18°11'09	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj	8331 Apr 25 16:57 8331 May 08 01:28 8331 May 08 20:27 8331 May 16 18:46 8331 May 25 05:54 8331 May 31 17:00 8331 Jun 03 10:08 8331 Jun 09 19:05	7° 8 28'24 28° 8 36'58 0° П 13° П 37'27 25° П 17'08 28° П 37'56 28° П 01'44 22° П 54'51	2°10'21 18°05'46 2°42'28
evening rise asc. node evening max el retrograde evening set inferior conj	8330 May 14 20:37 8330 May 16 10:43 8330 May 25 11:31 8330 May 29 21:42 8330 Jun 02 01:31 8330 Jun 10 17:05 8330 Jun 17 15:55 8330 Jun 20 01:33 8330 Jun 27 01:58	27°812'18 0°11 16°1122'42 24°1127'13 0°59 12°5907'44 15°5938'17 15°5913'46 10°5926'45	1°54'58 18°11'09 1°49'32	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	8331 Apr 25 16:57 8331 May 08 01:28 8331 May 08 20:27 8331 May 16 18:46 8331 May 25 05:54 8331 May 31 17:00 8331 Jun 03 10:08 8331 Jun 09 19:05 8331 Jun 09 21:51	7° 8 28'24 28° 8 36'58 0° П 13° Л 37'27 25° Л 17'08 28° Л 37'56 28° Л 01'44 22° Л 54'51 22° Л 47'47	2°10'21 18°05'46 2°42'28 2°41'42
evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	8330 May 14 20:37 8330 May 16 10:43 8330 May 25 11:31 8330 May 29 21:42 8330 Jun 02 01:31 8330 Jun 10 17:05 8330 Jun 17 15:55 8330 Jun 20 01:33 8330 Jun 27 01:58 8330 Jun 27 04:54	27°812'18 0°11 16°1122'42 24°1127'13 0°59 12°5907'44 15°5938'17 15°5913'46 10°5926'45 10°5920'10	1°54'58 18°11'09 1°49'32 1°48'27	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	8331 Apr 25 16:57 8331 May 08 01:28 8331 May 08 20:27 8331 May 16 18:46 8331 May 25 05:54 8331 May 31 17:00 8331 Jun 03 10:08 8331 Jun 09 19:05 8331 Jun 09 21:51 8331 Jun 12 18:51	7°828'24 28°836'58 0°П 13°П37'27 25°П17'08 28°П37'56 28°П01'44 22°П54'51 22°П47'47	2°10'21 18°05'46 2°42'28
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	8330 May 14 20:37 8330 May 16 10:43 8330 May 25 11:31 8330 May 29 21:42 8330 Jun 02 01:31 8330 Jun 10 17:05 8330 Jun 17 15:55 8330 Jun 20 01:33 8330 Jun 27 01:58 8330 Jun 27 04:54 8330 Jun 30 10:37	27°812'18 0° II 16° II 22'42 24° II 27'13 0° © 12° © 07'44 15° © 38'17 15° © 13'46 10° © 26'45 10° © 20'10 7° © 28'10	1°54'58 18°11'09 1°49'32	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8331 Apr 25 16:57 8331 May 08 01:28 8331 May 08 20:27 8331 May 16 18:46 8331 May 25 05:54 8331 May 31 17:00 8331 Jun 03 10:08 8331 Jun 09 19:05 8331 Jun 09 21:51 8331 Jun 12 18:51 8331 Jun 16 07:37	7°828'24 28°836'58 0°П 13°П37'27 25°П17'08 28°П37'56 28°П01'44 22°П54'51 22°П47'47 19°П52'20 16°П50'56	2°10'21 18°05'46 2°42'28 2°41'42
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node	8330 May 14 20:37 8330 May 16 10:43 8330 May 25 11:31 8330 May 29 21:42 8330 Jun 02 01:31 8330 Jun 10 17:05 8330 Jun 17 15:55 8330 Jun 20 01:33 8330 Jun 27 01:58 8330 Jun 27 04:54 8330 Jun 30 10:37 8330 Jul 03 15:18	27°812'18 0° II 16° II 22'42 24° II 27'13 0° © 12° © 07'44 15° © 38'17 15° © 13'46 10° © 26'45 10° © 20'10 7° © 28'10 5° © 03'43	1°54'58 18°11'09 1°49'32 1°48'27	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	8331 Apr 25 16:57 8331 May 08 01:28 8331 May 08 20:27 8331 May 16 18:46 8331 May 25 05:54 8331 May 31 17:00 8331 Jun 03 10:08 8331 Jun 09 19:05 8331 Jun 09 21:51 8331 Jun 12 18:51 8331 Jun 16 07:37 8331 Jun 20 12:20	7°828'24 28°836'58 0°Ш 13°Ш37'27 25°Ш17'08 28°Ш37'56 28°Ш01'44 22°Ш54'51 22°Щ47'47 19°Ш52'20 16°Ш50'56 14°Ш47'26	2°10'21 18°05'46 2°42'28 2°41'42
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise	8330 May 14 20:37 8330 May 16 10:43 8330 May 25 11:31 8330 May 29 21:42 8330 Jun 02 01:31 8330 Jun 10 17:05 8330 Jun 17 15:55 8330 Jun 20 01:33 8330 Jun 27 01:58 8330 Jun 27 04:54 8330 Jun 30 10:37 8330 Jul 03 15:18 8330 Jul 04 05:18	27°812'18 0°II 16°II22'42 24°II27'13 0°S 12°S07'44 15°S38'17 15°S13'46 10°S26'45 10°S26'45 10°S28'10 5°S03'43 4°S42'03	1°54'58 18°11'09 1°49'32 1°48'27	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	8331 Apr 25 16:57 8331 May 08 01:28 8331 May 08 20:27 8331 May 16 18:46 8331 May 25 05:54 8331 May 31 17:00 8331 Jun 03 10:08 8331 Jun 09 19:05 8331 Jun 09 21:51 8331 Jun 12 18:51 8331 Jun 16 07:37 8331 Jun 20 12:20 8331 Jun 23 01:13	7°828'24 28°836'58 0°Ш 13°Ш37'27 25°Ш17'08 28°Ш37'56 28°Ш01'44 22°Ш54'51 22°Ш47'47 19°Ш52'20 16°Ш50'56 14°Ш47'26 14°Ш27'27	2°10'21 18°05'46 2°42'28 2°41'42 0.61952 AU
evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct	8330 May 14 20:37 8330 May 16 10:43 8330 May 25 11:31 8330 May 29 21:42 8330 Jun 02 01:31 8330 Jun 10 17:05 8330 Jun 17 15:55 8330 Jun 20 01:33 8330 Jun 27 04:54 8330 Jun 30 10:37 8330 Jun 03 15:18 8330 Jul 04 05:18 8330 Jul 10 15:30	27°812'18 0°II 16°II22'42 24°II27'13 0°S 12°S07'44 15°S38'17 15°S13'46 10°S26'45 10°S26'45 10°S28'10 5°S03'43 4°S42'03 2°S45'53	1°54'58 18°11'09 1°49'32 1°48'27 0.59705 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	8331 Apr 25 16:57 8331 May 08 01:28 8331 May 08 20:27 8331 May 16 18:46 8331 May 25 05:54 8331 May 31 17:00 8331 Jun 03 10:08 8331 Jun 09 19:05 8331 Jun 09 21:51 8331 Jun 12 18:51 8331 Jun 16 07:37 8331 Jun 20 12:20 8331 Jun 23 01:13 8331 Jul 07 05:03	7°828'24 28°836'58 0°	2°10'21 18°05'46 2°42'28 2°41'42 0.61952 AU
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise	8330 May 14 20:37 8330 May 16 10:43 8330 May 25 11:31 8330 May 29 21:42 8330 Jun 02 01:31 8330 Jun 10 17:05 8330 Jun 17 15:55 8330 Jun 20 01:33 8330 Jun 27 01:58 8330 Jun 27 04:54 8330 Jun 30 10:37 8330 Jul 03 15:18 8330 Jul 04 05:18 8330 Jul 10 15:30 8330 Jul 24 23:59	27°812'18 0°II 16°II22'42 24°II27'13 0°S 12°S07'44 15°S38'17 15°S13'46 10°S26'45 10°S26'45 10°S20'10 7°S28'10 5°S03'43 4°S42'03 2°S45'53 10°S38'30	1°54'58 18°11'09 1°49'32 1°48'27 0.59705 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	8331 Apr 25 16:57 8331 May 08 01:28 8331 May 08 20:27 8331 May 16 18:46 8331 May 25 05:54 8331 May 31 17:00 8331 Jun 03 10:08 8331 Jun 09 19:05 8331 Jun 09 21:51 8331 Jun 12 18:51 8331 Jun 16 07:37 8331 Jun 20 12:20 8331 Jun 23 01:13 8331 Jul 07 05:03 8331 Jul 13 20:09	7°828'24 28°836'58 0°	2°10'21 18°05'46 2°42'28 2°41'42 0.61952 AU
evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el	8330 May 14 20:37 8330 May 16 10:43 8330 May 25 11:31 8330 May 29 21:42 8330 Jun 02 01:31 8330 Jun 10 17:05 8330 Jun 17 15:55 8330 Jun 20 01:33 8330 Jun 27 01:58 8330 Jun 27 04:54 8330 Jun 30 10:37 8330 Jul 03 15:18 8330 Jul 04 05:18 8330 Jul 10 15:30 8330 Jul 24 23:59 8330 Aug 09 00:51	27°812'18 0°II 16°II22'42 24°II27'13 0°I 12°II27'13 0°I 12°II27'14 15°II3'46 10°II26'45	1°54'58 18°11'09 1°49'32 1°48'27 0.59705 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	8331 Apr 25 16:57 8331 May 08 01:28 8331 May 08 20:27 8331 May 16 18:46 8331 May 25 05:54 8331 May 31 17:00 8331 Jun 03 10:08 8331 Jun 09 19:05 8331 Jun 09 21:51 8331 Jun 12 18:51 8331 Jun 16 07:37 8331 Jun 20 12:20 8331 Jun 23 01:13 8331 Jul 07 05:03 8331 Jul 13 20:09 8331 Aug 02 05:22	7°828'24 28°836'58 0°	2°10'21 18°05'46 2°42'28 2°41'42 0.61952 AU
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el morning set	8330 May 14 20:37 8330 May 16 10:43 8330 May 25 11:31 8330 May 29 21:42 8330 Jun 02 01:31 8330 Jun 10 17:05 8330 Jun 17 15:55 8330 Jun 20 01:33 8330 Jun 27 01:58 8330 Jun 27 04:54 8330 Jun 30 10:37 8330 Jul 03 15:18 8330 Jul 04 05:18 8330 Jul 04 05:18 8330 Jul 10 15:30 8330 Jul 24 23:59 8330 Aug 09 00:51 8330 Aug 25 19:10	27°812'18 0°11 16°1122'42 24°1127'13 0°9 12°907'44 15°938'17 15°913'46 10°926'45 10°920'10 7°928'10 5°903'43 4°942'03 2°945'53 10°938'30 0°10 0°1035'43	1°54'58 18°11'09 1°49'32 1°48'27 0.59705 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	8331 Apr 25 16:57 8331 May 08 01:28 8331 May 08 20:27 8331 May 16 18:46 8331 May 25 05:54 8331 May 31 17:00 8331 Jun 03 10:08 8331 Jun 09 19:05 8331 Jun 09 21:51 8331 Jun 12 18:51 8331 Jun 16 07:37 8331 Jun 20 12:20 8331 Jun 23 01:13 8331 Jul 07 05:03 8331 Jul 13 20:09 8331 Aug 02 05:22 8331 Aug 09 20:38	7°828'24 28°836'58 0°	2°10'21 18°05'46 2°42'28 2°41'42 0.61952 AU
evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el	8330 May 14 20:37 8330 May 16 10:43 8330 May 25 11:31 8330 May 29 21:42 8330 Jun 02 01:31 8330 Jun 10 17:05 8330 Jun 17 15:55 8330 Jun 20 01:33 8330 Jun 27 01:58 8330 Jun 27 04:54 8330 Jun 30 10:37 8330 Jul 03 15:18 8330 Jul 04 05:18 8330 Jul 04 05:18 8330 Jul 10 15:30 8330 Jul 24 23:59 8330 Aug 09 00:51 8330 Aug 25 19:10 8330 Aug 25 21:08	27°812'18 0° Π 16° Π22'42 24° Π27'13 0° 9 12° 907'44 15° 938'17 15° 913'46 10° 926'45 10° 920'10 7° 928'10 5° 903'43 4° 942'03 2° 945'53 10° 938'30 0° Ω 0° № 35'43 0° № 46'02	1°54'58 18°11'09 1°49'32 1°48'27 0.59705 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node	8331 Apr 25 16:57 8331 May 08 01:28 8331 May 08 02:27 8331 May 16 18:46 8331 May 25 05:54 8331 May 31 17:00 8331 Jun 03 10:08 8331 Jun 09 19:05 8331 Jun 09 21:51 8331 Jun 12 18:51 8331 Jun 16 07:37 8331 Jun 20 12:20 8331 Jun 23 01:13 8331 Jul 07 05:03 8331 Jul 13 20:09 8331 Aug 02 05:22 8331 Aug 09 20:38 8331 Aug 12 18:06	7°828'24 28°836'58 0° Π 13° Π37'27 25° Π17'08 28° Π37'56 28° Π01'44 22° Π54'51 22° Π47'47 19° Π52'20 16° Π50'56 14° Π47'26 14° Π27'27 22° Π28'35 0° © 0° Ω 14° Ω46'14 20° Ω47'35	2°10'21 18°05'46 2°42'28 2°41'42 0.61952 AU 27°55'38
evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el morning set asc. node	8330 May 14 20:37 8330 May 16 10:43 8330 May 25 11:31 8330 May 29 21:42 8330 Jun 02 01:31 8330 Jun 10 17:05 8330 Jun 17 15:55 8330 Jun 20 01:33 8330 Jun 27 01:58 8330 Jun 27 04:54 8330 Jun 30 10:37 8330 Jul 03 15:18 8330 Jul 04 05:18 8330 Jul 04 05:18 8330 Jul 10 15:30 8330 Jul 24 23:59 8330 Aug 09 00:51 8330 Aug 25 19:10 8330 Aug 25 12:19	27°812'18 0°11 16°122'42 24°1127'13 0°9 12°907'44 15°938'17 15°913'46 10°926'45 10°920'10 7°928'10 5°903'43 4°942'03 2°945'53 10°938'30 0°0 0°1035'43 0°1046'02 0°106	1°54'58 18°11'09 1°49'32 1°48'27 0.59705 AU 27°38'24	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	8331 Apr 25 16:57 8331 May 08 01:28 8331 May 08 20:27 8331 May 16 18:46 8331 May 25 05:54 8331 May 31 17:00 8331 Jun 03 10:08 8331 Jun 09 19:05 8331 Jun 09 21:51 8331 Jun 12 18:51 8331 Jun 16 07:37 8331 Jun 20 12:20 8331 Jun 23 01:13 8331 Jul 07 05:03 8331 Jul 13 20:09 8331 Aug 02 05:22 8331 Aug 09 20:38	7°828'24 28°836'58 0°	2°10'21 18°05'46 2°42'28 2°41'42 0.61952 AU
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el morning set	8330 May 14 20:37 8330 May 16 10:43 8330 May 25 11:31 8330 May 29 21:42 8330 Jun 02 01:31 8330 Jun 10 17:05 8330 Jun 17 15:55 8330 Jun 20 01:33 8330 Jun 27 01:58 8330 Jun 27 04:54 8330 Jun 30 10:37 8330 Jul 03 15:18 8330 Jul 04 05:18 8330 Jul 04 05:18 8330 Jul 10 15:30 8330 Jul 24 23:59 8330 Aug 09 00:51 8330 Aug 25 19:10 8330 Aug 25 21:08	27°812'18 0° Π 16° Π22'42 24° Π27'13 0° 9 12° 907'44 15° 938'17 15° 913'46 10° 926'45 10° 920'10 7° 928'10 5° 903'43 4° 942'03 2° 945'53 10° 938'30 0° Ω 0° № 35'43 0° № 46'02	1°54'58 18°11'09 1°49'32 1°48'27 0.59705 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist.	8331 Apr 25 16:57 8331 May 08 01:28 8331 May 08 01:28 8331 May 08 20:27 8331 May 16 18:46 8331 May 25 05:54 8331 May 31 17:00 8331 Jun 03 10:08 8331 Jun 09 19:05 8331 Jun 09 21:51 8331 Jun 12 18:51 8331 Jun 16 07:37 8331 Jun 20 12:20 8331 Jun 20 12:20 8331 Jun 23 01:13 8331 Jul 07 05:03 8331 Jul 13 20:09 8331 Aug 02 05:22 8331 Aug 09 20:38 8331 Aug 12 18:06 8331 Aug 15 10:53	7°828'24 28°836'58 0°	2°10'21 18°05'46 2°42'28 2°41'42 0.61952 AU 27°55'38
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el morning set asc. node max. Earth dist.	8330 May 14 20:37 8330 May 16 10:43 8330 May 25 11:31 8330 May 29 21:42 8330 Jun 02 01:31 8330 Jun 10 17:05 8330 Jun 17 15:55 8330 Jun 20 01:33 8330 Jun 27 04:54 8330 Jun 27 04:54 8330 Jun 30 10:37 8330 Jul 03 15:18 8330 Jul 04 05:18 8330 Jul 04 05:18 8330 Jul 10 15:30 8330 Jul 24 23:59 8330 Aug 09 00:51 8330 Aug 25 12:10 8330 Aug 25 12:19 8330 Sep 01 03:30	27°812'18 0°11 16°1122'42 24°1127'13 0°95 12°907'44 15°938'17 15°93'46 10°926'45 10°926'45 10°928'10 5°903'43 4°942'03 2°945'53 10°938'30 0°10 0°10,35'43 0°10,46'02 0°10,19'09	1°54'58 18°11'09 1°49'32 1°48'27 0.59705 AU 27°38'24	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj	8331 Apr 25 16:57 8331 May 08 01:28 8331 May 08 02:27 8331 May 16 18:46 8331 May 25 05:54 8331 May 31 17:00 8331 Jun 03 10:08 8331 Jun 09 19:05 8331 Jun 09 21:51 8331 Jun 12 18:51 8331 Jun 16 07:37 8331 Jun 20 12:20 8331 Jun 23 01:13 8331 Jun 20 12:20 8331 Jun 23 01:13 8331 Jul 13 20:09 8331 Aug 02 05:22 8331 Aug 09 20:38 8331 Aug 12 18:06 8331 Aug 15 10:53	7°828'24 28°836'58 0°	2°10'21 18°05'46 2°42'28 2°41'42 0.61952 AU 27°55'38 1.32064 AU 0°45'16
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el morning set asc. node max. Earth dist. superior conj	8330 May 14 20:37 8330 May 16 10:43 8330 May 25 11:31 8330 May 29 21:42 8330 Jun 02 01:31 8330 Jun 10 17:05 8330 Jun 17 15:55 8330 Jun 20 01:33 8330 Jun 27 04:54 8330 Jun 30 10:37 8330 Jun 30 10:37 8330 Jul 04 05:18 8330 Jul 04 05:18 8330 Jul 10 15:30 8330 Jul 24 23:59 8330 Aug 09 00:51 8330 Aug 25 19:10 8330 Aug 25 12:19 8330 Sep 01 03:30	27°812'18 0°II 16°II22'42 24°II27'13 0°S 12°S07'44 15°S38'17 15°S13'46 10°S26'45 10°S26'45 10°S28'10 5°S03'43 4°S42'03 2°S45'53 10°S38'30 0°\O 0°\O 0°\O 14°\O 14°\O 19'09 16°\O 04'05	1°54'58 18°11'09 1°49'32 1°48'27 0.59705 AU 27°38'24 1.31671 AU 1°06'30	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist.	8331 Apr 25 16:57 8331 May 08 01:28 8331 May 08 02:27 8331 May 16 18:46 8331 May 25 05:54 8331 May 31 17:00 8331 Jun 03 10:08 8331 Jun 09 19:05 8331 Jun 09 21:51 8331 Jun 12 18:51 8331 Jun 16 07:37 8331 Jun 20 12:20 8331 Jun 23 01:13 8331 Jun 20 12:20 8331 Jun 20 05:03 8331 Jul 13 20:09 8331 Aug 02 05:22 8331 Aug 09 20:38 8331 Aug 12 18:06 8331 Aug 17 08:14 8331 Aug 17 06:22	7°828'24 28°836'58 0° II 13° II 37'27 25° II 17'08 28° II 37'56 28° II 01'44 22° II 54'51 22° II 47'47 19° II 52'20 16° II 50'56 14° II 47'26 14° II 27'27 22° II 28'35 0° II 0° II 40'41 20° II 40'40'40 0° II 41'53 0° III 31'39	2°10'21 18°05'46 2°42'28 2°41'42 0.61952 AU 27°55'38
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el morning set asc. node max. Earth dist.	8330 May 14 20:37 8330 May 16 10:43 8330 May 25 11:31 8330 May 29 21:42 8330 Jun 02 01:31 8330 Jun 10 17:05 8330 Jun 17 15:55 8330 Jun 20 01:33 8330 Jun 27 01:58 8330 Jun 27 04:54 8330 Jun 30 10:37 8330 Jul 03 15:18 8330 Jul 04 05:18 8330 Jul 04 05:18 8330 Jul 10 15:30 8330 Jul 24 23:59 8330 Aug 09 00:51 8330 Aug 25 12:19 8330 Aug 25 12:19 8330 Sep 01 03:30 8330 Sep 01 22:27 8330 Sep 01 20:13	27°812'18 0°II 16°II22'42 24°II27'13 0°S 12°S07'44 15°S38'17 15°S13'46 10°S26'45 10°S26'45 10°S26'10 7°S28'10 5°S03'43 4°S42'03 2°S45'53 10°S38'30 0°R 0°M35'43 0°M46'02 0°M19'09 16°M04'05 15°M04'05 15°M051'41	1°54'58 18°11'09 1°49'32 1°48'27 0.59705 AU 27°38'24	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong	8331 Apr 25 16:57 8331 May 08 01:28 8331 May 08 02:27 8331 May 16 18:46 8331 May 25 05:54 8331 May 31 17:00 8331 Jun 03 10:08 8331 Jun 09 19:05 8331 Jun 09 21:51 8331 Jun 12 18:51 8331 Jun 16 07:37 8331 Jun 20 12:20 8331 Jun 23 01:13 8331 Jun 20 12:20 8331 Jun 20 05:03 8331 Jul 07 05:03 8331 Jul 13 20:09 8331 Aug 02 05:22 8331 Aug 09 20:38 8331 Aug 12 18:06 8331 Aug 15 10:53 8331 Aug 17 08:14 8331 Aug 17 06:22 8331 Aug 17 00:35	7°828'24 28°836'58 0° II 13° II 37'27 25° II 17'08 28° II 37'56 28° II 01'44 22° II 54'51 22° II 47'47 19° II 52'20 16° II 50'56 14° II 47'26 14° II 27'27 22° II 28'35 0° II 14° II 47'35 26° II 47'40 0° III 41'53 0° III 31'39 0° III	2°10'21 18°05'46 2°42'28 2°41'42 0.61952 AU 27°55'38 1.32064 AU 0°45'16
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong	8330 May 14 20:37 8330 May 16 10:43 8330 May 25 11:31 8330 May 29 21:42 8330 Jun 02 01:31 8330 Jun 10 17:05 8330 Jun 17 15:55 8330 Jun 20 01:33 8330 Jun 27 01:58 8330 Jun 27 04:54 8330 Jun 30 10:37 8330 Jul 04 05:18 8330 Jul 04 05:18 8330 Jul 10 15:30 8330 Jul 10 15:30 8330 Jul 24 23:59 8330 Aug 09 00:51 8330 Aug 25 12:19 8330 Aug 25 12:19 8330 Sep 01 03:30 8330 Sep 01 22:27 8330 Sep 01 20:13 8330 Sep 08 06:38	27°812'18 0°II 16°II22'42 24°II27'13 0°S 12°S07'44 15°S38'17 15°S13'46 10°S26'45 10°S26'45 10°S26'10 7°S28'10 5°S03'43 4°S42'03 2°S45'53 10°S38'30 0°I 0°IN 35'43 0°IN 46'02 0°IN 14°IN 19'09 16°IN 04'05 15°IN 51'41 0°S	1°54'58 18°11'09 1°49'32 1°48'27 0.59705 AU 27°38'24 1.31671 AU 1°06'30	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj	8331 Apr 25 16:57 8331 May 08 01:28 8331 May 08 02:27 8331 May 16 18:46 8331 May 25 05:54 8331 May 31 17:00 8331 Jun 03 10:08 8331 Jun 09 19:05 8331 Jun 09 21:51 8331 Jun 12 18:51 8331 Jun 16 07:37 8331 Jun 20 12:20 8331 Jun 20 12:20 8331 Jun 20 12:20 8331 Jun 20 05:03 8331 Jul 07 05:03 8331 Jul 13 20:09 8331 Aug 02 05:22 8331 Aug 09 20:38 8331 Aug 12 18:06 8331 Aug 17 08:14 8331 Aug 17 06:22 8331 Aug 17 00:35 8331 Aug 17 00:35 8331 Aug 24 03:42	7°828'24 28°836'58 0° II 13° II 37'27 25° II 17'08 28° II 37'56 28° II 01'44 22° II 54'51 22° II 47'47 19° II 52'20 16° II 50'56 14° II 47'26 14° II 27'27 22° II 28'35 0° II 14° II 47'35 26° II 47'35	2°10'21 18°05'46 2°42'28 2°41'42 0.61952 AU 27°55'38 1.32064 AU 0°45'16
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el morning set asc. node max. Earth dist. superior conj	8330 May 14 20:37 8330 May 16 10:43 8330 May 25 11:31 8330 May 29 21:42 8330 Jun 02 01:31 8330 Jun 10 17:05 8330 Jun 17 15:55 8330 Jun 20 01:33 8330 Jun 27 01:58 8330 Jun 27 04:54 8330 Jun 30 10:37 8330 Jul 03 15:18 8330 Jul 04 05:18 8330 Jul 04 05:18 8330 Jul 10 15:30 8330 Jul 24 23:59 8330 Aug 09 00:51 8330 Aug 25 19:10 8330 Aug 25 19:10 8330 Aug 25 12:19 8330 Sep 01 03:30 8330 Sep 01 22:27 8330 Sep 01 20:13 8330 Sep 08 06:38 8330 Sep 08 16:23	27°812'18 0°II 16°II22'42 24°II27'13 0°S 12°S07'44 15°S38'17 15°S13'46 10°S26'45 10°S26'10 7°S28'10 5°S03'43 4°S42'03 2°S45'53 10°S38'30 0°N 0°M35'43 0°M46'02 0°M51'41 0°S 0°S52'19	1°54'58 18°11'09 1°49'32 1°48'27 0.59705 AU 27°38'24 1.31671 AU 1°06'30	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong	8331 Apr 25 16:57 8331 May 08 01:28 8331 May 08 02:27 8331 May 16 18:46 8331 May 25 05:54 8331 May 31 17:00 8331 Jun 03 10:08 8331 Jun 09 19:05 8331 Jun 09 21:51 8331 Jun 12 18:51 8331 Jun 16 07:37 8331 Jun 20 12:20 8331 Jun 23 01:13 8331 Jun 23 01:13 8331 Jul 07 05:03 8331 Jul 13 20:09 8331 Aug 02 05:22 8331 Aug 09 20:38 8331 Aug 12 18:06 8331 Aug 17 08:14 8331 Aug 17 06:22 8331 Aug 17 00:35 8331 Aug 17 00:35 8331 Aug 24 03:42 8331 Aug 31 06:16	7°828'24 28°836'58 0° II 13° II 37'27 25° II 17'08 28° II 37'56 28° II 01'44 22° II 54'51 22° II 47'47 19° II 52'20 16° II 50'56 14° II 47'26 14° II 27'27 22° II 28'35 0° II 0° II 0° II 40' II 41'53 0° II 40' II 40' 0° II 41'53 0° II 40' II 40' 0° II 41'53 0° II 40' II 40' 0° II 40' II 40' 0° II 40' II 40' 0° II 40' 15° II 40'	2°10'21 18°05'46 2°42'28 2°41'42 0.61952 AU 27°55'38 1.32064 AU 0°45'16
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise	8330 May 14 20:37 8330 May 16 10:43 8330 May 25 11:31 8330 May 29 21:42 8330 Jun 02 01:31 8330 Jun 10 17:05 8330 Jun 17 15:55 8330 Jun 20 01:33 8330 Jun 27 01:58 8330 Jun 27 04:54 8330 Jun 30 10:37 8330 Jul 03 15:18 8330 Jul 04 05:18 8330 Jul 10 15:30 8330 Jul 10 15:30 8330 Jul 24 23:59 8330 Aug 25 19:10 8330 Aug 25 19:10 8330 Aug 25 12:19 8330 Sep 01 03:30 8330 Sep 01 03:30 8330 Sep 01 22:27 8330 Sep 01 20:13 8330 Sep 08 06:38 8330 Sep 08 16:23 8330 Sep 08 16:23 8330 Sep 24 09:16	27°812'18 0°II 16°II22'42 24°II27'13 0°I 12°II3'46 15°II3'46 10°II3'46 10°II3'46 10°II3'46 10°II3'43 4°II3'43 0°II3'43 0°II4'II3'43 0°II4'II3'43 10°II4'II3'43 0°II4'11 0°II4'II3'14'II3'43 0°II4'15'II3'14'II3'43 0°II4'II3'43	1°54'58 18°11'09 1°49'32 1°48'27 0.59705 AU 27°38'24 1.31671 AU 1°06'30	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node	8331 Apr 25 16:57 8331 May 08 01:28 8331 May 08 02:27 8331 May 16 18:46 8331 May 25 05:54 8331 May 31 17:00 8331 Jun 03 10:08 8331 Jun 09 19:05 8331 Jun 09 21:51 8331 Jun 12 18:51 8331 Jun 16 07:37 8331 Jun 20 12:20 8331 Jun 20 12:20 8331 Jun 20 12:20 8331 Jun 20 05:03 8331 Jul 07 05:03 8331 Jul 13 20:09 8331 Aug 02 05:22 8331 Aug 09 20:38 8331 Aug 12 18:06 8331 Aug 17 06:53 8331 Aug 17 06:22 8331 Aug 17 00:35 8331 Aug 17 00:35 8331 Aug 31 06:16 8331 Sep 16 11:13	7°828'24 28°836'58 0° II 13° II 37'27 25° II 17'08 28° II 37'56 28° II 01'44 22° II 54'51 22° II 47'47 19° II 52'20 16° II 50'56 14° II 47'26 14° II 27'27 22° II 28'35 0° II 0° II 50'	2°10'21 18°05'46 2°42'28 2°41'42 0.61952 AU 27°55'38 1.32064 AU 0°45'16 0°44'48
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node	8330 May 14 20:37 8330 May 16 10:43 8330 May 25 11:31 8330 May 29 21:42 8330 Jun 02 01:31 8330 Jun 10 17:05 8330 Jun 17 15:55 8330 Jun 20 01:33 8330 Jun 27 01:58 8330 Jun 27 04:54 8330 Jun 30 10:37 8330 Jul 03 15:18 8330 Jul 04 05:18 8330 Jul 04 05:18 8330 Jul 10 15:30 8330 Jul 24 23:59 8330 Aug 09 00:51 8330 Aug 25 19:10 8330 Aug 25 19:10 8330 Aug 25 12:19 8330 Sep 01 03:30 8330 Sep 01 22:27 8330 Sep 01 20:13 8330 Sep 08 06:38 8330 Sep 08 16:23 8330 Sep 29 14:05	27°812'18 0°II 16°II22'42 24°II27'13 0°I 12°I38'17 15°I3'46 10°I32'45 10°I3'46 10°I32'10 7°I328'10 5°I3'43 4°I42'03 2°I45'53 10°I38'30 0°I 0°I35'43 0°I46'02 0°I10 14°I19'09 16°I100'I11 0°I 0°I11'11 0°I11'11'11 0°I11'11'11 0°I11'11'11'11'11'11'11'11'11'11'11'11'11'	1°54'58 18°11'09 1°49'32 1°48'27 0.59705 AU 27°38'24 1.31671 AU 1°06'30 1°06'05	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong	8331 Apr 25 16:57 8331 May 08 01:28 8331 May 08 20:27 8331 May 16 18:46 8331 May 25 05:54 8331 May 31 17:00 8331 Jun 03 10:08 8331 Jun 09 19:05 8331 Jun 09 21:51 8331 Jun 12 18:51 8331 Jun 16 07:37 8331 Jun 20 12:20 8331 Jun 20 12:20 8331 Jun 20 05:03 8331 Jul 13 20:09 8331 Jul 13 20:09 8331 Aug 02 05:22 8331 Aug 09 20:38 8331 Aug 12 18:06 8331 Aug 15 10:53 8331 Aug 17 06:22 8331 Aug 17 00:35 8331 Aug 17 00:35 8331 Aug 31 06:16 8331 Sep 18 08:31	7°828'24 28°836'58 0° II 13° II 37'27 25° II 17'08 28° II 37'56 28° II 01'44 22° II 54'51 22° II 47'47 19° II 52'20 16° II 50'56 14° II 47'26 14° II 27'27 22° II 28'35 0° II 20° II 47'40 0° II 47'35 26° II 47'40 0° II 47'53 0° II 58' II 58'51 0° II 58' II 58'51 0° II 58'51	2°10'21 18°05'46 2°42'28 2°41'42 0.61952 AU 27°55'38 1.32064 AU 0°45'16
evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node evening rise	8330 May 14 20:37 8330 May 16 10:43 8330 May 25 11:31 8330 May 29 21:42 8330 Jun 02 01:31 8330 Jun 10 17:05 8330 Jun 17 15:55 8330 Jun 20 01:33 8330 Jun 27 01:58 8330 Jun 27 04:54 8330 Jun 30 10:37 8330 Jul 03 15:18 8330 Jul 04 05:18 8330 Jul 10 15:30 8330 Jul 10 15:30 8330 Jul 24 23:59 8330 Aug 25 19:10 8330 Aug 25 19:10 8330 Aug 25 12:19 8330 Aug 25 12:19 8330 Sep 01 03:30 8330 Sep 01 03:30 8330 Sep 01 22:27 8330 Sep 01 20:13 8330 Sep 08 06:38 8330 Sep 08 16:23 8330 Sep 29 14:05 8330 Oct 06 18:40	27°8/12'18 0°II 16°II22'42 24°II27'13 0°9 12°907'44 15°938'17 15°913'46 10°926'45 10°926'45 10°928'10 5°93'43 4°942'03 2°945'53 10°938'30 0°N 0°M35'43 0°M46'02 0°M14°M19'09 16°M04'05 15°M51'41 0°9 0°II 22'57 15°II30'53	1°54'58 18°11'09 1°49'32 1°48'27 0.59705 AU 27°38'24 1.31671 AU 1°06'30	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node	8331 Apr 25 16:57 8331 May 08 01:28 8331 May 08 20:27 8331 May 16 18:46 8331 May 25 05:54 8331 May 31 17:00 8331 Jun 03 10:08 8331 Jun 09 19:05 8331 Jun 09 21:51 8331 Jun 12 18:51 8331 Jun 16 07:37 8331 Jun 20 12:20 8331 Jun 20 12:20 8331 Jun 20 05:03 8331 Jul 13 20:09 8331 Jul 13 20:09 8331 Aug 02 05:22 8331 Aug 09 20:38 8331 Aug 12 18:06 8331 Aug 15 10:53 8331 Aug 17 06:22 8331 Aug 17 06:22 8331 Aug 17 06:22 8331 Aug 17 06:22 8331 Aug 17 00:35 8331 Aug 17 00:35 8331 Aug 17 00:35 8331 Aug 17 00:35 8331 Aug 18 06:16 8331 Sep 18 08:31 8331 Sep 23 02:30	7°828'24 28°836'58 0° II 13° II 37'27 25° II 17'08 28° II 37'56 28° II 01'44 22° II 54'51 22° II 47'47 19° II 52'20 16° II 50'56 14° II 47'26 14° II 27'27 22° II 28'35 0° II 20° II 47'40 0° II 48' II 48'14 20° II 48' I	2°10'21 18°05'46 2°42'28 2°41'42 0.61952 AU 27°55'38 1.32064 AU 0°45'16 0°44'48
evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node evening rise	8330 May 14 20:37 8330 May 16 10:43 8330 May 25 11:31 8330 May 29 21:42 8330 Jun 02 01:31 8330 Jun 10 17:05 8330 Jun 17 15:55 8330 Jun 20 01:33 8330 Jun 27 01:58 8330 Jun 27 04:54 8330 Jun 30 10:37 8330 Jul 03 15:18 8330 Jul 04 05:18 8330 Jul 10 15:30 8330 Jul 10 15:30 8330 Jul 24 23:59 8330 Aug 25 19:10 8330 Aug 25 19:10 8330 Aug 25 12:19 8330 Sep 01 03:30 8330 Sep 01 03:30 8330 Sep 01 22:27 8330 Sep 01 20:13 8330 Sep 08 06:38 8330 Sep 08 16:23 8330 Sep 29 14:05 8330 Oct 06 18:40 8330 Oct 06 18:40 8330 Oct 20 17:00	27°812'18 0°II 16°II22'42 24°II27'13 0°I 12°I07'44 15°I03'46 10°I02'45 10°I03'46 10°I02'10 7°I03'43 4°I04'03 2°I04'5'33'30 0°I0 0°I03'35'43 0°I04'05 15°I05'141 0°I09 0°I09 16°I004'05 15°I05'141 0°I09 16°I004'05 15°I05'141 0°I09 16°I004'05 15°I005'141	1°54'58 18°11'09 1°49'32 1°48'27 0.59705 AU 27°38'24 1.31671 AU 1°06'30 1°06'05	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node evening max el	8331 Apr 25 16:57 8331 May 08 01:28 8331 May 08 20:27 8331 May 16 18:46 8331 May 25 05:54 8331 May 31 17:00 8331 Jun 03 10:08 8331 Jun 09 19:05 8331 Jun 09 21:51 8331 Jun 12 18:51 8331 Jun 16 07:37 8331 Jun 20 12:20 8331 Jun 23 01:13 8331 Jul 13 20:09 8331 Jul 07 05:03 8331 Jul 13 20:09 8331 Aug 02 05:22 8331 Aug 09 20:38 8331 Aug 12 18:06 8331 Aug 15 10:53 8331 Aug 17 06:22 8331 Aug 17 06:22 8331 Aug 17 00:35 8331 Aug 17 00:35 8331 Aug 17 00:35 8331 Aug 31 06:16 8331 Sep 18 08:31 8331 Sep 23 02:30 8331 Oct 02 03:05	7°828'24 28°836'58 0° II 13° II 37'27 25° II 17'08 28° II 37'56 28° II 01'44 22° II 54'51 22° II 47'47 19° II 52'20 16° II 50'56 14° II 47'26 14° II 27'27 22° II 28'35 0° © 0° N 14° N 46'14 20° N 47'35 26° N 34'40 0° II 41'53 0° II 39 0° II 5° II 34'51 0° II 26° II 3'11 26° II 3'II	2°10'21 18°05'46 2°42'28 2°41'42 0.61952 AU 27°55'38 1.32064 AU 0°45'16 0°44'48
evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node evening rise	8330 May 14 20:37 8330 May 16 10:43 8330 May 25 11:31 8330 May 29 21:42 8330 Jun 02 01:31 8330 Jun 10 17:05 8330 Jun 17 15:55 8330 Jun 20 01:33 8330 Jun 27 01:58 8330 Jun 27 04:54 8330 Jun 30 10:37 8330 Jul 03 15:18 8330 Jul 04 05:18 8330 Jul 10 15:30 8330 Jul 24 23:59 8330 Aug 25 19:10 8330 Aug 25 19:10 8330 Aug 25 12:19 8330 Aug 25 12:19 8330 Sep 01 03:30 8330 Sep 01 03:30 8330 Sep 01 22:27 8330 Sep 01 20:13 8330 Sep 08 06:38 8330 Sep 24 09:16 8330 Sep 29 14:05 8330 Oct 06 18:40 8330 Oct 27 00:19	27°812'18 0°11 16°122'42 24°1127'13 0°9 12°907'44 15°938'17 15°913'46 10°926'45 10°920'10 7°928'10 5°903'43 4°942'03 2°945'53 10°938'30 0°0 0°1035'43 0°104'05 15°104'05 15°105'141 0°109 14°1019'09 16°1019'09 16°1019'09 16°1019'09 16°1019'09 16°1019'09 16°1019'09 16°1019'09 16°1019'09 16°1019'09 16°1019'09 16°1019'09 16°1019'09 16°1019'09	1°54'58 18°11'09 1°49'32 1°48'27 0.59705 AU 27°38'24 1.31671 AU 1°06'30 1°06'05	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node	8331 Apr 25 16:57 8331 May 08 01:28 8331 May 08 20:27 8331 May 16 18:46 8331 May 25 05:54 8331 May 31 17:00 8331 Jun 03 10:08 8331 Jun 09 19:05 8331 Jun 09 21:51 8331 Jun 12 18:51 8331 Jun 16 07:37 8331 Jun 20 12:20 8331 Jun 20 12:20 8331 Jun 20 05:22 8331 Jul 13 20:09 8331 Jul 13 20:09 8331 Aug 02 05:22 8331 Aug 09 20:38 8331 Aug 12 18:06 8331 Aug 15 10:53 8331 Aug 17 06:22 8331 Aug 17 00:35 8331 Aug 17 00:35 8331 Aug 24 03:42 8331 Aug 31 06:16 8331 Sep 16 11:13 8331 Sep 18 08:31 8331 Sep 23 02:30 8331 Oct 02 03:05 8331 Oct 07 06:35	7°828'24 28°836'58 0° Π 13° Π37'27 25° Π17'08 28° Π37'56 28° Π01'44 22° Π54'51 22° Π47'47 19° Π52'20 16° Π50'56 14° Π47'26 14° Π27'27 22° Π28'35 0° Θ 0° Ω 14° Ω46'14 20° Ω47'35 26° Ω34'40 0° № 41'53 0° № 31'39 0° № 15° № 34'51 0° Ω 24° Ω 13'11 26° Ω 08'12 0° M 3° M03'07 2° M04'25	2°10'21 18°05'46 2°42'28 2°41'42 0.61952 AU 27°55'38 1.32064 AU 0°45'16 0°44'48
evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node evening rise	8330 May 14 20:37 8330 May 16 10:43 8330 May 25 11:31 8330 May 29 21:42 8330 Jun 02 01:31 8330 Jun 10 17:05 8330 Jun 17 15:55 8330 Jun 20 01:33 8330 Jun 27 01:58 8330 Jun 27 04:54 8330 Jun 30 10:37 8330 Jul 03 15:18 8330 Jul 04 05:18 8330 Jul 10 15:30 8330 Jul 10 15:30 8330 Jul 24 23:59 8330 Aug 25 19:10 8330 Aug 25 19:10 8330 Aug 25 12:19 8330 Sep 01 03:30 8330 Sep 01 03:30 8330 Sep 01 22:27 8330 Sep 01 20:13 8330 Sep 08 06:38 8330 Sep 08 16:23 8330 Sep 29 14:05 8330 Oct 06 18:40 8330 Oct 06 18:40 8330 Oct 20 17:00	27°812'18 0°11 16°122'42 24°1127'13 0°9 12°907'44 15°938'17 15°913'46 10°926'45 10°920'10 7°928'10 5°903'43 4°942'03 2°945'53 10°938'30 0°0 0°1035'43 0°104'05 15°104'05 15°105'141 0°109 14°1019'09 16°1019'09 16°1019'09 16°1019'09 16°1019'09 16°1019'09 16°1019'09 16°1019'09 16°1019'09 16°1019'09 16°1019'09 16°1019'09 16°1019'09 16°1019'09	1°54'58 18°11'09 1°49'32 1°48'27 0.59705 AU 27°38'24 1.31671 AU 1°06'30 1°06'05 25°55'20 0.58357 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node evening max el	8331 Apr 25 16:57 8331 May 08 01:28 8331 May 08 20:27 8331 May 16 18:46 8331 May 25 05:54 8331 May 31 17:00 8331 Jun 03 10:08 8331 Jun 09 19:05 8331 Jun 09 21:51 8331 Jun 12 18:51 8331 Jun 16 07:37 8331 Jun 20 12:20 8331 Jun 23 01:13 8331 Jul 13 20:09 8331 Jul 07 05:03 8331 Jul 13 20:09 8331 Aug 02 05:22 8331 Aug 09 20:38 8331 Aug 12 18:06 8331 Aug 15 10:53 8331 Aug 17 06:22 8331 Aug 17 06:22 8331 Aug 17 00:35 8331 Aug 17 00:35 8331 Aug 17 00:35 8331 Aug 31 06:16 8331 Sep 18 08:31 8331 Sep 23 02:30 8331 Oct 02 03:05	7°828'24 28°836'58 0° II 13° II 37'27 25° II 17'08 28° II 37'56 28° II 01'44 22° II 54'51 22° II 47'47 19° II 52'20 16° II 50'56 14° II 47'26 14° II 27'27 22° II 28'35 0° © 0° N 14° N 46'14 20° N 47'35 26° N 34'40 0° II 41'53 0° II 39 0° II 5° II 34'51 0° II 26° II 3'11 26° II 3'II	2°10'21 18°05'46 2°42'28 2°41'42 0.61952 AU 27°55'38 1.32064 AU 0°45'16 0°44'48

inforior coni	8331 Oct 15 08:38	27° ≏ 38'18	5022126	min Earth dist	9222 San 22 04:00	00 0 06120	0.55182 AU
inferior conj				min. Earth dist.	8332 Sep 23 04:00		
minimum elong	8331 Oct 15 10:33	27° Ω 35'16	5-33-17	inferior conj	8332 Sep 24 12:10	8° Ω 20'39	
morning rise	8331 Oct 23 16:39	23° △ 36'00		minimum elong	8332 Sep 24 06:34	8° Ω 28'41	5°20'14
direct	8331 Oct 26 07:34	23° △ 17'29		morning rise	8332 Oct 02 22:53	4° Ω 31'59	
morning max el	8331 Nov 05 00:02	27° Ω 52'11	19°35'39	direct	8332 Oct 06 01:38	4° Ω 09'33	
	8331 Nov 07 01:00	0° M		morning max el	8332 Oct 17 07:38	9° ≏ 25'30	20°55'04
asc. node	8331 Nov 08 17:45	2°M03'47		asc. node	8332 Oct 25 14:44	19° ≏ 50'33	
morning set	8331 Nov 22 10:43	25°M55'53			8332 Oct 31 10:45	0° M	
	8331 Nov 24 11:05	0° ∡		morning set	8332 Nov 05 18:38	10°M38'50	
		=					
superior conj	8331 Nov 30 09:03	11° ∡ ′51′34	1°26'20	superior conj	8332 Nov 13 03:54	26°M01'03	1°37'30
minimum elong	8331 Nov 30 11:43	12° ∡ *04'41	1°26'14	minimum elong	8332 Nov 13 05:19	26° ™ 08'17	1°37'34
max. Earth dist.	8331 Dec 06 14:42	23° ∡ ¹46'30	1.37709 AU		8332 Nov 15 02:48	0° ∡ ¹	
evening rise	8331 Dec 10 08:06	0° る 31'02		max. Earth dist.	8332 Nov 17 23:32	5° ∡ ′42'10	1.35704 AU
	8331 Dec 10 01:06	0°ප		evening rise	8332 Nov 21 23:40	13° ∡ ′21′56	
desc. node	8331 Dec 13 10:05	5° る 52'53		desc. node	8332 Nov 29 07:08	26° ≯ 22'18	
	8331 Dec 28 19:19	0° ≈			8332 Dec 01 11:17	8°0	
evening max el	8332 Jan 14 22:07	21° ≈ 15'46	25°15'26		8332 Dec 22 17:39	0° ≈	
retrograde	8332 Jan 26 23:02	28° ≈ 13'12		evening max el	8332 Dec 27 11:12	5° ≈ 01'16	26°20'30
evening set	8332 Feb 01 18:01	25° ≈ 49'16		retrograde	8333 Jan 09 06:54	12° ≈ 15'41	
asc. node	8332 Feb 04 16:59	22° ≈ 45'40		evening set	8333 Jan 15 14:12	9° ≈ 42'45	
min. Earth dist.	8332 Feb 06 04:28	20°≈54'58	0.67593 AU	min. Earth dist.	8333 Jan 19 18:06	5° ≈ 23'07	0.66601 AU
inferior conj	8332 Feb 07 09:16	19° ≈ 21'27	0°52'30	inferior conj	8333 Jan 21 10:30	3° ≈ 20'08	
minimum elong	8332 Feb 07 08:02	19° ≈ 25'30	0°52'08	minimum elong	8333 Jan 21 10:34	3°≈19'55	0°02'47
morning rise	8332 Feb 12 22:22	13°≈26'25	0 52 00	transit middle	8333 Jan 21 10:34	3°≈19'55	0°02'47
direct	8332 Feb 16 10:26	12°≈15'51		transit begin	8333 Jan 21 07:44	3°≈28'35	0 02 47
morning max el	8332 Feb 10 10:20 8332 Feb 23 12:52	12 ≈ 1331 16° ≈ 11'36	19°22'36	transit ocgin	8333 Jan 21 13:25	3°≈11'16	
morning max er	8332 Feb 25 12.32 8332 Mar 05 06:04	10 ≈11 30 0°) {	19 22 30		8333 Jan 21 14:03	3°≈09'20	
		3°) 15′56	-0.7m	asc. node			
greatest brilliancy	8332 Mar 07 11:11		-0./m		8333 Jan 24 08:21	30°₹₹	
desc. node	8332 Mar 10 09:41	7°) (40'43		morning rise	8333 Jan 27 07:44	27° る 34'59	
morning set	8332 Mar 18 23:28	20°) (48'30		direct	8333 Jan 30 08:57	26° ප් 42'27	
	8332 Mar 24 21:51	0°Υ			8333 Feb 05 16:40	0° ≈	
max. Earth dist.	8332 Mar 31 20:53	10° Y 54'09	1.44874 AU	morning max el	8333 Feb 05 23:38	0°≈16'53	18°34'23
		•		desc. node	8333 Feb 25 06:37	27°≈59'25	
superior conj	8332 Apr 04 13:26	16° Y 45′21		morning set	8333 Feb 26 17:28	0°) 17′03	
minimum elong	8332 Apr 04 09:14	16° Y 28′36	2°08'25		8333 Feb 26 13:09	0° ∀	
	8332 Apr 12 18:12	9° 8					
evening rise	8332 Apr 18 18:23	9° 8 55'24		superior conj	8333 Mar 14 20:05	25°) ₹35′06	-1°46'31
	8332 May 01 02:05	Π $\circ 0$		minimum elong	8333 Mar 14 10:43	24°) 58′28	1°45'42
asc. node	8332 May 02 15:51	2° ∏ 19′02		max. Earth dist.	8333 Mar 14 14:59	25° 升 15′10	1.45486 AU
evening max el	8332 May 07 19:06	8° Ⅱ 41'38	18°19'07		8333 Mar 17 15:43	0 ° Υ	
retrograde	8332 May 14 04:41	12° Ⅲ 07'13		evening rise	8333 Mar 30 11:42	20° Y 15′38	
evening set	8332 May 17 05:00	11° Ⅱ 17'49			8333 Apr 05 14:34	0°8	
inferior conj	8332 May 23 02:35	5° Ⅱ 52'48	3°12'02	greatest brilliancy	8333 Apr 08 01:46	3° 8 53'59	-0.8m
minimum elong	8332 May 23 04:12	5° Ⅱ 48'10	3°11'41	asc. node	8333 Apr 19 12:56	20° 8 22'32	
min. Earth dist.	8332 May 25 12:28	3° Ⅱ 07'36	0.64018 AU	evening max el	8333 Apr 21 05:58	22° 8 14'26	18°50'21
	8332 May 28 15:58	30° ₹ 8		retrograde	8333 Apr 27 22:53	25° 8 57'31	
morning rise	8332 May 29 02:18	29° 8 38'40		evening set	8333 May 01 06:35	24° 8 54'00	
direct	8332 Jun 04 19:41	26° 8 57'35		inferior conj	8333 May 06 20:32	19° 8 12'37	3°23'04
desc. node	8332 Jun 06 09:22	27° 8 05'33		minimum elong	8333 May 06 20:48	19° 8 11'46	3°22'56
	8332 Jun 12 19:57	0°Щ		min. Earth dist.	8333 May 08 15:09	16° 8 59'43	0.65754 AU
morning max el	8332 Jun 18 14:19	4° ∏ 58'18	27°35'48	morning rise	8333 May 12 10:25	12° 8 54'36	
morning man er	8332 Jul 07 12:33	0.2 . T	27 30 .0	direct	8333 May 18 21:36	10° 8 07'47	
morning set	8332 Jul 23 14:27	28° © 32'13		desc. node	8333 May 24 06:22	11° 8 41'11	
morning set	8332 Jul 24 08:07	0°Ω		morning max el	8333 Jun 01 00:52	17° 8 55'28	26°44'21
max. Earth dist.	8332 Jul 28 11:39	8° Ω 29'17	1.32928 AU	morning max cr	8333 Jun 11 03:49	0°Ⅱ	20 44 21
asc. node	8332 Jul 29 15:06	10° Ω 53'39	1.32926 AU		8333 Jun 30 11:23	0°©	
asc. Houe	8332 Jul 29 13.00	10 663339		mamina sat			
aunaries cos:	9222 Jul 21 14.15	150 004145	0°19'49	morning set	8333 Jul 06 21:22	11° © 43'42 19° © 54'56	1 2/1276 ATT
superior conj	8332 Jul 31 14:15	15° Ω 04'45		max. Earth dist.	8333 Jul 11 02:14	17 503436	1.34276 AU
minimum elong	8332 Jul 31 13:18	14° Ω 59'38	0°19'29		0222 1-1 15 14 17	2000005105	0000112
evening rise	8332 Aug 07 15:18	0° Mp 15'04		superior conj	8333 Jul 15 14:11	29°505'07	
	8332 Aug 07 12:28	0° m)		minimum elong	8333 Jul 15 14:41	29°507'47	0°09'15
	8332 Aug 24 07:48	0∘ ⊽	220.45:55	behind sun begin	8333 Jul 15 09:56	28°543'06	
evening max el	8332 Aug 29 20:02	6° £ 21'33	22°47'52	behind sun end	8333 Jul 15 19:26	29° © 32'30	
desc. node	8332 Sep 02 08:20	9° ≙ 21'43			8333 Jul 16 00:43	0 \circ Ω	
retrograde	8332 Sep 12 01:03	12° Ω 57'19		asc. node	8333 Jul 16 12:05	0° Ω 59'16	
evening set	8332 Sep 15 16:16	12° ≏ 28'21		evening rise	8333 Jul 23 01:07	14° Ω 45'50	

	8333 Jul 30 18:22	0° m			8334 Jul 07 18:34	0°N	
evening max el	8333 Aug 11 14:15	16° Mp 46'22	21°14'09	evening max el	8334 Jul 24 21:11	27° Ω 49'37	19°56'36
desc. node	8333 Aug 20 05:27	22° m 15'32			8334 Jul 27 09:04	0° m)	
retrograde	8333 Aug 23 14:17	22° m/43'17		retrograde	8334 Aug 04 04:46	2° m 54'56	
evening set	8333 Aug 25 23:27	22° m 30'06		evening set	8334 Aug 06 01:51	2° m 45'33	
inferior conj	8333 Sep 04 05:10	18° m/32'51	-4°13'14	desc. node	8334 Aug 07 02:31	2° m/32'52	
minimum elong	8333 Sep 03 19:36	18° m)46'18	4°10'40		8334 Aug 12 23:28	30°R€	
min. Earth dist.	8333 Sep 04 12:51	18° m 22'02	0.54679 AU	inferior conj	8334 Aug 15 01:42	28° Ω 45'30	-2°25'03
morning rise	8333 Sep 12 16:23	14° m 39'39		minimum elong	8334 Aug 14 19:05	28° Q 55'33	2°22'42
direct	8333 Sep 16 09:59	14° m 09'38		min. Earth dist.	8334 Aug 16 23:51	27° Ω 35'42	0.55140 AU
morning max el	8333 Sep 29 03:19	20° m 12'35	22°32'53	morning rise	8334 Aug 23 10:36	24° Ω 27'52	
	8333 Oct 07 07:15	0∘ ⊽		direct	8334 Aug 27 22:38	23° Ω 43'30	
asc. node	8333 Oct 12 11:43	8° ഫ 21'18			8334 Sep 10 03:18	0° m ⁄	
morning set	8333 Oct 21 05:20	25° ≏ 27'35		morning max el	8334 Sep 10 16:09	0° ™ 29'49	24°18'55
	8333 Oct 23 08:36	0° M ₊		asc. node	8334 Sep 29 08:41	27° m 25'14	
					8334 Sep 30 16:44	0∘ ত	
superior conj	8333 Oct 28 06:37	10°M31'57	1°41'20	morning set	8334 Oct 05 17:04	10° ≙ 17'10	
minimum elong	8333 Oct 28 06:43	10°M32'26	1°41'27				
max. Earth dist.	8333 Oct 31 15:31	17°M36'21	1.34033 AU	superior conj	8334 Oct 12 14:29	25° ≙ 15'55	1°38'44
evening rise	8333 Nov 05 06:00	26°M52'08		minimum elong	8334 Oct 12 13:27	25° ≙ 10'18	1°38'45
	8333 Nov 06 20:54	0°⊀		max. Earth dist.	8334 Oct 14 15:56	29° ≏ 43'48	1.32788 AU
desc. node	8333 Nov 16 04:13	16° ∡ ³36'37			8334 Oct 14 18:56	0°M₊	
	8333 Nov 24 19:02	0°₹		evening rise	8334 Oct 19 23:29	10°M52'09	
evening max el	8333 Dec 10 00:17	18° る 37'05	27°07'17		8334 Oct 30 03:56	0° ∡ ″	
retrograde	8333 Dec 23 09:05	25° る 57'49		desc. node	8334 Nov 03 01:16	6° ≯ 29'02	
evening set	8333 Dec 30 02:52	23° る 21'33			8334 Nov 20 14:56	0°ප	
min. Earth dist.	8334 Jan 03 01:05	19° る 35'51	0.65246 AU	evening max el	8334 Nov 22 12:09	1° る 51'56	27°28'38
inferior conj	8334 Jan 05 05:06	17° 云 10'05		retrograde	8334 Dec 06 04:37	9° ට 10'33	
minimum elong	8334 Jan 05 07:02	17° る 04'39	1°04'27	evening set	8334 Dec 13 05:25	6° る 38'49	
asc. node	8334 Jan 08 11:06	13° ठ 46'44		min. Earth dist.	8334 Dec 16 23:16	3° る 24'30	
morning rise	8334 Jan 11 12:32	11° る 37'11		inferior conj	8334 Dec 19 14:28	0° ろ 44'40	
direct	8334 Jan 14 04:45	10°る58'54		minimum elong	8334 Dec 19 18:39	0°る34'02	2°11'33
morning max el	8334 Jan 20 15:08	14° පි 23'14	18°02'52		8334 Dec 20 08:12	30°Ŗ ⋌ ¹	
	8334 Jan 31 20:02	0° ≈		morning rise	8334 Dec 26 09:45	25° 🖈 27'00	
morning set	8334 Feb 07 16:58	11°≈14'34		asc. node	8334 Dec 26 08:09	25° 🖈 28'34	
desc. node	8334 Feb 12 03:33	18°≈30'57		direct	8334 Dec 28 19:17	24° 🖈 59'02	17040124
	8334 Feb 19 06:30	0° ℋ		morning max el	8335 Jan 04 08:28	28° ₹ 22'37	17°48'34
	8334 Feb 22 04:17	40 W 27100	1900!14		8335 Jan 05 20:42	0°중 23°중29'54	
superior conj minimum elong	8334 Feb 22 04:17 8334 Feb 21 20:28	4° 升 37'08 4° 升 06'13	1°07'11	morning set	8335 Jan 20 19:14 8335 Jan 24 14:04	23° ⊙ 29°34 0° ≈	
max. Earth dist.	8334 Feb 21 20:28 8334 Feb 25 10:29	9° X 45'16	1.45354 AU	desc. node	8335 Jan 30 00:30	0 ∞ 9°≈10'32	
evening rise	8334 Mar 10 08:31	29°\(\frac{4}{5}\)10	1.43334 AO	desc. Hode	6555 Jan 50 00.50	<i>y</i> ≈1032	
evening rise	8334 Mar 10 10:57	29 γ (3033		superior conj	8335 Feb 02 06:59	14° ≈ 34'50	-0°23'41
greatest brilliancy	8334 Mar 23 19:00	20° Υ 21'35	-0.7m	minimum elong	8335 Feb 02 04:25	14°≈24'19	0°23'10
greatest offinancy	8334 Mar 30 14:02	0°8	0.7111	max. Earth dist.	8335 Feb 08 04:52	24°≈07'48	1.44504 AU
evening max el	8334 Apr 04 12:40	5° 8 52'08	19°38'12	max. Bartii dist.	8335 Feb 11 22:01	0° ∀	1.11301710
asc. node	8334 Apr 06 10:01	7° 8 37'06	17 30 12	evening rise	8335 Feb 17 19:45	9° ₩ 09'50	
retrograde	8334 Apr 11 20:26	10° 8 03'34			8335 Mar 03 16:45	0°Υ	
evening set	8334 Apr 15 12:17	8° 8 45'18		evening max el	8335 Mar 18 14:00	19° Υ 31'26	20°40'31
inferior conj	8334 Apr 20 21:43	2° 8 49'15	3°19'30	asc. node	8335 Mar 24 07:07	23° Y 48'01	
minimum elong	8334 Apr 20 20:49	2° 8 52'14		retrograde	8335 Mar 26 18:56	24° Y 19'39	
min. Earth dist.	8334 Apr 22 01:26	1° 8 17'20	0.67077 AU	evening set	8335 Mar 30 20:02	22° Y '46'08	
	8334 Apr 23 01:22	30° ₹ Υ		inferior conj	8335 Apr 05 03:31	16° Ƴ 37'19	3°04'05
morning rise	8334 Apr 26 05:02	26° Ƴ 31′20		minimum elong	8335 Apr 05 01:46	16° Ƴ 43'19	3°03'44
direct	8334 May 02 05:51	23° Y 50'11		min. Earth dist.	8335 Apr 05 17:21	15° Ƴ 49'43	0.67952 AU
desc. node	8334 May 11 03:19	28° Ƴ 04'03		morning rise	8335 Apr 10 07:17	10° Y 21'54	
	8334 May 13 06:44	9° 8		direct	8335 Apr 15 19:12	7° Y 55'20	
morning max el	8334 May 14 10:38	1° 8 08'53	25°30'06	morning max el	8335 Apr 26 19:34	14° Y 30'24	24°03'14
	8334 Jun 05 03:58	$\Pi^{\circ}0$		desc. node	8335 Apr 28 00:16	15° Ƴ 44'58	
morning set	8334 Jun 19 13:23	24° Ⅱ 10′16			8335 May 09 10:31	0°8	
	8334 Jun 22 17:13	0ංම			8335 May 29 01:37	$\Pi^{\circ}0$	
max. Earth dist.	8334 Jun 23 05:47	0°559'09	1.36089 AU	morning set	8335 Jun 01 09:17	5° Ⅱ 37'52	
				max. Earth dist.	8335 Jun 05 02:34	12° Ⅱ 09'11	1.38240 AU
superior conj	8334 Jun 29 05:22	12° © 36'41	-0°40'33				
minimum elong	8334 Jun 29 07:48	12° © 48'51	0°40'15	superior conj	8335 Jun 12 08:22	25° Ⅱ 30'36	
asc. node	8334 Jul 03 09:05	21° © 01'06		minimum elong	8335 Jun 12 12:51	25° Ⅱ 51'55	1°11'47
evening rise	8334 Jul 07 07:05	29° 5 01'40			8335 Jun 14 16:30	0 \circ \odot	

asc. node	8335 Jun 20 06:07	10° © 54'53			8336 Jun 05 19:25	0°9	
	8335 Jun 21 06:37	10 \$34 33 12°\$55'30		asc. node	8336 Jun 06 03:09	0°936'11	
evening rise	8335 Jun 30 11:59	12 3 55 30 0° Ω		evening max el	8336 Jun 19 22:06	22° © 04'28	18°22'54
ovanina may al	8335 Jul 07 16:50	9° Ω 37'28	18°59'21	retrograde	8336 Jun 27 08:48	25°948'00	10 22 34
evening max el	8335 Jul 16 09:06	13° Ω 55'09	10 3921	•	8336 Jun 29 14:02	25°\$29'02	
retrograde	8335 Jul 18 07:44	13° Ω 43'06		evening set inferior conj	8336 Jul	23 \$2902 20°\$53'26	1°06'41
evening set				3			
desc. node	8335 Jul 24 23:33	10° Ω 34'16 9° Ω 27'41	0020140	minimum elong	8336 Jul 07 03:07	20°548'57	1°05'46
inferior conj	8335 Jul 26 14:28			min. Earth dist.	8336 Jul 10 10:11	18°508'24	0.58430 AU
minimum elong	8335 Jul 26 13:13	9° £ 29'52	0°29'19	desc. node	8336 Jul 10 20:38	17°5548'22	
min. Earth dist.	8335 Jul 29 14:16	7° Ω 23'14	0.56478 AU	morning rise	8336 Jul 14 12:52	15°924'32	
morning rise	8335 Aug 03 15:31	4° Ω 34'01		direct	8336 Jul 20 15:04	13°546'57	27011120
direct	8335 Aug 08 23:46	3° Ω 26'37	25055110	morning max el	8336 Aug 04 00:29	21° © 30'13	27°11'29
morning max el	8335 Aug 23 05:27	10° Ω 46'16	25°5/18		8336 Aug 11 10:39	0° N	
	8335 Sep 06 22:41	0° m)			8336 Aug 29 19:21	0° m	
asc. node	8335 Sep 16 05:39	16° m 53'44		asc. node	8336 Sep 02 02:37	6° Mp 39'23	
morning set	8335 Sep 20 04:11	25° m 02'51		morning set	8336 Sep 03 13:01	9° ™ 39'07	
	8335 Sep 22 11:18	0∘ ⊽					
		_		superior conj	8336 Sep 10 13:06	24° m 55'42	1°16'38
superior conj	8335 Sep 27 01:18	10° ≙ 06'06	1°30'20	minimum elong	8336 Sep 10 10:52	24° m 43'21	1°16'17
minimum elong	8335 Sep 26 23:28	9° £ 55'58	1°30'11	max. Earth dist.	8336 Sep 10 08:58	24° m 32'47	1.31652 AU
max. Earth dist.	8335 Sep 27 22:53	12° ≏ 05'21	1.31991 AU		8336 Sep 12 19:58	0₀ ಹ	
evening rise	8335 Oct 04 01:00	25° ≏ 13'16		evening rise	8336 Sep 17 07:58	9° ≏ 47'21	
	8335 Oct 06 08:50	0° M .			8336 Sep 27 16:12	0°M₊	
desc. node	8335 Oct 20 22:20	25°M50'29		desc. node	8336 Oct 06 19:27	14°M27'46	
	8335 Oct 23 17:50	0°⋪		evening max el	8336 Oct 16 22:07	26°M25'27	26°34'59
evening max el	8335 Nov 04 20:26	14° ∡ ³32'34	27°18'48		8336 Oct 21 05:55	0° ∡ ¹	
retrograde	8335 Nov 18 16:37	21° ∡¹ 45′16		retrograde	8336 Oct 30 20:02	3° ∡ ³32'34	
evening set	8335 Nov 25 18:31	19° ∡ ¹27'34		evening set	8336 Nov 06 13:48	1° ∡ ³39'30	
min. Earth dist.	8335 Nov 29 10:57	16° ∡ ³38'46	0.61632 AU		8336 Nov 09 05:12	30°RM₊	
inferior conj	8335 Dec 02 11:31	13° ∡ 756′18	-3°23'30	min. Earth dist.	8336 Nov 10 11:45	29°M04'22	0.59544 AU
minimum elong	8335 Dec 02 17:53	13° ҂ ¹42'00	3°21'09	inferior conj	8336 Nov 13 16:39	26°M34'10	-4°29'20
morning rise	8335 Dec 09 19:27	8° ₰ 757'21		minimum elong	8336 Nov 13 23:58	26°M₁9′50	4°27'20
direct	8335 Dec 12 01:07	8° ≯ 36′03		morning rise	8336 Nov 21 12:30	21°M57'14	
asc. node	8335 Dec 13 05:10	8° ∡ ¹42'03		direct	8336 Nov 23 17:54	21°M39'25	
morning max el	8335 Dec 19 00:32	12° ∡ 07'32	17°52'23	asc. node	8336 Nov 29 02:12	23°M28'25	
	8335 Dec 31 00:13	0°ರ		morning max el	8336 Dec 01 11:49	25°M27'46	18°15'41
morning set	8336 Jan 03 17:50	6° පි 43'14			8336 Dec 05 08:03	0° ∡ ¹	
_				morning set	8336 Dec 17 06:45	20° ∡ ³35'51	
superior conj	8336 Jan 14 11:18	25° ප් 46'40	0°17'52		8336 Dec 22 06:06	0°రె	
minimum elong	8336 Jan 14 12:53	25° る 53'28	0°17'48				
desc. node	8336 Jan 16 21:28	29° る 54'53		superior conj	8336 Dec 26 15:21	8° ⋜ 06'06	0°51'36
	8336 Jan 16 22:41	0° ≈		minimum elong	8336 Dec 26 18:38	8° る 21'02	0°51'17
max. Earth dist.	8336 Jan 21 20:01	8° ≈ 07'51	1.43033 AU	desc. node	8337 Jan 02 18:28	20°る39'57	
evening rise	8336 Jan 28 12:52	18° ≈ 51'31		max. Earth dist.	8337 Jan 03 06:06	21° る 29'29	1.41099 AU
8 21	8336 Feb 04 18:55	0° ∀		evening rise	8337 Jan 07 23:32	29° る 21'52	
	8336 Feb 26 11:31	$_0$ ° $\boldsymbol{\gamma}$		Č	8337 Jan 08 08:54	0° ≈	
evening max el	8336 Feb 29 09:58	3° Ƴ 11'55	21°53'44		8337 Jan 28 07:43	0°) €	
retrograde	8336 Mar 09 16:31	8° Ƴ 41'27		evening max el	8337 Feb 11 01:42	16°) 54'35	23°13'06
asc. node	8336 Mar 10 04:12	8° Ƴ 40'15		retrograde	8337 Feb 21 11:46	23°) €04'43	
evening set	8336 Mar 14 04:06	6° Y 52'36		asc. node	8337 Feb 25 01:17	22°) (01'57	
inferior conj	8336 Mar 19 11:43	0° Υ 33'31	2°38'33	evening set	8337 Feb 26 10:55	21° ₩ 01'02	
minimum elong	8336 Mar 19 09:31	0° Ƴ 41'09	2°38'01	inferior conj	8337 Mar 03 20:23	14°) €34'58	2°04'00
min. Earth dist.	8336 Mar 19 12:47	0° Υ 29'48	0.68381 AU	minimum elong	8337 Mar 03 18:11	14°) 42′36	2°03'21
	8336 Mar 19 21:21	30° ₹		min. Earth dist.	8337 Mar 03 09:33	15°) 12′20	0.68384 AU
morning rise	8336 Mar 24 14:47	24° H 21'59		morning rise	8337 Mar 09 01:24	8° H 28'34	0.00501710
direct	8336 Mar 29 12:40	22°\(\)15'35		direct	8337 Mar 13 09:21	6°) 44'30	
morning max el	8336 Apr 08 06:09	27°) 59'34	22°33'39	morning max el	8337 Mar 21 21:49	11°) (39'14	21°09'47
	8336 Apr 10 03:50	0° Υ		desc. node	8337 Mar 31 18:10	23°) (40'34	21 02 17
desc. node	8336 Apr 13 21:13	4° Υ 22'19		desc. Houc	8337 Apr 05 06:18	23 χ4034 0° Υ	
acse. Houc	8336 May 02 02:20	0° 8		morning set	8337 Apr 21 19:04	24° Υ 55'14	
morning set	8336 May 12 03:43	15° 8 53'22		morning set	8337 Apr 25 00:01	0° 8	
max. Earth dist.	•	23° 8 58'02	1.40491 AU	max. Earth dist.	-	6° 8 39'26	1.42560 AU
max. Earni aist.	8336 May 16 23:59	0° Ⅱ	1.40471 AU	max. Earth Alst.	8337 Apr 29 02:53	0 039726	1.42300 AU
	8336 May 20 12:03	νц		cuparior con-	9337 May 06 00:10	18° 8 44'15	2003120
superior conj	8336 May 24 18:56	7° Ⅱ 36'40	10/11/27	superior conj minimum elong	8337 May 06 08:19 8337 May 06 13:09	18° 8 04'52	
	8336 May 24 18:36 8336 May 25 00:44	7° П 36'40 8° П 02'51		minimum elong		19° 0 0432 0° Ⅱ	2 03 11
minimum elong	8336 May 25 00:44 8336 Jun 03 20:27	8°Щ02'51 26°Щ19'02	1 40 38	avaning rise	8337 May 12 19:25	0°Щ 9°Щ02'15	
evening rise	0550 Juli 05 20.2/	20 H 1902		evening rise	8337 May 17 20:32	э ш02 13	

aga mada	9227 May 24 00:12	19° ∏ 59'56		avanina rica	9229 Apr. 20 02:04	20° 8 53'39	
asc. node	8337 May 24 00:12			evening rise	8338 Apr 30 02:04	20° G 53′39	
	8337 May 30 05:54 8337 Jun 03 09:13	0°99	10007120	1-	8338 May 05 09:53	0°Щ 8°Щ59'06	
evening max el		5°501'29	18°06'30	asc. node	8338 May 10 21:17	8°Д39'06 18°Д18'21	10000112
retrograde	8337 Jun 10 01:56	8°526'26		evening max el	8338 May 17 22:34		18°09'12
evening set	8337 Jun 12 14:39	7°957'21	201.5100	retrograde	8338 May 24 07:57	21° I I39'31	
inferior conj	8337 Jun 19 08:00	3°501'39		evening set	8338 May 27 04:05	20° I 57'59	2057122
minimum elong	8337 Jun 19 11:03	2°954'24	2°14'09	inferior conj	8338 Jun 02 07:46	15° Ⅱ 43'30	
min. Earth dist.	8337 Jun 22 13:45	29° ∏ 58′20	0.60661 AU	minimum elong	8338 Jun 02 10:06	15° Ⅱ 37'12	
	8337 Jun 22 13:01	30°RⅡ		min. Earth dist.	8338 Jun 05 02:08	12° ∏ 45'42	0.62866 AU
morning rise	8337 Jun 26 04:51	27° I 07'08		morning rise	8338 Jun 08 14:29	9° ∏ 34'10	
desc. node	8337 Jun 27 17:41	26° Ⅱ 14'14		desc. node	8338 Jun 14 14:43	7° Ⅱ 03'16	
direct	8337 Jul 02 19:00	24° ∏ 58′28		direct	8338 Jun 15 08:56	7° Ⅱ 01'26	
	8337 Jul 13 21:02	0		morning max el	8338 Jun 29 09:32	15° Ⅱ 04'23	27°51'21
morning max el	8337 Jul 17 02:25	2° © 56'31	27°50'32		8338 Jul 11 13:02	0ം ತಾ	
	8337 Aug 05 23:05	0 $^{\circ}\Omega$			8338 Jul 29 14:03	0 \circ Ω	
morning set	8337 Aug 18 17:47	24° Ω 01′03		morning set	8338 Aug 02 16:17	8° Ω 01'46	
asc. node	8337 Aug 19 23:36	26° Ω 36'48		asc. node	8338 Aug 06 20:35	16° Ω 40'42	
	8337 Aug 21 13:51	0° ™		max. Earth dist.	8338 Aug 07 23:06	19° Ω 01'46	1.32369 AU
max. Earth dist.	8337 Aug 24 18:20	6° № 55'29	1.31776 AU				
				superior conj	8338 Aug 10 08:32	24° Ω 11'35	0°34'57
superior conj	8337 Aug 26 00:08	9° ™ 39'36	0°58'03	minimum elong	8338 Aug 10 07:00	24° Ω 03'11	0°34'31
minimum elong	8337 Aug 25 22:00	9° ™ 27'45	0°57'35		8338 Aug 13 00:25	0° m ∕	
evening rise	8337 Sep 01 18:15	24° Mp 28'25		evening rise	8338 Aug 17 05:52	9° m 10'09	
	8337 Sep 04 09:13	0∘ 亚			8338 Aug 27 22:17	0∘ ত	
	8337 Sep 22 01:10	0° M		evening max el	8338 Sep 10 03:38	17° ≙ 50'11	23°45'15
desc. node	8337 Sep 23 16:33	2°M03'33		desc. node	8338 Sep 10 13:39	18° ≙ 14'03	
evening max el	8337 Sep 28 15:44	7° M 27′08	25°20'10	retrograde	8338 Sep 23 18:30	24° ₽ 39'06	
retrograde	8337 Oct 12 13:25	14°M28'32		evening set	8338 Sep 28 06:36	23° ≏ 54'44	
evening set	8337 Oct 18 10:26	13°M09'12		min. Earth dist.	8338 Oct 04 13:59	20° ≏ 52'54	0.55849 AU
min. Earth dist.	8337 Oct 23 03:37	10°M29'58	0.57518 AU	inferior conj	8338 Oct 06 16:25	19° ≏ 37'07	-5°34'42
inferior conj	8337 Oct 26 02:39	8°M29'19	-5°19'01	minimum elong	8338 Oct 06 15:12	19° ≏ 38'57	5°34'37
minimum elong	8337 Oct 26 07:48	8°M20'32		morning rise	8338 Oct 15 01:54	15° ≏ 41'53	
morning rise	8337 Nov 03 07:30	4°M15'16		direct	8338 Oct 17 21:16	15° ≏ 22'06	
direct	8337 Nov 05 17:13	3°M58'00		morning max el	8338 Oct 28 05:42	20° £ 14'03	20°06'52
morning max el	8337 Nov 14 14:39	8°M13'08	19°00'05	asc. node	8338 Nov 02 20:12	26° £ 51'44	_, ,,,,
asc. node	8337 Nov 15 23:12	9°M36'40	15 00 00	use. noue	8338 Nov 04 22:37	0°M	
use. noue	8337 Nov 28 17:14	0° ⊼ 7		morning set	8338 Nov 15 10:48	19° ™ 30'54	
morning set	8337 Dec 01 05:29	4° ₹ 154'42		morning sec	8338 Nov 20 13:35	0° ⊼	
morning set	0337 Dec 01 03.27	7 7 37 72			0550 1107 20 15.55	0 %	
superior conj	8337 Dec 09 14:11	21° ≯ 18'38	1°16'11	superior conj	8338 Nov 23 02:54	5° х 10'33	1°32'00
minimum elong	8337 Dec 09 17:22	21° ₹ 33'53	1°15'59	minimum elong	8338 Nov 23 05:03	5° ∡ ¹21'25	1°32'00
	8337 Dec 14 05:26	0°る		max. Earth dist.	8338 Nov 28 18:14	16° √ 11'49	1.36819 AU
max. Earth dist.	8337 Dec 16 11:57	4°る06'41	1.38942 AU	evening rise	8338 Dec 02 13:26	23° х 14′28	
evening rise	8337 Dec 20 08:08	10° る 50'40			8338 Dec 06 09:06	0°ප	
desc. node	8337 Dec 20 15:30	11° る 22'11		desc. node	8338 Dec 07 12:31	1° る 57'42	
desc. node	8338 Jan 01 04:28	0°≈		desc. node	8338 Dec 25 22:13	0°≈	
	8338 Jan 23 23:06	0° ∀		evening max el	8339 Jan 07 04:25	14° ≈ 28'39	25°45'03
evening max el	8338 Jan 24 15:13	0°) 40′30	24°32'33	retrograde	8339 Jan 19 14:16	21°≈34'52	23 13 03
retrograde	8338 Feb 05 03:22	7° ¥ 24'14	21 3233	evening set	8339 Jan 25 14:26	19° ≈ 06'52	
evening set	8338 Feb 10 14:54	5° ₩ 07'09		asc. node	8339 Jan 29 19:26	14°≈35'15	
asc. node	8338 Feb 11 22:23	3°) 52'34		min. Earth dist.	8339 Jan 29 22:04	14°≈27'02	0.67210 AU
min. Earth dist.	8338 Feb 15 05:25	29°≈52'44	0.67987 AU	inferior conj	8339 Jan 31 07:42	14 ∞27 02 12°≈40'29	0.07210 AC 0°29'58
iiiii. Lattii dist.	8338 Feb 15 03:14	20°R≈	0.01701 AU	minimum elong	8339 Jan 31 06:57	12°≈42'53	0°29'47
inferior conj	8338 Feb 16 03:41	28°≈38'23	1°20'59	morning rise	8339 Feb 05 23:57	6°≈49'05	0 2947
minimum elong	8338 Feb 16 03:41	28°≈44'13	1°20'26	direct	8339 Feb 09 07:12	5°≈46'31	
morning rise	8338 Feb 21 13:07	28 ≈44 13 22°≈38'30	1 20 20	morning max el	8339 Feb 09 07:12 8339 Feb 16 03:43	9°≈31'59	19°00'04
direct	8338 Feb 25 08:01	22 ≈36 30 21°≈16'20		greatest brilliancy	8339 Mar 02 04:31	28°≈32'39	-0.8m
			10057120	greatest offinality		20 ≈ 32 39 0° ∺	-0.8111
morning max el	8338 Mar 04 20:53 8338 Mar 08 20:40	25°≈30'28 0°) €	19°57'28	desc. node	8339 Mar 03 03:23	3° 升 37'53	
daga rada					8339 Mar 05 12:03		
desc. node	8338 Mar 18 15:06	13° ¥ 28'19 0° Ƴ		morning set	8339 Mar 10 22:01	12° 米 01′23 0° Ƴ	
	8338 Mar 29 14:38			E d v	8339 Mar 22 10:48		1 45000 433
morning set	8338 Mar 31 17:17	3°Υ14'36	1 44202 477	max. Earth dist.	8339 Mar 25 04:42	4° Υ 18'21	1.45229 AU
max. Earth dist.	8338 Apr 11 12:39	20° Y 09'43	1.44202 AU		0220 14 27 11 11	7000 × ···	2001120
	0220 4 16 21 25	200004	2011156	superior conj	8339 Mar 27 11:40	7° Y 54'38	
superior conj	8338 Apr 16 21:07	28° Y 46'48		minimum elong	8339 Mar 27 04:38	7° Y 26'55	2~01'16
minimum elong	8338 Apr 16 21:03	28° Y 46'34	2°12'00		8339 Apr 10 06:43	0°8	
	8338 Apr 17 15:04	0° 8		evening rise	8339 Apr 11 09:03	1° 8 47'16	

asc. node	8339 Apr 27 18:21 8339 Apr 29 19:32 8339 May 01 11:11	27° 8 26'02 0°П 1°П47'50	18°30'13	superior conj minimum elong max. Earth dist.	8340 Mar 05 16:25 8340 Mar 05 06:54 8340 Mar 07 00:11	16°) 42'27 16°) 05'07 18°) 46'50	-1°31'45 1°30'43 1.45527 AU
retrograde	8339 May 07 22:43	5° Ⅱ 18'56			8340 Mar 14 04:24	$0^{\circ}\mathbf{\Upsilon}$	
evening set	8339 May 11 02:11	4° Ⅱ 23'34		evening rise	8340 Mar 21 16:49	11° Y 45'46	
	8339 May 15 20:54	30° ₹ 8		greatest brilliancy	8340 Apr 01 12:08	28° Y 36'38	-0.8m
inferior conj	8339 May 16 20:08	28° 8 51'34	3°18'41		8340 Apr 02 09:57	9° 8	
minimum elong	8339 May 16 21:10	28° 8 48'27	3°18'26	asc. node	8340 Apr 13 15:24	15° 8 10'27	
min. Earth dist.	8339 May 18 23:37	26° 8 18'39	0.64818 AU	evening max el	8340 Apr 13 20:31	15° 8 23'30	19°08'43
morning rise	8339 May 22 15:19	22° 8 35'23		retrograde	8340 Apr 20 18:41	19° 8 17'05	
direct	8339 May 29 06:53	19° 8 50'14		evening set	8340 Apr 24 05:51	18° 8 07'09	
desc. node	8339 Jun 01 11:44	20° 8 23'30		inferior conj	8340 Apr 29 17:31	_	3°23'08
morning max el	8339 Jun 11 19:25	27° 8 46'33	27°17'06	minimum elong	8340 Apr 29 17:15	12° 8 20'01	3°23'00
	8339 Jun 13 22:02	0°II		min. Earth dist.	8340 May 01 05:36	10° 8 23'22	0.66378 AU
	8339 Jul 05 06:41	0.00		morning rise	8340 May 05 04:16	6° 8 01'05	
morning set	8339 Jul 17 05:51	21° © 33'51 0° Ω		direct	8340 May 11 11:26	3° 8 15'40	
Earth diet	8339 Jul 21 11:13	0° Ω 43'10	1 22440 ATT	desc. node	8340 May 18 08:42	5° 8 48'49	26914150
max. Earth dist.	8339 Jul 21 19:39 8339 Jul 24 17:34	6° Ω 46'58	1.33448 AU	morning max el	8340 May 24 05:48 8340 Jun 08 10:21	10° ႘ 52'04 0° Ⅱ	26°14'59
asc. node	8339 Jul 24 17.34	0 6640 38			8340 Jun 26 20:42	0°9	
superior conj	8339 Jul 25 12:16	8° Ω 25'42	0°07'53	morning set	8340 Jun 29 07:02	4° 5 28'05	
minimum elong	8339 Jul 25 12:10 8339 Jul 25 11:52	8° Ω 23'36	0°07'40	max. Earth dist.	8340 Jul 03 05:45	11°959'42	1.35004 AU
behind sun begin	8339 Jul 25 11:32 8339 Jul 25 06:58	$7^{\circ}\Omega57'40$	0 07 40	max. Earth dist.	8340 Jul 03 03.43	11 33942	1.55004 AU
behind sun end	8339 Jul 25 16:46	8° Ω 49'33		superior conj	8340 Jul 08 08:54	22°©15'21	-0°22'17
evening rise	8339 Aug 01 16:56	23° Ω 46'57		minimum elong	8340 Jul 08 10:11	22°921'55	
e vennig 1150	8339 Aug 04 16:46	0° m)		asc. node	8340 Jul 10 14:34	26°951'46	V 11
evening max el	8339 Aug 22 17:04	28° Mp 04'20	22°06'29	use. Itsue	8340 Jul 12 02:46	0°Ω	
	8339 Aug 24 20:18	0∘ ⊽	,	evening rise	8340 Jul 16 01:28	8° Ω 12'58	
desc. node	8339 Aug 28 10:45	2° Ω 28'59		8	8340 Jul 27 18:57	0° m)	
retrograde	8339 Sep 04 11:22	4° £ 25'06		evening max el	8340 Aug 03 16:19	8° m 43'41	20°38'41
evening set	8339 Sep 07 12:07	4° ഫ 04'42		desc. node	8340 Aug 14 07:50	14° m) 18'16	
min. Earth dist.	8339 Sep 15 22:14	0° £ 25'17	0.54856 AU	retrograde	8340 Aug 14 23:35	14° m 19'21	
inferior conj	8339 Sep 16 13:57	0° ഫ 03'14	-4°58'45	evening set	8340 Aug 17 01:36	14° m 08'43	
minimum elong	8339 Sep 16 05:49	0° ჲ 14'39	4°57'12	inferior conj	8340 Aug 26 06:40	10° m 11'45	-3°30'25
	8339 Sep 16 16:16	30°R M⊅		minimum elong	8340 Aug 25 21:39	10° m 24'41	3°27'35
morning rise	8339 Sep 25 01:02	26° Mp 15'09		min. Earth dist.	8340 Aug 27 07:30	9° ™ 36′07	0.54760 AU
direct	8339 Sep 28 10:05	25° m 49'49		morning rise	8340 Sep 03 17:29	6° Mp 10′47	
	8339 Oct 08 16:21	0∘ ⊽		direct	8340 Sep 07 18:32	5° m 35'46	
morning max el	8339 Oct 10 07:38	1° Ω 25'36	21°34'56	morning max el	8340 Sep 20 23:35	11° m 57'16	23°17'56
asc. node	8339 Oct 20 17:11	14° £ 58'36			8340 Oct 04 11:24	0∘ ʊ	
	8339 Oct 28 18:22	0°M		asc. node	8340 Oct 06 14:10	3° £ 44'58	
morning set	8339 Oct 30 20:06	4° M 16'47		morning set	8340 Oct 14 07:29	19° ≙ 06'57	
	9220 N	100 M 20141	1020157		8340 Oct 19 08:50	0° M ₊	
superior conj	8339 Nov 07 01:24 8339 Nov 07 02:15	19°M29'41	1°39'57 1°40'04	aumariar aani	9240 Oat 21 06:29	40 m 07!14	1°40'59
minimum elong max. Earth dist.	8339 Nov 11 06:01	19°M34'05 28°M05'25	1.34943 AU	superior conj minimum elong	8340 Oct 21 06:38 8340 Oct 21 06:13	4°M07'14 4°M05'00	1°41'04
max. Earm dist.	8339 Nov 12 04:58	20 11603 23 0°×7	1.34943 AU	max. Earth dist.	8340 Oct 21 00:13 8340 Oct 24 01:54	10°M05'35	1.33448 AU
evening rise	8339 Nov 12 04:38 8339 Nov 15 11:44	6° ₹ 123'04		evening rise	8340 Oct 24 01:34 8340 Oct 28 23:14	20°M07'00	1.33446 AU
desc. node	8339 Nov 24 09:33	22° × ⁷ 21'17		evening rise	8340 Nov 03 03:02	0°×7	
dese. node	8339 Nov 29 02:17	0°る		desc. node	8340 Nov 10 06:37	12° × 127'16	
evening max el	8339 Dec 20 17:45	28° る 11'41	26°43'14	dese. Hode	8340 Nov 22 02:42	0°る	
<i>y</i>	8339 Dec 22 16:57	0° ≈		evening max el	8340 Dec 02 06:29	11° る 39'38	27°19'48
retrograde	8340 Jan 02 19:32	5° ≈ 29'12		retrograde	8340 Dec 15 18:46	18° る 59'47	
evening set	8340 Jan 09 07:38	2° ≈ 54'18		evening set	8340 Dec 22 16:18	16° පි 24'09	
	8340 Jan 12 08:02	30°Ŗる		min. Earth dist.	8340 Dec 26 12:23	12° る 52'35	0.64574 AU
min. Earth dist.	8340 Jan 13 09:07	28° ප් 49'11	0.66066 AU	inferior conj	8340 Dec 28 21:21	10° る 19'36	-1°33'44
inferior conj	8340 Jan 15 06:22	26° る 35'56	-0°28'38	minimum elong	8340 Dec 29 00:13	10° ට 11'54	1°32'23
minimum elong	8340 Jan 15 07:10	26° る 33'34	0°28'08	asc. node	8341 Jan 02 13:33	5° පි 56'19	
asc. node	8340 Jan 16 16:30	24° る 57'08		morning rise	8341 Jan 04 09:41	4° る 52'59	
morning rise	8340 Jan 21 07:41	20° ප් 55'30		direct	8341 Jan 06 22:50	4° る 19'29	
direct	8340 Jan 24 04:56	20° ろ 09'20		morning max el	8341 Jan 13 09:23	7° ප 42'01	17°54'42
morning max el	8340 Jan 30 16:44	23° ප 37'57	18°18'57		8341 Jan 28 11:21	0° ≈	
	8340 Feb 04 22:27	0° ≈		morning set	8341 Jan 30 15:47	3°≈39'48	
morning set	8340 Feb 19 04:17	22°≈07'34		desc. node	8341 Feb 06 05:54	14° ≈ 37'39	
desc. node	8340 Feb 20 08:59	24°≈02'31			9241 E 1 12 06 45	20002114	0040100
	8340 Feb 24 02:29	0° ∀		superior conj	8341 Feb 13 06:47	26°≈03'14	
				minimum elong	8341 Feb 13 01:06	25° ≈ 40'27	U 46 34

	8341 Feb 15 18:10	0°) €		superior conj	8342 Jan 24 20:13	6° ≈ 32'10	-0°05'19
max. Earth dist.	8341 Feb 17 19:47	3°) 16′21	1.45075 AU	minimum elong	8342 Jan 24 19:42	6°≈29'59	0°05'05
evening rise	8341 Mar 01 07:43	21°) (08'59	1.43073710	behind sun begin	8342 Jan 24 10:59	5°≈53'31	0 03 03
evening rise	8341 Mar 07 02:41	0°Υ		behind sun end	8342 Jan 25 04:25	7°≈06'24	
greatest brilliancy	8341 Mar 16 02:31	13° Υ 27'28	-0.6m	max. Earth dist.	8342 Jan 31 12:39	17°≈29'32	1.43936 AU
evening max el	8341 Mar 28 00:54	29° Y 01'20	20°03'05	max. Earth dist.	8342 Feb 08 11:04	0° \	1.43730710
evening max er	8341 Mar 29 00:57	0°8	20 03 03	evening rise	8342 Feb 08 19:32	0°) 32'41	
asc. node	8341 Mar 31 12:29	1° 8 59'32		evening rise	8342 Feb 28 18:14	0°Υ	
retrograde	8341 Apr 04 17:00	3° 8 27'51		evening max el	8342 Mar 10 23:46	12° Υ 40'35	21°10'38
evening set	8341 Apr 08 12:40	2° 8 03'00		asc. node	8342 Mar 18 09:35	17° Υ 38'51	21 1030
evening set	8341 Apr 10 17:19	2 3 0°8 Υ		retrograde	8342 Mar 19 15:27	17° Υ 46'46	
inferior conj	8341 Apr 13 20:57	26° Υ 00'57	3°14'17	evening set	8342 Mar 23 20:46	16° Υ 06'49	
minimum elong	8341 Apr 13 19:39	26° Υ 05'22	3°14'17	inferior conj	8342 Mar 29 04:03		2°54'26
_	=	26 γ 03 22 24° γ 48'00		,		10° Υ 00'01	2°54'01
min. Earth dist.	8341 Apr 14 18:32 8341 Apr 19 02:24	24 1 48 00 19° Υ 43'50	0.67498 AU	minimum elong min. Earth dist.	8342 Mar 29 02:03 8342 Mar 29 12:21	9° Υ 24'20	0.68176 AU
morning rise		19 γ 43 30				3° Υ 38'57	0.08170 AU
direct desc. node	8341 Apr 24 21:47	22° Y $47'47$		morning rise	8342 Apr 03 07:09	1° Υ 20'28	
	8341 May 05 05:40		24954112	direct	8342 Apr 08 13:04	7° Υ 35'05	22024150
morning max el	8341 May 06 15:19	24°Υ10'08	24°54'12	morning max el	8342 Apr 19 00:39		23°24'39
	8341 May 11 20:32	8°0		desc. node	8342 Apr 22 02:37	10° Y 54'56	
	8341 Jun 01 20:25	0°II			8342 May 06 12:01	0° 8	
morning set	8341 Jun 11 15:13	16° Ⅲ 31'39		morning set	8342 May 24 00:58	27° 8 30'38	
max. Earth dist.	8341 Jun 15 06:05	23° ∏ 04'16	1.36974 AU		8342 May 25 12:13	$\Pi^{\circ 0}$	
	8341 Jun 18 22:44	0		max. Earth dist.	8342 May 28 01:53	4° Ⅱ 26′03	1.39194 AU
:	0241 I 21 10.22	50621157	0054107		8342 Jun 04 15:58	18° Ⅱ 06'57	1025112
superior conj	8341 Jun 21 19:22	5°931'57		superior conj			
minimum elong	8341 Jun 21 22:41	5°548'13	0°53'42	minimum elong	8342 Jun 04 21:10	18° Ⅱ 31'10	1°24'40
asc. node	8341 Jun 27 11:33	16°950'36			8342 Jun 10 22:00	0.20 0.20	
evening rise	8341 Jun 30 05:05	22° © 20'43		evening rise	8342 Jun 14 00:59	6°902'56	
	8341 Jul 04 02:05	0°N		asc. node	8342 Jun 14 08:35	6° © 39'41	
evening max el	8341 Jul 17 04:50	20° Ω 05'50	19°29'36		8342 Jun 28 04:57	0° Ω	
retrograde	8341 Jul 26 19:11	24° £ 50′13		evening max el	8342 Jun 30 05:08	• • • • •	18°41'22
evening set	8341 Jul 28 15:37	24° Ω 40′24		retrograde	8342 Jul 08 07:32	6° Ω 13'03	
desc. node	8341 Aug 01 04:55	23° Ω 32'00		evening set	8342 Jul 10 08:34	5° Ω 58'37	
inferior conj	8341 Aug 06 09:01	20° Ω 34'41		inferior conj	8342 Jul 18 06:54	1° Ω 35'12	0°14'19
minimum elong	8341 Aug 06 04:43	20° Ω 41'34	1°33'31	minimum elong	8342 Jul 18 07:27	1° Ω 34'11	0°13'58
min. Earth dist.	8341 Aug 08 19:53	19° Ω 00'36	0.55613 AU	transit middle	8342 Jul 18 07:27	1° Ω 34'11	0°13'58
morning rise	8341 Aug 14 15:18	16° Ω 02'04		transit begin	8342 Jul 18 05:37	1° Ω 37'35	
direct	8341 Aug 19 11:35	15° Ω 09'16		transit end	8342 Jul 18 09:16	1° Ω 30'47	
morning max el	8341 Sep 02 12:04	22° Ω 11′23	25°02'45	desc. node	8342 Jul 19 01:58	0° Ω 59'26	
	8341 Sep 09 09:41	0°Щ			8342 Jul 20 09:44	30° ₹ ∽	
asc. node	8341 Sep 23 11:08	23° Mp 00'06		min. Earth dist.	8342 Jul 21 12:46	29° © 10'51	0.57256 AU
	8341 Sep 26 22:26	0∘ ⊽		morning rise	8342 Jul 26 02:49	26° © 25'29	
morning set	8341 Sep 28 19:10	3° £ 55'26		direct	8342 Jul 31 19:20	25° © 05'30	
					8342 Aug 12 04:50	$0^{\circ}\Omega$	
superior conj	8341 Oct 05 16:01	18° ≏ 54'38	1°35'51	morning max el	8342 Aug 15 03:28	2° Ω 37'05	26°32'25
minimum elong	8341 Oct 05 14:36	18° ≏ 46'52	1°35'48		8342 Sep 03 18:07	0° m	
max. Earth dist.	8341 Oct 07 05:20	22° ≏ 18'43	1.32391 AU	asc. node	8342 Sep 10 08:07	12° Mp 36'25	
	8341 Oct 10 19:14	0°M		morning set	8342 Sep 13 05:32	18° m ∕37'31	
evening rise	8341 Oct 12 20:28	4°M16'34			8342 Sep 18 10:51	0∘ ⊽	
	8341 Oct 26 19:48	0° ∡ 7					
desc. node	8341 Oct 28 03:42	2° ҂ 07'33		superior conj	8342 Sep 20 03:31	3° ≙ 45'23	1°25'09
evening max el	8341 Nov 14 16:52	24° ∡ ⁴40'12	27°28'25	minimum elong	8342 Sep 20 01:28	3° ≙ 34'01	1°24'54
	8341 Nov 21 17:14	0°る		max. Earth dist.	8342 Sep 20 13:51	4° ≙ 42'39	1.31793 AU
retrograde	8341 Nov 28 11:21	1° る 57'17		evening rise	8342 Sep 27 00:37	18° ≏ 43'58	
	8341 Dec 04 19:06	30°₽ ⋌			8342 Oct 02 14:28	0° M,	
evening set	8341 Dec 05 13:35	29° ҂ ¹29'52		desc. node	8342 Oct 15 00:47	21°M11'42	
min. Earth dist.	8341 Dec 09 06:07	26° 渘 ¹27'41	0.62769 AU		8342 Oct 21 12:22	0° ∡ ¹	
inferior conj	8341 Dec 12 01:50	23° ∡ ¹44'47	-2°43'13	evening max el	8342 Oct 27 22:38	7° ∡ 01'22	27°04'16
minimum elong	8341 Dec 12 07:01	23° ∡ ³32′18	2°41'05	retrograde	8342 Nov 10 20:12	14° ∡ 12′08	
morning rise	8341 Dec 19 02:32	18° ₹ 35'02		evening set	8342 Nov 17 19:42	12° ∡ 03'47	
asc. node	8341 Dec 20 10:36	18° ∡ 14'51		min. Earth dist.	8342 Nov 21 13:20	9° ∡ 22'19	0.60745 AU
direct	8341 Dec 21 09:58	18° ∡ 10′25		inferior conj	8342 Nov 24 16:33	6° ∡¹ 42'59	-3°52'36
morning max el	8341 Dec 28 02:39	21° ∡ ³36′18	17°47'59	minimum elong	8342 Nov 24 23:33	6° ≯ 28'05	3°50'16
	8342 Jan 03 12:45	ರ°0		morning rise	8342 Dec 02 05:47	1° х 53′03	
morning set	8342 Jan 13 03:28	16° පි 21'36		direct	8342 Dec 04 10:40	1° х ³33'44	
	8342 Jan 20 23:27	0°≈		asc. node	8342 Dec 07 07:39	2° ҂ 08'03	
desc. node	8342 Jan 24 02:53	5° ≈ 19'33		morning max el	8342 Dec 11 17:08	5° ҂ 11'42	17°59'49

morning set	8342 Dec 27 08:48	29° ₹ 53'08		morning set	8343 Dec 11 02:27	13° ≯ 58'58	
	8342 Dec 27 10:17	0° ප			8343 Dec 19 11:27	0°₹	
superior conj	8343 Jan 06 11:07	18° る 13'40	0°33'17	superior conj	8343 Dec 19 23:50	0° 궁 57'41	1°03'08
minimum elong	8343 Jan 06 13:42	18° る 25'04	0°33'03	minimum elong	8343 Dec 20 03:15	1° る 13'32	1°02'51
desc. node	8343 Jan 10 23:52	26° පි 04'19		max. Earth dist.	8343 Dec 27 09:34	14° る 16'35	1.40200 AU
	8343 Jan 13 07:50	0° ≈		desc. node	8343 Dec 28 20:54	16° る 48'45	
max. Earth dist.	8343 Jan 14 01:12	1°≈12'18	1.42247 AU	evening rise	8343 Dec 31 15:07	21° る 28'18	
evening rise	8343 Jan 19 19:05	10°≈32'31	1.12217110	evening rise	8344 Jan 05 20:54	0°≈	
evening rise	8343 Feb 01 12:56	0°) €			8344 Jan 26 15:05	0° ₩	
			2202711.4				22047110
evening max el	8343 Feb 21 17:47	26°) €21'40	22°27'14	evening max el	8344 Feb 04 08:31	10°) €06'12	23°47'19
	8343 Feb 25 22:15	0° Υ		retrograde	8344 Feb 15 05:49	16°) 30′58	
retrograde	8343 Mar 03 12:10	2° Y 09'02		evening set	8344 Feb 20 10:13	14° ∺ 21'27	
asc. node	8343 Mar 05 06:41	1° Ƴ 53'11		asc. node	8344 Feb 20 03:46	14°) (34'47	
evening set	8343 Mar 08 04:27	0° Υ 14'02		min. Earth dist.	8344 Feb 25 05:17	8°) 47′24	0.68270 AU
	8343 Mar 08 11:00	30° ₹ ₩		inferior conj	8344 Feb 25 20:58	7°) 53′57	1°46'46
inferior conj	8343 Mar 13 12:40	23°) 51′39	2°24'58	minimum elong	8344 Feb 25 18:53	8°) €01'02	1°46'08
minimum elong	8343 Mar 13 10:25	23°) 59'30	2°24'23	morning rise	8344 Mar 02 03:34	1° ¥ 50'11	
min. Earth dist.	8343 Mar 13 08:41	24°) (05'31	0.68427 AU	direct	8344 Mar 06 05:57	0°) 15′26	
morning rise	8343 Mar 18 16:13	17°) (41'57	0.00427710	morning max el	8344 Mar 14 07:18	4°) 50'59	20037120
direct	8343 Mar 23 08:11	17 X 4137		desc. node		19° H 22'25	20 37 20
			21056152	desc. node	8344 Mar 25 20:32		
morning max el	8343 Apr 01 12:46	21°) (07'10	21°56'52		8344 Apr 02 03:48	0° Υ	
desc. node	8343 Apr 08 23:34	29° ∺ 50′50		morning set	8344 Apr 12 13:17	15° Ƴ 48'54	
	8343 Apr 09 02:23	$0^{\circ}\Upsilon$		max. Earth dist.	8344 Apr 21 06:57	29° Ƴ 38'40	1.43329 AU
	8343 Apr 29 18:12	9° 8			8344 Apr 21 12:14	9° 8	
morning set	8343 May 04 07:32	7° 8 12'47					
max. Earth dist.	8343 May 10 00:43	16° 8 34'13	1.41407 AU	superior conj	8344 Apr 27 21:10	10° 8 28'37	-2°08'59
	•			minimum elong	8344 Apr 28 00:26	10° 8 42'14	2°08'59
superior conj	8343 May 17 18:05	29° 8 49'05	-1°51'57	S	8344 May 09 05:22	0° I I	
minimum elong	8343 May 17 23:52	0° ∏ 14'34		evening rise	8344 May 10 02:08	1° ∏ 31'26	
minimum ciong	8343 May 17 20:34	0°П	1 31 33	asc. node	8344 May 18 02:40	15° П 27'26	
avanina riaa	•	19° Ⅱ 09'48			•	27° II 58'56	10005122
evening rise	8343 May 28 09:27			evening max el	8344 May 27 01:52		18°05'23
asc. node	8343 Jun 01 05:38	26° Ⅱ 13'50			8344 May 29 12:40	0°©	
	8343 Jun 03 08:02	0 \circ \odot		retrograde	8344 Jun 02 14:04	1° © 20'25	
evening max el	8343 Jun 13 13:25	14° © 52'59	18°13'36	evening set	8344 Jun 05 06:05	0°9346'05	
retrograde	8343 Jun 20 14:53	18° © 26'18			8344 Jun 06 17:12	30°Ŗ Ⅱ	
evening set	8343 Jun 22 23:25	18° 5 03'16		inferior conj	8344 Jun 11 17:04	25° Ⅱ 41'57	2°36'04
inferior conj	8343 Jun 30 02:27	13° © 19'08	1°39'07	minimum elong	8344 Jun 11 19:56	25° Ⅲ 34'43	2°35'14
minimum elong	8343 Jun 30 05:16	13° © 12'58	1°38'03	min. Earth dist.	8344 Jun 14 18:31	22° Ⅲ 38'35	0.61617 AU
min. Earth dist.	8343 Jul 03 11:37	10°523'24	0.59370 AU	morning rise	8344 Jun 18 07:41	19° Ⅱ 40′09	
desc. node	8343 Jul 05 23:01	8° © 30'28		desc. node	8344 Jun 21 20:04	17° Ⅱ 51'37	
morning rise	8343 Jul 07 08:03	7° © 38'20		direct	8344 Jun 25 00:36	17° Ⅱ 20'22	
direct	8343 Jul 13 16:28	5°5946'56		morning max el	8344 Jul 09 05:32	25° I I20'53	27°55'38
morning max el	8343 Jul 28 01:13	13° © 37'07	27022120	morning max ci	8344 Jul 13 12:06	0°95	27 33 36
morning max ci		0°Ω	21 32 36			0°Ω	
	8343 Aug 10 02:49				8344 Aug 02 14:14		
_	8343 Aug 27 00:34	0° m/y		morning set	8344 Aug 11 15:16	17° Ω 21'56	
asc. node	8343 Aug 28 05:07	2° m 27'44		asc. node	8344 Aug 14 02:04	22° Ω 28′10	
morning set	8343 Aug 28 12:54	3°Mp08′27		max. Earth dist.	8344 Aug 17 08:13		1.31973 AU
max. Earth dist.	8343 Sep 04 00:08	17° Mp 09'48	1.31652 AU		8344 Aug 17 14:08	0° m y	
superior conj	8343 Sep 04 15:16	18° m ∕33'37	1°09'20	superior conj	8344 Aug 19 01:23	3° Mp 12'55	0°48'47
minimum elong	8343 Sep 04 13:01	18° Mp 21'08	1°08'56	minimum elong	8344 Aug 18 23:25	3° Mp 02'10	0°48'19
	8343 Sep 09 19:44	0∘ ত		evening rise	8344 Aug 25 20:23	18° Mp 04'31	
evening rise	8343 Sep 11 09:19	ვ° ჲ 22'22			8344 Aug 31 15:42	0∘ ⊽	
	8343 Sep 25 12:01	0°M		desc. node	8344 Sep 17 18:59	26° ≏ 28'28	
desc. node	8343 Oct 01 21:53	9°M25'32		evening max el	8344 Sep 20 11:57	29° £ 16'39	24041120
evening max el	8343 Oct 01 21:33 8343 Oct 09 21:18	18°M33'52	26°06'33	Croning max of	8344 Sep 21 06:29	29 = 10 39 0° M	27 71 20
•			20 0033	ratra a 1 -	•		
retrograde	8343 Oct 23 19:30	25°M37'58		retrograde	8344 Oct 04 07:26	6°M13'30	
evening set	8343 Oct 30 05:58	23°M58'50		evening set	8344 Oct 09 15:59	5°M09'25	
min. Earth dist.	8343 Nov 03 10:16	21°M24'06	0.58661 AU	min. Earth dist.	8344 Oct 14 23:02	2°M22'58	0.56754 AU
inferior conj	8343 Nov 06 14:00	19°M04'43		inferior conj	8344 Oct 17 15:20	0°M39'55	
minimum elong	8343 Nov 06 20:53	18° M 51'59	4°51'47	minimum elong	8344 Oct 17 18:15	0° M 35′14	5°30'42
morning rise	8343 Nov 14 14:07	14°M37'09			8344 Oct 18 16:20	30° ₹ Ω	
direct	8343 Nov 16 20:45	14°M19'53		morning rise	8344 Oct 25 22:42	26° ≏ 34'51	
asc. node	8343 Nov 24 04:41	17° M 31'21		direct	8344 Oct 28 12:10	26° ≏ 16'45	
morning max el	8343 Nov 25 01:16	18°M18'38	18°31'48		8344 Nov 06 03:12	0°M	
0	8343 Dec 03 13:08	0° ∡ 7		morning max el	8344 Nov 06 23:23	0°M45'50	19°25'41
		- ··				5 He 15 50	20 .1

aca mada	8344 Nov 10 01:41	4°M09'48		direct	8345 Oct 09 08:24	7° Ω 16'25	
asc. node							20041155
morning set	8344 Nov 24 04:21	28°M26'21		morning max el	8345 Oct 20 08:54	12° Ω 25'57	20°41'55
	8344 Nov 24 23:02	0°⊀		asc. node	8345 Oct 27 22:41	21° △ 48′18	
					8345 Nov 01 19:29	0°M₊	
superior conj	8344 Dec 02 05:09	14° ∡ *28′36	1°23'54	morning set	8345 Nov 08 11:35	13°M07'07	
minimum elong	8344 Dec 02 07:58	14° ∡ ⁴42'23	1°23'48				
max. Earth dist.	8344 Dec 08 15:24	26° ₹ 39'42	1.38028 AU	superior conj	8345 Nov 15 22:28	28° ™ 33'24	1°36'16
	8344 Dec 10 11:34	o°ප		minimum elong	8345 Nov 16 00:05	28°M41'38	1°36'20
evening rise	8344 Dec 12 08:52	3° ⋜ 21′06			8345 Nov 16 15:29	0° ∡ 7	
desc. node	8344 Dec 14 17:55	7° る 28'23		max. Earth dist.	8345 Nov 20 23:14	8° ∡ ³35'54	1.35983 AU
	8344 Dec 28 23:33	0° ≈		evening rise	8345 Nov 24 21:50	16° ∡ 04'42	
evening max el	8345 Jan 16 21:41	23°≈53'05	25°04'33	desc. node	8345 Dec 01 14:56	27° ∡ ¹59'03	
Ç	8345 Jan 25 04:46	0°) €			8345 Dec 02 19:39	0° ح	
retrograde	8345 Jan 28 19:24	0°){ 47'24			8345 Dec 23 11:51	0° ≈	
retrograde	8345 Feb 01 03:36	30°R≈		evening max el	8345 Dec 30 10:42	7° ≈ 38'54	26°11'52
evening set	8345 Feb 03 12:30	28°≈25'02		retrograde	8346 Jan 12 04:08	14°≈51'52	20 11 32
asc. node	8345 Feb 06 00:50			•	8346 Jan 18 09:35	14 ≈31 32 12°≈20'01	
		25°≈51'51	0.67710.411	evening set			0.66760.444
min. Earth dist.	8345 Feb 07 23:56	23°≈25'36	0.67710 AU	min. Earth dist.	8346 Jan 22 14:24	7°≈55'09	0.66768 AU
inferior conj	8345 Feb 09 03:05	21°≈56'47	1°00'18	asc. node	8346 Jan 23 21:55	6°≈18'13	
minimum elong	8345 Feb 09 01:41	22°≈01′20	0°59'52	inferior conj	8346 Jan 24 05:04	5° ≈ 56'08	0°05'58
morning rise	8345 Feb 14 15:09	16° ≈ 00'31		minimum elong	8346 Jan 24 04:54	5° ≈ 56'38	0°06'02
direct	8345 Feb 18 04:56	14° ≈ 47′06		transit middle	8346 Jan 24 04:54	5° ≈ 56'38	0°06'02
morning max el	8345 Feb 25 09:51	18° ≈ 47'10	19°31'08	transit begin	8346 Jan 24 02:15	6° ≈ 04'50	
	8345 Mar 06 08:51	0°) €		transit end	8346 Jan 24 07:34	5° ≈ 48'27	
greatest brilliancy	8345 Mar 10 04:26	5°) €32'24	-0.7m	morning rise	8346 Jan 30 00:56	0° ≈ 09'18	
desc. node	8345 Mar 12 17:30	9° ∺ 20'03		•	8346 Jan 30 07:34	30°R₹	
morning set	8345 Mar 22 11:10	24°) 11'09		direct	8346 Feb 02 03:37	29° る 14'21	
	8345 Mar 26 05:25	0°Υ		******	8346 Feb 05 01:46	0°≈	
max. Earth dist.	8345 Apr 03 20:02	13° Υ 28'26	1.44721 AU	morning max el	8346 Feb 08 19:38	2°≈51'25	18°40'30
max. Earth dist.	0545 Apr 05 20.02	13 2020	1.44/21/10	desc. node	8346 Feb 27 14:26	29°≈36'20	10 40 30
	9245 A 07 22.26	20° Y ′04'37	2010/04	desc. Hode		29 ≈ 30 20	
superior conj	8345 Apr 07 23:36			. ,	8346 Feb 27 20:28		
minimum elong	8345 Apr 07 20:30	19° Y 52'12	2°10'04	morning set	8346 Mar 02 01:15	3°) €27'22	
	8345 Apr 14 02:40	0°8		max. Earth dist.	8346 Mar 17 13:32	27°) (46′05	1.45441 AU
evening rise	8345 Apr 21 22:28	12° 8 58'48					
	8345 May 02 05:18	Π $^{\circ}0$		superior conj	8346 Mar 18 07:48	28° ¥ 57'35	
asc. node	8345 May 04 23:43	4° Ⅱ 13'47		minimum elong	8346 Mar 17 22:49	28°) €22′26	1°50'23
evening max el	8345 May 10 15:08	11° Ⅱ 21′24	18°15'56		8346 Mar 18 23:43	0° Y	
retrograde	8345 May 17 00:27	14° Ⅱ 45'34		evening rise	8346 Apr 02 19:18	23° Y 27'17	
evening set	8345 May 19 23:38	13° Ⅲ 58'17			8346 Apr 06 21:20	0°B	
inferior conj	8345 May 25 22:40	8° Ⅱ 35'55	3°08'50	greatest brilliancy	8346 Apr 10 12:11	5° 8 46'38	-0.9m
minimum elong	8345 May 26 00:29			,			
min. Earth dist.		8° H 30'4/	3°08'25	asc. node	8346 Apr 21 20:47	22° 8 23'45	
iiiii. Lartii dist.	•		3°08'25 0.63727 AU	asc. node	8346 Apr 21 20:47	22° 8 23'45	18°44'34
morning rice	8345 May 28 10:49	5° Ⅱ 46'50	3°08'25 0.63727 AU	evening max el	8346 Apr 24 02:32	24° 8 53'26	18°44'34
morning rise	8345 May 28 10:49 8345 Jun 01 00:06	5°Ⅲ46'50 2°Ⅲ22'40		evening max el retrograde	8346 Apr 24 02:32 8346 Apr 30 17:49	24° 8 53'26 28° 8 33'02	18°44'34
_	8345 May 28 10:49 8345 Jun 01 00:06 8345 Jun 05 12:41	5°П46'50 2°П22'40 30°R 8		evening max el retrograde evening set	8346 Apr 24 02:32 8346 Apr 30 17:49 8346 May 04 00:22	24°\dagger 53'26 28°\dagger 33'02 27°\dagger 31'43	
direct	8345 May 28 10:49 8345 Jun 01 00:06 8345 Jun 05 12:41 8345 Jun 07 17:54	5°∏46′50 2°∏22′40 30°R ႘ 29° ႘ 43′22		evening max el retrograde evening set inferior conj	8346 Apr 24 02:32 8346 Apr 30 17:49 8346 May 04 00:22 8346 May 09 15:16	24°\dagger 53'26 28°\dagger 33'02 27°\dagger 31'43 21°\dagger 52'49	3°22'22
_	8345 May 28 10:49 8345 Jun 01 00:06 8345 Jun 05 12:41 8345 Jun 07 17:54 8345 Jun 08 17:05	5°II46'50 2°II22'40 30°R 8 29° 8 43'22 29° 8 46'22		evening max el retrograde evening set inferior conj minimum elong	8346 Apr 24 02:32 8346 Apr 30 17:49 8346 May 04 00:22 8346 May 09 15:16 8346 May 09 15:44	24°\delta53'26 28°\delta33'02 27°\delta31'43 21°\delta52'49 21°\delta51'21	3°22'22 3°22'12
direct desc. node	8345 May 28 10:49 8345 Jun 01 00:06 8345 Jun 05 12:41 8345 Jun 07 17:54 8345 Jun 08 17:05 8345 Jun 10 01:05	5°∏46'50 2°∏22'40 30°R ୪ 29° ୪ 43'22 29° ४ 46'22 0°∏	0.63727 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	8346 Apr 24 02:32 8346 Apr 30 17:49 8346 May 04 00:22 8346 May 09 15:16 8346 May 09 15:44 8346 May 11 12:13	24°\delta53'26 28°\delta33'02 27°\delta31'43 21°\delta52'49 21°\delta51'21 19°\delta34'16	3°22'22
direct	8345 May 28 10:49 8345 Jun 01 00:06 8345 Jun 05 12:41 8345 Jun 07 17:54 8345 Jun 08 17:05 8345 Jun 10 01:05 8345 Jun 21 14:23	5°II46'50 2°II22'40 30°R& 29°&43'22 29°&46'22 0°II 7°II45'18	0.63727 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8346 Apr 24 02:32 8346 Apr 30 17:49 8346 May 04 00:22 8346 May 09 15:16 8346 May 09 15:44 8346 May 11 12:13 8346 May 15 06:26	24°\delta53'26 28°\delta33'02 27°\delta31'43 21°\delta52'49 21°\delta51'21 19°\delta34'16 15°\delta35'03	3°22'22 3°22'12
direct desc. node	8345 May 28 10:49 8345 Jun 01 00:06 8345 Jun 05 12:41 8345 Jun 07 17:54 8345 Jun 08 17:05 8345 Jun 10 01:05 8345 Jun 21 14:23 8345 Jul 08 17:13	5°∏46'50 2°∏22'40 30°R ४ 29° ४ 43'22 29° ४ 46'22 0°∏ 7°∏45'18 0°©	0.63727 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8346 Apr 24 02:32 8346 Apr 30 17:49 8346 May 04 00:22 8346 May 09 15:16 8346 May 09 15:44 8346 May 11 12:13 8346 May 15 06:26 8346 May 21 18:55	24°\delta53'26 28°\delta33'02 27°\delta31'43 21°\delta52'49 21°\delta51'21 19°\delta34'16 15°\delta35'03 12°\delta48'11	3°22'22 3°22'12
direct desc. node	8345 May 28 10:49 8345 Jun 01 00:06 8345 Jun 05 12:41 8345 Jun 07 17:54 8345 Jun 08 17:05 8345 Jun 10 01:05 8345 Jun 21 14:23	5°II46'50 2°II22'40 30°R& 29°&43'22 29°&46'22 0°II 7°II45'18	0.63727 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8346 Apr 24 02:32 8346 Apr 30 17:49 8346 May 04 00:22 8346 May 09 15:16 8346 May 09 15:44 8346 May 11 12:13 8346 May 15 06:26	24°\delta53'26 28°\delta33'02 27°\delta31'43 21°\delta52'49 21°\delta51'21 19°\delta34'16 15°\delta35'03 12°\delta48'11 14°\delta03'02	3°22'22 3°22'12 0.65526 AU
direct desc. node	8345 May 28 10:49 8345 Jun 01 00:06 8345 Jun 05 12:41 8345 Jun 07 17:54 8345 Jun 08 17:05 8345 Jun 10 01:05 8345 Jun 21 14:23 8345 Jul 08 17:13	5°∏46'50 2°∏22'40 30°R ४ 29° ४ 43'22 29° ४ 46'22 0°∏ 7°∏45'18 0°©	0.63727 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8346 Apr 24 02:32 8346 Apr 30 17:49 8346 May 04 00:22 8346 May 09 15:16 8346 May 09 15:44 8346 May 11 12:13 8346 May 15 06:26 8346 May 21 18:55	24°\delta53'26 28°\delta33'02 27°\delta31'43 21°\delta52'49 21°\delta51'21 19°\delta34'16 15°\delta35'03 12°\delta48'11	3°22'22 3°22'12 0.65526 AU
direct desc. node morning max el	8345 May 28 10:49 8345 Jun 01 00:06 8345 Jun 05 12:41 8345 Jun 07 17:54 8345 Jun 08 17:05 8345 Jun 10 01:05 8345 Jun 21 14:23 8345 Jul 08 17:13 8345 Jul 25 19:53	5°II46'50 2°II22'40 30°R& 29°&43'22 29°&46'22 0°II 7°II45'18 0°S 0°N 1°N11'37	0.63727 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	8346 Apr 24 02:32 8346 Apr 30 17:49 8346 May 04 00:22 8346 May 09 15:16 8346 May 09 15:44 8346 May 11 12:13 8346 May 15 06:26 8346 May 21 18:55 8346 May 26 14:06	24°\delta53'26 28°\delta33'02 27°\delta31'43 21°\delta52'49 21°\delta51'21 19°\delta34'16 15°\delta35'03 12°\delta48'11 14°\delta03'02	3°22'22 3°22'12 0.65526 AU
direct desc. node morning max el	8345 May 28 10:49 8345 Jun 01 00:06 8345 Jun 05 12:41 8345 Jun 07 17:54 8345 Jun 08 17:05 8345 Jun 10 01:05 8345 Jun 21 14:23 8345 Jul 08 17:13 8345 Jul 25 19:53 8345 Jul 26 10:20	5°II46'50 2°II22'40 30°R& 29°&43'22 29°&46'22 0°II 7°II45'18 0°S 0°N 1°N11'37	0.63727 AU 27°40'56	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	8346 Apr 24 02:32 8346 Apr 30 17:49 8346 May 04 00:22 8346 May 09 15:16 8346 May 09 15:44 8346 May 11 12:13 8346 May 15 06:26 8346 May 21 18:55 8346 May 26 14:06 8346 Jun 04 00:49	24°\delta53'26 28°\delta33'02 27°\delta31'43 21°\delta52'49 21°\delta51'21 19°\delta34'16 15°\delta35'03 12°\delta48'11 14°\delta03'02 20°\delta38'50	3°22'22 3°22'12 0.65526 AU
direct desc. node morning max el morning set max. Earth dist.	8345 May 28 10:49 8345 Jun 01 00:06 8345 Jun 05 12:41 8345 Jun 07 17:54 8345 Jun 08 17:05 8345 Jun 10 01:05 8345 Jun 21 14:23 8345 Jul 08 17:13 8345 Jul 25 19:53 8345 Jul 26 10:20 8345 Jul 31 10:05	5°II46'50 2°II22'40 30°R& 29°&43'22 29°&46'22 0°II 7°II45'18 0°© 0°A 1°A11'37 11°A25'12	0.63727 AU 27°40'56	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	8346 Apr 24 02:32 8346 Apr 30 17:49 8346 May 04 00:22 8346 May 09 15:16 8346 May 09 15:44 8346 May 11 12:13 8346 May 15 06:26 8346 May 21 18:55 8346 May 26 14:06 8346 Jun 04 00:49 8346 Jun 12 02:05 8346 Jul 01 20:23	24°\delta53'26 28°\delta33'02 27°\delta31'43 21°\delta52'49 21°\delta51'21 19°\delta34'16 15°\delta35'03 12°\delta48'11 14°\delta03'02 20°\delta38'50 0°\pi 0°\delta	3°22'22 3°22'12 0.65526 AU
direct desc. node morning max el morning set max. Earth dist. asc. node	8345 May 28 10:49 8345 Jun 01 00:06 8345 Jun 05 12:41 8345 Jun 07 17:54 8345 Jun 08 17:05 8345 Jun 10 01:05 8345 Jun 21 14:23 8345 Jul 08 17:13 8345 Jul 25 19:53 8345 Jul 26 10:20 8345 Jul 31 10:05 8345 Jul 31 23:02	5°II46'50 2°II22'40 30°R& 29°B43'22 29°B46'22 0°II 7°II45'18 0°S 0°A 1°A11'37 11°A25'12 12°A33'28	0.63727 AU 27°40'56 1.32765 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	8346 Apr 24 02:32 8346 Apr 30 17:49 8346 May 04 00:22 8346 May 09 15:16 8346 May 09 15:44 8346 May 11 12:13 8346 May 15 06:26 8346 May 21 18:55 8346 May 26 14:06 8346 Jun 04 00:49 8346 Jun 02:05 8346 Jun 12 02:05 8346 Jul 01 20:23 8346 Jul 09 19:05	24°\delta53'26 28°\delta33'02 27°\delta31'43 21°\delta52'49 21°\delta51'21 19°\delta34'16 15°\delta35'03 12°\delta48'11 14°\delta03'02 20°\delta38'50 0°\pi 0°\delta 14°\delta28'27	3°22'22 3°22'12 0.65526 AU 26°53'35
direct desc. node morning max el morning set max. Earth dist. asc. node superior conj	8345 May 28 10:49 8345 Jun 01 00:06 8345 Jun 05 12:41 8345 Jun 07 17:54 8345 Jun 08 17:05 8345 Jun 10 01:05 8345 Jun 21 14:23 8345 Jul 08 17:13 8345 Jul 25 19:53 8345 Jul 26 10:20 8345 Jul 31 10:05 8345 Jul 31 23:02	5°II46'50 2°II22'40 30°R& 29°B43'22 29°B46'22 0°II 7°II45'18 0°© 0°A 1°A11'37 11°A25'12 12°A33'28	0.63727 AU 27°40'56 1.32765 AU 0°23'55	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	8346 Apr 24 02:32 8346 Apr 30 17:49 8346 May 04 00:22 8346 May 09 15:16 8346 May 09 15:44 8346 May 11 12:13 8346 May 15 06:26 8346 May 21 18:55 8346 May 26 14:06 8346 Jun 04 00:49 8346 Jun 12 02:05 8346 Jul 01 20:23 8346 Jul 09 19:05 8346 Jul 14 02:07	24°\delta53'26 28°\delta33'02 27°\delta31'43 21°\delta52'49 21°\delta51'21 19°\delta34'16 15°\delta35'03 12°\delta48'11 14°\delta03'02 20°\delta38'50 0°\pi 0°\delta 14°\delta28'27 22°\delta53'48	3°22'22 3°22'12 0.65526 AU
direct desc. node morning max el morning set max. Earth dist. asc. node	8345 May 28 10:49 8345 Jun 01 00:06 8345 Jun 05 12:41 8345 Jun 07 17:54 8345 Jun 08 17:05 8345 Jun 10 01:05 8345 Jun 21 14:23 8345 Jul 08 17:13 8345 Jul 25 19:53 8345 Jul 26 10:20 8345 Jul 31 10:05 8345 Jul 31 23:02 8345 Aug 03 08:02 8345 Aug 03 06:54	5°II46'50 2°II22'40 30°R8 29°8'43'22 29°8'46'22 0°II 7°II45'18 0°© 0°Ω 1°Ω11'37 11°Ω25'12 12°Ω33'28 17°Ω37'47 17°Ω31'42	0.63727 AU 27°40'56 1.32765 AU 0°23'55	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	8346 Apr 24 02:32 8346 Apr 30 17:49 8346 May 04 00:22 8346 May 09 15:16 8346 May 09 15:44 8346 May 11 12:13 8346 May 15 06:26 8346 May 21 18:55 8346 May 26 14:06 8346 Jun 04 00:49 8346 Jun 02:05 8346 Jun 12 02:05 8346 Jul 01 20:23 8346 Jul 09 19:05	24°\delta53'26 28°\delta33'02 27°\delta31'43 21°\delta52'49 21°\delta51'21 19°\delta34'16 15°\delta35'03 12°\delta48'11 14°\delta03'02 20°\delta38'50 0°\pi 0°\delta 14°\delta28'27	3°22'22 3°22'12 0.65526 AU 26°53'35
direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong	8345 May 28 10:49 8345 Jun 01 00:06 8345 Jun 05 12:41 8345 Jun 07 17:54 8345 Jun 08 17:05 8345 Jun 10 01:05 8345 Jun 21 14:23 8345 Jul 08 17:13 8345 Jul 25 19:53 8345 Jul 26 10:20 8345 Jul 31 10:05 8345 Jul 31 23:02 8345 Aug 03 08:02 8345 Aug 03 06:54 8345 Aug 09 01:13	5° \$\Pi46'50\\ 2° \$\Pi22'40\\ 30° \$\Boldon \Boldon \Bo	0.63727 AU 27°40'56 1.32765 AU 0°23'55	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	8346 Apr 24 02:32 8346 Apr 30 17:49 8346 May 04 00:22 8346 May 09 15:16 8346 May 09 15:44 8346 May 11 12:13 8346 May 15 06:26 8346 May 21 18:55 8346 May 26 14:06 8346 Jun 04 00:49 8346 Jun 12 02:05 8346 Jul 01 20:23 8346 Jul 09 19:05 8346 Jul 14 02:07 8346 Jul 17 13:30	24°\delta53'26 28°\delta33'02 27°\delta31'43 21°\delta52'49 21°\delta51'21 19°\delta34'16 15°\delta35'03 12°\delta48'11 14°\delta03'02 20°\delta38'50 0°\pi 0°\delta 14°\delta28'27 22°\delta53'48 0°\Lambda	3°22'22 3°22'12 0.65526 AU 26°53'35
direct desc. node morning max el morning set max. Earth dist. asc. node superior conj	8345 May 28 10:49 8345 Jun 01 00:06 8345 Jun 05 12:41 8345 Jun 07 17:54 8345 Jun 08 17:05 8345 Jun 10 01:05 8345 Jun 21 14:23 8345 Jul 08 17:13 8345 Jul 25 19:53 8345 Jul 26 10:20 8345 Jul 31 10:05 8345 Jul 31 23:02 8345 Aug 03 08:02 8345 Aug 03 06:54 8345 Aug 09 01:13 8345 Aug 10 07:59	5° H46'50 2° H22'40 30° R8 29° 8443'22 29° 846'22 0° H 7° H45'18 0° © 1° \(\Omega \) 2° \(\Omega \) 2° \(\Omega \) 2° \(\Omega \) 44'45	0.63727 AU 27°40'56 1.32765 AU 0°23'55	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	8346 Apr 24 02:32 8346 Apr 30 17:49 8346 May 04 00:22 8346 May 09 15:16 8346 May 09 15:44 8346 May 11 12:13 8346 May 15 06:26 8346 May 21 18:55 8346 May 26 14:06 8346 Jun 04 00:49 8346 Jun 12 02:05 8346 Jul 01 20:23 8346 Jul 09 19:05 8346 Jul 14 02:07 8346 Jul 17 13:30	24°853'26 28°833'02 27°831'43 21°852'49 21°851'21 19°834'16 15°835'03 12°848'11 14°803'02 20°838'50 0°II 0°\$ 14°\$28'27 22°\$53'48 0°\$ 1°\$\alpha 41'37	3°22'22 3°22'12 0.65526 AU 26°53'35 1.34046 AU -0°04'38
direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong evening rise	8345 May 28 10:49 8345 Jun 01 00:06 8345 Jun 05 12:41 8345 Jun 07 17:54 8345 Jun 08 17:05 8345 Jun 10 01:05 8345 Jun 21 14:23 8345 Jul 25 19:53 8345 Jul 26 10:20 8345 Jul 31 10:05 8345 Jul 31 10:05 8345 Jul 31 23:02 8345 Aug 03 08:02 8345 Aug 03 06:54 8345 Aug 09 01:13 8345 Aug 10 07:59 8345 Aug 25 03:48	5° H46'50 2° H22'40 30° R8 29° 844'22 29° 846'22 0° H 7° H45'18 0° © 1° £11'37 11° £25'12 12° £33'28 17° £37'47 17° £31'42 0° M 2° M 44'45 0° £	0.63727 AU 27°40'56 1.32765 AU 0°23'55 0°23'34	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	8346 Apr 24 02:32 8346 Apr 30 17:49 8346 May 04 00:22 8346 May 09 15:16 8346 May 09 15:44 8346 May 11 12:13 8346 May 15 06:26 8346 May 21 18:55 8346 May 26 14:06 8346 Jun 04 00:49 8346 Jun 12 02:05 8346 Jul 01 20:23 8346 Jul 01 20:23 8346 Jul 14 02:07 8346 Jul 17 13:30 8346 Jul 18 09:01 8346 Jul 18 09:01	24°853'26 28°833'02 27°831'43 21°852'49 21°851'21 19°834'16 15°835'03 12°848'11 14°803'02 20°838'50 0°II 0°9 14°928'27 22°953'48 0°\$\Omega\$ 1°\$\Omega\$41'37 1°\$\Omega\$42'59	3°22'22 3°22'12 0.65526 AU 26°53'35 1.34046 AU -0°04'38
direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong evening rise evening max el	8345 May 28 10:49 8345 Jun 01 00:06 8345 Jun 05 12:41 8345 Jun 07 17:54 8345 Jun 08 17:05 8345 Jun 10 01:05 8345 Jun 21 14:23 8345 Jul 25 19:53 8345 Jul 26 10:20 8345 Jul 31 10:05 8345 Jul 31 23:02 8345 Aug 03 08:02 8345 Aug 03 06:54 8345 Aug 09 01:13 8345 Aug 10 07:59 8345 Aug 25 03:48 8345 Sep 01 23:08	5° H46'50 2° H22'40 30° R8 29° 844'22 29° 846'22 0° H 7° H45'18 0° © 0° R 1° R11'37 11° R25'12 12° R33'28 17° R37'47 17° R31'42 0° M 2° M44'45 0° Ω 9° Ω30'33	0.63727 AU 27°40'56 1.32765 AU 0°23'55 0°23'34	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	8346 Apr 24 02:32 8346 Apr 30 17:49 8346 May 04 00:22 8346 May 09 15:16 8346 May 09 15:44 8346 May 11 12:13 8346 May 15 06:26 8346 May 21 18:55 8346 May 26 14:06 8346 Jun 04 00:49 8346 Jun 12 02:05 8346 Jul 01 20:23 8346 Jul 09 19:05 8346 Jul 14 02:07 8346 Jul 17 13:30 8346 Jul 18 09:01 8346 Jul 18 09:16 8346 Jul 18 09:16 8346 Jul 18 09:16	24°853'26 28°833'02 27°831'43 21°852'49 21°851'21 19°834'16 15°835'03 12°848'11 14°803'02 20°838'50 0°II 0°9 14°928'27 22°953'48 0°\$\Omega\$ 1°\$\Omega\$41'37 1°\$\Omega\$42'59 1°\$\Omega\$14'22	3°22'22 3°22'12 0.65526 AU 26°53'35 1.34046 AU -0°04'38
direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node	8345 May 28 10:49 8345 Jun 01 00:06 8345 Jun 05 12:41 8345 Jun 07 17:54 8345 Jun 08 17:05 8345 Jun 10 01:05 8345 Jun 21 14:23 8345 Jul 08 17:13 8345 Jul 25 19:53 8345 Jul 26 10:20 8345 Jul 31 10:05 8345 Jul 31 23:02 8345 Aug 03 08:02 8345 Aug 03 06:54 8345 Aug 09 01:13 8345 Aug 10 07:59 8345 Aug 25 03:48 8345 Sep 01 23:08 8345 Sep 04 16:02	5° H46'50 2° H22'40 30° R8 29° 844'22 29° 846'22 0° H 7° H45'18 0° © 0° R 1° R11'37 11° R25'12 12° R33'28 17° R37'47 17° R31'42 0° M 2° M44'45 0° Ω 9° Ω30'33 11° Ω53'46	0.63727 AU 27°40'56 1.32765 AU 0°23'55 0°23'34	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	8346 Apr 24 02:32 8346 Apr 30 17:49 8346 May 04 00:22 8346 May 09 15:16 8346 May 09 15:44 8346 May 11 12:13 8346 May 15 06:26 8346 May 21 18:55 8346 May 26 14:06 8346 Jun 04 00:49 8346 Jun 12 02:05 8346 Jul 01 20:23 8346 Jul 09 19:05 8346 Jul 14 02:07 8346 Jul 17 13:30 8346 Jul 18 09:01 8346 Jul 18 09:16 8346 Jul 18 09:16 8346 Jul 18 03:47 8346 Jul 18 18:45	24°853'26 28°833'02 27°831'43 21°852'49 21°851'21 19°834'16 15°835'03 12°848'11 14°803'02 20°838'50 0°II 0°\$ 14°\$28'27 22°\$53'48 0°\$ 1°\$\Omega41'37 1°\$\Omega42'59 1°\$\Omega14'22 2°\$\Omega11'37	3°22'22 3°22'12 0.65526 AU 26°53'35 1.34046 AU -0°04'38
direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node retrograde	8345 May 28 10:49 8345 Jun 01 00:06 8345 Jun 05 12:41 8345 Jun 07 17:54 8345 Jun 08 17:05 8345 Jun 10 01:05 8345 Jun 21 14:23 8345 Jul 08 17:13 8345 Jul 25 19:53 8345 Jul 26 10:20 8345 Jul 31 10:05 8345 Jul 31 23:02 8345 Aug 03 08:02 8345 Aug 03 06:54 8345 Aug 09 01:13 8345 Aug 10 07:59 8345 Aug 25 03:48 8345 Sep 01 23:08 8345 Sep 04 16:02 8345 Sep 15 07:18	5° \$\Pi46'50\\ 2° \$\Pi22'40\\ 30° \$\Boldon \Boldon \Bo	0.63727 AU 27°40'56 1.32765 AU 0°23'55 0°23'34	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	8346 Apr 24 02:32 8346 Apr 30 17:49 8346 May 04 00:22 8346 May 09 15:16 8346 May 09 15:44 8346 May 11 12:13 8346 May 15 06:26 8346 May 21 18:55 8346 May 26 14:06 8346 Jun 04 00:49 8346 Jun 12 02:05 8346 Jul 01 20:23 8346 Jul 09 19:05 8346 Jul 14 02:07 8346 Jul 17 13:30 8346 Jul 18 09:16 8346 Jul 18 09:16 8346 Jul 18 09:16 8346 Jul 18 14:45 8346 Jul 18 20:00	24°853'26 28°833'02 27°831'43 21°852'49 21°851'21 19°834'16 15°835'03 12°848'11 14°803'02 20°838'50 0°II 0°9 14°928'27 22°953'48 0°Ω 1°Ω41'37 1°Ω42'59 1°Ω14'22 2°Ω11'37 2°Ω39'07	3°22'22 3°22'12 0.65526 AU 26°53'35 1.34046 AU -0°04'38
direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set	8345 May 28 10:49 8345 Jun 01 00:06 8345 Jun 05 12:41 8345 Jun 07 17:54 8345 Jun 08 17:05 8345 Jun 10 01:05 8345 Jun 21 14:23 8345 Jul 25 19:53 8345 Jul 26 10:20 8345 Jul 31 10:05 8345 Jul 31 23:02 8345 Aug 03 08:02 8345 Aug 03 06:54 8345 Aug 09 01:13 8345 Aug 10 07:59 8345 Aug 25 03:48 8345 Sep 01 23:08 8345 Sep 04 16:02 8345 Sep 15 07:18 8345 Sep 19 03:51	5° II 46'50 2° II 22'40 30° R8 29° 843'22 29° 846'22 0° II 7° II 45'18 0° © 1° \$\Omega 11'37 11° \$\Omega 25'12 12° \$\Omega 33'28 17° \$\Omega 31'42 0° ID 2° ID 44'45 0° \Omega 20' \Omega 30'33 11° \Omega 53'46 16° \Omega 10'36 15° \Omega 38'03	0.63727 AU 27°40'56 1.32765 AU 0°23'55 0°23'34 23°02'41	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	8346 Apr 24 02:32 8346 Apr 30 17:49 8346 May 04 00:22 8346 May 09 15:16 8346 May 09 15:44 8346 May 11 12:13 8346 May 15 06:26 8346 May 21 18:55 8346 May 26 14:06 8346 Jun 04 00:49 8346 Jun 12 02:05 8346 Jul 01 20:23 8346 Jul 09 19:05 8346 Jul 14 02:07 8346 Jul 17 13:30 8346 Jul 18 09:01 8346 Jul 18 09:01 8346 Jul 18 03:47 8346 Jul 18 14:45 8346 Jul 18 20:00 8346 Jul 25 18:10	24°\delta53'26 28°\delta33'02 27°\delta31'43 21°\delta52'49 21°\delta51'21 19°\delta34'16 15°\delta35'03 12°\delta48'11 14°\delta03'02 20°\delta38'50 0°\delta 0°\delta 14°\delta28'27 22°\delta53'48 0°\delta 1°\delta41'37 1°\delta42'59 1°\delta41'22 2°\delta11'37 2°\delta39'07 17°\delta16'46	3°22'22 3°22'12 0.65526 AU 26°53'35 1.34046 AU -0°04'38
direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node retrograde	8345 May 28 10:49 8345 Jun 01 00:06 8345 Jun 05 12:41 8345 Jun 07 17:54 8345 Jun 08 17:05 8345 Jun 10 01:05 8345 Jun 21 14:23 8345 Jul 08 17:13 8345 Jul 25 19:53 8345 Jul 26 10:20 8345 Jul 31 10:05 8345 Jul 31 23:02 8345 Aug 03 08:02 8345 Aug 03 06:54 8345 Aug 09 01:13 8345 Aug 10 07:59 8345 Aug 25 03:48 8345 Sep 01 23:08 8345 Sep 04 16:02 8345 Sep 15 07:18	5° II 46'50 2° II 22'40 30° R8 29° 843'22 29° 846'22 0° II 7° II 45'18 0° © 1° \$\Omega 11'37 11° \$\Omega 25'12 12° \$\Omega 33'28 17° \$\Omega 31'42 0° ID 2° ID 44'45 0° \Omega 20' \Omega 30'33 11° \Omega 53'46 16° \Omega 10'36 15° \Omega 38'03	0.63727 AU 27°40'56 1.32765 AU 0°23'55 0°23'34	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	8346 Apr 24 02:32 8346 Apr 30 17:49 8346 May 04 00:22 8346 May 09 15:16 8346 May 09 15:44 8346 May 11 12:13 8346 May 15 06:26 8346 May 21 18:55 8346 May 26 14:06 8346 Jun 04 00:49 8346 Jun 12 02:05 8346 Jul 01 20:23 8346 Jul 09 19:05 8346 Jul 14 02:07 8346 Jul 17 13:30 8346 Jul 18 09:01 8346 Jul 18 09:16 8346 Jul 18 09:16 8346 Jul 18 14:45 8346 Jul 18 20:00 8346 Jul 25 18:10 8346 Aug 01 02:14	24°853'26 28°833'02 27°831'43 21°852'49 21°851'21 19°834'16 15°835'03 12°848'11 14°803'02 20°838'50 0°II 0°9 14°928'27 22°953'48 0°Ω 1°Ω41'37 1°Ω42'59 1°Ω14'22 2°Ω11'37 2°Ω39'07	3°22'22 3°22'12 0.65526 AU 26°53'35 1.34046 AU -0°04'38
direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set	8345 May 28 10:49 8345 Jun 01 00:06 8345 Jun 05 12:41 8345 Jun 07 17:54 8345 Jun 08 17:05 8345 Jun 10 01:05 8345 Jun 21 14:23 8345 Jul 25 19:53 8345 Jul 26 10:20 8345 Jul 31 10:05 8345 Jul 31 23:02 8345 Aug 03 08:02 8345 Aug 03 06:54 8345 Aug 09 01:13 8345 Aug 10 07:59 8345 Aug 25 03:48 8345 Sep 01 23:08 8345 Sep 04 16:02 8345 Sep 15 07:18 8345 Sep 19 03:51	5° II 46'50 2° II 22'40 30° R8 29° 843'22 29° 846'22 0° II 7° II 45'18 0° © 1° \$\Omega 11'37 11° \$\Omega 25'12 12° \$\Omega 33'28 17° \$\Omega 31'42 0° ID 2° ID 44'45 0° \Omega 20' \Omega 30'33 11° \Omega 53'46 16° \Omega 10'36 15° \Omega 38'03	0.63727 AU 27°40'56 1.32765 AU 0°23'55 0°23'34 23°02'41 0.55330 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	8346 Apr 24 02:32 8346 Apr 30 17:49 8346 May 04 00:22 8346 May 09 15:16 8346 May 09 15:44 8346 May 11 12:13 8346 May 15 06:26 8346 May 21 18:55 8346 May 26 14:06 8346 Jun 04 00:49 8346 Jun 12 02:05 8346 Jul 01 20:23 8346 Jul 09 19:05 8346 Jul 14 02:07 8346 Jul 17 13:30 8346 Jul 18 09:01 8346 Jul 18 09:01 8346 Jul 18 03:47 8346 Jul 18 14:45 8346 Jul 18 20:00 8346 Jul 25 18:10	24°\delta53'26 28°\delta33'02 27°\delta31'43 21°\delta52'49 21°\delta51'21 19°\delta34'16 15°\delta35'03 12°\delta48'11 14°\delta03'02 20°\delta38'50 0°\delta 0°\delta 14°\delta28'27 22°\delta53'48 0°\delta 1°\delta41'37 1°\delta42'59 1°\delta41'22 2°\delta11'37 2°\delta39'07 17°\delta16'46	3°22'22 3°22'12 0.65526 AU 26°53'35 1.34046 AU -0°04'38 0°04'44
direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist.	8345 May 28 10:49 8345 Jun 01 00:06 8345 Jun 05 12:41 8345 Jun 07 17:54 8345 Jun 08 17:05 8345 Jun 10 01:05 8345 Jun 21 14:23 8345 Jul 25 19:53 8345 Jul 26 10:20 8345 Jul 31 10:05 8345 Jul 31 23:02 8345 Aug 03 08:02 8345 Aug 03 06:54 8345 Aug 09 01:13 8345 Aug 10 07:59 8345 Aug 25 03:48 8345 Sep 01 23:08 8345 Sep 04 16:02 8345 Sep 15 07:18 8345 Sep 19 03:51 8345 Sep 26 07:53	5° H46'50 2° H22'40 30° R8 29° 843'22 29° 846'22 0° H 7° H45'18 0° © 0° R 1° R11'37 11° R25'12 12° R33'28 17° R37'47 17° R31'42 0° M 2° M4'45 0° Ω 9° Ω30'33 11° Ω53'46 16° Ω10'36 15° Ω38'03 12° Ω21'53	0.63727 AU 27°40'56 1.32765 AU 0°23'55 0°23'34 23°02'41 0.55330 AU -5°26'26	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	8346 Apr 24 02:32 8346 Apr 30 17:49 8346 May 04 00:22 8346 May 09 15:16 8346 May 09 15:44 8346 May 11 12:13 8346 May 15 06:26 8346 May 21 18:55 8346 May 26 14:06 8346 Jun 04 00:49 8346 Jun 12 02:05 8346 Jul 01 20:23 8346 Jul 09 19:05 8346 Jul 14 02:07 8346 Jul 17 13:30 8346 Jul 18 09:01 8346 Jul 18 09:16 8346 Jul 18 09:16 8346 Jul 18 14:45 8346 Jul 18 20:00 8346 Jul 25 18:10 8346 Aug 01 02:14	24°853'26 28°833'02 27°831'43 21°852'49 21°851'21 19°834'16 15°835'03 12°848'11 14°803'02 20°838'50 0°II 0°S 14°S28'27 22°S53'48 0°A 1°A41'37 1°A42'59 1°A14'22 2°A39'07 17°A16'46 0°ID	3°22'22 3°22'12 0.65526 AU 26°53'35 1.34046 AU -0°04'38 0°04'44
direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj	8345 May 28 10:49 8345 Jun 01 00:06 8345 Jun 05 12:41 8345 Jun 07 17:54 8345 Jun 08 17:05 8345 Jun 10 01:05 8345 Jun 21 14:23 8345 Jul 25 19:53 8345 Jul 26 10:20 8345 Jul 31 10:05 8345 Jul 31 10:05 8345 Jul 31 23:02 8345 Aug 03 08:02 8345 Aug 03 06:54 8345 Aug 09 01:13 8345 Aug 10 07:59 8345 Aug 10 07:59 8345 Aug 25 03:48 8345 Sep 01 23:08 8345 Sep 12 30:51 8345 Sep 15 07:18 8345 Sep 26 07:53 8345 Sep 27 21:15	5° H46'50 2° H22'40 30° R8 29° 843'22 29° 846'22 0° H 7° H45'18 0° © 1° \(\Omega \) 2° \(\Omega \) 44'45 0° \(\Omega \) 2° \(\Omega \) 44'45 0° \(\Omega \) 2° \(\Omega \) 1° \(\Omega \) 31' \(\Omega \) 5° \(\Omega \) 38'03 11° \(\Omega \) 27'51	0.63727 AU 27°40'56 1.32765 AU 0°23'55 0°23'34 23°02'41 0.55330 AU -5°26'26	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	8346 Apr 24 02:32 8346 Apr 30 17:49 8346 May 04 00:22 8346 May 09 15:16 8346 May 09 15:44 8346 May 11 12:13 8346 May 15 06:26 8346 May 21 18:55 8346 May 26 14:06 8346 Jun 04 00:49 8346 Jun 02:05 8346 Jul 01 20:23 8346 Jul 09 19:05 8346 Jul 14 02:07 8346 Jul 17 13:30 8346 Jul 18 09:01 8346 Jul 18 09:16 8346 Jul 18 09:16 8346 Jul 18 09:16 8346 Jul 18 14:45 8346 Jul 18 20:00 8346 Jul 25 18:10 8346 Aug 01 02:14 8346 Aug 14 15:52	24°853'26 28°833'02 27°831'43 21°852'49 21°851'21 19°834'16 15°835'03 12°848'11 14°803'02 20°838'50 0°II 0°9 14°928'27 22°953'48 0°Ω 1°Ω41'37 1°Ω42'59 1°Ω14'22 2°Ω11'37 2°Ω39'07 17°Ω16'46 0°IR 19°IR51'19	3°22'22 3°22'12 0.65526 AU 26°53'35 1.34046 AU -0°04'38 0°04'44

. ,	0246 4 20 00 44	2.50 m. 4011.6			0247 4 00 00 22	50 m. 5111 7	
evening set	8346 Aug 29 09:44	25° m/40'16	100 (115	evening set	8347 Aug 09 08:22	5° m 51'17	
inferior conj	8346 Sep 07 14:57	21° m/42'27		desc. node	8347 Aug 09 10:13	5° m 50'31	
minimum elong	8346 Sep 07 05:30	21° m 55'41	4°24'23	inferior conj	8347 Aug 18 10:00	1° m 52'33	
min. Earth dist.	8346 Sep 07 16:35	21° m 40'09	0.54691 AU	minimum elong	8347 Aug 18 02:38	2°My 03'32	
morning rise	8346 Sep 16 02:09	17° m 51'09		min. Earth dist.	8347 Aug 20 03:03	0° m ,51′29	0.55011 AU
direct	8346 Sep 19 17:27	17° m 22'27			8347 Aug 21 14:50	30° Ŗ €	
morning max el	8346 Oct 02 06:01	23° Mp 18'42	22°17'33	morning rise	8347 Aug 26 19:33	27° Ω 39'48	
	8346 Oct 08 03:49	0∘ ত		direct	8347 Aug 31 04:46	26° Ω 58′04	
asc. node	8346 Oct 14 19:40	10° £ 13'05			8347 Sep 09 06:22	0° m)	
morning set	8346 Oct 23 22:00	27° £ 55'17		morning max el	8347 Sep 13 19:20	3° m 38'07	24°03'20
	8346 Oct 24 21:37	0°M		asc. node	8347 Oct 01 16:38	29° m 12'30	
					8347 Oct 02 02:40	0∘ ত	
superior conj	8346 Oct 31 00:12	13°M01'34	1°41'11	morning set	8347 Oct 08 09:42	12° - 44'55	
minimum elong	8346 Oct 31 00:29	13°M03'05	1°41'18	. 8			
max. Earth dist.	8346 Nov 03 14:02	20°M29'28	1.34254 AU	superior conj	8347 Oct 15 07:27	27° ≏ 43'48	1°39'31
evening rise	8346 Nov 08 02:13	29°M29'51	1.5 125 1710	minimum elong	8347 Oct 15 06:34	27° ₽ 39'01	1°39'33
evening rise	8346 Nov 08 08:27	0° x 7		minimum clong	8347 Oct 15 00:34 8347 Oct 16 08:35	0°M	1 37 33
JJ.				E-uth di-t			1 22041 ATT
desc. node	8346 Nov 18 11:57	18° ⊀ 15'56		max. Earth dist.	8347 Oct 17 13:23	2°M34'53	1.32941 AU
	8346 Nov 25 22:33	0°る	25001151	evening rise	8347 Oct 22 18:15	13° M 25'47	
evening max el	8346 Dec 12 23:56	21°₹17'17	27°01'51		8347 Oct 31 12:33	0° ∡ 7	
retrograde	8346 Dec 26 07:11	28° る 37'30		desc. node	8347 Nov 05 09:00	8° ∡ 12'00	
evening set	8347 Jan 01 23:32	26° る 01'28			8347 Nov 21 02:20	0°ප	
min. Earth dist.	8347 Jan 05 22:35	22°る10'40	0.65468 AU	evening max el	8347 Nov 25 12:11	4° る 36'11	27°27'22
inferior conj	8347 Jan 08 00:50	19° る 47'56	-0°55'33	retrograde	8347 Dec 09 03:39	11° る 55'04	
minimum elong	8347 Jan 08 02:27	19° る 43'19	0°54'42	evening set	8347 Dec 16 03:46	9° る 22'10	
asc. node	8347 Jan 10 19:00	16° ප් 49'51		min. Earth dist.	8347 Dec 19 22:09	6° ⋜ 03'31	0.63839 AU
morning rise	8347 Jan 14 06:36	14° る 12'53		inferior conj	8347 Dec 22 11:46	3° る 25'12	-2°02'52
direct	8347 Jan 17 00:03	13° ප 32'41		minimum elong	8347 Dec 22 15:36	3° る 15'18	2°01'08
morning max el	8347 Jan 23 10:35	16° る 57'53	18°06'28		8347 Dec 26 02:27	30°R. ✓	
C	8347 Feb 02 01:43	0° ≈		asc. node	8347 Dec 28 16:04	28° ₹ 19'24	
morning set	8347 Feb 10 20:20	14° ≈ 11'48		morning rise	8347 Dec 29 05:13	28° √ 05'01	
desc. node	8347 Feb 14 11:22	20°≈06'06		direct	8347 Dec 31 15:39	27° × 735'40	
desc. node	8347 Feb 20 14:55	0° ∀		direct	8348 Jan 06 02:23	0°る	
	0547 1 00 20 14.55	٥ ٨		morning max el	8348 Jan 07 03:51	0° ろ 58'38	17°49'35
aumorior aomi	9247 Eab 25 14:20	7° ¥ 54'16	1014142	•	8348 Jan 23 19:01	0 03838 26° る 16'43	17 49 33
superior conj	8347 Feb 25 14:29			morning set		20 ⊘ 1043	
minimum elong	8347 Feb 25 06:04	7° \(\) 21'01			8348 Jan 25 23:17		
max. Earth dist.	8347 Feb 28 09:02		1.45424 AU	desc. node	8348 Feb 01 08:18	10° ≈ 44'30	
	8347 Mar 11 18:18	0° Υ					
evening rise	8347 Mar 13 18:39	3° Y 07'19		superior conj	8348 Feb 05 13:41	17° ≈ 41'24	
greatest brilliancy	8347 Mar 26 14:07	22° Y 46′50	-0.7m	minimum elong	8348 Feb 05 10:19	17° ≈ 27'42	
	8347 Mar 31 13:13	9° 8		max. Earth dist.	8348 Feb 11 04:00	26° ≈ 41'17	1.44678 AU
evening max el	8347 Apr 07 09:59	8° 8 30'46	19°30'04		8348 Feb 13 06:15	0° ∀	
asc. node	8347 Apr 08 17:52	9° 8 46'34		evening rise	8348 Feb 21 06:21	12° ∺ 26′18	
retrograde	8347 Apr 14 15:01	12° 8 37'07					
evening set	8347 Apr 18 05:38	11° 8 21'01			8348 Mar 03 21:35	0 ° Υ	
inferior conj	1	11 02101		evening max el	8348 Mar 03 21:35 8348 Mar 20 12:10	0° Υ' 22° Υ 09'40	20°30'26
	8347 Apr 23 15:35	5° 8 27'05	3°20'48	evening max el asc. node			20°30'26
minimum elong	-		3°20'48 3°20'39	•	8348 Mar 20 12:10	22° Y ′09'40	20°30′26
minimum elong min. Earth dist.	8347 Apr 23 15:35	5° 8 27'05		asc. node	8348 Mar 20 12:10 8348 Mar 25 14:59	22° Y 09'40 26° Y 08'01	20°30'26
•	8347 Apr 23 15:35 8347 Apr 23 14:50	5° と 27'05 5° と 29'31	3°20'39	asc. node retrograde	8348 Mar 20 12:10 8348 Mar 25 14:59 8348 Mar 28 13:32 8348 Apr 01 13:15	22°\bar{0}9'40 26°\bar{0}8'01 26°\bar{5}1'55	20°30'26 3°07'04
min. Earth dist.	8347 Apr 23 15:35 8347 Apr 23 14:50 8347 Apr 24 21:27 8347 Apr 28 02:32	5° 8 27'05 5° 8 29'31 3° 8 48'48	3°20'39	asc. node retrograde evening set inferior conj	8348 Mar 20 12:10 8348 Mar 25 14:59 8348 Mar 28 13:32 8348 Apr 01 13:15 8348 Apr 06 20:52	22°Y09'40 26°Y08'01 26°Y51'55 25°Y20'34 19°Y13'26	3°07'04
min. Earth dist.	8347 Apr 23 15:35 8347 Apr 23 14:50 8347 Apr 24 21:27 8347 Apr 28 02:32 8347 Apr 28 23:42	5° 8 27'05 5° 8 29'31 3° 8 48'48 30° _R Y 29° Y 09'07	3°20'39	asc. node retrograde evening set inferior conj minimum elong	8348 Mar 20 12:10 8348 Mar 25 14:59 8348 Mar 28 13:32 8348 Apr 01 13:15 8348 Apr 06 20:52 8348 Apr 06 19:13	22°Y09'40 26°Y08'01 26°Y51'55 25°Y20'34 19°Y13'26 19°Y19'04	3°07'04 3°06'46
min. Earth dist. morning rise direct	8347 Apr 23 15:35 8347 Apr 23 14:50 8347 Apr 24 21:27 8347 Apr 28 02:32 8347 Apr 28 23:42 8347 May 05 02:18	5° 8 27'05 5° 8 29'31 3° 8 48'48 30° R Υ 29° Y 09'07 26° Y 26'28	3°20'39	asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	8348 Mar 20 12:10 8348 Mar 25 14:59 8348 Mar 28 13:32 8348 Apr 01 13:15 8348 Apr 06 20:52 8348 Apr 06 19:13 8348 Apr 07 12:39	22°Y09'40 26°Y08'01 26°Y51'55 25°Y20'34 19°Y13'26 19°Y19'04 18°Y19'21	3°07'04
min. Earth dist.	8347 Apr 23 15:35 8347 Apr 23 14:50 8347 Apr 24 21:27 8347 Apr 28 02:32 8347 Apr 28 23:42 8347 May 05 02:18 8347 May 13 11:06	5° 8 27'05 5° 8 29'31 3° 8 48'48 30° 8 Υ 29° Υ 09'07 26° Υ 26'28 0° 8 11'40	3°20'39	asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8348 Mar 20 12:10 8348 Mar 25 14:59 8348 Mar 28 13:32 8348 Apr 01 13:15 8348 Apr 06 20:52 8348 Apr 06 19:13 8348 Apr 07 12:39 8348 Apr 12 00:59	22°Y09'40 26°Y08'01 26°Y51'55 25°Y20'34 19°Y13'26 19°Y19'04 18°Y19'21 12°Y57'37	3°07'04 3°06'46
min. Earth dist. morning rise direct desc. node	8347 Apr 23 15:35 8347 Apr 23 14:50 8347 Apr 24 21:27 8347 Apr 28 02:32 8347 Apr 28 23:42 8347 May 05 02:18 8347 May 13 11:06 8347 May 13 05:13	5°827'05 5°829'31 3°848'48 30°8γ 29°Υ09'07 26°Υ26'28 0°811'40 0°8	3°20'39 0.66915 AU	asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8348 Mar 20 12:10 8348 Mar 25 14:59 8348 Mar 28 13:32 8348 Apr 01 13:15 8348 Apr 06 20:52 8348 Apr 06 19:13 8348 Apr 07 12:39 8348 Apr 12 00:59 8348 Apr 17 14:52	22°Y09'40 26°Y08'01 26°Y51'55 25°Y20'34 19°Y13'26 19°Y19'04 18°Y19'21 12°Y57'37 10°Y28'37	3°07'04 3°06'46 0.67850 AU
min. Earth dist. morning rise direct	8347 Apr 23 15:35 8347 Apr 23 14:50 8347 Apr 24 21:27 8347 Apr 28 02:32 8347 Apr 28 23:42 8347 May 05 02:18 8347 May 13 11:06 8347 May 13 05:13 8347 May 17 10:41	5°827'05 5°829'31 3°848'48 30°RY 29°Y09'07 26°Y26'28 0°811'40 0°8 3°850'01	3°20'39	asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	8348 Mar 20 12:10 8348 Mar 25 14:59 8348 Mar 28 13:32 8348 Apr 01 13:15 8348 Apr 06 20:52 8348 Apr 06 19:13 8348 Apr 07 12:39 8348 Apr 12 00:59 8348 Apr 17 14:52 8348 Apr 28 19:45	22°Y09'40 26°Y08'01 26°Y51'55 25°Y20'34 19°Y13'26 19°Y19'04 18°Y19'21 12°Y57'37 10°Y28'37 17°Y10'41	3°07'04 3°06'46
min. Earth dist. morning rise direct desc. node morning max el	8347 Apr 23 15:35 8347 Apr 23 14:50 8347 Apr 24 21:27 8347 Apr 28 02:32 8347 Apr 28 23:42 8347 May 05 02:18 8347 May 13 11:06 8347 May 13 05:13 8347 May 17 10:41 8347 Jun 06 09:41	5°\dagger*27'05 5°\dagger*29'31 3°\dagger*48'48 30°\dagger*7 29°\dagger*709'07 26°\dagger*26'28 0°\dagger*311'40 0°\dagger*38'50'01 0°\dagger*1	3°20'39 0.66915 AU	asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8348 Mar 20 12:10 8348 Mar 25 14:59 8348 Mar 28 13:32 8348 Apr 01 13:15 8348 Apr 06 20:52 8348 Apr 06 19:13 8348 Apr 07 12:39 8348 Apr 12 00:59 8348 Apr 17 14:52 8348 Apr 28 19:45 8348 Apr 29 08:04	22°Y09'40 26°Y08'01 26°Y51'55 25°Y20'34 19°Y13'26 19°Y19'04 18°Y19'21 12°Y57'37 10°Y28'37 17°Y10'41 17°Y42'13	3°07'04 3°06'46 0.67850 AU
min. Earth dist. morning rise direct desc. node	8347 Apr 23 15:35 8347 Apr 23 14:50 8347 Apr 24 21:27 8347 Apr 28 02:32 8347 Apr 28 23:42 8347 May 05 02:18 8347 May 13 11:06 8347 May 13 05:13 8347 May 17 10:41 8347 Jun 06 09:41 8347 Jun 22 13:37	5°827'05 5°829'31 3°848'48 30°87' 29°7'09'07 26°7'26'28 0°811'40 0°8 3°850'01 0°11 27°1102'17	3°20'39 0.66915 AU	asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	8348 Mar 20 12:10 8348 Mar 25 14:59 8348 Mar 28 13:32 8348 Apr 01 13:15 8348 Apr 06 20:52 8348 Apr 06 19:13 8348 Apr 07 12:39 8348 Apr 12 00:59 8348 Apr 17 14:52 8348 Apr 28 19:45 8348 Apr 29 08:04 8348 May 09 11:47	22°Y09'40 26°Y08'01 26°Y51'55 25°Y20'34 19°Y13'26 19°Y19'04 18°Y19'21 12°Y57'37 10°Y28'37 17°Y10'41 17°Y42'13 0°\S	3°07'04 3°06'46 0.67850 AU
min. Earth dist. morning rise direct desc. node morning max el morning set	8347 Apr 23 15:35 8347 Apr 23 14:50 8347 Apr 24 21:27 8347 Apr 28 02:32 8347 Apr 28 23:42 8347 May 05 02:18 8347 May 13 11:06 8347 May 13 05:13 8347 May 17 10:41 8347 Jun 06 09:41 8347 Jun 22 13:37 8347 Jun 24 04:11	5°827'05 5°829'31 3°848'48 30°87' 29°7'09'07 26°7'26'28 0°811'40 0°8 3°850'01 0°I 27°I 02'17 0°S	3°20'39 0.66915 AU 25°42'08	asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	8348 Mar 20 12:10 8348 Mar 25 14:59 8348 Mar 28 13:32 8348 Apr 01 13:15 8348 Apr 06 20:52 8348 Apr 06 19:13 8348 Apr 07 12:39 8348 Apr 12 00:59 8348 Apr 17 14:52 8348 Apr 28 19:45 8348 Apr 29 08:04 8348 May 09 11:47 8348 May 29 10:13	22°Y09'40 26°Y08'01 26°Y51'55 25°Y20'34 19°Y13'26 19°Y19'04 18°Y19'21 12°Y57'37 10°Y28'37 17°Y10'41 17°Y42'13 0°B 0°II	3°07'04 3°06'46 0.67850 AU
min. Earth dist. morning rise direct desc. node morning max el	8347 Apr 23 15:35 8347 Apr 23 14:50 8347 Apr 24 21:27 8347 Apr 28 02:32 8347 Apr 28 23:42 8347 May 05 02:18 8347 May 13 11:06 8347 May 13 05:13 8347 May 17 10:41 8347 Jun 06 09:41 8347 Jun 22 13:37	5°827'05 5°829'31 3°848'48 30°87' 29°7'09'07 26°7'26'28 0°811'40 0°8 3°850'01 0°11 27°1102'17	3°20'39 0.66915 AU	asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	8348 Mar 20 12:10 8348 Mar 25 14:59 8348 Mar 28 13:32 8348 Apr 01 13:15 8348 Apr 06 20:52 8348 Apr 06 19:13 8348 Apr 07 12:39 8348 Apr 12 00:59 8348 Apr 17 14:52 8348 Apr 28 19:45 8348 Apr 29 08:04 8348 May 09 11:47 8348 May 29 10:13 8348 Jun 03 12:56	22°Y09'40 26°Y08'01 26°Y51'55 25°Y20'34 19°Y13'26 19°Y19'04 18°Y19'21 12°Y57'37 10°Y28'37 17°Y10'41 17°Y42'13 0°B 0°II 8°I39'55	3°07'04 3°06'46 0.67850 AU 24°16'35
min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	8347 Apr 23 15:35 8347 Apr 23 14:50 8347 Apr 24 21:27 8347 Apr 28 02:32 8347 Apr 28 23:42 8347 May 05 02:18 8347 May 13 11:06 8347 May 13 05:13 8347 May 17 10:41 8347 Jun 06 09:41 8347 Jun 22 13:37 8347 Jun 24 04:11 8347 Jun 26 07:12	5°827'05 5°829'31 3°848'48 30°87' 29°7'09'07 26°7'26'28 0°811'40 0°8 3°850'01 0°11 27°1102'17 0°55 3°559'56	3°20'39 0.66915 AU 25°42'08 1.35799 AU	asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	8348 Mar 20 12:10 8348 Mar 25 14:59 8348 Mar 28 13:32 8348 Apr 01 13:15 8348 Apr 06 20:52 8348 Apr 06 19:13 8348 Apr 07 12:39 8348 Apr 12 00:59 8348 Apr 17 14:52 8348 Apr 28 19:45 8348 Apr 29 08:04 8348 May 09 11:47 8348 May 29 10:13	22°Y09'40 26°Y08'01 26°Y51'55 25°Y20'34 19°Y13'26 19°Y19'04 18°Y19'21 12°Y57'37 10°Y28'37 17°Y10'41 17°Y42'13 0°B 0°II	3°07'04 3°06'46 0.67850 AU
min. Earth dist. morning rise direct desc. node morning max el morning set	8347 Apr 23 15:35 8347 Apr 23 14:50 8347 Apr 24 21:27 8347 Apr 28 02:32 8347 Apr 28 23:42 8347 May 05 02:18 8347 May 13 11:06 8347 May 13 05:13 8347 May 17 10:41 8347 Jun 06 09:41 8347 Jun 22 13:37 8347 Jun 24 04:11 8347 Jun 26 07:12	5°827'05 5°829'31 3°848'48 30°87' 29°7'09'07 26°7'26'28 0°811'40 0°8 3°850'01 0°I 27°I 02'17 0°S	3°20'39 0.66915 AU 25°42'08 1.35799 AU	asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	8348 Mar 20 12:10 8348 Mar 25 14:59 8348 Mar 28 13:32 8348 Apr 01 13:15 8348 Apr 06 20:52 8348 Apr 06 19:13 8348 Apr 07 12:39 8348 Apr 12 00:59 8348 Apr 17 14:52 8348 Apr 28 19:45 8348 Apr 29 08:04 8348 May 09 11:47 8348 May 29 10:13 8348 Jun 03 12:56 8348 Jun 07 04:57	22°Y09'40 26°Y08'01 26°Y51'55 25°Y20'34 19°Y13'26 19°Y19'04 18°Y19'21 12°Y57'37 10°Y28'37 17°Y10'41 17°Y42'13 0°B 0°II 8°II39'55 15°II08'47	3°07'04 3°06'46 0.67850 AU 24°16'35
min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	8347 Apr 23 15:35 8347 Apr 23 14:50 8347 Apr 24 21:27 8347 Apr 28 02:32 8347 Apr 28 23:42 8347 May 05 02:18 8347 May 13 11:06 8347 May 13 05:13 8347 May 17 10:41 8347 Jun 06 09:41 8347 Jun 22 13:37 8347 Jun 24 04:11 8347 Jun 26 07:12	5°827'05 5°829'31 3°848'48 30°87' 29°7'09'07 26°7'26'28 0°811'40 0°8 3°850'01 0°11 27°1102'17 0°55 3°559'56	3°20'39 0.66915 AU 25°42'08 1.35799 AU -0°35'42	asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	8348 Mar 20 12:10 8348 Mar 25 14:59 8348 Mar 28 13:32 8348 Apr 01 13:15 8348 Apr 06 20:52 8348 Apr 06 19:13 8348 Apr 07 12:39 8348 Apr 12 00:59 8348 Apr 17 14:52 8348 Apr 28 19:45 8348 Apr 29 08:04 8348 May 09 11:47 8348 May 29 10:13 8348 Jun 03 12:56	22°Y09'40 26°Y08'01 26°Y51'55 25°Y20'34 19°Y13'26 19°Y19'04 18°Y19'21 12°Y57'37 10°Y28'37 17°Y10'41 17°Y42'13 0°B 0°II 8°I39'55	3°07'04 3°06'46 0.67850 AU 24°16'35
min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj	8347 Apr 23 15:35 8347 Apr 23 14:50 8347 Apr 24 21:27 8347 Apr 28 02:32 8347 Apr 28 23:42 8347 May 05 02:18 8347 May 13 11:06 8347 May 13 05:13 8347 May 17 10:41 8347 Jun 06 09:41 8347 Jun 22 13:37 8347 Jun 24 04:11 8347 Jun 26 07:12	5°827'05 5°829'31 3°848'48 30°87' 29°7'09'07 26°7'26'28 0°811'40 0°8 3°850'01 0°11 27°1102'17 0°3 3°3559'56	3°20'39 0.66915 AU 25°42'08 1.35799 AU -0°35'42	asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	8348 Mar 20 12:10 8348 Mar 25 14:59 8348 Mar 28 13:32 8348 Apr 01 13:15 8348 Apr 06 20:52 8348 Apr 06 19:13 8348 Apr 07 12:39 8348 Apr 12 00:59 8348 Apr 17 14:52 8348 Apr 28 19:45 8348 Apr 29 08:04 8348 May 09 11:47 8348 May 29 10:13 8348 Jun 03 12:56 8348 Jun 07 04:57	22°Y09'40 26°Y08'01 26°Y51'55 25°Y20'34 19°Y13'26 19°Y19'04 18°Y19'21 12°Y57'37 10°Y28'37 17°Y10'41 17°Y42'13 0°B 0°II 8°II39'55 15°II08'47	3°07'04 3°06'46 0.67850 AU 24°16'35 1.37907 AU -1°07'35
min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	8347 Apr 23 15:35 8347 Apr 23 14:50 8347 Apr 24 21:27 8347 Apr 28 02:32 8347 Apr 28 23:42 8347 May 05 02:18 8347 May 13 11:06 8347 May 13 05:13 8347 May 17 10:41 8347 Jun 06 09:41 8347 Jun 22 13:37 8347 Jun 24 04:11 8347 Jun 26 07:12 8347 Jul 02 01:44 8347 Jul 02 01:44	5°827'05 5°829'31 3°848'48 30°8° 29°9'09'07 26°9'26'28 0°811'40 0°8 3°850'01 0°11 27°1102'17 0°5 3°559'56 15°518'00 15°528'40	3°20'39 0.66915 AU 25°42'08 1.35799 AU -0°35'42	asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	8348 Mar 20 12:10 8348 Mar 25 14:59 8348 Mar 28 13:32 8348 Apr 01 13:15 8348 Apr 06 20:52 8348 Apr 06 19:13 8348 Apr 07 12:39 8348 Apr 12 00:59 8348 Apr 17 14:52 8348 Apr 28 19:45 8348 Apr 29 08:04 8348 May 09 11:47 8348 May 29 10:13 8348 Jun 03 12:56 8348 Jun 07 04:57	22°Y09'40 26°Y08'01 26°Y51'55 25°Y20'34 19°Y13'26 19°Y19'04 18°Y19'21 12°Y57'37 10°Y28'37 17°Y10'41 17°Y42'13 0°8 0°II 8°II39'55 15°II08'47	3°07'04 3°06'46 0.67850 AU 24°16'35 1.37907 AU -1°07'35
min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	8347 Apr 23 15:35 8347 Apr 23 14:50 8347 Apr 24 21:27 8347 Apr 28 02:32 8347 Apr 28 23:42 8347 May 05 02:18 8347 May 13 11:06 8347 May 13 05:13 8347 May 17 10:41 8347 Jun 06 09:41 8347 Jun 22 13:37 8347 Jun 24 04:11 8347 Jun 26 07:12 8347 Jul 02 01:44 8347 Jul 02 03:51 8347 Jul 05 16:59	5°827'05 5°829'31 3°848'48 30°8° 29°9'09'07 26°9'26'28 0°811'40 0°8 3°850'01 0°11 27°1102'17 0°5 3°559'56 15°528'40 22°541'29	3°20'39 0.66915 AU 25°42'08 1.35799 AU -0°35'42	asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	8348 Mar 20 12:10 8348 Mar 25 14:59 8348 Mar 28 13:32 8348 Apr 01 13:15 8348 Apr 06 20:52 8348 Apr 06 19:13 8348 Apr 07 12:39 8348 Apr 12 00:59 8348 Apr 17 14:52 8348 Apr 28 19:45 8348 Apr 29 08:04 8348 May 09 11:47 8348 May 29 10:13 8348 Jun 03 12:56 8348 Jun 07 04:57 8348 Jun 14 06:52 8348 Jun 14 11:03	22°Y09'40 26°Y08'01 26°Y51'55 25°Y20'34 19°Y13'26 19°Y19'04 18°Y19'21 12°Y57'37 10°Y28'37 17°Y10'41 17°Y42'13 0°B 0°II 8°II39'55 15°II08'47 28°II18'31 28°II38'36	3°07'04 3°06'46 0.67850 AU 24°16'35 1.37907 AU -1°07'35
min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	8347 Apr 23 15:35 8347 Apr 23 14:50 8347 Apr 24 21:27 8347 Apr 28 02:32 8347 Apr 28 23:42 8347 May 05 02:18 8347 May 13 11:06 8347 May 13 05:13 8347 May 17 10:41 8347 Jun 06 09:41 8347 Jun 22 13:37 8347 Jun 24 04:11 8347 Jun 26 07:12 8347 Jul 02 01:44 8347 Jul 02 03:51 8347 Jul 05 16:59 8347 Jul 09 06:18	5°827'05 5°829'31 3°848'48 30°8° 29°9'09'07 26°9'26'28 0°811'40 0°8 3°850'01 0°11 27°1102'17 0°9 3°959'56 15°928'40 22°941'29 0°\$\alpha\$	3°20'39 0.66915 AU 25°42'08 1.35799 AU -0°35'42	asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	8348 Mar 20 12:10 8348 Mar 25 14:59 8348 Mar 28 13:32 8348 Apr 01 13:15 8348 Apr 06 20:52 8348 Apr 06 19:13 8348 Apr 07 12:39 8348 Apr 12 00:59 8348 Apr 17 14:52 8348 Apr 28 19:45 8348 Apr 29 08:04 8348 May 09 11:47 8348 May 29 10:13 8348 Jun 03 12:56 8348 Jun 07 04:57 8348 Jun 14 06:52 8348 Jun 14 11:03 8348 Jun 15 03:57	22°Y09'40 26°Y08'01 26°Y51'55 25°Y20'34 19°Y13'26 19°Y19'04 18°Y19'21 12°Y57'37 10°Y28'37 17°Y10'41 17°Y42'13 0°B 0°II 8°II39'55 15°II08'47 28°II18'31 28°II38'36 0°G	3°07'04 3°06'46 0.67850 AU 24°16'35 1.37907 AU -1°07'35
min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise	8347 Apr 23 15:35 8347 Apr 23 14:50 8347 Apr 24 21:27 8347 Apr 28 02:32 8347 Apr 28 23:42 8347 May 05 02:18 8347 May 13 11:06 8347 May 13 05:13 8347 May 17 10:41 8347 Jun 06 09:41 8347 Jun 22 13:37 8347 Jun 24 04:11 8347 Jun 26 07:12 8347 Jul 02 01:44 8347 Jul 02 03:51 8347 Jul 02 03:51 8347 Jul 09 06:18 8347 Jul 09 06:18	5°827'05 5°829'31 3°848'48 30°8° 29°9'09'07 26°9'26'28 0°811'40 0°8 3°850'01 0°11 27°1102'17 0°9 3°959'56 15°928'40 22°941'29 0°8 1°835'14	3°20'39 0.66915 AU 25°42'08 1.35799 AU -0°35'42 0°35'28	asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong asc. node	8348 Mar 20 12:10 8348 Mar 25 14:59 8348 Mar 28 13:32 8348 Apr 01 13:15 8348 Apr 06 20:52 8348 Apr 06 19:13 8348 Apr 07 12:39 8348 Apr 12 00:59 8348 Apr 17 14:52 8348 Apr 28 19:45 8348 Apr 29 08:04 8348 May 09 11:47 8348 May 29 10:13 8348 Jun 03 12:56 8348 Jun 07 04:57 8348 Jun 14 06:52 8348 Jun 14 11:03 8348 Jun 15 03:57 8348 Jun 21 14:01 8348 Jun 23 01:39	22°Y09'40 26°Y08'01 26°Y51'55 25°Y20'34 19°Y13'26 19°Y19'04 18°Y19'21 12°Y57'37 10°Y28'37 17°Y10'41 17°Y42'13 0°B 0°II 8°II39'55 15°I08'47 28°II18'31 28°II38'36 0°G 12°G36'57 15°G33'27	3°07'04 3°06'46 0.67850 AU 24°16'35 1.37907 AU -1°07'35
min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	8347 Apr 23 15:35 8347 Apr 23 14:50 8347 Apr 24 21:27 8347 Apr 28 02:32 8347 Apr 28 23:42 8347 May 05 02:18 8347 May 13 11:06 8347 May 13 05:13 8347 May 17 10:41 8347 Jun 06 09:41 8347 Jun 22 13:37 8347 Jun 24 04:11 8347 Jun 26 07:12 8347 Jul 02 01:44 8347 Jul 02 03:51 8347 Jul 02 03:51 8347 Jul 05 16:59 8347 Jul 09 06:18 8347 Jul 10 00:54 8347 Jul 27 02:08	5°827'05 5°829'31 3°848'48 30°RY 29°Y09'07 26°Y26'28 0°811'40 0°8 3°859'01 0°II 27°II02'17 0°9 3°959'56 15°928'40 22°941'29 0°1 1°1335'14 0°10	3°20'39 0.66915 AU 25°42'08 1.35799 AU -0°35'42	asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong asc. node	8348 Mar 20 12:10 8348 Mar 25 14:59 8348 Mar 28 13:32 8348 Apr 01 13:15 8348 Apr 06 20:52 8348 Apr 06 19:13 8348 Apr 07 12:39 8348 Apr 12 00:59 8348 Apr 17 14:52 8348 Apr 28 19:45 8348 Apr 29 08:04 8348 May 09 11:47 8348 May 29 10:13 8348 Jun 03 12:56 8348 Jun 07 04:57 8348 Jun 14 06:52 8348 Jun 14 11:03 8348 Jun 15 03:57 8348 Jun 21 14:01	22°Y09'40 26°Y08'01 26°Y51'55 25°Y20'34 19°Y13'26 19°Y19'04 18°Y19'21 12°Y57'37 10°Y28'37 17°Y10'41 17°Y42'13 0°B 0°II 8°II39'55 15°II08'47 28°II18'31 28°II38'36 0°G 12°G36'57	3°07'04 3°06'46 0.67850 AU 24°16'35 1.37907 AU -1°07'35 1°07'04

retrograde	8348 Jul 18 12:28	16° Ω 53'54		evening max el	8349 Jun 22 18:52	24° © 51'21	18°27'03
evening set	8348 Jul 20 10:20	16° Ω 42'34		retrograde	8349 Jun 30 09:22	28°939'07	10 27 03
desc. node	8348 Jul 26 07:18	14° Ω 09'26		evening set	8349 Jul 02 13:23	28°521'30	
inferior conj	8348 Jul 28 19:58	12° Ω 29'42	-0°46'23	inferior conj	8349 Jul 10 03:12	23°549'03	0°53'46
minimum elong	8348 Jul 28 17:57	12°Ω33'07		minimum elong	8349 Jul 10 05:02	23°545'22	0°52'57
min. Earth dist.	8348 Jul 31 16:51	10°Ω32'51	0.56232 AU	desc. node	8349 Jul 13 04:24	21°S23'12	0 3237
morning rise	8348 Aug 05 22:33	7° Ω 41'36	0.30232 110	min. Earth dist.	8349 Jul 13 11:58	21°508'43	0.58113 AU
direct	8348 Aug 11 03:43	6° Ω 38'21		morning rise	8349 Jul 17 17:16	18° © 24'44	0.30113710
morning max el	8348 Aug 25 08:20	13° Ω 53'31	25°43'51	direct	8349 Jul 23 17:02	16° © 51'49	
morning max or	8348 Sep 07 01:47	0° m)	20 13 31	morning max el	8349 Aug 07 02:28	24° © 32'34	27°02'25
asc. node	8348 Sep 17 13:36	18° m) 37'45		morning max er	8349 Aug 12 02:28	0°Ω	27 02 23
morning set	8348 Sep 21 21:03	27° m/31'38			8349 Aug 31 05:52	0° m)	
morning set	8348 Sep 23 00:44	0° ರ		asc. node	8349 Sep 04 10:34	8° Mp 21'06	
	оз то вер 23 об. 11	٠ <u> </u>		morning set	8349 Sep 06 06:21	12° Mp 09'40	
superior conj	8348 Sep 28 17:59	12° £ 33'27	1°31'58	morning set	0547 Бер 00 00.21	12 11/0740	
minimum elong	8348 Sep 28 16:15	12° ⊆ 23'53	1°31'50	superior conj	8349 Sep 13 05:47	27° m 23'33	1°19'03
max. Earth dist.	8348 Sep 29 19:39	14° ⊆ 54'53	1.32081 AU	minimum elong	8349 Sep 13 03:35	27° mg 11'23	1°18'44
evening rise	8348 Oct 05 18:47	27° £ 44′08	1.52081 AU	max. Earth dist.	8349 Sep 13 05:35	27° m) 21'33	1.31675 AU
evening rise	8348 Oct 05 18.47 8348 Oct 06 21:06	27 == 44 08 0° M		max. Earth dist.	8349 Sep 14 09:58	0° <u>0</u> 17 الپار	1.516/5 AU
JJ.					•		
desc. node	8348 Oct 22 06:05	27°M38'39		evening rise	8349 Sep 20 01:06	12° Ω 16'34	
	8348 Oct 23 19:23	0° ⋌ ¹	27022120		8349 Sep 29 00:24	0°M	
evening max el	8348 Nov 06 21:06	17° 🗷 22'02	27°22'20	desc. node	8349 Oct 09 03:11	16°M23'23	0.00.40400
retrograde	8348 Nov 20 16:47	24° ∡ ³35'44		evening max el	8349 Oct 19 23:49	29°M21'59	26°43'33
evening set	8348 Nov 27 19:06	22° ∡ 15'07		_	8349 Oct 20 16:13	0° ∡	
min. Earth dist.	8348 Dec 01 11:22	19° ∡ 123′16	0.61934 AU	retrograde	8349 Nov 02 21:43	6° ∡ ³30′17	
inferior conj	8348 Dec 04 10:50	16° ≯ ′40′14		evening set	8349 Nov 09 17:21	4° ≯ 32'50	
minimum elong	8348 Dec 04 16:55	16° ≯ ¹26'20	3°10'41	min. Earth dist.	8349 Nov 13 13:46	1° ≯ 56'37	0.59854 AU
morning rise	8348 Dec 11 16:55	11° ≯ ³38'26			8349 Nov 16 00:24	30°RM	
direct	8348 Dec 13 22:58	11° √ 16′21		inferior conj	8349 Nov 16 18:32	29°M23'25	-4°20'06
asc. node	8348 Dec 14 13:07	11° ∡ 17'54		minimum elong	8349 Nov 17 01:51	29° ™ 08'46	4°18'00
morning max el	8348 Dec 20 20:20	14° ∡ ¹45'58	17°50'40	morning rise	8349 Nov 24 12:46	24°M43'11	
	8348 Dec 31 08:33	0°ರ		direct	8349 Nov 26 17:51	24°M25'08	
morning set	8349 Jan 05 14:58	9° る 22'12		asc. node	8349 Dec 01 10:08	25° ™ 50′29	
				morning max el	8349 Dec 04 08:35	28° ™ 10′29	18°10'58
superior conj	8349 Jan 16 14:11	28° පි 42'05	0°12'01		8349 Dec 06 01:29	0° ∡ 7	
minimum elong	8349 Jan 16 15:17	28° ♂ 46'49	0°12'00	morning set	8349 Dec 20 02:04	23° 渘 ¹09'42	
behind sun begin	8349 Jan 16 09:31	28° පි 22'10			8349 Dec 23 17:17	8°0	
behind sun end	8349 Jan 16 21:03	29° る 11'26					
	8349 Jan 17 08:28	0° ≈		superior conj	8349 Dec 29 15:00	10° る 52'18	0°47'03
desc. node	8349 Jan 18 05:17	1° ≈ 28'07		minimum elong	8349 Dec 29 18:10	11° පි 06'34	0°46'46
max. Earth dist.	8349 Jan 23 19:47	10° ≈ 45'30	1.43284 AU	desc. node	8350 Jan 05 02:17	22° る 13'19	
evening rise	8349 Jan 30 21:39	22°≈02'04		max. Earth dist.	8350 Jan 06 06:20	24° る 12'20	1.41401 AU
C	8349 Feb 05 01:48	0° ₩			8350 Jan 09 17:53	0° ≈	
	8349 Feb 26 06:11	0° Y		evening rise	8350 Jan 11 05:15	2° ≈ 24'12	
evening max el	8349 Mar 03 08:49	5° Ƴ 49'32	21°42'20	Ü	8350 Jan 29 10:52	0°) €	
retrograde	8349 Mar 12 11:27	11° Y 13'06		evening max el	8350 Feb 14 01:02	19°) 31'49	23°01'09
asc. node	8349 Mar 12 12:06	11° Υ 13'06		retrograde	8350 Feb 24 07:10	25°) 36'30	
evening set	8349 Mar 16 21:23	9° Y ′26′27		asc. node	8350 Feb 27 09:11	24°) (49'08	
inferior conj	8349 Mar 22 04:51	3°Υ08'33	2°43'02	evening set	8350 Mar 01 04:28	23°) (35'03	
minimum elong	8349 Mar 22 02:42	3°Υ16'03	2°42'32	min. Earth dist.	8350 Mar 06 04:29	17° ¥ 41'07	0.68406 AU
min. Earth dist.	8349 Mar 22 07:43	2° Υ 58'32	0.68341 AU	inferior conj	8350 Mar 06 13:34	17°) (11°)	2°09'51
mm. Latin dist.	8349 Mar 24 12:35	30° R ₩	0.00541710	minimum elong	8350 Mar 06 11:20	17°) 17'28	2°09'12
morning rise	8349 Mar 27 07:51	26° ¥ 56′20		morning rise	8350 Mar 11 18:06	11° X 1728	2 07 12
direct	8349 Apr 01 07:47	24° H 46'49		direct	8350 Mar 16 04:05	9°) 14'53	
direct	8349 Apr 10 14:16	24 Λ 4049			8350 Mar 24 20:39	14°) 16'44	21°21'39
				morning max el	8330 Mai 24 20.39		21 21 39
morning max el	-		22946150	daga mada	9250 Ame 02 01:50	250 1 25104	
desc. node	8349 Apr 11 05:59	0° Ƴ 38'49	22°46'50	desc. node	8350 Apr 03 01:59	25°) €25'04	
	8349 Apr 11 05:59 8349 Apr 16 05:02	0° Ƴ 38'49 6° Ƴ 12'04	22°46'50		8350 Apr 06 09:42	0 ° γ	
	8349 Apr 11 05:59 8349 Apr 16 05:02 8349 May 03 08:35	0° Ƴ 38'49 6° Ƴ 12'04 0° ႘	22°46'50	desc. node morning set	8350 Apr 06 09:42 8350 Apr 25 06:36	0° Υ 28° Υ 18'46	
morning set	8349 Apr 11 05:59 8349 Apr 16 05:02 8349 May 03 08:35 8349 May 15 11:29	0° Y 38'49 6° Y 12'04 0° ႘ 19° ႘ 06'54		morning set	8350 Apr 06 09:42 8350 Apr 25 06:36 8350 Apr 26 08:10	0°Υ 28°Υ18'46 0°႘	1.40070 : **
morning set max. Earth dist.	8349 Apr 11 05:59 8349 Apr 16 05:02 8349 May 03 08:35 8349 May 15 11:29 8349 May 20 01:49	0°Y38'49 6°Y12'04 0°B 19°B06'54 26°B50'04	22°46'50 1.40156 AU		8350 Apr 06 09:42 8350 Apr 25 06:36	0° Υ 28° Υ 18'46	1.42273 AU
•	8349 Apr 11 05:59 8349 Apr 16 05:02 8349 May 03 08:35 8349 May 15 11:29	0° Y 38'49 6° Y 12'04 0° ႘ 19° ႘ 06'54		morning set max. Earth dist.	8350 Apr 06 09:42 8350 Apr 25 06:36 8350 Apr 26 08:10 8350 May 02 03:24	0° Υ 28° Υ 18'46 0° ႘ 9° ႘ 22'08	
max. Earth dist.	8349 Apr 11 05:59 8349 Apr 16 05:02 8349 May 03 08:35 8349 May 15 11:29 8349 May 20 01:49 8349 May 21 21:55	0°Y38'49 6°Y12'04 0°B 19°B06'54 26°B50'04 0°耳	1.40156 AU	morning set max. Earth dist. superior conj	8350 Apr 06 09:42 8350 Apr 25 06:36 8350 Apr 26 08:10 8350 May 02 03:24 8350 May 09 12:59	0° Y 28° Y 18'46 0° ႘ 9° ႘ 22'08 21° ႘ 48'57	-2°00'44
max. Earth dist.	8349 Apr 11 05:59 8349 Apr 16 05:02 8349 May 03 08:35 8349 May 15 11:29 8349 May 20 01:49 8349 May 21 21:55 8349 May 27 20:10	0°Y38'49 6°Y12'04 0°と 19°と06'54 26°と50'04 0°耳	1.40156 AU -1°37′23	morning set max. Earth dist.	8350 Apr 06 09:42 8350 Apr 25 06:36 8350 Apr 26 08:10 8350 May 02 03:24 8350 May 09 12:59 8350 May 09 18:11	0° Y 28° Y 18'46 0° ႘ 9° ႘ 22'08 21° ႘ 48'57 22° ႘ 11'21	-2°00'44
max. Earth dist. superior conj minimum elong	8349 Apr 11 05:59 8349 Apr 16 05:02 8349 May 03 08:35 8349 May 15 11:29 8349 May 20 01:49 8349 May 21 21:55 8349 May 27 20:10 8349 May 28 01:52	0°Y38'49 6°Y12'04 0°8 19°806'54 26°850'04 0°用 10°用32'11 10°用58'09	1.40156 AU	morning set max. Earth dist. superior conj minimum elong	8350 Apr 06 09:42 8350 Apr 25 06:36 8350 Apr 26 08:10 8350 May 02 03:24 8350 May 09 12:59 8350 May 09 18:11 8350 May 14 05:19	0°Y 28°Y18'46 0°8 9°822'08 21°848'57 22°811'21 0°Ⅱ	-2°00'44
max. Earth dist.	8349 Apr 11 05:59 8349 Apr 16 05:02 8349 May 03 08:35 8349 May 15 11:29 8349 May 20 01:49 8349 May 21 21:55 8349 May 27 20:10	0°Y38'49 6°Y12'04 0°と 19°806'54 26°と50'04 0°用 10°用32'11 10°用58'09 29°用02'10	1.40156 AU -1°37′23	morning set max. Earth dist. superior conj	8350 Apr 06 09:42 8350 Apr 25 06:36 8350 Apr 26 08:10 8350 May 02 03:24 8350 May 09 12:59 8350 May 09 18:11 8350 May 14 05:19 8350 May 20 19:35	0°Y 28°Y18'46 0°8 9°822'08 21°848'57 22°811'21 0°Ⅱ 11°Ⅱ51'43	-2°00'44
max. Earth dist. superior conj minimum elong evening rise	8349 Apr 11 05:59 8349 Apr 16 05:02 8349 May 03 08:35 8349 May 15 11:29 8349 May 20 01:49 8349 May 21 21:55 8349 May 27 20:10 8349 May 28 01:52 8349 Jun 06 17:12 8349 Jun 07 05:23	0°Y38'49 6°Y12'04 0°と 19°8'06'54 26°8'50'04 0°耳 10°耳32'11 10°耳58'09 29°耳02'10	1.40156 AU -1°37′23	morning set max. Earth dist. superior conj minimum elong	8350 Apr 06 09:42 8350 Apr 25 06:36 8350 Apr 26 08:10 8350 May 02 03:24 8350 May 09 12:59 8350 May 09 18:11 8350 May 14 05:19 8350 May 20 19:35 8350 May 26 08:06	0°Y 28°Y18'46 0°8 9°822'08 21°848'57 22°811'21 0°Ⅲ 11°Ⅲ51'43 21°Ⅲ47'02	-2°00'44
max. Earth dist. superior conj minimum elong	8349 Apr 11 05:59 8349 Apr 16 05:02 8349 May 03 08:35 8349 May 15 11:29 8349 May 20 01:49 8349 May 21 21:55 8349 May 27 20:10 8349 May 28 01:52 8349 Jun 06 17:12	0°Y38'49 6°Y12'04 0°と 19°806'54 26°と50'04 0°用 10°用32'11 10°用58'09 29°用02'10	1.40156 AU -1°37′23	morning set max. Earth dist. superior conj minimum elong evening rise	8350 Apr 06 09:42 8350 Apr 25 06:36 8350 Apr 26 08:10 8350 May 02 03:24 8350 May 09 12:59 8350 May 09 18:11 8350 May 14 05:19 8350 May 20 19:35	0°Y 28°Y18'46 0°8 9°822'08 21°848'57 22°811'21 0°Ⅱ 11°Ⅱ51'43	-2°00'44

evening max el	8350 Jun 06 05:20	7° 5 944'19	18°07'43	asc. node	8351 May 13 05:08	10° Ⅱ 50′18	
retrograde	8350 Jun 12 23:59	11° © 10'55		evening max el	8351 May 20 18:33	20° Ⅱ 58'47	18°07'37
evening set	8350 Jun 15 11:36	10° 5 43'31		retrograde	8351 May 27 04:18	24° Ⅱ 19′26	
inferior conj	8350 Jun 22 07:22	5° © 50'54	2°06'31	evening set	8351 May 29 23:24	23° Ⅲ 39'47	
minimum elong	8350 Jun 22 10:24	5° © 43'49	2°05'29	inferior conj	8351 Jun 05 04:51	18° Ⅱ 27'59	2°52'34
min. Earth dist.	8350 Jun 25 14:21	2° 5 48'38	0.60327 AU	minimum elong	8351 Jun 05 07:21	18° Ⅲ 21′21	2°51'55
morning rise	8350 Jun 29 06:27	29° Ⅱ 59'33		min. Earth dist.	8351 Jun 08 01:13	15° Ⅱ 28′05	0.62551 AU
	8350 Jun 29 06:10	30°Ŗ Ⅱ		morning rise	8351 Jun 11 13:34	12° Ⅱ 20′26	
desc. node	8350 Jun 30 01:27	29° Ⅲ 31′23		desc. node	8351 Jun 16 22:29	9° Ⅱ 56'47	
direct	8350 Jul 05 19:23	27° Ⅱ 55'03		direct	8351 Jun 18 07:55	9° Ⅱ 50'39	
	8350 Jul 12 18:02	0		morning max el	8351 Jul 02 09:41	17° Ⅲ 53'10	27°53'38
morning max el	8350 Jul 20 03:18	5° © 51'35	27°47'04		8351 Jul 12 12:38	0ം ഉ	
	8350 Aug 07 05:04	0 ° Ω			8351 Jul 31 00:36	0 ° Ω	
morning set	8350 Aug 21 11:49	26° Ω 33'49		morning set	8351 Aug 05 11:24	10° Ω 38'16	
asc. node	8350 Aug 22 07:32	28° Ω 16'50		asc. node	8351 Aug 09 04:30	18° Ω 20'09	
	8350 Aug 23 03:04	0° m/y		max. Earth dist.	8351 Aug 10 20:45	21° Ω 54'53	1.32248 AU
max. Earth dist.	8350 Aug 27 15:02	9° m 45'07	1.31728 AU		0251 4 12 01 55	260 0 12150	0000111
	0050 4 00 15 00	100 0000	1001110	superior conj	8351 Aug 13 01:57	26° Ω 42'59	0°38'44
superior conj	8350 Aug 28 17:02	12° m 08'35	1°01'10	minimum elong	8351 Aug 13 00:16	26° Ω 33'51	0°38'18
minimum elong	8350 Aug 28 14:50	11° T 56'28	1°00'44		8351 Aug 14 14:00	0°M)	
evening rise	8350 Sep 04 11:00	26° m 56'51		evening rise	8351 Aug 19 22:31	11° m 39'14	
	8350 Sep 05 21:31	0∘ ⊽		1 1	8351 Aug 29 04:32	್ರಂ <u>ಹ</u>	
11-	8350 Sep 22 20:44	0°M		desc. node	8351 Sep 12 21:21	20° ♀ 35'32	24900100
desc. node	8350 Sep 26 00:17	4°M09'49 10°M31'23	25022157	evening max el	8351 Sep 13 07:14	20° £ 59'39 27° £ 50'48	24°00'08
evening max el	8350 Oct 01 18:41		25-32-37	retrograde	8351 Sep 26 23:38	27° 2 3048 27° 2 01'36	
retrograde	8350 Oct 15 16:50 8350 Oct 21 17:38	17°M33'42 16°M09'12		evening set min. Earth dist.	8351 Oct 01 17:17 8351 Oct 07 17:51	24° £ 01'36	0.56066 AU
evening set min. Earth dist.	8350 Oct 21 17.38 8350 Oct 26 06:55	13°M31'39	0.57803 AU	inferior conj	8351 Oct 07 17:31 8351 Oct 10 00:21	24 ≥ 04 20 22° ♀ 41'14	
inferior conj	8350 Oct 20 00:33 8350 Oct 29 07:33	11°M25'39		minimum elong	8351 Oct 10 00:21 8351 Oct 10 00:17	22° 2 41'19	
minimum elong	8350 Oct 29 07:33 8350 Oct 29 13:19	11°ML15'37		morning rise	8351 Oct 10 00:17 8351 Oct 18 09:23	18° £ 43'38	3 33 19
morning rise	8350 Nov 06 11:19	7°M08'06	3 12 19	direct	8351 Oct 18 03:25 8351 Oct 21 03:06	18° ≗ 43'38	
direct	8350 Nov 08 20:00	6°M50'58		morning max el	8351 Oct 31 05:50	23° ⊆ 10'06	19°55'24
morning max el	8350 Nov 17 12:54	11° M .01'46	18°52'03	asc. node	8351 Nov 05 04:09	28° ≏ 53'45	17 33 24
asc. node	8350 Nov 18 07:09	11°M47'23	10 32 03	use. Houe	8351 Nov 05 23:02	0° ™	
use. Houe	8350 Nov 30 03:25	0° √		morning set	8351 Nov 18 04:05	21°M59'55	
morning set	8350 Dec 03 23:35	7° ∡ ¹25'21			8351 Nov 22 02:13	0° ∡ ¹	
superior conj	8350 Dec 12 11:19	23° ₹ 57'41	1°13'01	superior conj	8351 Nov 25 22:14	7° √ 44'46	1°30'07
superior conj minimum elong	8350 Dec 12 11:19 8350 Dec 12 14:36	23° 尽 57'41 24° 尽 13'16		superior conj minimum elong	8351 Nov 25 22:14 8351 Nov 26 00:35		1°30'07 1°30'05
1 3		24°♂13'16 0°♂	1°12'48				
1 3	8350 Dec 12 14:36	24° \$\frac{1}{2}13'16 0° පි 6° පි55'47		minimum elong	8351 Nov 26 00:35	7° х 56′28 19° х 05′46 26° х 00′54	1°30'05
minimum elong max. Earth dist. desc. node	8350 Dec 12 14:36 8350 Dec 15 16:40 8350 Dec 19 12:34 8350 Dec 22 23:15	24°ダ13'16 0°る 6°る55'47 12°る56'06	1°12'48	minimum elong max. Earth dist.	8351 Nov 26 00:35 8351 Dec 01 18:42	7° メ 56'28 19° メ 05'46 26° メ 00'54 0°る	1°30'05
minimum elong max. Earth dist.	8350 Dec 12 14:36 8350 Dec 15 16:40 8350 Dec 19 12:34 8350 Dec 22 23:15 8350 Dec 23 10:35	24° メ13'16 0° る 6° る55'47 12° る56'06 13° る44'28	1°12'48	minimum elong max. Earth dist.	8351 Nov 26 00:35 8351 Dec 01 18:42 8351 Dec 05 13:02 8351 Dec 07 18:58 8351 Dec 09 20:16	7°×756'28 19°×705'46 26°×700'54 0°ठ 3°ठ32'58	1°30'05
minimum elong max. Earth dist. desc. node	8350 Dec 12 14:36 8350 Dec 15 16:40 8350 Dec 19 12:34 8350 Dec 22 23:15 8350 Dec 23 10:35 8351 Jan 02 11:17	24° ₹ 13'16 0° ₹ 6° ₹ 55'47 12° ₹ 56'06 13° ₹ 44'28 0° ≈	1°12'48	minimum elong max. Earth dist. evening rise desc. node	8351 Nov 26 00:35 8351 Dec 01 18:42 8351 Dec 05 13:02 8351 Dec 07 18:58 8351 Dec 09 20:16 8351 Dec 26 23:57	7° ₹ 56'28 19° ₹ 05'46 26° ₹ 00'54 0° ₹ 3° ₹ 32'58 0° ≋	1°30'05 1.37130 AU
minimum elong max. Earth dist. desc. node evening rise	8350 Dec 12 14:36 8350 Dec 15 16:40 8350 Dec 19 12:34 8350 Dec 22 23:15 8350 Dec 23 10:35 8351 Jan 02 11:17 8351 Jan 24 12:04	24°ダ13'16 0°ゼ 6°ゼ55'47 12°ゼ56'06 13°ゼ44'28 0°≈ 0°米	1°12'48 1.39265 AU	minimum elong max. Earth dist. evening rise desc. node evening max el	8351 Nov 26 00:35 8351 Dec 01 18:42 8351 Dec 05 13:02 8351 Dec 07 18:58 8351 Dec 09 20:16 8351 Dec 26 23:57 8352 Jan 10 04:03	7° ₹56'28 19° ₹05'46 26° ₹00'54 0° ₹ 3° ₹32'58 0° ≈ 17° ≈05'42	1°30'05 1.37130 AU
minimum elong max. Earth dist. desc. node evening rise evening max el	8350 Dec 12 14:36 8350 Dec 15 16:40 8350 Dec 19 12:34 8350 Dec 22 23:15 8350 Dec 23 10:35 8351 Jan 02 11:17 8351 Jan 24 12:04 8351 Jan 27 14:50	24°ダ13'16 0°弓 6°弓55'47 12°弓56'06 13°弓44'28 0°≈ 0°升 3°升17'31	1°12'48 1.39265 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	8351 Nov 26 00:35 8351 Dec 01 18:42 8351 Dec 05 13:02 8351 Dec 07 18:58 8351 Dec 09 20:16 8351 Dec 26 23:57 8352 Jan 10 04:03 8352 Jan 22 10:51	7° 🛪 56'28 19° 🛪 05'46 26° 🛪 00'54 0° 云 3° 云 32'58 0° ≈ 17° ≈ 05'42 24° ≈ 08'53	1°30'05 1.37130 AU
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde	8350 Dec 12 14:36 8350 Dec 15 16:40 8350 Dec 19 12:34 8350 Dec 22 23:15 8350 Dec 23 10:35 8351 Jan 02 11:17 8351 Jan 24 12:04 8351 Jan 27 14:50 8351 Feb 07 23:19	24°メ13'16 0°उ 6°उ55'47 12°उ56'06 13°उ44'28 0°≈ 0°米 3°升17'31 9°升56'42	1°12'48 1.39265 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	8351 Nov 26 00:35 8351 Dec 01 18:42 8351 Dec 05 13:02 8351 Dec 07 18:58 8351 Dec 09 20:16 8351 Dec 26 23:57 8352 Jan 10 04:03 8352 Jan 22 10:51 8352 Jan 28 09:13	7° \$\frac{7}{56'28} 19° \$\frac{7}{205'46} 26° \$\frac{7}{00'54} 0° \$\frac{3}{3}^3 \$\frac{3}{3}^2 \$\frac{1}{5}^2 \$\frac{1}{5}^2 \$\infty\$ 17° \$\infty\$05'42 24° \$\infty\$08'53 21° \$\infty\$42'18	1°30'05 1.37130 AU
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set	8350 Dec 12 14:36 8350 Dec 15 16:40 8350 Dec 19 12:34 8350 Dec 22 23:15 8350 Dec 23 10:35 8351 Jan 02 11:17 8351 Jan 24 12:04 8351 Jan 27 14:50 8351 Feb 07 23:19 8351 Feb 13 08:56	24°メ13'16 0°る 6°る55'47 12°る56'06 13°る44'28 0°≈ 0°米 3°米17'31 9°米56'42 7°米41'37	1°12'48 1.39265 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node	8351 Nov 26 00:35 8351 Dec 01 18:42 8351 Dec 05 13:02 8351 Dec 07 18:58 8351 Dec 09 20:16 8351 Dec 26 23:57 8352 Jan 10 04:03 8352 Jan 22 10:51 8352 Jan 28 09:13 8352 Feb 01 03:20	7° ₹56'28 19° ₹05'46 26° ₹00'54 0° ₹ 3° ₹32'58 0° ≈ 17° ≈05'42 24° ≈08'53 21° ≈42'18 17° ≈42'46	1°30'05 1.37130 AU 25°34'56
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node	8350 Dec 12 14:36 8350 Dec 15 16:40 8350 Dec 19 12:34 8350 Dec 22 23:15 8350 Dec 23 10:35 8351 Jan 02 11:17 8351 Jan 24 12:04 8351 Jan 27 14:50 8351 Feb 07 23:19 8351 Feb 13 08:56 8351 Feb 14 06:16	24° ₹13'16 0° ♂ 6° ♂ 55'47 12° ♂ 56'06 13° ♂ 44'28 0° ※ 0° ¥ 3° ¥ 17'31 9° ¥ 56'42 7° ¥ 41'37 6° ¥ 52'38	1°12'48 1.39265 AU 24°21'02	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist.	8351 Nov 26 00:35 8351 Dec 01 18:42 8351 Dec 05 13:02 8351 Dec 07 18:58 8351 Dec 09 20:16 8351 Dec 26 23:57 8352 Jan 10 04:03 8352 Jan 22 10:51 8352 Jan 28 09:13 8352 Feb 01 03:20 8352 Feb 01 17:50	7° ₹56'28 19° ₹05'46 26° ₹00'54 0° ₹ 3° ₹32'58 0° ≈ 17° ≈05'42 24° ≈08'53 21° ≈42'18 17° ≈42'46 16° ≈57'22	1°30′05 1.37130 AU 25°34′56 0.67355 AU
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist.	8350 Dec 12 14:36 8350 Dec 15 16:40 8350 Dec 19 12:34 8350 Dec 22 23:15 8350 Dec 23 10:35 8351 Jan 02 11:17 8351 Jan 24 12:04 8351 Feb 07 23:19 8351 Feb 13 08:56 8351 Feb 14 06:16 8351 Feb 18 00:37	24° \$\times 13'16 0° \$\times 6° \$\times 55'47 12° \$\times 56'06 13° \$\times 44'28 0° \$\times 0° \$\times 3° \$\times 17'31 9° \$\times 56'42 7° \$\times 41'37 6° \$\times 52'38 2° \$\times 22'02	1°12'48 1.39265 AU 24°21'02 0.68071 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj	8351 Nov 26 00:35 8351 Dec 01 18:42 8351 Dec 05 13:02 8351 Dec 07 18:58 8351 Dec 09 20:16 8351 Dec 26 23:57 8352 Jan 10 04:03 8352 Jan 22 10:51 8352 Jan 28 09:13 8352 Feb 01 03:20 8352 Feb 01 17:50 8352 Feb 03 01:46	7° ₹56'28 19° ₹05'46 26° ₹00'54 0° ₹ 3° ₹32'58 0° ≈ 17° ≈05'42 24° ≈08'53 21° ≈42'18 17° ≈42'46 16° ≈57'22 15° ≈15'21	1°30'05 1.37130 AU 25°34'56 0.67355 AU 0°38'13
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj	8350 Dec 12 14:36 8350 Dec 15 16:40 8350 Dec 19 12:34 8350 Dec 22 23:15 8350 Dec 23 10:35 8351 Jan 02 11:17 8351 Jan 24 12:04 8351 Jan 27 14:50 8351 Feb 07 23:19 8351 Feb 13 08:56 8351 Feb 14 06:16 8351 Feb 18 00:37 8351 Feb 18 21:09	24° \$\times 13'16 0° \$\times 6° \$\times 55'47 12° \$\times 56'06 13° \$\times 44'28 0° \$\times 0° \$\times 3° \$\times 17'31 9° \$\times 56'42 7° \$\times 41'37 6° \$\times 52'38 2° \$\times 22'02 1° \$\times 13'02	1°12'48 1.39265 AU 24°21'02 0.68071 AU 1°28'05	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	8351 Nov 26 00:35 8351 Dec 01 18:42 8351 Dec 05 13:02 8351 Dec 07 18:58 8351 Dec 09 20:16 8351 Dec 26 23:57 8352 Jan 10 04:03 8352 Jan 22 10:51 8352 Feb 01 03:20 8352 Feb 01 17:50 8352 Feb 03 01:46 8352 Feb 03 00:49	7° ₹56'28 19° ₹05'46 26° ₹00'54 0° ₹ 3° ₹32'58 0° ≈ 17° ≈05'42 24° ≈08'53 21° ≈42'18 17° ≈42'46 16° ≈57'22 15° ≈15'21 15° ≈18'22	1°30′05 1.37130 AU 25°34′56 0.67355 AU
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist.	8350 Dec 12 14:36 8350 Dec 15 16:40 8350 Dec 19 12:34 8350 Dec 22 23:15 8350 Dec 23 10:35 8351 Jan 02 11:17 8351 Jan 24 12:04 8351 Jan 27 14:50 8351 Feb 07 23:19 8351 Feb 13 08:56 8351 Feb 14 06:16 8351 Feb 18 00:37 8351 Feb 18 21:09 8351 Feb 18 19:18	24° \$\times 13'16 0° \$\times 6° \$\times 55'47 12° \$\times 56'06 13° \$\times 44'28 0° \$\times 0° \$\times 3° \$\times 17'31 9° \$\times 56'42 7° \$\times 41'37 6° \$\times 52'38 2° \$\times 22'02 1° \$\times 13'02 1° \$\times 19'16	1°12'48 1.39265 AU 24°21'02 0.68071 AU 1°28'05	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise	8351 Nov 26 00:35 8351 Dec 01 18:42 8351 Dec 05 13:02 8351 Dec 07 18:58 8351 Dec 09 20:16 8351 Dec 26 23:57 8352 Jan 10 04:03 8352 Jan 22 10:51 8352 Jan 28 09:13 8352 Feb 01 03:20 8352 Feb 01 17:50 8352 Feb 03 01:46 8352 Feb 03 00:49 8352 Feb 08 16:51	7° ₹56'28 19° ₹05'46 26° ₹00'54 0° ₹332'58 0° ≈ 17° ≈05'42 24° ≈08'53 21° ≈42'18 17° ≈42'46 16° ≈57'22 15° ≈15'21 15° ≈18'22 9° ≈22'36	1°30'05 1.37130 AU 25°34'56 0.67355 AU 0°38'13
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	8350 Dec 12 14:36 8350 Dec 15 16:40 8350 Dec 19 12:34 8350 Dec 22 23:15 8350 Dec 23 10:35 8351 Jan 02 11:17 8351 Jan 24 12:04 8351 Feb 07 23:19 8351 Feb 13 08:56 8351 Feb 14 06:16 8351 Feb 18 00:37 8351 Feb 18 21:09 8351 Feb 18 19:18 8351 Feb 19 19:02	24°ダ13'16 0°弓 6°弓55'47 12°弓56'06 13°弓44'28 0°≈ 0°光 3°光17'31 9°光56'42 7°光41'37 6°光52'38 2°光22'02 1°光13'02 1°光19'16 30°R≈	1°12'48 1.39265 AU 24°21'02 0.68071 AU 1°28'05	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct	8351 Nov 26 00:35 8351 Dec 01 18:42 8351 Dec 05 13:02 8351 Dec 07 18:58 8351 Dec 09 20:16 8351 Dec 26 23:57 8352 Jan 10 04:03 8352 Jan 22 10:51 8352 Jan 28 09:13 8352 Feb 01 03:20 8352 Feb 01 17:50 8352 Feb 03 01:46 8352 Feb 03 00:49 8352 Feb 08 16:51 8352 Feb 12 01:47	7° \$\sigma 56'28 19° \$\sigma 05'46 26° \$\sigma 00'54 0° \$\sigma 3° \$\sigma 32'58 0° \$\sigma 17° \$\sigma 05'42 24° \$\sigma 08'53 21° \$\sigma 42'18 17° \$\sigma 42'46 16° \$\sigma 57'22 15° \$\sigma 15'21 15° \$\sigma 18'22 9° \$\sigma 22'36 8° \$\sigma 17'15	1°30'05 1.37130 AU 25°34'56 0.67355 AU 0°38'13 0°37'57
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise	8350 Dec 12 14:36 8350 Dec 15 16:40 8350 Dec 19 12:34 8350 Dec 22 23:15 8350 Dec 23 10:35 8351 Jan 02 11:17 8351 Jan 24 12:04 8351 Jan 27 14:50 8351 Feb 07 23:19 8351 Feb 13 08:56 8351 Feb 14 06:16 8351 Feb 18 00:37 8351 Feb 18 21:09 8351 Feb 18 19:18 8351 Feb 19 19:02 8351 Feb 24 05:45	24° ₹13'16 0° ₹55'47 12° ₹56'06 13° ₹44'28 0° ≈ 0° ¥ 3° ¥17'31 9° ¥56'42 7° ¥41'37 6° ¥52'38 2° ¥22'02 1° ¥13'02 1° ¥19'16 30° ₹≈ 25° ≈ 12'00	1°12'48 1.39265 AU 24°21'02 0.68071 AU 1°28'05	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise	8351 Nov 26 00:35 8351 Dec 01 18:42 8351 Dec 05 13:02 8351 Dec 07 18:58 8351 Dec 09 20:16 8351 Dec 26 23:57 8352 Jan 10 04:03 8352 Jan 22 10:51 8352 Jan 28 09:13 8352 Feb 01 03:20 8352 Feb 01 17:50 8352 Feb 03 01:46 8352 Feb 03 00:49 8352 Feb 08 16:51 8352 Feb 12 01:47 8352 Feb 19 00:09	7° \$\sigma 56'28 19° \$\sigma 05'46 26° \$\sigma 00'54 0° \$\sigma 05'42 24° \$\approx 08'53 21° \$\approx 42'18 17° \$\approx 15'21 15° \$\approx 15'21 15° \$\approx 15'21 29° \$\approx 22'36 8° \$\approx 17'15 12° \$\approx 05'56	1°30'05 1.37130 AU 25°34'56 0.67355 AU 0°38'13
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct	8350 Dec 12 14:36 8350 Dec 15 16:40 8350 Dec 19 12:34 8350 Dec 22 23:15 8350 Dec 23 10:35 8351 Jan 02 11:17 8351 Jan 24 12:04 8351 Jan 27 14:50 8351 Feb 07 23:19 8351 Feb 13 08:56 8351 Feb 14 06:16 8351 Feb 18 00:37 8351 Feb 18 21:09 8351 Feb 18 19:18 8351 Feb 19 19:02 8351 Feb 24 05:45 8351 Feb 28 02:35	24° \$\times 13'16 0° \$\times 6° \$\times 55'47 12° \$\times 56'06 13° \$\times 44'28 0° \$\times 0° \$\times 3° \$\times 17'31 9° \$\times 56'42 7° \$\times 41'37 6° \$\times 52'38 2° \$\times 22'02 1° \$\times 13'02 1° \$\times 19'16 30° \$\times 25° \$\times 12'00 23° \$\times 46'32	1°12'48 1.39265 AU 24°21'02 0.68071 AU 1°28'05 1°27'30	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el	8351 Nov 26 00:35 8351 Dec 01 18:42 8351 Dec 05 13:02 8351 Dec 07 18:58 8351 Dec 09 20:16 8351 Dec 26 23:57 8352 Jan 10 04:03 8352 Jan 22 10:51 8352 Jan 28 09:13 8352 Feb 01 03:20 8352 Feb 01 17:50 8352 Feb 03 01:46 8352 Feb 03 00:49 8352 Feb 08 16:51 8352 Feb 12 01:47 8352 Feb 19 00:09 8352 Mar 03 08:59	7° \$\times 56'28 19° \$\times 05'46 26° \$\times 00'54 0° \$\times 05'42 24° \$\approx 08'53 21° \$\approx 42'18 17° \$\approx 15'21 15° \$\approx 15'21 15° \$\approx 15'21 29° \$\approx 22'36 8° \$\approx 17'15 12° \$\approx 05'56 0° \$\times 05'56	1°30'05 1.37130 AU 25°34'56 0.67355 AU 0°38'13 0°37'57 19°07'35
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise	8350 Dec 12 14:36 8350 Dec 15 16:40 8350 Dec 19 12:34 8350 Dec 22 23:15 8350 Dec 23 10:35 8351 Jan 02 11:17 8351 Jan 24 12:04 8351 Jan 27 14:50 8351 Feb 07 23:19 8351 Feb 13 08:56 8351 Feb 14 06:16 8351 Feb 18 00:37 8351 Feb 18 21:09 8351 Feb 18 19:18 8351 Feb 19 19:02 8351 Feb 24 05:45 8351 Feb 28 02:35 8351 Mar 07 18:27	24° ₹13'16 0° ₹55'47 12° ₹56'06 13° ₹44'28 0° ₹6'35 3° ¥17'31 9° ¥56'42 7° ¥41'37 6° ¥52'38 2° ¥22'02 1° ¥13'02 1° ¥19'16 30° ₹≈ 25° ≈12'00 23° ≈46'32 28° ≈05'57	1°12'48 1.39265 AU 24°21'02 0.68071 AU 1°28'05 1°27'30	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy	8351 Nov 26 00:35 8351 Dec 01 18:42 8351 Dec 05 13:02 8351 Dec 07 18:58 8351 Dec 09 20:16 8351 Dec 26 23:57 8352 Jan 10 04:03 8352 Jan 22 10:51 8352 Jan 28 09:13 8352 Feb 01 03:20 8352 Feb 01 17:50 8352 Feb 03 01:46 8352 Feb 03 00:49 8352 Feb 12 01:47 8352 Feb 12 01:47 8352 Feb 19 00:09 8352 Mar 03 08:59 8352 Mar 03 11:11	7° \$\times 56'28 19° \$\times 05'46 26° \$\times 00'54 0° \$\times 05'42 24° \$\infty 08'53 21° \$\infty 42'46 16° \$\infty 57'22 15° \$\infty 15'21 15° \$\infty 15'21 29° \$\infty 22'36 8° \$\infty 17'15 12° \$\infty 05'56 0° \$\times 0" \$\times 08'22	1°30'05 1.37130 AU 25°34'56 0.67355 AU 0°38'13 0°37'57
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el	8350 Dec 12 14:36 8350 Dec 15 16:40 8350 Dec 19 12:34 8350 Dec 22 23:15 8350 Dec 23 10:35 8351 Jan 02 11:17 8351 Jan 24 12:04 8351 Jan 27 14:50 8351 Feb 07 23:19 8351 Feb 13 08:56 8351 Feb 14 06:16 8351 Feb 18 00:37 8351 Feb 18 21:09 8351 Feb 18 19:18 8351 Feb 19 19:02 8351 Feb 24 05:45 8351 Feb 28 02:35 8351 Mar 07 18:27 8351 Mar 09 13:37	24° ₹13'16 0° ₹ 6° ₹55'47 12° ₹56'06 13° ₹44'28 0° ₩ 3° ₩17'31 9° ₩56'42 7° ₩41'37 6° ₩52'38 2° ₩22'02 1° ₩13'02 1° ₩19'16 30° ₹ 25° ≈ 12'00 23° ≈ 46'32 28° ≈ 05'57 0° ₩	1°12'48 1.39265 AU 24°21'02 0.68071 AU 1°28'05 1°27'30	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node	8351 Nov 26 00:35 8351 Dec 01 18:42 8351 Dec 05 13:02 8351 Dec 07 18:58 8351 Dec 09 20:16 8351 Dec 26 23:57 8352 Jan 10 04:03 8352 Jan 22 10:51 8352 Jan 28 09:13 8352 Feb 01 03:20 8352 Feb 01 17:50 8352 Feb 03 01:46 8352 Feb 03 00:49 8352 Feb 12 01:47 8352 Feb 12 01:47 8352 Feb 19 00:09 8352 Mar 03 08:59 8352 Mar 03 11:11 8352 Mar 06 19:51	7° \$\times 56'28 19° \$\times 05'46 26° \$\times 00'54 0° \$\times 05'42 24° \$\approx 08'53 21° \$\approx 42'18 17° \$\approx 24'46 16° \$\approx 57'22 15° \$\approx 15'21 15° \$\approx 15'21 2° \$\approx 22'36 8° \$\approx 17'15 12° \$\approx 05'56 0° \$\times 0° \$\times 08'22 5° \$\times 15'29	1°30'05 1.37130 AU 25°34'56 0.67355 AU 0°38'13 0°37'57 19°07'35
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct	8350 Dec 12 14:36 8350 Dec 15 16:40 8350 Dec 19 12:34 8350 Dec 22 23:15 8350 Dec 23 10:35 8351 Jan 02 11:17 8351 Jan 24 12:04 8351 Feb 07 23:19 8351 Feb 13 08:56 8351 Feb 14 06:16 8351 Feb 18 00:37 8351 Feb 18 21:09 8351 Feb 18 19:18 8351 Feb 18 19:18 8351 Feb 19 19:02 8351 Feb 24 05:45 8351 Feb 28 02:35 8351 Mar 07 18:27 8351 Mar 09 13:37 8351 Mar 20 22:55	24° ₹13'16 0° ₹56'06 13° ₹56'06 13° ₹44'28 0° ₹6'42 7° ¥41'37 6° ¥52'38 2° ¥22'02 1° ¥13'02 1° ¥19'16 30° ₹8 25° ≈12'00 23° ≈46'32 28° ≈05'57 0° ¥ 15° ¥08'56	1°12'48 1.39265 AU 24°21'02 0.68071 AU 1°28'05 1°27'30	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy	8351 Nov 26 00:35 8351 Dec 01 18:42 8351 Dec 05 13:02 8351 Dec 07 18:58 8351 Dec 09 20:16 8351 Dec 26 23:57 8352 Jan 10 04:03 8352 Jan 22 10:51 8352 Feb 01 03:20 8352 Feb 01 17:50 8352 Feb 03 00:49 8352 Feb 03 00:49 8352 Feb 12 01:47 8352 Feb 12 01:47 8352 Feb 19 00:09 8352 Mar 03 08:59 8352 Mar 03 11:11 8352 Mar 06 19:51 8352 Mar 13 08:12	7° \$\times 56'28 19° \$\times 05'46 26° \$\times 00'54 0° \$\times 05'42 24° \$\approx 05'42 24° \$\approx 05'42 24° \$\approx 05'42 15° \$\approx 15'21 15° \$\approx 15'21 15° \$\approx 15'21 15° \$\approx 15'21 15° \$\approx 15'26 0° \$\times 05'56 0° \$\times 05'56 0° \$\times 05'56 15'29 15° \$\times 15'29 15° \$\times 15'31	1°30'05 1.37130 AU 25°34'56 0.67355 AU 0°38'13 0°37'57 19°07'35
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	8350 Dec 12 14:36 8350 Dec 15 16:40 8350 Dec 19 12:34 8350 Dec 22 23:15 8350 Dec 23 10:35 8351 Jan 02 11:17 8351 Jan 24 12:04 8351 Jan 27 14:50 8351 Feb 07 23:19 8351 Feb 13 08:56 8351 Feb 14 06:16 8351 Feb 18 00:37 8351 Feb 18 21:09 8351 Feb 18 19:18 8351 Feb 19 19:02 8351 Feb 24 05:45 8351 Feb 28 02:35 8351 Mar 07 18:27 8351 Mar 09 13:37 8351 Mar 20 22:55 8351 Mar 30 21:35	24° \$\times 13'16 0° \$\times 6° \$\times 55'47 12° \$\times 56'06 13° \$\times 44'28 0° \$\times 0° \$\times 3° \$\times 17'31 9° \$\times 56'42 7° \$\times 41'37 6° \$\times 52'38 2° \$\times 22'02 1° \$\times 13'02 1° \$\times 19'16 30° \$\times 25° \$\times 12'00 23° \$\times 46'32 28° \$\times 05'57 0° \$\times 15° \$\times 08'56 0° \$\times 15'50'57	1°12'48 1.39265 AU 24°21'02 0.68071 AU 1°28'05 1°27'30	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set	8351 Nov 26 00:35 8351 Dec 01 18:42 8351 Dec 05 13:02 8351 Dec 07 18:58 8351 Dec 09 20:16 8351 Dec 26 23:57 8352 Jan 10 04:03 8352 Jan 22 10:51 8352 Feb 01 03:20 8352 Feb 01 17:50 8352 Feb 03 01:46 8352 Feb 03 00:49 8352 Feb 03 00:49 8352 Feb 12 01:47 8352 Feb 12 01:47 8352 Feb 19 00:09 8352 Mar 03 08:59 8352 Mar 03 11:11 8352 Mar 06 19:51 8352 Mar 13 08:12 8352 Mar 22 18:53	7° ₹56'28 19° ₹05'46 26° ₹00'54 0° ₹ 3° ₹32'58 0° ≈ 17° ≈05'42 24° ≈08'53 21° ≈42'18 17° ≈42'46 16° ≈57'22 15° ≈15'21 15° ≈18'22 9° ≈22'36 8° ≈17'15 12° ≈05'56 0° ₹ 0° ₹08'22 5° ₹15'29 15° ₹18'31 0° ₹	1°30'05 1.37130 AU 25°34'56 0.67355 AU 0°38'13 0°37'57 19°07'35 -0.7m
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set	8350 Dec 12 14:36 8350 Dec 15 16:40 8350 Dec 19 12:34 8350 Dec 22 23:15 8350 Dec 23 10:35 8351 Jan 02 11:17 8351 Jan 24 12:04 8351 Feb 07 23:19 8351 Feb 13 08:56 8351 Feb 14 06:16 8351 Feb 18 00:37 8351 Feb 18 21:09 8351 Feb 18 19:18 8351 Feb 19 19:02 8351 Feb 24 05:45 8351 Feb 28 02:35 8351 Mar 07 18:27 8351 Mar 09 13:37 8351 Mar 20 22:55 8351 Mar 30 21:35 8351 Apr 04 06:03	24° ₹13'16 0° ₹ 6° ₹55'47 12° ₹56'06 13° ₹44'28 0° ₩ 3° ₩17'31 9° ₩56'42 7° ₩41'37 6° ₩52'38 2° ₩22'02 1° ₩13'02 1° ₩19'16 30° № 25° ≈12'00 23° ≈46'32 28° ≈05'57 0° ₩ 15° ₩08'56 0° Ψ 6° Ψ40'24	1°12'48 1.39265 AU 24°21'02 0.68071 AU 1°28'05 1°27'30 20°07'21	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node	8351 Nov 26 00:35 8351 Dec 01 18:42 8351 Dec 05 13:02 8351 Dec 07 18:58 8351 Dec 09 20:16 8351 Dec 26 23:57 8352 Jan 10 04:03 8352 Jan 22 10:51 8352 Feb 01 03:20 8352 Feb 01 17:50 8352 Feb 03 00:49 8352 Feb 03 00:49 8352 Feb 12 01:47 8352 Feb 12 01:47 8352 Feb 19 00:09 8352 Mar 03 08:59 8352 Mar 03 11:11 8352 Mar 06 19:51 8352 Mar 13 08:12	7° \$\times 56'28 19° \$\times 05'46 26° \$\times 00'54 0° \$\times 05'42 24° \$\approx 05'42 24° \$\approx 05'42 24° \$\approx 05'42 15° \$\approx 15'21 15° \$\approx 15'21 15° \$\approx 15'21 15° \$\approx 15'21 15° \$\approx 15'26 0° \$\times 05'56 0° \$\times 05'56 0° \$\times 05'56 15'29 15° \$\times 15'29 15° \$\times 15'31	1°30'05 1.37130 AU 25°34'56 0.67355 AU 0°38'13 0°37'57 19°07'35
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	8350 Dec 12 14:36 8350 Dec 15 16:40 8350 Dec 19 12:34 8350 Dec 22 23:15 8350 Dec 23 10:35 8351 Jan 02 11:17 8351 Jan 24 12:04 8351 Feb 07 23:19 8351 Feb 13 08:56 8351 Feb 14 06:16 8351 Feb 18 00:37 8351 Feb 18 21:09 8351 Feb 18 19:18 8351 Feb 19 19:02 8351 Feb 24 05:45 8351 Feb 28 02:35 8351 Mar 07 18:27 8351 Mar 09 13:37 8351 Mar 20 22:55 8351 Mar 30 21:35 8351 Apr 04 06:03 8351 Apr 14 12:12	24° ₹13'16 0° ₹ 6° ₹55'47 12° ₹56'06 13° ₹44'28 0° ₩ 3° ₩17'31 9° ₩56'42 7° ₩41'37 6° ₩52'38 2° ₩22'02 1° ₩13'02 1° ₩19'16 30° № 25° ≈12'00 23° ≈46'32 28° ≈05'57 0° ₩ 15° ₩08'56 0° Ψ 6° Ψ40'24 22° Ψ46'01	1°12'48 1.39265 AU 24°21'02 0.68071 AU 1°28'05 1°27'30	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist.	8351 Nov 26 00:35 8351 Dec 01 18:42 8351 Dec 05 13:02 8351 Dec 07 18:58 8351 Dec 09 20:16 8351 Dec 26 23:57 8352 Jan 10 04:03 8352 Jan 22 10:51 8352 Jan 28 09:13 8352 Feb 01 03:20 8352 Feb 01 17:50 8352 Feb 03 01:46 8352 Feb 03 00:49 8352 Feb 08 16:51 8352 Feb 12 01:47 8352 Feb 12 01:47 8352 Feb 19 00:09 8352 Mar 03 08:59 8352 Mar 03 11:11 8352 Mar 13 08:12 8352 Mar 27 03:38	7° ₹56'28 19° ₹05'46 26° ₹00'54 0° ₹ 3° ₹32'58 0° ≈ 17° ≈05'42 24° ≈08'53 21° ≈42'18 17° ≈42'46 16° ≈57'22 15° ≈15'21 15° ≈18'22 9° ≈22'36 8° ≈17'15 12° ≈05'56 0° ₹ 0° ₹08'22 5° ₹15'29 15° ¥18'31 0° ₹ 6° ₹50'30	1°30'05 1.37130 AU 25°34'56 0.67355 AU 0°38'13 0°37'57 19°07'35 -0.7m
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set	8350 Dec 12 14:36 8350 Dec 15 16:40 8350 Dec 19 12:34 8350 Dec 22 23:15 8350 Dec 23 10:35 8351 Jan 02 11:17 8351 Jan 24 12:04 8351 Feb 07 23:19 8351 Feb 13 08:56 8351 Feb 14 06:16 8351 Feb 18 00:37 8351 Feb 18 21:09 8351 Feb 18 19:18 8351 Feb 19 19:02 8351 Feb 24 05:45 8351 Feb 28 02:35 8351 Mar 07 18:27 8351 Mar 09 13:37 8351 Mar 20 22:55 8351 Mar 30 21:35 8351 Apr 04 06:03	24° ₹13'16 0° ₹ 6° ₹55'47 12° ₹56'06 13° ₹44'28 0° ₩ 3° ₩17'31 9° ₩56'42 7° ₩41'37 6° ₩52'38 2° ₩22'02 1° ₩13'02 1° ₩19'16 30° № 25° ≈12'00 23° ≈46'32 28° ≈05'57 0° ₩ 15° ₩08'56 0° Ψ 6° Ψ40'24	1°12'48 1.39265 AU 24°21'02 0.68071 AU 1°28'05 1°27'30 20°07'21	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj	8351 Nov 26 00:35 8351 Dec 01 18:42 8351 Dec 05 13:02 8351 Dec 07 18:58 8351 Dec 09 20:16 8351 Dec 26 23:57 8352 Jan 10 04:03 8352 Jan 22 10:51 8352 Feb 01 03:20 8352 Feb 01 17:50 8352 Feb 03 01:46 8352 Feb 03 00:49 8352 Feb 03 00:49 8352 Feb 12 01:47 8352 Feb 12 01:47 8352 Feb 19 00:09 8352 Mar 03 08:59 8352 Mar 03 11:11 8352 Mar 06 19:51 8352 Mar 13 08:12 8352 Mar 22 18:53	7° ₹56'28 19° ₹05'46 26° ₹00'54 0° ₹ 3° ₹32'58 0° ≈ 17° ≈05'42 24° ≈08'53 21° ≈42'18 17° ≈42'46 16° ≈57'22 15° ≈15'21 15° ≈18'22 9° ≈22'36 8° ≈17'15 12° ≈05'56 0° ₹ 0° ₹08'22 5° ₹15'29 15° ₹18'31 0° ₹ 6° ₹50'30	1°30'05 1.37130 AU 25°34'56 0.67355 AU 0°38'13 0°37'57 19°07'35 -0.7m
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set	8350 Dec 12 14:36 8350 Dec 15 16:40 8350 Dec 19 12:34 8350 Dec 22 23:15 8350 Dec 23 10:35 8351 Jan 02 11:17 8351 Jan 24 12:04 8351 Feb 07 23:19 8351 Feb 13 08:56 8351 Feb 14 06:16 8351 Feb 18 00:37 8351 Feb 18 21:09 8351 Feb 18 19:18 8351 Feb 19 19:02 8351 Feb 24 05:45 8351 Feb 28 02:35 8351 Mar 07 18:27 8351 Mar 09 13:37 8351 Mar 20 22:55 8351 Mar 30 21:35 8351 Apr 04 06:03 8351 Apr 14 12:12	24° ₹13'16 0° ₹ 6° ₹55'47 12° ₹56'06 13° ₹44'28 0° ₩ 3° ₩17'31 9° ₩56'42 7° ₩41'37 6° ₩52'38 2° ₩22'02 1° ₩13'02 1° ₩19'16 30° № 25° ≈12'00 23° ≈46'32 28° ≈05'57 0° ₩ 15° ₩08'56 0° Ψ 6° Ψ40'24 22° Ψ46'01	1°12'48 1.39265 AU 24°21'02 0.68071 AU 1°28'05 1°27'30 20°07'21	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist.	8351 Nov 26 00:35 8351 Dec 01 18:42 8351 Dec 05 13:02 8351 Dec 07 18:58 8351 Dec 09 20:16 8351 Dec 26 23:57 8352 Jan 10 04:03 8352 Jan 22 10:51 8352 Jan 28 09:13 8352 Feb 01 03:20 8352 Feb 01 17:50 8352 Feb 03 01:46 8352 Feb 03 00:49 8352 Feb 08 16:51 8352 Feb 12 01:47 8352 Feb 12 01:47 8352 Feb 19 00:09 8352 Mar 03 08:59 8352 Mar 03 11:11 8352 Mar 13 08:12 8352 Mar 22 18:53 8352 Mar 27 03:38	7° ₹56'28 19° ₹05'46 26° ₹00'54 0° ₹ 3° ₹32'58 0° ≈ 17° ≈05'42 24° ≈08'53 21° ≈42'18 17° ≈42'46 16° ≈57'22 15° ≈15'21 15° ≈18'22 9° ≈22'36 8° ≈17'15 12° ≈05'56 0° ₹ 0° ₹08'22 5° ₹15'29 15° ¥18'31 0° ₹ 6° ₹50'30	1°30'05 1.37130 AU 25°34'56 0.67355 AU 0°38'13 0°37'57 19°07'35 -0.7m
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	8350 Dec 12 14:36 8350 Dec 15 16:40 8350 Dec 19 12:34 8350 Dec 22 23:15 8350 Dec 23 10:35 8351 Jan 02 11:17 8351 Jan 24 12:04 8351 Feb 07 23:19 8351 Feb 13 08:56 8351 Feb 14 06:16 8351 Feb 18 00:37 8351 Feb 18 19:18 8351 Feb 18 19:18 8351 Feb 19 19:02 8351 Feb 24 05:45 8351 Feb 24 05:45 8351 Feb 23 02:35 8351 Mar 07 18:27 8351 Mar 09 13:37 8351 Mar 20 22:55 8351 Mar 30 21:35 8351 Apr 04 06:03 8351 Apr 14 12:12 8351 Apr 18 23:48	24° ₹13'16 0° ₹6° ₹55'47 12° ₹56'06 13° ₹44'28 0° ₹6'42 7° ₹41'37 6° ₹52'38 2° ₹22'02 1° ₹13'02 1° ₹19'16 30° ₹≈25° ≈12'00 23° ≈46'32 28° ≈05'57 0° ₹6° ₹40'24 22° ₹46'01 0° ₹6° ₹40'10 0° ₹6° ₹6° ₹60'10 0° ₹6° ₹60'10 0° ₹60'10 0° ₹60'10 0° ₹60'10 0° ₹60'10 0° ₹60'10 0	1°12'48 1.39265 AU 24°21'02 0.68071 AU 1°28'05 1°27'30 20°07'21 1.43997 AU -2°11'44	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj	8351 Nov 26 00:35 8351 Dec 01 18:42 8351 Dec 05 13:02 8351 Dec 07 18:58 8351 Dec 09 20:16 8351 Dec 26 23:57 8352 Jan 10 04:03 8352 Jan 22 10:51 8352 Feb 01 03:20 8352 Feb 01 17:50 8352 Feb 03 01:46 8352 Feb 03 00:49 8352 Feb 08 16:51 8352 Feb 12 01:47 8352 Feb 12 01:47 8352 Feb 19 00:09 8352 Mar 03 08:59 8352 Mar 03 11:11 8352 Mar 06 19:51 8352 Mar 13 08:12 8352 Mar 29 16:39	7° \$\times 56'28 19° \$\times 05'46 26° \$\times 00'54 0° \$\times 05'42 24° \$\times 08'53 21° \$\times 42'18 17° \$\times 15'21 15° \$\times 15'22 15° \$\times 15'22 15° \$\times 15'29 15° \$\times 18'31 0° \$\times 6° \$\times 50'30 11° \$\times 15'13 10° \$\times 51'05	1°30'05 1.37130 AU 25°34'56 0.67355 AU 0°38'13 0°37'57 19°07'35 -0.7m
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	8350 Dec 12 14:36 8350 Dec 15 16:40 8350 Dec 19 12:34 8350 Dec 22 23:15 8350 Dec 23 10:35 8351 Jan 02 11:17 8351 Jan 24 12:04 8351 Feb 07 23:19 8351 Feb 13 08:56 8351 Feb 14 06:16 8351 Feb 18 00:37 8351 Feb 18 19:18 8351 Feb 18 19:18 8351 Feb 19 19:02 8351 Feb 24 05:45 8351 Feb 28 02:35 8351 Mar 07 18:27 8351 Mar 09 13:37 8351 Mar 20 22:55 8351 Mar 30 21:35 8351 Apr 04 06:03 8351 Apr 14 12:12 8351 Apr 20 05:29	24° ₹13'16 0° ₹6 6° ₹55'47 12° ₹56'06 13° ₹44'28 0° ₹6' 42 7° ¥41'37 6° ¥52'38 2° ¥22'02 1° ¥13'02 1° ¥19'16 30° ₹≈ 25° ≈12'00 23° ≈46'32 28° ≈05'57 0° ¥ 15° ¥08'56 0° Y 6° ¥40'24 22° ¥46'01 0° ₹8	1°12'48 1.39265 AU 24°21'02 0.68071 AU 1°28'05 1°27'30 20°07'21 1.43997 AU -2°11'44	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj minimum elong	8351 Nov 26 00:35 8351 Dec 01 18:42 8351 Dec 05 13:02 8351 Dec 07 18:58 8351 Dec 09 20:16 8351 Dec 26 23:57 8352 Jan 10 04:03 8352 Jan 22 10:51 8352 Feb 01 03:20 8352 Feb 01 17:50 8352 Feb 03 01:46 8352 Feb 03 00:49 8352 Feb 12 01:47 8352 Feb 12 01:47 8352 Feb 12 01:47 8352 Feb 13 08:59 8352 Mar 03 08:59 8352 Mar 03 11:11 8352 Mar 04 19:51 8352 Mar 29 18:53 8352 Mar 29 16:39 8352 Mar 29 16:39 8352 Mar 29 16:39 8352 Mar 29 16:39	7° \$\times 56'28 19° \$\times 05'46 26° \$\times 00'54 0° \$\times 05'42 24° \$\infty 08'53 21° \$\infty 42'46 16° \$\infty 57'22 15° \$\infty 15'21 15° \$\infty 15'21 15° \$\infty 15'26 0° \$\times 05'56 0° \$\times 0' \$\times 05'56 0° \$\times 15'29 15° \$\times 18'31 0° \$\times 0' \$\tim	1°30'05 1.37130 AU 25°34'56 0.67355 AU 0°38'13 0°37'57 19°07'35 -0.7m
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	8350 Dec 12 14:36 8350 Dec 15 16:40 8350 Dec 19 12:34 8350 Dec 22 23:15 8350 Dec 23 10:35 8351 Jan 02 11:17 8351 Jan 24 12:04 8351 Feb 07 23:19 8351 Feb 13 08:56 8351 Feb 14 06:16 8351 Feb 18 21:09 8351 Feb 18 19:18 8351 Feb 18 19:18 8351 Feb 19 19:02 8351 Feb 24 05:45 8351 Feb 24 05:45 8351 Feb 23 02:35 8351 Mar 07 18:27 8351 Mar 09 13:37 8351 Mar 20 22:55 8351 Mar 30 21:35 8351 Apr 14 12:12 8351 Apr 14 12:12 8351 Apr 20 05:29 8351 Apr 20 05:29 8351 Apr 20 05:29	24° ₹13'16 0° ₹ 6° ₹55'47 12° ₹56'06 13° ₹44'28 0° ≈ 0° ₹ 3° ₹17'31 9° ₹56'42 7° ₹41'37 6° ₹52'38 2° ₹22'02 1° ₹13'02 1° ₹19'16 30° ₹≈ 25° ≈12'00 23° ≈46'32 28° ≈05'57 0° ₹ 15° ₹08'56 0° ₹ 6° ₹40'24 22° ₹46'01 0° ₹ 2° ₹35'05'05	1°12'48 1.39265 AU 24°21'02 0.68071 AU 1°28'05 1°27'30 20°07'21 1.43997 AU -2°11'44	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj minimum elong evening rise	8351 Nov 26 00:35 8351 Dec 01 18:42 8351 Dec 05 13:02 8351 Dec 07 18:58 8351 Dec 09 20:16 8351 Dec 26 23:57 8352 Jan 10 04:03 8352 Jan 28 09:13 8352 Feb 01 03:20 8352 Feb 01 17:50 8352 Feb 03 01:46 8352 Feb 03 00:49 8352 Feb 12 01:47 8352 Feb 12 01:47 8352 Feb 12 01:47 8352 Feb 13 08:59 8352 Mar 03 11:11 8352 Mar 04 19:51 8352 Mar 05 19:51 8352 Mar 29 22:45 8352 Mar 29 16:39 8352 Apr 10 14:52 8352 Apr 13 14:35	7° \$\times 56'28 19° \$\times 05'46 26° \$\times 00'54 0° \$\times 05'42 24° \$\infty 08'53 21° \$\infty 42'46 16° \$\infty 57'22 15° \$\infty 15'21 15° \$\infty 15'21 15° \$\infty 15'15 12° \$\infty 56'6 0° \$\times 0' \$\times 0' \$\times 15'21 15° \$\infty 15'15 12° \$\infty 15'13 10° \$\times 15'3'26 11° \$\times 15'3'26	1°30'05 1.37130 AU 25°34'56 0.67355 AU 0°38'13 0°37'57 19°07'35 -0.7m

evening max el	8352 May 03 07:24	4° Ⅱ 26'43	18°25'57	max. Earth dist.	8353 Mar 09 22:52	21° ∺ 17'31	1.45526 AU
retrograde	8352 May 09 18:02	7° Ⅱ 55'31			8353 Mar 15 12:26	0° Y	
evening set	8352 May 12 20:25	7° Ⅲ 02'13		evening rise	8353 Mar 25 01:39	14° Y 59'40	
inferior conj	8352 May 18 15:34	1° Ⅱ 32'35	3°16'36		8353 Apr 03 15:01	9° 8	
minimum elong	8352 May 18 16:49	1° Ⅱ 28'54	3°16'20	greatest brilliancy	8353 Apr 04 03:06	0° 8 46'45	-0.8m
	8352 May 19 22:56	30° ₹ 8		asc. node	8353 Apr 15 23:16	17° 8 14'31	
min. Earth dist.	8352 May 20 21:17	28° 8 55'10	0.64547 AU	evening max el	8353 Apr 16 17:21	18° 8 01'51	19°01'55
morning rise	8352 May 24 12:17	25° 8 17'03		retrograde	8353 Apr 23 13:30	21° 8 51'34	
direct	8352 May 31 04:37	22° 8 33'09		evening set	8353 Apr 26 23:26	20° 8 43'51	
desc. node	8352 Jun 02 19:30	22° 8 55'23		inferior conj	8353 May 02 11:50	14° 8 58'06	
	8352 Jun 13 06:54	Π °0		minimum elong	8353 May 02 11:46	14° 8 58'20	3°23'13
morning max el	8352 Jun 13 19:20	0° ∏ 31′02	27°24'16	min. Earth dist.	8353 May 04 02:10	12° 8 56'11	0.66167 AU
	8352 Jul 05 13:40	ი. ௐ		morning rise	8353 May 07 23:37	8° 8 39'54	
morning set	8352 Jul 19 02:28	24° © 15'07		direct	8353 May 14 08:13	5° 8 53'52	
	8352 Jul 21 23:40	0°N		desc. node	8353 May 20 16:30	8° 8 04'08	
max. Earth dist.	8352 Jul 23 18:50	3° Ω 40'56	1.33255 AU	morning max el	8353 May 27 05:54	13° 8 34'32	26°25'42
asc. node	8352 Jul 26 01:27	8° Ω 26'15			8353 Jun 09 12:49	0°Ⅱ	
	0252 1 1 27 06 20	110 00006	0010114		8353 Jun 28 06:42	0°99	
superior conj	8352 Jul 27 06:29	11°Ω00'06	0°12'14	morning set	8353 Jul 02 05:47	7°©15'54	1 24742 ATT
minimum elong	8352 Jul 27 05:53	10° Ω 56'51	0°11'58	max. Earth dist.	8353 Jul 06 06:38	15° © 01'09	1.34743 AU
behind sun begin behind sun end	8352 Jul 27 02:12	10° Ω 37'18			0252 1 1 11 04 21	240652150	0017122
	8352 Jul 27 09:33	11° Ω 16'25		superior conj minimum elong	8353 Jul 11 04:21 8353 Jul 11 05:21	24°953'50	
evening rise	8352 Aug 03 09:47	26° Ω 17'14 0° m		asc. node	8353 Jul 11 05:21 8353 Jul 12 22:26	24°\$58'58 28°\$31'32	0-1/31
	8352 Aug 05 04:16 8352 Aug 23 15:20	0∘ ʊ ∩ ılıı		asc. node	8353 Jul 12 22.26 8353 Jul 13 15:25	28 3 31 32 0° Ω	
evening max el	8352 Aug 24 19:45		22°20'50	evening rise	8353 Jul 18 18:51	10° Ω 45'16	
desc. node	8352 Aug 24 19:43 8352 Aug 29 18:28	5° Ω 10'12	22 20 30	evening rise	8353 Jul 18 18:31 8353 Jul 28 21:02	0° m	
retrograde	8352 Sep 06 18:03	7° Ω 38'51		evening max el	8353 Aug 06 17:05	11°Mp45'56	20°50'39
evening set	8352 Sep 00 10:05 8352 Sep 09 23:46	7° ⊆ 15'43		desc. node	8353 Aug 16 15:33	17° m) 22'46	20 30 37
min. Earth dist.	8352 Sep 18 02:02	3° Ω 42'55	0.54952 AU	retrograde	8353 Aug 18 06:26	17° mg 22'10	
inferior conj	8352 Sep 18 23:43	3° ₽ 12'21		evening set	8353 Aug 20 10:33	17° mp 18'00	
minimum elong	8352 Sep 18 16:22		5°06'39	inferior conj	8353 Aug 29 16:09	13° m) 21'09	-3°46'22
8	8352 Sep 25 11:52	30°R, M)		minimum elong	8353 Aug 29 06:48	13° m) 34'27	
morning rise	8352 Sep 27 10:43	29° m 24'34		min. Earth dist.	8353 Aug 30 11:03	12° m 54'15	0.54712 AU
direct	8352 Sep 30 17:34	29° m 00'19		morning rise	8353 Sep 07 03:10	9° m 23'21	
	8352 Oct 05 17:15	0∘ <u>v</u>		direct	8353 Sep 11 01:32	8° m 50'16	
morning max el	8352 Oct 12 09:41	4° £ 28'57	21°20'36	morning max el	8353 Sep 24 02:48	15° Mp 05'21	23°02'08
asc. node	8352 Oct 22 01:07	16° ≏ 53'35			8353 Oct 05 16:13	0∘ ⊽	
	8352 Oct 29 05:38	0°M		asc. node	8353 Oct 08 22:07	5° £ 34'26	
morning set	8352 Nov 01 12:57	6° ™ 44'55		morning set	8353 Oct 17 00:09	21° ≏ 34'39	
					8353 Oct 20 22:26	0° M	
superior conj	8352 Nov 08 19:32	22°M00'42	1°39'13				
minimum elong	8352 Nov 08 20:35	22°M06'07	1°39'18	superior conj	8353 Oct 23 23:57	6°M36'02	1°41'14
	8352 Nov 12 17:26	0° ∡ 7		minimum elong	8353 Oct 23 23:43	6° ™ 34'46	1°41'20
max. Earth dist.	8352 Nov 13 05:27	0° ∡ 759'59	1.35205 AU	max. Earth dist.	8353 Oct 26 23:58	12°M57'41	1.33643 AU
evening rise	8352 Nov 17 09:03	9° х 03′24		evening rise	8353 Oct 31 18:49	22°M42'36	
desc. node	8352 Nov 25 17:17	23° ∡ ′58'38			8353 Nov 04 13:45	0°⊀	
	8352 Nov 29 09:09	0°る		desc. node	8353 Nov 12 14:20	14° ₹ 07'34	
	8352 Dec 21 21:04	0° ≈			8353 Nov 23 02:18	0° ろ	
evening max el	8352 Dec 22 17:19	0°≈49'46	26°35'39	evening max el	8353 Dec 05 06:08	14°る20'30	27°15'58
retrograde	8353 Jan 04 17:00	8°≈06'15		retrograde	8353 Dec 18 17:18	21° 3 41'09	
evening set	8353 Jan 11 03:30	5°≈31'53	0.66262.411	evening set	8353 Dec 25 13:38	19° る 05'05	0.64016.411
min. Earth dist.	8353 Jan 15 05:49	1°≈21'47	0.66263 AU	min. Earth dist.	8353 Dec 29 10:24	15° る 28'41	0.64816 AU
: <i>£</i> :	8353 Jan 16 09:20	30°Rる 29°る11'58	0010110	inferior conj	8353 Dec 31 17:41	12°る57'57 12°る51'03	
inferior conj	8353 Jan 17 01:22 8353 Jan 17 01:54	29° る 11′38		minimum elong asc. node	8353 Dec 31 20:13 8354 Jan 04 21:31	8° る 54'13	1°22'18
minimum elong asc. node	8353 Jan 17 01:34 8353 Jan 18 00:25	29°る10°24 28°る03'55	0 10 33	morning rise	8354 Jan 04 21:31 8354 Jan 07 04:17	8° 6 3413	
morning rise	8353 Jan 23 01:13	28 さ 03 33		direct	8354 Jan 09 18:27	6° る 54'06	
direct	8353 Jan 25 23:50	23 3 2933 22° 3 41'33		morning max el	8354 Jan 16 04:49	6 33406 10° る 17'03	17°57'12
morning max el	8353 Feb 01 12:27	22 3 41 33 26° る 11'53	18°24'00	morning max ci	8354 Jan 29 19:18	0°≈	11 21 14
morning max of	8353 Feb 01 12:27 8353 Feb 04 20:23	20 ⊙ 11 33	10 2100	morning set	8354 Feb 02 17:28	0 ∞ 6°≈31'45	
morning set	8353 Feb 21 10:05	0 ∞ 25°≈11'28		desc. node	8354 Feb 02 17:28 8354 Feb 08 13:43	16°≈11'59	
desc. node	8353 Feb 21 16:47	25°≈38'10		acco. Hode	555.100 00 15.75	10 /4/11 39	
Ecot. Hour	8353 Feb 24 10:34	0° ∀		superior conj	8354 Feb 16 15:39	29° ≈ 16'05	-0°56'13
	2222 100 21 10.54	~ /\		minimum elong	8354 Feb 16 09:10	28°≈50'14	
superior conj	8353 Mar 09 03:47	20°) 02'46	-1°37'19		8354 Feb 17 02:41	0° ∀	
minimum elong	8353 Mar 08 18:09	19°) 25'06		max. Earth dist.	8354 Feb 20 18:26		1.45185 AU
			= -				

evening rise	8354 Mar 04 18:19	24°) € 26'00		minimum elong	8355 Jan 28 00:07	9° ≈ 29'25	0°11'27
evening rise	8354 Mar 08 09:22	24 γ (2000		behind sun begin	8355 Jan 27 17:31	9°≈02'02	0 1127
greatest brilliancy	8354 Mar 19 04:31	16° Ƴ 16'44	-0.6m	behind sun end	8355 Jan 28 06:42	9°≈56'46	
greatest of financy	8354 Mar 29 09:34	0°8	0.0111	max. Earth dist.	8355 Feb 03 11:46	20°≈03'54	1.44149 AU
evening max el	8354 Mar 30 22:33	1° 8 39'31	19°54'06	max. Earth dist.	8355 Feb 09 18:50	0° ∀	1.11119710
asc. node	8354 Apr 02 20:23	4° 8 13'04	15 5100	evening rise	8355 Feb 12 05:39	3°) 47'42	
retrograde	8354 Apr 07 11:40	6° 8 00'44		evening rise	8355 Mar 01 20:34	0°Υ	
evening set	8354 Apr 11 05:57	4° 8 38'13		evening max el	8355 Mar 13 22:18	15° Υ 18'54	20°59'53
evening sec	8354 Apr 15 14:00	30°RY		asc. node	8355 Mar 20 17:31	20° Υ 04'06	20 37 33
inferior conj	8354 Apr 16 14:34	28° Y ′38′13	3°16'22	retrograde	8355 Mar 22 10:09	20°Υ18'44	
minimum elong	8354 Apr 16 13:25	28° Y '42'07	3°16'10	evening set	8355 Mar 26 13:58	18° Y 41'05	
min. Earth dist.	8354 Apr 17 14:17	27° Υ 18'32	0.67358 AU	inferior conj	8355 Mar 31 21:17	12° Υ 29'06	2°58'06
morning rise	8354 Apr 21 20:36	22° Υ 20'42	0.07330710	minimum elong	8355 Mar 31 19:23	12° Υ 35'42	
direct	8354 Apr 27 17:54	19° Υ 43'02		min. Earth dist.	8355 Apr 01 07:32	11° Y 53'39	0.68109 AU
desc. node	8354 May 07 13:30	24° Υ 50'48		morning rise	8355 Apr 06 00:34	6° Υ 14'25	0.08109 AC
morning max el	8354 May 09 15:34	26° Υ 51'18	25°06'59	direct	8355 Apr 00 00:34 8355 Apr 11 08:36	3°Υ52'56	
morning max cr	8354 May 12 13:45	0° 8	23 00 37	morning max el	8355 Apr 11 08:50 8355 Apr 22 00:40	10° Υ 14'52	22028118
	8354 Jun 03 03:36	0°II		desc. node	8355 Apr 24 10:28	10 γ 14 32 12° Υ 48'57	23 36 16
marning sat	8354 Jun 14 16:51	19° ∏ 28′03		desc. node	8355 May 07 15:59	0° 8	
morning set max. Earth dist.	8354 Jun 18 07:57	19 Ⅲ 28 03 26° Ⅲ 04'54	1.36659 AU		•	0°II	
max. Earth dist.	8354 Jun 20 10:04	20 п 04 34 0°9	1.30039 AU	morning set	8355 May 26 21:28	0° П 37'13	
	8554 Juli 20 10.04	0 😊		Č	8355 May 27 06:14	0 П 3713 7° П 21'21	1 20050 ATT
	9254 I 24 16:24	00615157	0940115	max. Earth dist.	8355 May 31 03:49	/° ш 21′21	1.38859 AU
superior conj	8354 Jun 24 16:34	8°915'57			0255 1 07 15 20	200T57146	1020142
minimum elong	8354 Jun 24 19:35	8°930'46	0°48'53	superior conj	8355 Jun 07 15:30	20°Ⅲ57'46 21°Ⅲ21'03	
asc. node	8354 Jun 29 19:27	18°931'33		minimum elong	8355 Jun 07 20:27		1°20'08
evening rise	8354 Jul 02 23:23	24°956'08			8355 Jun 12 09:11	0°55	
	8354 Jul 05 12:11	0°N	10020125	evening rise	8355 Jun 16 20:36	8°542'29	
evening max el	8354 Jul 20 03:42	23° Ω 01'35	19°38'35	asc. node	8355 Jun 16 16:28	8° © 22'23	
retrograde	8354 Jul 30 00:04	27° Ω 53'09			8355 Jun 28 22:16	0° Ω	
evening set	8354 Jul 31 20:25	27° Ω 43'38		evening max el	8355 Jul 03 02:29	5° Ω 01'44	18°47'16
desc. node	8354 Aug 03 12:40	26° Ω 58'45		retrograde	8355 Jul 11 09:28	9° Ω 08'15	
inferior conj	8354 Aug 09 16:17	23° Ω 40′08		evening set	8355 Jul 13 09:38	8° Ω 54'43	
minimum elong	8354 Aug 09 11:08	23° Ω 48'13	1°51'00	inferior conj	8355 Jul 21 10:56	4° Ω 34'14	
min. Earth dist.	8354 Aug 11 23:02	22° Ω 14'21	0.55430 AU	minimum elong	8355 Jul 21 10:53	4° Ω 34'19	0°01'01
morning rise	8354 Aug 17 23:34	19° Ω 12'51		transit middle	8355 Jul 21 10:53	4° Ω 34'19	0°01'01
direct	8354 Aug 22 16:56	18° Ω 23'08		transit begin	8355 Jul 21 07:12	4° Ω 41'02	
morning max el	8354 Sep 05 15:18	25° Ω 20'08	24°47'44	transit end	8355 Jul 21 14:35	4° Ω 27'35	
	8354 Sep 10 00:15	0° т р		desc. node	8355 Jul 21 09:46	4° Ω 36′22	
asc. node	8354 Sep 25 19:05	24° m 45'47		min. Earth dist.	8355 Jul 24 15:03	2° Ω 16′29	0.56973 AU
	8354 Sep 28 10:21	0∘ ಹ			8355 Jul 28 07:42	30° ₹ 5	
morning set	8354 Oct 01 11:55	6° ≏ 23'48		morning rise	8355 Jul 29 08:43	29° © 30'05	
				direct	8355 Aug 03 22:30	28° © 14'33	
superior conj	8354 Oct 08 08:54	21° ≏ 22'41	1°36'59		8355 Aug 10 15:02	$0^{\circ}\Omega$	
minimum elong	8354 Oct 08 07:37	21° ≏ 15'39	1°36'59	morning max el	8355 Aug 18 05:50	5° Ω 42'09	26°20'42
max. Earth dist.	8354 Oct 10 02:20	25° ഫ 08'39	1.32515 AU		8355 Sep 05 01:16	O° My	
	8354 Oct 12 08:30	0° M		asc. node	8355 Sep 12 16:02	14° Mp 19'23	
evening rise	8354 Oct 15 14:49	6° ™ 49'14		morning set	8355 Sep 15 22:34	21°Mp07'14	
	8354 Oct 28 02:16	0° ∡ ¹			8355 Sep 20 00:43	0∘ ত	
desc. node	8354 Oct 30 11:25	3° ∡ ¹52'34					
evening max el	8354 Nov 17 17:07	27° ∡ ¹26'49	27°29'13	superior conj	8355 Sep 22 20:11	6° £ 13'23	1°27'07
	8354 Nov 20 15:07	0°ಕ		minimum elong	8355 Sep 22 18:12	6° ഫ 02'25	1°26'55
retrograde	8354 Dec 01 11:06	4°₹44'44		max. Earth dist.	8355 Sep 23 10:22	7° ≏ 31'58	1.31851 AU
evening set	8354 Dec 08 12:54	2° る 15'37		evening rise	8355 Sep 29 18:06	21° ≏ 14'42	
	8354 Dec 11 07:58	30°₽ ⋌			8355 Oct 04 01:20	0°M₊	
min. Earth dist.	8354 Dec 12 05:48	29° ₹ 09'21	0.63051 AU	desc. node	8355 Oct 17 08:31	23°M03'13	
inferior conj	8354 Dec 15 00:00	26° ₹ 27'10	-2°32'32		8355 Oct 22 06:49	0° √	
minimum elong	8354 Dec 15 04:50	26° ∡ 15'18	2°30'30	evening max el	8355 Oct 30 23:54	9° ≯ 55'13	27°10'08
morning rise	8354 Dec 21 22:48	21° ∡ °14'36		retrograde	8355 Nov 13 21:04	17° ∡ 06'35	
asc. node	8354 Dec 22 18:35	20° ∡ 59'46		evening set	8355 Nov 20 21:33	14° ₹ 54'51	
direct	8354 Dec 24 06:52	20° ∡ ¹48'55		min. Earth dist.	8355 Nov 24 14:38	12° ⊀ 11′02	
morning max el	8354 Dec 30 22:14	24° ∡ 13'55	17°47'48	inferior conj	8355 Nov 27 17:00	9° ∡ ³30′19	-3°42'21
	8355 Jan 04 14:26	5°0		minimum elong	8355 Nov 27 23:49	9° х 15′33	3°40'01
morning set	8355 Jan 16 02:03	19° る 05'13		morning rise	8355 Dec 05 04:24	4° ₰ ³37'06	
	8355 Jan 22 09:05	0° ≈		direct	8355 Dec 07 09:28	4° ₰ 17'09	
desc. node	8355 Jan 26 10:40	6° ≈ 53'18		asc. node	8355 Dec 09 15:37	4° ≯ 38'45	
				morning max el	8355 Dec 14 13:19	7° ∡ 52'46	17°56'48
superior conj	8355 Jan 28 01:19	9° ≈ 34'26	-0°11'47		8355 Dec 28 20:13	0°ಕ	

morning set	8355 Dec 30 05:09	2° පි 30'52			8356 Dec 19 22:43	0°ප	
superior conj	8356 Jan 09 12:35	21° る 05'49	0°27'55	superior conj	8356 Dec 21 22:19	3° ჳ 41'16	0°59'11
minimum elong	8356 Jan 09 14:51	21° る 15'45	0°27'45	minimum elong	8356 Dec 22 01:43	3° る 56'55	0°58'54
desc. node	8356 Jan 13 07:38	27° る 37'58		max. Earth dist.	8356 Dec 29 10:18	17° る 03'53	1.40519 AU
	8356 Jan 14 17:16	0° ≈		desc. node	8356 Dec 30 04:37	18° る 22'31	
max. Earth dist.	8356 Jan 17 01:20	3°≈53'26	1.42534 AU	evening rise	8357 Jan 02 19:25	24° る 27'33	
evening rise	8356 Jan 23 02:46	13° ≈ 41′00		C	8357 Jan 06 05:02	0°≈	
	8356 Feb 02 18:32	0° ℋ			8357 Jan 26 14:47	0° ∀	
evening max el	8356 Feb 24 16:59	29°) 00'01	22°15'24	evening max el	8357 Feb 06 07:59	12°) (43′48	23°35'21
	8356 Feb 25 17:30	0 ° $\mathbf{\gamma}$		retrograde	8357 Feb 17 01:20	19°) €03'31	
retrograde	8356 Mar 05 07:11	4° Ƴ 40'59		asc. node	8357 Feb 21 11:42	17° ₩ 28'04	
asc. node	8356 Mar 06 14:37	4° Ƴ 32'17		evening set	8357 Feb 22 03:56	16° ¥ 55'56	
evening set	8356 Mar 09 21:48	2° Y 48'08		min. Earth dist.	8357 Feb 27 00:12	11° ₩ 16'51	0.68321 AU
	8356 Mar 12 14:07	30° ₹ ₩		inferior conj	8357 Feb 27 14:12	10°) €28'54	1°53'07
inferior conj	8356 Mar 15 05:47	26° ∺ 26′52	2°30'02	minimum elong	8357 Feb 27 12:04	10°) 36′12	1°52'28
minimum elong	8356 Mar 15 03:32	26° ∺ 34'41	2°29'27	morning rise	8357 Mar 04 20:12	4° ∺ 24'14	
min. Earth dist.	8356 Mar 15 03:34	26°) 34′37	0.68425 AU	direct	8357 Mar 09 00:31	2°) 46′15	
morning rise	8356 Mar 20 09:07	20° 升 16′33		morning max el	8357 Mar 17 05:37	7° ∺ 28'10	20°48'25
direct	8356 Mar 25 03:12	18° ∺ 16′01		desc. node	8357 Mar 28 04:20	21° ℋ 05'29	
morning max el	8356 Apr 03 12:09	23°) 45′48	22°09'31		8357 Apr 03 09:01	0 ° $\mathbf{\Upsilon}$	
	8356 Apr 09 00:06	$0^{\circ}\mathbf{\Upsilon}$		morning set	8357 Apr 16 01:45	19° Y 15′12	
desc. node	8356 Apr 10 07:24	1° Y 38′29			8357 Apr 22 20:39	0°8	
	8356 Apr 30 01:23	0°8		max. Earth dist.	8357 Apr 24 07:14	2° 8 19'41	1.43072 AU
morning set	8356 May 06 16:57	10° 8 30'59					
max. Earth dist.	8356 May 12 02:05	19° 8 22'46	1.41091 AU	superior conj	8357 May 01 03:22	13° 8 37'54	
	8356 May 18 06:29	Π $^{\circ}0$		minimum elong	8357 May 01 07:17	13° 8 54'22	2°07'15
	00.563.6 10.00.40	2011 40140	1040104		8357 May 10 14:36	0°II	
superior conj	8356 May 19 20:40	2° I I48'40		evening rise	8357 May 13 02:22	4° Ⅱ 24'50	
minimum elong	8356 May 20 02:30	3° Ⅱ 14'40	1°47'58	asc. node	8357 May 20 10:33	17° Ⅱ 16'45	
evening rise	8356 May 30 07:02	21° II 55'34			8357 May 29 05:52	0°©	10005121
asc. node	8356 Jun 02 13:31 8356 Jun 03 15:54	27°∏59'26 0° ©		evening max el	8357 May 29 21:47	0°540'54	18 05 21
avanina may al	8356 Jun 15 09:49	17° 9 38'23	18°16'29	retrograde	8357 Jun 05 11:23 8357 Jun 08 02:13	4°503'23 3°530'57	
evening max el retrograde	8356 Jun 22 14:14	21°9514'56	18 10 29	evening set	8357 Jun 13 01:50	3 €30 37 30°R∏	
evening set	8356 Jun 24 21:38	21 \$1430 20°\$53'22		inferior conj	8357 Jun 14 15:21	28° Ⅱ 29'40	2°29'05
inferior conj	8356 Jul 02 03:21	16° © 12'09	1°28'06	minimum elong	8357 Jun 14 13:21 8357 Jun 14 18:18	28° H 29'40	
minimum elong	8356 Jul 02 05:59	16°906'30	1°27'03	min. Earth dist.	8357 Jun 17 18:24	25° II 25'53	0.61282 AU
min. Earth dist.	8356 Jul 05 12:45	13° © 19'47	0.59035 AU	morning rise	8357 Jun 21 08:07	22° I I30'10	0.01202710
desc. node	8356 Jul 07 06:49	11° © 59'19	0.09000110	desc. node	8357 Jun 24 03:52	20° Ⅲ 59'07	
morning rise	8356 Jul 09 11:12	10°935'24		direct	8357 Jun 28 00:08	20° Ⅱ 14'11	
direct	8356 Jul 15 17:36	8°548'52		morning max el	8357 Jul 12 06:07	28° Ⅱ 14′04	27°54'43
morning max el	8356 Jul 30 02:36	16° © 36'35	27°26'01	Č	8357 Jul 13 23:08	0°99	
C	8356 Aug 10 02:51	$0^{\circ}\Omega$			8357 Aug 03 22:24	$0^{\circ}\Omega$	
	8356 Aug 27 12:24	0° m		morning set	8357 Aug 14 09:41	19° Ω 56'51	
asc. node	8356 Aug 29 12:58	4° ™ 08'58		asc. node	8357 Aug 16 09:55	24° Ω 08'19	
morning set	8356 Aug 30 06:28	5° Mp 40'26			8357 Aug 19 03:37	0° m	
				max. Earth dist.	8357 Aug 20 05:19	2°Mp 19'54	1.31893 AU
superior conj	8356 Sep 06 07:58	21°M 02'29	1°12'03				
minimum elong	8356 Sep 06 05:43	20° m 49'59	1°11'41	superior conj	8357 Aug 21 18:24	5°Mp43'15	0°52'12
max. Earth dist.	8356 Sep 05 20:43	20° m, 00'03	1.31645 AU	minimum elong	8357 Aug 21 16:22	5° Mp 32′03	0°51'44
	8356 Sep 10 09:10	0∘ ರ		evening rise	8357 Aug 28 13:01	20° Mp33'42	
evening rise	8356 Sep 13 02:13	5° ≙ 52'02			8357 Sep 02 02:05	0∘ ⊽	
	8356 Sep 25 16:38	0°M		desc. node	8357 Sep 20 02:42	28° £ 41'08	
desc. node	8356 Oct 03 05:37	11°M25'56			8357 Sep 21 06:54	0°M	
evening max el	8356 Oct 11 23:38	21°M34'55	26°17'05	evening max el	8357 Sep 23 15:10	2°M23'47	24°55'15
retrograde	8356 Oct 25 21:39	28°M39'49		retrograde	8357 Oct 07 11:30	9°M22'26	
evening set	8356 Nov 01 11:00	26°M55'39	0.50071 411	evening set	8357 Oct 13 00:45	8°M12'57	0.57014 411
min. Earth dist.	8356 Nov 05 12:49	24°M21'08	0.58971 AU	min. Earth dist.	8357 Oct 18 02:28	5°M29'28	0.57014 AU
inferior conj	8356 Nov 08 17:09	21°M 57'43		inferior conj	8357 Oct 20 21:30	3°M39'54 3°M33'40	
minimum elong	8356 Nov 09 00:16	21°M44'17 17°M26'48	4 43 30	minimum elong	8357 Oct 21 01:17	3°II⊾33′40 30°Ŗ <u>Ω</u>	5 2/10
morning rise direct	8356 Nov 16 15:51 8356 Nov 18 21:59	17°1162648		morning rise	8357 Oct 27 14:14 8357 Oct 29 04:06	30° ₹ 31'52	
asc. node	8356 Nov 18 21:39 8356 Nov 25 12:36	17°11609'22		direct	8357 Oct 29 04:06 8357 Oct 31 16:09	29° £ 31'32 29° £ 14'08	
morning max el	8356 Nov 26 22:33	21°M04'11	18°25'43	uncet	8357 Nov 04 13:33	29 2 14 08 0° M	
morning max ci	8356 Dec 03 17:58	21 11€0411 0° √	10 23 73	morning max el	8357 Nov 04 13:33 8357 Nov 09 22:22	3°M38'03	19°16'16
morning set	8356 Dec 12 21:11	16° ₹ 32'06		asc. node	8357 Nov 09 22:22 8357 Nov 12 09:34	6°M16'52	1, 1010
	3300 300 12 21.11	10 7 32 00		use. 110de	335, 110, 12 07.3T	5 1101032	

	8357 Nov 26 10:37	0° ∡ 7			8358 Nov 03 02:37	0°M	
morning set	8357 Nov 26 10:37 8357 Nov 26 22:01	0° х 756'43		morning set	8358 Nov 11 04:37	15°M36'04	
morning sec	0337 1107 20 22.01	0 7 30 13		morning sec	8358 Nov 18 04:06	0° ∡ 7	
superior conj	8357 Dec 05 01:26	17° ∡ 06'06	1°21'19		03201101 10 01.00	• • •	
minimum elong	8357 Dec 05 04:24	17° ∡ 20′29	1°21'10	superior conj	8358 Nov 18 17:13	1° х 06'45	1°34'54
max. Earth dist.	8357 Dec 11 15:59	29° х 31'36	1.38344 AU	minimum elong	8358 Nov 18 19:02	1° ҂ 15'57	1°34'55
	8357 Dec 11 22:15	0°⋜		max. Earth dist.	8358 Nov 23 23:06	11° ∡ ³30′20	1.36268 AU
evening rise	8357 Dec 15 09:59	6° ප 12'01		evening rise	8358 Nov 27 20:20	18° ҂ 49′02	
desc. node	8357 Dec 17 01:37	9° ප 03'11		desc. node	8358 Dec 03 22:38	29° ∡ ³35'44	
	8357 Dec 30 04:34	0° ≈			8358 Dec 04 04:21	0° ろ	
evening max el	8358 Jan 19 21:12	26°≈30'27	24°53'32		8358 Dec 24 08:35	0° ≈	
Č	8358 Jan 23 20:03	0° ∀		evening max el	8359 Jan 02 10:15	10°≈17'08	26°02'50
retrograde	8358 Jan 31 15:42	3°) €21'29		retrograde	8359 Jan 15 01:14	17° ≈ 28'11	
evening set	8358 Feb 06 06:51	1°) 00′50		evening set	8359 Jan 21 04:50	14° ≈ 57'36	
<i>8</i>	8358 Feb 07 09:04	30° R ≈		min. Earth dist.	8359 Jan 25 10:37	10° ≈ 27'27	0.66928 AU
asc. node	8358 Feb 08 08:46	28°≈56'48		asc. node	8359 Jan 26 05:52	9° ≈ 27'49	
min. Earth dist.	8358 Feb 10 19:17	25°≈56'12	0.67813 AU	inferior conj	8359 Jan 26 23:31	8°≈32'39	0°14'41
inferior conj	8358 Feb 11 20:46	24° ≈ 32'13	1°07'52	minimum elong	8359 Jan 26 23:08	8° ≈ 33'51	0°14'41
minimum elong	8358 Feb 11 19:14	24° ≈ 37'17	1°07'24	transit middle	8359 Jan 26 23:08	8° ≈ 33'51	0°14'41
morning rise	8358 Feb 17 07:52	18° ≈ 34'44		transit begin	8359 Jan 26 21:58	8° ≈ 37'30	
direct	8358 Feb 20 23:24	17°≈18'20		transit end	8359 Jan 27 00:18	8° ≈ 30'12	
morning max el	8358 Feb 28 06:59	21° ≈ 23'08	19°40'04	morning rise	8359 Feb 01 18:04	2°≈44'07	
8	8358 Mar 07 09:54	0°) €	-,	direct	8359 Feb 04 22:17	1°≈46'36	
greatest brilliancy	8358 Mar 13 00:32	7° ¥ 59'33	-0.7m	morning max el	8359 Feb 11 15:46	5°≈26'28	18°47'00
desc. node	8358 Mar 15 01:16	10°) 59′54			8359 Mar 01 03:17	0° ∀	
morning set	8358 Mar 25 23:17	27°) 35'30		desc. node	8359 Mar 01 22:10	1°) 13'41	
	8358 Mar 27 12:45	0°Υ		morning set	8359 Mar 05 09:42	6°) (40'15	
max. Earth dist.	8358 Apr 06 19:16	16° Y 03'31	1.44554 AU		8359 Mar 20 07:36	0°Υ	
	r			max. Earth dist.	8359 Mar 20 12:07	0° Υ 17'41	1.45381 AU
superior conj	8358 Apr 11 09:23	23° Y 23'19	-2°11'10				
minimum elong	8358 Apr 11 07:24	23° Ƴ 15'18		superior conj	8359 Mar 21 19:28	2° Y 20'36	-1°55'16
	8358 Apr 15 11:09	0°8		minimum elong	8359 Mar 21 11:03	1° Ƴ 47'34	
evening rise	8358 Apr 25 02:03	16° 8 01'11		evening rise	8359 Apr 06 02:24	26° Ƴ 38'14	
<i>8</i> 11	8358 May 03 10:09	0°II		<i>3</i> - 1	8359 Apr 08 04:27	0°8	
asc. node	8358 May 07 07:38	6° Ⅱ 08'09		greatest brilliancy	8359 Apr 12 17:02	7° 8 17'10	-0.9m
evening max el	8358 May 13 11:09	14° Ⅱ 01'41	18°13'09	asc. node	8359 Apr 24 04:43	24° 8 24'40	
retrograde	8358 May 19 20:20	17° Ⅱ 24'33		evening max el	8359 Apr 26 23:03	27° 8 33'11	18°39'12
evening set	8358 May 22 18:24	16° Ⅱ 39'22			8359 Apr 29 22:24	0°II	
inferior conj	8358 May 28 19:00	11° Ⅱ 19'43	3°05'08	retrograde	8359 May 03 12:52	1° Ⅱ 09'31	
minimum elong	8358 May 28 21:00	11° Ⅱ 14′08	3°04'41	evening set	8359 May 06 18:19	0° Ⅱ 10′20	
min. Earth dist.	8358 May 31 09:23	8° Ⅱ 27'08	0.63434 AU	<u>8</u>	8359 May 07 00:53	30° ₹ 8	
morning rise	8358 Jun 03 22:13	5° Ⅱ 07'36		inferior conj	8359 May 12 10:13	24° 8 33'53	3°21'17
direct	8358 Jun 10 16:22	2° ∏ 30'19		minimum elong	8359 May 12 10:54	24° 8 31'49	3°21'07
desc. node	8358 Jun 11 00:54	2° Ⅲ 30'44		min. Earth dist.	8359 May 14 09:29	22° 8 10'01	0.65289 AU
morning max el	8358 Jun 24 14:29	10° Ⅲ 33'05	27°45'15	morning rise	8359 May 18 02:44	18° 8 16'34	
5 5	8358 Jul 09 20:45	0ಂತಾ		direct	8359 May 24 16:25	15° 8 29'58	
	8358 Jul 27 07:19	$0^{\circ}\Omega$		desc. node	8359 May 28 21:54	16° 8 28'06	
morning set	8358 Jul 29 06:00	3° £ 50′21		morning max el	8359 Jun 07 00:45	23° 8 22'57	27°02'18
asc. node	8358 Aug 03 06:54	14° Ω 13'06		<i>5</i> 42	8359 Jun 12 21:51	0°II	. •
max. Earth dist.	8358 Aug 03 08:13		1.32614 AU		8359 Jul 03 04:47	0ಂತಾ	
		00001		morning set	8359 Jul 12 16:32	17° © 12'58	
superior conj	8358 Aug 06 01:42	20° Ω 10′29	0°27'57	max. Earth dist.	8359 Jul 17 01:48	25°952'53	1.33825 AU
minimum elong	8358 Aug 06 00:24	20° Ω 03'31			8359 Jul 19 02:07	$0^{\circ}\Omega$	
	8358 Aug 10 14:16	0° m/					
evening rise	8358 Aug 13 00:38	5° Mp 14'15		superior conj	8359 Jul 21 03:44	4° Ω 18'25	-0°00'04
e vennig 1190	8358 Aug 26 03:44	0∘ ʊ		minimum elong	8359 Jul 21 03:45		0°00'14
evening max el	8358 Sep 05 02:23		23°17'36	behind sun begin	8359 Jul 20 22:07	3° Ω 48'58	
desc. node	8358 Sep 06 23:48	14° £ 23'09	- /	behind sun end	8359 Jul 21 09:22	4° Ω 48'00	
retrograde	8358 Sep 18 13:20	19° £ 23'40		asc. node	8359 Jul 21 03:55	4° Ω 19'20	
evening set	8358 Sep 22 15:15	19 — 23 4 0 18° — 47'16		evening rise	8359 Jul 28 11:13	19° Ω 48'19	
min. Earth dist.	8358 Sep 29 11:49		0.55493 AU	O TOTALIS TISC	8359 Aug 02 11:19	0°M)	
inferior conj	8358 Oct 01 06:02	13 = 3023		evening max el	8359 Aug 17 17:53	22° m 58'13	21°40'45
minimum elong	8358 Oct 01 00:02 8358 Oct 01 02:41	14° ⊆ 34'34		desc. node	8359 Aug 24 20:54	28° Mp 00'52	2: TO TJ
morning rise	8358 Oct 01 02:41 8358 Oct 09 16:13	14 ≥ 3930	5 50 17	retrograde	8359 Aug 30 04:04	28 m/00 32 29° m/08'04	
direct	8358 Oct 19 10:13 8358 Oct 12 14:54	10° ⊆ 4309		evening set	8359 Sep 01 20:32	29 m/08 04 28° m/51'45	
morning max el	8358 Oct 12 14.54 8358 Oct 23 09:52		20°29'14	inferior conj	8359 Sep 01 20:52 8359 Sep 11 00:53	24° m 53'03	_4°30'11
asc. node	8358 Oct 23 09:32 8358 Oct 30 06:34	13 ≗ 23 40 23° £ 47'22	40 49 1 4	minimum elong	8359 Sep 10 15:44	24 11/33 03 25° My 05'50	
450. HOUC	3330 001 30 00.34	23 -7/22		minimum ciong	5557 Sep 10 15.44	20 yri 02 30	т 5/07

min. Earth dist.	8359 Sep 10 20:26	24° m 50'15	0.54727 AU	evening set	8360 Aug 11 15:39	8° m 59'26	
morning rise	8359 Sep 10 20:20 8359 Sep 19 12:02	24 m/3913 21°m/03'16	0.54727 AO	inferior conj	8360 Aug 20 18:47	5°Mp01'38	3°00'04
direct	8359 Sep 13 12:02 8359 Sep 23 01:06	20° mp 35'49		minimum elong	8360 Aug 20 10:43	5° mg 13'27	
morning max el	8359 Oct 05 08:37	26° m/25'03	22°02'22	min. Earth dist.	8360 Aug 22 06:21	4° Mp 09'28	0.54905 AU
morning max or	8359 Oct 08 18:22	0° ⊡	22 02 22	morning rise	8360 Aug 29 04:52	0° Mp 53'26	0.5 15 05 110
asc. node	8359 Oct 17 03:33	12° ჲ 06'13		direct	8360 Sep 02 11:15	0° Mp 14'13	
	8359 Oct 26 10:11	0°M		morning max el	8360 Sep 15 22:39	6° m) 47'48	23°47'32
morning set	8359 Oct 26 14:45	0°M23'57		5 5	8360 Oct 02 11:22	0∘ <u>⊽</u>	
C				asc. node	8360 Oct 03 00:32	1° ഫ 00'58	
superior conj	8359 Nov 02 17:57	15°M32'20	1°40'52	morning set	8360 Oct 10 02:24	15° ≏ 13'44	
minimum elong	8359 Nov 02 18:26	15°M34'53	1°40'59		8360 Oct 16 22:10	0° M	
max. Earth dist.	8359 Nov 06 12:53	23°M23'59	1.34488 AU				
	8359 Nov 09 20:10	0° ∡ ¹		superior conj	8360 Oct 17 00:33	0°M12'52	1°40'09
evening rise	8359 Nov 10 22:45	2° ₹ 09'09		minimum elong	8360 Oct 16 23:50	0°M08'59	1°40'13
desc. node	8359 Nov 20 19:41	19° ∡ 55′27		max. Earth dist.	8360 Oct 19 11:06	5°M27'34	1.33110 AU
	8359 Nov 27 03:01	5°0		evening rise	8360 Oct 24 13:17	16°M00'53	
evening max el	8359 Dec 15 23:37	23° る 57'50	26°55'47		8360 Oct 31 21:40	0°⊀	
	8359 Dec 24 02:50	0° ≈		desc. node	8360 Nov 06 16:46	9° ₰ 55'09	
retrograde	8359 Dec 29 05:07	1° ≈ 17′10			8360 Nov 20 18:24	0°ಕ	
	8360 Jan 02 21:39	30°Ŗる		evening max el	8360 Nov 27 12:09	7° る 20'14	27°25'19
evening set	8360 Jan 04 19:59	28° る 41'30		retrograde	8360 Dec 11 02:29	14° る 39'26	
min. Earth dist.	8360 Jan 08 19:55	24° る 45'39	0.65687 AU	evening set	8360 Dec 18 01:50	12° る 05'26	
inferior conj	8360 Jan 10 20:23	22° る 26'06		min. Earth dist.	8360 Dec 21 20:48	8° る 42'23	0.64105 AU
minimum elong	8360 Jan 10 21:42	22° る 22'18	0°45'03	inferior conj	8360 Dec 24 08:49	6° る 05'46	
asc. node	8360 Jan 13 02:55	19° る 55'04		minimum elong	8360 Dec 24 12:18	5° る 56'38	1°50'45
morning rise	8360 Jan 17 00:33	16° පි 49'01		asc. node	8360 Dec 29 23:59	10円13101	
direct	8360 Jan 19 19:18	16° පි 06'46		morning rise	8360 Dec 31 00:26	0° る 43'14	
morning max el	8360 Jan 26 06:06	19° る 32'57	18°10'25	direct	8361 Jan 02 11:48	0° る 12'29	
	8360 Feb 03 05:57	0° ≈		morning max el	8361 Jan 08 23:14	3°₹35'01	17°51'00
morning set	8360 Feb 14 00:19	17°≈11'18		morning set	8361 Jan 25 19:16	29° る 05'30	
desc. node	8360 Feb 16 19:07	21°≈41'42			8361 Jan 26 08:06	0° ≈	
	8360 Feb 21 23:11	0° ∀		desc. node	8361 Feb 02 16:05	12° ≈ 19′08	
superior conj	8360 Feb 29 01:03	11°) 12'49	1°20'58	superior conj	8361 Feb 07 20:59	20° ≈ 50'25	0°37'11
minimum elong	8360 Feb 28 16:06	10° H 37'39		minimum elong	8361 Feb 07 20:39 8361 Feb 07 16:48	20 ≈30 23 20°≈33'28	0°36'28
max. Earth dist.	8360 Mar 02 07:38	14°) (37'39	1.45478 AU	max. Earth dist.	8361 Feb 17 10:48 8361 Feb 13 03:07	20 ≈3328 29°≈15'11	1.44832 AU
max. Lartii dist.	8360 Mar 12 01:44	0°Υ	1.43470710	max. Earth dist.	8361 Feb 13 14:26	0° ∀	1.44032 710
evening rise	8360 Mar 16 04:28	6°Υ23'53		evening rise	8361 Feb 23 17:02	15°) 43′56	
greatest brilliancy	8360 Mar 28 07:57	25°Υ08'00	-0.7m	evening rise	8361 Mar 05 02:49	0°Υ	
greatest stimuley	8360 Mar 31 14:37	0°8	0.7111	evening max el	8361 Mar 23 10:12	24° Υ 48'44	20°20'37
evening max el	8360 Apr 09 07:14		19°22'19	asc. node	8361 Mar 27 22:55	28° Y 27'13	
asc. node	8360 Apr 10 01:50	11° 8 55'24		retrograde	8361 Mar 31 08:10	29° Y 25'17	
retrograde	8360 Apr 16 09:40	15° 8 11'33		evening set	8361 Apr 04 06:29	27° Y 56'08	
evening set	8360 Apr 19 23:06	13° 8 57'33		inferior conj	8361 Apr 09 14:16	21° Y 50'43	3°09'53
inferior conj	8360 Apr 25 09:35	8° 8 05'43	3°21'51	minimum elong	8361 Apr 09 12:45	21° Y 55'55	3°09'36
minimum elong	8360 Apr 25 09:00	8° 8 07'35	3°21'43	min. Earth dist.	8361 Apr 10 08:02	20° Y 50'06	0.67736 AU
min. Earth dist.	8360 Apr 26 17:37	6° 8 21'13	0.66737 AU	morning rise	8361 Apr 14 18:48	15° Ƴ 34'27	
morning rise	8360 Apr 30 18:33	1° 8 47'42		direct	8361 Apr 20 10:38	13° Y '03'06	
	8360 May 03 06:59	30° ₹Ƴ		desc. node	8361 May 01 15:52	19° Ƴ 41'46	
direct	8360 May 06 22:51	29° Ƴ 03'54		morning max el	8361 May 01 20:01	19° Ƴ 52'12	24°29'54
	8360 May 10 22:10	0°8			8361 May 10 11:18	0°8	
desc. node	8360 May 14 18:54	2° 8 21'48			8361 May 30 18:16	Π °0	
morning max el	8360 May 19 10:46	6° 8 32'04	25°53'56	morning set	8361 Jun 06 16:03	11° Ⅱ 41′18	
	8360 Jun 06 14:28	$\Pi^{\circ}0$		max. Earth dist.	8361 Jun 10 07:20	18° Ⅱ 09'56	1.37578 AU
morning set	8360 Jun 24 13:30	29° Ⅱ 54'09			8361 Jun 16 15:17	0 \circ \odot	
	8360 Jun 24 14:46	0ಂ ತಾ				_	
max. Earth dist.	8360 Jun 28 08:40	7° © 02'33	1.35514 AU	superior conj	8361 Jun 17 05:00	1° 5 506'08	
				minimum elong	8361 Jun 17 08:53	1°524'55	1°02'18
superior conj	8360 Jul 03 21:55	17°959'41		asc. node	8361 Jun 23 21:57	14°5519'40	
minimum elong	8360 Jul 03 23:44	18°908'52	0°30'41	evening rise	8361 Jun 25 20:29	18° © 11'35	
asc. node	8360 Jul 07 00:56	24°\$22'46			8361 Jul 01 23:31	0° Ω	1001 407
	8360 Jul 09 18:13	0° Ω		evening max el	8361 Jul 12 12:54	15° Ω 23'16	19~14'07
evening rise	8360 Jul 11 18:39	4° Ω 09'40		retrograde	8361 Jul 21 16:16	19° Ω 54'26	
avanir 1	8360 Jul 26 12:17	0°∭0 2°™ 48!22	20017122	evening set	8361 Jul 23 13:28	19° Ω 43'43	
evening max el	8360 Jul 29 20:49	3° Mp 48'22	20°17'32	desc. node	8361 Jul 28 15:07	17° Ω 43'36	1002127
retrograde desc. node	8360 Aug 09 16:33 8360 Aug 10 18:01	9° ሙ 09'13 9° ሙ 06'19		inferior conj minimum elong	8361 Aug 01 01:55 8361 Jul 31 23:07	15° Ω 33'23 15° Ω 38'03	
acsc. Hour	0500 Aug 10 18.01	פו טטעוו פ		minimum ciong	0501 Jul 31 23.0/	15 063003	1 04 47

min. Earth dist.	8361 Aug 03 19:34	13° Ω 44'21	0.56003 AU	inferior conj	8362 Jul 13 05:51	26° © 45'55	0°40'16
morning rise	8361 Aug 09 05:54	10° Ω 50'46		minimum elong	8362 Jul 13 07:18	26°5943'06	0°39'34
direct	8361 Aug 14 07:58	9° Ω 51'24		desc. node	8362 Jul 15 12:11	24° © 59'30	
morning max el	8361 Aug 28 11:22	17° Ω 02'04	25°29'54	min. Earth dist.	8362 Jul 16 13:55	24°\$510'42	0.57804 AU
	8361 Sep 08 02:27	0° m)		morning rise	8362 Jul 20 22:01	21° © 26'27	
asc. node	8361 Sep 19 21:31	20° m 22'40		direct	8362 Jul 26 19:19	19° © 58'06	
morning set	8361 Sep 24 13:53	0° Ω 00'54		morning max el	8362 Aug 10 04:30	27°536'00	26°52'37
morning set	*	0° ⊽		morning max ci	•	0°Ω	20 32 37
	8361 Sep 24 13:42	0 ==			8362 Aug 12 12:29		
					8362 Sep 01 15:31	0° m)	
superior conj	8361 Oct 01 10:42	15° ≏ 01'30		asc. node	8362 Sep 06 18:28	10° m 03'34	
minimum elong	8361 Oct 01 09:04	14° ≏ 52'33	1°33'22	morning set	8362 Sep 08 23:33	14° Mp 40'22	
max. Earth dist.	8361 Oct 02 16:25	17° ≏ 44'53	1.32180 AU				
	8361 Oct 08 09:37	0° M		superior conj	8362 Sep 15 22:24	29° m 51'54	1°21'20
evening rise	8361 Oct 08 12:41	0° ™ 15'52		minimum elong	8362 Sep 15 20:15	29° m 39'58	1°21'03
desc. node	8361 Oct 24 13:51	29°M26'37			8362 Sep 15 23:51	0∘ ত	
	8361 Oct 24 22:28	0° ∡ ¹		max. Earth dist.	8362 Sep 16 01:46	0° Ω 10'34	1.31703 AU
evening max el	8361 Nov 09 21:33	20° √ 10'57	27°25'08	evening rise	8362 Sep 22 18:15	14° £ 46'33	
retrograde	8361 Nov 23 16:49	27° 🖈 25'56	27 23 00	evening rise	8362 Sep 30 09:22	0°M	
•				4 4-	•		
evening set	8361 Nov 30 19:18	25° 🗷 02'40	0.60000.177	desc. node	8362 Oct 11 10:57	18°M18'43	
min. Earth dist.	8361 Dec 04 11:32	22° ₹ 07'28	0.62228 AU		8362 Oct 20 18:01	0° ∡	
inferior conj	8361 Dec 07 09:48	19° ≯ 24'10		evening max el	8362 Oct 23 01:21	2° ≯ 18'31	26°51'32
minimum elong	8361 Dec 07 15:35	19° ∡ 10'43	3°00'09	retrograde	8362 Nov 05 23:16	9° ∡¹ 27'55	
morning rise	8361 Dec 14 14:01	14° ⋌ ¹19'38		evening set	8362 Nov 12 20:27	7° ∡ ¹26'23	
direct	8361 Dec 16 20:30	13° ∡ ¹56'44		min. Earth dist.	8362 Nov 16 15:37	4° ∡ ¹48'41	0.60162 AU
asc. node	8361 Dec 16 21:01	13° ∡ 56'44		inferior conj	8362 Nov 19 20:02	2° ∡ 12'54	-4°10'36
morning max el	8361 Dec 23 16:03	17° ∡ ¹24'47	17°49'22	minimum elong	8362 Nov 20 03:18	1° ∡ 758'03	4°08'23
	8362 Jan 01 15:35	0°る			8362 Nov 22 16:17	30°RM₊	
morning set	8362 Jan 08 12:26	00 12° る 02'53		morning rise	8362 Nov 27 12:35	27°M29'18	
morning set	8362 Jan 18 18:04	0° ≈		direct	8362 Nov 27 12:33 8362 Nov 29 17:27	27°M10'54	
	0302 Jan 10 10.04	0 ~					
				asc. node	8362 Dec 03 18:02	28°M15'30	
superior conj	8362 Jan 19 17:36	1° ≈ 39'59	0°05'59		8362 Dec 06 05:49	0° ∡	
minimum elong	8362 Jan 19 18:11	1° ≈ 42'27	0°06'03	morning max el	8362 Dec 07 05:10	0° ≯ 53'34	18°06'39
behind sun begin	8362 Jan 19 09:58	1° ≈ 07'36		morning set	8362 Dec 22 21:37	25° ∡ ¹45′09	
behind sun end	8362 Jan 20 02:23	2°≈17'12			8362 Dec 25 04:05	8°0	
desc. node	8362 Jan 20 13:01	3°≈02'04					
max. Earth dist.	8362 Jan 26 19:18	13° ≈ 22'47	1.43521 AU	superior conj	8363 Jan 01 15:03	13° る 40'37	0°42'18
evening rise	8362 Feb 03 06:48	25°≈14'38		minimum elong	8363 Jan 01 18:03	13° る 54'02	0°42'01
evening rise	8362 Feb 06 08:46	0° ∀		desc. node	8363 Jan 07 10:00	23° る 47'12	0 .201
	8362 Feb 27 03:39	0° Υ			8363 Jan 09 06:26		1.41702 AU
		8° Υ 28'04	21°31'03	max. Earth dist.			1.41/02 AU
evening max el	8362 Mar 06 07:33		21°31'03		8363 Jan 11 02:50	0°≈	
asc. node	8362 Mar 14 20:00	13° Y 44'44		evening rise	8363 Jan 14 11:28	5°≈28'52	
retrograde	8362 Mar 15 06:18	13° Y 45'40			8363 Jan 30 14:41	0° ∀	
evening set	8362 Mar 19 14:36	12° Ƴ 01'19		evening max el	8363 Feb 17 00:20	22° ℋ 09'56	22°49'12
inferior conj	8362 Mar 24 21:57	5° Ƴ 44'46	2°47'20	retrograde	8363 Feb 27 02:25	28°) €08'45	
minimum elong	8362 Mar 24 19:51	5° Y 52'04	2°46'50	asc. node	8363 Mar 01 17:05	27°) 34′38	
min. Earth dist.	8362 Mar 25 02:42	5° Y 28′15	0.68293 AU	evening set	8363 Mar 03 21:55	26°) €09'36	
	8362 Mar 29 12:45	30° ₹		inferior conj	8363 Mar 09 06:40	19° ¥ 45'10	2°15'27
morning rise	8362 Mar 30 00:56	29°) 31'47		minimum elong	8363 Mar 09 04:25	19° ¥ 53'00	2°14'49
direct	8362 Apr 04 02:56	27°) € 19'08		min. Earth dist.	8363 Mar 08 23:22	20°) 10′29	0.68425 AU
uncet	8362 Apr 10 12:29	0°Υ		morning rise	8363 Mar 14 10:48	13°) (36'51	0.00 123 710
	-	3° Υ 19'10	23°00'06	direct		13 X 30 31	
morning max el	8362 Apr 14 05:53		23 00 00		8363 Mar 18 22:52		21022141
desc. node	8362 Apr 18 12:49	8° ℃ 03'43		morning max el	8363 Mar 27 19:34	16°) 54'58	21°33'41
	8362 May 04 14:07	0°8		desc. node	8363 Apr 05 09:44	27°) 10′49	
morning set	8362 May 18 18:34	22° 8 19'23			8363 Apr 07 11:47	0 ° Υ	
max. Earth dist.	8362 May 23 03:35	29° 8 43'23	1.39822 AU		8363 Apr 27 15:57	9° 8	
	8362 May 23 07:27	Π $^{\circ}0$		morning set	8363 Apr 28 17:34	1° 8 41'22	
				max. Earth dist.	8363 May 05 03:59	12° 8 06'22	1.41980 AU
superior conj	8362 May 30 20:53	13° Ⅱ 26′59	-1°33'10		-		
minimum elong	8362 May 31 02:26	13° Ⅲ 52'30		superior conj	8363 May 12 17:00	24° 8 52'37	-1°57'50
	8362 Jun 08 15:40	0°95		minimum elong	8363 May 12 17:00 8363 May 12 22:29	25° 8 16'26	
evening rise	8362 Jun 09 13:35	1°9544'50		mmmum clong	8363 May 15 15:08	0°II	1 5/35
evening rise				avanisi-			
asc. node	8362 Jun 10 18:58	4°505'02	10021120	evening rise	8363 May 23 18:09	14° Ⅱ 40′23	
evening max el	8362 Jun 25 15:41	27° © 39'20	18°31'39	asc. node	8363 May 28 15:59	23° Ⅲ 34'15	
	8362 Jun 28 13:14	0 $^{\circ}$ Ω			8363 Jun 01 09:29	0ಂ ತಾ	
retrograde	8362 Jul 03 10:12	1° Ω 31'34		evening max el	8363 Jun 09 01:27	10° © 28'09	18°09'23
evening set	8362 Jul 05 13:04	1° Ω 15′11		retrograde	8363 Jun 15 22:14	13° © 56'42	
	8362 Jul 08 14:08	30° ₹ 5		evening set	8363 Jun 18 08:47	13° © 30'53	

inferior conj	8363 Jun 25 07:02	8° 5 41'19	1°57'17	minimum elong	8364 Jun 07 04:52	21° I I06'55	2°46'23
minimum elong	8363 Jun 25 10:02	8°934'29	1°56'13	min. Earth dist.	8364 Jun 10 00:27	18° Ⅱ 12'19	0.62229 AU
min. Earth dist.	8363 Jun 28 15:01	5°540'46	0.59990 AU	morning rise	8364 Jun 13 12:58	15° Ⅱ 08'11	
morning rise	8363 Jul 02 08:23	2°553'26		desc. node	8364 Jun 18 06:16	12° ∏ 54'37	
desc. node direct	8363 Jul 02 09:14 8363 Jul 08 19:57	2° © 52'08 0° © 53'19		direct	8364 Jun 20 07:01 8364 Jul 04 09:53	12° П 41'42 20° П 43'30	27055107
morning max el	8363 Jul 08 19:57 8363 Jul 23 04:13	8°947'57	27942150	morning max el	8364 Jul 12 09:46	20°Щ43′30 0° ©	27-33-07
morning max er	8363 Aug 08 09:38	0°Ω	27 42 30		8364 Jul 31 10:28	0°Ω	
morning set	8363 Aug 24 05:42	29° Ω 06'51		morning set	8364 Aug 07 06:19	13° Ω 14'44	
asc. node	8363 Aug 24 15:25	29° Ω 57'40		asc. node	8364 Aug 10 12:23	20° Ω 00'08	
use. Houe	8363 Aug 24 15:51	0° m)		max. Earth dist.	8364 Aug 12 18:16	24°Ω48'21	1.32142 AU
max. Earth dist.	8363 Aug 30 11:38		1.31688 AU				
		•		superior conj	8364 Aug 14 19:15	29° Ω 14'32	0°42'26
superior conj	8363 Aug 31 09:50	14° m 38'06	1°04'12	minimum elong	8364 Aug 14 17:27	29° Ω 04'46	0°41'59
minimum elong	8363 Aug 31 07:37	14° m 25'48	1°03'46	C	8364 Aug 15 03:33	0° m)	
evening rise	8363 Sep 07 03:44	29° Mp 26'11		evening rise	8364 Aug 21 15:11	14° m 08'51	
	8363 Sep 07 10:04	0∘ 亚			8364 Aug 29 12:10	0∘ ⊽	
	8363 Sep 23 19:32	0° M		desc. node	8364 Sep 14 05:09	22° ≏ 54'58	
desc. node	8363 Sep 28 08:03	6°M15'21		evening max el	8364 Sep 15 10:46	24° ≏ 08'54	24°14'46
evening max el	8363 Oct 04 21:34	13°M35'56	25°45'19		8364 Sep 23 23:08	0° M	
retrograde	8363 Oct 18 19:53	20° M 38′54		retrograde	8364 Sep 29 04:23	1°M02'04	
evening set	8363 Oct 25 00:18	19° M 09'14		evening set	8364 Oct 04 03:29	0°M07'48	
min. Earth dist.	8363 Oct 29 10:06	16° ™ 33'00	0.58096 AU		8364 Oct 04 12:02	30° ₹ Ω	
inferior conj	8363 Nov 01 12:03	14°M22'01		min. Earth dist.	8364 Oct 09 21:35	27° ≏ 14'40	0.56297 AU
minimum elong	8363 Nov 01 18:18	14°M10'53	5°05'39	inferior conj	8364 Oct 12 07:48	25° ≏ 44'25	
morning rise	8363 Nov 09 14:37	10°M00'55		minimum elong	8364 Oct 12 08:52	25° Ω 42'47	5°34'45
direct	8363 Nov 11 22:26	9°M43'49		morning rise	8364 Oct 20 16:20	21° Ω 44'20	
morning max el	8363 Nov 20 10:52	13°M50'18	18°44'29	direct	8364 Oct 23 08:32	21° £ 25'28	10044121
asc. node	8363 Nov 20 15:02	14°M00'26		morning max el	8364 Nov 02 05:39	26° Ω 05'10	19°44'31
	8363 Dec 01 12:27	0°×7.		1-	8364 Nov 05 18:28	0°M	
morning set	8363 Dec 06 17:50	9° ∡ 57'22		asc. node	8364 Nov 06 12:02	0°M56'57 24°M29'27	
superior conj	8363 Dec 15 08:47	26° ₹ 38'30	1°09'40	morning set	8364 Nov 19 21:29 8364 Nov 22 14:39	24 1162927 0° x 7	
minimum elong	8363 Dec 15 08:47 8363 Dec 15 12:08	26° ₹ 58'30' 26° ₹ 54'17	1°09'25		6304 NOV 22 14.39	0 X	
minimum ciong	8363 Dec 17 12:08 8363 Dec 17 03:51	20 × 3417 0°る	1 0723	superior conj	8364 Nov 27 17:50	10° √ 19'54	1°28'03
max. Earth dist.	8363 Dec 17 03:31 8363 Dec 22 13:18	9° ਰ 45'21	1.39595 AU	minimum elong	8364 Nov 27 20:22	10°×1334	1°27'59
desc. node	8363 Dec 25 06:59	14° る 30'28		max. Earth dist.	8364 Dec 03 19:17	21° × 59'31	1.37443 AU
evening rise	8363 Dec 26 13:33	16° る 40'27		evening rise	8364 Dec 07 13:01	28° х 48′28	
C	8364 Jan 03 18:23	0° ≈		C	8364 Dec 08 05:07	0° ට	
	8364 Jan 25 05:17	0°) €		desc. node	8364 Dec 11 04:00	5° පි 08'10	
evening max el	8364 Jan 30 14:27	5°) 55′14	24°09'19		8364 Dec 27 02:48	0° ≈	
retrograde	8364 Feb 10 19:06	12°) €29'31		evening max el	8365 Jan 12 03:40	19° ≈ 42'51	25°24'33
evening set	8364 Feb 16 02:52	10°) 16′24		retrograde	8365 Jan 24 07:20	26° ≈ 42'58	
asc. node	8364 Feb 16 14:10	9° 升 51′20		evening set	8365 Jan 30 03:53	24° ≈ 17'49	
min. Earth dist.	8364 Feb 20 19:44	4° ∺ 51'41	0.68151 AU	asc. node	8365 Feb 02 11:16	20° ≈ 49'48	
inferior conj	8364 Feb 21 14:33	3°) 48′09	1°34'56	min. Earth dist.	8365 Feb 03 13:29	19° ≈ 27'51	0.67487 AU
minimum elong	8364 Feb 21 12:36	3°) € 54'42	1°34'20	inferior conj	8365 Feb 04 19:44	17°≈50'21	0°46'16
	8364 Feb 24 14:12	30°R≈		minimum elong	8365 Feb 04 18:37	17°≈53'57	0°45'57
morning rise	8364 Feb 26 22:23	27°≈46'04		morning rise	8365 Feb 10 09:43	11°≈56'22	
direct	8364 Mar 01 21:09	26°≈17'19		direct	8365 Feb 13 20:21	10°≈48'13	10015120
	8364 Mar 08 22:42	0°) 0°) {42'06	20017121	morning max el	8365 Feb 20 20:47	14° ≈ 40'30 0°) €	19°15'30
morning max el desc. node	8364 Mar 09 16:10 8364 Mar 22 06:39	16° X 50'21	20°17'31	greatest brilliancy	8365 Mar 04 13:42 8365 Mar 05 23:39	0 X 2° X 06'31	-0.7m
desc. node	8364 Mar 31 04:01	0° Υ		desc. node	8365 Mar 09 03:35	6°\(\frac{1}{53'28}\)	-0.7III
morning set	8364 Apr 06 18:51	10° Υ 07'01		morning set	8365 Mar 16 19:00	18° X 33'28	
max. Earth dist.	8364 Apr 16 11:56	25°Υ23'50	1.43776 AU	morning set	8365 Mar 24 02:47	0°Υ	
max. Dartii dist.	8364 Apr 19 08:22	0°8	1.13770110	max. Earth dist.	8365 Mar 30 02:47	9° Υ 24'02	1.44996 AU
	-r	. •					
superior conj	8364 Apr 22 13:19	5° 8 14'52	-2°11'08	superior conj	8365 Apr 02 09:35	14° Y 35'43	-2°06'57
minimum elong	8364 Apr 22 15:09	5° 8 22'28		minimum elong	8365 Apr 02 04:30	14° Y 15'33	
evening rise	8364 May 05 05:41	26° 8 48'06		3	8365 Apr 11 23:08	0°8	
-	8364 May 07 01:49	0°Ⅲ		evening rise	8365 Apr 16 19:40	7° 8 59'04	
asc. node	8364 May 14 13:03	12° Ⅱ 41'34		-	8365 Apr 30 12:00	$\Pi^{\circ}0$	
evening max el	8364 May 22 14:31	23° Ⅱ 40′13	18°06'26	asc. node	8365 May 01 10:08	1° Ⅱ 19′05	
retrograde	8364 May 29 00:52	27° Ⅱ 00'46		evening max el	8365 May 06 03:36	7° Ⅱ 06'17	18°22'03
evening set	8364 May 31 18:54	26° Ⅱ 22'59		retrograde	8365 May 12 13:33	10° Ⅲ 33'12	
inferior conj	8364 Jun 07 02:13	21° Ⅱ 13'49	2°47'06	evening set	8365 May 15 14:50	9° Ⅱ 41'59	

inferior conj	8365 May 21 11:15	4° Ⅱ 14'48	3°14'09	greatest brilliancy	8366 Apr 06 16:58	2° 8 52'48	-0.8m
minimum elong	8365 May 21 12:42	4° Ⅱ 10'34	3°13'50	asc. node	8366 Apr 18 07:14	19° 8 17'46	0.0111
min. Earth dist.	8365 May 23 19:13	1° Ⅱ 33'04	0.64267 AU	evening max el	8366 Apr 19 14:07	20° 8 40'27	18°55'30
	8365 May 25 05:42	30° ₹ 8		retrograde	8366 Apr 26 08:27	24° 8 26'30	
morning rise	8365 May 27 09:34	27° 8 59'56		evening set	8366 Apr 29 17:10	23° 8 21'04	
direct	8365 Jun 03 02:29	25° 8 17'30		inferior conj	8366 May 05 06:21	17° 8 37'36	3°23'15
desc. node	8365 Jun 05 03:17	25° 8 30'53		minimum elong	8366 May 05 06:29	17° 8 37'13	3°23'07
	8365 Jun 13 06:04	$\Pi^{\circ}0$		min. Earth dist.	8366 May 06 22:59	15° 8 29'43	0.65951 AU
morning max el	8365 Jun 16 19:23	3° Ⅱ 16′55	27°30'46	morning rise	8366 May 10 19:16	11° 8 19'24	
	8365 Jul 06 19:46	0°50		direct	8366 May 17 05:16	8° 8 32'54	
morning set	8365 Jul 21 22:52	26° © 56'02		desc. node	8366 May 23 00:16	10° 8 21'41	
	8365 Jul 23 11:53	$0^{\circ}\Omega$		morning max el	8366 May 30 06:03	16° 8 17'32	26°35'54
max. Earth dist.	8365 Jul 26 17:51	6° Ω 38'40	1.33075 AU		8366 Jun 10 13:59	Π °0	
asc. node	8365 Jul 28 09:22	10° Ω 05'53			8366 Jun 29 16:20	0 \circ \odot	
				morning set	8366 Jul 05 04:11	10°902'43	
superior conj	8365 Jul 30 00:35	13° Ω 34'16	0°16'30	max. Earth dist.	8366 Jul 09 07:10	18° 5 01'42	1.34492 AU
minimum elong	8365 Jul 29 23:47	13° Ω 29'57	0°16'11				
evening rise	8365 Aug 06 02:37	28° Ω 47'35		superior conj	8366 Jul 13 23:37	27° © 31'37	-0°12'52
	8365 Aug 06 16:18	0° m		minimum elong	8366 Jul 14 00:20	27° © 35'21	0°12'53
	8365 Aug 24 00:24	0∘ ⊽		behind sun begin	8366 Jul 13 20:50	27° © 17'12	
evening max el	8365 Aug 27 22:36	4° £ 20'54	22°35'18	behind sun end	8366 Jul 14 03:51	27° © 53'31	
desc. node	8365 Sep 01 02:17	7° ≏ 48'09		asc. node	8366 Jul 15 06:23	0° Ω 11'24	
retrograde	8365 Sep 10 00:38	10° ≏ 52'32			8366 Jul 15 04:12	0 \circ Ω	
evening set	8365 Sep 13 11:26	10° ≏ 26'22		evening rise	8366 Jul 21 12:09	13° Ω 17′08	
min. Earth dist.	8365 Sep 21 05:49	6° £ 59'42	0.55067 AU		8366 Jul 30 01:52	0° Т р	
inferior conj	8365 Sep 22 09:16	6° ≏ 20'46		evening max el	8366 Aug 09 18:12	14° m)49'13	21°03'04
minimum elong	8365 Sep 22 02:49	6° Ω 29'55	5°14'46	desc. node	8366 Aug 18 23:23	20° Mp 23'30	
morning rise	8365 Sep 30 20:07	2° Ω 32'45		retrograde	8366 Aug 21 13:24	20° m/40'00	
direct	8365 Oct 04 00:47	2° Ω 09'29		evening set	8366 Aug 23 20:02	20° Mp 27'47	
morning max el	8365 Oct 15 11:28	7° Ω 31'14	21°06'44	inferior conj	8366 Sep 02 01:50	16° Mp 30'49	
asc. node	8365 Oct 24 09:02	18° Ω 49'15		minimum elong	8366 Sep 01 16:18	16° Mp 44'18	3°58'52
	8365 Oct 30 16:08	0°M		min. Earth dist.	8366 Sep 02 14:45	16° Mp 12'34	0.54684 AU
morning set	8365 Nov 04 05:53	9°M13'11		morning rise	8366 Sep 10 12:57	12° Tp 35'41	
	9265 Name 11 12.51	249 m 22112	1920117	direct	8366 Sep 14 08:44	12° Mp 04'18	22946126
superior conj	8365 Nov 11 13:51	24°M32'12		morning max el	8366 Sep 27 05:54	18° m 12'58 0° Ω	22°46'26
minimum elong	8365 Nov 11 15:06 8365 Nov 14 06:03	24°MJ38'39 0°⊀	1°38'23	asc. node	8366 Oct 06 18:39 8366 Oct 11 06:01	0 <u>≈</u> 7° ≏ 24'23	
max. Earth dist.	8365 Nov 16 05:02	3° ∡ ¹54'22	1.35468 AU		8366 Oct 19 16:50	7 = 24 23 24° £ 02'23	
evening rise	8365 Nov 20 06:40	11° х 44'33	1.55406 AU	morning set	8366 Oct 22 11:52	0°M	
desc. node	8365 Nov 28 01:04	25° × 35'50			8300 Oct 22 11.32	O IIG	
dese. Hode	8365 Nov 30 16:39	0°る		superior conj	8366 Oct 26 17:23	9°M05'13	1°41'20
	8365 Dec 22 08:32	0° ≈		minimum elong	8366 Oct 26 17:20	9°M04'56	1°41'27
evening max el	8365 Dec 25 16:51	3°≈27'48	26°27'44	max. Earth dist.	8366 Oct 29 22:09	15°M49'57	1.33844 AU
retrograde	8366 Jan 07 14:26	10° ≈ 43'18	20 27	evening rise	8366 Nov 03 14:37	25°M18'58	1.550 120
evening set	8366 Jan 13 23:14	8°≈09'37		<i>y</i>			
min. Earth dist.	8366 Jan 18 02:23	200 05 4127			8366 Nov 06 00:50	0° ∡ ¹	
inferior conj		3° ≈ 54'27	0.66446 AU	desc. node		0° × ′ 15° × ′47'48	
	8366 Jan 19 20:16	3°≈34'27 1°≈48'12		desc. node	8366 Nov 14 22:09 8366 Nov 24 03:37		
minimum elong				desc. node evening max el	8366 Nov 14 22:09	15° ∡ ¹47'48	27°11'35
·	8366 Jan 19 20:16	1° ≈ 48'12	-0°10'06		8366 Nov 14 22:09 8366 Nov 24 03:37	15° ₰ ⁴47'48 0° る	27°11'35
minimum elong	8366 Jan 19 20:16 8366 Jan 19 20:32	1°≈48'12 1°≈47'23	-0°10'06 0°09'50	evening max el	8366 Nov 14 22:09 8366 Nov 24 03:37 8366 Dec 08 05:47	15° х 47'48 0°ප 17°ප01'14	27°11'35
minimum elong transit middle	8366 Jan 19 20:16 8366 Jan 19 20:32 8366 Jan 19 20:32	1°≈48'12 1°≈47'23 1°≈47'23	-0°10'06 0°09'50	evening max el retrograde	8366 Nov 14 22:09 8366 Nov 24 03:37 8366 Dec 08 05:47 8366 Dec 21 15:46	15° 🗗 47'48 0° る 17° る01'14 24° る22'10	
minimum elong transit middle transit begin	8366 Jan 19 20:16 8366 Jan 19 20:32 8366 Jan 19 20:32 8366 Jan 19 18:15	1°≈48'12 1°≈47'23 1°≈47'23 1°≈54'19	-0°10'06 0°09'50	evening max el retrograde evening set	8366 Nov 14 22:09 8366 Nov 24 03:37 8366 Dec 08 05:47 8366 Dec 21 15:46 8366 Dec 28 10:46	15° x 47'48 0°る 17°る01'14 24°る22'10 21°る45'54	0.65049 AU
minimum elong transit middle transit begin transit end	8366 Jan 19 20:16 8366 Jan 19 20:32 8366 Jan 19 20:32 8366 Jan 19 18:15 8366 Jan 19 22:50	1°≈48'12 1°≈47'23 1°≈47'23 1°≈54'19 1°≈40'28	-0°10'06 0°09'50	evening max el retrograde evening set min. Earth dist.	8366 Nov 14 22:09 8366 Nov 24 03:37 8366 Dec 08 05:47 8366 Dec 21 15:46 8366 Dec 28 10:46 8367 Jan 01 08:17	15° \$\frac{7}{47'48} 0° පි 17° පි01'14 24° පි22'10 21° පි45'54 18° පි04'33	0.65049 AU -1°13'24
minimum elong transit middle transit begin transit end	8366 Jan 19 20:16 8366 Jan 19 20:32 8366 Jan 19 20:32 8366 Jan 19 18:15 8366 Jan 19 22:50 8366 Jan 20 08:21	1°≈48'12 1°≈47'23 1°≈47'23 1°≈54'19 1°≈40'28 1°≈11'51	-0°10'06 0°09'50	evening max el retrograde evening set min. Earth dist. inferior conj	8366 Nov 14 22:09 8366 Nov 24 03:37 8366 Dec 08 05:47 8366 Dec 21 15:46 8366 Dec 28 10:46 8367 Jan 01 08:17 8367 Jan 03 13:51	15° \$\frac{7}{47'48} 0° පි 17° පි01'14 24° පි22'10 21° පි45'54 18° පි04'33 15° පි36'18	0.65049 AU -1°13'24
minimum elong transit middle transit begin transit end asc. node	8366 Jan 19 20:16 8366 Jan 19 20:32 8366 Jan 19 20:32 8366 Jan 19 18:15 8366 Jan 19 22:50 8366 Jan 20 08:21 8366 Jan 21 08:53	1°≈48'12 1°≈47'23 1°≈47'23 1°≈54'19 1°≈40'28 1°≈11'51 30°₹♂	-0°10'06 0°09'50	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	8366 Nov 14 22:09 8366 Nov 24 03:37 8366 Dec 08 05:47 8366 Dec 21 15:46 8366 Dec 28 10:46 8367 Jan 01 08:17 8367 Jan 03 13:51 8367 Jan 03 16:03	15° \$\times 47'48 0° \times 17° \times 01'14 24° \times 22'10 21° \times 45'54 18° \times 04'33 15° \times 33'18 15° \times 330'13	0.65049 AU -1°13'24
minimum elong transit middle transit begin transit end asc. node morning rise	8366 Jan 19 20:32 8366 Jan 19 20:32 8366 Jan 19 20:32 8366 Jan 19 18:15 8366 Jan 19 22:50 8366 Jan 20 08:21 8366 Jan 21 08:53 8366 Jan 25 18:40	1°≈48'12 1°≈47'23 1°≈47'23 1°≈54'19 1°≈40'28 1°≈11'51 30°RT 26°T04'29	-0°10'06 0°09'50	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	8366 Nov 14 22:09 8366 Nov 24 03:37 8366 Dec 08 05:47 8366 Dec 21 15:46 8366 Dec 28 10:46 8367 Jan 01 08:17 8367 Jan 03 13:51 8367 Jan 03 16:03 8367 Jan 07 05:26	15° ₹47'48 0° ♂ 17° ♂01'14 24° ♂22'10 21° ♂45'54 18° ♂04'33 15° ♂36'18 15° ♂30'13 11° ♂554'22	0.65049 AU -1°13'24
minimum elong transit middle transit begin transit end asc. node morning rise direct	8366 Jan 19 20:16 8366 Jan 19 20:32 8366 Jan 19 20:32 8366 Jan 19 18:15 8366 Jan 19 22:50 8366 Jan 20 08:21 8366 Jan 21 08:53 8366 Jan 25 18:40 8366 Jan 28 18:41	1°≈48'12 1°≈47'23 1°≈47'23 1°≈54'19 1°≈40'28 1°≈11'51 30°Rる 26°る04'29 25°る13'55	-0°10'06 0°09'50 0°09'50	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	8366 Nov 14 22:09 8366 Nov 24 03:37 8366 Dec 08 05:47 8366 Dec 21 15:46 8366 Dec 28 10:46 8367 Jan 01 08:17 8367 Jan 03 13:51 8367 Jan 03 16:03 8367 Jan 07 05:26 8367 Jan 09 22:44	15° ダ47'48 0° で 17° で301'14 24° で322'10 21° で45'54 18° で36'18 15° で330'13 11° で554'22 10° で305'19	0.65049 AU -1°13'24
minimum elong transit middle transit begin transit end asc. node morning rise direct	8366 Jan 19 20:16 8366 Jan 19 20:32 8366 Jan 19 20:32 8366 Jan 19 18:15 8366 Jan 19 22:50 8366 Jan 20 08:21 8366 Jan 21 08:53 8366 Jan 25 18:40 8366 Jan 28 18:41 8366 Feb 04 08:20	1°≈48'12 1°≈47'23 1°≈47'23 1°≈54'19 1°≈40'28 1°≈11'51 30°Rउ 26°♂04'29 25°♂13'55 28°♂46'19	-0°10'06 0°09'50 0°09'50	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	8366 Nov 14 22:09 8366 Nov 24 03:37 8366 Dec 08 05:47 8366 Dec 21 15:46 8366 Dec 28 10:46 8367 Jan 01 08:17 8367 Jan 03 13:51 8367 Jan 03 16:03 8367 Jan 07 05:26 8367 Jan 09 22:44 8367 Jan 12 13:58	15° ダ47'48 0° ℧ 17° ℧01'14 24° ℧22'10 21° ℧45'54 18° ℧04'33 15° ℧30'13 11° ℧54'22 10° ℧05'19 9° ℧28'35	0.65049 AU -1°13'24 1°12'18
minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el	8366 Jan 19 20:16 8366 Jan 19 20:32 8366 Jan 19 20:32 8366 Jan 19 18:15 8366 Jan 19 22:50 8366 Jan 20 08:21 8366 Jan 21 08:53 8366 Jan 25 18:40 8366 Jan 28 18:41 8366 Feb 04 08:20 8366 Feb 05 12:31	1°≈48'12 1°≈47'23 1°≈54'19 1°≈54'19 1°≈40'28 1°≈11'51 30°Rउ 26°304'29 25°313'55 28°346'19 0°≈ 27°≈13'56 28°≈17'46	-0°10'06 0°09'50 0°09'50	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	8366 Nov 14 22:09 8366 Nov 24 03:37 8366 Dec 08 05:47 8366 Dec 21 15:46 8366 Dec 28 10:46 8367 Jan 01 08:17 8367 Jan 03 13:51 8367 Jan 03 16:03 8367 Jan 07 05:26 8367 Jan 09 22:44 8367 Jan 12 13:58 8367 Jan 19 00:17	15° 承47'48 0° で 17° で01'14 24° で22'10 21° で45'54 18° で04'33 15° で30'13 11° で54'22 10° で05'19 9° で28'35 12° で52'09	0.65049 AU -1°13'24 1°12'18
minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el	8366 Jan 19 20:16 8366 Jan 19 20:32 8366 Jan 19 20:32 8366 Jan 19 18:15 8366 Jan 19 22:50 8366 Jan 20 08:21 8366 Jan 21 08:53 8366 Jan 25 18:40 8366 Jan 28 18:41 8366 Feb 04 08:20 8366 Feb 05 12:31 8366 Feb 24 00:31	1°≈48'12 1°≈47'23 1°≈54'19 1°≈54'19 1°≈40'28 1°≈11'51 30°R♂ 26°♂04'29 25°♂13'55 28°♂46'19 0°≈ 27°≈13'56	-0°10'06 0°09'50 0°09'50	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	8366 Nov 14 22:09 8366 Nov 24 03:37 8366 Dec 08 05:47 8366 Dec 21 15:46 8366 Dec 28 10:46 8367 Jan 01 08:17 8367 Jan 03 13:51 8367 Jan 03 16:03 8367 Jan 07 05:26 8367 Jan 09 22:44 8367 Jan 12 13:58 8367 Jan 19 00:17 8367 Jan 31 02:33	15° ダ47'48 0° ℧ 17° ℧01'14 24° ℧22'10 21° ℧45'54 18° ℧04'33 15° ℧30'13 11° ℧554'22 10° ℧05'19 9° ℧28'35 12° ℧52'09 0° 総 9° 総25'35 17° 総46'18	0.65049 AU -1°13'24 1°12'18
minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el desc. node morning set	8366 Jan 19 20:16 8366 Jan 19 20:32 8366 Jan 19 20:32 8366 Jan 19 18:15 8366 Jan 19 22:50 8366 Jan 20 08:21 8366 Jan 21 08:53 8366 Jan 25 18:40 8366 Jan 28 18:41 8366 Feb 04 08:20 8366 Feb 05 12:31 8366 Feb 24 00:31 8366 Feb 24 16:37 8366 Feb 25 18:24	1°≈48'12 1°≈47'23 1°≈54'19 1°≈54'19 1°≈40'28 1°≈11'51 30°Rउ 26°उ04'29 25°उ13'55 28°उ46'19 0°≈ 27°≈13'56 28°≈17'46 0°光	-0°10'06 0°09'50 0°09'50	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	8366 Nov 14 22:09 8366 Nov 24 03:37 8366 Dec 08 05:47 8366 Dec 21 15:46 8366 Dec 28 10:46 8367 Jan 01 08:17 8367 Jan 03 13:51 8367 Jan 03 16:03 8367 Jan 07 05:26 8367 Jan 09 22:44 8367 Jan 12 13:58 8367 Jan 19 00:17 8367 Jan 31 02:33 8367 Feb 05 19:45	15° ダ47'48 0° ℧ 17° ℧01'14 24° ℧22'10 21° ℧45'54 18° ℧04'33 15° ℧30'13 11° ℧54'22 10° ℧05'19 9° ℧28'35 12° ℧52'09 0° 総 9° ※25'35	0.65049 AU -1°13'24 1°12'18
minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el desc. node morning set	8366 Jan 19 20:16 8366 Jan 19 20:32 8366 Jan 19 20:32 8366 Jan 19 18:15 8366 Jan 19 22:50 8366 Jan 20 08:21 8366 Jan 21 08:53 8366 Jan 25 18:40 8366 Jan 28 18:41 8366 Feb 04 08:20 8366 Feb 05 12:31 8366 Feb 24 00:31 8366 Feb 24 16:37 8366 Feb 25 18:24	1°≈48'12 1°≈47'23 1°≈47'23 1°≈54'19 1°≈40'28 1°≈11'51 30°R♂ 26°♂04'29 25°♂13'55 28°♂46'19 0°≈ 27°≈13'56 28°≈17'46 0°升	-0°10'06 0°09'50 0°09'50 18°29'27	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	8366 Nov 14 22:09 8366 Nov 24 03:37 8366 Dec 08 05:47 8366 Dec 21 15:46 8366 Dec 28 10:46 8367 Jan 01 08:17 8367 Jan 03 13:51 8367 Jan 03 16:03 8367 Jan 07 05:26 8367 Jan 09 22:44 8367 Jan 12 13:58 8367 Jan 19 00:17 8367 Jan 31 02:33 8367 Feb 05 19:45 8367 Feb 10 21:28 8367 Feb 18 11:11	15° ダ47'48 0° ♂ 17° ♂01'14 24° ♂22'10 21° ♂45'54 18° ♂04'33 15° ♂30'13 11° ♂554'22 10° ♂05'19 9° ♂28'35 12° ♂52'09 0° ≈ 9° ≈25'35 17° ≈446'18 0° 升	0.65049 AU -1°13'24 1°12'18 18°00'04
minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el desc. node morning set	8366 Jan 19 20:16 8366 Jan 19 20:32 8366 Jan 19 20:32 8366 Jan 19 18:15 8366 Jan 19 22:50 8366 Jan 20 08:21 8366 Jan 21 08:53 8366 Jan 25 18:40 8366 Jan 28 18:41 8366 Feb 04 08:20 8366 Feb 05 12:31 8366 Feb 24 00:31 8366 Feb 24 16:37 8366 Feb 25 18:24	1°≈48'12 1°≈47'23 1°≈47'23 1°≈54'19 1°≈40'28 1°≈11'51 30°R♂ 26°♂04'29 25°♂13'55 28°♂46'19 0°≈ 27°≈13'56 28°≈17'46 0°¥ 23°¥24'08 22°¥46'46	-0°10'06 0°09'50 0°09'50 18°29'27 -1°42'33 1°41'40	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	8366 Nov 14 22:09 8366 Nov 24 03:37 8366 Dec 08 05:47 8366 Dec 21 15:46 8366 Dec 28 10:46 8367 Jan 01 08:17 8367 Jan 03 13:51 8367 Jan 03 16:03 8367 Jan 07 05:26 8367 Jan 09 22:44 8367 Jan 12 13:58 8367 Jan 19 00:17 8367 Jan 19 00:17 8367 Feb 05 19:45 8367 Feb 10 21:28 8367 Feb 18 11:11	15° ダ47'48 0° ℧ 17° ℧01'14 24° ℧22'10 21° ℧45'54 18° ℧04'33 15° ℧30'13 11° ℧54'22 10° ℧05'19 9° ℧28'35 12° ℧52'09 0° ≫ 9° ※25'35 17° ※46'18 0° ℋ	0.65049 AU -1°13'24 1°12'18 18°00'04
minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el desc. node morning set	8366 Jan 19 20:16 8366 Jan 19 20:32 8366 Jan 19 20:32 8366 Jan 19 18:15 8366 Jan 19 22:50 8366 Jan 20 08:21 8366 Jan 21 08:53 8366 Jan 25 18:40 8366 Jan 28 18:41 8366 Feb 04 08:20 8366 Feb 05 12:31 8366 Feb 24 16:37 8366 Feb 24 16:37 8366 Feb 25 18:24	1°≈48'12 1°≈47'23 1°≈47'23 1°≈54'19 1°≈40'28 1°≈11'51 30°R♂ 26°♂04'29 25°♂13'55 28°♂46'19 0°≈ 27°≈13'56 28°≈17'46 0°¥ 23°¥24'08 22°¥46'46 23°¥48'27	-0°10'06 0°09'50 0°09'50 18°29'27	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	8366 Nov 14 22:09 8366 Nov 24 03:37 8366 Dec 08 05:47 8366 Dec 21 15:46 8366 Dec 28 10:46 8367 Jan 01 08:17 8367 Jan 03 13:51 8367 Jan 03 16:03 8367 Jan 07 05:26 8367 Jan 09 22:44 8367 Jan 12 13:58 8367 Jan 19 00:17 8367 Jan 31 02:33 8367 Feb 05 19:45 8367 Feb 10 21:28 8367 Feb 10 12:28 8367 Feb 10 11:03 8367 Feb 10 11:03	15° ダ47'48 0° ♂ 17° ♂01'14 24° ♂22'10 21° ♂45'54 18° ♂04'33 15° ♂30'13 11° ♂554'22 10° ♂05'19 9° ♂28'35 12° ♂52'09 0° ≈ 9° ≈25'35 17° ≈46'18 0° 升 2° 升30'37 2° 升30'37 2° 升01'52	0.65049 AU -1°13'24 1°12'18 18°00'04 -1°02'55 1°01'53
minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el desc. node morning set superior conj minimum elong max. Earth dist.	8366 Jan 19 20:16 8366 Jan 19 20:32 8366 Jan 19 20:32 8366 Jan 19 18:15 8366 Jan 19 22:50 8366 Jan 20 08:21 8366 Jan 21 08:53 8366 Jan 25 18:40 8366 Jan 28 18:41 8366 Feb 04 08:20 8366 Feb 05 12:31 8366 Feb 24 00:31 8366 Feb 24 16:37 8366 Feb 25 18:24 8366 Mar 12 15:21 8366 Mar 12 05:48 8366 Mar 12 21:33 8366 Mar 16 20:28	1°≈48'12 1°≈47'23 1°≈47'23 1°≈54'19 1°≈40'28 1°≈11'51 30°R♂ 26°♂04'29 25°♂13'55 28°♂46'19 0°≈ 27°≈13'56 28°≈17'46 0°¥ 23°¥24'08 22°¥46'46 23°¥48'27 0°♥	-0°10'06 0°09'50 0°09'50 18°29'27 -1°42'33 1°41'40	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	8366 Nov 14 22:09 8366 Nov 24 03:37 8366 Dec 08 05:47 8366 Dec 21 15:46 8366 Dec 28 10:46 8367 Jan 01 08:17 8367 Jan 03 13:51 8367 Jan 07 05:26 8367 Jan 09 22:44 8367 Jan 12 13:58 8367 Jan 19 00:17 8367 Jan 19 00:17 8367 Jan 31 02:33 8367 Feb 05 19:45 8367 Feb 10 21:28 8367 Feb 10 11:11	15° ダ47'48 0° ♂ 17° ♂01'14 24° ♂22'10 21° ♂45'54 18° ♂30'13 11° ♂554'22 10° ♂05'19 9° ♂28'35 12° ♂52'09 0° ≈ 9° ≈25'35 17° ≈46'18 0° 升 2° 升30'37 2° 升01'52 8° 升17'44	0.65049 AU -1°13'24 1°12'18 18°00'04
minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el desc. node morning set	8366 Jan 19 20:16 8366 Jan 19 20:32 8366 Jan 19 20:32 8366 Jan 19 18:15 8366 Jan 19 22:50 8366 Jan 20 08:21 8366 Jan 21 08:53 8366 Jan 25 18:40 8366 Jan 28 18:41 8366 Feb 04 08:20 8366 Feb 05 12:31 8366 Feb 24 16:37 8366 Feb 24 16:37 8366 Feb 25 18:24	1°≈48'12 1°≈47'23 1°≈47'23 1°≈54'19 1°≈40'28 1°≈11'51 30°R♂ 26°♂04'29 25°♂13'55 28°♂46'19 0°≈ 27°≈13'56 28°≈17'46 0°¥ 23°¥24'08 22°¥46'46 23°¥48'27	-0°10'06 0°09'50 0°09'50 18°29'27 -1°42'33 1°41'40	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	8366 Nov 14 22:09 8366 Nov 24 03:37 8366 Dec 08 05:47 8366 Dec 21 15:46 8366 Dec 28 10:46 8367 Jan 01 08:17 8367 Jan 03 13:51 8367 Jan 03 16:03 8367 Jan 07 05:26 8367 Jan 09 22:44 8367 Jan 12 13:58 8367 Jan 19 00:17 8367 Jan 19 00:17 8367 Feb 05 19:45 8367 Feb 10 21:28 8367 Feb 10 12:28 8367 Feb 10 11:11	15° ダ47'48 0° ♂ 17° ♂01'14 24° ♂22'10 21° ♂45'54 18° ♂04'33 15° ♂30'13 11° ♂554'22 10° ♂05'19 9° ♂28'35 12° ♂52'09 0° ≈ 9° ≈25'35 17° ≈46'18 0° 升 2° 升30'37 2° 升30'37 2° 升01'52	0.65049 AU -1°13'24 1°12'18 18°00'04 -1°02'55 1°01'53

greatest brilliancy	8367 Mar 22 03:13	18° Ƴ 54'23	-0.7m	minimum elong	8368 Jan 31 05:01	12° ≈ 29'46	0°17'55
,	8367 Mar 30 02:28	0°8		max. Earth dist.	8368 Feb 06 10:52	22° ≈ 37'31	1.44351 AU
evening max el	8367 Apr 02 20:05	4° 8 17'43	19°45'25		8368 Feb 11 02:52	0° ∀	
asc. node	8367 Apr 05 04:21	6° 8 25'01		evening rise	8368 Feb 15 15:57	7° ℋ 02'57	
retrograde	8367 Apr 10 06:18	8° 8 33'38		•	8368 Mar 02 00:08	0° Υ	
evening set	8367 Apr 13 23:16	7° 8 13'24		evening max el	8368 Mar 15 20:40	17° Ƴ 56'46	20°49'22
inferior conj	8367 Apr 19 08:18	1° 8 15'31	3°18'10	asc. node	8368 Mar 22 01:25	22° Y 26'53	
minimum elong	8367 Apr 19 07:16	1° 8 18'55	3°17'59	retrograde	8368 Mar 24 04:46	22° Y 50′13	
	8367 Apr 20 06:54	30° ₹Ƴ		evening set	8368 Mar 28 07:07	21° Y 14'48	
min. Earth dist.	8367 Apr 20 10:10	29° Ƴ 49'10	0.67212 AU	inferior conj	8368 Apr 02 14:30	15° Ƴ 04'31	3°01'29
morning rise	8367 Apr 24 14:59	24° Y 57'43		minimum elong	8368 Apr 02 12:41	15° Ƴ 10'48	3°01'07
direct	8367 Apr 30 14:10	22° Y 18'05		min. Earth dist.	8368 Apr 03 02:41	14° Ƴ 22'29	0.68031 AU
desc. node	8367 May 09 21:14	26° Y 54'55		morning rise	8368 Apr 07 18:01	8° Y 49'24	
morning max el	8367 May 12 15:45	29° Ƴ 32'11	25°19'29	direct	8368 Apr 13 04:10	6° Y 25′07	
	8367 May 13 02:36	0°8		morning max el	8368 Apr 24 00:41	12° Y 54'11	23°51'41
	8367 Jun 04 10:21	$\Pi^{\circ}0$		desc. node	8368 Apr 25 18:11	14° Y 43′18	
morning set	8367 Jun 17 17:59	22° Ⅱ 22'45			8368 May 07 19:09	$8^{\circ 0}$	
max. Earth dist.	8367 Jun 21 09:37	29° Ⅱ 05'13	1.36348 AU		8368 May 27 06:35	$\Pi^{\circ}0$	
	8367 Jun 21 21:17	0ංම		morning set	8368 May 29 10:54	3° Ⅱ 41'40	
				max. Earth dist.	8368 Jun 02 05:52	10° Ⅱ 17'40	1.38522 AU
superior conj	8367 Jun 27 13:29	10° © 58'55					
minimum elong	8367 Jun 27 16:10	11° © 12'16	0°44'04	superior conj	8368 Jun 09 14:37	23° Ⅱ 47'08	
asc. node	8367 Jul 02 03:25	20° © 12'31		minimum elong	8368 Jun 09 19:20	24° Ⅱ 09'23	1°15'32
evening rise	8367 Jul 05 17:30	27° © 30'47			8368 Jun 12 20:34	0°©	
	8367 Jul 06 23:03	$0^{\circ}\Omega$		asc. node	8368 Jun 18 00:25	10°504'53	
evening max el	8367 Jul 23 02:53	25° Ω 58′28	19°48'05	evening rise	8368 Jun 18 15:58	11°521'02	
	8367 Jul 28 18:14	0° m)			8368 Jun 28 21:47	0°Ω	
retrograde	8367 Aug 02 05:16	0° m 57'24		evening max el	8368 Jul 05 00:02	7° £ 52'05	18°53'37
evening set	8367 Aug 04 01:52	0° Mp 48'01		retrograde	8368 Jul 13 11:53	12° Ω 04'29	
desc. node	8367 Aug 05 20:26	0° m/22'38		evening set	8368 Jul 15 11:11	11° Ω 51'46	
	8367 Aug 06 22:30	30°R Ω	2010141	desc. node	8368 Jul 22 17:30	8° Ω 12'47	0017140
inferior conj	8367 Aug 12 23:59	26° Ω 46'33 26° Ω 55'45		inferior conj	8368 Jul 23 15:27	7° Ω 34'05 7° Ω 35'19	
minimum elong	8367 Aug 12 18:01	26°8€35'45 25° Ω 29'16		minimum elong	8368 Jul 23 14:45	5°Ω23'24	
min. Earth dist.	8367 Aug 15 02:17 8367 Aug 21 08:09	$23^{\circ} 0.29^{\circ} 16$ $22^{\circ} \Omega 24'32$	0.55264 AU	min. Earth dist.	8368 Jul 26 17:22 8368 Jul 31 15:01	2°Ω35'37	0.56699 AU
morning rise direct	8367 Aug 25 22:39	$21^{\circ} \Omega 37'45$		morning rise direct	8368 Aug 06 01:54	1° Ω 24'31	
morning max el	8367 Sep 08 18:33	21° Ω 23/43 28° Ω 29'10	24°32'21	morning max el	8368 Aug 20 08:22	8° Ω 47'51	26°08'22
morning max cr	8367 Sep 08 18:33 8367 Sep 10 07:19	0° m)	24 32 21	morning max ci	8368 Sep 05 07:05	0°M)	20 08 22
asc. node	8367 Sep 10 07:19 8367 Sep 28 02:59	26° Mp 31'53		asc. node	8368 Sep 13 23:56	16° Mp 02'38	
asc. node	8367 Sep 29 21:35	0° ⊽		morning set	8368 Sep 17 15:30	23° Mp 36'30	
morning set	8367 Oct 04 04:36	ა — 8° ჲ 52'01		morning set	8368 Sep 20 14:27	ე∘ 亞	
morning set	0507 001 04 04.50	0 =3201			0300 Бер 20 14.27	~ —	
superior conj	8367 Oct 11 01:47	23° ♀ 50'45	1°38'01	superior conj	8368 Sep 24 12:49	8° ≏ 40'59	1°28'58
minimum elong	8367 Oct 11 00:39	23° Ω 44'30	1°38'01	minimum elong	8368 Sep 24 10:55	8° £ 30′28	1°28'47
max. Earth dist.	8367 Oct 12 23:29	27° ≙ 59'08	1.32655 AU	max. Earth dist.	8368 Sep 25 06:59	10° ≙ 21'28	1.31924 AU
	8367 Oct 13 21:56	0° M .		evening rise	8368 Oct 01 11:39	23° - 45′22	
evening rise	8367 Oct 18 09:19	9°M22'23		C	8368 Oct 04 12:48	0° M	
Č	8367 Oct 29 09:41	0° ∡ ¹		desc. node	8368 Oct 18 16:18	24°M53'31	
desc. node	8367 Nov 01 19:13	5° ∡ ³37'05			8368 Oct 22 04:38	0° ∡ ¹	
evening max el	8367 Nov 20 17:18	0° る 12'28	27°29'13	evening max el	8368 Nov 02 00:54	12° ∡ ¹47'10	27°15'06
	8367 Nov 20 12:04	ರ°0		retrograde	8368 Nov 15 21:31	19° ∡ 59′07	
retrograde	8367 Dec 04 10:34	7° る 30'50		evening set	8368 Nov 22 22:51	17° ∡ ¹44′08	
evening set	8367 Dec 11 11:49	5° ರ 00'15		min. Earth dist.	8368 Nov 26 15:34	14° ₰ 757'40	0.61368 AU
min. Earth dist.	8367 Dec 15 05:13	1° る 49'41	0.63334 AU	inferior conj	8368 Nov 29 16:59	12° ∡ 15'57	-3°32'00
	8367 Dec 17 01:24	30°R ✓		minimum elong	8368 Nov 29 23:34	12° 渘 01'24	3°29'39
inferior conj	8367 Dec 17 21:50	29° ∡ 08'37	-2°21'52	morning rise	8368 Dec 07 02:32	7° ∡ 19'34	
minimum elong	8367 Dec 18 02:18	28° ₹ 57'25	2°19'57	direct	8368 Dec 09 07:53	6° ∡ ¹58'56	
morning rise	8367 Dec 24 18:44	23° ∡ ′53'14		asc. node	8368 Dec 10 23:27	7° ∡ 10'41	
asc. node	8367 Dec 25 02:26	23° ∡ ⁴46'31		morning max el	8368 Dec 16 09:16	10° ∡ 32'13	17°54'14
direct	8367 Dec 27 03:33	23° х 26′21			8368 Dec 29 05:43	0°ಕ	
morning max el	8368 Jan 02 17:41	26° ₹ 50'34	17°48'01	morning set	8369 Jan 01 01:43	5° පි 08'26	
	8368 Jan 05 12:02	0° ठ					
morning set	8368 Jan 19 01:01	21° る 49'33		superior conj	8369 Jan 11 14:28	23° る 58'27	0°22'25
_	8368 Jan 23 18:40	0° ≈		minimum elong	8369 Jan 11 16:22	24° ろ 06'43	0°22'16
desc. node	8368 Jan 28 18:27	8° ≈ 26'46		desc. node	8369 Jan 14 15:26	29° る 11'08	
	0260 1 21 25 7	100 0=::=	0010121	w 4 2	8369 Jan 15 02:59	0° ≈	1 40000 : **
superior conj	8368 Jan 31 06:57	12° ≈ 37'47	-0~18/21	max. Earth dist.	8369 Jan 19 01:18	6° ≈ 32'44	1.42808 AU

	02/01 25 10 40	1.60 - 40142		1 1	0270 1 01 12 24	100755150	
evening rise	8369 Jan 25 10:48	16°≈49'42		desc. node	8370 Jan 01 12:24	19°る55'50	
	8369 Feb 03 00:44	0°) €		evening rise	8370 Jan 06 00:10	27° る 27'14	
	8369 Feb 25 02:56	0° Υ			8370 Jan 07 13:38	0° ≈	
evening max el	8369 Feb 26 16:02	1° Y 37'41	22°03'41		8370 Jan 27 16:08	0° ∀	
retrograde	8369 Mar 08 02:04	7° Ƴ 12'27		evening max el	8370 Feb 09 07:24	15° ¥ 20'47	23°23'24
asc. node	8369 Mar 08 22:28	7° Ƴ 08'47		retrograde	8370 Feb 19 20:50	21°) ₹35′26	
evening set	8369 Mar 12 15:05	5° Y 21'43		asc. node	8370 Feb 23 19:33	20° ₩ 19'02	
	8369 Mar 17 06:02	30° ₹ ₩		evening set	8370 Feb 24 21:35	19° ∺ 29'54	
inferior conj	8369 Mar 17 22:51	29°) €01'38	2°34'52	inferior conj	8370 Mar 02 07:25	13°) €03'20	1°59'17
minimum elong	8369 Mar 17 20:38	29°) 09'21	2°34'19	minimum elong	8370 Mar 02 05:14	13° ¥ 10′50	1°58'38
min. Earth dist.	8369 Mar 17 22:23	29° ₩ 03'14	0.68407 AU	min. Earth dist.	8370 Mar 01 19:05	13° ¥ 45'41	0.68359 AU
morning rise	8369 Mar 23 02:01	22°) 50'40		morning rise	8370 Mar 07 12:51	6°) €57'45	
direct	8369 Mar 27 22:09	20°) (46'57		direct	8370 Mar 11 19:07	5° ¥ 16'32	
morning max el	8369 Apr 06 11:39	26°) 24'16	2202227	morning max el	8370 Mar 20 04:07	10° ₩ 05'12	20°59'48
morning max cr	8369 Apr 09 18:59	20 χ24 10 0° Υ	22 2221	desc. node	8370 Mar 30 12:05	22°) (48'30	20 37 40
desc. node	8369 Apr 12 15:09	3° Υ 26'19		desc. node	8370 Apr 04 13:46	22 γ (48 30	
desc. node	-	0° 8			•	22° Y 40'29	
	8369 May 01 08:19			morning set	8370 Apr 19 13:59		
morning set	8369 May 10 01:47	13° 8 47'11			8370 Apr 24 05:03	0°8	
max. Earth dist.	8369 May 15 03:40	22° 8 12'23	1.40771 AU	max. Earth dist.	8370 Apr 27 07:40	5° 8 01'13	1.42804 AU
	8369 May 19 16:30	$\Pi^{\circ}0$					
				superior conj	8370 May 04 09:02	16° 8 45'11	
superior conj	8369 May 22 22:43	5° Ⅱ 46'17	-1°44'38	minimum elong	8370 May 04 13:29	17° 8 04'07	2°05'09
minimum elong	8369 May 23 04:34	6° Ⅱ 12'30	1°44'10		8370 May 12 00:12	Π $^{\circ}$ 0	
evening rise	8369 Jun 02 04:16	24° ∏ 39'49		evening rise	8370 May 16 02:12	7° Ⅱ 16'30	
asc. node	8369 Jun 04 21:26	29° Ⅱ 44'16		asc. node	8370 May 22 18:29	19° Ⅱ 04'59	
	8369 Jun 05 00:50	0°ಲಾ			8370 May 29 19:31	0°ම	
evening max el	8369 Jun 18 06:16	20°\$23'26	18°19'46	evening max el	8370 Jun 01 17:46	3°522'36	18°05'45
retrograde	8369 Jun 25 13:58	24° © 03'38		retrograde	8370 Jun 08 08:57	6° © 46'19	
evening set	8369 Jun 27 20:10	23°543'30		evening set	8370 Jun 10 22:38	6°9515'43	
inferior conj	8369 Jul 05 04:39	19° © 05'15	1°16'24	inferior conj	8370 Jun 17 14:00	1°917'24	2°21'31
minimum elong	8369 Jul 05 07:04	19° © 00'13	1°15'25	minimum elong	8370 Jun 17 17:01	1°910'05	2°20'34
min. Earth dist.	8369 Jul 08 14:04	16°916'41	0.58706 AU	minimum clong	8370 Jun 18 21:48	1 ⊙ 10 03	2 20 34
			0.38700 AU	i. Darda diat		•	0.60950 AU
desc. node	8369 Jul 09 14:33	15°529'41		min. Earth dist.	8370 Jun 20 18:34		0.60930 AU
morning rise	8369 Jul 12 14:43	13° © 32'41		morning rise	8370 Jun 24 08:56	25° Ⅱ 20'26	
direct	8369 Jul 18 18:55	11° © 50'59		desc. node	8370 Jun 26 11:36	24° Ⅱ 09'34	
morning max el	8369 Aug 02 04:10	19° © 36'16	27°18'33	direct	8370 Jun 30 23:59	23° Ⅱ 08'19	
	8369 Aug 11 00:39	$0^{\circ}\Omega$			8370 Jul 14 02:57	0 \circ	
	8369 Aug 28 23:54	0° m p		morning max el	8370 Jul 15 06:51	1° 5 07'21	27°52'52
asc. node	8369 Aug 31 20:55	5° m 50'04			8370 Aug 05 06:01	$0^{\circ}\Omega$	
morning set	8369 Sep 01 23:54	8° m)11'10		morning set	8370 Aug 17 03:59	22° Ω 30′19	
max. Earth dist.	8369 Sep 08 17:12	22° Mp 49'06	1.31645 AU	asc. node	8370 Aug 18 17:53	25° Ω 48'11	
	<u>.</u>				8370 Aug 20 17:10	0° m)	
superior conj	8369 Sep 09 00:36	23° m 30'11	1°14'40	max. Earth dist.	8370 Aug 23 02:15	-	1.31821 AU
minimum elong	8369 Sep 08 22:22	23° m 17'45	1°14'18	max. Dartii dist.	0370 Hug 23 02.13	3 Ing TO I I	1.51021710
minimum clong	8369 Sep 11 22:57	ე∘ ი	1 1410	superior conj	8370 Aug 24 11:23	8° Mp 12'23	0°55'30
	-				8370 Aug 24 11:23 8370 Aug 24 09:17	-	0°55'03
evening rise	8369 Sep 15 19:09	8° Ω 20'45		minimum elong	0	8° Mp 00'48	0-55/05
	8369 Sep 26 22:54	0°M		evening rise	8370 Aug 31 05:41	23° m 01'52	
desc. node	8369 Oct 05 13:22	13°M24'12	26026150		8370 Sep 03 13:27	0° ™	
evening max el	8369 Oct 15 01:42	24°M33'47	26°26'59		8370 Sep 21 17:31	0° M ₊	
	8369 Oct 22 11:55	0°⊀		desc. node	8370 Sep 22 10:28	0°M51'05	
retrograde	8369 Oct 28 23:37	1° ∡ ³39'46		evening max el	8370 Sep 26 18:20	5°M29'38	25°08'56
	8369 Nov 04 08:22	30°RM₊		retrograde	8370 Oct 10 15:31	12°M29'56	
evening set	8369 Nov 04 15:29	29°M50'44		evening set	8370 Oct 16 09:04	11°ML15'06	
min. Earth dist.	8369 Nov 08 15:06	27°M16'03	0.59280 AU	min. Earth dist.	8370 Oct 21 05:55	8°M34'09	0.57278 AU
inferior conj	8369 Nov 11 19:50	24°M48'51	-4°36'41	inferior conj	8370 Oct 24 03:17	6°ML38'27	-5°23'19
minimum elong	8369 Nov 12 03:06	24°M34'52	4°34'48	minimum elong	8370 Oct 24 07:53	6°MJ30'45	5°22'43
morning rise	8369 Nov 19 17:03	20°M14'41		morning rise	8370 Nov 01 09:01	2°M27'15	
direct	8369 Nov 21 22:45	19°M57'05		direct	8370 Nov 03 19:42	2°M27'13	
asc. node	8369 Nov 27 20:28	22°M07'29		morning max el	8370 Nov 12 21:10	6°M28'58	19°07'20
		23°M48'17	18°20'05			8°M25'05	17 0/20
morning max el	8369 Nov 29 19:37		10 2003	asc. node	8370 Nov 14 17:30		
•	8369 Dec 04 20:02	0° √			8370 Nov 27 21:51	0° ⊀ 7	
morning set	8369 Dec 15 16:04	19° ∡ *04'55		morning set	8370 Nov 29 15:52	3° ∡ ¹27'03	
	8369 Dec 21 10:04	0°る				=	
		_		superior conj	8370 Dec 07 22:04	19° ∡ ⁴44'07 –	1°18'30
superior conj	8369 Dec 24 21:09	6° る 25'10	0°55'02	minimum elong	8370 Dec 08 01:10	19° ₹ 59'01	1°18'20
minimum elong	8369 Dec 25 00:30	6° る 40'29	0°54'44		8370 Dec 13 09:13	0° ප	
max. Earth dist.	8370 Jan 01 10:50	19° る 49'09	1.40832 AU	max. Earth dist.	8370 Dec 14 16:41	2° る 22'42	1.38665 AU

evening rise	8370 Dec 18 11:37	9° ප 03'56		evening rise	8371 Nov 30 19:19	21° х 34'02	
desc. node	8370 Dec 19 09:24	10° る 37'39		evening rise	8371 Dec 05 13:38	0°ਰ	
dese. Hode	8370 Dec 31 10:27	0°≈		desc. node	8371 Dec 06 06:26	ਾਰ 1°ਰ11'53	
evening max el	8371 Jan 22 20:47		24°42'16	desc. node	8371 Dec 25 07:42	0°≈	
evening max er	8371 Jan 23 18:36	0° ∀	21 1210	evening max el	8372 Jan 05 09:54	12°≈54'49	25°53'22
retrograde	8371 Feb 03 11:55	5°) 54'34		retrograde	8372 Jan 17 22:13	20°≈03'24	23 33 22
evening set	8371 Feb 09 01:06	3°) ₹35'48		evening set	8372 Jan 23 23:57	17°≈34'13	
asc. node	8371 Feb 10 16:39	2° \ 00'01		min. Earth dist.	8372 Jan 28 06:45	17 ≈5413 12°≈58'49	0.67088 AU
asc. Houe	8371 Feb 10 10:39 8371 Feb 12 09:31			asc. node	8372 Jan 28 13:45		0.07088 AU
: E 4 E 4		30°R≈	0.67012 ATT			12°≈36'59	0022110
min. Earth dist.	8371 Feb 13 14:39	28°≈25'54	0.67913 AU	inferior conj	8372 Jan 29 17:53	11°≈08′23	0°23'18
inferior conj	8371 Feb 14 14:24	27°≈07'01	1°15'18	minimum elong	8372 Jan 29 17:17	11°≈10′16	0°23'12
minimum elong	8371 Feb 14 12:44	27°≈12'31	1°14'46	morning rise	8372 Feb 04 11:10	5°≈18'15	
morning rise	8371 Feb 20 00:34	21°≈08′12		direct	8372 Feb 07 17:00	4° ≈ 18′03	
direct	8371 Feb 23 17:54	19° ≈ 48'44		morning max el	8372 Feb 14 12:02	8° ≈ 00'47	18°53'48
morning max el	8371 Mar 03 04:17	23°≈58'28	19°49'15		8372 Mar 01 09:51	0° ∀	
	8371 Mar 08 08:56	0° ℋ		desc. node	8372 Mar 03 05:58	2° 升 50'46	
greatest brilliancy	8371 Mar 16 01:59	10°) 45′14	-0.6m	morning set	8372 Mar 07 18:49	9° 升 54'10	
desc. node	8371 Mar 17 09:02	12°) 39′24			8372 Mar 20 15:44	$0^{\circ}\mathbf{\Upsilon}$	
	8371 Mar 28 20:08	0 ° $\mathbf{\Upsilon}$		max. Earth dist.	8372 Mar 22 10:45	2° Ƴ 48'35	1.45308 AU
morning set	8371 Mar 29 11:40	0° Υ 59'48					
max. Earth dist.	8371 Apr 09 18:29	18° Ƴ 37'56	1.44374 AU	superior conj	8372 Mar 24 07:00	5° Ƴ 42'23	-1°58'58
				minimum elong	8372 Mar 23 23:18	5° Ƴ 12'03	1°58'30
superior conj	8371 Apr 14 18:41	26° Ƴ 39'56	-2°11'47	evening rise	8372 Apr 08 08:58	29° Y 46'59	
minimum elong	8371 Apr 14 17:47	26° Ƴ 36'16		<i>5</i>	8372 Apr 08 12:11	0°8	
minimum viong	8371 Apr 16 19:53	0°8	2 1101	asc. node	8372 Apr 25 12:38	26° 8 23'29	
evening rise	8371 Apr 28 05:05	19° 8 01'14		use. noue	8372 Apr 28 14:40	0°II	
evening rise	8371 May 04 16:28	0° Ⅱ		evening max el	8372 Apr 28 19:29	0° Ⅱ 12'14	18034114
aga mada	•	8° Ⅱ 00'53		•	•	3° I I45'37	10 34 14
asc. node	8371 May 09 15:33		10010140	retrograde	8372 May 05 08:00	3 П 43 3 / 2° П 48'29	
evening max el	8371 May 16 07:10	16° Ⅱ 41'30	18°10'49	evening set	8372 May 08 12:23		
retrograde	8371 May 22 16:23	20° I I03'18			8372 May 11 19:49	30°R ∀	2010155
evening set	8371 May 25 13:23	19° Ⅱ 20'07		inferior conj	8372 May 14 05:21	27° 8 14'28	
inferior conj	8371 May 31 15:36	14° Ⅱ 03'15	3°01'02	minimum elong	8372 May 14 06:14	27° 8 11'49	3°19'42
minimum elong	8371 May 31 17:48	13° Ⅱ 57'15	3°00'30	min. Earth dist.	8372 May 16 06:55	24° 8 45'35	0.65037 AU
min. Earth dist.	8371 Jun 03 08:10	11° Ⅱ 07'38	0.63133 AU	morning rise	8372 May 19 23:17	20° 8 57'45	
morning rise	8371 Jun 06 20:42	7° Ⅱ 52'29		direct	8372 May 26 14:02	18° 8 11'48	
desc. node	8371 Jun 13 08:39	5° Ⅱ 17'44		desc. node	8372 May 30 05:39	18° 8 55'08	
direct	8371 Jun 13 15:05	5° Ⅱ 17'30		morning max el	8372 Jun 09 00:40	26° 8 06'42	27°10'33
morning max el	8371 Jun 27 14:35	13° Ⅱ 20'36	27°48'51		8372 Jun 12 14:44	$\Pi^{\circ}0$	
	8371 Jul 10 23:10	0 \circ \odot			8372 Jul 03 12:46	0 \circ \odot	
	8371 Jul 28 18:34	$0^{\circ}\Omega$		morning set	8372 Jul 14 13:44	19° © 56'06	
morning set	8371 Aug 01 01:30	6° Ω 27'47		max. Earth dist.	8372 Jul 19 01:24	28°©51'33	1.33616 AU
asc. node	8371 Aug 05 14:53	15° Ω 52'30			8372 Jul 19 14:47	$0^{\circ}\Omega$	
max. Earth dist.	8371 Aug 06 06:08		1.32473 AU	asc. node	8372 Jul 22 11:52	5° £ 59'06	
superior conj	8371 Aug 08 19:19	22° Ω 42'18	0°31'53	superior conj	8372 Jul 22 22:19	6° Ω 54'07	0°04'25
minimum elong	8371 Aug 08 17:52	22°Ω34'30	0°31'29	minimum elong	8372 Jul 22 22:06	6° Ω 52'58	0°04'14
minimum clong	8371 Aug 10 17:32 8371 Aug 12 03:43	0°m	0 31 27	behind sun begin	8372 Jul 22 16:41	6°Ω24'26	0 04 14
evening rise	8371 Aug 12 03.43 8371 Aug 15 17:20	7° Mp 43'06		behind sun end	8372 Jul 23 03:31	7° Ω 21'32	
evening rise	•	0° ʊ			8372 Jul 30 04:14	22°Ω19'11	
	8371 Aug 27 06:46		22022122	evening rise			
evening max el	8371 Sep 08 05:50	15° £ 49'05	23°32'33		8372 Aug 02 21:36	0° m/	2105420
desc. node	8371 Sep 09 07:35	16° ≏ 49'11		evening max el	8372 Aug 19 20:11	26° Mp 05'08	21°54'29
retrograde	8371 Sep 21 19:05	22° £ 35'51			8372 Aug 24 17:54	0∘ ত	
evening set	8371 Sep 26 02:30	21° ≙ 55'16		desc. node	8372 Aug 26 04:41	0° ≏ 48'09	
min. Earth dist.	8371 Oct 02 15:50	18° ≏ 49'25	0.55673 AU	retrograde	8372 Sep 01 10:51	2° ≏ 20'56	
inferior conj	8371 Oct 04 14:35	17° ≏ 40'03		evening set	8372 Sep 04 07:40	2° ഫ 02'34	
minimum elong	8371 Oct 04 12:24	17° ≏ 43'18	5°33'22		8372 Sep 09 19:48	30°R, Mp	
morning rise	8371 Oct 13 00:25	13° ≏ 46'43		inferior conj	8372 Sep 13 10:46	28°M 02'33	-4°50'35
direct	8371 Oct 15 21:14	13° ≏ 26′29		minimum elong	8372 Sep 13 02:07	28° m 14'41	4°48'47
morning max el	8371 Oct 26 10:36	18° ≏ 23'46	20°17'01	min. Earth dist.	8372 Sep 13 00:15	28° m 17'17	0.54787 AU
asc. node	8371 Nov 01 14:31	25° ≏ 47'11		morning rise	8372 Sep 21 21:53	24° Mp 13'53	
	8371 Nov 04 07:55	0°M₊		direct	8372 Sep 25 08:50	23° m/47'35	
morning set	8371 Nov 13 21:50	18°M04'52		morning max el	8372 Oct 07 11:02	29° m 29'37	21°47'29
-	8371 Nov 19 16:54	0° ∡ ¹		-	8372 Oct 07 23:47	0∘ <u>⊽</u>	
				asc. node	8372 Oct 18 11:31	13° ≏ 59'30	
superior conj	8371 Nov 21 12:15	3° х 40′14	1°33'19		8372 Oct 26 22:30	0°M	
minimum elong	8371 Nov 21 14:16	3° х 1011	1°33'20	morning set	8372 Oct 28 07:33	2°M51'42	
max. Earth dist.	8371 Nov 26 23:16		1.36562 AU		22.2 200 20 01.23	_ 11001 12	
man. Durur Ulst.	33,11101 20 23.10	, 2720	1.50502 AU				

	027231 04 11 40	100% 00100	1040104		0272 0 + 10 17 40	20 m 41105	1040140
superior conj	8372 Nov 04 11:49	18°M02'23	1°40'24	superior conj	8373 Oct 19 17:40	2°M41'05	1°40'40
minimum elong	8372 Nov 04 12:30	18°M05'58	1°40'31	minimum elong	8373 Oct 19 17:07	2°M38'07	1°40'44
max. Earth dist.	8372 Nov 08 11:56	26°M17'49	1.34730 AU	max. Earth dist.	8373 Oct 22 08:54	8°M₁9'20	1.33286 AU
	8372 Nov 10 08:23	0° ∡ ¹		evening rise	8373 Oct 27 08:26	18°M35'21	
evening rise	8372 Nov 12 19:33	4° ≯ ¹48'01			8373 Nov 02 07:34	0° ∡ ¹	
desc. node	8372 Nov 22 03:29	21° ⋌ ³33'47		desc. node	8373 Nov 09 00:34	11° ∡ ³37′01	
	8372 Nov 27 08:40	0°る			8373 Nov 21 14:09	0°ප	
evening max el	8372 Dec 17 23:18	26° ප 37'00	26°49'14	evening max el	8373 Nov 30 11:57	10° る 02'37	27°22'41
	8372 Dec 21 20:54	0° ≈		retrograde	8373 Dec 14 01:12	17°る22'23	
retrograde	8372 Dec 31 02:51	3°≈55'20		evening set	8373 Dec 20 23:37	14° る 47'28	
evening set	8373 Jan 06 16:14	1°≈20'05		min. Earth dist.	8373 Dec 24 19:11	11° る 19'54	0.64357 AU
C	8373 Jan 08 04:33	30°R₹		inferior conj	8373 Dec 27 05:35	8°る45'08	-1°41'58
min. Earth dist.	8373 Jan 10 17:00	27° る 19'15	0.65897 AU	minimum elong	8373 Dec 27 08:43	8° ට 36'48	1°40'30
inferior conj	8373 Jan 12 15:45	25° පි 03'01		asc. node	8374 Jan 01 07:52	4°る07'58	1 .030
minimum elong	8373 Jan 12 16:47	25° පි 00'01	0°35'33	morning rise	8374 Jan 02 19:24	3°る20'25	
asc. node	8373 Jan 14 10:50	23°る00'40	0 33 33	direct	8374 Jan 05 07:43	2° ප් 48'12	
	8373 Jan 14 10:30 8373 Jan 18 18:21	19°る24'05			8374 Jan 11 18:36	6°る10'37	17050151
morning rise				morning max el			17 32 31
direct	8373 Jan 21 14:27	18° පි 39'44	1001.414		8374 Jan 27 16:42	0°≈	
morning max el	8373 Jan 28 01:41	22° る 07'05	18°14'47	morning set	8374 Jan 28 20:00	1°≈55'09	
	8373 Feb 03 08:37	0° ≈		desc. node	8374 Feb 04 23:52	13° ≈ 53'37	
morning set	8373 Feb 16 04:56	20°≈11'59					
desc. node	8373 Feb 18 02:54	23° ≈ 17′00		superior conj	8374 Feb 11 04:51	24° ≈ 00'45	-0°44'00
	8373 Feb 22 07:30	0° ∀		minimum elong	8374 Feb 10 23:50	23° ≈ 40′33	0°43'10
					8374 Feb 14 22:48	0° ∀	
superior conj	8373 Mar 03 11:56	14°) (31′46	-1°27'02	max. Earth dist.	8374 Feb 16 02:06	1°) 48′05	1.44970 AU
minimum elong	8373 Mar 03 02:37	13° ¥ 55'11	1°25'57	evening rise	8374 Feb 27 03:46	19° ₩ 01'27	
max. Earth dist.	8373 Mar 05 06:24	17° ₩ 18'11	1.45513 AU	Č	8374 Mar 06 08:40	$_{0}^{\circ}\Upsilon$	
	8373 Mar 13 09:29	$0^{\circ}\Upsilon$		greatest brilliancy	8374 Mar 13 23:43	11° Υ 21'17	-0.6m
evening rise	8373 Mar 19 14:00	9° Υ 39'19		evening max el	8374 Mar 26 08:03	27° Y 27'10	20°11'00
greatest brilliancy	8373 Mar 31 00:32	27° Y 24'03	-0.7m	evening man er	8374 Mar 29 04:48	0°8	20 11 00
greatest orimancy	8373 Apr 01 17:49	0° 8	-0.7111	asc. node	8374 Mar 30 06:47	0° 8 44'01	
avanina may al		13° 8 48'31	19°14'52			1° 8 58'15	
evening max el	8373 Apr 12 04:19		19 14 32	retrograde	8374 Apr 03 02:48	_	
asc. node	8373 Apr 12 09:42	14° 8 02'01		evening set	8374 Apr 06 23:41	0° 8 31'22	
retrograde	8373 Apr 19 04:21	17° 8 45'37			8374 Apr 07 15:09	30°RΥ	
evening set	8373 Apr 22 16:35	16° 8 33'47		inferior conj	8374 Apr 12 07:43	24° Y 27'43	3°12'22
inferior conj	8373 Apr 28 03:40	10° 8 44'02	3°22'37	minimum elong	8374 Apr 12 06:19	24° Ƴ 32'29	3°12'08
minimum elong	8373 Apr 28 03:16	10° 8 45'20	3°22'29	min. Earth dist.	8374 Apr 13 03:31	23° Y 20'29	0.67617 AU
min. Earth dist.	8373 Apr 29 13:52	8° 8 53'24	0.66548 AU	morning rise	8374 Apr 17 12:43	18° Ƴ 10'58	
morning rise	8373 May 03 13:34	4° 8 25'57		direct	8374 Apr 23 06:27	15° Ƴ 37'20	
direct	8373 May 09 19:26	1° 8 41'15		desc. node	8374 May 03 23:36	21° Y 42'06	
desc. node	8373 May 17 02:39	4° 8 33'19		morning max el	8374 May 04 20:16	22° Ƴ 33'22	24°42'59
morning max el	8373 May 22 10:52	9° 8 13'56	26°05'25		8374 May 11 09:00	8°	
	8373 Jun 07 18:32	$\Pi^{\circ}0$			8374 Jun 01 02:04	$\Pi^{\circ}0$	
	8373 Jun 26 01:13	0°9		morning set	8374 Jun 09 18:33	14° Ⅱ 40′14	
morning set	8373 Jun 27 12:57	2°5544'08		max. Earth dist.	8374 Jun 13 09:27	21° I I10'16	1.37254 AU
max. Earth dist.	8373 Jul 01 09:58	10°504'44	1.35237 AU	man. Darm dist.	8374 Jun 18 02:41	0ංම 	1.5720 1110
max. Earth dist.	0373 341 01 07.30	10 304 44	1.55257 710		03743411 10 02.41	0	
superior conj	8373 Jul 06 17:48	20°539'49	0°26'05	superior conj	8374 Jun 20 02:42	3°951'43	0°57'50
	8373 Jul 06 17:48 8373 Jul 06 19:19			1 2	8374 Jun 20 06:17	4° 5 09'08	
minimum elong		20°547'32	0 23 30	minimum elong			0 3/32
asc. node	8373 Jul 09 08:51	26° © 03'15		asc. node	8374 Jun 26 05:50	16°501'19	
	8373 Jul 11 06:31	$0^{\circ}\Omega$		evening rise	8374 Jun 28 15:03	20°5548'04	
evening rise	8373 Jul 14 12:15	6° Ω 42'58			8374 Jul 03 07:50	0 \circ Ω	
	8373 Jul 27 07:04	0° ™		evening max el	8374 Jul 15 11:12	18° Ω 16'57	19°22'13
evening max el	8373 Aug 01 21:03	6° Mp 49′03	20°28'41	retrograde	8374 Jul 24 20:25	22° Ω 55'12	
retrograde	8373 Aug 12 22:59	12° m 17'51		evening set	8374 Jul 26 17:07	22° Ω 45′02	
desc. node	8373 Aug 13 01:47	12° Mp 17'49		desc. node	8374 Jul 30 22:50	21° Ω 14'55	
evening set	8373 Aug 14 23:32	12°M)07'41		inferior conj	8374 Aug 04 08:17	18° Ω 37'11	-1°20'49
inferior conj	8373 Aug 24 03:49	8° Mp 10'25	-3°17'00	minimum elong	8374 Aug 04 04:40	18° Ω 43'06	1°19'32
minimum elong	8373 Aug 23 19:11			min. Earth dist.	8374 Aug 06 22:25	16° Ω 56'06	
min. Earth dist.	8373 Aug 25 09:41	7° m/27'10		morning rise	8374 Aug 12 13:31	13° £ 59′59	
morning rise	8373 Sep 01 14:19	4° Mp 06'20	y= -	direct	8374 Aug 17 12:28	13° Ω 04'13	
direct	8373 Sep 05 17:53	3° m/ 29'24		morning max el	8374 Aug 31 14:26	20°Ω10'21	25°15'32
morning max el	8373 Sep 19 01:56	9° Mp 56'27	23°31'40	morning max or	8374 Sep 09 00:18	0° Mp	20 10 02
morning max er		ე° <u>ი</u>	23 31 4 0	aga mada	=	-	
asa nodo	8373 Oct 03 18:55			asc. node	8374 Sep 22 05:26	22° Mp 07'39	
asc. node	8373 Oct 05 08:29	2° Ω 49'28			8374 Sep 26 02:21	0∘ ⊽	
morning set	8373 Oct 12 19:02	17° £ 41'30		morning set	8374 Sep 27 06:36	2° ≏ 29'28	
	8373 Oct 18 11:54	0°M₊					

superior conj	8374 Oct 04 03:24	17° ≏ 29'10	1°34'51	morning max el	8375 Aug 13 06:39	0° Ω 40'07	26°42'08
minimum elong	8374 Oct 04 01:54	17° £ 20'52	1°34'46	morning must be	8375 Sep 03 00:18	0° m)	20 .200
max. Earth dist.	8374 Oct 05 13:11	20° ₽ 34'22	1.32286 AU	asc. node	8375 Sep 09 02:24	11° m)46'31	
	8374 Oct 09 22:30	0°M		morning set	8375 Sep 11 16:41	17° m 10'55	
evening rise	8374 Oct 11 06:41	2°M47'30			8375 Sep 17 13:43	0∘ ⊽	
	8374 Oct 26 03:02	0° ∡				_	
desc. node	8374 Oct 26 21:38	1° х 13′33		superior conj	8375 Sep 18 15:01		1°23'31
evening max el	8374 Nov 12 21:52	22° ₹ 58'44	27°27'17	minimum elong	8375 Sep 18 12:56	2° Ω 08'44	1°23'16
matra ama da	8374 Nov 24 08:21 8374 Nov 26 16:46	0°궁 0°궁14'59		max. Earth dist. evening rise	8375 Sep 18 22:09 8375 Sep 25 11:30	2° £ 59'53 17° £ 17'00	1.31743 AU
retrograde	8374 Nov 28 23:48	0 01439 30°R <i>X</i> 7		evening rise	8375 Oct 01 19:08	0°M	
evening set	8374 Dec 03 19:10	27° × ⁷ 49'23		desc. node	8375 Oct 01 19:08 8375 Oct 13 18:42	20°M12'48	
min. Earth dist.	8374 Dec 07 11:30	24° х 50'34	0.62517 AU	desc. node	8375 Oct 21 04:20	0° ⊼	
inferior conj	8374 Dec 10 08:27	22° ∡ 07'17	-2°51'49	evening max el	8375 Oct 26 02:46	5° ∡ 14'10	26°58'45
minimum elong	8374 Dec 10 13:54	21° ₹ 54'21	2°49'37	retrograde	8375 Nov 09 00:34	12° ∡ °24′23	
morning rise	8374 Dec 17 10:47	16° ₹ 59'59		evening set	8375 Nov 15 23:04	10° √ 19'04	
asc. node	8374 Dec 19 04:55	16° ∡ ³37'31		min. Earth dist.	8375 Nov 19 17:18	7° ∡ ³39'27	0.60475 AU
direct	8374 Dec 19 17:44	16° ₹ 36'12		inferior conj	8375 Nov 22 21:08	5° ∡ 01'35	
morning max el	8374 Dec 26 11:40	20° ∡ '03'01	17°48'29	minimum elong	8375 Nov 23 04:17	4° ∡ ¹46'39	3°58'29
	8375 Jan 02 21:08	0°る		morning rise	8375 Nov 30 11:56	0° ₹ 14'32	
morning set	8375 Jan 11 10:16	14° る 44'25		1.	8375 Dec 01 15:41	30°RM.	
	8375 Jan 20 03:44	0° ≈		direct	8375 Dec 02 16:43	29°M.55'42 0°⊀	
superior conj	8375 Jan 22 21:36	4° ≈ 39'22	0°00'14	asc. node	8375 Dec 03 17:30 8375 Dec 06 01:56	0° x ¹ 0° x ¹42'23	
minimum elong	8375 Jan 22 21:36	4°≈39'21	0°00'06	morning max el	8375 Dec 00 01:36 8375 Dec 10 01:35	3° ₹ 35'48	18°02'46
behind sun begin	8375 Jan 22 12:45	4°≈02'07	0 00 00	morning set	8375 Dec 25 17:25	28°×721'12	10 02 40
behind sun end	8375 Jan 23 06:26	5°≈16'31		morning sec	8375 Dec 26 14:40	0°る	
desc. node	8375 Jan 22 20:49	4°≈36'04				• •	
max. Earth dist.	8375 Jan 29 18:38	15° ≈ 58'50	1.43749 AU	superior conj	8376 Jan 04 15:34	16° පි 30'01	0°37'20
evening rise	8375 Feb 06 16:20	28° ≈ 28'11		minimum elong	8376 Jan 04 18:21	16° る 42'22	0°37'05
	8375 Feb 07 16:06	0° ∀		desc. node	8376 Jan 09 17:49	25° る 21'16	
	8375 Feb 28 03:22	0 ° $\mathbf{\gamma}$		max. Earth dist.	8376 Jan 12 06:28	29° る 36'47	1.42000 AU
evening max el	8375 Mar 09 06:11	11° Y 06′31	21°19'55		8376 Jan 12 12:02	0° ≈	
asc. node	8375 Mar 17 03:52	16° Y 13'57		evening rise	8376 Jan 17 18:12	8° ≈ 34'41	
retrograde	8375 Mar 18 01:07	16° Y 17'58			8376 Jan 31 19:18	0°)	22025110
evening set	8375 Mar 22 07:48	14° Y 35'59 8° Y 20'55	2051121	evening max el	8376 Feb 19 23:37	24°) 48′06 0° °	22°37'19
inferior conj	8375 Mar 27 15:05 8375 Mar 27 13:03	8°Υ20'55 8°Υ28'00	2°51'21 2°50'54	ratra ara da	8376 Feb 26 20:41 8376 Feb 29 21:35	0° Υ 40'49	
minimum elong min. Earth dist.	8375 Mar 27 21:44	7° Υ 57'48	0.68239 AU	retrograde asc. node	8376 Mar 03 00:57	0° Υ 17'46	
morning rise	8375 Apr 01 18:07	2° Υ 07'14	0.08239 AU	asc. node	8376 Mar 03 17:32	30° ₹	
morning rise	8375 Apr 05 14:10	30° R €		evening set	8376 Mar 05 15:20	28°) 43'53	
direct	8375 Apr 06 22:13	29° ₩ 51'26		inferior conj	8376 Mar 10 23:47	22°) (20'33	2°20'52
	8375 Apr 08 07:21	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	8376 Mar 10 21:32	22°) €28'23	2°20'15
morning max el	8375 Apr 17 05:50	5° Y 59′22	23°13'23	min. Earth dist.	8376 Mar 10 18:16	22°)(39'41	0.68433 AU
desc. node	8375 Apr 20 20:34	9° Y 56'06		morning rise	8376 Mar 16 03:35	16°) 11′26	
	8375 May 05 19:08	9° 8		direct	8376 Mar 20 17:45	14°) (17′03	
morning set	8375 May 22 01:00	25° 8 29'44		morning max el	8376 Mar 29 18:39	19° ¥ 33'17	21°46'01
	8375 May 24 16:52	0°II		desc. node	8376 Apr 06 17:32	28°) €57'18	
max. Earth dist.	8375 May 26 05:21	2°Щ37′04	1.39487 AU		8376 Apr 07 12:30	0°Υ •••	
	9275 I 02 21.00	160 T 20116	1920150		8376 Apr 27 23:31	0°8	
superior conj minimum elong	8375 Jun 02 21:09 8375 Jun 03 02:32	16° Ⅲ 20'16 16° Ⅲ 45'08		morning set max. Earth dist.	8376 May 01 04:04 8376 May 07 04:52	5° ႘ 02'51	1.41677 AU
minimum ciong	8375 Jun 10 02:22	10 ப 43 08	1 2017	max. Earth dist.	6570 May 07 04.32	14 03217	1.410// AU
evening rise	8375 Jun 10 02:22 8375 Jun 12 09:40	4° 5 26'14		superior conj	8376 May 14 20:35	27° 8 55'14	-1°54'42
asc. node	8375 Jun 13 02:51	5°9348'51		minimum elong	8376 May 15 02:15	28° 8 20'07	
	8375 Jun 28 01:39	0°N			8376 May 16 00:58	0°II	
evening max el	8375 Jun 28 12:40	0° Ω 27'51	18°36'42	evening rise	8376 May 25 16:25	17° Ⅱ 28'19	
retrograde	8375 Jul 06 11:21	4° Ω 24'47		asc. node	8376 May 29 23:53	25° Ⅱ 21'03	
evening set	8375 Jul 08 13:11	4° Ω 09'30			8376 Jun 01 14:59	0ಂತಾ	
inferior conj	8375 Jul 16 08:57	29°543'28	0°26'05	evening max el	8376 Jun 10 21:42	13° © 12'54	18°11'28
minimum elong	8375 Jul 16 09:55	29° 5 41'37	0°25'35	retrograde	8376 Jun 17 20:53	16° © 43'50	
	8375 Jul 16 00:15	30° ₹ 5		evening set	8376 Jun 20 06:21	16° © 19'33	
desc. node	8375 Jul 17 19:53	28°536'32	0.55551	inferior conj	8376 Jun 27 07:08	11°532'56	1°47'25
min. Earth dist.	8375 Jul 19 16:00	27°513'52	0.57501 AU	minimum elong	8376 Jun 27 10:03	11°526'26	1°46'20
morning rise	8375 Jul 24 03:08	24°529'12		min. Earth dist.	8376 Jun 30 15:52	8°934'44	0.59655 AU
direct	8375 Jul 29 21:54 8375 Aug 12 13:47	23° © 05'21 0° Ω		desc. node morning rise	8376 Jul 03 16:57 8376 Jul 04 10:47	6°©16'33 5°©48'47	
	03/3 Aug 12 13.4/	0 06		morning rise	05/0 Jul 04 10.4/) *****	

direct	8376 Jul 10 20:46	3° © 53'18		morning max el	8377 Jul 07 10:17	23° Ⅲ 35'14	27°55'43
morning max el	8376 Jul 25 05:17	11° © 45'38	27°37'45	C	8377 Jul 13 03:57	0ಂತಾ	
	8376 Aug 08 12:39	$0^{\circ}\Omega$			8377 Aug 01 19:43	$0^{\circ}\Omega$	
	8376 Aug 25 04:18	0° m		morning set	8377 Aug 10 01:05	15° Ω 50'43	
morning set	8376 Aug 25 23:29	1° m 39'45		asc. node	8377 Aug 12 20:20	21° Ω 40′35	
asc. node	8376 Aug 25 23:21	1° ™ 39'07		max. Earth dist.	8377 Aug 15 15:42	27° Ω 41'35	1.32048 AU
max. Earth dist.	8376 Sep 01 08:13	15° ™ 25'45	1.31662 AU		8377 Aug 16 17:08	0°Щ	
superior conj	8376 Sep 02 02:38	17° m 07'41	1°07'07	superior conj	8377 Aug 17 12:28	1° Mp 45'42	0°46'01
minimum elong	8376 Sep 02 00:23	16° m 55'15	1°06'42	minimum elong	8377 Aug 17 10:34	1°m/35'21	0°45'34
	8376 Sep 07 22:59	0∘ ʊ		evening rise	8377 Aug 24 07:51	16° My 38'25	
evening rise	8376 Sep 08 20:34	1° £ 55'58			8377 Aug 30 21:02	0° ⊽	
	8376 Sep 23 20:58	0°M,		desc. node	8377 Sep 16 12:53	25° £ 11'39	24020100
desc. node	8376 Sep 29 15:47	8°M19'05	25057102	evening max el	8377 Sep 18 14:13	27° £ 17'26	24°29'09
evening max el	8376 Oct 07 00:17 8376 Oct 20 22:34	16°M39'33 23°M43'04	25°57'02	rotro ara da	8377 Sep 21 17:27 8377 Oct 02 08:54	0° ጤ 4° ጤ 12'34	
retrograde evening set	8376 Oct 20 22.34 8376 Oct 27 06:23	23 11643 04 22°M08'18		retrograde evening set	8377 Oct 02 08.34 8377 Oct 07 13:12	3°M13'04	
min. Earth dist.	8376 Oct 27 00:23 8376 Oct 31 13:06	19°M33'01	0.58399 AU	min. Earth dist.	8377 Oct 07 13:12 8377 Oct 13 01:10	0°M23'43	0.56538 AU
inferior conj	8376 Nov 03 16:05	17°ML17'24		iiiii. Eartii tiist.	8377 Oct 13 01:10 8377 Oct 13 16:25	0 11623 43 30°RΩ	0.30338 AU
minimum elong	8376 Nov 03 10:03	17°M05'19	4°58'18	inferior conj	8377 Oct 15 10:25 8377 Oct 15 14:48	28° £ 46'30	-5°33'16
morning rise	8376 Nov 11 17:23	12°M52'46	4 30 10	minimum elong	8377 Oct 15 14:46	28° ⊆ 43'10	
direct	8376 Nov 14 00:30	12°M35'37		morning rise	8377 Oct 23 22:46	24° £ 43'49	3 33 03
asc. node	8376 Nov 21 22:59	16°ML15'13		direct	8377 Oct 26 13:28	24° £ 25'23	
morning max el	8376 Nov 22 08:36	16°M37'53	18°37'25	morning max el	8377 Nov 05 05:11	28° ♀ 59'18	19°34'10
5 5	8376 Dec 01 20:13	0° ∡ 7		. <i></i>	8377 Nov 06 05:32	0°M	
morning set	8376 Dec 08 12:15	12° ₹ 29'51		asc. node	8377 Nov 08 20:00	3° M 01'47	
C				morning set	8377 Nov 22 15:00	26°M59'30	
superior conj	8376 Dec 17 06:36	29° ₹ 20′12	1°06'05	C	8377 Nov 24 02:48	0° ∡ ¹	
minimum elong	8376 Dec 17 10:00	29° ₰ 36'04	1°05'50				
	8376 Dec 17 15:07	万 °0		superior conj	8377 Nov 30 13:40	12° ∡ 56′03	1°25'47
max. Earth dist.	8376 Dec 24 14:01	12° る 34'01	1.39922 AU	minimum elong	8377 Nov 30 16:22	13° ₰ 09'18	1°25'43
desc. node	8376 Dec 26 14:49	16° පි 05'01		max. Earth dist.	8377 Dec 06 19:57	24° ₹ 53'15	1.37755 AU
evening rise	8376 Dec 28 16:58	19° る 37'30			8377 Dec 09 15:29	0°ප	
	8377 Jan 04 01:55	0°≈		evening rise	8377 Dec 10 13:22	1° る 37'21	
	8377 Jan 25 01:37	0° ∀		desc. node	8377 Dec 13 11:49	6° る 43'44	
evening max el	8377 Feb 01 14:04	8°) 33′09	23°57'34		8377 Dec 28 06:31	0° ≈	
retrograde	8377 Feb 12 14:49	15° ∺ 02'23		evening max el	8378 Jan 15 03:16	22° ≈ 20′25	25°13'58
evening set	8377 Feb 17 20:45	12° 米 51′13		retrograde	8378 Jan 27 03:46	29° ≈ 17'30	
asc. node	8377 Feb 17 22:04	12°) (48'26		evening set	8378 Feb 01 22:29	26°≈53'46	
min. Earth dist.	8377 Feb 22 14:48	7° ∺ 21′29		asc. node	8378 Feb 04 19:11	23°≈56'41	0.67600 444
inferior conj	8377 Feb 23 07:56	6° ∺ 23'22	1°41'40	min. Earth dist.	8378 Feb 06 09:02	21°≈58'47	0.67609 AU
minimum elong	8377 Feb 23 05:54 8377 Feb 28 15:03	6° 	1°41'02	inferior conj	8378 Feb 07 13:38	20°≈25'51	0°54'11
morning rise	8377 Heb 28 15:03 8377 Mar 01 02:21	0°π2022 30°R≈		minimum elong morning rise	8378 Feb 07 12:21 8378 Feb 13 02:33	20°≈30'00 14°≈30'41	0°53'48
direct	8377 Mar 04 15:47	30 k∞ 28°≈48'22		direct	8378 Feb 16 14:53	14 ≈3041 13°≈19'42	
direct	8377 Mar 04 13:47 8377 Mar 08 11:46	20 ≈ 40 22		morning max el	8378 Feb 23 17:38	13 ≈1942 17°≈16'00	19°23'46
morning max el	8377 Mar 12 14:07	3°) 18'48	20°28'05	morning max er	8378 Mar 05 17:15	0° ∀	17 23 40
desc. node	8377 Mar 24 14:29	18°) 32'45	20 20 00	greatest brilliancy	8378 Mar 08 14:46	4°) 15'11	-0.7m
	8377 Apr 01 09:58	$0^{\circ}\Upsilon$		desc. node	8378 Mar 11 11:25	8°) 32′45	
morning set	8377 Apr 10 07:41	13° Y 34'16		morning set	8378 Mar 20 06:20	21°) 59′39	
max. Earth dist.	8377 Apr 19 12:01	28° Y 03'42	1.43541 AU		8378 Mar 25 10:25	$0^{\circ}\mathbf{\Upsilon}$	
	8377 Apr 20 16:51	9° 8		max. Earth dist.	8378 Apr 02 02:02	11° Y 58'44	1.44854 AU
superior conj	8377 Apr 25 20:38	8° 8 27'31	-2°10'07	superior conj	8378 Apr 05 20:06	17° Ƴ 56'04	-2°08'53
minimum elong	8377 Apr 25 23:18	8° 8 38'36	2°10'09	minimum elong	8378 Apr 05 16:06	17° Ƴ 40'07	2°08'49
evening rise	8377 May 08 06:50	29° 8 44'18			8378 Apr 13 07:25	9° 8	
	8377 May 08 10:25	0° I I		evening rise	8378 Apr 20 00:15	11° 8 04'04	
asc. node	8377 May 16 20:57	14° Ⅲ 32′23	4000	_	8378 May 01 13:45	0°II	
evening max el	8377 May 25 10:31	26° I I22'20	18°05'39	asc. node	8378 May 03 18:02	3° Ⅱ 15'00	1004000
retrograde	8377 May 31 21:45	29° I I43'13		evening max el	8378 May 08 23:45	9° Ⅱ 46'34	18°18'34
evening set	8377 Jun 03 14:42	29° I I07'18	2041107	retrograde	8378 May 15 09:16	13° Ⅱ 11'52	
inferior conj	8377 Jun 09 23:58	24° Ⅱ 00'47	2°41'06	evening set	8378 May 18 09:24	12° Ⅱ 22'47	2011117
minimum elong	8377 Jun 10 02:44	23° Ⅲ 53'41 20° Ⅲ 58'08	2°40'18	inferior conj	8378 May 24 07:12	6°∏58'08 6°∏53'23	3°11'16
min. Earth dist.	8377 Jun 12 23:58 8377 Jun 16 12:48	20°Щ58'08 17° Щ 57'09	0.61904 AU	minimum elong min. Earth dist.	8378 May 24 08:51	6°Ⅲ53'23 4°Ⅲ12'20	3°10'53 0.63981 AU
morning rise desc. node	8377 Jun 16 12:48 8377 Jun 20 14:00	17° Д 57'09 15° Д 56'28		min. Earth dist.	8378 May 26 17:25 8378 May 30 07:10	4° П 12′20 0° П 44′01	0.03981 AU
direct	8377 Jun 20 14:00 8377 Jun 23 06:18	15° Щ 3628 15° Щ 34'13		morning rise	8378 May 31 06:49	0°Щ4401 30° Ŗ ്	
uncet	0511 Jun 25 00.10	10 113			0570 Iviay 51 00.49	20 I /O	

Series S	direct	8378 Jun 06 00:35	28° 8 03'15		inferior conj	8379 May 08 00:59	20° 8 17'45	3°22'48
Marching man March					,	•		
Mathematic Mat					Č	•	_	
March	morning max el			27°36'30		•		
Mark	S		0ංම		=	•		
Max. Earth side 8378 May 20 10.34 10.7409 10.74009 1	morning set	8378 Jul 24 19:02	29° © 36'39		desc. node	8379 May 25 08:03	12° 8 41'56	
Septender Sept		8378 Jul 24 23:45	$0^{\circ}\Omega$		morning max el	8379 Jun 02 06:04	19° 8 01'00	26°45'38
Supprison Supp	max. Earth dist.	8378 Jul 29 16:34	9° £ 35′50	1.32906 AU	_	8379 Jun 11 13:20	$\Pi^{\circ}0$	
Manufaction 8378 Aug 01 8335 1.0 0.004 0.002 0.002 0.002 0.0004 0.002 0.0004	asc. node	8378 Jul 30 17:19	11° Ω 46′04			8379 Jul 01 01:27	0 \circ \odot	
minimum elong 8378 Aug 0 1 17-33 16° 20'0300 0'20'21 8278 Aug 0 10'1-30 10° 20'10'1 8378 Aug 0 19'25 1° 18'18'18'5 8378 Aug 14 1 10'190' 0'21'114'8 0'08'19 8478 Aug 0 10'130' 0'21'10'1 9478 Aug 0 19'25 1° 18'18'18'5 8378 Aug 14 1 10'190' 0'21'114'8 0'08'19 9478 Aug 0 10'130' 0'21'10' 0'21'10' 0'21' 0'2					morning set	8379 Jul 08 02:15	12°5549'07	
Sam Nag 08 04-36 0°Pg	superior conj	8378 Aug 01 18:33	16° Ω 08'19	0°20'41	max. Earth dist.	8379 Jul 12 07:21	21° © 02'00	1.34246 AU
Poeting fries 8,78 Aug 08 19.25 1918/05 minimum elong 8,79 Jul 16 19.07 0°,41148 0°,0819	minimum elong	8378 Aug 01 17:33	16° Ω 03′00	0°20'21				
cenning max of a 378 Aug 31 10:10 0°Φ behind sun begin 879 Jul 16 14:00 2°9°E4579 cenning max of a 378 Aug 31 10:10 10°Φ 2300 10°Φ 2300 behind sun end 879 Jul 16 16:51 0°C critorgate 8378 Sep 13 076 14°Φ 630 ase, node 8379 Jul 17 14:17 11°C 51'41 evening set 8378 Sep 16 23:05 13°Φ 2700 0.5518 AU evening rise 8379 Jul 2 19:35 0.750 17°L 14:17 11°C 51'41 iniferior corij 8378 Sep 2 10:09 9°Φ 16:05 9°E216 desc. node 8379 Aug 21 07:04 17°C 52'17 0°T 90° dricer 8378 Oct 0.01 0.01 0.01 minimum clong 8379 Aug 21 07:04 2.17°C 52'17 0°T 90° 2.17°C 52'17 0°T		8378 Aug 08 04:46	0° m ∕		superior conj	8379 Jul 16 18:40	0° Ω 09'25	-0°08'14
Second Same	evening rise	8378 Aug 08 19:25	1° m 18'05		minimum elong	8379 Jul 16 19:07	0° Ω 11'48	0°08'19
Continger 1978 1979 19		8378 Aug 24 17:01	0∘ ⊽		behind sun begin	8379 Jul 16 14:09		
Percognacy 147-147 174-147 1	evening max el	8378 Aug 31 01:36		22°49'56	behind sun end	8379 Jul 17 00:05		
evening set mine Earth dist. 8378 Sep 16 23.06 13°B47701 evening rash 8379 Jul 24 05:20 15°L 64914 2 1°L 18°L 18°L 18°L 18°L 18°L 18°L 18°L	desc. node	8378 Sep 03 09:58	10° £ 23′01			8379 Jul 16 16:51		
min tarth dist.	-	-	14° ഫ 06'30		asc. node			
Inferior coor	evening set	•	13° ≏ 37'01		evening rise			
minimum elong 8378 Sep 25 1309 99.83650 5°21'36 desc. node 8379 Aug 21 07:04 23°85270 1000		•					•	
Montring rise M378 Oct 04 05:15 5°\$4018 refrograde 8379 Aug 24 0232 23°\$5209 refrograde 8378 Aug 27 06:02 23°\$53847 remorning max el 8378 Oct 26 17:00 20°46497 minimum elong 8379 Sep 05 11:39 1984130 41°15'44 remorning max el 8378 Nov 01 12:00 20°46497 minimum elong 8379 Sep 05 11:39 1984130 41°15'44 remorning set 8378 Nov 01 12:00 11°\$41'120 minimum elong 8378 Sep 05 18:23 15°\$48'137 41°1322 remorning rise 8379 Sep 05 18:23 15°\$48'137 41°1322 remorning rise 8378 Nov 14 08:18 27°\$10.05'8 13°713 morning max el 8379 Sep 13 18:24 15°\$48'37 13°22 13°210 13		•			•	•	~	21°15'54
Second S	•			5°21'36		-		
morning max el 8.378 Oct 18 13.00 00 02 02 03 03 03 03	_				•	· ·	•	
See					•	•		
moming set 8378 Nov 0 62250 19"				20°53'16		•	-•	
Sample	asc. node				Č		-•	
Saperior or Sa78 Nov 14 08:18 27°BL04'S8 13°3713 moming maxel 8379 Sep 17 16.08 15°B_18'44 moming maxel 8379 Sep 30 08:51 21°B_205'0 22°30'49' minimum clong 8378 Nov 15 18:36 0°\$\$ asc. node 8379 Oct 17 17:37 0°\$\$ 40°\$\$ 40°\$\$ 3878 Nov 19 04:43 6°\$\$ 24°92'5 135739 AU moming set 8379 Oct 2 09:30 26°\$\$ 20°51 41°\$\$ 22°72'4 8379 Oct 2 09:30 26°\$\$ 20°51 42°\$\$ 22°72'4 42°\$\$ 22°72'4 8379 Oct 2 09:30 11°BL36'09 14°\$\$ 22°72'4 42°\$\$ 22°72'4							-•	0.54678 AU
superior conj 8378 Nov 14 08:18 27°M.04'58 1°37'13 morning max el 8379 Oct 07 17:37 0°2 2°30'49 minimum elong 8378 Nov 14 08:18 6°2" 1°37'11 asc. node 8379 Oct 07 17:37 0°2 1°40'15 max. Earth dist. 8378 Nov 19 04:43 6°2"40'25 1.35739 AU morning set 8379 Oct 22 09:30 26°2.00'51 - desc. node 8378 Nov 30 08:50 27"*x13'22 - superior conj 8379 Oct 29 10:53 1°8"M25'5 1°41'18 desc. node 8378 Dec 23 00:25 0°2 0°2 minimum elong 8379 Oct 29 10:53 1°8"M23'5 1°41'18 evening max el 8378 Dec 23 16:20 0°2 0°2 minimum elong 8379 Nov 01 20:30 1°8"M33'81 1.41'18 1.41'18 1.41'18 1.41'18 1.41'18 1.41'14 1.11'18 1.41'14 1.41'14 1.11'18 1.41'14 1.41'14 1.11'18 1.41'14 1.41'14 1.11'18 1.41'14 1.41'14 1.41'14 1.41'14 1.41'14 1.41'14 1.41'14 1.41'14 <td>morning set</td> <td>8378 Nov 06 22:50</td> <td>11°1142'13</td> <td></td> <td>•</td> <td></td> <td></td> <td></td>	morning set	8378 Nov 06 22:50	11° 11 42'13		•			
minimum elong max. Earth dist. 8378 Nov 14 09:46 8378 Nov 15 18:36 0° 2° max. Earth dist. 8378 Nov 23 04:35 14° 27274 14° 27274 18° 279 Nov 30 08:50 27° 271872 18° 280 02 09:34 18° 280 02 02:34 18° 280 02 02:34 18° 280 02 02:34 18° 280 02 02:34 18° 280 02:34 18° 28						•	-	
max. Earth dist. 8378 Nov 15 18:36 0° x²					morning max el	•	-•	22°30'49
max. Earth dist. 8378 Nov 19 04:43 6° № 4925 1.35739 AU morning set 8379 Oct 22 09:30 26° № 30'51 - 1° № 11 № 135'25 - 1°	minimum elong			1°37′17	,			
Syra Nov 23 04.35 44° \$\times 2724 40.56 40° \$\times 273 Nov 30 08.50 27° \$\times 1372 40.56 40° \$\times 273 Nov 30 08.50 27° \$\times 1372 40° \$\times 273 Nov 30 08.50	F 4 F 4			1 25720 ATT				
Sara Nov 30 08:50 CP* Plane Pl				1.35/39 AU	morning set			
Sa78 Dec 02 00:34 0°B minimum elong 8379 Oct 29 10:53 1°1 1°1 36:09 1°4 1′124 retrograde 8378 Dec 23 00:25 0°∞ minimum elong 8379 Oct 29 11:02 11°1 1°1 36:09 1°4 1′124 retrograde 8379 Jan 10 11:46 13°∞ 20′3 evening rise 8379 Nov 01 20:30 18°1 1.43 1.43 1.43 1.43 1.43 1.43 1.43 1.4	-					83/9 Oct 24 00:56	บาแน	
evening max el 8378 Dec 23 00:25 0°≈ minimum elong 8379 Oct 29 11:02 11°R.3609 1°41'24 evening max el 8378 Dec 28 16:20 6°≈06'13 26°19'21 max. Earth dist. 8379 Nov 01 20:30 18°R.43'18 1.34059 AU retrograde 8379 Jan 10 11:46 13°≈20'34 evening rise 8379 Nov 06 10:39 27°R.56'50 evening set 8379 Jan 16 18:47 10°≈4747 evening rise 8379 Nov 07 12:04 0°≈ 17°₹28'01 16'18:47 10°≈4747 8379 Nov 17 05:52 17°₹28'01 16'18:47 10°≈4747 10'18:47 10'1	desc. node				aumariar aani	9270 Oct. 20, 10:52	110 m 25125	10/11/10
evening max el retrograde 8378 Dec 28 16:20 6°≈06'13 26°19'21 max. Earth dist. 8379 Nov 01 20:30 18° IL43'18 1.34059 AU retrograde 8379 Jan 10 11:46 13°≈20'34 evening rise 8379 Nov 06 10:39 2° IL56'50 2° IL56'50 evening set 8379 Jan 16 18:47 10°≈47'47 8379 Nov 07 12:04 0° ₹ 20° IL56'50 1.05 11 11.05 1								
evening set 8379 Jan 10 11:46 13°≈20'34 evening rise 8379 Nov 06 10:39 27°€56'50 evening set 8379 Jan 16 18:47 10°≈47'47 8379 Nov 07 12:04 0°₹ evening set 8379 Nov 07 12:04 0°₹ evening set 8379 Nov 17 05:52 17° ₹28'01 evening minimum elong 8379 Jan 22 14:59 4°≈24'52 0°00'54 evening max el 8379 Nov 25 06:12 0°₹ evening minimum elong 8379 Jan 22 15:00 4°≈24'52 0°00'54 evening max el 8379 Dec 21 105:25 19°₹42'15 27°60'34 evening set 8379 Dec 24 14:02 27°₹50'258 evening set 8379 Jan 22 15:00 4°≈24'52 0°00'54 evening set 8379 Dec 24 14:02 27°₹50'258 evening set 8379 Jan 22 15:03 4°≈31'05 evening set 8379 Dec 31 07:36 24°₹26'48 evening set 8379 Dec 31 07:36 24°₹26'48 evening set 8379 Jan 26 15:33 30°₹6 minimum elong 8380 Jan 06 09:44 18°₹157 1°03'25 evening rise 8380 Jan 06 11:36 18°₹50'941 1°02'27 evening minimum elong 8380 Jan 10 6 11:36 18°₹50'941 1°02'27 evening minimum elong 8380 Jan 10 6 11:36 18°₹50'941 1°02'27 evening minimum elong 8380 Jan 10 6 11:36 18°₹50'941 1°02'27 evening minimum elong 8380 Jan 10 6 11:36 12°₹61'44 evening minimum elong 8379 Feb 10 10:13 evening elementary elemen	avaning may al			26°10'21	•			
evening set min. Earth dist. start dist.	•			20 1921				1.54059 AO
min. Earth dist. 8379 Jan 20 22:49 6°≈27'25 0.66624 AU desc. node 8379 Nov 17 05:52 17°×28'01 17 18 18 18 19 19 19 19 19	=				evening rise			
minferior conj 8379 Jan 22 14:59 4°≈24'56 -0°01'04 evening max el 8379 Nov 25 06:12 0°₹ minimum elong 8379 Jan 22 15:00 4°≈24'52 0°00'54 evening max el 8379 Dec 11 05:25 19°₹ 42"15 27°06'34 transit middle 8379 Jan 22 15:00 4°≈24'52 0°00'54 evening max el 8379 Dec 24 14:02 27°₹ 20'258 transit end 8379 Jan 22 17:53 4°≈31'40 evening set 8379 Dec 31 07:36 24°₹ 26'48 transit end 8379 Jan 22 16:16 4°≈21'01 minimum elong 8380 Jan 06 09:44 18°₹ 14'57 -1°03'25 8379 Jan 26 15:53 30°₹ minimum elong 8380 Jan 06 09:44 18°₹ 09'41 1°02'27 morning rise 8379 Jan 28 12:00 28°₹ 39'33 asc. node 8380 Jan 06 11:36 12°₹ 04'145 direct 8379 Feb 07 04:17 1°≈21'26 18°35'13 morning max el 8380 Jan 15 09:19 12°₹ 03'12 morning set 8379 Feb 27 03:47 1°×26'36 desc. node 8380 Feb 10 08:45 0°≈ morning set 8379 Mar 16 02:59 26° ★46'27 -1°47'26 minimum elong 8379 Mar 15 17:40 26° ★10'02 1°46'38 minimum elong 8380 Feb 23 10:51 5° ¥46'58 -1°09'29 max. Earth dist. 8379 Mar 15 09:59 26° ★46'27 -1°47'26 minimum elong 8379 Mar 15 09:59 26° ★10'02 1°46'38 morning max el 8380 Feb 23 23:30 0° ↑ evening rise 8379 Mar 15 09:50 26° ★10'02 1°46'38 morning max el 8380 Feb 23 23:30 0° ↑ evening rise 8379 Mar 18 04:24 0° ↑ minimum elong 8380 Feb 23 23:30 0° ↑ evening rise 8379 Mar 18 04:24 0° ↑ minimum elong 8380 Feb 23 23:30 0° ↑ (1°) ↑ 00'12 0° ↑ (1°) ↑ 00'12 0° ↑ (1°) ↑ 00'12 0° ↑ (1°) ↑ 00'12 0° ↑ (1°) ↑ 00'12 0° ↑ (1°) ↑ 00'12 0° ↑ (1°) ↑ 00'12 0° ↑ (1°) ↑ 00'12 0° ↑ (1°) ↑ 00'12 0° ↑ 0° ↑ (1°) ↑ 00'12 0° ↑ 00'12 0° ↑ 00'12 0° ↑ 00'12 0° ↑ 00'12 0° ↑ 00'12 0° ↑ 00'12 0° ↑ 00'12 0° ↑ 00'12 0° ↑ 00'12 0° ↑ 00'12 0° ↑ 00'12 0° ↑	Č			0 66624 AU	desc node			
minimum elong transit middle 8379 Jan 22 15:00 4°≈24′52 0°00′54 evening max el 8379 Dec 11 05:25 19°€42′15 27°06′34 retrograde 8379 Dec 24 14:02 27°€76′25′8 retrograde 8379 Dec 24 14:02 27°€76′25′8 retrograde 8379 Dec 31 07:36 24°€26′48 retrograde 8380 Jan 04 05:55 20°€40′23 0.65280 AU asc. node 8380 Jan 04 05:55 20°€40′23 0.65280 AU asc. node 8380 Jan 04 05:55 20°€40′23 0.65280 AU asc. node 8380 Jan 06 09:44 18°€31′457 -1°03′25 retrograde 8379 Jan 28 12:00 28°€39′33 retrograde 8380 Jan 06 11:36 18°60′41 1°02′27 retrograde 8379 Jan 28 12:00 28°€39′33 retrograde 8380 Jan 09 13:19 14°€56′44 retrograde 8379 Jan 28 12:00 28°€39′33 retrograde 8380 Jan 12 16:56 12°€41′45 retrograde 8379 Feb 07 04:17 1°≈21′26 18°35′13 retrograde 8380 Jan 12 16:56 12°€31′45 retrograde 8379 Feb 27 01:50 0°\mathematical 0°\mathematical 8380 Feb 13 05:17 19°≈21′49 retrograde 8379 Mar 15 02:59 26°\mathematical 1°4°725′34 retrograde 8379 Mar 15 02:09 26°\mathematical 1°4°725′34 retrograde 8379 Mar 15 02:00 26°\mathematical 1°4°38 retrograde 8380 Feb 13 05:17 19°≈21′49 retrograde 8379 Mar 18 04:24 0°\mathematical 0°\mathematica					dese. node			
transit middle transit begin 8379 Jan 22 15:00 4°≈24′52 0°00′54 retrograde 8379 Dec 24 14:02 27°502′58 transit begin 8379 Jan 22 117:53 4°≈33′40 evening set 8379 Dec 31 07:36 24°52′648 transit end 8379 Jan 22 117:53 4°≈16′05 min. Earth dist. 8380 Jan 04 05:55 20°₹d0′23 0.65280 AU asc. node 8379 Jan 22 16:16 4°≈21′01 inferior conj 8379 Jan 22 16:16 4°≈21′01 inferior conj 8379 Jan 22 16:53 30°₹♂ minimum elong 8380 Jan 06 09:44 18°₹d1⁴57 -1°03′25 asc. node 8380 Jan 06 11:36 18°₹d0′941 1°02′27 asc. node 8380 Jan 07 13:19 14°₹55′44 direct 8379 Jan 21 13:25 27°₹d6′40 morning rise 8380 Jan 12 16:56 12°₹d1¹45 direct 8379 Feb 07 04:17 1°≈21′26 18°35′13 morning max el 8379 Feb 07 04:17 1°≈21′26 18°35′13 morning max el 8379 Feb 27 01:50 0°₹ morning set 8380 Feb 19 19:31 0°₹ morning set 8379 Feb 27 01:50 0°₹ morning set 8380 Feb 19 19:31 0°₹ morning set 8379 Feb 27 23:47 1°¥26′36 desc. node 8380 Feb 19 19:31 0°₹ morning max el 8379 Feb 27 23:47 1°¥26′36 desc. node 8380 Feb 19 19:31 0°₹ morning set 8379 Mar 16 02:59 26°₹46′27 -1°47′26 minimum elong 8379 Mar 15 17:40 26°₹10′02 1°46′38 superior conj 8379 Mar 15 17:40 26°₹10′02 1°46′38 superior conj 8379 Mar 18 04:24 0°°₹ max. Earth dist. 8379 Mar 18 04:24 0°°₹ max. Earth dist. 8380 Mar 09 23:30 0°₹ sevening rise 8379 Apr 06 03:12 0°8 evening rise 8380 Mar 10 15:04 1°₹00′12 greatest brilliancy 8379 Apr 06 03:12 0°8 evening max el 8379 Apr 09 05:22 4°₹53′40 -0.8m greatest brilliancy 8380 Apr 09 15:06 21°₹53′01′59 evening max el 8380 Apr 06 12:11 8°₹35′50 19°37′04 evening max el 8379 Apr 29 15:06 21°₹52002 20°₹501′59 evening max el 8380 Apr 06 12:11 8°₹35′50 19°37′04 evening max el 8379 Apr 29 03:23 27°₹01′59 evening max el 8380 Apr 06 12:11 8°₹35′50 19°37′04 evening max el 8379 Apr 29 03:23 27°₹01′59 evening max el 8380 Apr 06 12:11 8°₹35′50 19°37′04 evening max el 8379 Apr 29 03:23 27°₹01′59 evening max el 8380 Apr 06 12:11 8°₹35′50 19°37′04 evening max el 8379 Apr 29 03:23 27°₹01′59 evening max el 8380 Apr 06 12:11 8°₹35′50 19°37′04 evening max el 8379 Apr 29 03:23 27°₹01′59	·				evening max el			27°06'34
transit begin 8379 Jan 22 12:08 4°≈33'40 evening set 8379 Dec 31 07:36 24°₹26'48 transit end 8379 Jan 22 17:53 4°≈16'05 min. Earth dist. 8380 Jan 04 05:55 20°₹40'23 0.65280 AU asc. node 8379 Jan 2 16:16 4°≈21'01 inferior conj 8380 Jan 06 09:44 18°₹014'57 -1°03'25 asc. node 8379 Jan 2 18:200 28°₹39'33 asc. node 8380 Jan 06 11:36 18°₹09'41 1°02'27 asc. node 8379 Feb 05 16:13 0°≈ minimum elong 8380 Jan 09 13:19 14°₹56'44 direct 8379 Feb 05 16:13 0°≈ direct 8380 Jan 12 16:56 12°₹64'45 asc. node 8380 Jan 12 16:56 12°₹63'12 asc. node 8379 Feb 07 04:17 1°≈21'26 18°35'13 morning max el 8379 Feb 26 08:21 28°≈51'02 8380 Feb 10 08:45 0°≈ 83	•				•			
transit end 8379 Jan 22 17:53 4°≈16'05 mini. Earth dist. 8380 Jan 04 05:55 20°₹40'23 0.65280 AU asc. node 8379 Jan 26 15:53 30°R♥ minimum elong 8380 Jan 06 09:44 18°♥14'57 -1°03'25 minimum elong 8380 Jan 06 09:44 18°♥14'57 -1°03'25 minimum elong 8380 Jan 06 11:36 18°♥09'41 1°02'27 minimum elong 8380 Jan 09 13:19 14°♥56'44 direct 8380 Jan 12 16:56 12°♥614'45 acc. node 8379 Feb 05 16:13 0°≈ direct 8380 Jan 12 16:56 12°♥614'45 acc. node 8379 Feb 05 16:13 0°≈ direct 8380 Jan 15 09:19 12°♥50'312 morning max el 8379 Feb 07 04:17 1°≈21'26 18°35'13 morning max el 8380 Feb 01 08:45 0°≈ morning set 8380 Feb 19 19:31 0°\% morning set 8380 Feb 27 01:50 0°\max. el 8379 Feb 27 02:347 1°\max. el 8379 Feb 27 02:347 1°\max. el 8379 Feb 2839 Feb 29 19:31 0°\max. el 8379 Mar 15 02:59 26°\max. el 46'38 superior conj 8379 Mar 15 17:40 26°\max. el 46'38 superior conj 8379 Mar 18 04:24 0°°\max. el 8379 Mar 31 18:04 21°\max. el 8379 Mar 09 05:22 4°\max. el 46'38 acc. node 8379 Mar 31 18:04 21°\max. el 8379 Mar 09 05:22 4°\max. el 46'38 superior conj 8380 Mar 09 23:30 0°\max. el 8379 Mar 31 18:04 21°\max. el 8379 Mar 09 05:22 4°\max. el 46'38 el 40'\max. el 40'\max. el 40'\max. el 8379 Mar 31 18:04 21°\max. el 8379 Mar 31 18:04 21°\max. el 40'\max. el 8379 Mar 31 18:04 21°\max. el 8379 Mar 31 18:04 21°\max. el 40'\max. el 40'\ma	transit begin				•	8379 Dec 31 07:36		
morning rise 8379 Jan 26 15:53 30°R		8379 Jan 22 17:53	4°≈16'05		-	8380 Jan 04 05:55	20° る 40'23	0.65280 AU
morning rise 8379 Jan 28 12:00 28°♂39'33 asc. node 8380 Jan 09 13:19 14°♂56'44 direct 8379 Jan 31 13:25 27°♂6'46'40 morning rise 8380 Jan 12 16:56 12°♂6'14'5 8379 Feb 05 16:13 0°≈ direct 8380 Jan 15 09:19 12°♂03'12 morning max el 8379 Feb 07 04:17 1°≈21'26 18°35'13 morning max el 8380 Jan 15 09:19 12°♂03'12 8380 Feb 26 08:21 28°≈51'02 8380 Feb 01 08:45 0°≈ 8379 Feb 27 01:50 0°升 morning set 8380 Feb 01 08:45 0°≈ 8379 Feb 27 23:47 1°升26'36 desc. node 8379 Feb 27 23:47 1°升26'36 superior conj 8379 Mar 16 02:59 26°升46'27 -1°47'26 minimum elong 8379 Mar 15 17:40 26°升10'2 1°46'38 superior conj 8380 Feb 23 10:51 5°升46'58 -1°09'29 max. Earth dist. 8379 Mar 15 20:02 26°升10'12 1°46'38 superior conj 8380 Feb 23 02:55 5°升15'36 1°08'25 8379 Mar 18 04:24 0°° max. Earth dist. 8380 Feb 23 02:55 5°升15'36 1°08'25 8379 Mar 18 04:24 0°° max. Earth dist. 8380 Feb 23 02:55 5°升15'36 1°08'25 8379 Mar 18 04:24 0°° max. Earth dist. 8380 Feb 23 02:55 5°升15'36 1°08'25 8379 Mar 31 18:04 21°°125'33 8380 Mar 09 23:30 0°° corp asc. node 8379 Apr 06 03:12 0°♂ 8379 Mar 06 03:12 0°♂ 8380 Mar 09 23:30 0°° corp asc. node 8379 Apr 20 15:06 21°♂20'02 evening rise 8380 Mar 29 23:39 0°♂ evening max el 8379 Apr 20 15:06 21°♂20'02 evening max el 8379 Apr 20 15:06 21°♂20'02 evening max el 8379 Apr 20 15:06 21°♂20'02 evening max el 8379 Apr 20 03:23 27°♂0'159 evening max el 8380 Apr 06 12:11 8°♂35'52 evening max el 8379 Apr 20 03:23 27°♂0'159 asc. node 8380 Apr 06 12:11 8°♂35'52	asc. node	8379 Jan 22 16:16	4° ≈ 21'01		inferior conj	8380 Jan 06 09:44	18° る 14'57	-1°03'25
direct 8379 Jan 31 13:25 27° ₹46′40 morning rise 8380 Jan 12 16:56 12° ₹41′45 40° ₹40′40		8379 Jan 26 15:53	30°₹₹		minimum elong	8380 Jan 06 11:36	18° ට 09'41	1°02'27
Morning max el 8379 Feb 05 16:13 0°≈ direct 8380 Jan 15 09:19 12°∃03'12 morning max el 8379 Feb 07 04:17 1°≈21'26 18°35'13 morning max el 8380 Jan 21 19:41 15°∃27'34 18°03'18 desc. node 8379 Feb 26 08:21 28°≈51'02 morning set 8380 Feb 01 08:45 0°≈	morning rise	8379 Jan 28 12:00	28° る 39'33		asc. node	8380 Jan 09 13:19	14° る 56'44	
morning max el 8379 Feb 07 04:17 1°≈21'26 18°35'13 morning max el 8380 Jan 21 19:41 15°₹27'34 18°03'18 desc. node 8379 Feb 26 08:21 28°≈51'02 morning set 8380 Feb 01 08:45 0°≈ morning set 8379 Feb 27 01:50 0° ★ morning set 8380 Feb 08 22:34 12°≈21'40 morning set 8379 Feb 27 23:47 1°★26'36 desc. node 8380 Feb 13 05:17 19°≈21'49 superior conj 8379 Mar 16 02:59 26° ★46'27 -1°47'26 minimum elong 8379 Mar 15 17:40 26° ★10'02 1°46'38 superior conj 8380 Feb 23 10:51 5° ★46'58 -1°09'29 max. Earth dist. 8379 Mar 15 20:02 26° ★19'18 1.45481 AU minimum elong 8380 Feb 23 02:55 5° ★15'36 1°08'25 superior conj 8379 Mar 18 04:24 0° ❤ max. Earth dist. 8380 Feb 26 15:23 10° ★48'24 1.45369 AU evening rise 8379 Mar 31 18:04 21° ❤25'33 evening rise 8380 Mar 09 23:30 0° ❤ greatest brilliancy 8379 Apr 09 05:22 4°♥53'40 -0.8m greatest brilliancy 8380 Mar 23 23:40 21° ❤24'46 -0.7m asc. node 8379 Apr 20 15:06 21° ♥20'02 evening max el 8380 Apr 06 12:11 8°♥35'52 10°37'04 retrograde 8379 Apr 29 03:23 27° ♥01'59 asc. node 8380 Apr 06 12:11 8°♥35'52 10° № 148' № 14	direct	8379 Jan 31 13:25	27° る 46'40		morning rise	8380 Jan 12 16:56	12° る 41'45	
desc. node 8379 Feb 26 08:21 28°≈51'02 morning set 8380 Feb 01 08:45 0°≈ morning set 8379 Feb 27 23:47 1° ★26'36 desc. node 8380 Feb 08 22:34 12°≈21'40 morning set 8379 Feb 27 23:47 1° ★26'36 desc. node 8380 Feb 13 05:17 19°≈21'49 superior conj 8379 Mar 16 02:59 26° ★46'27 -1°47'26 minimum elong 8379 Mar 15 17:40 26° ★10'02 1°46'38 superior conj 8380 Feb 23 10:51 5° ★46'58 -1°09'29 max. Earth dist. 8379 Mar 15 20:02 26° ★19'18 1.45481 AU minimum elong 8380 Feb 23 02:55 5° ★15'36 1°08'25 max. Earth dist. 8379 Mar 18 04:24 0° ♥ max. Earth dist. 8380 Mar 09 23:30 0° ♥ evening rise 8379 Apr 06 03:12 0° ♥ evening rise 8380 Mar 09 23:30 0° ♥ greatest brilliancy 8379 Apr 09 05:22 4° ♥53'40 -0.8m greatest brilliancy 8380 Mar 23 23:40 21° ♥24'46 -0.7m asc. node 8379 Apr 20 15:06 21° ♥20'02 evening max el 8380 Apr 04 17:28 6° ♥56'30 19°37'04 retrograde 8379 Apr 29 03:23 27° ♥01'59 asc. node 8380 Apr 06 12:11 8° ♥35'52		8379 Feb 05 16:13	0° ≈		direct	8380 Jan 15 09:19	12° る 03'12	
morning set 8379 Feb 27 01:50 0° ★ morning set 8380 Feb 08 22:34 12° ≈ 21'40 desc. node 8380 Feb 13 05:17 19° ≈ 21'49 8380 Feb 19 19:31 0° ★ superior conj 8379 Mar 16 02:59 26° ★ 46'27 -1° 47'26 minimum elong 8379 Mar 15 17:40 26° ★ 10'02 1° 46'38 superior conj 8380 Feb 23 10:51 5° ★ 46'58 -1° 09'29 max. Earth dist. 8379 Mar 15 20:02 26° ★ 19'18 1.45481 AU minimum elong 8380 Feb 23 02:55 5° ★ 15'36 1° 08'25 8379 Mar 18 04:24 0° ♀ max. Earth dist. 8379 Mar 18 04:24 0° ♀ max. Earth dist. 8379 Mar 18 04:24 0° ♀ evening rise 8380 Mar 09 23:30 0° ♀ greatest brilliancy 8379 Apr 06 03:12 0° ★ 19'18 1.45481 AU greatest brilliancy 8379 Apr 09 05:22 4° ★ 53'40 -0.8m greatest brilliancy 8380 Mar 23 23:40 21° ♀ 24'46 -0.7m asc. node 8379 Apr 20 15:06 21° ★ 20'02 evening max el 8379 Apr 20 15:06 21° ★ 20'02 evening max el 8379 Apr 20 03:23 27° ★ 19'28 18° 49'27 evening max el 8380 Apr 04 17:28 6° ★ 56'30 19° 37'04 retrograde 8379 Apr 29 03:23 27° ★ 01'59 asc. node 8380 Apr 06 12:11 8° ★ 35'52	morning max el	8379 Feb 07 04:17	1° ≈ 21′26	18°35'13	morning max el	8380 Jan 21 19:41	15° る 27'34	18°03'18
morning set 8379 Feb 27 23:47 1° ★26'36 desc. node 8380 Feb 13 05:17 19°≈21'49 8380 Feb 19 19:31 0° ★ superior conj 8379 Mar 16 02:59 26° ★46'27 -1°47'26 minimum elong 8379 Mar 15 17:40 26° ★10'02 1°46'38 superior conj 8380 Feb 23 10:51 5° ★46'58 -1°09'29 max. Earth dist. 8379 Mar 15 20:02 26° ★19'18 1.45481 AU minimum elong 8380 Feb 23 02:55 5° ★15'36 1°08'25 8379 Mar 18 04:24 0° ♀ max. Earth dist. 8380 Feb 26 15:23 10° ★48'24 1.45369 AU evening rise 8379 Mar 31 18:04 21° ♀25'33	desc. node	8379 Feb 26 08:21	28° ≈ 51′02			8380 Feb 01 08:45	0° ≈	
superior conj 8379 Mar 16 02:59 26° χ 46′27 -1°47′26 minimum elong 8379 Mar 15 17:40 26° χ 10′02 1°46′38 superior conj 8380 Feb 23 10:51 5° χ 46′58 -1°09′29 max. Earth dist. 8379 Mar 15 20:02 26° χ 19′18 1.45481 AU minimum elong 8380 Feb 23 02:55 5° χ 15′36 1°08′25 8379 Mar 18 04:24 0° γ max. Earth dist. 8380 Mar 09 23:30 0° γ evening rise 8379 Apr 06 03:12 0° γ evening rise 8380 Mar 09 23:30 0° γ greatest brilliancy 8379 Apr 06 03:12 0° γ evening rise 8380 Mar 10 15:04 1° γ00′12 greatest brilliancy 8379 Apr 09 05:22 4° 853′40 -0.8m greatest brilliancy 8380 Mar 23 23:40 21° γ24′46 -0.7m asc. node 8379 Apr 20 15:06 21° χ20′02 evening max el 8380 Mar 29 23:39 0° 8 evening max el 8379 Apr 29 03:23 27° χ01′59 evening max el 8380 Apr 04 17:28 6° ₹56′30 19°37′04 retrograde 8379 Apr 29 03:23 27° χ01′59 asc. node 8380 Apr 06 12:11 8° ₹35′52		8379 Feb 27 01:50	0°) €		morning set	8380 Feb 08 22:34	12° ≈ 21'40	
superior conj 8379 Mar 16 02:59 26° ¥46′27 -1°47′26 minimum elong 8379 Mar 15 17:40 26° ¥10′02 1°46′38 superior conj 8380 Feb 23 10:51 5° ¥46′58 -1°09′29 max. Earth dist. 8379 Mar 15 20:02 26° ¥19′18 1.45481 AU minimum elong 8380 Feb 23 02:55 5° ¥15′36 1°08′25 8379 Mar 18 04:24 0° Υ max. Earth dist. 8380 Feb 26 15:23 10° ¥48′24 1.45369 AU evening rise 8379 Mar 31 18:04 21° ¥25′33 21° ¥25′33 8380 Mar 09 23:30 0° Υ greatest brilliancy 8379 Apr 06 03:12 0° ♥ evening rise 8380 Mar 10 15:04 1° ¥00′12 1° ¥00′12 greatest brilliancy 8379 Apr 09 05:22 4° ₹53′40 -0.8m greatest brilliancy 8380 Mar 23 23:40 21° ¥24′46 -0.7m asc. node 8379 Apr 20 15:06 21° ₹20′02 21° ₹20′02 evening max el 8380 Mar 29 23:39 0° ₹ evening max el 8379 Apr 29 03:23 27° ₹01′59 18°49′27 evening max el 8380 Apr 04 17:28 6° ₹56′30 19°37′04	morning set	8379 Feb 27 23:47	1° ∺ 26'36		desc. node			
minimum elong max. Earth dist. 8379 Mar 15 17:40 26° \$\frac{1}{1002}\$ 1°46'38 superior conj 8380 Feb 23 10:51 5° \$\frac{1}{1005}\$ 46'58 -1°09'29 max. Earth dist. 8379 Mar 15 20:02 26° \$\frac{1}{1005}\$ 1.45481 AU minimum elong 8380 Feb 23 02:55 5° \$\frac{1}{1005}\$ 1.608'25 max. Earth dist. 8380 Feb 26 15:23 10° \$\frac{1}{1005}\$ 48'24 1.45369 AU evening rise 8379 Mar 31 18:04 21° \$\frac{1}{1005}\$ 25'33 evening rise 8380 Mar 09 23:30 0° \$\frac{1}{1005}\$ 48'24 1.45369 AU evening rise 8379 Apr 06 03:12 0° \$\frac{1}{1005}\$ 8379 Apr 09 05:22 4° \$\frac{1}{1005}\$ 50'30 100 Process and asc. node 8379 Apr 20 15:06 21° \$\frac{1}{1005}\$ 20'02 evening max el 8379 Apr 20 15:06 21° \$\frac{1}{1005}\$ 20'02 evening max el 8379 Apr 29 03:23 27° \$\frac{1}{1005}\$ 18° 49'27 evening max el 8380 Apr 06 12:11 8° \$\frac{1}{1005}\$ 35'52						8380 Feb 19 19:31	0°)	
max. Earth dist. 8379 Mar 15 20:02 8379 Mar 15 20:02 26° ★19'18 1.45481 AU minimum elong max. Earth dist. 8380 Feb 23 02:55 5° ★15'36 1°08'25 5° ★15'36 1°08'25 evening rise 8379 Mar 31 18:04 8379 Apr 06 03:12 0° ♥ 21° ♥25'33	superior conj	8379 Mar 16 02:59						
8379 Mar 18 04:24 0°Υ max. Earth dist. 8380 Feb 26 15:23 10° ₹48'24 1.45369 AU evening rise 8379 Mar 31 18:04 21° Υ25'33 8380 Mar 09 23:30 0° Υ greatest brilliancy 8379 Apr 06 03:12 0° ∀ evening rise 8380 Mar 10 15:04 1° Υ00'12 greatest brilliancy 8379 Apr 09 05:22 4° ₹53'40 -0.8m greatest brilliancy 8380 Mar 23 23:40 21° Υ24'46 -0.7m asc. node 8379 Apr 20 15:06 21° ₹20'02 8380 Mar 29 23:39 0° ₹ evening max el 8379 Apr 22 10:44 23° ₹19'28 18° 49'27 evening max el 8380 Apr 04 17:28 6° ₹56'30 19° 37'04 retrograde 8379 Apr 29 03:23 27° ₹01'59 asc. node 8380 Apr 06 12:11 8° ₹35'52	minimum elong			1°46'38				
evening rise 8379 Mar 31 18:04 8379 Apr 06 03:12 9°8 evening rise 8380 Mar 09 23:30 9°9 evening rise 8380 Mar 10 15:04 1°900'12 greatest brilliancy 8379 Apr 09 05:22 4°853'40 -0.8m greatest brilliancy 8380 Mar 10 15:04 1°900'12 21°924'46 -0.7m 8380 Mar 23 23:40 21°924'46 -0.7m 8380 Mar 29 23:39 9°8 evening max el 8379 Apr 20 15:06 21°820'02 evening max el 8379 Apr 22 10:44 23°819'28 18°49'27 evening max el 8380 Mar 09 23:30 9°9 8380 Mar 23 23:40 21°924'46 -0.7m 8380 Mar 29 23:39 9°8 6°856'30 19°37'04 retrograde 8379 Apr 29 03:23 27°801'59 asc. node 8380 Mar 09 15:04 8380 Mar 10 15:04 1°9700'12 8380 Mar 23 23:40 21°924'46 -0.7m 8380 Mar 29 23:39 9°8 6°856'30 19°37'04 retrograde	max. Earth dist.			1.45481 AU	Č			
8379 Apr 06 03:12 0°8 evening rise 8380 Mar 10 15:04 1°°00'12 greatest brilliancy 8379 Apr 09 05:22 4°853'40 -0.8m greatest brilliancy 8380 Mar 23 23:40 21°°024'46 -0.7m asc. node 8379 Apr 20 15:06 21°820'02 8380 Mar 29 23:39 0°8 evening max el 8379 Apr 22 10:44 23°819'28 18°49'27 evening max el 8380 Apr 04 17:28 6°856'30 19°37'04 retrograde 8379 Apr 29 03:23 27°801'59 asc. node 8380 Apr 06 12:11 8°835'52					max. Earth dist.			1.45369 AU
greatest brilliancy 8379 Apr 09 05:22 4°\853'40 -0.8m greatest brilliancy 8380 Mar 23 23:40 21°\724'46 -0.7m asc. node 8379 Apr 20 15:06 21°\820'02 8380 Mar 29 23:39 0°\80 evening max el 8379 Apr 22 10:44 23°\8019'28 18°\49'27 evening max el 8380 Apr 04 17:28 6°\8056'30 19°\37'04 retrograde 8379 Apr 29 03:23 27°\801'59 asc. node 8380 Apr 06 12:11 8°\835'52	evening rise					8380 Mar 09 23:30		
asc. node 8379 Apr 20 15:06 21°820'02 8380 Mar 29 23:39 0°8 evening max el 8379 Apr 22 10:44 23°819'28 18°49'27 evening max el 8380 Apr 04 17:28 6°856'30 19°37'04 retrograde 8379 Apr 29 03:23 27°801'59 asc. node 8380 Apr 06 12:11 8°835'52		•			-			
evening max el 8379 Apr 22 10:44 23°819'28 18°49'27 evening max el 8380 Apr 04 17:28 6°856'30 19°37'04 retrograde 8379 Apr 29 03:23 27°801'59 asc. node 8380 Apr 06 12:11 8°835'52		-		-0.8m	greatest brilliancy			-0.7m
retrograde 8379 Apr 29 03:23 27°801'59 asc. node 8380 Apr 06 12:11 8°835'52		•			_		_	
	•	•		18°49'27	•	*		19°37'04
evening set 85/9 May 02 10:54 25°\overline{5}8'47 retrograde 8380 Apr 12 00:50 11°\overline{5}07'10	•	-				-		
	evening set	83/9 May 02 10:54	25° O 58'47		retrograde	8380 Apr 12 00:50	11° 0 07'10	

evening set	8380 Apr 15 16:33	9° 8 49'10		evening max el	8381 Mar 18 18:54	20° Ƴ 35'32	20°30'05
inferior conj	8380 Apr 21 02:02	3° 8 53'27	3°19'41	asc. node	8381 Mar 24 09:16	20 γ 33 32 24° γ 48'49	20 39 03
•	-	3° 8 56'19	3°19'32		8381 Mar 26 23:19	25° Y 22'50	
minimum elong	8380 Apr 21 01:10	2° 8 20'34	0.67054 AU	retrograde		23° Y 49'34	
min. Earth dist.	8380 Apr 22 06:05	_	0.07034 AU	evening set	8381 Mar 31 00:15		2004140
	8380 Apr 24 02:40	30°RƳ		inferior conj	8381 Apr 05 07:45	17° Y ′41′00	3°04'40
morning rise	8380 Apr 26 09:28	27° Y 35'30		minimum elong	8381 Apr 05 06:01	17° Y 46'55	3°04'21
direct	8380 May 02 10:31	24°Υ54'09		min. Earth dist.	8381 Apr 05 21:52	16° Y ′52′28	0.67940 AU
desc. node	8380 May 11 05:03	29° Y 01'30		morning rise	8381 Apr 10 11:34	11° Υ 25'31	
	8380 May 12 08:04	0° 8		direct	8381 Apr 15 23:46	8° Ƴ 58'37	
morning max el	8380 May 14 15:50	2° 8 13'37	25°31'50	morning max el	8381 Apr 27 00:46	15° Ƴ 34'42	24°05'06
	8380 Jun 04 16:19	$\Pi^{\circ 0}$		desc. node	8381 Apr 28 02:01	16° Ƴ 40'07	
morning set	8380 Jun 19 18:38	25° Ⅱ 16'51			8381 May 08 20:59	0°8	
	8380 Jun 22 08:10	$0 {\circ} \mathfrak{S}$			8381 May 28 15:12	Π °0	
max. Earth dist.	8380 Jun 23 11:11	2° © 06'51	1.36044 AU	morning set	8381 Jun 01 14:58	6° Ⅱ 45'23	
				max. Earth dist.	8381 Jun 05 08:04	13° Ⅱ 16′19	1.38190 AU
superior conj	8380 Jun 29 10:05	13° © 41'52	-0°39'33				
minimum elong	8380 Jun 29 12:28	13° © 53'44	0°39'17	superior conj	8381 Jun 12 13:22	26° Ⅱ 36'17	-1°11'24
asc. node	8380 Jul 03 11:16	21° © 53'43		minimum elong	8381 Jun 12 17:47	26° Ⅱ 57'23	1°10'52
evening rise	8380 Jul 07 11:26	0° Ω 05'41			8381 Jun 14 07:51	0 \circ \odot	
	8380 Jul 07 10:19	$0^{\circ}\Omega$		asc. node	8381 Jun 20 08:16	11° © 47'29	
evening max el	8380 Jul 25 02:20	28° Ω 57'14	19°58'03	evening rise	8381 Jun 21 11:07	13° © 59'49	
	8380 Jul 26 05:08	0° m			8381 Jun 30 00:51	$0^{\circ}\Omega$	
retrograde	8380 Aug 04 10:45	4° m 03'41		evening max el	8381 Jul 07 21:45	10° Ω 43'56	19°00'24
evening set	8380 Aug 06 07:58	3° m 54'18		retrograde	8381 Jul 16 14:48	15° Ω 02'37	
desc. node	8380 Aug 07 04:10	3° Mp 44'17		evening set	8381 Jul 18 13:17	14° Ω 50'41	
inferior conj	8380 Aug 15 08:06	29° Ω 54'27	-2°28'30	desc. node	8381 Jul 25 01:16	11° Ω 49'04	
minimum elong	8380 Aug 15 01:19	0° m) 04'42		inferior conj	8381 Jul 26 20:28	10° Ω 35'36	-0°32'58
	8380 Aug 15 04:26	30°R Ω	,	minimum elong	8381 Jul 26 19:04	10° Ω 38'02	
min. Earth dist.	8380 Aug 17 05:30	28° Ω 45'55	0.55119 AU	min. Earth dist.	8381 Jul 29 19:48	8° Ω 32'19	0.56441 AU
morning rise	8380 Aug 23 17:01	25° Ω 37'34	0.55117710	morning rise	8381 Aug 03 21:41	5° Ω 42'48	0.50111110
direct	8380 Aug 28 04:44	24°Ω53'33		direct	8381 Aug 09 05:33	4°Ω35'58	
direct	8380 Sep 09 01:14	0°m		morning max el	8381 Aug 23 11:03	11° Ω 54'52	25°55'26
morning max el	8380 Sep 10 21:49	1°Mp38'55	24°16'44	morning max ci	8381 Sep 06 11:11	0°m)	23 33 20
asc. node	*	28° Mp 19'26	24 10 44	asc. node	8381 Sep 16 07:52	17° Mp 46'54	
asc. node	8380 Sep 29 10:54	0° ∵			8381 Sep 10 07.32 8381 Sep 20 08:24		
marning act	8380 Sep 30 07:53	0 <u>≈</u> 11° ≏ 20'37		morning set	*	26°Mp06'02 0°₽	
morning set	8380 Oct 05 21:15	11 == 2037			8381 Sep 22 03:54	0 ==	
superior conj	8380 Oct 12 18:42	26° ≏ 19'19	1°38'54	superior conj	8381 Sep 27 05:28	11° ≏ 08'59	1°30'41
minimum elong	8380 Oct 12 13:42 8380 Oct 12 17:42	26° ⊆ 13'54		minimum elong	8381 Sep 27 03:39	11 _ 0839 10° _ 58'59	
minimum ciong	8380 Oct 12 17:42 8380 Oct 14 11:24	0°M	1 30 33	max. Earth dist.	8381 Sep 28 03:39	13° ⊆ 11'30	1.32005 AU
max. Earth dist.	8380 Oct 14 11:24 8380 Oct 14 20:48	0°M50'38	1.32809 AU	evening rise	8381 Oct 04 05:19	26° £ 16'40	1.32003 AO
		11°M56'25	1.32009 AU	evening rise		0°M	
evening rise	8380 Oct 20 03:57			desc. node	8381 Oct 06 00:40		
1 1	8380 Oct 29 17:45	0° ⊀ 7		desc. node	8381 Oct 21 00:01	26°M43'02	
desc. node	8380 Nov 03 02:55	7° ₹ 21'00			8381 Oct 23 04:46	0° 🗷 159. ₹2912.4	27910110
	8380 Nov 19 19:13	0°궁	27020120	evening max el	8381 Nov 05 01:43	15° ₹ 38'24	2/*19/19
evening max el	8380 Nov 22 17:22	2°る57'37	27°28'28	retrograde	8381 Nov 18 21:49	22° 🗷 51'12	
retrograde	8380 Dec 06 09:42	10°る16'13		evening set	8381 Nov 25 23:46	20° ₹ 33'08	0.61674.477
evening set	8380 Dec 13 10:22	7°る44'22	0.62610.477	min. Earth dist.	8381 Nov 29 16:13	17° 🗷 43'51	
min. Earth dist.	8380 Dec 17 04:19	4° る 29'26		inferior conj	8381 Dec 02 16:37	15° ∡ '01'20	
inferior conj	8380 Dec 19 19:18	1° ろ 49'46		minimum elong	8381 Dec 02 22:56	14° ∡ °47′06	3°19'12
minimum elong	8380 Dec 19 23:26	1° る 39'17	2°09'29	morning rise	8381 Dec 10 00:19	10° ∡ '01'59 −	
	8380 Dec 21 15:44	30°R. ✓		direct	8381 Dec 12 06:01	9° ₰ ⁴40'36	
asc. node	8380 Dec 26 10:21	26° ₹ 35'42		asc. node	8381 Dec 13 07:24	9° ∡ ′45'31	
morning rise	8380 Dec 26 14:20	26° ₹ 31'44		morning max el	8381 Dec 19 05:08	13° ∡ 11'48	17°52'07
direct	8380 Dec 28 23:59	26° ₹ 03'34			8381 Dec 30 14:24	0°₹	
morning max el	8381 Jan 04 13:01	29° ₹ 27'02	17°48'39	morning set	8382 Jan 03 22:35	7° る 47'27	
		0° ろ					
morning set	8381 Jan 05 01:57					260753110	0°16'42
	8381 Jan 05 01:57 8381 Jan 21 00:21	24° පි 35'28		superior conj	8382 Jan 14 16:52	26° る 53'18	0 10 42
				superior conj minimum elong	8382 Jan 14 18:22	26°る53'18 26°る59'42	0°16'38
desc. node	8381 Jan 21 00:21	24° る 35'28					
desc. node	8381 Jan 21 00:21 8381 Jan 24 03:56	24°る35′28 0°≈		minimum elong	8382 Jan 14 18:22	26° る 59'42	
desc. node	8381 Jan 21 00:21 8381 Jan 24 03:56	24°る35′28 0°≈	-0°24'59	minimum elong	8382 Jan 14 18:22 8382 Jan 16 23:12	26° ප 59'42 0°≈44'57	
	8381 Jan 21 00:21 8381 Jan 24 03:56 8381 Jan 30 02:13	24° ට 35'28 0°≈ 10°≈01'01		minimum elong desc. node	8382 Jan 14 18:22 8382 Jan 16 23:12 8382 Jan 16 12:35	26° ප් 59'42 0°≈44'57 0°≈	0°16'38
superior conj	8381 Jan 21 00:21 8381 Jan 24 03:56 8381 Jan 30 02:13 8381 Feb 02 13:05	24°♂35'28 0°≈ 10°≈01'01 15°≈43'10		minimum elong desc. node max. Earth dist.	8382 Jan 14 18:22 8382 Jan 16 23:12 8382 Jan 16 12:35 8382 Jan 22 01:11	26° ප 59'42 0°≈44'57 0°≈ 9°≈12'03	0°16'38
superior conj minimum elong	8381 Jan 21 00:21 8381 Jan 24 03:56 8381 Jan 30 02:13 8381 Feb 02 13:05 8381 Feb 02 10:22	24°♂35′28 0°≈ 10°≈01′01 15°≈43′10 15°≈32′03	0°24'28	minimum elong desc. node max. Earth dist.	8382 Jan 14 18:22 8382 Jan 16 23:12 8382 Jan 16 12:35 8382 Jan 22 01:11 8382 Jan 28 19:16	26° ♂ 59'42 0°≈44'57 0°≈ 9°≈12'03 20°≈00'14	0°16'38
superior conj minimum elong	8381 Jan 21 00:21 8381 Jan 24 03:56 8381 Jan 30 02:13 8381 Feb 02 13:05 8381 Feb 02 10:22 8381 Feb 08 09:56	24° ♂ 35'28 0°≈ 10°≈01'01 15°≈43'10 15°≈32'03 25°≈11'31	0°24'28	minimum elong desc. node max. Earth dist.	8382 Jan 14 18:22 8382 Jan 16 23:12 8382 Jan 16 12:35 8382 Jan 22 01:11 8382 Jan 28 19:16 8382 Feb 04 07:09	26° ♂ 59'42 0°≈44'57 0°≈ 9°≈12'03 20°≈00'14 0°) €	0°16′38 1.43068 AU
superior conj minimum elong max. Earth dist.	8381 Jan 21 00:21 8381 Jan 24 03:56 8381 Jan 30 02:13 8381 Feb 02 13:05 8381 Feb 02 10:22 8381 Feb 08 09:56 8381 Feb 11 10:52	24°♂35′28 0°≈ 10°≈01′01 15°≈43′10 15°≈32′03 25°≈11′31 0°)€	0°24'28	minimum elong desc. node max. Earth dist. evening rise	8382 Jan 14 18:22 8382 Jan 16 23:12 8382 Jan 16 12:35 8382 Jan 22 01:11 8382 Jan 28 19:16 8382 Feb 04 07:09 8382 Feb 25 18:43	26°₹59'42 0°≈44'57 0°≈ 9°≈12'03 20°≈00'14 0°¥ 0°Υ	0°16'38 1.43068 AU

asc. node	8382 Mar 11 06:22	9° Ƴ 44'06		retrograde	8383 Feb 22 16:19	24°) €07'55	
evening set	8382 Mar 15 08:21	7° Υ 56'17		asc. node	8383 Feb 22 10:19 8383 Feb 26 03:30	24 \(\)(0733 23°\(\)(08'28	
•	8382 Mar 20 15:56	1° Υ 37'22	2°39'31		8383 Feb 20 03:30 8383 Feb 27 15:12	23 \(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\	
inferior conj				evening set			0.60202.411
minimum elong	8382 Mar 20 13:45	1° Υ '44'58 1° Υ '32'45	2°38'59	min. Earth dist.	8383 Mar 04 14:01	16° 光 15′06	0.68392 AU
min. Earth dist.	8382 Mar 20 17:15		0.68379 AU	inferior conj	8383 Mar 05 00:37	15°) (46112	2°05'15
	8382 Mar 21 20:06	30° ₹		minimum elong	8383 Mar 04 22:24	15°) (46′12	2°04'37
morning rise	8382 Mar 25 18:59	25°) €25'43		morning rise	8383 Mar 10 05:33	9°) 32′00	
direct	8382 Mar 30 17:10	23°) 18′53		direct	8383 Mar 14 13:48	7°) 47′26	
morning max el	8382 Apr 09 11:20	29°) €03'59	22°35'30	morning max el	8383 Mar 23 02:50	12°) 43′08	21°11'24
	8382 Apr 10 09:06	$0^{\circ}\Upsilon$		desc. node	8383 Apr 01 19:54	24°) 32′56	
desc. node	8382 Apr 14 22:58	5° Y 16′06			8383 Apr 05 17:35	0 ° $\mathbf{\Upsilon}$	
	8382 May 02 14:38	$8^{\circ 0}$		morning set	8383 Apr 23 01:52	26° Y 05′26	
morning set	8382 May 13 10:01	17° 8 02'32			8383 Apr 25 13:10	9° 8	
max. Earth dist.	8382 May 18 05:25	25° 8 04'03	1.40447 AU	max. Earth dist.	8383 Apr 30 08:08	7° 8 43'51	1.42526 AU
	8382 May 21 02:16	Π $^{\circ}0$					
				superior conj	8383 May 07 14:09	19° 8 51'38	-2°02'53
superior conj	8382 May 26 00:19	8° Ⅱ 43'15	-1°40'42	minimum elong	8383 May 07 19:04	20° 8 12'40	2°02'44
minimum elong	8382 May 26 06:06	9° Ⅱ 09'26	1°40'12		8383 May 13 09:53	Π $^{\circ}0$	
evening rise	8382 Jun 05 01:13	27° Ⅲ 23'55		evening rise	8383 May 19 01:37	10° Ⅲ 07'33	
	8382 Jun 06 10:20	0°€		asc. node	8383 May 25 02:23	20° Ⅲ 53′07	
asc. node	8382 Jun 07 05:19	1° © 29'06			8383 May 30 16:46	0°ಅ	
evening max el	8382 Jun 21 02:50	23° © 09'39	18°23'27	evening max el	8383 Jun 04 13:49	6° © 05'30	18°06'36
retrograde	8382 Jun 28 14:04	26° © 53'49		retrograde	8383 Jun 11 06:47	9° 5 30'38	
evening set	8382 Jun 30 19:05	26°935'05		evening set	8383 Jun 13 19:20	9° 5 01'49	
inferior conj	8382 Jul 08 06:25	21°559'53	1°04'06	inferior conj	8383 Jun 20 13:02	4°906'34	2°13'22
minimum elong	8382 Jul 08 08:32	21°955'34	1°03'12	minimum elong	8383 Jun 20 16:05	3° © 59'21	2°12'22
min. Earth dist.	8382 Jul 11 15:36	19° © 15'31	0.58385 AU	min. Earth dist.	8383 Jun 23 18:59	1° © 03'19	0.60613 AU
desc. node	8382 Jul 11 13:30 8382 Jul 11 22:20	19° 5 02'36	0.36363 AU	IIIII. Lattii uist.	8383 Jun 25 00:13	1 €303 19 30°R∏	0.00013 AU
						28° ∏ 12'27	
morning rise	8382 Jul 15 18:38	16°931'38		morning rise	8383 Jun 27 10:11		
direct	8382 Jul 21 20:30	14°954'41	27010110	desc. node	8383 Jun 28 19:24	27° Ⅱ 24'21	
morning max el	8382 Aug 05 05:56	22° © 37'34	27°10'18	direct	8383 Jul 04 00:10	26° Ⅱ 04'22	
	8382 Aug 11 19:07	0° N			8383 Jul 13 16:58	0.20	
	8382 Aug 30 10:44	0° т р		morning max el	8383 Jul 18 07:42	4° © 02'19	27°50'13
asc. node	8382 Sep 03 04:50	7° m 31'45			8383 Aug 06 12:31	0 $^{\circ}\Omega$	
morning set	8382 Sep 04 17:19	10° Mp 42'15		morning set	8383 Aug 19 22:11	25° Ω 04'20	
				asc. node	8383 Aug 21 01:49	27° Ω 28'39	
superior conj	8382 Sep 11 17:17	25° Mp 58′23	1°17'09		8383 Aug 22 06:24	0° m/	
minimum elong	8382 Sep 11 15:04	25° Mp 46′05	1°16'50	max. Earth dist.	8383 Aug 25 23:05	8° m 01'01	1.31759 AU
max. Earth dist.	8382 Sep 11 13:41	25° M 38'25	1.31652 AU				
	8382 Sep 13 12:49	0∘ ⊽		superior conj	8383 Aug 27 04:22	10° m 42'20	0°58'43
evening rise	8382 Sep 18 12:12	10° ≙ 50'12		minimum elong	8383 Aug 27 02:13	10° Mp 30'26	0°58'17
	8382 Sep 28 06:19	0° M		evening rise	8383 Sep 02 22:26	25°M 31'02	
desc. node	8382 Oct 07 21:06	15°M21'36			8383 Sep 05 01:19	0∘ ⊽	
evening max el	8382 Oct 18 03:36	27°M32'17	26°36'16		8383 Sep 22 10:01	0° M.	
	8382 Oct 20 23:35	0° ∡ ¹		desc. node	8383 Sep 24 18:12	2°M59'43	
retrograde	8382 Nov 01 01:30	4° ∡ ³39'31		evening max el	8383 Sep 29 21:27	8°M35'32	25°22'11
evening set	8382 Nov 07 19:32	2° ∡ ¹45'49		retrograde	8383 Oct 13 19:14	15°M37'06	
min. Earth dist.	8382 Nov 11 17:15	0° ∡ 10'33	0.59586 AU	evening set	8383 Oct 19 16:51	14°M16'59	
	8382 Nov 11 22:49	30°RM₀		min. Earth dist.	8383 Oct 24 09:24	11°MJ38'05	0.57554 AU
inferior conj	8382 Nov 14 22:09	27°M39'55	-4°27'44	inferior conj	8383 Oct 27 08:40	9°M36'39	-5°18'13
minimum elong	8382 Nov 15 05:29	27°M25'30		minimum elong	8383 Oct 27 13:57	9°M27'37	
morning rise	8382 Nov 22 17:48	23°M02'30		morning rise	8383 Nov 04 13:24	5°M22'05	
direct	8382 Nov 24 23:07	22°M44'41		direct	8383 Nov 06 22:54	5°M04'54	
asc. node	8382 Nov 30 04:27	24°M29'02		morning max el	8383 Nov 15 19:43	9°M19'28	18°58'52
morning max el	8382 Dec 02 16:35	26°M32'38	18°14'58	asc. node	8383 Nov 17 01:28	10°M35'26	10 30 32
morning max ci	8382 Dec 02 10:33 8382 Dec 05 17:22	20 11 0 32 38	10 14 30	asc. Houc	8383 Nov 17 01:28 8383 Nov 29 08:24	10 11 6 33 20	
morning set	8382 Dec 03 17:22 8382 Dec 18 11:15	21° ₹ 39'15		morning set	8383 Dec 02 09:53	5° ₹ 158'13	
morning set		21 メ ・3913		morning set	8383 Dec 02 09.33	3 × 36 13	
	8382 Dec 22 21:11	υS		gunorior co	9292 Dag 10 10:01	220.722120	1015120
	0202 D 27 20 20	00=11115	0050120	superior conj	8383 Dec 10 19:01	22° 🖈 23'20	1°15'29
superior conj	8382 Dec 27 20:28	9°₹11'17	0°50'38	minimum elong	8383 Dec 10 22:13	22° ⋠ 38'39	1°15'18
minimum elong	8382 Dec 27 23:44	9°₹26'04	0°50'22		8383 Dec 14 20:17	0°る	1 20222 :==
desc. node	8383 Jan 03 20:10	21°る29'43		max. Earth dist.	8383 Dec 17 17:20	5°る13'06	1.38992 AU
max. Earth dist.	8383 Jan 04 11:20	22° る 34'18	1.41142 AU	evening rise	8383 Dec 21 13:44	11°る57'28	
_	8383 Jan 08 22:20	0° ≈		desc. node	8383 Dec 21 17:10	12°る12'09	
evening rise	8383 Jan 09 05:30	0° ≈ 29'16			8384 Jan 01 16:51	0° ≈	
	8383 Jan 28 18:28	0° ∀			8384 Jan 24 03:39	0° ∀	
evening max el	8383 Feb 12 06:47	17° ¥ 58'31	23°11'23	evening max el	8384 Jan 25 20:22	1°) (44′29	24°30'50

ratragrada	8384 Feb 06 08:00	8°) €27'34		ovening set	8385 Jan 25 18:54	20°≈10'20	
retrograde				evening set			
evening set	8384 Feb 11 19:16	6°) 10'45		asc. node	8385 Jan 29 21:41	15°≈45'25	0.67226.477
asc. node	8384 Feb 13 00:36	5° ∺ 01'42		min. Earth dist.	8385 Jan 30 02:41	15° ≈ 29'47	0.67236 AU
min. Earth dist.	8384 Feb 16 09:57	0° ¥ 55'35	0.68007 AU	inferior conj	8385 Jan 31 12:05	13° ≈ 43'49	0°31'42
inferior conj	8384 Feb 17 07:58	29° ≈ 41'58	1°22'31	minimum elong	8385 Jan 31 11:17	13° ≈ 46′20	0°31'31
minimum elong	8384 Feb 17 06:12	29° ≈ 47'54	1°21'57	morning rise	8385 Feb 06 04:09	7° ≈ 52'14	
	8384 Feb 17 02:35	30°R≈		direct	8385 Feb 09 11:40	6° ≈ 49'15	
morning rise	8384 Feb 22 17:16	23° ≈ 41'54		morning max el	8385 Feb 16 08:23	10° ≈ 35′03	19°01'00
direct	8384 Feb 26 12:28	22°≈19'14		greatest brilliancy	8385 Mar 02 06:02	29° ≈ 22'48	-0.8m
morning max el	8384 Mar 05 01:44	26° ≈ 34'02	19°58'45	· ·	8385 Mar 02 15:48	0°) €	
morning man vi	8384 Mar 08 04:37	0° ∀	1, 00 10	desc. node	8385 Mar 05 13:46	4°) €28'24	
desc. node	8384 Mar 18 16:50	14° ¥ 19'43		morning set	8385 Mar 11 04:32	13°) 10′10	
desc. Hode		0° Υ		morning set		0° Υ	
	8384 Mar 29 03:13				8385 Mar 21 23:47		
morning set	8384 Apr 01 00:14	4° Y 24'56		max. Earth dist.	8385 Mar 25 09:39	5° Y 20'47	1.45216 AU
max. Earth dist.	8384 Apr 11 17:43	21° Y 12'57	1.44179 AU				
				superior conj	8385 Mar 27 18:21	9° Ƴ 03'55	-2°02'14
superior conj	8384 Apr 17 03:27	29° Ƴ 55′28	-2°11'57	minimum elong	8385 Mar 27 11:28	8° Ƴ 36'48	2°01'53
minimum elong	8384 Apr 17 03:35	29° Ƴ 56′00	2°12'03		8385 Apr 09 20:07	0° ႘	
_	8384 Apr 17 04:34	0°B		evening rise	8385 Apr 11 15:00	2° 8 54'41	
evening rise	8384 Apr 30 07:34	22° 8 00'03		asc. node	8385 Apr 27 20:31	28° 8 21'21	
e vennig rise	8384 May 04 23:39	0°II		use. Houe	8385 Apr 29 03:05	0°II	
aga mada	8384 May 10 23:27	9° П 53'09		evening max el	8385 May 01 15:50	2° П 51'28	18°29'37
asc. node	-		10000156	Č	,		18 29 37
evening max el	8384 May 18 03:10	19° Ⅱ 22'03	18°08'56	retrograde	8385 May 08 03:13	6° Ⅱ 22'12	
retrograde	8384 May 24 12:35	22° ∏ 43'06		evening set	8385 May 11 06:32	5° Ⅱ 27'07	
evening set	8384 May 27 08:33	22° Ⅱ 01'51			8385 May 16 23:06	30° ₹8	
inferior conj	8384 Jun 02 12:28	16° Ⅱ 47'43	2°56'26	inferior conj	8385 May 17 00:38	29° 8 55'28	3°18'07
minimum elong	8384 Jun 02 14:51	16° Ⅱ 41′21	2°55'50	minimum elong	8385 May 17 01:43	29° 8 52'14	3°17'53
min. Earth dist.	8384 Jun 05 07:08	13° Ⅱ 49'36	0.62822 AU	min. Earth dist.	8385 May 19 04:27	27° 8 21'52	0.64778 AU
morning rise	8384 Jun 08 19:30	10° Ⅲ 38'36		morning rise	8385 May 22 20:03	23° 8 39'20	
desc. node	8384 Jun 14 16:26	8° Ⅱ 08'50		direct	8385 May 29 11:42	20° 8 54'25	
direct	8384 Jun 15 13:56	8° Ⅱ 06'17		desc. node	8385 Jun 01 13:26	21° 8 25'04	
morning max el	8384 Jun 29 14:41		27°51'47	morning max el	8385 Jun 12 00:33	28° 8 50'59	27010111
morning max er			2/ 314/	morning max er			2/ 1011
	8384 Jul 10 23:48	0°©			8385 Jun 13 03:15	0° I	
	8384 Jul 29 05:17	$0^{\circ}\Omega$			8385 Jul 04 20:06	0	
morning set	8384 Aug 02 20:48	9° Ω 05'16		morning set	8385 Jul 17 10:34	22° © 38'02	
asc. node	8384 Aug 06 22:46	17° Ω 32'09			8385 Jul 21 03:17	$0 { m ^o} \Omega$	
max. Earth dist.	8384 Aug 08 03:56	20° Ω 07'22	1.32345 AU	max. Earth dist.	8385 Jul 22 00:44	1° Ω 49'42	1.33420 AU
				asc. node	8385 Jul 24 19:44	7° Ω 38'26	
superior conj	8384 Aug 10 12:49	25° Ω 14'26	0°35'46				
minimum elong	8384 Aug 10 11:15	25° Ω 05'52		superior conj	8385 Jul 25 16:40	9° Ω 29'00	0°08'49
minimum ciong	8384 Aug 12 17:10	0° m	0 33 20	minimum elong	8385 Jul 25 16:13	9° Ω 26'39	0°08'35
	•			•			0 00 33
evening rise	8384 Aug 17 10:01	10° m 12'36		behind sun begin	8385 Jul 25 11:30	9° Ω 01'43	
	8384 Aug 27 11:52	0∘ ⊽		behind sun end	8385 Jul 25 20:55	9° Ω 51'37	
evening max el	8384 Sep 10 09:23	18° ≏ 58'50	23°47'28	evening rise	8385 Aug 01 21:07	24° Ω 49'36	
desc. node	8384 Sep 10 15:19	19° ≏ 13'03			8385 Aug 04 08:40	0° m y	
retrograde	8384 Sep 24 00:29	25° ≏ 48'05		evening max el	8385 Aug 22 22:38	29° m 12'24	22°08'30
evening set	8384 Sep 28 13:28	25° ♀ 02'59			8385 Aug 23 18:41	0∘ ত	
min. Earth dist.	8384 Oct 04 19:48	22° ≏ 01'53	0.55876 AU	desc. node	8385 Aug 28 12:24	3° ≏ 31'45	
inferior conj	8384 Oct 06 22:49	20° ≏ 45′05		retrograde	8385 Sep 04 17:30	5° Ω 33'57	
minimum elong	8384 Oct 06 21:48	20° £ 46'36		evening set	8385 Sep 07 19:01	5° ≙ 13'08	
morning rise	8384 Oct 15 08:15	16° ≏ 49'32	2 22 00	min. Earth dist.	8385 Sep 16 03:58	1° ≏ 34'41	0.54869 AU
direct	8384 Oct 18 03:22	16° ⊆ 29'50		inferior conj	8385 Sep 16 20:32	1° ⊆ 11'26	
			2000511.1	-	-		
morning max el	8384 Oct 28 11:00	21° Ω 20'58	20°05'11	minimum elong	8385 Sep 16 12:31	1° ≏ 22'41	4°59'11
asc. node	8384 Nov 02 22:27	27° ≏ 48'18			8385 Sep 19 00:13	30°₽.₩	
	8384 Nov 04 10:27	0°M₊		morning rise	8385 Sep 25 07:34	27° m) 23'27	
morning set	8384 Nov 15 15:05	20°M33'51		direct	8385 Sep 28 16:22	26° Mp 58′14	
	8384 Nov 20 05:37	0° ∡			8385 Oct 07 09:58	0∘ ⊽	
				morning max el	8385 Oct 10 13:09	2° ₽ 33'02	21°32'55
superior conj	8384 Nov 23 07:27	6° ₰ 14'09	1°31'35	asc. node	8385 Oct 20 19:25	15° ≏ 53'21	
minimum elong	8384 Nov 23 09:39	6° ₹ 25'11	1°31'34		8385 Oct 28 10:13	0°M	
max. Earth dist.	8384 Nov 28 23:33	17° ₹ 18'23	1.36866 AU	morning set	8385 Oct 31 00:19	5°M19'19	
			1.50000 AU	morning set	0303 001 31 00.19	J 1161717	
evening rise	8384 Dec 02 18:36	24° ⋠ 19'50		·	0205 NI 07 05 45	200m 2212 7	1020147
	8384 Dec 05 23:17	0°る		superior conj	8385 Nov 07 05:47	20°M32'35	1°39'47
desc. node	8384 Dec 07 14:11	2° る 47'33		minimum elong	8385 Nov 07 06:40	20°M37'12	1°39'53
	8384 Dec 25 08:31	0° ≈		max. Earth dist.	8385 Nov 11 11:10	29°M11'48	1.34980 AU
evening max el	8385 Jan 07 09:34	15° ≈ 32'21	25°43'35		8385 Nov 11 20:49	0° ∡ ¹	
retrograde	8385 Jan 19 19:00	22° ≈ 38′06		evening rise	8385 Nov 15 16:34	7° ∡ °27'20	
-							

desc. node	8385 Nov 24 11:13	23° ҳ 11'19			8386 Nov 03 18:00	0° ∡ ″	
dese. Hode	8385 Nov 28 15:08	0°중		desc. node	8386 Nov 11 08:16	13° √ 17'51	
evening max el	8385 Dec 20 22:54	29° る 15'33	26°42'10	dese. Hode	8386 Nov 22 12:27	0°る	
evening max er	8385 Dec 21 17:42	0°≈	20 12 10	evening max el	8386 Dec 03 11:39	12° る 44'10	27°19'22
retrograde	8386 Jan 03 00:24	6°≈32'55		retrograde	8386 Dec 16 23:50	20°る04'33	2, 1, 22
evening set	8386 Jan 09 12:15	3°≈58'07		evening set	8386 Dec 23 21:10	17°る28'55	
evening set	8386 Jan 13 11:12	30°Rる		min. Earth dist.	8386 Dec 27 17:20	17 3 2633	0.64605 AU
min. Earth dist.	8386 Jan 13 13:52	29°る52'19	0.66096 AU	inferior conj	8386 Dec 27 17:20 8386 Dec 30 02:06	13 3 30 4 2	
inferior conj	8386 Jan 15 10:54	27°る39'29		minimum elong	8386 Dec 30 04:54	11° ට 16'24	
minimum elong	8386 Jan 15 11:39	27° る 39'29	0°26'12	asc. node	8387 Jan 03 15:47	7°る04'39	1 30 16
asc. node	8386 Jan 16 18:44	26° る 06'59	0 20 12		8387 Jan 05 14:10	7 30439 5° る 57'04	
	8386 Jan 21 11:59	20 00039 21° る 58'49		morning rise	8387 Jan 03 14.10 8387 Jan 08 03:29	5°る3704 5°る23'20	
morning rise				direct			17055104
direct	8386 Jan 24 09:26	21°る12'20	1001010	morning max el	8387 Jan 14 13:59	8° る 45'54	17°55'04
morning max el	8386 Jan 30 21:19	24° පි 41'07	18°19'36		8387 Jan 29 00:58	0° ≈	
	8386 Feb 04 08:41	0°≈		morning set	8387 Jan 31 21:15	4°≈46'00	
morning set	8386 Feb 19 10:14	23°≈14'37		desc. node	8387 Feb 07 07:38	15° ≈ 27'46	
desc. node	8386 Feb 20 10:42	24°≈52'34					
	8386 Feb 23 15:40	0° ∀		superior conj	8387 Feb 14 13:18	27° ≈ 12'28	
				minimum elong	8387 Feb 14 07:28	26° ≈ 49'05	0°49'54
superior conj	8386 Mar 06 23:09	17° ∺ 51'46			8387 Feb 16 07:18	0° ∀	
minimum elong	8386 Mar 06 13:36	17° ∺ 14'20	1°31'49	max. Earth dist.	8387 Feb 19 00:53	4°) 19'40	1.45095 AU
max. Earth dist.	8386 Mar 08 05:12	19°) 49′28	1.45530 AU	evening rise	8387 Mar 02 14:29	22°) 18′39	
	8386 Mar 14 17:23	0 ° $\mathbf{\gamma}$			8387 Mar 07 15:06	0 ° Υ	
evening rise	8386 Mar 22 23:13	12° Ƴ 54'13		greatest brilliancy	8387 Mar 17 08:09	14° Y 33'25	-0.6m
greatest brilliancy	8386 Apr 02 16:07	29° Ƴ 36′29	-0.8m	evening max el	8387 Mar 29 05:47	0° 8 05'05	20°01'43
	8386 Apr 02 22:15	0°8			8387 Mar 29 03:47	0° ႘	
asc. node	8386 Apr 14 17:35	16° 8 07'13		asc. node	8387 Apr 01 14:41	2° 8 58'38	
evening max el	8386 Apr 15 01:15	16° 8 26'53	19°07'43	retrograde	8387 Apr 05 21:26	4° 8 30'46	
retrograde	8386 Apr 21 23:06	20° 8 19'52		evening set	8387 Apr 09 16:55	3° 8 06'13	
evening set	8386 Apr 25 10:06	19° 8 10'14			8387 Apr 12 19:21	30° ŖƳ	
inferior conj	8386 Apr 30 21:51	13° 8 22'35	3°23'04	inferior conj	8387 Apr 15 01:14	27° Y ′04'28	3°14'40
minimum elong	8386 Apr 30 21:39	13° 8 23'16	3°22'57	minimum elong	8387 Apr 14 23:58	27° Y ′08'45	3°14'26
min. Earth dist.	8386 May 02 10:16	11° 8 25'51	0.66351 AU	min. Earth dist.	8387 Apr 15 23:08	25° Y 50'29	0.67487 AU
morning rise	8386 May 06 08:46	7° 8 04'23		morning rise	8387 Apr 20 06:47	20° Ƴ 47'13	
direct	8386 May 12 16:07	4° 8 18'57		direct	8387 Apr 26 02:26	18° Y 11'23	
desc. node	8386 May 19 10:26	6°846'54		desc. node	8387 May 06 07:26	23° Y 43'38	
morning max el	8386 May 25 10:57	11° 8 55'59	26°16'28	morning max el	8387 May 07 20:32	25°Υ14'06	24°55'54
morning max er	8386 Jun 08 21:43	0° Ⅱ	20 1020	morning max er	8387 May 12 04:20	0°8	24 33 34
	8386 Jun 27 11:26	0°©			8387 Jun 02 09:35	0°U	
morning set	8386 Jun 30 11:59	5°932'34		morning set	8387 Jun 12 20:34	17° Ⅱ 37'18	
max. Earth dist.	8386 Jul 04 11:00	13° 9 06'02	1.34969 AU	max. Earth dist.	8387 Jun 16 11:25	24° Ⅱ 10'15	1.36932 AU
max. Earth dist.	8380 Jul 04 11.00	13 900 02	1.34909 AU	max. Earth dist.	8387 Jun 19 14:08	0°95	1.30932 AU
	9297 Il 00 12-25	2296219120	0921110		838/Jun 19 14:08	0-50	
superior conj	8386 Jul 09 13:25	23°5518'39			0207 I 22 00.00	(0000515)	0952100
minimum elong	8386 Jul 09 14:38	23°524'55	0 21 14	superior conj	8387 Jun 23 00:08	6°935'56	
asc. node	8386 Jul 11 16:42	27°542'59		minimum elong	8387 Jun 23 03:24	6°951'56	0-3243
	8386 Jul 12 19:04	0°N		asc. node	8387 Jun 28 13:43	17°5542'04	
evening rise	8386 Jul 17 05:41	9° Ω 15'21		evening rise	8387 Jul 01 09:26	23° © 23'29	
i- 1	8386 Jul 28 06:58	0° M)	20040110		8387 Jul 04 17:25	0°Ω	10020150
evening max el	8386 Aug 04 21:32	9° m 50'09	20°40'18	evening max el	8387 Jul 18 09:47	21°Ω11'23	19°30'50
desc. node	8386 Aug 15 09:30	15° m 25'08		retrograde	8387 Jul 28 00:59	25° Ω 56'50	
retrograde	8386 Aug 16 05:39	15° m/26'54		evening set	8387 Jul 29 21:23	25° Ω 47'04	
evening set	8386 Aug 18 07:57	15° m) 16'11		desc. node	8387 Aug 02 06:37	24° Ω 43'28	
inferior conj	8386 Aug 27 13:05	11° m)19'15		inferior conj	8387 Aug 07 15:09	21° Ω 41'40	
minimum elong	8386 Aug 27 03:59	11°Mp32'16		minimum elong	8387 Aug 07 10:41	21° Ω 48'48	1°36'52
min. Earth dist.	8386 Aug 28 13:06	10° m 44'48	0.54752 AU	min. Earth dist.	8387 Aug 10 01:27	20° Ω 08'44	0.55584 AU
morning rise	8386 Sep 04 23:51	7° m) 18'46		morning rise	8387 Aug 15 21:30	17° Ω 09'51	
direct	8386 Sep 09 00:37	6° Mp 43′58		direct	8387 Aug 20 17:25	16° Ω 17'26	
morning max el	8386 Sep 22 05:09	13° m 04'36	23°15'51	morning max el	8387 Sep 03 17:38	23° Ω 18′52	25°00'47
	8386 Oct 05 00:54	0ಂ ಹ			8387 Sep 09 18:14	0° ™	
asc. node	8386 Oct 07 16:22	4° £ 38'14		asc. node	8387 Sep 24 13:20	23° m 52'42	
morning set	8386 Oct 15 11:40	20° ≏ 09'12			8387 Sep 27 14:34	0∘ ⊽	
	8386 Oct 20 01:32	0° M		morning set	8387 Sep 29 23:20	4° ≙ 57'47	
superior conj	8386 Oct 22 10:53	5° M 09'35	1°41'01	superior conj	8387 Oct 06 20:12	19° £ 56'54	1°36'05
minimum elong	8386 Oct 22 10:30	5°ML07'34	1°41'07	minimum elong	8387 Oct 06 20:12 8387 Oct 06 18:48	19 2 30 34 19° 2 49'18	1°36'03
_							
may Farth diet				_			
max. Earth dist. evening rise	8386 Oct 25 06:50 8386 Oct 30 03:48	11°M11'19 21°M10'24	1.33469 AU	max. Earth dist.	8387 Oct 08 10:06 8387 Oct 11 11:40	23° £ 24'08 0° ™	1.32402 AU

evening rise	8387 Oct 14 00:51	5° M 19'32		morning set	8388 Sep 13 09:46	19° m 40'31	
evening rise	8387 Oct 14 00:51 8387 Oct 27 08:54	0° √		morning set	8388 Sep 18 03:41	0∘ ⊽	
desc. node	8387 Oct 27 08:34 8387 Oct 29 05:20	2° х 59'03			6366 Sep 16 03.41	0 ==	
evening max el	8387 Oct 25 03:20 8387 Nov 15 22:09	25° × ⁷ 45'35	27°28'39	superior conj	8388 Sep 20 07:41	4° ≏ 48'05	1°25'34
evening max er	8387 Nov 21 03:26	25 × 45 55	27 2037	minimum elong	8388 Sep 20 05:39	4° £ 36'48	1°25'21
retrograde	8387 Nov 29 16:36	³° ठ 02'53		max. Earth dist.	8388 Sep 20 18:36	5° Ω 48'35	1.31797 AU
evening set	8387 Dec 06 18:44	0° る 35'17		evening rise	8388 Sep 27 04:54	19° ≏ 47'04	1.51777710
evening set	8387 Dec 07 14:16	30°R. ₹		evening rise	8388 Oct 02 05:45	0°M	
min. Earth dist.	8387 Dec 10 11:19	27° × 32'32	0.62806 AU	desc. node	8388 Oct 15 02:27	22°M04'44	
inferior conj	8387 Dec 13 06:50	24° х 49'40		dese. node	8388 Oct 20 20:26	0° √	
minimum elong	8387 Dec 13 11:57	24° × ⁷ 37'18		evening max el	8388 Oct 28 04:04	8° ⋌ ¹07'58	27°05'11
morning rise	8387 Dec 20 07:16	19° × 39'31	2 3 , 00	retrograde	8388 Nov 11 01:35	15° √ 18'48	2, 00 11
asc. node	8387 Dec 21 12:51	19° ₹ 20'15		evening set	8388 Nov 18 01:13	13° √ 09'59	
direct	8387 Dec 22 14:46	19° √ 14'47		min. Earth dist.	8388 Nov 21 18:48	10° ≯ ′28'08	0.60790 AU
morning max el	8387 Dec 29 07:17	22° х 40'34	17°47'57	inferior conj	8388 Nov 24 21:52	7° ∡ ¹48'37	
	8388 Jan 04 00:39	0°₹		minimum elong	8388 Nov 25 04:52	7° ∡ ³33'44	
morning set	8388 Jan 14 08:29	17° る 26'32		morning rise	8388 Dec 02 10:52	2° ₹ 58'12	
3	8388 Jan 21 13:30	0° ≈		direct	8388 Dec 04 15:45	2° ҂ ³38'49	
desc. node	8388 Jan 25 04:34	6°≈09'20		asc. node	8388 Dec 07 09:53	3° х 10′27	
				morning max el	8388 Dec 11 21:50	6° √ 16'26	17°59'20
superior conj	8388 Jan 26 02:12	7° ≈ 39'51	-0°06'37		8388 Dec 27 01:05	0°る	
minimum elong	8388 Jan 26 01:32	7° ≈ 37'06	0°06'22	morning set	8388 Dec 27 13:28	0° る 57'08	
behind sun begin	8388 Jan 25 17:04	7°≈01'41					
behind sun end	8388 Jan 26 10:01	8°≈12'26		superior conj	8389 Jan 06 16:32	19° る 19'47	0°32'10
max. Earth dist.	8388 Feb 01 17:48	18° ≈ 33'17	1.43971 AU	minimum elong	8389 Jan 06 19:03	19° る 30'52	0°31'58
	8388 Feb 08 23:50	0° ∀		desc. node	8389 Jan 11 01:32	26° る 53'58	
evening rise	8388 Feb 10 02:11	1°) (41′59			8389 Jan 12 21:37	0° ≈	
	8388 Feb 29 04:57	0°Υ		max. Earth dist.	8389 Jan 14 06:26	2°≈16'51	1.42291 AU
evening max el	8388 Mar 11 04:47	13° Ƴ 44'25	21°09'02	evening rise	8389 Jan 20 01:23	11° ≈ 40'53	
asc. node	8388 Mar 18 11:48	18° Ƴ 40'29		8	8389 Feb 01 00:47	0°) €	
retrograde	8388 Mar 19 19:54	18° Ƴ 49'37		evening max el	8389 Feb 21 22:53	27°) 25'43	22°25'31
evening set	8388 Mar 24 01:01	17° Ƴ 09'59		<i>S</i>	8389 Feb 24 17:55	0°Υ	
inferior conj	8388 Mar 29 08:18	10° Ƴ 56'32	2°55'12	retrograde	8389 Mar 03 16:41	3° Y 12'10	
minimum elong	8388 Mar 29 06:20	11° Ƴ 03'22	2°54'46	asc. node	8389 Mar 05 08:56	2° Y 57'58	
min. Earth dist.	8388 Mar 29 16:53	10° Υ 26'45	0.68174 AU	evening set	8389 Mar 08 08:44	1°Υ17'26	
morning rise	8388 Apr 03 11:26	4° Υ 42'15		8	8389 Mar 09 17:25	30°R ₩	
direct	8388 Apr 08 17:39	2° Y 23'20		inferior conj	8389 Mar 13 16:55	24°) 55'13	2°26'04
morning max el	8388 Apr 19 05:51	8° Ƴ 38'58	23°26'46	minimum elong	8389 Mar 13 14:40	25°) €03'04	2°25'28
desc. node	8388 Apr 22 04:24	11° Y 49'02		min. Earth dist.	8389 Mar 13 13:11	25°) €08'13	0.68432 AU
	8388 May 05 23:39	0°8		morning rise	8389 Mar 18 20:26	18°) 45′26	
morning set	8388 May 24 06:53	28° 8 38'01		direct	8389 Mar 23 12:42	16°)(47'41	
3	8388 May 25 02:15	0°II		morning max el	8389 Apr 01 17:53	22°) 11'10	21°58'35
max. Earth dist.	8388 May 28 07:16		1.39148 AU		8389 Apr 08 11:42	0°Υ	
	.,			desc. node	8389 Apr 09 01:20	0° Υ 43'49	
superior conj	8388 Jun 04 21:05	19° Ⅱ 12'10	-1°24'22		8389 Apr 29 06:59	0°8	
minimum elong	8388 Jun 05 02:15	19° Ⅱ 36'15		morning set	8389 May 04 14:04	8° 8 22'17	
	8388 Jun 10 13:27	0ಂತಾ		max. Earth dist.	8389 May 10 06:05	17° 8 39'20	1.41366 AU
evening rise	8388 Jun 14 05:33	7° © 06'35			8389 May 17 10:58	0° Ⅱ	
asc. node	8388 Jun 14 10:45	7° © 31'46			·		
	8388 Jun 27 12:50	$0^{\circ}\Omega$		superior conj	8389 May 17 23:40	0° Ц 55'57	-1°51'18
evening max el	8388 Jun 30 09:55	3° £ 17′03	18°42'12	minimum elong	8389 May 18 05:29	1° Ⅱ 21'35	
retrograde	8388 Jul 08 12:58	7° Ω 19'00		evening rise	8389 May 28 14:21	20° Ⅱ 14'46	
evening set	8388 Jul 10 13:51	7° Ω 04'43		asc. node	8389 Jun 01 07:49	27° Ⅱ 06'48	
inferior conj	8388 Jul 18 12:37	2° Ω 41'45	0°11'21		8389 Jun 02 22:12	0ಂಣ	
minimum elong	8388 Jul 18 13:03	2° Ω 40'57	0°11'01	evening max el	8389 Jun 13 18:05	15° © 57'36	18°13'56
transit middle	8388 Jul 18 13:03	2° Ω 40'57	0°11'01	retrograde	8389 Jun 20 19:57	19° © 31'21	
transit begin	8388 Jul 18 10:23	2° Ω 45'55		evening set	8389 Jun 23 04:17	19° © 08'34	
transit end	8388 Jul 18 15:44	2° Ω 35'58		inferior conj	8389 Jun 30 07:43	14° © 24'48	1°36'54
desc. node	8388 Jul 19 03:43	2° Ω 13'34		minimum elong	8389 Jun 30 10:29	14° © 18'45	1°35'49
min. Earth dist.	8388 Jul 21 18:14	0° Ω 18′21	0.57210 AU	min. Earth dist.	8389 Jul 03 16:55	11° 5 29'33	0.59323 AU
	8388 Jul 22 04:41	30° ₹ 5		desc. node	8389 Jul 06 00:47	9° © 43'01	
morning rise	8388 Jul 26 08:45	27° © 32'54		morning rise	8389 Jul 07 13:37	8°5544'36	
direct	8388 Aug 01 00:56	26°513'31		direct	8389 Jul 13 21:46	6°\$53'52	
	8388 Aug 10 23:02	0° Ω		morning max el	8389 Jul 28 06:32	14° © 43'39	27°31'48
morning max el	8388 Aug 15 08:57	3° Ω 44'35	26°30'54		8389 Aug 09 14:08	0°Ω	
0	8388 Sep 03 08:14	0°m/	+		8389 Aug 26 16:34	0° m)	
asc. node	8388 Sep 10 10:18	13° m) 28'51		asc. node	8389 Aug 28 07:16	3°Mp19'33	
	т	4			3 40	4	

desc. node

morning max el

8391 Jun 09 18:49

8391 Jun 22 19:36

8391 Jul 09 05:15

0°**I**I50'57

0ಂತಾ

8°II50'50 27°41'34

8390 Aug 03 04:30

8390 Aug 12 19:40

8390 Aug 15 04:14

morning set

asc. node

0° Ω

18°**Ω**25'21

23°**Ω**19'54

	9201 Jul 26 11:25	0°N			8392 Jun 11 10:51	0°Щ	
	8391 Jul 26 11:25	0 δι 2°Ω15'55				0°€	
morning set	8391 Jul 27 14:56	12° Ω 31'31	1.32741 AU	marning sat	8392 Jul 01 10:14	15° © 33'54	
max. Earth dist. asc. node	8391 Aug 01 14:59 8391 Aug 02 01:13	$13^{\circ}\Omega 25'28$	1.32/41 AU	morning set max. Earth dist.	8392 Jul 09 23:56 8392 Jul 14 07:16	24°901'13	1.34011 AU
asc. node	8391 Aug 02 01.13	13 6623 28		max. Earm dist.	8392 Jul 17 05:33	24 3 01 13 0°Ω	1.34011 AU
aumariar aani	9201 Aug 04 12:21	18° Ω 41'17	0024140		8392 Jul 17 05:33	0.95	
superior conj	8391 Aug 04 12:21	18° Ω 35'01	0°24'25	gumariar agni	8392 Jul 18 13:30	2° Ω 46'07	0002140
minimum elong	8391 Aug 04 11:11	0°M)	0 24 23	superior conj	8392 Jul 18 13:42	$2^{\circ}\Omega47'10$	0°03'47
avanina riaa	8391 Aug 09 17:41			minimum elong		2°Ω18'08	0 0347
evening rise	8391 Aug 11 12:08	3° Mp 47'43		behind sun begin	8392 Jul 18 08:09	• • • • •	
	8391 Aug 25 14:41	0° ⊽	22004150	behind sun end	8392 Jul 18 19:16	3° Ω 16'15	
evening max el	8391 Sep 03 04:48	10° £ 39'24	23°04'50	asc. node	8392 Jul 18 22:11	3° Ω 31'35	
desc. node	8391 Sep 05 17:46	12° £ 54'45		evening rise	8392 Jul 25 22:24	18° Ω 20'27	
retrograde	8391 Sep 16 13:24	17° £ 20'01			8392 Jul 31 16:58	0° m/y	21020111
evening set	8391 Sep 20 10:45	16° £ 46'54	0.55240.477	evening max el	8392 Aug 14 21:22	21°Mp00'13	21°29'11
min. Earth dist.	8391 Sep 27 13:41		0.55348 AU	desc. node	8392 Aug 22 14:52	26° m 15'17	
inferior conj	8391 Sep 29 03:42	12° £ 36′27		retrograde	8392 Aug 27 03:22	27° m 04'39	
minimum elong	8391 Sep 28 23:24	12° £ 42'43	5°27'04	evening set	8392 Aug 29 16:32	26° m 49'49	
morning rise	8391 Oct 07 14:08	8° ≏ 46'27		inferior conj	8392 Sep 07 21:35	22° m 51'55	
direct	8391 Oct 10 14:30	8° ≏ 24'58		minimum elong	8392 Sep 07 12:11	23° Mp 05'06	
morning max el	8391 Oct 21 14:17	13° ≏ 33'45	20°40'08	min. Earth dist.	8392 Sep 07 22:22	22° m 50'50	0.54695 AU
asc. node	8391 Oct 29 00:51	22° ≏ 44'31		morning rise	8392 Sep 16 08:44	19°Mp00'52	
	8391 Nov 02 09:38	0°M₊		direct	8392 Sep 19 23:47	18° m 32'20	
morning set	8391 Nov 09 15:50	14°MJ0'44		morning max el	8392 Oct 02 11:38	24° Mp 27'35	22°15'22
					8392 Oct 07 12:08	0∘ ⊽	
superior conj	8391 Nov 17 02:56	29°M37'36	1°35'58	asc. node	8392 Oct 14 21:49	11° ≏ 08'07	
minimum elong	8391 Nov 17 04:35	29°M46'02	1°36'00	morning set	8392 Oct 24 02:12	28° ≏ 58'48	
	8391 Nov 17 07:20	0° ⊼			8392 Oct 24 13:49	0°M₊	
max. Earth dist.	8391 Nov 22 04:28	9° ∡ ¹43'25	1.36021 AU				
evening rise	8391 Nov 26 02:50	17° ∡ 10′33		superior conj	8392 Oct 31 04:31	14°M05'20	1°41'06
desc. node	8391 Dec 02 16:34	28° ₹ ¹49'54		minimum elong	8392 Oct 31 04:51	14° M .07'05	1°41'13
	8391 Dec 03 09:09	0°ප		max. Earth dist.	8392 Nov 03 19:06	21°M36'42	1.34288 AU
	8391 Dec 23 19:49	0° ≈			8392 Nov 07 23:46	0° ∡ 7	
evening max el	8391 Dec 31 15:49	8° ≈ 43'44	26°10'33	evening rise	8392 Nov 08 06:57	0° ∡ ³34'53	
retrograde	8392 Jan 13 08:57	15° ≈ 56′30		desc. node	8392 Nov 18 13:38	19° ∡ 07'19	
evening set	8392 Jan 19 14:08	13° ≈ 24'51			8392 Nov 25 10:13	0°ප	
min. Earth dist.	8392 Jan 23 19:05	8° ≈ 59'14	0.66796 AU	evening max el	8392 Dec 13 05:05	22° る 22'20	27°00'59
inferior conj	8392 Jan 25 09:31	7° ≈ 00'44	0°07'49	retrograde	8392 Dec 26 12:07	29° る 42'25	
minimum elong	8392 Jan 25 09:18	7° ≈ 01'23	0°07'52	evening set	8393 Jan 02 04:13	27° る 06'29	
transit middle	8392 Jan 25 09:18	7° ≈ 01'23	0°07'52	min. Earth dist.	8393 Jan 06 03:24	23° る 14'58	0.65502 AU
transit begin	8392 Jan 25 06:48	7° ≈ 09'06		inferior conj	8393 Jan 08 05:25	20° る 52'38	-0°53'31
transit end	8392 Jan 25 11:48	6°≈53'40		minimum elong	8393 Jan 08 06:58	20° ප් 48'11	0°52'42
asc. node	8392 Jan 25 00:08	7° ≈ 29'46		asc. node	8393 Jan 10 21:11	18° ප 00'07	
morning rise	8392 Jan 31 05:11	1° ≈ 13'39		morning rise	8393 Jan 14 10:57	15° る 17'17	
direct	8392 Feb 03 08:05	0° ≈ 18′20		direct	8393 Jan 17 04:35	14° る 36'47	
morning max el	8392 Feb 10 00:17	3° ≈ 55'41	18°41'19	morning max el	8393 Jan 23 15:08	18° පි 02'06	18°06'58
	8392 Feb 28 09:06	0° ∀			8393 Feb 01 13:58	0° ≈	
desc. node	8392 Feb 28 16:05	0°) €27'20		morning set	8393 Feb 11 02:02	15° ≈ 19'10	
morning set	8392 Mar 02 07:34	4°) €36'33		desc. node	8393 Feb 14 13:02	20° ≈ 56'49	
max. Earth dist.	8392 Mar 17 18:26	28°) 49′14	1.45438 AU		8393 Feb 20 03:56	0°) €	
superior conj	8392 Mar 18 14:34	0° Ƴ 08'07	-1°51'55	superior conj	8393 Feb 25 21:07	9° ∺ 04'18	-1°15'54
minimum elong	8392 Mar 18 05:41	29° ∺ 33'18	1°51'14	minimum elong	8393 Feb 25 12:35	8° ¥ 30'40	1°14'50
	8392 Mar 18 12:30	0 ° Υ		max. Earth dist.	8393 Feb 28 13:59	13° ¥ 19'15	1.45435 AU
evening rise	8392 Apr 03 01:28	24° Y 36'08			8393 Mar 11 06:53	0 ° Υ	
	8392 Apr 06 10:15	8°		evening rise	8393 Mar 14 01:10	4° Ƴ 17'00	
greatest brilliancy	8392 Apr 10 15:10	6° 8 43'26	-0.9m	greatest brilliancy	8393 Mar 26 18:31	23° Y 49'12	-0.7m
asc. node	8392 Apr 21 23:00	23° 8 20'41			8393 Mar 30 23:47	0° ႘	
evening max el	8392 Apr 24 07:13	25° 8 57'52	18°43'48	evening max el	8393 Apr 07 14:47	9° 8 35'17	19°28'58
retrograde	8392 Apr 30 22:17	29° 8 36'59		asc. node	8393 Apr 08 20:05	10° 8 45'20	
evening set	8392 May 04 04:42	28° 8 35'57		retrograde	8393 Apr 14 19:25	13° 8 40'55	
inferior conj	8392 May 09 19:43	22° 8 57'25	3°22'03	evening set	8393 Apr 18 09:54	12° 8 25'05	
minimum elong	8392 May 09 20:14	22° 8 55'49	3°21'53	inferior conj	8393 Apr 23 19:53	6° 8 31'28	3°20'59
min. Earth dist.	8392 May 11 17:02	20° 8 38'03	0.65492 AU	minimum elong	8393 Apr 23 19:11	6° 8 33'47	3°20'49
morning rise	8392 May 15 11:06	16° 8 39'41		min. Earth dist.	8393 Apr 25 02:05	4° 8 52'15	0.66889 AU
direct	8392 May 21 23:43	13° 8 52'53		morning rise	8393 Apr 29 04:08	0° 8 13'28	
desc. node	8392 May 26 15:49	15° 8 03'52		-	8393 Apr 29 10:14	30° ₹ Υ	
morning max el	8392 Jun 04 05:59	21° 8 43'55	26°54'51	direct	8393 May 05 06:59	27° Y ′30'41	
-					•		

desc. node morning max el	8393 May 11 23:03 8393 May 13 12:49 8393 May 17 15:53	0°8 1°809'40 4°855'00	25042!51	morning rise direct morning max el	8394 Apr 13 05:17 8394 Apr 18 19:27 8394 Apr 30 00:58	14° Y 01'58 11° Y 32'38 18° Y 15'41	24°18'26
morning set	8393 Jun 05 21:40 8393 Jun 22 18:49	0°П 28°П09'00	23 43 31	desc. node	8394 Apr 30 00:38 8394 Apr 30 09:47 8394 May 09 21:32	18° Ƴ 38'12 0° ႘	24 16 20
max. Earth dist.	8393 Jun 23 18:57 8393 Jun 26 12:38	0ංව 11	1.35755 AU	morning set max. Earth dist.	8394 May 29 23:32 8394 Jun 04 18:31 8394 Jun 08 10:25	0°П 9°П47'30 16°П16'12	1.37863 AU
superior conj	8393 Jul 02 06:26	16° © 23'25	-0°34'43				
minimum elong	8393 Jul 02 08:29	16° 5 33'48	0°34'29	superior conj	8394 Jun 15 11:47	29° ∏ 24'14	-1°06'39
asc. node	8393 Jul 05 19:12	23° © 34'33		minimum elong	8394 Jun 15 15:55	29° Ⅱ 44'06	1°06'09
	8393 Jul 08 22:07	0° Ω			8394 Jun 15 19:13	0°©	
evening rise	8393 Jul 10 05:14	2° Ω 39'36		asc. node	8394 Jun 22 16:13	13°930'02	
evening max el	8393 Jul 26 06:38 8393 Jul 28 02:02	0° ዀ 1° ዀ 56'05	20°08'22	evening rise	8394 Jun 24 06:06 8394 Jul 01 06:32	16° © 37′50 0° Ω	
retrograde	8393 Aug 07 16:33	7° Mp 10'14	20 08 22	evening max el	8394 Jul 10 19:38		19°07'33
desc. node	8393 Aug 09 11:58	7° m) 01'45		retrograde	8394 Jul 19 18:09	18° Ω 01'22	1, 0, 55
evening set	8393 Aug 09 14:39	7° m) 00'41		evening set	8394 Jul 21 15:53	17° Ω 50′08	
inferior conj	8393 Aug 18 16:30	3° Mp 02'05	-2°46'06	desc. node	8394 Jul 27 09:04	15° Ω 23'31	
minimum elong	8393 Aug 18 08:59	3°Mp13'15	2°43'30	inferior conj	8394 Jul 30 01:56	13° Ω 37'37	-0°49'38
min. Earth dist.	8393 Aug 20 08:43	~	0.54996 AU	minimum elong	8394 Jul 29 23:46	13° Ω 41'17	
	8393 Aug 24 03:12	30°R Ω		min. Earth dist.	8394 Aug 01 22:22	11° Ω 41'53	0.56198 AU
morning rise	8393 Aug 27 02:04	28° £ 50'04		morning rise	8394 Aug 07 04:39	8° Ω 50′22	
direct	8393 Aug 31 10:58 8393 Sep 07 12:31	28° Ω 08'39 0° m		direct morning max el	8394 Aug 12 09:26 8394 Aug 26 13:54	7° Ω 47'36 15° Ω 02'08	25042102
morning max el	8393 Sep 07 12:31 8393 Sep 14 01:03	باب 4° الل 47'41	24°01'04	morning max ci	8394 Sep 07 13:26	0° Mp	23 42 02
asc. node	8393 Oct 01 18:49	0° ჲ 06'51	21 0101	asc. node	8394 Sep 18 15:49	19° m)31'18	
	8393 Oct 01 17:22	0∘ ⊽		morning set	8394 Sep 23 01:17	28° m/35'16	
morning set	8393 Oct 08 13:54	13° ≏ 48'40		-	8394 Sep 23 17:08	0。 ʊ	
superior conj	8393 Oct 15 11:42	28° ≏ 47'28	1°39'38	superior conj	8394 Sep 29 22:10	13° ≏ 36'51	1°32'17
minimum elong	8393 Oct 15 10:51	28° ≏ 42'54	1°39'42	minimum elong	8394 Sep 29 20:27	13° ≏ 27'25	1°32'10
	8393 Oct 16 01:04	0° M		max. Earth dist.	8394 Oct 01 00:24	16° ≙ 01'26	1.32089 AU
max. Earth dist.	8393 Oct 17 18:18	3°M42'03	1.32968 AU	evening rise	8394 Oct 06 23:07	28° Ω 48'04	
evening rise	8393 Oct 22 22:47 8393 Oct 31 02:38	14° M .30′22 0° ∡ 7		daga mada	8394 Oct 07 13:01	0° M 28° M 31'54	
desc. node	8393 Oct 31 02:38 8393 Nov 05 10:42	0° x ¹ 9° x ¹04'09		desc. node	8394 Oct 23 07:48 8394 Oct 24 06:50	28°11631°34 0° x 7	
dese. Hode	8393 Nov 20 08:43	0°중		evening max el	8394 Nov 08 02:25		27°22'51
evening max el	8393 Nov 25 17:24	5° る 41'46	27°27'04	retrograde	8394 Nov 21 22:03	25° ₹ 42'42	2, 2201
retrograde	8393 Dec 09 08:41	13° る 00'40		evening set	8394 Nov 29 00:23	23° ∡ ′21'43	
evening set	8393 Dec 16 08:40	10° る 27'40		min. Earth dist.	8394 Dec 02 16:38	20° ₹ 29'25	0.61973 AU
min. Earth dist.	8393 Dec 20 03:11	7° る 08'21	0.63877 AU	inferior conj	8394 Dec 05 15:58	17° ∡ ¹46'18	
inferior conj	8393 Dec 22 16:34	4°る30'16		minimum elong	8394 Dec 05 22:00	17° ₹ 32'28	3°08'40
minimum elong	8393 Dec 22 20:20	4°る20'31	1°59'03	morning rise	8394 Dec 12 21:48	12° × 744'08	
asc. node	8393 Dec 27 18:57 8393 Dec 28 18:16	30°₹ ҂ 29° ҂ 27'05		direct asc. node	8394 Dec 15 03:53 8394 Dec 15 15:20	12° ₹ 21'58 12° ₹ 22'59	
morning rise	8393 Dec 28 18:10 8393 Dec 29 09:45	29° 🗷 27'03' 29° 🗷 09'46		morning max el	8394 Dec 13 13:20 8394 Dec 22 00:58	15° ₹ 51'21	17°50'26
direct	8393 Dec 31 20:19	28° х 40'14		morning man er	8394 Dec 31 22:08	0°ප	1, 5020
	8394 Jan 04 20:38	್0°ಕ		morning set	8395 Jan 06 19:48	10° පි 27'36	
morning max el	8394 Jan 07 08:23	2° る 03'04	17°49'45				
morning set	8394 Jan 24 00:12	27° පි 22'45		superior conj	8395 Jan 17 19:52	29° ප් 50'00	0°10'47
	8394 Jan 25 13:02	0° ≈		minimum elong	8395 Jan 17 20:53	29° る 54'17	0°10'48
desc. node	8394 Feb 01 09:59	11° ≈ 35′07		behind sun begin	8395 Jan 17 14:25	29° る 26'45	
aumariar aani	8394 Feb 05 19:53	18°≈50'22	0021144	behind sun end	8395 Jan 18 03:20 8395 Jan 17 22:13	0°≈21'46 0°≈	
superior conj minimum elong	8394 Feb 05 16:22	18°≈36'02		desc. node	8395 Jan 19 06:57	0 ≈ 2°≈18'50	
max. Earth dist.	8394 Feb 11 09:04	27°≈45'23	1.44700 AU	max. Earth dist.	8395 Jan 25 00:58	11°≈50'38	1.43319 AU
	8394 Feb 12 19:04	0° ∀		evening rise	8395 Feb 01 04:09	23° ≈ 11'59	
evening rise	8394 Feb 21 13:01	13°) 36′27		-	8395 Feb 05 13:58	0°)	
	8394 Mar 04 09:16	0° Y			8395 Feb 26 14:32	0° Y	
evening max el	8394 Mar 21 17:04	23° Y 14'26	20°29'00	evening max el	8395 Mar 04 13:51	6° Y 54'36	21°40'39
asc. node	8394 Mar 26 17:12	27° Υ 09'13		retrograde	8395 Mar 13 15:55	12° Y 17'17	
retrograde	8394 Mar 29 17:56	27° Y 55'50		asc. node	8395 Mar 13 14:19	12° Υ 17'16	
evening set	8394 Apr 02 17:28	26° Y 24'45 20° Y 17'53	3°07'38	evening set	8395 Mar 18 01:38 8395 Mar 23 09:04	10° Υ 30'55 4° Υ 13'13	2012156
inferior conj minimum elong	8394 Apr 08 01:06 8394 Apr 07 23:29	20° \bigvee 1753 20° \bigvee 23'24	3°07'38 3°07'20	inferior conj minimum elong	8395 Mar 23 09:04 8395 Mar 23 06:56		2°43'56 2°43'26
min. Earth dist.	8394 Apr 08 17:10	19° Y 22'50		min. Earth dist.	8395 Mar 23 12:13		0.68341 AU
	p. 00 17.10			Land with	22,12.10. 20 12.10	52 10	

	8395 Mar 26 13:53	30° ₹		min. Earth dist.	8396 Mar 06 08:58	18°) 44'34	0.68416 AU
morning rise	8395 Mar 28 12:04	28° ¥ 00'51		morning rise	8396 Mar 11 22:16	12° ¥ 06'29	
direct	8395 Apr 02 12:17	25°) 50'53		direct	8396 Mar 16 08:32	10°) 18'31	
	8395 Apr 10 15:29	0°Υ		morning max el	8396 Mar 25 01:40	15°) 21'22	21°23'14
morning max el	8395 Apr 12 11:10	1° Y '43'59	22°48'38	desc. node	8396 Apr 03 03:39	26°) €18'07	
desc. node	8395 Apr 17 06:44	7° Y ′06'38		***************************************	8396 Apr 05 20:22	0°Υ	
dese. node	8395 May 03 20:31	0°8		morning set	8396 Apr 25 13:18	29° Y ′29'30	
morning set	8395 May 16 17:38	20° 8 16'13		morning sec	8396 Apr 25 21:01	0°8	
max. Earth dist.	8395 May 21 07:13	27° 8 56'34	1.40115 AU	max. Earth dist.	8396 May 02 08:35	10° 8 27'15	1.42234 AU
man. Bartir diot.	8395 May 22 11:55	0°Ⅱ	10110110	mar. Bartii dibt.	05,01114, 02 00.55	10 027 10	1223
	00,0 may 22 mino	~ ~		superior conj	8396 May 09 18:43	22° 8 57'01	-2°00'13
superior conj	8395 May 29 01:26	11° Ⅲ 38'57	-1°36'35	minimum elong	8396 May 09 23:59	23° 8 19'44	
minimum elong	8395 May 29 07:07	12° Ⅱ 04'52		g	8396 May 13 19:34	0°II	2 00 01
evening rise	8395 Jun 07 21:52	0°907'12	1 300.	evening rise	8396 May 21 00:35	12° ∏ 57'48	
e vennig rise	8395 Jun 07 20:21	0°95		asc. node	8396 May 26 10:18	22° I [41'21	
asc. node	8395 Jun 09 13:15	3°9513'57		use. Houe	8396 May 30 18:10	0°95	
evening max el	8395 Jun 23 23:32	25°956'48	18°27'38	evening max el	8396 Jun 06 09:56	8°9549'33	18°07'55
retrograde	8395 Jul 01 14:34	29° © 45'13	10 27 30	retrograde	8396 Jun 13 04:53	12° © 16'25	10 07 33
evening set	8395 Jul 03 18:24	29° © 27'47		evening set	8396 Jun 15 16:19	11° 5 49'16	
inferior conj	8395 Jul 11 08:40	29 3 2747 24° 5 55'47	0°51'07	inferior conj	8396 Jun 22 12:26	6°\$57'06	2°04'35
·	8395 Jul 11 10:26		0°50'19		8396 Jun 22 15:28	6°\$50'03	2°03'33
minimum elong		24°952'15	0 30 19	minimum elong			
desc. node	8395 Jul 14 06:08	22°537'34	0.50060 ATT	min. Earth dist.	8396 Jun 25 19:34	3°555'03	0.60276 AU
min. Earth dist.	8395 Jul 14 17:22	22°516'06	0.58068 AU	morning rise	8396 Jun 29 11:50	1°506'13	
morning rise	8395 Jul 18 22:59	19°532'08		desc. node	8396 Jun 30 03:09	0°543'20	
direct	8395 Jul 24 22:27	17°959'50			8396 Jul 01 13:41	30°RⅡ	
morning max el	8395 Aug 08 07:52		27°01'14	direct	8396 Jul 06 00:36	29° Ⅱ 02'20	
	8395 Aug 12 08:59	0 \circ Ω			8396 Jul 10 16:04	0∘ ௐ	
	8395 Aug 31 20:49	0° ™		morning max el	8396 Jul 20 08:34	6°\$58'40	27°46'38
asc. node	8395 Sep 05 12:46	9° m 14'09			8396 Aug 06 17:45	0 \circ Ω	
morning set	8395 Sep 07 10:37	13° m) 13'24		morning set	8396 Aug 21 16:11	27° Ω 38′10	
				asc. node	8396 Aug 22 09:43	29° Ω 09'47	
superior conj	8395 Sep 14 09:56	28° Mp 26'55	1°19'33		8396 Aug 22 19:15	0° m)	
minimum elong	8395 Sep 14 07:45	28° m 14'48	1°19'14	max. Earth dist.	8396 Aug 27 19:45	10° m 51'48	1.31715 AU
max. Earth dist.	8395 Sep 14 10:06	28° m 27'53	1.31669 AU				
	8395 Sep 15 02:42	0∘ ⊽		superior conj	8396 Aug 28 21:14	13° Mp 12'26	1°01'51
evening rise	8395 Sep 21 05:18	13° ≏ 20'10		minimum elong	8396 Aug 28 19:02	13° m 00'17	1°01'24
evening rise	8395 Sep 21 05:18 8395 Sep 29 14:43	13° £ 20′10 0° M		minimum elong evening rise	8396 Aug 28 19:02 8396 Sep 04 15:09	13° Mp 00'17 28° Mp 00'37	1°01'24
desc. node	•				•		1°01'24
-	8395 Sep 29 14:43	0° ™			8396 Sep 04 15:09	28° Mg 00'37	1°01'24
-	8395 Sep 29 14:43 8395 Oct 10 04:54	0°ጤ 17° ጤ 18'14	26°44'52		8396 Sep 04 15:09 8396 Sep 05 13:35	28° № 00'37 0° <u>മ</u>	1°01'24
desc. node	8395 Sep 29 14:43 8395 Oct 10 04:54 8395 Oct 20 16:47	0° ጤ 17° ጤ 18'14 0° ዶ	26°44'52	evening rise	8396 Sep 04 15:09 8396 Sep 05 13:35 8396 Sep 22 06:44	28° M 00'37 0° Ω 0° M	1°01'24 25°34'51
desc. node evening max el	8395 Sep 29 14:43 8395 Oct 10 04:54 8395 Oct 20 16:47 8395 Oct 21 05:18	0°M 17°M18'14 0°⊀ 0°⊀29'59	26°44'52	evening rise desc. node	8396 Sep 04 15:09 8396 Sep 05 13:35 8396 Sep 22 06:44 8396 Sep 26 02:00	28° m 00'37 0° <u>a</u> 0° m 5° m 06'52	
desc. node evening max el retrograde	8395 Sep 29 14:43 8395 Oct 10 04:54 8395 Oct 20 16:47 8395 Oct 21 05:18 8395 Nov 04 03:14	0°M 17°M18'14 0°⊀' 0°⊀'29'59 7°⊀'38'31		desc. node evening max el	8396 Sep 04 15:09 8396 Sep 05 13:35 8396 Sep 22 06:44 8396 Sep 26 02:00 8396 Oct 02 00:22	28° m 00'37 0° <u>a</u> 0° m 5° m 06'52 11° m 40'38	
desc. node evening max el retrograde evening set	8395 Sep 29 14:43 8395 Oct 10 04:54 8395 Oct 20 16:47 8395 Oct 21 05:18 8395 Nov 04 03:14 8395 Nov 10 23:06	0°M 17°M18'14 0° ₹ 0° ₹29'59 7° ₹38'31 5° ₹40'28	0.59894 AU	desc. node evening max el retrograde	8396 Sep 04 15:09 8396 Sep 05 13:35 8396 Sep 22 06:44 8396 Sep 26 02:00 8396 Oct 02 00:22 8396 Oct 15 22:32	28° m 00'37 0° <u>a</u> 0° m 5° m 06'52 11° m 40'38 18° m 43'01	
desc. node evening max el retrograde evening set min. Earth dist.	8395 Sep 29 14:43 8395 Oct 10 04:54 8395 Oct 20 16:47 8395 Oct 21 05:18 8395 Nov 04 03:14 8395 Nov 10 23:06 8395 Nov 14 19:18	0° M. 17° M.18'14 0° 🗷 0° № 29'59 7° № 38'31 5° № 40'28 3° № 04'05	0.59894 AU -4°18'27	desc. node evening max el retrograde evening set	8396 Sep 04 15:09 8396 Sep 05 13:35 8396 Sep 22 06:44 8396 Sep 26 02:00 8396 Oct 02 00:22 8396 Oct 15 22:32 8396 Oct 21 23:55	28° m 00'37 0° <u>a</u> 0° m 5° m 06'52 11° m 40'38 18° m 43'01 17° m 17'46	25°34'51 0.57843 AU
desc. node evening max el retrograde evening set min. Earth dist. inferior conj	8395 Sep 29 14:43 8395 Oct 10 04:54 8395 Oct 20 16:47 8395 Oct 21 05:18 8395 Nov 04 03:14 8395 Nov 10 23:06 8395 Nov 14 19:18 8395 Nov 18 00:03	0°M 17°M18'14 0° ₹ 0° ₹29'59 7° ₹38'31 5° ₹40'28 3° ₹04'05 0° ₹30'29	0.59894 AU -4°18'27	desc. node evening max el retrograde evening set min. Earth dist.	8396 Sep 04 15:09 8396 Sep 05 13:35 8396 Sep 22 06:44 8396 Sep 26 02:00 8396 Oct 02 00:22 8396 Oct 15 22:32 8396 Oct 21 23:55 8396 Oct 26 12:40	28° m00'37 0° <u>a</u> 0° m 5° m06'52 11° m40'38 18° m43'01 17° m17'46 14° m40'26	25°34'51 0.57843 AU -5°12'18
desc. node evening max el retrograde evening set min. Earth dist. inferior conj	8395 Sep 29 14:43 8395 Oct 10 04:54 8395 Oct 20 16:47 8395 Oct 21 05:18 8395 Nov 04 03:14 8395 Nov 10 23:06 8395 Nov 14 19:18 8395 Nov 18 00:03 8395 Nov 18 07:23	0° M. 17° M.18'14 0° ₹ 0° ₹29'59 7° ₹38'31 5° ₹40'28 3° ₹04'05 0° ₹30'29 0° ₹15'46	0.59894 AU -4°18'27	desc. node evening max el retrograde evening set min. Earth dist. inferior conj	8396 Sep 04 15:09 8396 Sep 05 13:35 8396 Sep 22 06:44 8396 Sep 26 02:00 8396 Oct 02 00:22 8396 Oct 15 22:32 8396 Oct 21 23:55 8396 Oct 26 12:40 8396 Oct 29 13:29	28° m00'37 0° <u>n</u> 0° m 5° m06'52 11° m40'38 18° m43'01 17° m17'46 14° m40'26 12° m33'44	25°34'51 0.57843 AU -5°12'18
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	8395 Sep 29 14:43 8395 Oct 10 04:54 8395 Oct 20 16:47 8395 Oct 21 05:18 8395 Nov 04 03:14 8395 Nov 10 23:06 8395 Nov 14 19:18 8395 Nov 18 00:03 8395 Nov 18 07:23 8395 Nov 18 15:17	0°M 17°M18'14 0° ₹ 0° ₹29'59 7° ₹38'31 5° ₹40'28 3° ₹04'05 0° ₹30'29 0° ₹15'46 30°RM	0.59894 AU -4°18'27	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	8396 Sep 04 15:09 8396 Sep 05 13:35 8396 Sep 22 06:44 8396 Sep 26 02:00 8396 Oct 02 00:22 8396 Oct 15 22:32 8396 Oct 21 23:55 8396 Oct 26 12:40 8396 Oct 29 13:29 8396 Oct 29 19:21	28° m00'37 0° <u>n</u> 0° m 5° m06'52 11° m40'38 18° m43'01 17° m17'46 14° m40'26 12° m33'44 12° m23'29	25°34'51 0.57843 AU -5°12'18
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	8395 Sep 29 14:43 8395 Oct 10 04:54 8395 Oct 20 16:47 8395 Oct 21 05:18 8395 Nov 04 03:14 8395 Nov 10 23:06 8395 Nov 14 19:18 8395 Nov 18 00:03 8395 Nov 18 07:23 8395 Nov 18 15:17 8395 Nov 25 18:05	0°M. 17°M.18'14 0°\$\mathbb{Z}\$ 0°\$\mathbb{Z}\$29'59 7°\$\mathbb{Z}\$38'31 5°\$\mathbb{Z}\$40'28 3°\$\mathbb{Z}\$04'05 0°\$\mathbb{Z}\$30'29 0°\$\mathbb{Z}\$15'46 30°RM. 25°M.49'46	0.59894 AU -4°18'27	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	8396 Sep 04 15:09 8396 Sep 05 13:35 8396 Sep 22 06:44 8396 Sep 26 02:00 8396 Oct 02 00:22 8396 Oct 15 22:32 8396 Oct 21 23:55 8396 Oct 26 12:40 8396 Oct 29 13:29 8396 Oct 29 19:21 8396 Nov 06 17:07	28° m00'37 0° <u>n</u> 0° m 5° m06'52 11° m40'38 18° m43'01 17° m17'46 14° m40'26 12° m33'44 12° m23'29 8° m15'40	25°34'51 0.57843 AU -5°12'18
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	8395 Sep 29 14:43 8395 Oct 10 04:54 8395 Oct 20 16:47 8395 Oct 21 05:18 8395 Nov 04 03:14 8395 Nov 10 23:06 8395 Nov 14 19:18 8395 Nov 18 00:03 8395 Nov 18 07:23 8395 Nov 18 15:17 8395 Nov 25 18:05 8395 Nov 27 23:04	0°M. 17°M.18'14 0°\$\docs\docs\docs\docs\docs\docs\docs\docs	0.59894 AU -4°18'27 4°16'18	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	8396 Sep 04 15:09 8396 Sep 05 13:35 8396 Sep 22 06:44 8396 Sep 26 02:00 8396 Oct 02 00:22 8396 Oct 15 22:32 8396 Oct 21 23:55 8396 Oct 26 12:40 8396 Oct 29 13:29 8396 Oct 29 19:21 8396 Nov 06 17:07 8396 Nov 09 01:37	28° m00'37 0° n 0° m 5° m06'52 11° m40'38 18° m43'01 17° m17'46 14° m40'26 12° m33'44 12° m23'29 8° m15'40 7° m58'34	25°34'51 0.57843 AU -5°12'18 5°11'17
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	8395 Sep 29 14:43 8395 Oct 10 04:54 8395 Oct 20 16:47 8395 Oct 21 05:18 8395 Nov 04 03:14 8395 Nov 10 23:06 8395 Nov 14 19:18 8395 Nov 18 00:03 8395 Nov 18 07:23 8395 Nov 18 15:17 8395 Nov 25 18:05 8395 Nov 27 23:04 8395 Dec 02 12:22	0°M. 17°M18'14 0° ₹ 0°₹29'59 7°₹38'31 5°₹40'28 3°₹04'05 0°₹30'29 0°₹15'46 30°RM. 25°M49'46 25°M49'46	0.59894 AU -4°18'27 4°16'18	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	8396 Sep 04 15:09 8396 Sep 05 13:35 8396 Sep 22 06:44 8396 Sep 26 02:00 8396 Oct 02 00:22 8396 Oct 15 22:32 8396 Oct 21 23:55 8396 Oct 26 12:40 8396 Oct 29 13:29 8396 Oct 29 19:21 8396 Nov 06 17:07 8396 Nov 09 01:37 8396 Nov 17 17:53	28° m00'37 0° n 0° m 5° m06'52 11° m40'38 18° m43'01 17° m17'46 14° m40'26 12° m33'44 12° m23'29 8° m15'40 7° m58'34 12° m08'47	25°34'51 0.57843 AU -5°12'18 5°11'17
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	8395 Sep 29 14:43 8395 Oct 10 04:54 8395 Oct 20 16:47 8395 Oct 21 05:18 8395 Nov 04 03:14 8395 Nov 10 23:06 8395 Nov 14 19:18 8395 Nov 18 00:03 8395 Nov 18 07:23 8395 Nov 18 15:17 8395 Nov 25 18:05 8395 Nov 27 23:04 8395 Dec 02 12:22 8395 Dec 05 13:23	0° M. 17° M.18'14 0° ₹ 0° ₹29'59 7° ₹38'31 5° ₹40'28 3° ₹04'05 0° ₹30'29 0° ₹15'46 30° R.M. 25° M.49'46 25° M.31'42 26° M.52'49 29° M.16'41	0.59894 AU -4°18'27 4°16'18	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	8396 Sep 04 15:09 8396 Sep 05 13:35 8396 Sep 22 06:44 8396 Sep 26 02:00 8396 Oct 02 00:22 8396 Oct 15 22:32 8396 Oct 21 23:55 8396 Oct 26 12:40 8396 Oct 29 13:29 8396 Oct 29 19:21 8396 Nov 06 17:07 8396 Nov 09 01:37 8396 Nov 17 17:53 8396 Nov 18 09:20	28° m00'37 0° n 0° m 5° m06'52 11° m40'38 18° m43'01 17° m17'46 14° m40'26 12° m33'44 12° m23'29 8° m15'40 7° m58'34 12° m08'47 12° m47'11	25°34'51 0.57843 AU -5°12'18 5°11'17
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	8395 Sep 29 14:43 8395 Oct 10 04:54 8395 Oct 20 16:47 8395 Oct 21 05:18 8395 Nov 04 03:14 8395 Nov 10 23:06 8395 Nov 14 19:18 8395 Nov 18 00:03 8395 Nov 18 07:23 8395 Nov 18 15:17 8395 Nov 25 18:05 8395 Nov 27 23:04 8395 Dec 02 12:22 8395 Dec 05 13:23 8395 Dec 06 06:26	0°M. 17°M18'14 0°\$\displays129'59 7°\$\displays131 5°\$\displays140'28 3°\$\displays104'05 0°\$\displays13'46 30°RM. 25°M49'46 25°M31'42 26°M52'49 29°M16'41 0°\$\displays13'41	0.59894 AU -4°18'27 4°16'18	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	8396 Sep 04 15:09 8396 Sep 05 13:35 8396 Sep 22 06:44 8396 Sep 26 02:00 8396 Oct 02 00:22 8396 Oct 15 22:32 8396 Oct 21 23:55 8396 Oct 26 12:40 8396 Oct 29 13:29 8396 Oct 29 19:21 8396 Nov 06 17:07 8396 Nov 09 01:37 8396 Nov 17 17:53 8396 Nov 18 09:20 8396 Nov 29 18:02	28° m00'37 0° n 0° m 5° m06'52 11° m40'38 18° m43'01 17° m17'46 14° m40'26 12° m33'44 12° m23'29 8° m15'40 7° m58'34 12° m08'47 12° m47'11 0° 🔀	25°34'51 0.57843 AU -5°12'18 5°11'17
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	8395 Sep 29 14:43 8395 Oct 10 04:54 8395 Oct 20 16:47 8395 Oct 21 05:18 8395 Nov 04 03:14 8395 Nov 10 23:06 8395 Nov 14 19:18 8395 Nov 18 00:03 8395 Nov 18 07:23 8395 Nov 18 15:17 8395 Nov 25 18:05 8395 Nov 27 23:04 8395 Dec 02 12:22 8395 Dec 05 13:23 8395 Dec 06 06:26 8395 Dec 21 06:38	0°M. 17°M.18'14 0°\$\displaystyle{\sigma} 0°\displaystyle{\sigma} 29'59 7°\displaystyle{\displaystyle{\sigma} 30'40'28 3°\displaystyle{\displaystyle{\sigma} 30'29 0°\displaystyle{\dinttyle{\displaystyle{\displayst	0.59894 AU -4°18'27 4°16'18	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	8396 Sep 04 15:09 8396 Sep 05 13:35 8396 Sep 22 06:44 8396 Sep 26 02:00 8396 Oct 02 00:22 8396 Oct 15 22:32 8396 Oct 21 23:55 8396 Oct 26 12:40 8396 Oct 29 13:29 8396 Oct 29 19:21 8396 Nov 06 17:07 8396 Nov 09 01:37 8396 Nov 17 17:53 8396 Nov 18 09:20 8396 Nov 29 18:02	28° m00'37 0° n 0° m 5° m06'52 11° m40'38 18° m43'01 17° m17'46 14° m40'26 12° m33'44 12° m23'29 8° m15'40 7° m58'34 12° m08'47 12° m47'11 0° 🔀	25°34'51 0.57843 AU -5°12'18 5°11'17
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	8395 Sep 29 14:43 8395 Oct 10 04:54 8395 Oct 20 16:47 8395 Oct 21 05:18 8395 Nov 04 03:14 8395 Nov 10 23:06 8395 Nov 14 19:18 8395 Nov 18 00:03 8395 Nov 18 07:23 8395 Nov 18 15:17 8395 Nov 25 18:05 8395 Nov 27 23:04 8395 Dec 02 12:22 8395 Dec 05 13:23 8395 Dec 06 06:26 8395 Dec 21 06:38	0°M. 17°M.18'14 0°\$\displaystyle{\sigma} 0°\displaystyle{\sigma} 29'59 7°\displaystyle{\displaystyle{\sigma} 30'40'28 3°\displaystyle{\displaystyle{\sigma} 30'29 0°\displaystyle{\dinttyle{\displaystyle{\displayst	0.59894 AU -4°18'27 4°16'18	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	8396 Sep 04 15:09 8396 Sep 05 13:35 8396 Sep 22 06:44 8396 Sep 26 02:00 8396 Oct 02 00:22 8396 Oct 15 22:32 8396 Oct 21 23:55 8396 Oct 26 12:40 8396 Oct 29 13:29 8396 Oct 29 19:21 8396 Nov 06 17:07 8396 Nov 09 01:37 8396 Nov 17 17:53 8396 Nov 18 09:20 8396 Nov 29 18:02 8396 Dec 04 03:59	28° m00'37 0° n 5° m06'52 11° m40'38 18° m43'01 17° m17'46 14° m40'26 12° m33'44 12° m23'29 8° m15'40 7° m58'34 12° m08'47 12° m47'11 0° x' 8° x' 29'46	25°34'51 0.57843 AU -5°12'18 5°11'17 18°50'54
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	8395 Sep 29 14:43 8395 Oct 10 04:54 8395 Oct 20 16:47 8395 Oct 21 05:18 8395 Nov 04 03:14 8395 Nov 10 23:06 8395 Nov 14 19:18 8395 Nov 18 00:03 8395 Nov 18 07:23 8395 Nov 18 15:17 8395 Nov 25 18:05 8395 Nov 27 23:04 8395 Dec 02 12:22 8395 Dec 05 13:23 8395 Dec 06 06:26 8395 Dec 21 06:38 8395 Dec 24 08:07	0°M. 17°M18'14 0° ₹ 0°₹29'59 7°₹38'31 5°₹40'28 3°₹04'05 0°₹30'29 0°₹15'46 30°RM. 25°M49'46 25°M31'42 26°M52'49 29°M16'41 0°₹ 24°₹14'28	0.59894 AU -4°18'27 4°16'18 18°10'16	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	8396 Sep 04 15:09 8396 Sep 05 13:35 8396 Sep 22 06:44 8396 Sep 26 02:00 8396 Oct 02 00:22 8396 Oct 15 22:32 8396 Oct 21 23:55 8396 Oct 26 12:40 8396 Oct 29 13:29 8396 Oct 29 19:21 8396 Nov 06 17:07 8396 Nov 09 01:37 8396 Nov 17 17:53 8396 Nov 18 09:20 8396 Nov 29 18:02 8396 Dec 04 03:59	28° m00'37 0° m 5° m06'52 11° m40'38 18° m43'01 17° m17'46 14° m40'26 12° m33'44 12° m23'29 8° m15'40 7° m58'34 12° m08'47 12° m47'11 0° x7 8° x729'46 25° x703'19	25°34'51 0.57843 AU -5°12'18 5°11'17 18°50'54
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	8395 Sep 29 14:43 8395 Oct 10 04:54 8395 Oct 20 16:47 8395 Oct 21 05:18 8395 Nov 04 03:14 8395 Nov 10 23:06 8395 Nov 14 19:18 8395 Nov 18 00:03 8395 Nov 18 07:23 8395 Nov 18 15:17 8395 Nov 25 18:05 8395 Nov 27 23:04 8395 Dec 02 12:22 8395 Dec 06 06:26 8395 Dec 21 06:38 8395 Dec 24 08:07	0°M. 17°M18'14 0° ₹ 0°₹29'59 7°₹38'31 5°₹40'28 3°₹04'05 0°₹30'29 0°₹15'46 30°RM. 25°M49'46 25°M31'42 26°M52'49 29°M16'41 0°₹ 24°₹14'28 0°♂ 11°♂558'54 12°♂512'59	0.59894 AU -4°18'27 4°16'18 18°10'16	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	8396 Sep 04 15:09 8396 Sep 05 13:35 8396 Sep 22 06:44 8396 Sep 26 02:00 8396 Oct 02 00:22 8396 Oct 15 22:32 8396 Oct 21 23:55 8396 Oct 26 12:40 8396 Oct 29 13:29 8396 Oct 29 19:21 8396 Nov 06 17:07 8396 Nov 09 01:37 8396 Nov 17 17:53 8396 Nov 18 09:20 8396 Nov 29 18:02 8396 Dec 04 03:59	28° m00'37 0° n 0° m 5° m06'52 11° m40'38 18° m43'01 17° m17'46 14° m40'26 12° m33'44 12° m23'29 8° m15'40 7° m58'34 12° m08'47 12° m47'11 0° x 8° x 29'46 25° x 03'19 25° x 18'56	25°34'51 0.57843 AU -5°12'18 5°11'17 18°50'54
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	8395 Sep 29 14:43 8395 Oct 10 04:54 8395 Oct 20 16:47 8395 Oct 21 05:18 8395 Nov 04 03:14 8395 Nov 10 23:06 8395 Nov 14 19:18 8395 Nov 18 00:03 8395 Nov 18 07:23 8395 Nov 18 15:17 8395 Nov 25 18:05 8395 Nov 27 23:04 8395 Dec 02 12:22 8395 Dec 05 13:23 8395 Dec 06:26 8395 Dec 21 06:38 8395 Dec 24 08:07	0° M. 17° M.18'14 0° ₹ 0° ₹29'59 7° ₹38'31 5° ₹40'28 3° ₹04'05 0° ₹30'29 0° ₹15'46 30° RM. 25° M.49'46 25° M.31'42 26° M.52'49 29° M.16'41 0° ₹ 24° ₹14'28 0° ₹	0.59894 AU -4°18'27 4°16'18 18°10'16	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	8396 Sep 04 15:09 8396 Sep 05 13:35 8396 Sep 22 06:44 8396 Sep 26 02:00 8396 Oct 02 00:22 8396 Oct 15 22:32 8396 Oct 21 23:55 8396 Oct 26 12:40 8396 Oct 29 13:29 8396 Oct 29 19:21 8396 Nov 06 17:07 8396 Nov 09 01:37 8396 Nov 17 17:53 8396 Nov 18 09:20 8396 Dec 04 03:59 8396 Dec 12 16:11 8396 Dec 12 19:29 8396 Dec 15 07:25	28° m00'37 0° n 0° m 5° m06'52 11° m40'38 18° m43'01 17° m17'46 14° m40'26 12° m33'44 12° m23'29 8° m15'40 7° m58'34 12° m08'47 12° m47'11 0° х 8° х 29'46 25° х 18'56 0° る	25°34'51 0.57843 AU -5°12'18 5°11'17 18°50'54 1°12'18 1°12'04
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	8395 Sep 29 14:43 8395 Oct 10 04:54 8395 Oct 20 16:47 8395 Oct 21 05:18 8395 Nov 04 03:14 8395 Nov 10 23:06 8395 Nov 14 19:18 8395 Nov 18 00:03 8395 Nov 18 07:23 8395 Nov 18 15:17 8395 Nov 25 18:05 8395 Nov 27 23:04 8395 Dec 02 12:22 8395 Dec 05 13:23 8395 Dec 06 06:26 8395 Dec 21 06:38 8395 Dec 24 08:07 8395 Dec 30 20:12 8395 Dec 30 23:20 8396 Jan 06 03:55	0° M. 17° M.18'14 0° \$\tilde{x}\$ 0° \$\tilde{x}\$29'59 7° \$\tilde{x}\$38'31 5° \$\tilde{x}\$40'28 3° \$\tilde{x}\$04'05 0° \$\tilde{x}\$30'29 0° \$\tilde{x}\$15'46 30° RM. 25° M.49'46 25° M.31'42 26° M.52'49 29° M.16'41 0° \$\tilde{x}\$ 24° \$\tilde{x}\$14'28 0° \$\tilde{x}\$ 11° \$\tilde{5}\$58'54 12° \$\tilde{5}\$12'59 23° \$\tilde{5}\$03'55	0.59894 AU -4°18'27 4°16'18 18°10'16 0°46'03 0°45'46	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong	8396 Sep 04 15:09 8396 Sep 05 13:35 8396 Sep 22 06:44 8396 Sep 26 02:00 8396 Oct 02 00:22 8396 Oct 15 22:32 8396 Oct 21 23:55 8396 Oct 26 12:40 8396 Oct 29 13:29 8396 Oct 29 19:21 8396 Nov 06 17:07 8396 Nov 09 01:37 8396 Nov 17 17:53 8396 Nov 18 09:20 8396 Nov 29 18:02 8396 Dec 04 03:59 8396 Dec 12 16:11 8396 Dec 12 19:29 8396 Dec 15 07:25 8396 Dec 19 17:54	28° m00'37 0° n 0° m 5° m06'52 11° m40'38 18° m43'01 17° m17'46 14° m40'26 12° m33'44 12° m23'29 8° m15'40 7° m58'34 12° m08'47 12° m47'11 0° x 8° x 29'46 25° x 03'19 25° x 18'56 0° 8 8° 502'39	25°34'51 0.57843 AU -5°12'18 5°11'17 18°50'54 1°12'18 1°12'04
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist.	8395 Sep 29 14:43 8395 Oct 10 04:54 8395 Oct 20 16:47 8395 Oct 21 05:18 8395 Nov 04 03:14 8395 Nov 10 23:06 8395 Nov 14 19:18 8395 Nov 18 00:03 8395 Nov 18 07:23 8395 Nov 18 15:17 8395 Nov 25 18:05 8395 Nov 27 23:04 8395 Dec 02 12:22 8395 Dec 05 13:23 8395 Dec 06 06:26 8395 Dec 21 06:38 8395 Dec 24 08:07 8395 Dec 30 20:12 8395 Dec 30 23:20 8396 Jan 06 03:55 8396 Jan 07 11:37 8396 Jan 10 07:11	0°M. 17°M18'14 0° √ 0°√29'59 7°√38'31 5°√40'28 3°√04'05 0°√30'29 0°√15'46 30°RM. 25°M49'46 25°M49'46 25°M52'49 29°M16'41 0° √ 24°√14'28 0° √ 11°√558'54 12°√512'59 23°√503'55 25°√518'21 0° ≈	0.59894 AU -4°18'27 4°16'18 18°10'16 0°46'03 0°45'46	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong	8396 Sep 04 15:09 8396 Sep 05 13:35 8396 Sep 22 06:44 8396 Sep 26 02:00 8396 Oct 02 00:22 8396 Oct 15 22:32 8396 Oct 21 23:55 8396 Oct 26 12:40 8396 Oct 29 13:29 8396 Oct 29 19:21 8396 Nov 06 17:07 8396 Nov 09 01:37 8396 Nov 17 17:53 8396 Nov 18 09:20 8396 Nov 29 18:02 8396 Dec 04 03:59 8396 Dec 12 16:11 8396 Dec 12 19:29 8396 Dec 15 07:25 8396 Dec 23 00:55 8396 Dec 23 16:15	28° m00'37 0° n 0° m 5° m06'52 11° m40'38 18° m43'01 17° m17'46 14° m40'26 12° m33'44 12° m23'29 8° m15'40 7° m58'34 12° m08'47 12° m47'11 0° x' 8° x'29'46 25° x'03'19 25° x'18'56 0° \(\begin{align*} 8° \(\beta\)20'39 13° \(\beta\)46'51 14° \(\beta\)52'15	25°34'51 0.57843 AU -5°12'18 5°11'17 18°50'54 1°12'18 1°12'04
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	8395 Sep 29 14:43 8395 Oct 10 04:54 8395 Oct 20 16:47 8395 Oct 21 05:18 8395 Nov 04 03:14 8395 Nov 10 23:06 8395 Nov 14 19:18 8395 Nov 18 00:03 8395 Nov 18 07:23 8395 Nov 18 15:17 8395 Nov 25 18:05 8395 Nov 27 23:04 8395 Dec 02 12:22 8395 Dec 05 13:23 8395 Dec 06 06:26 8395 Dec 21 06:38 8395 Dec 24 08:07 8395 Dec 30 20:12 8395 Dec 30 23:20 8396 Jan 06 03:55 8396 Jan 07 11:37 8396 Jan 10 07:11 8396 Jan 12 11:20	0°M. 17°M18'14 0° √ 0°√29'59 7°√38'31 5°√40'28 3°√04'05 0°√30'29 0°√15'46 30°RM. 25°M49'46 25°M49'46 25°M52'49 29°M16'41 0° √ 24°√14'28 0° √ 11°√558'54 12°√512'59 23°√503'55 25°√518'21 0° ≈ 3°≈33'00	0.59894 AU -4°18'27 4°16'18 18°10'16 0°46'03 0°45'46	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong	8396 Sep 04 15:09 8396 Sep 05 13:35 8396 Sep 22 06:44 8396 Sep 26 02:00 8396 Oct 02 00:22 8396 Oct 15 22:32 8396 Oct 21 23:55 8396 Oct 26 12:40 8396 Oct 29 13:29 8396 Oct 29 19:21 8396 Nov 06 17:07 8396 Nov 09 01:37 8396 Nov 17 17:53 8396 Nov 18 09:20 8396 Nov 29 18:02 8396 Nov 29 18:02 8396 Dec 04 03:59 8396 Dec 12 16:11 8396 Dec 12 19:29 8396 Dec 15 07:25 8396 Dec 23 00:55 8396 Dec 23 16:15 8397 Jan 01 23:41	28° m00'37 0° n 0° m 5° m06'52 11° m40'38 18° m43'01 17° m17'46 14° m40'26 12° m33'44 12° m23'29 8° m15'40 7° m58'34 12° m08'47 12° m47'11 0° √ 8° √29'46 25° √303'19 25° √318'56 0° ♂ 8° ♂02'39 13° ♂46'51 14° ♂52'15 0° ≈	25°34'51 0.57843 AU -5°12'18 5°11'17 18°50'54 1°12'18 1°12'04
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist.	8395 Sep 29 14:43 8395 Oct 10 04:54 8395 Oct 20 16:47 8395 Oct 21 05:18 8395 Nov 04 03:14 8395 Nov 10 23:06 8395 Nov 14 19:18 8395 Nov 18 00:03 8395 Nov 18 07:23 8395 Nov 18 15:17 8395 Nov 25 18:05 8395 Nov 27 23:04 8395 Dec 02 12:22 8395 Dec 05 13:23 8395 Dec 06 06:26 8395 Dec 21 06:38 8395 Dec 24 08:07 8395 Dec 30 20:12 8395 Dec 30 23:20 8396 Jan 06 03:55 8396 Jan 07 11:37 8396 Jan 10 07:11 8396 Jan 12 11:20 8396 Jan 29 21:44	0°M. 17°M18'14 0° √ 0°√29'59 7°√38'31 5°√40'28 3°√04'05 0°√30'29 0°√15'46 30°RM. 25°M49'46 25°M31'42 26°M52'49 29°M16'41 0°√2 24°√14'28 0°♂ 11°♂58'54 12°♂12'59 23°♂03'55 25°♂18'21 0°≈ 3°≈33'00 0° ★	0.59894 AU -4°18'27 4°16'18 18°10'16 0°46'03 0°45'46 1.41449 AU	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong	8396 Sep 04 15:09 8396 Sep 05 13:35 8396 Sep 22 06:44 8396 Sep 26 02:00 8396 Oct 02 00:22 8396 Oct 15 22:32 8396 Oct 21 23:55 8396 Oct 26 12:40 8396 Oct 29 13:29 8396 Oct 29 19:21 8396 Nov 06 17:07 8396 Nov 09 01:37 8396 Nov 17 17:53 8396 Nov 18 09:20 8396 Nov 29 18:02 8396 Dec 04 03:59 8396 Dec 12 16:11 8396 Dec 12 19:29 8396 Dec 12 19:29 8396 Dec 15 07:25 8396 Dec 23 00:55 8396 Dec 23 16:15 8397 Jan 01 23:41 8397 Jan 01 23:41	28° m00'37 0° n 0° m 5° m06'52 11° m40'38 18° m43'01 17° m17'46 14° m40'26 12° m33'44 12° m23'29 8° m15'40 7° m58'34 12° m08'47 12° m47'11 0° √ 8° √29'46 25° √303'19 25° √318'56 0° √3 8° √302'39 13° √346'51 14° √552'15 0° ≈ 0° ↔	25°34'51 0.57843 AU -5°12'18 5°11'17 18°50'54 1°12'18 1°12'04 1.39318 AU
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el	8395 Sep 29 14:43 8395 Oct 10 04:54 8395 Oct 20 16:47 8395 Oct 21 05:18 8395 Nov 04 03:14 8395 Nov 10 23:06 8395 Nov 14 19:18 8395 Nov 18 00:03 8395 Nov 18 07:23 8395 Nov 18 15:17 8395 Nov 25 18:05 8395 Nov 27 23:04 8395 Dec 02 12:22 8395 Dec 05 13:23 8395 Dec 06 06:26 8395 Dec 21 06:38 8395 Dec 21 06:38 8395 Dec 24 08:07 8395 Dec 30 20:12 8395 Dec 30 23:20 8396 Jan 06 03:55 8396 Jan 07 11:37 8396 Jan 10 07:11 8396 Jan 12 11:20 8396 Jan 29 21:44 8396 Feb 15 06:08	0°M. 17°M.18'14 0° ₹ 0° ₹29'59 7° ₹38'31 5° ₹40'28 3° ₹04'05 0° ₹30'29 0° ₹15'46 30° RM. 25° M.49'46 25° M.31'42 26° M.52'49 29° M.16'41 0° ₹ 24° ₹14'28 0° ₹ 11° ₹58'54 12° ₹12'59 23° ₹03'55 25° ₹18'21 0° ≈ 3° ≈33'00 0° € 20° ₹36'34	0.59894 AU -4°18'27 4°16'18 18°10'16 0°46'03 0°45'46 1.41449 AU	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. desc. node evening rise	8396 Sep 04 15:09 8396 Sep 05 13:35 8396 Sep 22 06:44 8396 Sep 26 02:00 8396 Oct 02 00:22 8396 Oct 15 22:32 8396 Oct 21 23:55 8396 Oct 26 12:40 8396 Oct 29 13:29 8396 Oct 29 19:21 8396 Nov 06 17:07 8396 Nov 09 01:37 8396 Nov 17 17:53 8396 Nov 18 09:20 8396 Nov 29 18:02 8396 Dec 04 03:59 8396 Dec 12 16:11 8396 Dec 12 19:29 8396 Dec 12 19:29 8396 Dec 15 07:25 8396 Dec 23 16:15 8397 Jan 01 23:41 8397 Jan 23 18:21 8397 Jan 27 19:58	28° m00'37 0° n 0° m 5° m06'52 11° m40'38 18° m43'01 17° m17'46 14° m40'26 12° m33'44 12° m23'29 8° m15'40 7° m58'34 12° m08'47 12° m47'11 0° x 8° x 29'46 25° x 03'19 25° x 18'56 0° 3 8° 302'39 13° 346'51 14° 352'15 0° ≈ 0° H 4° H22'14	25°34'51 0.57843 AU -5°12'18 5°11'17 18°50'54 1°12'18 1°12'04 1.39318 AU
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde	8395 Sep 29 14:43 8395 Oct 10 04:54 8395 Oct 20 16:47 8395 Oct 21 05:18 8395 Nov 04 03:14 8395 Nov 10 23:06 8395 Nov 14 19:18 8395 Nov 18 00:03 8395 Nov 18 07:23 8395 Nov 18 15:17 8395 Nov 25 18:05 8395 Nov 27 23:04 8395 Dec 02 12:22 8395 Dec 05 13:23 8395 Dec 06 06:26 8395 Dec 21 06:38 8395 Dec 24 08:07 8395 Dec 30 20:12 8395 Dec 30 20:12 8395 Dec 30 23:20 8396 Jan 06 03:55 8396 Jan 07 11:37 8396 Jan 10 07:11 8396 Jan 12 11:20 8396 Jan 29 21:44 8396 Feb 15 06:08 8396 Feb 25 11:41	0°M. 17°M18'14 0° √ 0°√29'59 7°√38'31 5°√40'28 3°√04'05 0°√30'29 0°√15'46 30°RM. 25°M49'46 25°M31'42 26°M52'49 29°M16'41 0°√ 24°√14'28 0° 3° 11° √558'54 12° √512'59 23° √503'55 25° √518'21 0° ∞ 3° ≈33'00 0° € 20° €36'34 26° €40'24	0.59894 AU -4°18'27 4°16'18 18°10'16 0°46'03 0°45'46 1.41449 AU	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. desc. node evening rise	8396 Sep 04 15:09 8396 Sep 05 13:35 8396 Sep 22 06:44 8396 Sep 26 02:00 8396 Oct 02 00:22 8396 Oct 15 22:32 8396 Oct 21 23:55 8396 Oct 26 12:40 8396 Oct 29 13:29 8396 Oct 29 19:21 8396 Nov 06 17:07 8396 Nov 09 01:37 8396 Nov 17 17:53 8396 Nov 18 09:20 8396 Nov 29 18:02 8396 Dec 04 03:59 8396 Dec 12 16:11 8396 Dec 12 19:29 8396 Dec 12 19:29 8396 Dec 12 19:25 8396 Dec 12 17:54 8396 Dec 23 00:55 8396 Dec 23 16:15 8397 Jan 01 23:41 8397 Jan 27 19:58 8397 Feb 08 03:55	28° m00'37 0° n 0° m 5° m06'52 11° m40'38 18° m43'01 17° m17'46 14° m40'26 12° m33'44 12° m23'29 8° m15'40 7° m58'34 12° m08'47 12° m47'11 0° √ 8° √29'46 25° √13'19 25° √18'56 0° ♂ 8° ♂02'39 13° ♂46'51 14° ♂52'15 0° ≈ 0° 升 4° 升22'14 11° 升00'42	25°34'51 0.57843 AU -5°12'18 5°11'17 18°50'54 1°12'18 1°12'04 1.39318 AU
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node	8395 Sep 29 14:43 8395 Oct 10 04:54 8395 Oct 20 16:47 8395 Oct 21 05:18 8395 Nov 04 03:14 8395 Nov 10 23:06 8395 Nov 18 00:03 8395 Nov 18 07:23 8395 Nov 18 07:23 8395 Nov 25 18:05 8395 Nov 27 23:04 8395 Dec 02 12:22 8395 Dec 05 13:23 8395 Dec 06 06:26 8395 Dec 21 06:38 8395 Dec 24 08:07 8395 Dec 30 20:12 8395 Dec 30 23:20 8396 Jan 06 03:55 8396 Jan 07 11:37 8396 Jan 10 07:11 8396 Jan 12 11:20 8396 Jan 29 21:44 8396 Feb 15 06:08 8396 Feb 25 11:41 8396 Feb 28 11:25	0°M. 17°M18'14 0° √ 0°√29'59 7°√38'31 5°√40'28 3°√04'05 0°√30'29 0°√15'46 30°RM. 25°M49'46 25°M52'49 29°M16'41 0°√ 24°√14'28 0° 5 11°\558'54 12°\512'59 23°\503'55 25°\518'21 0° ∞ 3° ≈33'00 0° € 20°\£36'34 26°\£40'24 25°\£55'55	0.59894 AU -4°18'27 4°16'18 18°10'16 0°46'03 0°45'46 1.41449 AU	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. desc. node evening max el retrograde evening set	8396 Sep 04 15:09 8396 Sep 05 13:35 8396 Sep 22 06:44 8396 Sep 26 02:00 8396 Oct 02 00:22 8396 Oct 15 22:32 8396 Oct 21 23:55 8396 Oct 26 12:40 8396 Oct 29 13:29 8396 Oct 29 19:21 8396 Nov 06 17:07 8396 Nov 09 01:37 8396 Nov 17 17:53 8396 Nov 18 09:20 8396 Nov 29 18:02 8396 Dec 04 03:59 8396 Dec 12 16:11 8396 Dec 12 19:29 8396 Dec 12 19:29 8396 Dec 12 19:25 8396 Dec 23 00:55 8396 Dec 23 16:15 8397 Jan 01 23:41 8397 Jan 23 18:21 8397 Feb 08 03:55 8397 Feb 08 03:55	28° m00'37 0° n 0° m 5° m06'52 11° m40'38 18° m43'01 17° m17'46 14° m40'26 12° m33'44 12° m23'29 8° m15'40 7° m58'34 12° m08'47 12° m47'11 0° x 8° x 29'46 25° x 03'19 25° x 18'56 0° 5 8° 502'39 13° 546'51 14° 552'15 0° ≈ 0° H 4° H22'14 11° H00'42 8° H45'53	25°34'51 0.57843 AU -5°12'18 5°11'17 18°50'54 1°12'18 1°12'04 1.39318 AU
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set	8395 Sep 29 14:43 8395 Oct 10 04:54 8395 Oct 20 16:47 8395 Oct 21 05:18 8395 Nov 04 03:14 8395 Nov 10 23:06 8395 Nov 18 00:03 8395 Nov 18 07:23 8395 Nov 18 07:23 8395 Nov 18 15:17 8395 Nov 25 18:05 8395 Nov 27 23:04 8395 Dec 02 12:22 8395 Dec 06 06:26 8395 Dec 05 13:23 8395 Dec 21 06:38 8395 Dec 21 06:38 8395 Dec 24 08:07 8395 Dec 30 20:12 8395 Dec 30 23:20 8396 Jan 06 03:55 8396 Jan 07 11:37 8396 Jan 10 07:11 8396 Jan 12 11:20 8396 Jan 29 21:44 8396 Feb 15 06:08 8396 Feb 25 11:41 8396 Feb 28 11:25 8396 Mar 01 08:45	0°M. 17°M18'14 0° ₹ 0°₹29'59 7°₹38'31 5°₹40'28 3°₹04'05 0°₹30'29 0°₹15'46 30°RM. 25°M49'46 25°M31'42 26°M52'49 29°M16'41 0°₹ 24°₹14'28 0°♂ 11°♂58'54 12°♂12'59 23°♂03'55 25°♂18'21 0°≈ 3°≈33'00 0°¥ 20°¥36'34 26°¥40'24 25°¥55'55 24°¥39'15	0.59894 AU -4°18'27 4°16'18 18°10'16 0°46'03 0°45'46 1.41449 AU 22°59'24	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node	8396 Sep 04 15:09 8396 Sep 05 13:35 8396 Sep 22 06:44 8396 Sep 26 02:00 8396 Oct 02 00:22 8396 Oct 15 22:32 8396 Oct 21 23:55 8396 Oct 26 12:40 8396 Oct 29 13:29 8396 Oct 29 19:21 8396 Nov 06 17:07 8396 Nov 09 01:37 8396 Nov 17 17:53 8396 Nov 18 09:20 8396 Nov 29 18:02 8396 Dec 04 03:59 8396 Dec 12 16:11 8396 Dec 12 19:29 8396 Dec 12 19:29 8396 Dec 15 07:25 8396 Dec 19 17:54 8396 Dec 23 00:55 8396 Dec 23 16:15 8397 Jan 01 23:41 8397 Jan 27 19:58 8397 Feb 08 03:55 8397 Feb 13 13:17 8397 Feb 14 08:29	28° m00'37 0° m 5° m06'52 11° m40'38 18° m43'01 17° m17'46 14° m40'26 12° m33'44 12° m23'29 8° m15'40 7° m58'34 12° m08'47 12° m47'11 0° x 8° x 29'46 25° x 18'56 0° 5 8° 502'39 13° 546'51 14° 552'15 0° ≈ 0° K 4° K22'14 11° K00'42 8° K45'53 8° K02'07	25°34'51 0.57843 AU -5°12'18 5°11'17 18°50'54 1°12'18 1°12'04 1.39318 AU 24°19'19
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node	8395 Sep 29 14:43 8395 Oct 10 04:54 8395 Oct 20 16:47 8395 Oct 21 05:18 8395 Nov 04 03:14 8395 Nov 10 23:06 8395 Nov 18 00:03 8395 Nov 18 07:23 8395 Nov 18 07:23 8395 Nov 25 18:05 8395 Nov 27 23:04 8395 Dec 02 12:22 8395 Dec 05 13:23 8395 Dec 06 06:26 8395 Dec 21 06:38 8395 Dec 24 08:07 8395 Dec 30 20:12 8395 Dec 30 23:20 8396 Jan 06 03:55 8396 Jan 07 11:37 8396 Jan 10 07:11 8396 Jan 12 11:20 8396 Jan 29 21:44 8396 Feb 15 06:08 8396 Feb 25 11:41 8396 Feb 28 11:25	0°M. 17°M18'14 0° √ 0°√29'59 7°√38'31 5°√40'28 3°√04'05 0°√30'29 0°√15'46 30°RM. 25°M49'46 25°M52'49 29°M16'41 0°√ 24°√14'28 0° 5 11°\558'54 12°\512'59 23°\503'55 25°\518'21 0° ∞ 3° ≈33'00 0° € 20°\£36'34 26°\£40'24 25°\£55'55	0.59894 AU -4°18'27 4°16'18 18°10'16 0°46'03 0°45'46 1.41449 AU 22°59'24	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. desc. node evening max el retrograde evening set	8396 Sep 04 15:09 8396 Sep 05 13:35 8396 Sep 22 06:44 8396 Sep 26 02:00 8396 Oct 02 00:22 8396 Oct 15 22:32 8396 Oct 21 23:55 8396 Oct 26 12:40 8396 Oct 29 13:29 8396 Oct 29 19:21 8396 Nov 06 17:07 8396 Nov 09 01:37 8396 Nov 17 17:53 8396 Nov 18 09:20 8396 Nov 29 18:02 8396 Dec 04 03:59 8396 Dec 12 16:11 8396 Dec 12 19:29 8396 Dec 12 19:29 8396 Dec 12 19:25 8396 Dec 23 00:55 8396 Dec 23 16:15 8397 Jan 01 23:41 8397 Jan 23 18:21 8397 Feb 08 03:55 8397 Feb 08 03:55	28° m00'37 0° n 0° m 5° m06'52 11° m40'38 18° m43'01 17° m17'46 14° m40'26 12° m33'44 12° m23'29 8° m15'40 7° m58'34 12° m08'47 12° m47'11 0° x 8° x 29'46 25° x 03'19 25° x 18'56 0° 5 8° 502'39 13° 546'51 14° 552'15 0° ≈ 0° H 4° H22'14 11° H00'42 8° H45'53	25°34'51 0.57843 AU -5°12'18 5°11'17 18°50'54 1°12'18 1°12'04 1.39318 AU 24°19'19 0.68090 AU

		>/					
minimum elong	8397 Feb 18 23:33	2° ∺ 23'37	1°28'57	morning rise	8398 Feb 08 21:03	10°≈26'55	
	8397 Feb 20 19:11	30°R≈		direct	8398 Feb 12 06:15	9°≈21'08	10000140
morning rise	8397 Feb 24 09:55	26°≈16'07		morning max el	8398 Feb 19 04:53	13°≈10'17	19°08'40
direct	8397 Feb 28 07:01	24°≈50'11	20000120		8398 Mar 03 20:50	0° ∺ 1° ∺ 06'34	0.7
morning max el	8397 Mar 07 23:18 8397 Mar 08 18:46	29° ≈ 10'13 0°) €	20°08'39	greatest brilliancy desc. node	8398 Mar 04 14:32 8398 Mar 07 21:30	6° ₩ 06'56	-0.7m
desc. node	8397 Mar 21 00:34	16° ₩ 00'58		morning set	8398 Mar 14 14:55	16° ∺ 29'04	
desc. Hode	8397 Mar 30 09:49	0°Υ		morning set	8398 Mar 23 07:34	10 γ (2904	
morning set	8397 Apr 04 12:58	7° Υ 51'29		max. Earth dist.	8398 Mar 28 08:46	7° Υ ′54'45	1.45108 AU
max. Earth dist.	8397 Apr 14 17:15	23°Y50'05	1.43968 AU	max. Darm dist.	0370 11111 20 00:10	, , 51 13	1.15100110
max. Earth dist.	8397 Apr 18 13:03	0°8	1.13700710	superior conj	8398 Mar 31 05:28	12° Y 25'50	-2°05'02
	000,711p1 10 10.00	. .		minimum elong	8398 Mar 30 23:33	12° Υ '02'25	
superior conj	8397 Apr 20 11:43	3° 8 10'31	-2°11'42		8398 Apr 11 04:04	0°8	
minimum elong	8397 Apr 20 12:50	3° 8 15'03		evening rise	8398 Apr 14 20:32	6° 8 02'04	
evening rise	8397 May 03 09:32	24° 8 58'18		C	8398 Apr 29 22:55	0° I I	
Ü	8397 May 06 07:23	0° I I		asc. node	8398 Apr 30 04:25	0° Ⅱ 18'58	
asc. node	8397 May 13 07:21	11° Ⅱ 45'23		evening max el	8398 May 04 12:04	5° Ⅱ 31′26	18°25'21
evening max el	8397 May 20 23:09	22° Ⅲ 03'35	18°07'25	retrograde	8398 May 10 22:35	8° Ⅱ 59'54	
retrograde	8397 May 27 08:57	25° Ⅲ 24'12		evening set	8398 May 14 00:48	8° Ⅱ 06'54	
evening set	8397 May 30 03:53	24° Ⅱ 44'49		inferior conj	8398 May 19 20:07	2° Ⅲ 37'36	3°16'00
inferior conj	8397 Jun 05 09:36	19° Ⅱ 33'23	2°51'22	minimum elong	8398 May 19 21:25	2° Ⅱ 33'48	3°15'43
minimum elong	8397 Jun 05 12:08	19° Ⅱ 26'42	2°50'41	min. Earth dist.	8398 May 22 02:10	29° 8 59'32	0.64509 AU
min. Earth dist.	8397 Jun 08 06:14	16° Ⅲ 33'14	0.62505 AU		8398 May 22 02:00	30° ₹ 8	
morning rise	8397 Jun 11 18:37	13° Ⅱ 26′04		morning rise	8398 May 25 17:05	26° 8 22'06	
desc. node	8397 Jun 17 00:11	11° Ⅱ 04'10		direct	8398 Jun 01 09:29	23° 8 38'28	
direct	8397 Jun 18 12:54	10° Ⅱ 56'47		desc. node	8398 Jun 03 21:11	23° 8 58'32	
morning max el	8397 Jul 02 14:49	18° Ⅲ 59'10	27°53'55		8398 Jun 13 08:45	$\Pi^{\circ}0$	
	8397 Jul 11 22:16	0		morning max el	8398 Jun 15 00:31	1° Ⅱ 36′34	27°25'12
	8397 Jul 30 15:23	$0^{\circ}\Omega$			8398 Jul 06 02:35	0ంల	
morning set	8397 Aug 05 15:51	11° Ω 42'31		morning set	8398 Jul 20 07:08	25° © 19'48	
asc. node	8397 Aug 09 06:40	19° Ω 12'35			8398 Jul 22 15:30	0 ° Ω	
max. Earth dist.	8397 Aug 11 01:33	23° Ω 01′26	1.32232 AU	max. Earth dist.	8398 Jul 24 23:51	4° Ω 47'53	1.33230 AU
				asc. node	8398 Jul 27 03:39	9° Ω 18'36	
superior conj	8397 Aug 13 06:11	27° Ω 46'35			0200 1 20 10 50	100 000150	0012100
minimum elong	8397 Aug 13 04:29	27° Ω 37'18	0°39'05	superior conj	8398 Jul 28 10:50	12° Ω 03'53	0°13'08
	8397 Aug 14 06:36	0°M)		minimum elong	8398 Jul 28 10:11	12° Ω 00′25	0°12'51
evening rise	8397 Aug 20 02:39	12° Mp 42'28		behind sun begin	8398 Jul 28 06:54	11° Ω 42'54	
daga mada	8397 Aug 28 18:34	0∘ ত		behind sun end	8398 Jul 28 13:29	$12^{\circ}\Omega 17'58$	
desc. node evening max el	8397 Sep 12 23:06 8397 Sep 13 12:54	21° △ 34'41 22° △ 08'31	24902'11	evening rise	8398 Aug 04 13:57 8398 Aug 05 20:16	27° Ω 20'24 0° m	
retrograde	8397 Sep 27 05:27	22° ⊆ 59'53	24 02 11		8398 Aug 23 19:52	0∘ ত الأس	
evening set	8397 Oct 01 23:56	28° ⊆ 09'56		evening max el	8398 Aug 26 01:18	0 = 2° ჲ 20'56	22°22'49
min. Earth dist.	8397 Oct 01 23:30 8397 Oct 07 23:33	25° £ 13'16	0.56096 AU	desc. node	8398 Aug 30 20:12	2 = 20 30 6° £ 12'47	22 22 49
inferior conj	8397 Oct 10 06:32	23° ⊆ 49'14		retrograde	8398 Sep 08 00:06	8° 亞 48'01	
minimum elong	8397 Oct 10 06:41	23° Ω 49'00		evening set	8398 Sep 11 06:35	8° £ 24'26	
morning rise	8397 Oct 18 15:32	19° £ 51'17		min. Earth dist.	8398 Sep 19 07:43	4° ♀ 52'28	0.54966 AU
direct	8397 Oct 21 09:02	19° ≏ 32'04		inferior conj	8398 Sep 20 06:11	4° ≏ 20'46	-5°09'34
morning max el	8397 Oct 31 11:01	24° £ 17'04	19°53'54	minimum elong	8398 Sep 19 22:59	4° £ 30'57	
asc. node	8397 Nov 05 06:18	29° ♀ 50'45		morning rise	8398 Sep 28 17:08	0° ء 32'59	
	8397 Nov 05 09:01	0°M		direct	8398 Oct 01 23:42	0° ჲ 08'51	
morning set	8397 Nov 18 08:22	23°M03'26		morning max el	8398 Oct 13 15:05	5° ≏ 36'33	21°18'43
	8397 Nov 21 18:06	0° ∡ ¹		asc. node	8398 Oct 23 03:17	17° ≏ 48'53	
					8398 Oct 29 21:04	0° M	
superior conj	8397 Nov 26 02:48	8° ҂ 149′03	1°29'40	morning set	8398 Nov 02 17:09	7° M 48′04	
minimum elong	8397 Nov 26 05:12	9° ∡ ¹00'55	1°29'37				
max. Earth dist.							
evening rise	8397 Dec 01 23:59	20° ≯ 12'48	1.37172 AU	superior conj	8398 Nov 09 23:54	23°M04'13	1°39'00
	8397 Dec 01 23:59 8397 Dec 05 18:13	27° ₹ 07'00	1.37172 AU	superior conj minimum elong	8398 Nov 09 23:54 8398 Nov 10 00:59	23°M04'13 23°M09'52	1°39'00 1°39'06
	8397 Dec 05 18:13 8397 Dec 07 09:08	27° ҂ 07'00 0° ප	1.37172 AU	minimum elong		23° ™ 09'52 0° ⊀	1°39'06
desc. node	8397 Dec 05 18:13 8397 Dec 07 09:08 8397 Dec 09 21:58	27° ҂ 07'00 0° ප 4° පි23'43	1.37172 AU	minimum elong max. Earth dist.	8398 Nov 10 00:59 8398 Nov 13 09:13 8398 Nov 14 10:36	23°M09'52 0°⊀ 2°⊀06'56	
	8397 Dec 05 18:13 8397 Dec 07 09:08 8397 Dec 09 21:58 8397 Dec 26 10:29	27°♂07'00 0°♂ 4°♂23'43 0°≈		minimum elong max. Earth dist. evening rise	8398 Nov 10 00:59 8398 Nov 13 09:13 8398 Nov 14 10:36 8398 Nov 18 13:53	23°M₀9'52 0°⊀ 2°⊀06'56 10°⊀08'23	1°39'06
evening max el	8397 Dec 05 18:13 8397 Dec 07 09:08 8397 Dec 09 21:58 8397 Dec 26 10:29 8398 Jan 10 09:12	27°ダ07'00 0°式 4°式23'43 0°≈ 18°≈10'27		minimum elong max. Earth dist.	8398 Nov 10 00:59 8398 Nov 13 09:13 8398 Nov 14 10:36 8398 Nov 18 13:53 8398 Nov 26 19:00	23°M09'52 0°⊀ 2°⊀06'56 10°⊀08'23 24°⊀49'41	1°39'06
evening max el retrograde	8397 Dec 05 18:13 8397 Dec 07 09:08 8397 Dec 09 21:58 8397 Dec 26 10:29 8398 Jan 10 09:12 8398 Jan 22 15:35	27° 🗷 07'00 0° පි 4° පි23'43 0° ≈ 18° ≈ 10'27 25° ≈ 13'14		minimum elong max. Earth dist. evening rise	8398 Nov 10 00:59 8398 Nov 13 09:13 8398 Nov 14 10:36 8398 Nov 18 13:53 8398 Nov 26 19:00 8398 Nov 29 22:05	23°M09'52 0° ♣7 2° ♣706'56 10° ♣708'23 24° ♣749'41 0° ᠳ	1°39'06
evening max el retrograde evening set	8397 Dec 05 18:13 8397 Dec 07 09:08 8397 Dec 09 21:58 8397 Dec 26 10:29 8398 Jan 10 09:12 8398 Jan 22 15:35 8398 Jan 28 13:41	27° 🗷 07'00 0° ට 4° ට 23'43 0° ක 18° ක10'27 25° ක13'14 22° ක46'52		minimum elong max. Earth dist. evening rise desc. node	8398 Nov 10 00:59 8398 Nov 13 09:13 8398 Nov 14 10:36 8398 Nov 18 13:53 8398 Nov 26 19:00 8398 Nov 29 22:05 8398 Dec 22 00:51	23°M09'52 0° ₹ 2° ₹06'56 10° ₹08'23 24° ₹49'41 0° ₹ 0° ≈	1°39'06 1.35237 AU
evening max el retrograde evening set asc. node	8397 Dec 05 18:13 8397 Dec 07 09:08 8397 Dec 09 21:58 8397 Dec 26 10:29 8398 Jan 10 09:12 8398 Jan 22 15:35 8398 Jan 28 13:41 8398 Feb 01 05:32	27°×707'00 0°で 4°で23'43 0°≈ 18°≈10'27 25°≈13'14 22°≈46'52 18°≈54'06	25°33'30	minimum elong max. Earth dist. evening rise desc. node evening max el	8398 Nov 10 00:59 8398 Nov 13 09:13 8398 Nov 14 10:36 8398 Nov 18 13:53 8398 Nov 26 19:00 8398 Nov 29 22:05 8398 Dec 22 00:51 8398 Dec 23 22:27	23°M09'52 0° ₹ 2° ₹06'56 10° ₹08'23 24° ₹49'41 0° ₹ 0° ≈ 1° ≈54'35	1°39'06
evening max el retrograde evening set asc. node min. Earth dist.	8397 Dec 05 18:13 8397 Dec 07 09:08 8397 Dec 09 21:58 8397 Dec 26 10:29 8398 Jan 10 09:12 8398 Jan 22 15:35 8398 Jan 28 13:41 8398 Feb 01 05:32 8398 Feb 01 22:26	27°×707'00 0°で 4°で23'43 0°≈ 18°≈10'27 25°≈13'14 22°≈46'52 18°≈54'06 18°≈01'16	25°33'30 0.67375 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	8398 Nov 10 00:59 8398 Nov 13 09:13 8398 Nov 14 10:36 8398 Nov 18 13:53 8398 Nov 26 19:00 8398 Nov 29 22:05 8398 Dec 22 00:51 8398 Dec 23 22:27 8399 Jan 05 21:52	23°M09'52 0° ₹ 2° ₹06'56 10° ₹08'23 24° ₹49'41 0° ₹ 0° ₹ 1° ₹54'35 9° ₹11'03	1°39'06 1.35237 AU
evening max el retrograde evening set asc. node	8397 Dec 05 18:13 8397 Dec 07 09:08 8397 Dec 09 21:58 8397 Dec 26 10:29 8398 Jan 10 09:12 8398 Jan 22 15:35 8398 Jan 28 13:41 8398 Feb 01 05:32	27°×707'00 0°で 4°で23'43 0°≈ 18°≈10'27 25°≈13'14 22°≈46'52 18°≈54'06	25°33'30 0.67375 AU 0°39'57	minimum elong max. Earth dist. evening rise desc. node evening max el	8398 Nov 10 00:59 8398 Nov 13 09:13 8398 Nov 14 10:36 8398 Nov 18 13:53 8398 Nov 26 19:00 8398 Nov 29 22:05 8398 Dec 22 00:51 8398 Dec 23 22:27	23°M09'52 0° ₹ 2° ₹06'56 10° ₹08'23 24° ₹49'41 0° ₹ 0° ≈ 1° ≈54'35	1°39'06 1.35237 AU

inferior conj minimum elong	8399 Jan 18 05:54 8399 Jan 18 06:22 8399 Jan 18 11:28	0°≈16'38 -0°1 0°≈15'13 0°1 30°R♂	J	8400 Jan 01 22:25 8400 Jan 02 00:52 8400 Jan 05 23:40	14°ට 303'02 -1°21'25 13°ට 56'18 1°20'13 10°ට 303'52
asc. node	8399 Jan 19 02:37	29°る15'15	morning rise	8400 Jan 08 08:45	8°る33'57
morning rise	8399 Jan 24 05:31	24° る 34'21	direct	8400 Jan 10 23:04	7° る 58'39
direct	8399 Jan 27 04:20	23° ⋜ 45'41	morning max el	8400 Jan 17 09:24	11° පි 21'38 17°57'35
morning max el	8399 Feb 02 17:05	27° ප 16'14 18°	°24'45	8400 Jan 30 08:32	0° ≈
	8399 Feb 05 04:21	0° ≈	morning set	8400 Feb 03 23:01	7° ≈ 38'45
morning set	8399 Feb 22 16:12	26° ≈ 20′09	desc. node	8400 Feb 09 15:25	17° ≈ 02'40
desc. node	8399 Feb 22 18:27	26°≈29'03			
	8399 Feb 24 23:27	0° ∀	superior conj	8400 Feb 17 22:14	0° ∺ 26'05 -0°57'33
	0200 M 10 10 27	2101/12/20 102	minimum elong	8400 Feb 17 15:36	29°≈59'39 0°56'33
superior conj	8399 Mar 10 10:37	21°\dagger 13'29 -1°3 20°\dagger 35'49 1°3		8400 Feb 17 15:42	0° 光 6° 光 50'59 1.45205 AU
minimum elong max. Earth dist.	8399 Mar 10 00:59 8399 Mar 11 03:56	20° H 33°49 1°3		8400 Feb 21 23:29 8400 Mar 05 01:04	6°
max. Earth dist.	8399 Mar 16 01:11	0° Υ	5330 AO CVCIIIIg Tisc	8400 Mar 07 21:46	0° Υ
evening rise	8399 Mar 26 08:04	16° Ƴ 09'10	greatest brilliancy	8400 Mar 19 09:37	17° Υ 21'20 -0.6m
	8399 Apr 04 03:24	0°8	g. ••	8400 Mar 28 16:18	0°8
greatest brilliancy	8399 Apr 05 06:48	1° 8 46'24 -0.8	8m evening max el	8400 Mar 31 03:25	2° 8 43'47 19°52'46
asc. node	8399 Apr 17 01:30	18° 8 11'58	asc. node	8400 Apr 02 22:36	5° 8 12'20
evening max el	8399 Apr 17 22:05	19° 8 06'05 19°	°00'56 retrograde	8400 Apr 07 16:05	7° と 04'07
retrograde	8399 Apr 24 17:58	22° 8 55'13	evening set	8400 Apr 11 10:12	5° 8 41'55
evening set	8399 Apr 28 03:44	21° 8 47'49	inferior conj	8400 Apr 16 18:53	29° Y '42'13 3°16'40
inferior conj	8399 May 03 16:14	16° 8 02'22 3°2	· ·	8400 Apr 16 17:45	29° Y ′46′01 3°16′28
minimum elong	8399 May 03 16:12	_	23'06	8400 Apr 16 13:35	30° RY
min. Earth dist.	8399 May 05 06:55	_	66143 AU min. Earth dist.	8400 Apr 17 18:55	28° Y 21'31 0.67345 AU
morning rise	8399 May 09 04:12	9° 8 44'06	morning rise	8400 Apr 22 01:01	23° Y 24'36
direct	8399 May 15 12:59	6° 8 58'02	direct	8400 Apr 27 22:35	20° Ƴ 46'39 25° Ƴ 47'12
desc. node	8399 May 21 18:11	9° 8 03'17 14° 8 39'16 26°	desc. node	8400 May 07 15:10	
morning max el	8399 May 28 11:06 8399 Jun 09 23:33	0°Ⅱ	°27'05 morning max el	8400 May 09 20:47 8400 May 11 19:50	27° Y 55'44 25°08'39 0° と
	8399 Jun 28 21:08	0° ©		8400 Jun 02 16:28	0°Ⅱ
morning set	8399 Jul 03 10:42	8° © 21'00	morning set	8400 Jun 14 22:10	20° I I34'08
max. Earth dist.	8399 Jul 07 11:48		34705 AU max. Earth dist.	8400 Jun 18 13:17	27° I I1'28 1.36615 AU
				8400 Jun 20 01:17	0 - - -
superior conj	8399 Jul 12 08:52	25°\$57'46 -0°1	16'36		
minimum elong	8399 Jul 12 09:48	26°902'37 0°1	16'34 superior conj	8400 Jun 24 21:20	9°520'30 -0°48'18
	8399 Jul 12 09.48	20 2023/ 01	superior conj	0400 Juli 24 21.20	, -2000 0 1010
asc. node	8399 Jul 12 09:48 8399 Jul 14 00:40	20 30 237 0 1 29° 5 23'48	minimum elong	8400 Jun 25 00:17	9° © 35'02 0°47'56
asc. node			1 ,		
asc. node evening rise	8399 Jul 14 00:40	29° 5 23'48	minimum elong	8400 Jun 25 00:17	9°\$35'02 0°47'56 19°\$23'55 25°\$59'29
evening rise	8399 Jul 14 00:40 8399 Jul 14 07:38 8399 Jul 19 23:04 8399 Jul 29 10:01	29°\$23'48 0°€ 11°€48'21 0°¶	minimum elong asc. node evening rise	8400 Jun 25 00:17 8400 Jun 29 21:41 8400 Jul 03 03:44 8400 Jul 05 03:42	9°\$35'02 0°47'56 19°\$23'55 25°\$59'29 0°\$\Omega\$
evening rise evening max el	8399 Jul 14 00:40 8399 Jul 14 07:38 8399 Jul 19 23:04 8399 Jul 29 10:01 8399 Aug 07 22:24	29°523'48 0°N 11°N48'21 0°M 12°M53'38 20°	minimum elong asc. node evening rise	8400 Jun 25 00:17 8400 Jun 29 21:41 8400 Jul 03 03:44 8400 Jul 05 03:42 8400 Jul 20 08:45	9°\$35'02 0°47'56 19°\$23'55 25°\$59'29 0°\$\Omega\$ 24°\$\Omega\$08'09 19°39'55
evening rise evening max el desc. node	8399 Jul 14 00:40 8399 Jul 14 07:38 8399 Jul 19 23:04 8399 Jul 29 10:01 8399 Aug 07 22:24 8399 Aug 17 17:17	29°\$23'48 0°\$Ω 11°\$Ω48'21 0°\$	minimum elong asc. node evening rise °52'26 evening max el retrograde	8400 Jun 25 00:17 8400 Jun 29 21:41 8400 Jul 03 03:44 8400 Jul 05 03:42 8400 Jul 20 08:45 8400 Jul 30 05:58	9°\$35'02 0°47'56 19°\$23'55 25°\$59'29 0°\$\Omega\$24°\$\Omega\$08'09 19°39'55 29°\$\Omega\$00'50
evening rise evening max el desc. node retrograde	8399 Jul 14 00:40 8399 Jul 14 07:38 8399 Jul 19 23:04 8399 Jul 29 10:01 8399 Aug 07 22:24 8399 Aug 17 17:17 8399 Aug 19 12:36	29°©23'48 0°N 11°N48'21 0°M 12°M53'38 20° 18°M30'03 18°M38'11	minimum elong asc. node evening rise °52'26 evening max el retrograde evening set	8400 Jun 25 00:17 8400 Jun 29 21:41 8400 Jul 03 03:44 8400 Jul 05 03:42 8400 Jul 20 08:45 8400 Jul 30 05:58 8400 Aug 01 02:20	9°\$35'02 0°47'56 19°\$23'55 25°\$59'29 0°\$\Omega\$ 24°\$\Omega\$08'09 19°39'55 29°\$\Omega\$00'50 28°\$\Omega\$51'20
evening rise evening max el desc. node retrograde evening set	8399 Jul 14 00:40 8399 Jul 14 07:38 8399 Jul 19 23:04 8399 Jul 29 10:01 8399 Aug 07 22:24 8399 Aug 17 17:17 8399 Aug 19 12:36 8399 Aug 21 17:05	29°\$23'48 0°\$\Omega\$ 11°\$\Omega\$48'21 0°\$\Omega\$ 12°\$\Omega\$53'38 20° 18°\$\Omega\$30'03 18°\$\Omega\$38'11 18°\$\Omega\$26'44	minimum elong asc. node evening rise °52'26 evening max el retrograde evening set desc. node	8400 Jun 25 00:17 8400 Jun 29 21:41 8400 Jul 03 03:44 8400 Jul 05 03:42 8400 Jul 20 08:45 8400 Jul 30 05:58 8400 Aug 01 02:20 8400 Aug 03 14:23	9°\$35'02 0°47'56 19°\$23'55 25°\$59'29 0°\$\Omega\$ 24°\$\Omega\$08'09 19°39'55 29°\$\Omega\$00'50 28°\$\Omega\$51'20 28°\$\Omega\$10'33
evening rise evening max el desc. node retrograde evening set inferior conj	8399 Jul 14 00:40 8399 Jul 14 07:38 8399 Jul 19 23:04 8399 Jul 29 10:01 8399 Aug 07 22:24 8399 Aug 17 17:17 8399 Aug 19 12:36 8399 Aug 21 17:05 8399 Aug 30 22:42	29°\$23'48 0°\$Ω 11°\$Ω48'21 0°\$\$\text{12}\$\$\text{12}\$\$\text{13}\$\$\text{13}\$\$\text{13}\$\$\text{13}\$\$\text{13}\$\$\text{13}\$\$\text{13}\$\$\text{13}\$\$\text{13}\$\$\text{14}\$\$\text{14}\$\$\text{14}\$\$\text{14}\$\$\text{12}\$\text{15}\$\$	minimum elong asc. node evening rise °52'26 evening max el retrograde evening set desc. node inferior conj	8400 Jun 25 00:17 8400 Jun 29 21:41 8400 Jul 03 03:44 8400 Jul 05 03:42 8400 Jul 20 08:45 8400 Jul 30 05:58 8400 Aug 01 02:20 8400 Aug 03 14:23 8400 Aug 09 22:31	9°\$35'02 0°47'56 19°\$23'55 25°\$59'29 0°\$\Omega\$ 24°\$\Omega\$08'09 19°39'55 29°\$\Omega\$00'50 28°\$\Omega\$51'20 28°\$\Omega\$10'33 24°\$\Omega\$48'11 -1°56'16
evening rise evening max el desc. node retrograde evening set inferior conj minimum elong	8399 Jul 14 00:40 8399 Jul 14 07:38 8399 Jul 19 23:04 8399 Jul 29 10:01 8399 Aug 07 22:24 8399 Aug 17 17:17 8399 Aug 19 12:36 8399 Aug 21 17:05 8399 Aug 30 22:42 8399 Aug 30 13:17	29°©23'48 0°Ω 11°Ω48'21 0°m 12°m53'38 18°m30'03 18°m38'11 18°m26'44 14°m29'55 -3°4 14°m43'17 3°4	minimum elong asc. node evening rise °52'26 evening max el retrograde evening set desc. node inferior conj minimum elong	8400 Jun 25 00:17 8400 Jun 29 21:41 8400 Jul 03 03:44 8400 Jul 05 03:42 8400 Jul 20 08:45 8400 Jul 30 05:58 8400 Aug 01 02:20 8400 Aug 03 14:23 8400 Aug 09 22:31 8400 Aug 09 17:13	9°\$35'02 0°47'56 19°\$23'55 25°\$59'29 0°\$\Omega\$ 24°\$\Omega\$08'09 19°39'55 29°\$\Omega\$00'50 28°\$\Omega\$15'20 28°\$\Omega\$10'33 24°\$\Omega\$48'11 -1°56'16 24°\$\Omega\$6'30 1°54'22
evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist.	8399 Jul 14 00:40 8399 Jul 14 07:38 8399 Jul 19 23:04 8399 Jul 29 10:01 8399 Aug 07 22:24 8399 Aug 17 17:17 8399 Aug 19 12:36 8399 Aug 21 17:05 8399 Aug 30 22:42 8399 Aug 30 13:17 8399 Aug 31 16:45	29°\$23'48 0°\$Ω 11°\$Ω48'21 0°\$	minimum elong asc. node evening rise °52'26 evening max el retrograde evening set desc. node inferior conj minimum elong 64702 AU min. Earth dist.	8400 Jun 25 00:17 8400 Jun 29 21:41 8400 Jul 03 03:44 8400 Jul 05 03:42 8400 Jul 20 08:45 8400 Jul 30 05:58 8400 Aug 01 02:20 8400 Aug 03 14:23 8400 Aug 09 22:31 8400 Aug 09 17:13 8400 Aug 12 04:39	9°\$35'02 0°47'56 19°\$23'55 25°\$59'29 0°\$\Omega\$ 24°\$\Omega\$08'09 19°39'55 29°\$\Omega\$00'50 28°\$\Omega\$15'20 28°\$\Omega\$10'33 24°\$\Omega\$48'11 -1°56'16 24°\$\Omega\$6'30 1°54'22 23°\$\Omega\$23'37 0.55401 AU
evening rise evening max el desc. node retrograde evening set inferior conj minimum elong	8399 Jul 14 00:40 8399 Jul 14 07:38 8399 Jul 19 23:04 8399 Jul 29 10:01 8399 Aug 07 22:24 8399 Aug 17 17:17 8399 Aug 19 12:36 8399 Aug 21 17:05 8399 Aug 30 22:42 8399 Aug 30 13:17 8399 Aug 31 16:45 8399 Sep 08 09:39	29°©23'48 0°Ω 11°Ω48'21 0°m 12°m53'38 18°m30'03 18°m38'11 18°m26'44 14°m29'55 -3°4 14°m43'17 3°4	minimum elong asc. node evening rise °52'26 evening max el retrograde evening set desc. node inferior conj minimum elong	8400 Jun 25 00:17 8400 Jun 29 21:41 8400 Jul 03 03:44 8400 Jul 05 03:42 8400 Jul 20 08:45 8400 Jul 30 05:58 8400 Aug 01 02:20 8400 Aug 03 14:23 8400 Aug 09 22:31 8400 Aug 09 17:13 8400 Aug 12 04:39 8400 Aug 18 05:52	9°\$35'02 0°47'56 19°\$23'55 25°\$59'29 0°\$\Omega\$ 24°\$\Omega\$08'09 19°39'55 29°\$\Omega\$00'50 28°\$\Omega\$1'20 28°\$\Omega\$10'33 24°\$\Omega\$48'11 -1°56'16 24°\$\Omega\$6'30 1°54'22 23°\$\Omega\$23'37 0.55401 AU 20°\$\Omega\$21'44
evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8399 Jul 14 00:40 8399 Jul 14 07:38 8399 Jul 19 23:04 8399 Jul 29 10:01 8399 Aug 07 22:24 8399 Aug 17 17:17 8399 Aug 19 12:36 8399 Aug 21 17:05 8399 Aug 30 22:42 8399 Aug 30 13:17 8399 Aug 31 16:45	29°\$23'48 0°\$Ω 11°\$Ω48'21 0°\$\$\text{my}\$13'38 20° 18°\$\$\text{my}\$30'03 18°\$\$\text{my}\$38'11 18°\$\$\text{my}\$26'44 14°\$\$\text{my}\$29'55 -3°4 14°\$\$\text{my}\$43'17 3°4 14°\$\$\text{my}\$43'17 3°4 14°\$\$\text{my}\$04'14 0.55 10°\$\$\text{my}\$32'33 9°\$\$\text{my}\$59'41	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	8400 Jun 25 00:17 8400 Jun 29 21:41 8400 Jul 03 03:44 8400 Jul 05 03:42 8400 Jul 20 08:45 8400 Jul 30 05:58 8400 Aug 01 02:20 8400 Aug 03 14:23 8400 Aug 09 22:31 8400 Aug 09 17:13 8400 Aug 12 04:39	9°\$35'02 0°47'56 19°\$23'55 25°\$59'29 0°\$\Omega\$ 24°\$\Omega\$08'09 19°39'55 29°\$\Omega\$00'50 28°\$\Omega\$15'20 28°\$\Omega\$10'33 24°\$\Omega\$48'11 -1°56'16 24°\$\Omega\$6'30 1°54'22 23°\$\Omega\$23'37 0.55401 AU
evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8399 Jul 14 00:40 8399 Jul 14 07:38 8399 Jul 19 23:04 8399 Jul 29 10:01 8399 Aug 07 22:24 8399 Aug 17 17:17 8399 Aug 19 12:36 8399 Aug 21 17:05 8399 Aug 30 22:42 8399 Aug 30 13:17 8399 Aug 31 16:45 8399 Sep 08 09:39 8399 Sep 12 07:42	29°\$23'48 0°\$Ω 11°\$Ω48'21 0°\$m 12°\$\$\mathbf{n}\$53'38 20° 18°\$\$\mathbf{n}\$30'03 18°\$\$\mathbf{n}\$36'11 18°\$\$\mathbf{n}\$26'44 14°\$\$\mathbf{n}\$29'55 -3°4 14°\$\$\mathbf{n}\$43'17 3°4 14°\$\$\mathbf{n}\$04'14 0.55 10°\$\$\mathbf{n}\$32'33 9°\$\$\mathbf{n}\$59'41	minimum elong asc. node evening rise ostalia evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	8400 Jun 25 00:17 8400 Jun 29 21:41 8400 Jul 03 03:44 8400 Jul 05 03:42 8400 Jul 20 08:45 8400 Jul 30 05:58 8400 Aug 01 02:20 8400 Aug 03 14:23 8400 Aug 09 22:31 8400 Aug 09 17:13 8400 Aug 12 04:39 8400 Aug 18 05:52 8400 Aug 22 22:54	9°\$35'02 0°47'56 19°\$23'55 25°\$59'29 0°\$\Omega\$ 24°\$\Omega\$00'50 28°\$\Omega\$1'20 28°\$\Omega\$10'33 24°\$\Omega\$48'11 -1°56'16 24°\$\Omega\$630 1°54'22 23°\$\Omega\$23'37 0.55401 AU 20°\$\Omega\$21'44 19°\$\Omega\$223
evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8399 Jul 14 00:40 8399 Jul 14 07:38 8399 Jul 19 23:04 8399 Jul 29 10:01 8399 Aug 07 22:24 8399 Aug 17 17:17 8399 Aug 19 12:36 8399 Aug 21 17:05 8399 Aug 30 22:42 8399 Aug 30 13:17 8399 Aug 31 16:45 8399 Sep 08 09:39 8399 Sep 12 07:42 8399 Sep 25 08:25	29°©23'48 0°Ω 11°Ω48'21 0°™ 12°™53'38 20° 18°™30'03 18°™38'11 18°™26'44 14°™29'55 -3°4 14°™04'17 3°4 14°™04'14 0.50 10°™32'33 9°™59'41 16°™13'56 22°	minimum elong asc. node evening rise ostalia evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	8400 Jun 25 00:17 8400 Jun 29 21:41 8400 Jul 03 03:44 8400 Jul 05 03:42 8400 Jul 20 08:45 8400 Jul 30 05:58 8400 Aug 01 02:20 8400 Aug 09 17:13 8400 Aug 09 17:13 8400 Aug 12 04:39 8400 Aug 18 05:52 8400 Aug 22 22:54 8400 Sep 05 20:55	9°\$35'02 0°47'56 19°\$23'55 25°\$59'29 0°\$\Omega\$ 24°\$\Omega\$00'50 28°\$\Omega\$1'20 28°\$\Omega\$10'33 24°\$\Omega\$48'11 -1°56'16 24°\$\Omega\$23'37 0.55401 AU 20°\$\Omega\$21'44 19°\$\Omega\$2323 26°\$\Omega\$28'38 24°45'39
evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	8399 Jul 14 00:40 8399 Jul 14 07:38 8399 Jul 19 23:04 8399 Jul 29 10:01 8399 Aug 07 22:24 8399 Aug 17 17:17 8399 Aug 19 12:36 8399 Aug 21 17:05 8399 Aug 30 22:42 8399 Aug 30 13:17 8399 Aug 31 16:45 8399 Sep 08 09:39 8399 Sep 12 07:42 8399 Sep 25 08:25 8399 Oct 06 04:37	29°€23'48 0°€0 11°€048'21 0°™ 12°™53'38 20° 18°™30'03 18°™38'11 18°™26'44 14°™29'55 -3°4 14°™04'14 0.5: 10°™32'33 9°™59'41 16°™13'56 0°£ 6°£28'47 22°£37'58	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong 44702 AU min. Earth dist. morning rise direct morning max el	8400 Jun 25 00:17 8400 Jun 29 21:41 8400 Jul 03 03:44 8400 Jul 05 03:42 8400 Jul 20 08:45 8400 Jul 30 05:58 8400 Aug 01 02:20 8400 Aug 03 14:23 8400 Aug 09 17:13 8400 Aug 12 04:39 8400 Aug 18 05:52 8400 Aug 22 22:54 8400 Sep 05 20:55 8400 Sep 09 06:12	9°\$35'02 0°47'56 19°\$23'55 25°\$59'29 0°\$\Omega\$ 24°\$\Omega\$08'09 19°39'55 29°\$\Omega\$00'50 28°\$\Omega\$1'20 28°\$\Omega\$10'33 24°\$\Omega\$48'11 -1°56'16 24°\$\Omega\$6'30 1°54'22 23°\$\Omega\$23'37 0.55401 AU 20°\$\Omega\$21'44 19°\$\Omega\$32'23 26°\$\Omega\$28'38 24°45'39 0°\$\Omega\$2\$ \Omega\$15 0°\$\Omega\$
evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	8399 Jul 14 00:40 8399 Jul 14 07:38 8399 Jul 19 23:04 8399 Jul 29 10:01 8399 Aug 07 22:24 8399 Aug 17 17:17 8399 Aug 19 12:36 8399 Aug 21 17:05 8399 Aug 30 22:42 8399 Aug 30 13:17 8399 Aug 31 16:45 8399 Sep 08 09:39 8399 Sep 12 07:42 8399 Sep 25 08:25 8399 Oct 06 04:37 8399 Oct 10 00:17	29°€23'48 0°€0 11°€0 11°€0 11°€0 12°™ 12°™ 13°™ 18°™ 11° 18°™ 11° 18°™ 11° 18°™ 11° 18°™ 11° 18°™ 11° 11° 11° 11° 11° 11° 11° 11° 11° 1	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong 46'36 minimum elong min. Earth dist. morning rise direct morning max el	8400 Jun 25 00:17 8400 Jun 29 21:41 8400 Jul 03 03:44 8400 Jul 05 03:42 8400 Jul 20 08:45 8400 Jul 30 05:58 8400 Aug 01 02:20 8400 Aug 03 14:23 8400 Aug 09 22:31 8400 Aug 09 17:13 8400 Aug 12 04:39 8400 Aug 18 05:52 8400 Aug 22 22:54 8400 Sep 05 20:55 8400 Sep 09 06:12 8400 Sep 25 21:17	9°\$35'02 0°47'56 19°\$23'55 25°\$59'29 0°\$\Omega\$ 24°\$\Omega\$08'09 19°39'55 29°\$\Omega\$00'50 28°\$\Omega\$15'20 28°\$\Omega\$10'33 24°\$\Omega\$48'11 -1°56'16 24°\$\Omega\$6'30 1°54'22 23°\$\Omega\$23'37 0.55401 AU 20°\$\Omega\$21'44 19°\$\Omega\$2'23 26°\$\Omega\$28'38 24°45'39 0°\$\Omega\$25°\$\Omega\$9'15
evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	8399 Jul 14 00:40 8399 Jul 14 07:38 8399 Jul 19 23:04 8399 Jul 29 10:01 8399 Aug 07 22:24 8399 Aug 17 17:17 8399 Aug 19 12:36 8399 Aug 21 17:05 8399 Aug 30 22:42 8399 Aug 30 13:17 8399 Aug 31 16:45 8399 Sep 08 09:39 8399 Sep 12 07:42 8399 Sep 12 07:42 8399 Sep 25 08:25 8399 Oct 06 04:37 8399 Oct 10 00:17 8399 Oct 18 04:20 8399 Oct 21 14:54	29°©23'48 0°Ω 11°Ω48'21 0°™ 12°™53'38 20° 18°™30'03 18°™38'11 18°™26'44 14°™29'55 -3°4 14°™43'17 3°4 14°™04'14 0.5. 10°™32'33 9°™59'41 16°™13'56 22° 6°Ω28'47 22°Ω37'58 0°™.	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong 46'36 minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	8400 Jun 25 00:17 8400 Jun 29 21:41 8400 Jul 03 03:44 8400 Jul 05 03:42 8400 Jul 20 08:45 8400 Jul 30 05:58 8400 Aug 01 02:20 8400 Aug 03 14:23 8400 Aug 09 22:31 8400 Aug 09 17:13 8400 Aug 12 04:39 8400 Aug 12 04:39 8400 Aug 22 22:54 8400 Sep 05 20:55 8400 Sep 09 06:12 8400 Sep 25 21:17 8400 Sep 28 02:05 8400 Oct 01 16:06	9°\$35'02 0°47'56 19°\$23'55 25°\$59'29 0°\$\Omega\$ 24°\$\Omega\$08'09 19°39'55 29°\$\Omega\$00'50 28°\$\Omega\$1'20 28°\$\Omega\$10'33 24°\$\Omega\$48'11 -1°56'16 24°\$\Omega\$6'30 1°54'22 23°\$\Omega\$23'37 0.55401 AU 20°\$\Omega\$21'44 19°\$\Omega\$2'23 26°\$\Omega\$28'38 24°45'39 0°\$\Omega\$25°\$\Omega\$39'15 0°\$\Omega\$7°\$\Omega\$26'53
evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	8399 Jul 14 00:40 8399 Jul 14 07:38 8399 Jul 19 23:04 8399 Jul 29 10:01 8399 Aug 07 22:24 8399 Aug 17 17:17 8399 Aug 19 12:36 8399 Aug 21 17:05 8399 Aug 30 22:42 8399 Aug 30 13:17 8399 Aug 31 16:45 8399 Sep 08 09:39 8399 Sep 12 07:42 8399 Sep 12 07:42 8399 Sep 25 08:25 8399 Oct 06 04:37 8399 Oct 10 00:17 8399 Oct 18 04:20 8399 Oct 21 14:54	29°\$23'48 0°\$\Omega\$ 11°\$\Omega\$48'21 0°\$\Omega\$ 12°\$\Omega\$53'38 20° 18°\$\Omega\$3'11 18°\$\Omega\$26'44 14°\$\Omega\$29'55 -3°4 14°\$\Omega\$43'17 3°4 44°\$\Omega\$43'17 3°4 16°\$\Omega\$2'33 9°\$\Omega\$59'41 16°\$\Omega\$13'56 0°\$\Omega\$6°\$\Omega\$28'47 22°\$\Omega\$37'58 0°\$\Omega\$1.	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong 64702 AU minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set 41'15 superior conj	8400 Jun 25 00:17 8400 Jun 29 21:41 8400 Jul 03 03:44 8400 Jul 05 03:42 8400 Jul 20 08:45 8400 Jul 30 05:58 8400 Aug 01 02:20 8400 Aug 03 14:23 8400 Aug 09 22:31 8400 Aug 09 17:13 8400 Aug 12 04:39 8400 Aug 18 05:52 8400 Aug 18 05:52 8400 Aug 22 22:54 8400 Sep 05 20:55 8400 Sep 09 06:12 8400 Sep 28 02:05 8400 Oct 01 16:06	9°\$35'02 0°47'56 19°\$23'55 25°\$59'29 0°\$\Omega\$ 24°\$\Omega\$08'09 19°39'55 29°\$\Omega\$00'50 28°\$\Omega\$1'20 28°\$\Omega\$113 24°\$\Omega\$48'11 -1°56'16 24°\$\Omega\$6'30 1°54'22 23°\$\Omega\$23'37 0.55401 AU 20°\$\Omega\$21'44 19°\$\Omega\$22'3 26°\$\Omega\$28'38 24°45'39 0°\$\Omega\$ 25°\$\Omega\$39'15 0°\$\Omega\$ 7°\$\Omega\$26'53
evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	8399 Jul 14 00:40 8399 Jul 14 07:38 8399 Jul 19 23:04 8399 Jul 29 10:01 8399 Aug 07 22:24 8399 Aug 17 17:17 8399 Aug 19 12:36 8399 Aug 21 17:05 8399 Aug 30 22:42 8399 Aug 30 13:17 8399 Aug 31 16:45 8399 Sep 08 09:39 8399 Sep 12 07:42 8399 Sep 12 07:42 8399 Sep 25 08:25 8399 Oct 06 04:37 8399 Oct 10 00:17 8399 Oct 18 04:20 8399 Oct 21 14:54	29°\$23'48 0°\$\Omega\$ 11°\$\Omega\$48'21 0°\$\Omega\$12" \text{M\$53'38} \text{20°} 18°\$\Omega\$30'03 18°\$\Omega\$31'11 18°\$\Omega\$26'44 14°\$\Omega\$29'55 -3°4 14°\$\Omega\$43'17 3°4 14°\$\Omega\$43'17 3°4 14°\$\Omega\$43'17 3°4 16°\$\Omega\$13'56 0.5 0°\$\Omega\$6°\$\Omega\$28'47 22°\$\Omega\$37'58 0°\$\Omega\$1.	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	8400 Jun 25 00:17 8400 Jun 29 21:41 8400 Jul 03 03:44 8400 Jul 05 03:42 8400 Jul 20 08:45 8400 Jul 30 05:58 8400 Aug 01 02:20 8400 Aug 03 14:23 8400 Aug 09 22:31 8400 Aug 09 17:13 8400 Aug 12 04:39 8400 Aug 18 05:52 8400 Aug 18 05:52 8400 Aug 22 22:54 8400 Sep 05 20:55 8400 Sep 09 06:12 8400 Sep 25 21:17 8400 Sep 28 02:05 8400 Oct 08 13:05 8400 Oct 08 11:50	9°\$35'02 0°47'56 19°\$23'55 25°\$59'29 0°\$\Omega\$ 24°\$\Omega\$00'50 28°\$\Omega\$1'20 28°\$\Omega\$1'20 28°\$\Omega\$1'20 28°\$\Omega\$23'37 0.55401 AU 20°\$\Omega\$21'44 19°\$\Omega\$22'3 26°\$\Omega\$28'38 24°\$\Omega\$45'39 0°\$\Omega\$25'39 1°37'13 22°\$\Omega\$25'39 1°37'13
evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	8399 Jul 14 00:40 8399 Jul 14 07:38 8399 Jul 19 23:04 8399 Jul 29 10:01 8399 Aug 07 22:24 8399 Aug 17 17:17 8399 Aug 19 12:36 8399 Aug 21 17:05 8399 Aug 30 22:42 8399 Aug 30 13:17 8399 Aug 31 16:45 8399 Sep 08 09:39 8399 Sep 12 07:42 8399 Sep 12 07:42 8399 Sep 25 08:25 8399 Oct 06 04:37 8399 Oct 10 00:17 8399 Oct 18 04:20 8399 Oct 25 04:14 8399 Oct 25 04:02 8399 Oct 28 04:57	29°\$23'48 0°\$\Omega\$ 11°\$\Omega\$48'21 0°\$\mathbf{m}\$ 12°\$\mathbf{m}\$53'38 20° 18°\$\mathbf{m}\$30'03 18°\$\mathbf{m}\$38'11 18°\$\mathbf{m}\$26'44 14°\$\mathbf{m}\$29'55 -3°4 14°\$\mathbf{m}\$43'17 3°4 14°\$\mathbf{m}\$04'14 0.55 10°\$\mathbf{m}\$32'33 9°\$\mathbf{m}\$59'41 16°\$\mathbf{m}\$13'56 0°\$\mathbf{L}\$ 6°\$\mathbf{L}\$28'47 22°\$\mathbf{L}\$37'58 0°\$\mathbf{m}\$ 7°\$\mathbf{m}\$39'30 1°4 7°\$\mathbf{m}\$38'27 1°4 14°\$\mathbf{m}\$04'37 1.3:	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong 64702 AU minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set 41'15 superior conj	8400 Jun 25 00:17 8400 Jun 29 21:41 8400 Jul 03 03:44 8400 Jul 05 03:42 8400 Jul 20 08:45 8400 Jul 30 05:58 8400 Aug 01 02:20 8400 Aug 03 14:23 8400 Aug 09 22:31 8400 Aug 09 17:13 8400 Aug 12 04:39 8400 Aug 18 05:52 8400 Aug 18 05:52 8400 Aug 22 22:54 8400 Sep 05 20:55 8400 Sep 09 06:12 8400 Sep 25 21:17 8400 Sep 28 02:05 8400 Oct 01 16:06	9°\$35'02 0°47'56 19°\$23'55 25°\$59'29 0°\$\Omega\$ 24°\$\Omega\$00'50 28°\$\Omega\$1'20 28°\$\Omega\$10'33 24°\$\Omega\$48'11 -1°56'16 24°\$\Omega\$6'30 1°54'22 23°\$\Omega\$2'37 0.55401 AU 20°\$\Omega\$21'44 19°\$\Omega\$223 26°\$\Omega\$28'38 24°45'39 0°\$\Omega\$25'39 1°37'13 22°\$\Omega\$25'39 1°37'13 22°\$\Omega\$15'02 1.32533 AU
evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	8399 Jul 14 00:40 8399 Jul 14 07:38 8399 Jul 19 23:04 8399 Jul 29 10:01 8399 Aug 07 22:24 8399 Aug 17 17:17 8399 Aug 19 12:36 8399 Aug 21 17:05 8399 Aug 30 22:42 8399 Aug 30 13:17 8399 Aug 31 16:45 8399 Sep 08 09:39 8399 Sep 12 07:42 8399 Sep 12 07:42 8399 Sep 25 08:25 8399 Oct 06 04:37 8399 Oct 10 00:17 8399 Oct 18 04:20 8399 Oct 21 14:54 8399 Oct 25 04:14 8399 Oct 25 04:02 8399 Oct 28 04:57 8399 Nov 01 23:26	29° © 23'48 0° Ω 11° Ω 48'21 0° m 12° m 53'38 18° m 30'03 18° m 38'11 18° m 26'44 14° m 29'55 -3°4 14° m 04'14 0.53 10° m 32'33 9° m 59'41 16° m 13'56 0° Ω 6° Ω 28'47 22° Ω 37'58 0° m 7° m 39'30 1° 4 7° m 38'27 1° 41° m 04'37 1.31 23° m 47'09	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set 41'15 superior conj minimum elong max. Earth dist.	8400 Jun 25 00:17 8400 Jun 29 21:41 8400 Jul 03 03:44 8400 Jul 05 03:42 8400 Jul 20 08:45 8400 Jul 30 05:58 8400 Aug 01 02:20 8400 Aug 03 14:23 8400 Aug 09 22:31 8400 Aug 09 17:13 8400 Aug 12 04:39 8400 Aug 18 05:52 8400 Aug 18 05:52 8400 Aug 22 22:54 8400 Sep 05 20:55 8400 Sep 09 06:12 8400 Sep 25 21:17 8400 Sep 28 02:05 8400 Oct 01 16:06 8400 Oct 08 13:05 8400 Oct 10 07:10 8400 Oct 12 00:55	9°\$35'02 0°47'56 19°\$23'55 25°\$59'29 0°\$\Omega\$ 24°\$\Omega\$00'50 28°\$\Omega\$1'20 28°\$\Omega\$1'20 28°\$\Omega\$1'20 23°\$\Omega\$2'37 0.55401 AU 20°\$\Omega\$2'37 20°\$\Omega\$21'44 19°\$\Omega\$2'23 26°\$\Omega\$28'38 24°\$\Omega\$45'39 0°\$\Omega\$25'\$\Omega\$39'15 0°\$\Omega\$7"\$\Omega\$26'53 22°\$\Omega\$25'39 1°37'13 22°\$\Omega\$18'48 1°37'12 26°\$\Omega\$15'02 1.32533 AU 0°\$\Omega\$
evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	8399 Jul 14 00:40 8399 Jul 14 07:38 8399 Jul 19 23:04 8399 Jul 29 10:01 8399 Aug 07 22:24 8399 Aug 17 17:17 8399 Aug 19 12:36 8399 Aug 19 12:36 8399 Aug 21 17:05 8399 Aug 30 22:42 8399 Aug 30 13:17 8399 Aug 31 16:45 8399 Sep 08 09:39 8399 Sep 12 07:42 8399 Sep 12 07:42 8399 Sep 25 08:25 8399 Oct 06 04:37 8399 Oct 10 00:17 8399 Oct 10 00:17 8399 Oct 18 04:20 8399 Oct 25 04:02 8399 Oct 25 04:02 8399 Oct 28 04:57 8399 Nov 01 23:26 8399 Nov 05 04:41	29°\$23'48 0°\$\Omega\$ 11°\$\Omega\$48'21 0°\$\mathbf{m}\$ 12°\$\mathbf{m}\$53'38 20° 18°\$\mathbf{m}\$30'03 18°\$\mathbf{m}\$38'11 18°\$\mathbf{m}\$26'44 14°\$\mathbf{m}\$29'55 -3°4 14°\$\mathbf{m}\$43'17 3°4 14°\$\mathbf{m}\$04'14 0.50 10°\$\mathbf{m}\$32'33 9°\$\mathbf{m}\$59'41 16°\$\mathbf{m}\$13'56 22° 0°\$\mathbf{m}\$6'\$\mathbf{\textit{\Omega}}\$28'47 22°\$\mathbf{\textit{\Omega}}\$28'47 22°\$\mathbf{\textit{\Omega}}\$37'58 0°\$\mathbf{m}\$ 7°\$\mathbf{m}\$38'27 1°4 14°\$\mathbf{m}\$04'37 1.33 23°\$\mathbf{m}\$47'09 0°\$\mathbf{x}\$	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	8400 Jun 25 00:17 8400 Jun 29 21:41 8400 Jul 03 03:44 8400 Jul 05 03:42 8400 Jul 20 08:45 8400 Jul 30 05:58 8400 Aug 01 02:20 8400 Aug 03 14:23 8400 Aug 09 22:31 8400 Aug 09 17:13 8400 Aug 12 04:39 8400 Aug 18 05:52 8400 Aug 22 22:54 8400 Sep 05 20:55 8400 Sep 09 06:12 8400 Sep 25 21:17 8400 Sep 28 02:05 8400 Oct 01 16:06 8400 Oct 08 13:05 8400 Oct 08 11:50 8400 Oct 12 00:55 8400 Oct 15 19:14	9°\$35'02 0°47'56 19°\$23'55 25°\$59'29 0°\$\Omega\$ 24°\$\Omega\$08'09 19°39'55 29°\$\Omega\$00'50 28°\$\Omega\$1'20 28°\$\Omega\$1'20 28°\$\Omega\$23'37 0.55401 AU 20°\$\Omega\$21'44 19°\$\Omega\$2'23 26°\$\Omega\$28'38 24°45'39 0°\$\Omega\$2\$ 20°\$\Omega\$25'39 1°37'13 22°\$\Omega\$15'02 1.32533 AU 0°\$\Omega\$1.
evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	8399 Jul 14 00:40 8399 Jul 14 07:38 8399 Jul 19 23:04 8399 Jul 29 10:01 8399 Aug 07 22:24 8399 Aug 17 17:17 8399 Aug 19 12:36 8399 Aug 19 12:36 8399 Aug 21 17:05 8399 Aug 30 22:42 8399 Aug 30 13:17 8399 Aug 31 16:45 8399 Sep 08 09:39 8399 Sep 12 07:42 8399 Sep 12 07:42 8399 Sep 25 08:25 8399 Oct 06 04:37 8399 Oct 10 00:17 8399 Oct 10 00:17 8399 Oct 18 04:20 8399 Oct 25 04:02 8399 Oct 25 04:02 8399 Oct 28 04:57 8399 Nov 01 23:26 8399 Nov 05 04:41 8399 Nov 13 16:05	29°€23'48 0°€0 11°€048'21 0°™ 12°™53'38 20° 18°™30'03 18°™38'11 18°™26'44 14°™29'55 -3°4 14°™04'17 3°4 14°™04'14 0.5 10°™32'33 9°™59'41 16°™13'56 22° 0°• 6°••28'47 22°•37'58 0°™ 7°™39'30 1°4 7°™39'30 1°4 7°™38'27 1°4 14°™04'37 1.3: 23°™47'09 0°₹7 14°₹59'23	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set 41'15 superior conj minimum elong max. Earth dist. evening rise	8400 Jun 25 00:17 8400 Jun 29 21:41 8400 Jul 03 03:44 8400 Jul 05 03:42 8400 Jul 20 08:45 8400 Jul 30 05:58 8400 Aug 01 02:20 8400 Aug 03 14:23 8400 Aug 09 22:31 8400 Aug 09 17:13 8400 Aug 12 04:39 8400 Aug 18 05:52 8400 Aug 22 22:54 8400 Sep 05 20:55 8400 Sep 09 06:12 8400 Sep 25 21:17 8400 Sep 28 02:05 8400 Oct 01 16:06 8400 Oct 08 11:50 8400 Oct 10 07:10 8400 Oct 12 00:55 8400 Oct 15 19:14 8400 Oct 27 15:39	9°\$35'02 0°47'56 19°\$23'55 25°\$59'29 0°\$\Omega\$ 24°\$\Omega\$08'09 19°39'55 29°\$\Omega\$00'50 28°\$\Omega\$15'20 28°\$\Omega\$10'33 24°\$\Omega\$48'11 -1°56'16 24°\$\Omega\$6'30 1°54'22 23°\$\Omega\$23'37 0.55401 AU 20°\$\Omega\$21'44 19°\$\Omega\$22'23 26°\$\Omega\$28'38 24°45'39 0°\$\Omega\$20'\Omega\$39'15 0°\$\Omega\$7'\Omega\$26'53 22°\$\Omega\$25'39 1°37'13 22°\$\Omega\$18'48 1°37'12 26°\$\Omega\$15'02 1.32533 AU 0°\$\Omega\$7'\Omega\$25'57 0°\$\nabla\$
evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	8399 Jul 14 00:40 8399 Jul 14 07:38 8399 Jul 19 23:04 8399 Jul 29 10:01 8399 Aug 07 22:24 8399 Aug 17 17:17 8399 Aug 19 12:36 8399 Aug 21 17:05 8399 Aug 30 22:42 8399 Aug 30 13:17 8399 Aug 31 16:45 8399 Sep 08 09:39 8399 Sep 12 07:42 8399 Sep 12 07:42 8399 Sep 12 07:42 8399 Oct 06 04:37 8399 Oct 10 00:17 8399 Oct 10 00:17 8399 Oct 18 04:20 8399 Oct 25 04:14 8399 Oct 25 04:02 8399 Oct 25 04:02 8399 Nov 01 23:26 8399 Nov 05 04:41 8399 Nov 13 16:05 8399 Nov 23 12:33	29°€23'48 0°€0 11°€048'21 0°™ 12°™53'38 20° 18°™33'03 18°™38'11 18°™26'44 14°™29'55 -3°4 14°™04'14 0.5. 10°™32'33 9°™59'41 16°™13'56 0°£ 6°£28'47 22°£37'58 0°™. 7°™39'30 1°4 7°™39'30 1°4 14°™04'37 1.3. 23°™47'09 0°⊀7 14°⊀759'23 0°℃	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set direct morning max el asc. node morning set 41'15 superior conj minimum elong max. Earth dist. evening rise desc. node	8400 Jun 25 00:17 8400 Jun 29 21:41 8400 Jul 03 03:44 8400 Jul 05 03:42 8400 Jul 20 08:45 8400 Jul 30 05:58 8400 Aug 01 02:20 8400 Aug 03 14:23 8400 Aug 09 22:31 8400 Aug 09 17:13 8400 Aug 12 04:39 8400 Aug 12 04:39 8400 Aug 12 02:55 8400 Sep 05 20:55 8400 Sep 09 06:12 8400 Sep 25 21:17 8400 Sep 28 02:05 8400 Oct 01 16:06 8400 Oct 08 13:05 8400 Oct 10 07:10 8400 Oct 12 00:55 8400 Oct 15 19:14 8400 Oct 27 15:39 8400 Oct 30 13:09	9°\$35'02 0°47'56 19°\$23'55 25°\$59'29 0°\$\Omega\$ 24°\$\Omega\$08'09 19°39'55 29°\$\Omega\$00'50 28°\$\Omega\$1'20 28°\$\Omega\$11 -1°56'16 24°\$\Omega\$6'30 1°54'22 23°\$\Omega\$23'37 0.55401 AU 20°\$\Omega\$21'44 19°\$\Omega\$2'23 26°\$\Omega\$28'38 24°45'39 0°\$\Omega\$2'5'39 1°37'13 22°\$\Omega\$25'39 1°37'13 22°\$\Omega\$15'02 1.32533 AU 0°\$\Omega\$7"\$\Omega\$25'57 0°\$\omega\$4"44'46
evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	8399 Jul 14 00:40 8399 Jul 14 07:38 8399 Jul 19 23:04 8399 Jul 29 10:01 8399 Aug 07 22:24 8399 Aug 17 17:17 8399 Aug 19 12:36 8399 Aug 19 12:36 8399 Aug 21 17:05 8399 Aug 30 22:42 8399 Aug 30 13:17 8399 Aug 31 16:45 8399 Sep 08 09:39 8399 Sep 12 07:42 8399 Sep 12 07:42 8399 Sep 25 08:25 8399 Oct 06 04:37 8399 Oct 10 00:17 8399 Oct 10 00:17 8399 Oct 18 04:20 8399 Oct 25 04:02 8399 Oct 25 04:02 8399 Oct 28 04:57 8399 Nov 01 23:26 8399 Nov 05 04:41 8399 Nov 13 16:05	29°€23'48 0°€0 11°€048'21 0°™ 12°™53'38 20° 18°™30'03 18°™38'11 18°™26'44 14°™29'55 -3°4 14°™04'17 3°4 14°™04'14 0.5 10°™32'33 9°™59'41 16°™13'56 22° 0°• 6°••28'47 22°•37'58 0°™ 7°™39'30 1°4 7°™39'30 1°4 7°™38'27 1°4 14°™04'37 1.3: 23°™47'09 0°₹7 14°₹59'23	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set direct morning set direct asc. node morning set 41'15 superior conj minimum elong max. Earth dist. evening rise desc. node	8400 Jun 25 00:17 8400 Jun 29 21:41 8400 Jul 03 03:44 8400 Jul 05 03:42 8400 Jul 20 08:45 8400 Jul 30 05:58 8400 Aug 01 02:20 8400 Aug 03 14:23 8400 Aug 09 22:31 8400 Aug 09 17:13 8400 Aug 12 04:39 8400 Aug 18 05:52 8400 Aug 22 22:54 8400 Sep 05 20:55 8400 Sep 09 06:12 8400 Sep 25 21:17 8400 Sep 28 02:05 8400 Oct 01 16:06 8400 Oct 08 11:50 8400 Oct 10 07:10 8400 Oct 12 00:55 8400 Oct 15 19:14 8400 Oct 27 15:39	9°\$35'02 0°47'56 19°\$23'55 25°\$59'29 0°\$\Omega\$ 24°\$\Omega\$08'09 19°39'55 29°\$\Omega\$00'50 28°\$\Omega\$15'20 28°\$\Omega\$10'33 24°\$\Omega\$48'11 -1°56'16 24°\$\Omega\$6'30 1°54'22 23°\$\Omega\$23'37 0.55401 AU 20°\$\Omega\$21'44 19°\$\Omega\$22'23 26°\$\Omega\$28'38 24°45'39 0°\$\Omega\$20'\Omega\$39'15 0°\$\Omega\$7'\Omega\$26'53 22°\$\Omega\$25'39 1°37'13 22°\$\Omega\$18'48 1°37'12 26°\$\Omega\$15'02 1.32533 AU 0°\$\Omega\$7'\Omega\$25'57 0°\$\nabla\$
evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	8399 Jul 14 00:40 8399 Jul 14 07:38 8399 Jul 19 23:04 8399 Jul 29 10:01 8399 Aug 07 22:24 8399 Aug 17 17:17 8399 Aug 19 12:36 8399 Aug 19 12:36 8399 Aug 21 17:05 8399 Aug 30 22:42 8399 Aug 30 13:17 8399 Aug 31 16:45 8399 Sep 08 09:39 8399 Sep 12 07:42 8399 Sep 12 07:42 8399 Sep 25 08:25 8399 Oct 06 04:37 8399 Oct 10 00:17 8399 Oct 10 00:17 8399 Oct 18 04:20 8399 Oct 21 14:54 8399 Oct 25 04:14 8399 Oct 25 04:02 8399 Nov 01 23:26 8399 Nov 05 04:41 8399 Nov 13 16:05 8399 Nov 23 12:33 8399 Dec 06 11:20	29°€23'48 0°€0 11°€048'21 0°™ 12°™53'38 20° 18°™30'03 18°™38'11 18°™26'44 14°™29'55 -3°4 14°™04'14 0.5. 10°™32'33 9°™59'41 16°™13'56 22° 0°£ 6°£28'47 22°£37'58 0°™. 7°™39'30 1°4 7°™39'30 1°4 7°™38'27 1°4 14°™04'37 1.3. 23°™47'09 0°⊀7 14°⊀759'23 0°♂15°♂25'53 27°	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set direct morning max el asc. node morning set 41'15 superior conj minimum elong max. Earth dist. evening rise desc. node	8400 Jun 25 00:17 8400 Jun 29 21:41 8400 Jul 03 03:44 8400 Jul 05 03:42 8400 Jul 20 08:45 8400 Jul 30 05:58 8400 Aug 01 02:20 8400 Aug 03 14:23 8400 Aug 09 22:31 8400 Aug 09 17:13 8400 Aug 12 04:39 8400 Aug 18 05:52 8400 Aug 18 05:52 8400 Sep 05 20:55 8400 Sep 09 06:12 8400 Sep 25 21:17 8400 Sep 28 02:05 8400 Oct 01 16:06 8400 Oct 08 13:05 8400 Oct 10 07:10 8400 Oct 12 00:55 8400 Oct 15 19:14 8400 Oct 27 15:39 8400 Oct 30 13:09 8400 Nov 17 22:21	9°\$35'02 0°47'56 19°\$23'55 25°\$59'29 0°\$\Omega\$ 24°\$\Omega\$08'09 19°39'55 29°\$\Omega\$00'50 28°\$\Omega\$1'20 28°\$\Omega\$10'33 24°\$\Omega\$48'11 -1°56'16 24°\$\Omega\$6'30 1°54'22 23°\$\Omega\$23'37 0.55401 AU 20°\$\Omega\$2'23 26°\$\Omega\$2'23 26°\$\Omega\$2'88 24°45'39 0°\$\Omega\$2'53 22°\$\Omega\$25'39 1°37'13 22°\$\Omega\$15'02 1.32533 AU 0°\$\Omega\$7 \(\Omega\$7\Omega\$15'57 0°\$\omega\$7 4°\$\Omega\$44'46 28°\$\omega\$32'17 27°29'15
evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	8399 Jul 14 00:40 8399 Jul 14 07:38 8399 Jul 19 23:04 8399 Jul 29 10:01 8399 Aug 07 22:24 8399 Aug 17 17:17 8399 Aug 19 12:36 8399 Aug 19 12:36 8399 Aug 21 17:05 8399 Aug 30 22:42 8399 Aug 31 16:45 8399 Sep 08 09:39 8399 Sep 12 07:42 8399 Sep 12 07:42 8399 Sep 12 07:42 8399 Oct 06 04:37 8399 Oct 10 00:17 8399 Oct 18 04:20 8399 Oct 21 14:54 8399 Oct 25 04:14 8399 Oct 25 04:02 8399 Nov 01 23:26 8399 Nov 05 04:41 8399 Nov 13 16:05 8399 Nov 23 12:33 8399 Dec 06 11:20 8399 Dec 19 22:22	29°€23'48 0°€0 11°€048'21 0°™ 12°™53'38 20° 18°™30'03 18°™38'11 18°™26'44 14°™29'55 -3°4 14°™04'14 0.5. 10°™32'33 9°™59'41 16°™13'56 0°№ 6°№28'47 22°№37'58 0°™. 7°™39'30 1°4 7°™39'30 1°4 7°™38'27 14°™04'37 1.3. 23°™47'09 0°♂ 11°™35'53 22°♂46'40	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong 34702 AU minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set 41'15 superior conj minimum elong max. Earth dist. evening rise desc. node evening rise desc. node evening rise desc. node evening max el retrograde	8400 Jun 25 00:17 8400 Jun 29 21:41 8400 Jul 03 03:44 8400 Jul 05 03:42 8400 Jul 20 08:45 8400 Jul 30 05:58 8400 Aug 01 02:20 8400 Aug 03 14:23 8400 Aug 09 22:31 8400 Aug 09 17:13 8400 Aug 12 04:39 8400 Aug 18 05:52 8400 Aug 22 22:54 8400 Sep 05 20:55 8400 Sep 09 06:12 8400 Sep 25 21:17 8400 Sep 28 02:05 8400 Oct 01 16:06 8400 Oct 08 13:05 8400 Oct 10 07:10 8400 Oct 12 00:55 8400 Oct 15 19:14 8400 Oct 27 15:39 8400 Oct 30 13:09 8400 Nov 17 22:21 8400 Nov 19 12:59	9°\$35'02 0°47'56 19°\$23'55 25°\$59'29 0°\$\Omega\$ 24°\$\Omega\$08'09 19°39'55 29°\$\Omega\$00'50 28°\$\Omega\$1'20 28°\$\Omega\$10'33 24°\$\Omega\$48'11 -1°56'16 24°\$\Omega\$6'30 1°54'22 23°\$\Omega\$23'37 0.55401 AU 20°\$\Omega\$21'44 19°\$\Omega\$32'23 26°\$\Omega\$28'38 24°45'39 0°\$\Omega\$20\$ 7°\$\Omega\$26'53 22°\$\Omega\$25'39 1°37'13 22°\$\Omega\$18'48 1°37'12 26°\$\Omega\$15'02 1.32533 AU 0°\$\Omega\$1. 7°\$\Omega\$52'57 0°\$\omega\$4 4°\$\omega\$44'46 28°\$\omega\$32'17 27°29'15 0°\$\omega\$5

•	•			`		, .	•
min. Earth dist.	8400 Dec 12 10:56	0°₹14'02	0.63092 AU		8401 Oct 03 16:53	0°M	
	8400 Dec 12 16:49	30°₽ √		desc. node	8401 Oct 17 10:13	23°M56'07	
inferior conj	8400 Dec 15 04:55	27° х 32′00	-2°30'28		8401 Oct 21 16:17	0° ∡ ″	
minimum elong	8400 Dec 15 09:41	27° ∡ ¹20'16	2°28'26	evening max el	8401 Oct 31 05:14	11° ₹ 01'15	27°10'53
morning rise	8400 Dec 22 03:27	22° ҂ 19′00		retrograde	8401 Nov 14 02:19	18° ≯ 12'38	
asc. node	8400 Dec 22 20:44	22° ₹ 05'39		evening set	8401 Nov 21 02:55	16° ₹ 00′29	
direct	8400 Dec 24 11:36	21° ₹ 53′11		min. Earth dist.	8401 Nov 24 19:58	13° ⊀ 16'15	0.61099 AU
morning max el	8400 Dec 31 02:47	25° ≯ 18′02	17°47'47	inferior conj	8401 Nov 27 22:13	10° ₹ 35'24	
	8401 Jan 04 00:50	0°る		minimum elong	8401 Nov 28 05:00	10° ≯ 20′39	3°38'07
morning set	8401 Jan 16 07:04	20°る10'12		morning rise	8401 Dec 05 09:22	5° ≯ 41'43	
	8401 Jan 21 23:05	0° ≈		direct	8401 Dec 07 14:27	5° ₹ 21'41	
desc. node	8401 Jan 26 12:23	7° ≈ 43'25		asc. node	8401 Dec 09 17:47	5° ∡ ′41′09	
				morning max el	8401 Dec 14 17:56		17°56'22
superior conj	8401 Jan 28 07:18	10°≈42'12			8401 Dec 28 10:52	0°る	
minimum elong	8401 Jan 28 05:57	10°≈36'36	0°12'44	morning set	8401 Dec 30 09:47	3° る 34'30	
behind sun begin	8401 Jan 28 00:12	10°≈12'45			0403 1 00 17 50	220711124	0926140
behind sun end	8401 Jan 28 11:42	11°≈00'26	1 44170 ATT	superior conj minimum elong	8402 Jan 09 17:58	22°る11'34 22°る21'11	0°26'49 0°26'39
max. Earth dist.	8401 Feb 03 16:50 8401 Feb 09 07:37	21° ≈ 07'27 0°) €	1.44179 AU	desc. node	8402 Jan 09 20:10 8402 Jan 13 09:20	22° る 21'11 28° る 27'41	0-2639
ovening rise	8401 Feb	4° 升 57'04		desc. node	8402 Jan 13 09:20 8402 Jan 14 07:09	28° 6 2/41 0° ≈	
evening rise	8401 Mar 01 07:39	4 χ3/04 0° Υ		max. Earth dist.	8402 Jan 17 06:27	0 ≈ 4°≈57'18	1.42572 AU
evening max el	8401 Mar 14 03:16	16° Υ 23'06	20050122	evening rise	8402 Jan 23 09:00	4 ≈37 18 14°≈48'57	1.42372 AU
asc. node	8401 Mar 20 19:41	21°\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot	20 38 22	evening rise	8402 Feb 02 06:35	0°) (
retrograde	8401 Mar 22 14:35	21°\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot			8402 Feb 24 20:28	0°Υ	
evening set	8401 Mar 26 18:12	19° Y 44'38		evening max el	8402 Feb 24 22:02	0° Υ 03'57	22°13'46
inferior conj	8401 Apr 01 01:31		2°58'46	retrograde	8402 Mar 06 11:38	5° Υ 44'05	22 13 10
minimum elong	8401 Mar 31 23:38	13° Υ 39'27	2°58'23	asc. node	8402 Mar 07 16:47	5° Υ 36'37	
min. Earth dist.	8401 Apr 01 12:03	12°Υ56'30	0.68100 AU	evening set	8402 Mar 11 02:03	3° Υ 51'29	
morning rise	8401 Apr 06 04:50	7° Υ 18'09		<i>3</i>	8402 Mar 14 14:13	30° ₹	
direct	8401 Apr 11 13:10	4° Y 56'15		inferior conj	8402 Mar 16 09:59	27°) € 30′25	2°31'03
morning max el	8401 Apr 22 05:53	11° Y 19'15	23°40'12	minimum elong	8402 Mar 16 07:45	27°) 38′12	2°30'29
desc. node	8401 Apr 24 12:09	13° Y 43'29		min. Earth dist.	8402 Mar 16 08:01	27°) 37'17	0.68423 AU
	8401 May 07 03:08	0° 8		morning rise	8402 Mar 21 13:17	21°) €20'00	
	8401 May 26 11:17	$\Pi^{\circ}0$		direct	8402 Mar 26 07:40	19°) 1 9′00	
morning set	8401 May 27 12:08	1° Ⅱ 45′09		morning max el	8402 Apr 04 17:15	24°)(49'49	22°11'21
max. Earth dist.	8401 May 31 09:17	8° Ⅱ 27'54	1.38814 AU		8402 Apr 09 08:20	$0^{\circ}\Upsilon$	
				desc. node	8402 Apr 11 09:04	2° Y 31'28	
superior conj	8401 Jun 07 20:37	22° Ⅱ 03'35			8402 Apr 30 14:00	9° 8	
minimum elong	8401 Jun 08 01:33	22° Ⅱ 26'43	1°19'15	morning set	8402 May 07 23:25	11° 8 40'25	
	8401 Jun 12 00:35	0		max. Earth dist.	8402 May 13 07:33		1.41051 AU
asc. node	8401 Jun 16 18:43	9° © 15'13			8402 May 18 20:49	Π °0	
evening rise	8401 Jun 17 01:12	9° © 46'45				_	
	8401 Jun 28 08:51	$0^{\circ}\Omega$		superior conj	8402 May 21 02:10	3° Ⅱ 55′24	
evening max el	8401 Jul 03 07:19	6° Ω 07'25	18°48'05	minimum elong	8402 May 21 08:02	4° Ⅱ 21'30	1°47'16
retrograde	8401 Jul 11 14:59	10° Ω 14'46		evening rise	8402 May 31 11:53	23° I I00'25	
evening set	8401 Jul 13 14:58	10° Ω 01'23		asc. node	8402 Jun 03 15:44	28° ∏ 52'28	
desc. node inferior conj	8401 Jul 21 11:26 8401 Jul 21 16:44	5° Ω 50'52 5° Ω 41'17	0.04,00	evening max el	8402 Jun 04 06:27 8402 Jun 16 14:28	0°ഇ 18° ഇ 42'53	18°16'50
		5° Ω 41'35		•		18 942 33 22°919'56	18 10 30
minimum elong transit middle	8401 Jul 21 16:33 8401 Jul 21 16:33	5° Ω 41'35		retrograde evening set	8402 Jun 23 19:20 8402 Jun 26 02:31	22°958'35	
transit begin	8401 Jul 21 12:59	5° Ω 48'05	0 0703	inferior conj	8402 Jul 03 08:39	21 \$3833 17°\$17'45	1°25'43
transit end	8401 Jul 21 20:08	5° Ω 35'04		minimum elong	8402 Jul 03 11:15	17°917'43	1°24'41
min. Earth dist.	8401 Jul 24 20:32		0.56934 AU	min. Earth dist.	8402 Jul 06 18:04	14°925'53	0.58993 AU
morning rise	8401 Jul 29 14:44	0° Ω 38'00	0.50751710	desc. node	8402 Jul 08 08:30	13°5012'11	0.50775710
	8401 Jul 31 06:55	30° ₹ 55		morning rise	8402 Jul 10 16:49	11°5941'33	
direct	8401 Aug 04 04:10	29° © 23'03		direct	8402 Jul 16 22:55	9° © 55'41	
	8401 Aug 08 02:15	0° Ω		morning max el	8402 Jul 31 07:57	17°5642'58	27°25'02
morning max el	8401 Aug 18 11:21	6° Ω 49'58	26°19'03	<i>S</i>	8402 Aug 10 13:25	0°N	
5	8401 Sep 04 14:52	0° my			8402 Aug 28 04:16	0° m/y	
asc. node	8401 Sep 12 18:16	15° mp 12'14		asc. node	8402 Aug 30 15:14	5° m 00'57	
morning set	8401 Sep 16 02:47	22° mp 10'10		morning set	8402 Aug 31 10:44	6° mp 42′57	
ū	8401 Sep 19 17:29	0∘ <u>⊽</u>		max. Earth dist.	8402 Sep 07 01:22	-	1.31640 AU
	-				-		
superior conj	8401 Sep 23 00:20	7° ≙ 16'00	1°27'31	superior conj	8402 Sep 07 12:06	22°M 04'32	1°12'37
minimum elong	8401 Sep 22 22:22	7° ≏ 05'08	1°27'19	minimum elong	8402 Sep 07 09:51	21° m 52'03	1°12'15
max. Earth dist.	8401 Sep 23 15:05		1.31859 AU		8402 Sep 11 02:00	0。 亚	
evening rise	8401 Sep 29 22:22	22° ≏ 17'43		evening rise	8402 Sep 14 06:23	6° £ 54'12	

	9402 C 26 06-02	oo m		44-	9402 C 21 04-24	200 0 27122	
1 1	8402 Sep 26 06:02	0°M		desc. node	8403 Sep 21 04:24	29° ₽ 37'32	
desc. node	8402 Oct 04 07:18	12°M20'05	2 (01 012 0		8403 Sep 21 12:13	0°M	0.405511.6
evening max el	8402 Oct 13 05:09	22°M41'51	26°18'38	evening max el	8403 Sep 24 20:51	3°M31'34	24°57′16
retrograde	8402 Oct 27 03:11	29°M46'56		retrograde	8403 Oct 08 17:18	10°M30'29	
evening set	8402 Nov 02 16:54	28°M02'04		evening set	8403 Oct 14 07:13	9°M20'12	
min. Earth dist.	8402 Nov 06 18:21	25° ™ 27'37	0.59008 AU	min. Earth dist.	8403 Oct 19 08:12	6° M ₊37'07	0.57045 AU
inferior conj	8402 Nov 09 22:46	23°M03'39	-4°43'49	inferior conj	8403 Oct 22 03:32	4°M46'44	-5°27'05
minimum elong	8402 Nov 10 05:56	22°M50'06	4°42'03	minimum elong	8403 Oct 22 07:30	4°M40'13	5°26'37
morning rise	8402 Nov 17 21:18	18°MJ32'18		morning rise	8403 Oct 30 10:03	0°ML38'18	
direct	8402 Nov 20 03:19	18° M ₊14'53		direct	8403 Nov 01 21:51	0°M20'39	
asc. node	8402 Nov 26 14:48	20°MJ48'41		morning max el	8403 Nov 11 03:27	4°M43'58	19°15'01
morning max el	8402 Nov 28 03:22	22°M09'15	18°24'54	asc. node	8403 Nov 13 11:48	7° M ₊14'28	-,
morning max er	8402 Dec 04 06:14	0° √	10 24 34	ase. Houe	8403 Nov 27 02:14	0° √	
				. ,			
morning set	8402 Dec 14 01:39	17° ∡ ³35′28		morning set	8403 Nov 28 02:22	1° ∡ 759'46	
	8402 Dec 20 13:49	0°ಕ				=	
		_		superior conj	8403 Dec 06 06:10	18° ≯ 10'15	1°20'41
superior conj	8402 Dec 23 03:20	4° る 46'12	0°58'18	minimum elong	8403 Dec 06 09:10	18° х 24'44	1°20'33
minimum elong	8402 Dec 23 06:43	5° る 01'47	0°58'01		8403 Dec 12 13:01	0°ರ	
max. Earth dist.	8402 Dec 30 15:39	18° る 09'24	1.40563 AU	max. Earth dist.	8403 Dec 12 21:22	0° る 37'56	1.38389 AU
desc. node	8402 Dec 31 06:19	19° る 12'21		evening rise	8403 Dec 16 15:26	7° る 18'09	
evening rise	8403 Jan 04 01:16	25° ⋜ 34'42		desc. node	8403 Dec 18 03:20	9° ට 53'08	
	8403 Jan 06 18:15	0° ≈			8403 Dec 30 16:37	0° ≈	
	8403 Jan 27 00:46	0° ¥		evening max el	8404 Jan 21 02:19	27°≈34'09	24°51'53
		13° ¥ 47'49	22022120	evening max ci	8404 Jan 23 17:41	0° ₩	24 31 33
evening max el	8403 Feb 07 13:07		23 33 39				
retrograde	8403 Feb 18 05:55	20° 米 06′50		retrograde	8404 Feb 01 20:21	4°) € 24'40	
asc. node	8403 Feb 22 13:51	18°) 35′34		evening set	8404 Feb 07 11:14	2°) 04'17	
evening set	8403 Feb 23 08:15	17° ¥ 59'30		asc. node	8404 Feb 09 10:56	0°) €06′25	
min. Earth dist.	8403 Feb 28 04:40	12° 升 19'42	0.68330 AU		8404 Feb 09 13:13	30° R ≈	
inferior conj	8403 Feb 28 18:27	11° ∺ 32′29	1°54'27	min. Earth dist.	8404 Feb 11 23:50	26° ≈ 58'53	0.67834 AU
minimum elong	8403 Feb 28 16:19	11°) 39′50	1°53'48	inferior conj	8404 Feb 13 01:04	25° ≈ 35'35	1°09'29
morning rise	8403 Mar 06 00:21	5° ¥ 27'43		minimum elong	8404 Feb 12 23:31	25° ≈ 40'44	1°08'59
direct	8403 Mar 10 04:58	3° ¥ 49'15		morning rise	8404 Feb 18 12:02	19° ≈ 37'53	
morning max el	8403 Mar 18 10:36	8° ¥ 32'05	20°49'58	direct	8404 Feb 22 03:50	18° ≈ 21'03	
desc. node	8403 Mar 29 06:00	21° X 57'24	20 47 30	morning max el	8404 Feb 29 11:46	22°≈26'27	19°41'15
desc. Hode		21 γ (3/24 0° γ		morning max er			19 41 13
	8403 Apr 03 20:46				8404 Mar 06 20:03	0° ∀	0.6
morning set	8403 Apr 17 08:42	20° Y °25'55		greatest brilliancy	8404 Mar 13 05:45	9°) €03'39	-0.6m
	8403 Apr 23 09:54	0°8		desc. node	8404 Mar 15 02:57	11° ¥ 50'45	
max. Earth dist.	8403 Apr 25 12:32	3° 8 24'18	1.43038 AU	morning set	8404 Mar 26 06:09	28°) 45′22	
					8404 Mar 27 01:31	0° Y	
superior conj	8403 May 02 09:22	14° 8 45'56	-2°06'57	max. Earth dist.	8404 Apr 07 00:13	17° Ƴ 06′08	1.44531 AU
minimum elong	8403 May 02 13:24	15° 8 02'55	2°06'54				
	8403 May 11 04:57	Π°		superior conj	8404 Apr 11 15:49	24° Y 32'03	-2°11'21
evening rise	8403 May 14 07:35	5° Ⅱ 30'45		minimum elong	8404 Apr 11 14:02	24° Y 24'51	2°11'23
asc. node	8403 May 21 12:45	18° Ⅱ 10′25		C	8404 Apr 15 00:41	0°B	
	8403 May 29 11:35	0.ತಾ		evening rise	8404 Apr 25 07:39	17° 8 07'47	
evening max el	8403 May 31 02:24	1°9545'04	18°05'21	evening rise	8404 May 02 23:21	0°II	
•	8403 Jun 06 16:12	5°907'42	10 03 21	aga mada	8404 May 07 09:48	7° Ⅱ 02'33	
retrograde				asc. node	•		10012151
evening set	8403 Jun 09 06:52	4°935'33		evening max el	8404 May 13 15:46	15° Ⅱ 05'25	18°12'51
	8403 Jun 15 09:58	30°RⅡ		retrograde	8404 May 20 00:57	18° Ⅱ 28'09	
inferior conj	8403 Jun 15 20:19	29° Ⅱ 34'39	2°27'28	evening set	8404 May 22 22:51	17° Ⅱ 43'16	
minimum elong	8403 Jun 15 23:17	29° Ⅲ 27'21	2°26'32	inferior conj	8404 May 28 23:41	12° Ⅱ 24'03	3°04'14
min. Earth dist.	8403 Jun 18 23:35	26° Ⅲ 30′51	0.61238 AU	minimum elong	8404 May 29 01:43	12° Ⅱ 18′22	3°03'44
morning rise	8403 Jun 22 13:24	23° Ⅲ 35′27		min. Earth dist.	8404 May 31 14:23	9° Ⅱ 30′59	0.63387 AU
desc. node	8403 Jun 25 05:32	22° Ⅲ 08′21		morning rise	8404 Jun 04 03:11	6° Ⅱ 12'05	
direct	8403 Jun 29 05:17	21° Ⅲ 20′02		direct	8404 Jun 10 21:20	3° Ⅱ 35′09	
morning max el	8403 Jul 13 11:24	29° Ⅱ 19'47	27°54'29	desc. node	8404 Jun 11 02:34	3° Ⅱ 35'18	
morning man er	8403 Jul 14 03:20	0.00 213.11	2, 5.2,	morning max el	8404 Jun 24 19:40	11° I I38'05	27°45'53
		0° U		morning max cr	8404 Jul 09 08:25	0°9	27 43 33
morning ast	8403 Aug 04 12:27					0° U	
morning set	8403 Aug 15 14:05	20° Ω 59'47			8404 Jul 26 22:46		
asc. node	8403 Aug 17 12:10	25° Ω 00'01		morning set	8404 Jul 29 10:37	4°€54'22	
	8403 Aug 19 20:20	0° ™		asc. node	8404 Aug 03 09:08	15° Ω 05'00	
max. Earth dist.	8403 Aug 21 10:03	3° Mp 25'01	1.31880 AU	max. Earth dist.	8404 Aug 03 13:10	15° Ω 26'21	1.32590 AU
superior conj	8403 Aug 22 22:37	6° Mp 45'36	0°52'55	superior conj	8404 Aug 06 06:02	21° Ω 13'45	0°28'48
minimum elong	8403 Aug 22 20:34	6° Mp 34′18	0°52'27	minimum elong	8404 Aug 06 04:43	21° Ω 06'36	0°28'25
evening rise	8403 Aug 29 17:10	21° m/35'52		S	8404 Aug 10 06:55	0° m/y	
- B	8403 Sep 02 17:51	0ം ರ		evening rise	8404 Aug 13 04:50	6° m) 17'03	
	p 0= 17.01	- —				· . / 0.5	

	9404 4 25 15-56	000			9405 I-1 21 06.06	50 0 10/5 (
	8404 Aug 25 15:56	0∘ ʊ	22010115	asc. node	8405 Jul 21 06:06	5° Ω 10'56	
evening max el	8404 Sep 05 08:08	13° △ 48'40	23°19'45	evening rise	8405 Jul 28 15:25	20° Ω 50'59	
desc. node	8404 Sep 07 01:30	15° ≏ 23'12			8405 Aug 02 02:42	0° m ∕	
retrograde	8404 Sep 18 19:24	20° ≏ 32'46		evening max el	8405 Aug 17 23:25	24° Mp 06'10	21°42'42
evening set	8404 Sep 22 22:12	19° ≏ 55'44		desc. node	8405 Aug 24 22:37	29° Mp 04'56	
min. Earth dist.	8404 Sep 29 17:40	16° ≏ 45'36	0.55519 AU		8405 Aug 27 18:14	0∘ ऌ	
inferior conj	8404 Oct 01 12:31	15° ≏ 42'43	-5°31'27	retrograde	8405 Aug 30 10:14	0° ≙ 16'49	
minimum elong	8404 Oct 01 09:22	15° ≏ 47'21	5°31'11	evening set	8405 Sep 02 03:22	0° ჲ 00'13	
morning rise	8404 Oct 09 22:40	11° ≙ 51'02			8405 Sep 02 03:47	30°₽, Т р	
direct	8404 Oct 12 21:05	11° ≏ 30'15		inferior conj	8405 Sep 11 07:30	26°Mp01'19	-4°41'34
morning max el	8404 Oct 23 15:15	16° ≏ 32'49	20°27'27	minimum elong	8405 Sep 10 22:25	26° m 14'01	4°39'31
asc. node	8404 Oct 30 08:48	24° £ 43'20		min. Earth dist.	8405 Sep 11 02:11	26° m 08'46	0.54737 AU
use. node	8404 Nov 02 16:13	0°M		morning rise	8405 Sep 19 18:36	22° m) 11'44	0.5 1757 110
marning sat	8404 Nov 11 08:54	16°M38'55		direct	•	-	
morning set		10 ll€3633			8405 Sep 23 07:26	21° Mp 44'24	22900112
	8404 Nov 17 20:11	0. X.		morning max el	8405 Oct 05 14:11	27° m/32'36	22°00'13
					8405 Oct 08 00:07	0∘ ⊽	
superior conj	8404 Nov 18 21:45		1°34'31	asc. node	8405 Oct 17 05:48	13° ≙ 00'37	
minimum elong	8404 Nov 18 23:37	2° ∡ 19'38	1°34'34		8405 Oct 26 02:27	0° M	
max. Earth dist.	8404 Nov 24 04:22	12° ∡ ³36'43	1.36312 AU	morning set	8405 Oct 26 18:57	1°M26'15	
evening rise	8404 Nov 28 01:27	19° ∡ ′54′13					
	8404 Dec 03 18:18	8°0		superior conj	8405 Nov 02 22:17	16°M34'52	1°40'45
desc. node	8404 Dec 04 00:22	0° る 25'54		minimum elong	8405 Nov 02 22:48	16°MJ37'39	1°40'52
	8404 Dec 23 17:49	0° ≈		max. Earth dist.	8405 Nov 06 17:57	24°M29'55	1.34523 AU
evening max el	8405 Jan 02 15:24	11° ≈ 20'59	26°01'27		8405 Nov 09 11:53	0° ∡ ¹	
retrograde	8405 Jan 15 06:02	18° ≈ 31'41	20 0127	evening rise	8405 Nov 11 03:31	3° × 712'59	
-	8405 Jan 21 09:21	16°≈01'20		desc. node	8405 Nov 20 21:26	20° х 45'45	
evening set			0.66055 AII	desc. node			
min. Earth dist.	8405 Jan 25 15:17	11° ≈ 30'28	0.66955 AU		8405 Nov 26 15:24	0°る	26054155
asc. node	8405 Jan 26 08:02	10° ≈ 38′29		evening max el	8405 Dec 16 04:48	25° පි 01'46	26°54'55
inferior conj	8405 Jan 27 03:57	9° ≈ 36'11	0°16'32		8405 Dec 22 09:30	0° ≈	
minimum elong	8405 Jan 27 03:31	9° ≈ 37'32	0°16'30	retrograde	8405 Dec 29 10:02	2° ≈ 21'01	
morning rise	8405 Feb 01 22:18	3° ≈ 47′26			8406 Jan 04 17:10	30°Rる	
direct	8405 Feb 05 02:46	2° ≈ 49'31		evening set	8406 Jan 05 00:40	29° る 45'28	
morning max el	8405 Feb 11 20:26	6° ≈ 29'43	18°47'52	min. Earth dist.	8406 Jan 09 00:44	25° る 48'54	0.65715 AU
	8405 Feb 28 16:02	0° ∀		inferior conj	8406 Jan 11 00:58	23° る 29'48	-0°43'47
desc. node	8405 Mar 01 23:54	2° 升 04'08		minimum elong	8406 Jan 11 02:14	23° る 26'10	0°43'05
morning set	8405 Mar 05 16:08	7°){ 48'44		asc. node	8406 Jan 13 05:08	21° ට 04'41	
morning set	8405 Mar 19 20:38	0° Υ		morning rise	8406 Jan 17 04:54	17°る52'28	
max. Earth dist.	8405 Mar 20 17:03	1° Υ 19'59	1.45375 AU	direct	8406 Jan 19 23:50	17°る09'56	
max. Earth dist.	8403 Mai 20 17.03	1 1 1 1 9 3 9	1.43373 AU			17 30930 20°る36'14	10011101
	040534 02 02 14	200020107	1055150	morning max el	8406 Jan 26 10:41		18°11'01
superior conj	8405 Mar 22 02:14	3° Y 30'07			8406 Feb 02 17:49	0° ≈	
minimum elong	8405 Mar 21 17:56	2° Y 57'31	1°55'26	morning set	8406 Feb 14 06:10	18° ≈ 18'19	
evening rise	8405 Apr 06 08:29	27° Y ′45'56		desc. node	8406 Feb 16 20:51	22° ≈ 31'54	
	8405 Apr 07 17:44	9° 8			8406 Feb 21 12:23	0° ℋ	
greatest brilliancy	8405 Apr 12 18:37	8° 8 07'18	-0.9m				
asc. node	8405 Apr 24 06:52	25° 8 20'09		superior conj	8406 Mar 01 07:48	12° ∺ 22'32	-1°22'10
evening max el	8405 Apr 27 03:43	28° 8 36'38	18°38'29	minimum elong	8406 Feb 28 22:47	11°)(47'04	1°21'04
	8405 Apr 28 16:05	$\Pi^{\circ}0$		max. Earth dist.	8406 Mar 03 12:43	15° ¥ 50'11	1.45484 AU
retrograde	8405 May 03 17:19	2° Ⅱ 12'30			8406 Mar 12 14:33	$0^{\circ}\mathbf{\Upsilon}$	
evening set	8405 May 06 22:38	1° Ⅱ 13'35		evening rise	8406 Mar 17 11:03	7° Ƴ 33'09	
3	8405 May 08 14:17	30°R₩		greatest brilliancy	8406 Mar 29 12:09	26° Ƴ 08'53	-0.7m
inferior conj	8405 May 12 14:41	25° 8 37'31	3°20'57	greatest offinancy	8406 Apr 01 02:04	0°8	0.7111
minimum elong	8405 May 12 15:24	25° 8 35'20	3°20'45	evening max el	8406 Apr 10 12:02	12° 8 13'51	19°21'11
•	•	23° 8 12'52		•	•	12° 8 53'01	19 21 11
min. Earth dist.	8405 May 14 14:18		0.03232 AU	asc. node	8406 Apr 11 03:59		
morning rise	8405 May 18 07:24	19° 8 20'14		retrograde	8406 Apr 17 14:06	16° 8 14'42	
direct	8405 May 24 21:13	16° 8 33'46		evening set	8406 Apr 21 03:21	15° 8 01'00	
desc. node	8405 May 28 23:36	17° 8 28'28		inferior conj	8406 Apr 26 13:55	9° 8 09'28	3°21'55
morning max el	8405 Jun 07 05:54	24° 8 27'08	27°03'32	minimum elong	8406 Apr 26 13:23	9° 8 11'12	3°21'47
	8405 Jun 12 05:49	Π °0		min. Earth dist.	8406 Apr 27 22:16	7° 8 24'02	0.66715 AU
	8405 Jul 02 18:37	0 \circ \odot		morning rise	8406 May 01 23:03	2° 8 51'24	
morning set	8405 Jul 12 21:21	18° © 17'21		direct	8406 May 08 03:33	0° 8 07'29	
max. Earth dist.	8405 Jul 17 06:57	26°\$59'30	1.33792 AU	desc. node	8406 May 15 20:36	3° 8 19'24	
	8405 Jul 18 18:17	$0^{\circ}\Omega$		morning max el	8406 May 20 15:58	7° 8 36'17	25°55'32
				<i>G</i> 3,55 42	8406 Jun 07 02:24	0°II	
superior conj	8405 Jul 21 08:10	5° Ω 21'50	0°00'53		8406 Jun 25 05:40	0°9	
minimum elong	8405 Jul 21 08:08	5° Ω 21'38	0°00'43	morning set	8406 Jun 25 18:35	0°959'18	
•			0 00 73	•			1 25/76 411
behind sun begin	8405 Jul 21 02:31	4°Ω52'07		max. Earth dist.	8406 Jun 29 13:59	8°909'11	1.35476 AU
behind sun end	8405 Jul 21 13:46	5° Ω 51'12					

superior conj	8406 Jul 05 02:31	19° 5 03'31	0°20'54	superior conj	8407 Jun 18 09:51	2° © 10'31	1001/51
	8406 Jul 05 04:17	19°50331		minimum elong	8407 Jun 18 13:40	2°929'03	1°01'23
minimum elong asc. node	8406 Jul 03 04:17 8406 Jul 08 03:07	19 \$12 23 25° \$514'27	0 29 44	asc. node	8407 Jun 25 00:08	2 \$2903 15°\$11'32	1 01 23
asc. node	8406 Jul 10 10:22	23 3 1427 0°Ω		evening rise	8407 Jun 27 00:53	13 3 11 32	
avanina riaa	8406 Jul 10 10:22 8406 Jul 12 22:55	5° Ω 12'29		evening rise		19 © 14 39	
evening rise	8406 Jul 12 22:33 8406 Jul 26 21:05			avanina may al	8407 Jul 02 14:06		19°15'13
		0° M)	20010105	evening max el	8407 Jul 13 17:46		19-15-13
evening max el	8406 Jul 31 02:00	4° m 55'02	20°19'05	retrograde	8407 Jul 22 21:58	21° Ω 00'54	
retrograde	8406 Aug 10 22:37	10° m 17'03		evening set	8407 Jul 24 19:03	20° Ω 50'17	
desc. node	8406 Aug 11 19:42	10° m 15'04		desc. node	8407 Jul 29 16:46	18° Ω 56'15	100 (140
evening set	8406 Aug 12 21:55	10° mp 07'13		inferior conj	8407 Aug 02 07:54	16° Ω 40′20	
inferior conj	8406 Aug 22 01:12	6° Mp 09'30		minimum elong	8407 Aug 02 04:57	16° Ω 45'15	1°05'46
minimum elong	8406 Aug 21 17:02	6° m) 21'27	3°00'35	min. Earth dist.	8407 Aug 05 01:05	14° £ 52′23	0.55966 AU
min. Earth dist.	8406 Aug 23 11:59	5° Mp 18'36	0.54891 AU	morning rise	8407 Aug 10 12:00	11° Ω 58'33	
morning rise	8406 Aug 30 11:17	2°Mp01'57		direct	8407 Aug 15 13:40	10° Ω 59'39	
direct	8406 Sep 03 17:20	1° m 23'01		morning max el	8407 Aug 29 16:55	18° Ω 09'47	25°28'05
morning max el	8406 Sep 17 04:17		23°45'21		8407 Sep 08 13:17	0°Щ	
	8406 Oct 03 01:50	0ಂ ರ		asc. node	8407 Sep 20 23:44	21°Mp15'41	
asc. node	8406 Oct 04 02:47	1° ≏ 54'28			8407 Sep 25 06:04	0∘ ⊽	
morning set	8406 Oct 11 06:34	16° ≏ 16′06		morning set	8407 Sep 25 18:05	1° ≏ 03'49	
	8406 Oct 17 14:53	0°M₊					
				superior conj	8407 Oct 02 14:52	16° ≙ 04'14	1°33'46
superior conj	8406 Oct 18 04:46	1°ML15'13	1°40'16	minimum elong	8407 Oct 02 13:16	15° ≏ 55'25	1°33'40
minimum elong	8406 Oct 18 04:05	1°ML11'32	1°40'19	max. Earth dist.	8407 Oct 03 21:12	18° ≏ 50'58	1.32186 AU
max. Earth dist.	8406 Oct 20 16:00	6°M33'23	1.33132 AU		8407 Oct 09 01:48	0° M.	
evening rise	8406 Oct 25 17:47	17°ML04'10		evening rise	8407 Oct 09 17:02	1°M19'12	
	8406 Nov 01 12:16	0° ∡ ¹			8407 Oct 25 10:39	0° ∡ ¹	
desc. node	8406 Nov 07 18:29	10° ∡ ¹46'12		desc. node	8407 Oct 25 15:32	0° √ 19'05	
	8406 Nov 21 02:34	_{0°} ප		evening max el	8407 Nov 11 02:51	21° 渘 17′00	27°25'34
evening max el	8406 Nov 28 17:21	8° る 24'49	27°25'01	retrograde	8407 Nov 24 22:05	28° ₹ ³32'13	
retrograde	8406 Dec 12 07:33	15° る 44'10		evening set	8407 Dec 02 00:33	26° ≯ ¹08'38	
evening set	8406 Dec 19 06:45	13° る 10'05		min. Earth dist.	8407 Dec 05 16:47	23° ҂ 12'56	0.62270 AU
min. Earth dist.	8406 Dec 23 01:48	9° ප 46'25	0.64139 AU	inferior conj	8407 Dec 08 14:54	20° х 29'34	-3°00'21
inferior conj	8406 Dec 25 13:36	7° る 09'59	-1°50'18	minimum elong	8407 Dec 08 20:37	20° х 16′12	2°58'06
minimum elong	8406 Dec 25 17:02	7°る01'00		morning rise	8407 Dec 15 18:52	15° ∡ °24'38	
asc. node	8406 Dec 31 02:13	2° ට 20'21		asc. node	8407 Dec 17 23:14	15° ₹ '01'40	
morning rise	8407 Jan 01 04:59	1°る47'10		direct	8407 Dec 18 01:23	15° ₹ '01'38	
direct	8407 Jan 03 16:28	1°る16'13		morning max el	8407 Dec 24 20:41	18°× 29'29	17°49'10
morning max el	8407 Jan 10 03:47	4° ප 38'41	17°51'13	morning max or	8408 Jan 02 04:48	0°る	17 17 10
morning max or	8407 Jan 26 21:58	0°≈	17 31 13	morning set	8408 Jan 09 17:19	13° る 07'38	
morning set	8407 Jan 27 00:32	0°≈10'54		morning sec	8408 Jan 19 08:03	0°≈	
desc. node	8407 Feb 03 17:47	13°≈09'05			0100 3411 17 00.03	0 / 0 .	
desc. Hode	0107100 05 17.17	15 70.07 05		superior conj	8408 Jan 20 23:23	2° ≈ 47'17	0°04'44
superior conj	8407 Feb 09 03:16	21° ≈ 58'49	-0°38'31	minimum elong	8408 Jan 20 23:51	2°≈49'16	0°04'49
minimum elong	8407 Feb 08 22:56	21°≈41'14		behind sun begin	8408 Jan 20 15:22	2°≈13'22	0 01 19
minimum ciong	8407 Feb 14 03:32	0° ∀	0 37 10	behind sun end	8408 Jan 21 08:19	3°≈25'05	
max. Earth dist.	8407 Feb 14 08:12	0° ₩ 18'28	1.44854 AU	desc. node	8408 Jan 21 14:45	3°≈52'12	
evening rise	8407 Feb 24 23:44	16° ¥ 53'19	1.11031110	max. Earth dist.	8408 Jan 28 00:27	14°≈26'52	1.43561 AU
evening rise	8407 Mar 05 14:57	0°Υ		evening rise	8408 Feb 04 13:21	26°≈23'46	1.15501710
evening max el	8407 Mar 24 15:06	25°Υ'52'32	20°19'10	evening rise	8408 Feb 06 21:20	0° ∀	
asc. node	8407 Mar 29 01:06	29° Y 27'02	20 17 10		8408 Feb 27 13:17	0° Υ	
ase. Houe	8407 Mar 30 04:45	0°8		evening max el	8408 Mar 06 12:33	9° Υ 31'59	21°29'24
retrograde	8407 Apr 01 12:35	0° 8 28'15		asc. node	8408 Mar 14 22:11	14° Υ 47'16	21 2)24
retrograde	8407 Apr 03 17:58	30°RY		retrograde	8408 Mar 15 10:46	14° Υ 48'40	
ovening set	8407 Apr 05 10:42	28° Υ 59'23		evening set	8408 Mar 19 18:51	13° Υ 04'38	
evening set	-	28 γ 59 23 22° γ 54'13	2010/10	-		6° Υ 48'16	2040100
inferior conj minimum elong	8407 Apr 10 18:31 8407 Apr 10 17:01	22° Y 54 13 22° Y 59'19	3°10'18 3°10'03	inferior conj minimum elong	8408 Mar 25 02:10 8408 Mar 25 00:05	6°Υ55'31	2°48'08 2°47'40
•	-	21° Y 52'37		min. Earth dist.		6° Υ 30'48	0.68293 AU
min. Earth dist.	8407 Apr 11 12:35	16° Y 37'49	0.07727 AU		8408 Mar 25 07:11 8408 Mar 30 05:10	0° Υ 35'10	0.00233 AU
morning rise direct	8407 Apr 15 23:07	16° Y 37'49 14° Y 06'10		morning rise		30° ₹	
direct desc. node	8407 Apr 21 15:12	20° Υ 36'58		direct	8408 Mar 30 22:15	28°) 22'04	
	8407 May 02 17:33		24021120	uncci	8408 Apr 04 07:28	28°π22'04 0°Υ	
morning max el	8407 May 03 01:13	20° Y 56'14	24°31'39		8408 Apr 09 04:39		22001152
	8407 May 10 20:39	0° Β		morning max el	8408 Apr 14 11:03	4°Υ23'14	25 01 52
	8407 May 31 07:41	0° Ⅱ 12° Ⅱ 47/27		desc. node	8408 Apr 18 14:30	8° Y 57'26	
morning set	8407 Jun 07 21:32	12° Ⅱ 47'27	1 27525 411		8408 May 04 02:06	0°8	
max. Earth dist.	8407 Jun 11 12:42	19° Ⅱ 16′01	1.37535 AU	morning set	8408 May 19 00:38	23° 8 27'30	
	8407 Jun 17 06:44	0ං ව		man P. d. P. c	8408 May 22 21:34	0° Ⅱ	1 20777 ***
				max. Earth dist.	8408 May 23 08:57	∪°Щ48′5″/	1.39777 AU

	040034 24 02 06	1.40 T 20145	100001		040034 10 00 40	2001.0000	1055110
superior conj	8408 May 31 02:06	14° Ⅲ 32'45		superior conj	8409 May 12 22:43	26° 8 00'10	
minimum elong	8408 May 31 07:38	14° I I58'11	1°31'49	minimum elong	8409 May 13 04:15	26° 8 24'15	1°57'00
	8408 Jun 08 06:56	0°©			8409 May 15 05:29	0°II	
evening rise	8408 Jun 09 18:13	2° © 48'59		evening rise	8409 May 23 23:09	15° ∏ 45'59	
asc. node	8408 Jun 10 21:09	4° © 57'34		asc. node	8409 May 28 18:10	24° ∏ 27'50	
evening max el	8408 Jun 25 20:23	28°944'16	18°32'18		8409 May 31 22:34	0 \circ \odot	
	8408 Jun 27 06:00	$0^{\circ}\Omega$		evening max el	8409 Jun 09 06:06	11° © 33'10	18°09'39
retrograde	8408 Jul 03 15:29	2° Ω 37'10		retrograde	8409 Jun 16 03:13	15° © 02'04	
evening set	8408 Jul 05 18:10	2° Ω 20'58		evening set	8409 Jun 18 13:35	14° © 36'29	
	8408 Jul 10 14:09	30° ₹ ∽		inferior conj	8409 Jun 25 12:12	9° 5 47'20	1°55'14
inferior conj	8408 Jul 13 11:23	27° © 52'11	0°37'28	minimum elong	8409 Jun 25 15:11	9° 5 40'33	1°54'10
minimum elong	8408 Jul 13 12:44	27° 5 49'33	0°36'49	min. Earth dist.	8409 Jun 28 20:18	6°5947'07	0.59942 AU
desc. node	8408 Jul 15 13:50	26°©13'37		desc. node	8409 Jul 02 10:53	4° © 04'35	
min. Earth dist.	8408 Jul 16 19:19	25° © 17'43	0.57758 AU	morning rise	8409 Jul 02 13:53	3° © 59'59	
morning rise	8408 Jul 21 03:47	22° © 33'29		direct	8409 Jul 09 01:14	2° © 00'31	
direct	8408 Jul 27 00:47	21° © 05'42		morning max el	8409 Jul 23 09:31	9° © 54'46	27°42'11
morning max el	8408 Aug 10 09:55	28° © 43'14	26°51'20		8409 Aug 07 21:54	$0^{\circ}\Omega$	
	8408 Aug 11 16:31	$0^{\circ}\Omega$		morning set	8409 Aug 24 10:01	0° Mp 10'21	
	8408 Sep 01 06:15	0° m			8409 Aug 24 08:02	0° m	
asc. node	8408 Sep 06 20:41	10° m 56'10		asc. node	8409 Aug 24 17:38	0° m 50'08	
morning set	8408 Sep 09 03:48	15° Mp 43'30		max. Earth dist.	8409 Aug 30 16:20	13° Mp 41'10	1.31683 AU
•	8408 Sep 15 16:41	0∘ ⊽					
	1			superior conj	8409 Aug 31 14:01	15° Mp 41'07	1°04'49
superior conj	8408 Sep 16 02:33	0° £ 54'42	1°21'49	minimum elong	8409 Aug 31 11:47	15° m) 28'47	1°04'25
minimum elong	8408 Sep 16 00:24	0° £ 42'50	1°21'32	evening rise	8409 Sep 07 07:54	0° م 29'10	
max. Earth dist.	8408 Sep 16 06:27	1°₽16'21	1.31702 AU		8409 Sep 07 02:27	0∘ಹ	
evening rise	8408 Sep 22 22:28	15° Ω 49'36	1.51,02110		8409 Sep 23 06:53	0°M	
e vennig rise	8408 Sep 30 00:10	0° M		desc. node	8409 Sep 28 09:42	7° M 10'50	
desc. node	8408 Oct 11 12:37	19°ML12'26		evening max el	8409 Oct 05 03:09	14°M43'48	25°47'01
dese. Hode	8408 Oct 19 22:38	0°×7		retrograde	8409 Oct 19 01:28	21°M46'46	23 47 01
evening max el	8408 Oct 23 06:45	3° ₹ 125'24	26°52'40	evening set	8409 Oct 25 06:23	20°M16'24	
retrograde	8408 Nov 06 04:40	10°×734'57	20 32 40	min. Earth dist.	8409 Oct 29 15:44	17°M40'18	0.58137 AU
evening set	8408 Nov 13 02:02	8° ₹ 32'54		inferior conj	8409 Nov 01 17:48	17 M28'42	
•	8408 Nov 16 21:05	5° × 54'55	0.60206 AU		8409 Nov 02 00:09	15°M17'23	
min. Earth dist.		3° х ⁻3433		minimum elong morning rise		13 IIC1723 11°MC07'05	3 04 29
inferior conj	8408 Nov 20 01:25 8408 Nov 20 08:41	3° ₹ 1830 3° ₹ 103'57		Č	8409 Nov 09 20:15 8409 Nov 12 03:55	10°M50'00	
minimum elong		30°RM	4 00 33	direct		14°M55'59	18°43'28
	8408 Nov 24 13:17			morning max el	8409 Nov 20 15:45		18-43-28
morning rise	8408 Nov 27 17:46	28°M34'44		asc. node	8409 Nov 20 17:15	14°M59'36	
direct	8408 Nov 29 22:34	28°M16'19		. ,	8409 Dec 01 02:47	0°×7	
asc. node	8408 Dec 03 20:15	29°M17'15		morning set	8409 Dec 06 22:13	11° ₹ 00'48	
	8408 Dec 05 00:43	0° ∡ 7					
morning max el	8408 Dec 07 09:53	1° ≯ 58'36	18°06'03	superior conj	8409 Dec 15 13:39	27° 🖈 43'13	1°08'54
morning set	8408 Dec 23 02:11	26° х 49′02		minimum elong	8409 Dec 15 17:00	27° ₹ 59'01	1°08'40
	8408 Dec 24 19:03	0° ප		75 d 17 d	8409 Dec 16 18:50	0°る	1.20641.477
				max. Earth dist.	8409 Dec 22 18:34	10°る51'06	1.39641 AU
superior conj	8409 Jan 01 20:18	14°る46'23	0°41'16	desc. node	8409 Dec 25 08:42	15° る 20'43	
minimum elong	8409 Jan 01 23:15	14°る59'35	0°41'00	evening rise	8409 Dec 26 19:11	17° る 47'19	
desc. node	8409 Jan 07 11:43	24°₹37'18			8410 Jan 03 07:08	0°≈	
max. Earth dist.	8409 Jan 09 11:36	27° る 59'40	1.41749 AU		8410 Jan 24 13:08	0° ∀	
	8409 Jan 10 16:27	0° ≈		evening max el	8410 Jan 30 19:35	6°) 59′29	24°07'41
evening rise	8409 Jan 14 17:35	6°≈36'49		retrograde	8410 Feb 10 23:42	13°) € 33'03	
	8409 Jan 30 02:05	0° ∀		evening set	8410 Feb 16 07:12	11° ∺ 20′12	
evening max el	8409 Feb 17 05:25	23°) 13′55	22°47'31	asc. node	8410 Feb 16 16:21	11° ∺ 00'05	
retrograde	8409 Feb 27 06:56	29° ∺ 11'55		min. Earth dist.	8410 Feb 21 00:14	5°) 54'49	0.68163 AU
asc. node	8409 Mar 01 19:16	28°) 40′16		inferior conj	8410 Feb 21 18:49	4°) 51′58	1°36'25
evening set	8409 Mar 04 02:12	27° ∺ 13′02		minimum elong	8410 Feb 21 16:52	4° ∺ 58'37	1°35'47
inferior conj	8409 Mar 09 10:54	20° ∺ 48'47			8410 Feb 25 18:26	30°R≈	
minimum elong	8409 Mar 09 08:39	20° ¥ 56'36	2°15'59	morning rise	8410 Feb 27 02:33	28° ≈ 49'48	
min. Earth dist.	8409 Mar 09 03:52	21° ∺ 13'12	0.68430 AU	direct	8410 Mar 03 01:37	27° ≈ 20'34	
morning rise	8409 Mar 14 14:59	14°) 40′20			8410 Mar 08 22:31	0° ∀	
direct	8409 Mar 19 03:20	12°) 48′56		morning max el	8410 Mar 10 21:04	1°) 46′04	20°18'56
morning max el	8409 Mar 28 00:37	17° ∺ 58'57	21°35'22	desc. node	8410 Mar 23 08:24	17°) 42'29	
desc. node	8409 Apr 05 11:28	28°) €03'36			8410 Mar 31 16:12	0 ° $\mathbf{\Upsilon}$	
	8409 Apr 06 22:08	0 ° $\mathbf{\Upsilon}$		morning set	8410 Apr 08 01:48	11° Y 17'56	
	8409 Apr 27 04:51	9° 8		max. Earth dist.	8410 Apr 17 17:09	26° Y 28'16	1.43747 AU
morning set	8409 Apr 29 00:15	2° 8 51'33			8410 Apr 19 21:40	9° 8	
max. Earth dist.	8409 May 05 09:15	13° 8 11'18	1.41938 AU				

superior conj	8410 Apr 23 19:29	6° 8 23'40	-2°11'00	superior conj	8411 Apr 03 16:17	15° Ƴ 46'19	
minimum elong	8410 Apr 23 21:29	6° 8 31'57	2°11'04	minimum elong	8411 Apr 03 11:24	15° Y 26'54	2°07'13
evening rise	8410 May 06 11:03	27° 8 54'44			8411 Apr 12 12:22	0°8	
,	8410 May 07 15:50	0° П		evening rise	8411 Apr 18 01:34	9° 8 07'31	
asc. node evening max el	8410 May 15 15:13 8410 May 23 19:08	13° Ⅲ 35'55 24° Ⅲ 44'41	18°06'17	asc. node	8411 Apr 30 23:08 8411 May 02 12:18	0° П 2° П 14'49	
retrograde	8410 May 23 19:08 8410 May 30 05:36	24° П 44'41 28° П 05'15	18-001/	evening max el	8411 May 07 08:15	2° П 14'49 8° П 10'49	18°21'29
evening set	8410 Jun 01 23:28	28 H 03 13		retrograde	8411 May 13 18:08	11° Д 37'26	18 21 29
inferior conj	8410 Jun 08 07:03	22° I I18'56	2°45'47	evening set	8411 May 16 19:14	10° Ⅱ 46'32	
minimum elong	8410 Jun 08 09:44	22° I I11'59	2°45'02	inferior conj	8411 May 22 15:51	5° Ⅱ 19'41	3°13'26
min. Earth dist.	8410 Jun 11 05:32	19° Ⅱ 17'17	0.62186 AU	minimum elong	8411 May 22 17:21	5° Ⅱ 15'21	3°13'06
morning rise	8410 Jun 14 18:07	16° Ⅱ 13'32		min. Earth dist.	8411 May 25 00:08	2° П 37'20	0.64232 AU
desc. node	8410 Jun 19 07:57	14° Ⅱ 02'21			8411 May 27 13:02	30°R ∀	
direct	8410 Jun 21 12:04	13° Ⅱ 47'36		morning rise	8411 May 28 14:25	29° 8 04'51	
morning max el	8410 Jul 05 15:05	21° ∏ 49′16	27°55'13	direct	8411 Jun 04 07:23	26° 8 22'42	
	8410 Jul 12 18:34	0°€		desc. node	8411 Jun 06 05:00	26° 8 34'24	
	8410 Aug 01 01:08	$0^{\circ}\Omega$			8411 Jun 13 02:10	Π $^{\circ}0$	
morning set	8410 Aug 08 10:45	14° Ω 18'19		morning max el	8411 Jun 18 00:34	4° Ⅱ 22'19	27°31'33
asc. node	8410 Aug 11 14:36	20° Ω 52'14			8411 Jul 07 08:25	0 \circ \odot	
max. Earth dist.	8410 Aug 13 23:03	25° Ω 54'11	1.32127 AU	morning set	8411 Jul 23 03:31	28° © 00'30	
					8411 Jul 24 03:37	0 $^{\circ}$ Ω	
superior conj	8410 Aug 15 23:28	0° Mp 17′29	0°43'11	max. Earth dist.	8411 Jul 27 22:48	7° Ω 45'14	1.33049 AU
minimum elong	8410 Aug 15 21:39	0° ™ 07'35	0°42'45	asc. node	8411 Jul 29 11:35	10° Ω 58′07	
	8410 Aug 15 20:16	0° ™					
evening rise	8410 Aug 22 19:18	15° Mp 11'32		superior conj	8411 Jul 31 04:56	14° Ω 37'54	0°17'23
	8410 Aug 30 02:50	0∘ ত		minimum elong	8411 Jul 31 04:05	14° Ω 33'22	0°17'04
desc. node	8410 Sep 15 06:48	23° Ω 52'57		evening rise	8411 Aug 07 06:47	29° Ω 50'40	
evening max el	8410 Sep 16 16:27	25° £ 17′20	24°16'51		8411 Aug 07 08:33	0° m)	
	8410 Sep 22 19:43	0°M			8411 Aug 24 08:13	0∘ ⊽	
retrograde	8410 Sep 30 10:13	2°M10'46		evening max el	8411 Aug 29 04:12	5° Ω 29'38	22°37'22
evening set	8410 Oct 05 10:06	1°M15'43		desc. node	8411 Sep 02 03:55	8° £ 50'05	
min. Earth dist.	8410 Oct 08 06:58	30° ₹ Ω	0.56325 AU	retrograde	8411 Sep 11 06:43	12° £ 02'00 11° £ 35'20	
inferior conj	8410 Oct 11 03:17 8410 Oct 13 13:57	28° £ 23'10 26° £ 52'02		evening set min. Earth dist.	8411 Sep 14 18:20 8411 Sep 22 11:34	8° £ 09'31	0.55080 AU
minimum elong	8410 Oct 13 15:13		5°34'46	inferior conj	8411 Sep 22 11:34 8411 Sep 23 15:45	7° £ 29'28	
morning rise	8410 Oct 21 22:26	20° ⊆ 50'04 22° ⊆ 51'36	3 34 40	minimum elong	8411 Sep 23 19:49	7° ⊆ 2928 7° ⊆ 38'24	
direct	8410 Oct 24 14:23	22° £ 32'49		morning rise	8411 Oct 02 02:34	3° Ω 41'24	3 10 20
morning max el	8410 Nov 03 10:47	27° Ω 11'49	19°43'06	direct	8411 Oct 05 06:55	3° Ω 18'17	
	8410 Nov 06 01:47	0°M		morning max el	8411 Oct 16 16:53	8° △ 39'11	21°04'52
asc. node	8410 Nov 07 14:16	1° M 54'17		asc. node	8411 Oct 25 11:17	19° ≏ 45'22	
morning set	8410 Nov 21 01:47	25°M32'59			8411 Oct 31 07:07	0° M	
	8410 Nov 23 06:29	0° ₹		morning set	8411 Nov 05 10:05	10°M16'44	
superior conj	8410 Nov 28 22:27	11° ⊀ 24'18	1°27'33	superior conj	8411 Nov 12 18:15	25°M36'14	1°38'03
minimum elong	8410 Nov 29 01:00	11° 🗷 36'57	1°27'30	minimum elong	8411 Nov 12 19:33	25°M42'54	1°38'08
max. Earth dist.	8410 Dec 05 00:39	23°×706'49	1.37482 AU	minimum ciong	8411 Nov 14 21:50	0° √	1 30 00
evening rise	8410 Dec 08 18:16	29° x 54'48	1.57 102 110	max. Earth dist.	8411 Nov 17 10:13		1.35503 AU
	8410 Dec 08 19:26	0°ප		evening rise	8411 Nov 21 11:34	12° х 50′05	
desc. node	8410 Dec 12 05:43	5° る 58'57		desc. node	8411 Nov 29 02:44	26° ₹ ¹26'55	
	8410 Dec 27 13:45	0° ≈			8411 Dec 01 05:47	ರ°0	
evening max el	8411 Jan 13 08:50	20° ≈ 47'46	25°23'04		8411 Dec 22 14:22	0°≈	
retrograde	8411 Jan 25 12:03	27° ≈ 47'32		evening max el	8411 Dec 26 21:59	4° ≈ 32'47	26°26'33
evening set	8411 Jan 31 08:21	25° ≈ 22'35		retrograde	8412 Jan 08 19:17	11° ≈ 48′12	
asc. node	8411 Feb 03 13:27	22° ≈ 01'19		evening set	8412 Jan 15 03:49	9° ≈ 14'40	
min. Earth dist.	8411 Feb 04 18:04	20° ≈ 31'57	0.67508 AU	min. Earth dist.	8412 Jan 19 07:04	4° ≈ 58'48	0.66475 AU
inferior conj	8411 Feb 06 00:06	18° ≈ 55'02	0°48'00	inferior conj	8412 Jan 21 00:45	2° ≈ 52'59	-0°08'12
minimum elong	8411 Feb 05 22:57	18° ≈ 58'45	0°47'40	minimum elong	8412 Jan 21 00:58	2° ≈ 52'19	0°07'57
morning rise	8411 Feb 11 13:55	13° ≈ 00′53		transit middle	8412 Jan 21 00:58	2° ≈ 52'19	0°07'57
direct	8411 Feb 15 00:49	11° ≈ 52'19		transit begin	8412 Jan 20 22:27	2° ≈ 59'56	
morning max el	8411 Feb 22 01:34	15°≈45'06	19°16'38	transit end	8412 Jan 21 03:29	2° ≈ 44'43	
	8411 Mar 05 01:11	0°) (asc. node	8412 Jan 21 10:33	2° ≈ 23'23	
greatest brilliancy	8411 Mar 07 03:35	3°) €07'04	-0.7m		8412 Jan 23 12:45	30°₹⋜	
desc. node	8411 Mar 10 05:21	7°) (45'32		morning rise	8412 Jan 26 22:56	27°る09'03	
morning set	8411 Mar 18 01:50	19°) 48′56		direct	8412 Jan 29 23:10	26° る 18'09	10020112
E d E :	8411 Mar 24 15:26	0° Υ	1 44004 433	morning max el	8412 Feb 05 12:57	29° る 50'49	18°30'13
max. Earth dist.	8411 Mar 31 07:56	10° Y 28′24	1.44984 AU	daga mada	8412 Feb 05 16:39	0°≈ 28°≈05'29	
				desc. node	8412 Feb 25 02:17	∠o ≈ 03 29	

morning set	8412 Feb 25 22:48	29° ≈ 26'48		morning set	8413 Feb 06 01:17	10° ≈ 32'41	
8-11	8412 Feb 26 07:11	0° ∀		desc. node	8413 Feb 10 23:11	18° ≈ 37'24	
					8413 Feb 18 00:09	0° ∀	
superior conj	8412 Mar 12 22:11	24°) ₹35′01	-1°43'32				
minimum elong	8412 Mar 12 12:40	23° ∺ 57'46		superior conj	8413 Feb 20 07:35	3°) 40'41	
max. Earth dist.	8412 Mar 13 02:31		1.45512 AU	minimum elong	8413 Feb 20 00:13		1°03'09
	8412 Mar 16 09:12	0°Υ		max. Earth dist.	8413 Feb 23 21:54	9° ∺ 21′23	1.45297 AU
evening rise	8412 Mar 28 16:26	19° Y 22'25		evening rise	8413 Mar 08 11:26	28° ¥ 53′10	
	8412 Apr 04 09:25	0° 8			8413 Mar 09 04:46	0°Υ	
greatest brilliancy	8412 Apr 06 20:37	3° 8 52'30	-0.8m	greatest brilliancy	8413 Mar 22 08:04	19° Y 58'37	-0.7m
asc. node	8412 Apr 18 09:23	20° 8 15'00	10054125		8413 Mar 29 11:05	0°8	10044112
evening max el	8412 Apr 19 18:49	21° 8 44'54	18°54'35	evening max el	8413 Apr 03 00:54	5° 8 22'28	19°44'12
retrograde	8412 Apr 26 12:53	25° 8 30'24		asc. node	8413 Apr 05 06:30	7° 8 24'25	
evening set	8412 Apr 29 21:27 8412 May 05 10:45	24° 8 25'17 18° 8 42'10	3°23'03	retrograde	8413 Apr 10 10:41	9° と 37'34 8° と 17'39	
inferior conj minimum elong	8412 May 05 10:45	18° 8 41'40		evening set inferior conj	8413 Apr 14 03:29 8413 Apr 19 12:34	2° 8 20'06	3°18'25
min. Earth dist.	8412 May 07 03:44	16° 8 33'22	0.65922 AU	minimum elong	8413 Apr 19 11:35	_	3°18'15
morning rise	8412 May 10 23:51	12° 8 23'56	0.03)22 AU	min. Earth dist.	8413 Apr 20 14:45	0° 8 52'45	0.67192 AU
direct	8412 May 17 10:01	9° 8 37'25		mm. Larm dist.	8413 Apr 21 06:52	30°RΥ	0.07172710
desc. node	8412 May 23 02:01	11° 8 21'43		morning rise	8413 Apr 24 19:22	26° Y ′02'13	
morning max el	8412 May 30 11:14	17° 8 22'38	26°37'18	direct	8413 Apr 30 18:49	23° Y 22'21	
5 5	8412 Jun 09 24:00	0°II		desc. node	8413 May 09 23:00	27° Y 52'33	
	8412 Jun 29 06:30	0ಂತಾ			8413 May 12 06:01	0°8	
morning set	8412 Jul 05 09:07	11°908'23		morning max el	8413 May 12 20:56	0° 8 37'17	25°21'14
max. Earth dist.	8412 Jul 09 12:22	19° 5 09'10	1.34453 AU	•	8413 Jun 03 22:46	$\Pi^{\circ}0$	
				morning set	8413 Jun 17 23:15	23° Ⅱ 29'34	
superior conj	8412 Jul 14 04:08	28° © 36'11	-0°11'54	max. Earth dist.	8413 Jun 21 14:59	0°9512'57	1.36307 AU
minimum elong	8412 Jul 14 04:48	28° © 39'38	0°11'56		8413 Jun 21 12:14	0 \circ \odot	
behind sun begin	8412 Jul 14 00:53	28°519'19					
behind sun end	8412 Jul 14 08:44	28° © 59'58		superior conj	8413 Jun 27 18:12	12° 5 04'14	-0°43'25
	8412 Jul 14 20:18	$0^{\circ}\Omega$		minimum elong	8413 Jun 27 20:50	12° © 17'18	0°43'07
asc. node	8412 Jul 15 08:34	1° Ω 03'55		asc. node	8413 Jul 02 05:33	21° © 05'09	
evening rise	8412 Jul 21 16:23	14° Ω 20′50		evening rise	8413 Jul 05 21:50	28° © 34'55	
	8412 Jul 29 15:36	0° m/y	2100454		8413 Jul 06 14:39	0° Ω	10040196
evening max el	8412 Aug 09 23:35	15° m 57'49	21°04'54	evening max el	8413 Jul 23 07:57		19°49'26
desc. node	8412 Aug 19 01:02	21° m/30'41			8413 Jul 26 21:09	0° m/	
retrograde	8412 Aug 21 19:38	21° m/49'41		retrograde	8413 Aug 02 11:11	2° Mp 05'52	
evening set	8412 Aug 24 02:42	21° Mp 37'19	4904126	evening set	8413 Aug 04 07:51	1° Mp 56'29	
inferior conj minimum elong	8412 Sep 02 08:27 8412 Sep 01 22:53	17° Mp 40'22 17° Mp 53'52		desc. node	8413 Aug 05 22:09 8413 Aug 09 16:21	1° Mp 34′23 30° R.Ω	
min. Earth dist.	8412 Sep 01 22:33 8412 Sep 02 20:29	17° Mp 23'21	0.54679 AU	inferior conj	8413 Aug 13 06:17	27° Ω 55'15	-2°14'07
morning rise	8412 Sep 10 19:30	13° Mp 45'39	0.54077110	minimum elong	8413 Aug 13 00:17	28° Ω 04'40	
direct	8412 Sep 14 15:00	13° Mp 14'27		min. Earth dist.	8413 Aug 15 07:53	26° Ω 39'13	0.55244 AU
morning max el	8412 Sep 27 11:33	19° m 22'15	22°44'12	morning rise	8413 Aug 21 14:29	23° Ω 34'03	0.33211110
	8412 Oct 06 05:46	0∘ ಹ		direct	8413 Aug 26 04:40	22° Ω 47'35	
asc. node	8412 Oct 11 08:16	8° ≏ 19'44		morning max el	8413 Sep 09 00:10	29° Ω 38'07	24°30'12
morning set	8412 Oct 19 21:01	25° ≏ 06'07		C	8413 Sep 09 09:20	0° m)	
	8412 Oct 22 04:12	0°M₊		asc. node	8413 Sep 28 05:12	27° m 26'01	
					8413 Sep 29 12:56	0∘ रु	
superior conj	8412 Oct 26 21:40	10°ML09'06	1°41'19	morning set	8413 Oct 04 08:46	9° ჲ 55'23	
minimum elong	8412 Oct 26 21:39	10°ML09'03	1°41'25				
max. Earth dist.	8412 Oct 30 03:10	16°M57'20	1.33874 AU	superior conj	8413 Oct 11 05:58	24° ≏ 54'02	1°38'12
evening rise	8412 Nov 03 19:16	26°M23'59		minimum elong	8413 Oct 11 04:51	24° ≏ 47'58	1°38'12
	8412 Nov 05 15:52	0° ∡ ¹		max. Earth dist.	8413 Oct 13 04:17	29° ≙ 05'41	1.32675 AU
desc. node	8412 Nov 14 23:47	16° ∡ ³39'21			8413 Oct 13 14:21	0°M	
	8412 Nov 23 14:26	0°る		evening rise	8413 Oct 18 13:44	10°M26'26	
evening max el	8412 Dec 08 10:56	18°る06'33	2/~10'53		8413 Oct 28 23:18	0° ∡ 7	
retrograde	8412 Dec 21 20:45	25° る 27'29		desc. node	8413 Nov 01 20:51	6° ₹ 29'09	
evening set	8412 Dec 28 15:31	22°る51'16	0.65094 411	avaning may al	8413 Nov 19 14:31	0°궁 1°중18'10	2702012
min. Earth dist.	8413 Jan 01 13:09	19°る09'11 16°る41'17		evening max el	8413 Nov 20 22:30	1°る18'10 8°る36'37	21 29 12
inferior conj minimum elong	8413 Jan 03 18:29 8413 Jan 03 20:37	16°る41'17		retrograde evening set	8413 Dec 04 15:40 8413 Dec 11 16:48	8° ろ 36'37	
asc. node	8413 Jan 07 07:39	10 333 22 13°る04'05	1 10 10	min. Earth dist.	8413 Dec 15 10:18		0.63370 AU
morning rise	8413 Jan 10 03:07	13 3 0403		inferior conj	8413 Dec 18 02:41	2 03444 0°る13'50	
direct	8413 Jan 12 18:31	10°る33'00		minimum elong	8413 Dec 18 07:06	0° ろ 02'46	
morning max el	8413 Jan 19 04:48	13° る 56'38	18°00'28		8413 Dec 18 08:13	30°R. ₹	= -/
	0413 Jan 17 04:40						
	8413 Jan 30 15:26	0° ≈		morning rise	8413 Dec 24 23:20	24° ₹ ¹58'05	

asc. node	8413 Dec 25 04:41	24° ₹ ′53′18		morning max el	8414 Dec 17 13:54	11° ⋌ ³37′23	17°53'54
direct	8413 Dec 27 08:15	24° ∡ ³31′03			8414 Dec 29 19:55	0°₹	
morning max el	8414 Jan 02 22:12	27° ∡ ¹55'07	17°48'03	morning set	8415 Jan 02 06:26	6° ප 13'19	
•	8414 Jan 04 19:45	0°⋜					
morning set	8414 Jan 19 06:03	22°る55'15		superior conj	8415 Jan 12 19:58	25° る 05'35	0°21'15
morning out	8414 Jan 23 08:28	0°≈		minimum elong	8415 Jan 12 21:47	25° ♂ 13'29	0°21'09
desc. node	8414 Jan 28 20:07	9°≈17'28		desc. node	8415 Jan 15 17:04	0°≈01'36	0 21 0)
desc. Hode	0414 Jan 20 20.07	9 ≈1728		desc. node			
	04147 01 10 55	100 46100	0010100	F 4 F	8415 Jan 15 16:41	0°≈	1 400 45 477
superior conj	8414 Jan 31 12:57	13° ≈ 46′20		max. Earth dist.	8415 Jan 20 06:30	7° ≈ 37'56	1.42845 AU
minimum elong	8414 Jan 31 10:52	13° ≈ 37'44		evening rise	8415 Jan 26 17:08	17°≈58'56	
max. Earth dist.	8414 Feb 06 15:53	23° ≈ 41'43	1.44375 AU		8415 Feb 03 12:42	0° ∀	
	8414 Feb 10 15:31	0°)			8415 Feb 25 08:44	0 ° $\mathbf{\Upsilon}$	
evening rise	8414 Feb 15 22:33	8° ₩ 13'05		evening max el	8415 Feb 27 21:05	2° Y 42'32	22°02'02
	8414 Mar 02 11:19	$0^{\circ}\mathbf{\Upsilon}$		retrograde	8415 Mar 09 06:32	8° Ƴ 16′25	
evening max el	8414 Mar 17 01:38	19° Ƴ 01'57	20°47'53	asc. node	8415 Mar 10 00:42	8° Ƴ 13'31	
asc. node	8414 Mar 23 03:36	23° Y 29'09		evening set	8415 Mar 13 19:20	6° Y 25′56	
retrograde	8414 Mar 25 09:11	23° Y '54'31		inferior conj	8415 Mar 19 03:03	0° Υ 06'01	2°35'51
evening set	8414 Mar 29 11:21	22°Υ19'22		minimum elong	8415 Mar 19 00:51	0° Υ 13'43	2°35'17
inferior conj		16° Υ 09'22	3°02'08	Č		0° Υ 06'45	0.68407 AU
,	8414 Apr 03 18:44			min. Earth dist.	8415 Mar 19 02:50		0.68407 AU
minimum elong	8414 Apr 03 16:56	16° Y 15'33	3°01'47		8415 Mar 19 04:47	30° ₹	
min. Earth dist.	8414 Apr 04 07:12	15° Y 26′22	0.68019 AU	morning rise	8415 Mar 24 06:12	23°) 54′57	
morning rise	8414 Apr 08 22:17	9° Ƴ 54'11		direct	8415 Mar 29 02:38	21° ¥ 50'47	
direct	8414 Apr 14 08:43	7° Ƴ 29'31		morning max el	8415 Apr 07 16:47	27° ∺ 29'11	22°24'14
morning max el	8414 Apr 25 05:53	13° Ƴ 59'35	23°53'36		8415 Apr 10 01:23	0 ° Υ	
desc. node	8414 Apr 26 19:55	15° Ƴ 39'16		desc. node	8415 Apr 13 16:52	4° Y 20′26	
	8414 May 08 05:36	0° ႘			8415 May 01 20:32	0°8	
	8414 May 27 20:01	0°II		morning set	8415 May 11 08:07	14° 8 57'04	
morning set	8414 May 30 16:41	4° Ⅱ 50'17		max. Earth dist.	8415 May 16 09:06	23° 8 18'56	1.40727 AU
max. Earth dist.	8414 Jun 03 11:23		1.38480 AU	max. Lartii dist.	8415 May 20 06:34	0° I	1.40/2/ AC
max. Earth dist.	0414 Juli 03 11.23	11 1123 34	1.36460 AU		6413 May 20 00.34	υд	
	0414 7 10 10 40	240T52141	1015110		0415 M 24 04 00	60 T 5212.5	1042155
superior conj	8414 Jun 10 19:40	24° Ⅱ 53'41		superior conj	8415 May 24 04:08	6° Ⅱ 53'35	
minimum elong	8414 Jun 11 00:19	25° Ⅱ 15'44	1°14'37	minimum elong	8415 May 24 09:59	7° Ⅱ 19'51	1°43'26
	8414 Jun 13 11:46	0ංම		evening rise	8415 Jun 03 09:02	25° Ⅱ 45'22	
asc. node	8414 Jun 19 02:33	10° © 58'05		asc. node	8415 Jun 05 23:36	0° © 37'57	
evening rise	8414 Jun 19 20:30	12° 5 26'04			8415 Jun 05 15:26	0ಂ ತಾ	
	8414 Jun 29 09:49	$0^{\circ}\Omega$		evening max el	8415 Jun 19 10:56	21° 5 29'07	18°20'15
evening max el	8414 Jul 06 04:51	8° £ 58′33	18°54'28	retrograde	8415 Jun 26 19:08	25° © 09'53	
retrograde	8414 Jul 14 17:25	13° Ω 11'49		evening set	8415 Jun 29 01:08	24° © 49'59	
evening set	8414 Jul 16 16:35	12° Ω 59'14		inferior conj	8415 Jul 06 10:03	20°512'09	1°13'56
desc. node	8414 Jul 23 19:13	9° Ω 27'34		minimum elong	8415 Jul 06 12:24	20°507'15	
inferior conj	8414 Jul 24 21:17	8° Ω 41'51	0°10'50	min. Earth dist.	8415 Jul 09 19:24	17°9524'11	0.58659 AU
		8° Ω 43'19					0.38039 AU
minimum elong	8414 Jul 24 20:27		0°19'40	desc. node	8415 Jul 10 16:16	16°544'04	
min. Earth dist.	8414 Jul 27 22:51	6° £ 32′13	0.56667 AU	morning rise	8415 Jul 13 20:23	14°5540'11	
morning rise	8414 Aug 01 21:02	3° Ω 44'13		direct	8415 Jul 20 00:17	12° © 59'09	
direct	8414 Aug 07 07:34	2° Ω 33'39		morning max el	8415 Aug 03 09:34	20°5944'07	27°17'32
morning max el	8414 Aug 21 13:52	9° Ω 56'14	26°06'37		8415 Aug 11 09:46	$0 {\circ} \Omega$	
	8414 Sep 05 19:58	0° m)			8415 Aug 29 15:16	0° m	
asc. node	8414 Sep 15 02:08	16° m 55'54		asc. node	8415 Sep 01 23:05	6° Mp 42′59	
morning set	8414 Sep 18 19:42	24° m 39'53		morning set	8415 Sep 03 04:13	9° ™ 15'11	
	8414 Sep 21 07:03	0∘ ⊽					
				superior conj	8415 Sep 10 04:48	24° Mp 33'46	1°15'13
superior conj	8414 Sep 25 16:57	9° £ 44'06	1°29'20	minimum elong	8415 Sep 10 02:34	24° Mp 21'21	1°14'52
minimum elong	8414 Sep 25 15:05	9° £ 33'42	1°29'10	max. Earth dist.	8415 Sep 09 21:56	23° m 55'40	1.31641 AU
max. Earth dist.	8414 Sep 26 11:40	11° ≏ 27'36			8415 Sep 12 15:37	0∘ ʊ	
	•	24° £ 48'57	1.51751 AO	ovening rise	•	9° ≏ 24'31	
evening rise	8414 Oct 02 15:56			evening rise	8415 Sep 16 23:23		
	8414 Oct 05 04:27	0°M,			8415 Sep 27 12:31	0°M	
desc. node	8414 Oct 19 17:57	25°M46'41		desc. node	8415 Oct 06 15:02	14°M19'20	
	8414 Oct 22 14:54	0° ∡ ¹		evening max el	8415 Oct 16 07:14	25°M42'03	26°28'25
evening max el	8414 Nov 03 06:14	13° ∡ 53'53	27°15'48		8415 Oct 21 17:09	0°⊀	
retrograde	8414 Nov 17 02:48	21° ∡ 105′58		retrograde	8415 Oct 30 05:09	2° ∡ ¹48'14	
evening set	8414 Nov 24 04:12	18° ∡ ¹50'35		evening set	8415 Nov 05 21:21	0° ≯ 58'31	
min. Earth dist.	8414 Nov 27 20:52	16° ∡ 03'45	0.61407 AU		8415 Nov 07 13:13	30°₽ M J	
inferior conj	8414 Nov 30 22:10	13° ∡ 721'54		min. Earth dist.	8415 Nov 09 20:41		0.59320 AU
minimum elong	8414 Dec 01 04:43	13° ∡ 07'24		inferior conj	8415 Nov 13 01:26	25°M56'07	
morning rise	8414 Dec 08 07:29	8° × ¹ 25'06	· · · · -	minimum elong	8415 Nov 13 08:44	25°M42'01	
direct	8414 Dec 10 12:51	8° ₹ 04'23		morning rise	8415 Nov 20 22:29	21°M21'30	. 55 15
				•			
asc. node	8414 Dec 12 01:43	8° ∡ 14'37		direct	8415 Nov 23 04:04	21°M03'54	

	0415 Nam 20 22.42	229M 00105			9416 N 12 02-14	7° M 35'48	10006105
asc. node	8415 Nov 28 22:43	23°M09'05	10010121	morning max el	8416 Nov 13 02:14		19-06-05
morning max el	8415 Dec 01 00:28	24° M .54'40 0° ⊀	18°19'21	asc. node	8416 Nov 14 19:43	9° M 23'56 0° ∡ 7	
marning gat	8415 Dec 05 06:24	0° x ¹ 20° x ¹09'45		marning got	8416 Nov 27 13:05 8416 Nov 29 20:14	0° × ° 4° × ⁷ 30'55	
morning set	8415 Dec 16 20:38 8415 Dec 22 00:57	20 x ・0943		morning set	8410 NOV 29 20.14	4 X·3033	
	8415 Dec 22 00:57	0.0		gunariar agni	8416 Dec 08 02:51	20° ₹ 49'06	1°17'51
gunariar aani	8415 Dec 26 02:19	7° る 31'43	0°54'06	superior conj	8416 Dec 08 02:51	20 x ·49 06 21° x 04'05	1°17'31 1°17'40
superior conj minimum elong	8415 Dec 26 02:19	7° る 46'54		minimum elong	8416 Dec 12 23:57	21 x ·0403	1 1/40
max. Earth dist.	8416 Jan 02 16:13	7 340 34 20° る 55'44	1.40881 AU	max. Earth dist.	8416 Dec 12 23:57 8416 Dec 14 21:58	3° る 29'06	1.38714 AU
desc. node	8416 Jan 02 14:05	20°る46'35	1.40881 AU	evening rise	8416 Dec 14 21:38 8416 Dec 18 17:08	10°る10'55	1.38/14 AU
evening rise	8416 Jan 07 06:11	20 3 4033		desc. node	8416 Dec 19 11:06	10 3 10 33	
evening rise	8416 Jan 08 02:45	0°≈		desc. node	8416 Dec 30 22:35	0°≈	
	8416 Jan 28 02:43	0° ₩			8417 Jan 22 21:09	0° ∀	
evening max el	8416 Feb 10 12:30	16° ¥ 25'35	23°21'36	evening max el	8417 Jan 23 01:55	0°) 11'48	24°40'38
retrograde	8416 Feb 21 01:23	22°)(39'28	23 21 30	retrograde	8417 Feb 03 16:35	6°¥58'32	24 40 30
asc. node	8416 Feb 24 21:47	21°) 26'41		evening set	8417 Feb 09 05:30	4°) (40'03	
evening set	8416 Feb 26 01:53	20°)(34'11		asc. node	8417 Feb 10 18:53	3°) 10′02	
inferior conj	8416 Mar 02 11:39	14°) (07'41	2°00'34	ase. Hode	8417 Feb 13 09:53	30°R≈	
minimum elong	8416 Mar 02 09:28	14° X 15'12	1°59'55	min. Earth dist.	8417 Feb 13 19:11	29°≈29'25	0.67930 AU
min. Earth dist.	8416 Mar 01 23:35	14°) (13°12	0.68372 AU	inferior conj	8417 Feb 14 18:43	28°≈11'12	1°16'51
morning rise	8416 Mar 07 17:01	8° ₩ 01'56	0.00372710	minimum elong	8417 Feb 14 17:02	28°≈16'48	1°16'19
direct	8416 Mar 11 23:34	6° ¥ 20'13		morning rise	8417 Feb 20 04:45	22°≈12'14	1 1017
morning max el	8416 Mar 20 09:08		21°01'19	direct	8417 Feb 23 22:22	20°≈52'18	
desc. node	8416 Mar 30 13:49	23°) (41'24	21 011)	morning max el	8417 Mar 03 09:07	25°≈02'41	19°50'31
dese. Hode	8416 Apr 04 01:04	0°Υ		morning max ci	8417 Mar 07 17:39	0° ∀	17 30 31
morning set	8416 Apr 19 20:49	23° Υ 51'27		greatest brilliancy	8417 Mar 16 08:20	11°) 54'19	-0.6m
morning set	8416 Apr 23 18:03	0° 8		desc. node	8417 Mar 17 10:46	13°) (341)	-0.0111
max. Earth dist.	8416 Apr 27 12:49	6° 8 05'58	1.42766 AU	desc. node	8417 Mar 28 08:35	0° Υ	
max. Lartii dist.	041071pi 27 12.49	0 000 00	1.42700710	morning set	8417 Mar 29 18:37	2° Υ 10'50	
superior conj	8416 May 04 14:54	17° 8 53'30	-2°04'51	max. Earth dist.	8417 Apr 09 23:30		1.44348 AU
minimum elong	8416 May 04 19:28	18° 8 12'53		max. Larm dist.	0417 Apr 07 25.50	17 41 42	1.44546 AC
minimum clong	8416 May 11 14:25	0°II	2 04 43	superior conj	8417 Apr 15 01:05	27° Ƴ 49'33	-2°11'53
evening rise	8416 May 16 07:18	8° Ⅱ 22'48		minimum elong	8417 Apr 15 00:23	27° Υ 46'40	
asc. node	8416 May 22 20:39	19° I I59'18		minimum ciong	8417 Apr 16 09:11	0°8	2 11 30
asc. Houc	8416 May 29 04:44	0°9		evening rise	8417 Apr 28 10:38	20° 8 08'37	
evening max el	8416 Jun 01 22:23	4°927'44	18°05'54	evening rise	8417 May 04 05:49	0°II	
retrograde	8416 Jun 08 13:50	7°951'42	10 03 34	asc. node	8417 May 09 17:44	8° I I56'05	
evening set	8416 Jun 11 03:19	7° 9 21'23		evening max el	8417 May 16 11:48	17° Ⅱ 46'15	18°10'33
inferior conj	8416 Jun 17 19:01	2°S23'29	2°10'48	retrograde	8417 May 22 21:01	21° I I07'56	18 10 33
minimum elong	8416 Jun 17 22:02	2°916'12		evening set	8417 May 25 17:52	20° I I25'02	
minimum clong	8416 Jun 20 06:29	30°RII	2 10 30	inferior conj	8417 May 31 20:20	15° I I08'35	2°50'58
min. Earth dist.	8416 Jun 20 23:47	29° Ⅱ 19'46	0.60896 AU	minimum elong	8417 May 31 20:20	15° I I02'30	
morning rise	8416 Jun 24 14:16	26° I I26'55	0.00890 AU	min. Earth dist.	8417 Jun 03 13:13	13 H 02 30	0.63085 AU
desc. node	8416 Jun 26 13:20	25° II 20'28		morning rise	8417 Jun 07 01:42	8° I I58'01	0.03083 AU
direct	8416 Jul 01 05:09	24° II 15'22		desc. node	8417 Jun 13 10:23	6° П 23'58	
direct	8416 Jul 13 02:41	0°9		direct	8417 Jun 13 20:04	6° Ⅱ 23'27	
morning max el	8416 Jul 15 12:08	2°914'21	27°52'38	morning max el	8417 Jun 27 19:47	14° Ⅱ 26'37	27°49'23
morning max ci	8416 Aug 04 19:23	0°Ω	27 32 30	morning max ci	8417 Jul 10 10:00	0°95	21 47 23
morning set	8416 Aug 17 08:23	23° Ω 34'48			8417 Jul 28 09:39	$0 {\circ} \Omega$	
asc. node	8416 Aug 18 20:03	26° Ω 40'51		morning set	8417 Aug 01 06:04	7° Ω 32'34	
use. Houe	8416 Aug 20 09:32	0° m		asc. node	8417 Aug 05 17:02	16° Ω 45'00	
max. Earth dist.	8416 Aug 23 07:02		1.31808 AU	max. Earth dist.	8417 Aug 05 17:02		1.32451 AU
max. Latur dist.	0410 Aug 25 07.02	0 11/1/07	1.51000 AC	max. Larm dist.	041/ Aug 00 11.03	10 662037	1.32431 AO
superior conj	8416 Aug 24 15:37	9° m 16'16	0°56'13	superior conj	8417 Aug 08 23:37	23° Ω 46'20	0°32'44
minimum elong	8416 Aug 24 13:30	9° Mp 04'37	0°55'46	minimum elong	8417 Aug 08 22:08	23° £ 38'22	0°32'19
evening rise	8416 Aug 31 09:52	24° Mp 05'36	0 33 40	minimum clong	8417 Aug 11 20:14	0° m	0 32 17
evening fise	8416 Sep 03 05:13	ე° 亞		evening rise	8417 Aug 11 20:14 8417 Aug 15 21:30	0 mg/ 8°Mg/46'41	
	8416 Sep 21 00:57	0° M		Cvennig 1150	8417 Aug 13 21:30 8417 Aug 26 19:40	0∘ ⊽	
desc. node	8416 Sep 22 12:10	1°ML48'27		evening max el	8417 Sep 08 11:35	0 <u>≈</u> 16° Ω 58'39	23°34'4/
evening max el	8416 Sep 27 00:02	6°M38'42	25°10'51	desc. node	8417 Sep 08 11:33 8417 Sep 09 09:16	10 = 38 39 17° £ 49'31	43 JT TT
retrograde	8416 Oct 10 21:16	13°M39'07	23 1031	retrograde	8417 Sep 09 09:16 8417 Sep 22 01:06	23° £ 4931	
•				•	•	23° £ 43′39 23° £ 04′23	
evening set min. Earth dist.	8416 Oct 16 15:28	12°M23'30 9°M42'50	0.57318 AU	evening set min. Earth dist.	8417 Sep 26 09:23 8417 Oct 02 21:39	23° 2 04′23 19° 2 59'14	0.55704 AU
	8416 Oct 21 11:41	7°M46'20					
inferior conj	8416 Oct 24 09:18			inferior conj	8417 Oct 04 21:00	18° Ω 48'48	
minimum elong	8416 Oct 24 14:02	7°M38'22	3 2138	minimum elong	8417 Oct 04 19:02	18° £ 51'44	2 22 28
morning rise	8416 Nov 01 14:56	3°M34'39		morning rise	8417 Oct 13 06:48	14° £ 55'06	
direct	8416 Nov 04 01:25	3°M17'17		direct	8417 Oct 16 03:22	14° £ 34'57	

morning max el	8417 Oct 26 15:54	19° ≏ 31'22	20015115	minimum elong	0410 0 14 00-45	29° m 23'08	4950150
asc. node	8417 Nov 01 16:43	19 ≗ 31 22 26° £ 43'58	20 13 13	U	8418 Sep 14 08:45	25° m 22'39	4 30 38
asc. node	8417 Nov 01 10.43 8417 Nov 03 20:21	20 ==43 38 0°M		morning rise direct	8418 Sep 23 04:22 8418 Sep 26 15:02	23 III 22 39 24° III 56'29	
morning sat	8417 Nov 03 20:21 8417 Nov 14 02:04	19°M08'09		direct	8418 Oct 07 23:58	0° ∵	
morning set	8417 Nov 14 02:04 8417 Nov 19 08:51	0° √		mamina may al	8418 Oct 07 25:38 8418 Oct 08 16:31	0° ⊆ 37'33	21945129
	641/ NOV 19 U6.31	0 x .		morning max el asc. node	8418 Oct 19 13:42	0 ≥ 3733	21 43 28
	0417 No 21 16.46	40.744110	1920157	asc. node			
superior conj	8417 Nov 21 16:46	4° × 744'12	1°32'56		8418 Oct 27 14:22	0°M	
minimum elong	8417 Nov 21 18:49	4° × 754'31	1°32'56	morning set	8418 Oct 29 11:44	3°M54'52	
max. Earth dist.	8417 Nov 27 04:30	15° 🗷 31'14	1.36608 AU		041037 05 16 00	10000 05150	1040115
evening rise	8417 Dec 01 00:25	22° ₹ 39'43		superior conj	8418 Nov 05 16:09	19°M05'50	1°40'15
	8417 Dec 05 03:37	0°る		minimum elong	8418 Nov 05 16:53	19°M09'39	1°40'22
desc. node	8417 Dec 06 08:07	2°る02'20		max. Earth dist.	8418 Nov 09 17:04	27°M24'56	1.34762 AU
	8417 Dec 24 17:28	0°≈	25052101		8418 Nov 11 00:01	0° ⊀ ⁷	
evening max el	8418 Jan 05 15:03	13°≈59'13	25°52'01	evening rise	8418 Nov 14 00:20	5° 🖈 52'52	
retrograde	8418 Jan 18 02:59	21°≈07'27		desc. node	8418 Nov 23 05:08	22° ₹ 24'36	
evening set	8418 Jan 24 04:27	18°≈38'28	0.67110.411	·	8418 Nov 27 21:09	0°る	26040116
min. Earth dist.	8418 Jan 28 11:23	14°≈02'22	0.67110 AU	evening max el	8418 Dec 19 04:29	27° ප් 41'51	26°48'16
asc. node	8418 Jan 28 15:59	13°≈48'00			8418 Dec 21 17:43	0° ≈	
inferior conj	8418 Jan 29 22:17	12°≈12'30	0°25'04	retrograde	8419 Jan 01 07:45	5°≈00'06	
minimum elong	8418 Jan 29 21:39	12°≈14'31	0°24'58	evening set	8419 Jan 07 20:54	2°≈24'57	
morning rise	8418 Feb 04 15:23	6°≈22'10			8419 Jan 10 10:51	30°Rる	
direct	8418 Feb 07 21:27	5° ≈ 21'34		min. Earth dist.	8419 Jan 11 21:47	28° る 23'25	
morning max el	8418 Feb 14 16:42	9° ≈ 04'41	18°54'46	inferior conj	8419 Jan 13 20:19	26° る 07'35	
	8418 Mar 01 22:13	0° ∀		minimum elong	8419 Jan 13 21:17	26° る 04'46	0°33'35
desc. node	8418 Mar 04 07:41	3°) 42′02		asc. node	8419 Jan 15 13:03	24° る 11'24	
morning set	8418 Mar 09 01:21	11° ∺ 03'52		morning rise	8419 Jan 19 22:41	20° る 28'25	
	8418 Mar 21 04:33	0° Υ		direct	8419 Jan 22 18:59	19° る 43'46	
max. Earth dist.	8418 Mar 23 15:50	3° Y 52'20	1.45299 AU	morning max el	8419 Jan 29 06:16	23° る 11'13	18°15'26
					8419 Feb 03 19:21	0° ≈	
superior conj	8418 Mar 25 13:48	6° Y 52'52		morning set	8419 Feb 17 10:53	21° ≈ 20′00	
minimum elong	8418 Mar 25 06:13	6° Y 23′05	1°59'11	desc. node	8419 Feb 19 04:36	24° ≈ 07'49	
	8418 Apr 09 01:20	0°8			8419 Feb 22 20:31	0° ∀	
evening rise	8418 Apr 09 15:03	0° 8 55'35					
asc. node	8418 Apr 26 14:50	27° 8 19'42		superior conj	8419 Mar 04 18:45	15°) 42′17	
	8418 Apr 28 19:27	0°II		minimum elong	8419 Mar 04 09:23	15° ∺ 05'30	
evening max el	8418 Apr 30 00:09	1° Ⅱ 16′29	18°33'30	max. Earth dist.	8419 Mar 06 11:29		1.45521 AU
retrograde	8418 May 06 12:28	4° ∏ 49'24			8419 Mar 13 22:13	0° Υ	
evening set	8418 May 09 16:42	3° Ⅱ 52'33		evening rise	8419 Mar 20 20:34	10° Y 49'07	0.7
	8418 May 13 23:30	30°R8	2010125	greatest brilliancy	8419 Apr 01 04:39	28° Y 25'06	-0./m
inferior conj	8418 May 15 09:49	28° 8 18'51		1	8419 Apr 02 05:40	0°8	
minimum elong	8418 May 15 10:45	28° 8 16'04		asc. node	8419 Apr 13 11:55	14° 8 59'51	10012111
min. Earth dist.	8418 May 17 11:43	25° 8 49'16	0.65005 AU	evening max el	8419 Apr 13 09:05	14° 8 52'44	19°13'44
morning rise	8418 May 21 03:59	22° 8 02'09		retrograde	8419 Apr 20 08:46	18° 8 49'09	
direct	8418 May 27 18:51	19° 8 16'22		evening set	8419 Apr 23 20:50	17° 8 37'36	2022127
desc. node	8418 May 31 07:24	19° 8 56'46	25011125	inferior conj	8419 Apr 29 08:01		3°22'37
morning max el	8418 Jun 10 05:48	27° 8 11'31	27°11'37	minimum elong	8419 Apr 29 07:39	11° 8 49'18	3°22'29
	8418 Jun 12 21:02	0° I I		min. Earth dist.	8419 Apr 30 18:32	9° 8 56'35	0.66528 AU
. ,	8418 Jul 04 02:15	0.02		morning rise	8419 May 04 18:05	5° 8 29'58	
morning set	8418 Jul 15 18:27	21°500'29		direct	8419 May 11 00:08	2° 8 45'11	
P. J. P.	8418 Jul 20 06:48	0°N	1.00506.133	desc. node	8419 May 18 04:23	5° 8 31'44	26006154
max. Earth dist.	8418 Jul 20 06:23	29° © 57'53	1.33586 AU	morning max el	8419 May 23 16:02	10° 8 18'26	26°06'54
asc. node	8418 Jul 23 14:02	6° Ω 50'55			8419 Jun 08 06:03	0°∏	
	0410 1 1 24 02 41	70 0 5 712 0	0005101		8419 Jun 26 15:57	0°©	
superior conj	8418 Jul 24 02:41	7° Ω 57'39	0°05'21	morning set	8419 Jun 28 17:58	3°549'12	1.05001.477
minimum elong	8418 Jul 24 02:25	7° Ω 56'12	0°05'08	max. Earth dist.	8419 Jul 02 15:12	11°©11'15	1.35201 AU
behind sun begin	8418 Jul 23 21:06	7° Ω 28'11			0410 1 1 07 22 22	210642127	0925106
behind sun end	8418 Jul 24 07:44	8° Ω 24'17		superior conj	8419 Jul 07 22:22	21°5643'37	
evening rise	8418 Jul 31 08:22	23° Ω 21'58		minimum elong	8419 Jul 07 23:49	21°951'03	0°24'59
	8418 Aug 03 13:14	0°M)	21056220	asc. node	8419 Jul 10 11:01	26°\$54'59	
evening max el	8418 Aug 21 01:41	27° m 13'23	21~36'30		8419 Jul 11 22:42	0°Ω 7°Ω45149	
	8418 Aug 24 06:59	0° 亞		evening rise	8419 Jul 15 16:29	7° Ω 45'48	
desc. node	8418 Aug 27 06:22	1° £ 51'47			8419 Jul 27 18:01	0° m/y	20020117
retrograde	8418 Sep 02 16:57	3° £ 30′03		evening max el	8419 Aug 03 02:14	7° Mp 55'52	20~30'17
evening set	8418 Sep 05 14:29	3° Ω 11'18		retrograde	8419 Aug 14 05:03	13° Mp 25'53	
t pater	8418 Sep 13 06:14	30°₹∭0	0.54502 133	desc. node	8419 Aug 14 03:28	13° Mp 25'52	
min. Earth dist.	8418 Sep 14 05:57		0.54793 AU	evening set	8419 Aug 16 05:50	13°Mp15'38	2020115
inferior conj	8418 Sep 14 17:19	29° Mp 11'09	-4 JZ4Z	inferior conj	8419 Aug 25 10:13	9° Mp 18′28	-5 2013

minimum elong	8419 Aug 25 01:29	9° m 31'05	3°17'25	minimum elong	8420 Aug 04 10:37	19° Ω 51'00	1°22'54
min. Earth dist.	8419 Aug 26 15:18	8° Mp 36'25	0.54803 AU	min. Earth dist.	8420 Aug 07 04:00	19 δ (51 00 18° Ω 04'56	0.55753 AU
morning rise	8419 Sep 02 20:41	5° Mp 14'59	0.34603 AU	morning rise	8420 Aug 12 19:44	15° Ω 08'29	0.33733 AU
direct	8419 Sep 06 23:54	4° Mp 38'20		direct	8420 Aug 17 18:20	13 δ 008 29 14° Ω 13'08	
	•	-	22920125		•		25912125
morning max el	8419 Sep 20 07:32	11° Mp 04'34	23 29 33	morning max el	8420 Aug 31 20:04	21° Ω 18'40 0° ™	25-15-55
1-	8419 Oct 04 08:40	0° 亞		4-	8420 Sep 08 09:44	-	
asc. node	8419 Oct 06 10:39	3° Ω 43'20		asc. node	8420 Sep 22 07:36	23° Mp 00'41	
morning set	8419 Oct 13 23:12	18° Ω 44'31		. ,	8420 Sep 25 18:29	0∘ ⊽	
	8419 Oct 19 04:28	0°M₊		morning set	8420 Sep 27 10:49	3° ჲ 32'33	
superior conj	8419 Oct 20 21:54	3°M44'09	1°40'43	superior conj	8420 Oct 04 07:36	18° ≏ 32'05	1°35'06
minimum elong	8419 Oct 20 21:34 8419 Oct 20 21:23	3°M41'23	1°40'49	minimum elong	8420 Oct 04 07:30 8420 Oct 04 06:07	18° £ 23'56	1°35'03
max. Earth dist.	8419 Oct 20 21:23 8419 Oct 23 13:51	9°M26'04	1.33305 AU	max. Earth dist.		18 2 23 30 21° 2 40'38	1.32297 AU
			1.55505 AU	max. Earm dist.	8420 Oct 05 17:59	0°M	1.32297 AU
evening rise	8419 Oct 28 12:58	19°M39'24			8420 Oct 09 14:47	3°M51'02	
daga mada	8419 Nov 02 22:14	0°⊀ 12°.₹2017		evening rise	8420 Oct 11 11:03		
desc. node	8419 Nov 10 02:11	12° メ 28'17 0°る		desc. node	8420 Oct 25 15:45	0° ⊀ ⁷ 2° ∗ ₹0.512.7	
	8419 Nov 21 23:11		27922117		8420 Oct 26 23:16	2°×705'37	27927122
evening max el	8419 Dec 01 17:08	11° る 07'46	27°22'16	evening max el	8420 Nov 13 03:08	24° ₹ 04'27	21-21-32
retrograde	8419 Dec 15 06:14	18° る 27'39		. 1	8420 Nov 21 08:05	0°る	
evening set	8419 Dec 22 04:29	15°₹52'38	0.64205.441	retrograde	8420 Nov 26 21:58	1°る20'53	
min. Earth dist.	8419 Dec 26 00:08		0.64395 AU		8420 Dec 02 04:47	30°₹ ⋌ ¹	
inferior conj	8419 Dec 28 10:20	9° る 49'52		evening set	8420 Dec 04 00:20	28° 🖈 55'02	0.62560.444
minimum elong	8419 Dec 28 13:24	9° る 41'41	1°38′24	min. Earth dist.	8420 Dec 07 16:42	25° ₹ 55'38	0.62560 AU
asc. node	8420 Jan 02 10:06	5°る16'17		inferior conj	8420 Dec 10 13:28	23° 🖈 12'21	
morning rise	8420 Jan 03 23:55	4°る24'50		minimum elong	8420 Dec 10 18:52	22° х 59'31	2°47'32
direct	8420 Jan 06 12:22	3°る52'25	17052105	morning rise	8420 Dec 17 15:33	18° ₹ 04'38	
morning max el	8420 Jan 12 23:09	7° る 14'46	17°53'05	asc. node	8420 Dec 19 07:08	17° 🗷 42'40	
	8420 Jan 28 06:21	0° ≈		direct	8420 Dec 19 22:33	17° √ 40'45	17040110
morning set	8420 Jan 30 01:19	3°≈01'02		morning max el	8420 Dec 26 16:16	21° × 07'22	17°48'19
desc. node	8420 Feb 06 01:31	14° ≈ 43'36			8421 Jan 02 09:38	0°る	
				morning set	8421 Jan 11 15:09	15° පි 48'56	
superior conj	8420 Feb 12 11:12	25°≈09'33			8421 Jan 19 17:47	0°≈	
minimum elong	8420 Feb 12 06:02		0°44'29	desc. node	8421 Jan 22 22:27	5° ≈ 25'39	
F 4 F 4	8420 Feb 15 11:53	0°) (51115	1 44004 ATT		0421 1 22 02 25	5046122	0001122
max. Earth dist.	8420 Feb 17 07:07	2°) 51'15	1.44994 AU	superior conj	8421 Jan 23 03:25	5°≈46'32	
evening rise	8420 Feb 28 10:26	20°) 10'49		minimum elong	8421 Jan 23 03:17	5°≈45'56	0°01'21
	8420 Mar 05 20:57	0°Υ	0.6	behind sun begin	8421 Jan 22 18:18	5°≈08'12	
greatest brilliancy	8420 Mar 14 07:07	12° Υ 33'41	-0.6m	behind sun end	8421 Jan 23 12:15	6°≈23'36	1 42505 411
evening max el	8420 Mar 26 12:55	28° Y 30'56	20°09'40	max. Earth dist.	8421 Jan 29 23:40		1.43787 AU
,	8420 Mar 28 02:21	0° 8		evening rise	8421 Feb 06 22:51	29° ≈ 36'55	
asc. node	8420 Mar 30 09:00	1° 8 43'31			8421 Feb 07 04:49	0°) €	
retrograde	8420 Apr 03 07:13	3° 8 01'12			8421 Feb 27 13:45	0°Υ 12° 00 10107	21010122
evening set	8420 Apr 07 03:55	1° 8 34'37		evening max el	8421 Mar 09 11:09	12° Υ 10'07	21°18'23
	8420 Apr 08 21:45	30°RΥ	2012140	asc. node	8421 Mar 17 06:05	17° Υ 15'48	
inferior conj	8420 Apr 12 11:58	25° Y 31'15		retrograde	8421 Mar 18 05:34	17° Y 20'41	
minimum elong	8420 Apr 12 10:36	25° Y 35'54	3°12'34	evening set	8421 Mar 22 12:02	15° Ƴ 39'00	2052100
min. Earth dist.	8420 Apr 13 08:05	24°Υ23'00	0.67602 AU	inferior conj	8421 Mar 27 19:19	9° Υ 24'10	
morning rise	8420 Apr 17 17:03	19° Y 14′22		minimum elong	8421 Mar 27 17:18	9° Ƴ 31'11	2°51'42
direct	0420 4 22 11 02	1 (000) 1010		' F (1 1')		000000104	0.00004.411
	8420 Apr 23 11:03	16° Υ 40'28		min. Earth dist.	8421 Mar 28 02:15	9° Υ '00'04	0.68234 AU
desc. node	8420 May 04 01:21	22° Y 37'50	24044146	morning rise	8421 Mar 28 02:15 8421 Apr 01 22:21	3° Y 10'22	0.68234 AU
morning max el	8420 May 04 01:21 8420 May 05 01:30	22° Y 37'50 23° Y 37'31	24°44'46	morning rise direct	8421 Mar 28 02:15 8421 Apr 01 22:21 8421 Apr 07 02:45	3° Υ 10'22 0° Υ 54'07	
	8420 May 04 01:21 8420 May 05 01:30 8420 May 10 17:26	22° Y 37'50 23° Y 37'31 0° 8	24°44'46	morning rise direct morning max el	8421 Mar 28 02:15 8421 Apr 01 22:21 8421 Apr 07 02:45 8421 Apr 17 11:00	3°Υ10'22 0°Υ54'07 7°Υ03'09	
morning max el	8420 May 04 01:21 8420 May 05 01:30 8420 May 10 17:26 8420 May 31 15:15	22° Y 37'50 23° Y 37'31 0° 8 0° I I	24°44'46	morning rise direct	8421 Mar 28 02:15 8421 Apr 01 22:21 8421 Apr 07 02:45 8421 Apr 17 11:00 8421 Apr 20 22:17	3°Y10'22 0°Y54'07 7°Y03'09 10°Y49'52	
morning max el	8420 May 04 01:21 8420 May 05 01:30 8420 May 10 17:26 8420 May 31 15:15 8420 Jun 10 00:01	22°Y37'50 23°Y37'31 0°8 0°II 15°II46'41		morning rise direct morning max el desc. node	8421 Mar 28 02:15 8421 Apr 01 22:21 8421 Apr 07 02:45 8421 Apr 17 11:00 8421 Apr 20 22:17 8421 May 05 06:55	3°Y10'22 0°Y54'07 7°Y03'09 10°Y49'52 0°℧	
morning max el	8420 May 04 01:21 8420 May 05 01:30 8420 May 10 17:26 8420 May 31 15:15 8420 Jun 10 00:01 8420 Jun 13 14:53	22°Y37'50 23°Y37'31 0°B 0°I 15°I46'41 22°I16'58	24°44'46 1.37208 AU	morning rise direct morning max el	8421 Mar 28 02:15 8421 Apr 01 22:21 8421 Apr 07 02:45 8421 Apr 17 11:00 8421 Apr 20 22:17 8421 May 05 06:55 8421 May 22 06:59	3°Y10'22 0°Y54'07 7°Y03'09 10°Y49'52 0°℧ 26°℧37'32	
morning max el	8420 May 04 01:21 8420 May 05 01:30 8420 May 10 17:26 8420 May 31 15:15 8420 Jun 10 00:01	22°Y37'50 23°Y37'31 0°8 0°II 15°II46'41		morning rise direct morning max el desc. node morning set	8421 Mar 28 02:15 8421 Apr 01 22:21 8421 Apr 07 02:45 8421 Apr 17 11:00 8421 Apr 20 22:17 8421 May 05 06:55 8421 May 22 06:59 8421 May 24 06:55	3°Y10'22 0°Y54'07 7°Y03'09 10°Y49'52 0°႘ 26°႘37'32 0°Ⅱ	23°15'12
morning max el morning set max. Earth dist.	8420 May 04 01:21 8420 May 05 01:30 8420 May 10 17:26 8420 May 31 15:15 8420 Jun 10 00:01 8420 Jun 13 14:53 8420 Jun 17 18:01	22°Y37'50 23°Y37'31 0°8 0°II 15°II46'41 22°II16'58 0°©	1.37208 AU	morning rise direct morning max el desc. node	8421 Mar 28 02:15 8421 Apr 01 22:21 8421 Apr 07 02:45 8421 Apr 17 11:00 8421 Apr 20 22:17 8421 May 05 06:55 8421 May 22 06:59	3°Y10'22 0°Y54'07 7°Y03'09 10°Y49'52 0°℧ 26°℧37'32	
morning max el morning set max. Earth dist.	8420 May 04 01:21 8420 May 05 01:30 8420 May 10 17:26 8420 May 31 15:15 8420 Jun 10 00:01 8420 Jun 13 14:53 8420 Jun 17 18:01 8420 Jun 20 07:34	22°Y37'50 23°Y37'31 0°B 0°I 15°I46'41 22°I16'58 0°S 4°S56'28	1.37208 AU -0°57'02	morning rise direct morning max el desc. node morning set max. Earth dist.	8421 Mar 28 02:15 8421 Apr 01 22:21 8421 Apr 07 02:45 8421 Apr 17 11:00 8421 Apr 20 22:17 8421 May 05 06:55 8421 May 22 06:59 8421 May 24 06:55 8421 May 26 10:45	3°Υ10'22 0°Υ54'07 7°Υ03'09 10°Υ49'52 0°႘ 26°႘37'32 0°Ⅱ 3°Ⅱ42'48	23°15'12 1.39440 AU
morning max el morning set max. Earth dist. superior conj minimum elong	8420 May 04 01:21 8420 May 05 01:30 8420 May 10 17:26 8420 May 31 15:15 8420 Jun 10 00:01 8420 Jun 13 14:53 8420 Jun 17 18:01 8420 Jun 20 07:34 8420 Jun 20 11:05	22°Y37'50 23°Y37'31 0°B 0°I 15°I46'41 22°I16'58 0°© 4°©56'28 5°©13'38	1.37208 AU -0°57'02	morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	8421 Mar 28 02:15 8421 Apr 01 22:21 8421 Apr 07 02:45 8421 Apr 17 11:00 8421 Apr 20 22:17 8421 May 05 06:55 8421 May 22 06:59 8421 May 24 06:55 8421 May 26 10:45 8421 Jun 03 02:20	3°Y10'22 0°Y54'07 7°Y03'09 10°Y49'52 0°₩ 26°₩37'32 0°Ⅲ 3°Ⅲ42'48	23°15'12 1.39440 AU -1°27'59
morning max el morning set max. Earth dist. superior conj minimum elong asc. node	8420 May 04 01:21 8420 May 05 01:30 8420 May 10 17:26 8420 May 31 15:15 8420 Jun 10 00:01 8420 Jun 13 14:53 8420 Jun 17 18:01 8420 Jun 20 07:34 8420 Jun 20 11:05 8420 Jun 26 08:01	22°Y37'50 23°Y37'31 0°B 0°II 15°II46'41 22°II16'58 0°© 4°©56'28 5°©13'38 16°©53'23	1.37208 AU -0°57'02	morning rise direct morning max el desc. node morning set max. Earth dist.	8421 Mar 28 02:15 8421 Apr 01 22:21 8421 Apr 07 02:45 8421 Apr 17 11:00 8421 Apr 20 22:17 8421 May 05 06:55 8421 May 22 06:59 8421 May 24 06:55 8421 May 26 10:45 8421 Jun 03 02:20 8421 Jun 03 07:41	3°Y10'22 0°Y54'07 7°Y03'09 10°Y49'52 0°℧ 26°℧37'32 0°Ⅲ 3°Ⅲ42'48 17°Ⅲ25'50 17°Ⅲ50'37	23°15'12 1.39440 AU -1°27'59
morning max el morning set max. Earth dist. superior conj minimum elong	8420 May 04 01:21 8420 May 05 01:30 8420 May 10 17:26 8420 May 31 15:15 8420 Jun 10 00:01 8420 Jun 13 14:53 8420 Jun 17 18:01 8420 Jun 20 07:34 8420 Jun 20 07:34 8420 Jun 20 11:05 8420 Jun 26 08:01 8420 Jun 28 19:27	22°Y37'50 23°Y37'31 0°B 0°II 15°II46'41 22°II16'58 0°© 4°©56'28 5°©13'38 16°©53'23 21°©51'34	1.37208 AU -0°57'02	morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	8421 Mar 28 02:15 8421 Apr 01 22:21 8421 Apr 07 02:45 8421 Apr 17 11:00 8421 Apr 20 22:17 8421 May 05 06:55 8421 May 22 06:59 8421 May 24 06:55 8421 May 26 10:45 8421 Jun 03 02:20 8421 Jun 03 07:41 8421 Jun 09 17:45	3°Y10'22 0°Y54'07 7°Y03'09 10°Y49'52 0°8 26°8'37'32 0°II 3°II42'48 17°II25'50 17°II50'37 0°©	23°15'12 1.39440 AU -1°27'59
morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise	8420 May 04 01:21 8420 May 05 01:30 8420 May 10 17:26 8420 May 31 15:15 8420 Jun 10 00:01 8420 Jun 13 14:53 8420 Jun 17 18:01 8420 Jun 20 07:34 8420 Jun 20 07:34 8420 Jun 20 11:05 8420 Jun 26 08:01 8420 Jun 28 19:27 8420 Jul 02 22:50	22°Y37'50 23°Y37'31 0°B 0°II 15°II46'41 22°II16'58 0°© 4°©56'28 5°©13'38 16°©53'23 21°©51'34 0°A	1.37208 AU -0°57'02 0°56'35	morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	8421 Mar 28 02:15 8421 Apr 01 22:21 8421 Apr 07 02:45 8421 Apr 17 11:00 8421 Apr 20 22:17 8421 May 05 06:55 8421 May 22 06:59 8421 May 24 06:55 8421 May 26 10:45 8421 Jun 03 02:20 8421 Jun 03 07:41 8421 Jun 09 17:45 8421 Jun 12 14:18	3°Y10'22 0°Y54'07 7°Y03'09 10°Y49'52 0°8 26°8'37'32 0°II 3°II42'48 17°II25'50 17°II50'37 0°\$ 5°\$30'16	23°15'12 1.39440 AU -1°27'59
morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise evening max el	8420 May 04 01:21 8420 May 05 01:30 8420 May 10 17:26 8420 May 31 15:15 8420 Jun 10 00:01 8420 Jun 13 14:53 8420 Jun 17 18:01 8420 Jun 20 07:34 8420 Jun 20 11:05 8420 Jun 20 08:01 8420 Jun 28 19:27 8420 Jul 02 22:50 8420 Jul 15 16:09	22°Y37'50 23°Y37'31 0°8 0°11 15°1146'41 22°1116'58 0°5 4°556'28 5°513'38 16°553'23 21°551'34 0°10 19°1023'06	1.37208 AU -0°57'02	morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	8421 Mar 28 02:15 8421 Apr 01 22:21 8421 Apr 07 02:45 8421 Apr 17 11:00 8421 Apr 20 22:17 8421 May 05 06:55 8421 May 22 06:59 8421 May 24 06:55 8421 May 26 10:45 8421 Jun 03 02:20 8421 Jun 03 07:41 8421 Jun 09 17:45 8421 Jun 12 14:18 8421 Jun 13 05:02	3°Y10'22 0°Y54'07 7°Y03'09 10°Y49'52 0°8 26°8'37'32 0°II 3°II42'48 17°II25'50 17°II50'37 0°© 5°©30'16 6°©41'12	23°15'12 1.39440 AU -1°27'59
morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise evening max el retrograde	8420 May 04 01:21 8420 May 05 01:30 8420 May 10 17:26 8420 May 31 15:15 8420 Jun 10 00:01 8420 Jun 13 14:53 8420 Jun 17 18:01 8420 Jun 20 07:34 8420 Jun 20 11:05 8420 Jun 26 08:01 8420 Jun 28 19:27 8420 Jul 02 22:50 8420 Jul 15 16:09 8420 Jul 25 02:14	22°Y37'50 23°Y37'31 0°8 0°11 15°1146'41 22°1116'58 0°5 4°556'28 5°513'38 16°553'23 21°551'34 0°10 19°123'06 24°102'25	1.37208 AU -0°57'02 0°56'35	morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	8421 Mar 28 02:15 8421 Apr 01 22:21 8421 Apr 07 02:45 8421 Apr 17 11:00 8421 Apr 20 22:17 8421 May 05 06:55 8421 May 22 06:59 8421 May 24 06:55 8421 May 26 10:45 8421 Jun 03 02:20 8421 Jun 03 07:41 8421 Jun 09 17:45 8421 Jun 12 14:18 8421 Jun 13 05:02 8421 Jun 27 06:33	3°Y10'22 0°Y54'07 7°Y03'09 10°Y49'52 0°B 26°B37'32 0°II 3°II42'48 17°II25'50 17°II50'37 0°S 5°S30'16 6°S41'12 0°Ω	23°15'12 1.39440 AU -1°27'59 1°27'26
morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise evening max el retrograde evening set	8420 May 04 01:21 8420 May 05 01:30 8420 May 10 17:26 8420 May 31 15:15 8420 Jun 10 00:01 8420 Jun 13 14:53 8420 Jun 17 18:01 8420 Jun 20 07:34 8420 Jun 20 11:05 8420 Jun 26 08:01 8420 Jun 28 19:27 8420 Jul 02 22:50 8420 Jul 15 16:09 8420 Jul 25 02:14 8420 Jul 26 22:51	22°Y37'50 23°Y37'31 0°8 0°11 15°1146'41 22°1116'58 0°5 4°556'28 5°51'38 16°553'23 21°551'34 0°1 19°123'06 24°102'25 23°152'19	1.37208 AU -0°57'02 0°56'35	morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el	8421 Mar 28 02:15 8421 Apr 01 22:21 8421 Apr 07 02:45 8421 Apr 17 11:00 8421 Apr 20 22:17 8421 May 05 06:55 8421 May 22 06:59 8421 May 24 06:55 8421 May 26 10:45 8421 Jun 03 02:20 8421 Jun 03 07:41 8421 Jun 09 17:45 8421 Jun 12 14:18 8421 Jun 13 05:02 8421 Jun 27 06:33 8421 Jun 28 17:27	3°Y10'22 0°Y54'07 7°Y03'09 10°Y49'52 0°B 26°B37'32 0°II 3°II42'48 17°II25'50 17°II50'37 0°S 5°S30'16 6°S41'12 0°Ω 1°Ω33'00	23°15'12 1.39440 AU -1°27'59 1°27'26
morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise evening max el retrograde	8420 May 04 01:21 8420 May 05 01:30 8420 May 10 17:26 8420 May 31 15:15 8420 Jun 10 00:01 8420 Jun 13 14:53 8420 Jun 17 18:01 8420 Jun 20 07:34 8420 Jun 20 11:05 8420 Jun 26 08:01 8420 Jun 28 19:27 8420 Jul 02 22:50 8420 Jul 15 16:09 8420 Jul 25 02:14	22°Y37'50 23°Y37'31 0°8 0°11 15°1146'41 22°1116'58 0°5 4°556'28 5°513'38 16°553'23 21°551'34 0°10 19°123'06 24°102'25	1.37208 AU -0°57'02 0°56'35	morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	8421 Mar 28 02:15 8421 Apr 01 22:21 8421 Apr 07 02:45 8421 Apr 17 11:00 8421 Apr 20 22:17 8421 May 05 06:55 8421 May 22 06:59 8421 May 24 06:55 8421 May 26 10:45 8421 Jun 03 02:20 8421 Jun 03 07:41 8421 Jun 09 17:45 8421 Jun 12 14:18 8421 Jun 13 05:02 8421 Jun 27 06:33	3°Y10'22 0°Y54'07 7°Y03'09 10°Y49'52 0°B 26°B37'32 0°II 3°II42'48 17°II25'50 17°II50'37 0°S 5°S30'16 6°S41'12 0°Ω	23°15'12 1.39440 AU -1°27'59 1°27'26

inferior conj	8421 Jul 16 14:37	0° Ω 49'54	0°23'13	evening set	8422 Jun 21 11:12	17° © 24'34	
minimum elong	8421 Jul 16 15:29	0°Ω48'15	0°22'43	inferior conj	8422 Jun 28 12:23	12° © 38'19	1°45'15
desc. node	8421 Jul 17 21:40	29° 9 50'36	0 22 43	minimum elong	8422 Jun 28 15:16	12° 9 31'54	1°44'10
dese. Hode	8421 Jul 17 16:45	30°R95		min. Earth dist.	8422 Jul 01 21:10	9° © 40'33	0.59610 AU
min. Earth dist.	8421 Jul 19 21:28	28° © 21'11	0.57461 AU	desc. node	8422 Jul 04 18:43	7° © 28'35	0.57010110
morning rise	8421 Jul 24 09:02	25°936'25	0.57401710	morning rise	8422 Jul 05 16:21	6°954'43	
direct	8421 Jul 30 03:30	24°5013'08		direct	8422 Jul 12 02:04	4°959'53	
direct	8421 Aug 11 13:23	0°Ω		morning max el	8422 Jul 26 10:36	12° © 51'47	27°36'58
morning max el	8421 Aug 13 12:06	1° Ω 47'19	26°40'38	morning max er	8422 Aug 09 00:31	0°Ω	27 3030
morning max cr	8421 Sep 02 14:46	0° mp	20 40 30		8422 Aug 25 20:30	0° m/y	
asc. node	8421 Sep 09 04:34	12° mp 38'24		morning set	8422 Aug 27 03:48	2° m)42'19	
morning set	8421 Sep 11 20:55	18° Mp 13'24		asc. node	8422 Aug 27 01:33	2° m/30'31	
morning set	8421 Sep 17 26:39	0° ட		max. Earth dist.	8422 Sep 02 12:55	16° Mp 30'40	1.31658 AU
	0.21 sep 17 00.57	• –		max. Butti dist.	0.122.5cp 02 12.55	10 1950 10	1.51050110
superior conj	8421 Sep 18 19:11	3° ჲ 22'33	1°23'58	superior conj	8422 Sep 03 06:49	18° m 09'46	1°07'44
minimum elong	8421 Sep 18 17:06	3° ₽ 11'00	1°23'43	minimum elong	8422 Sep 03 04:34	17° m 57'20	1°07'19
max. Earth dist.	8421 Sep 19 02:48	4° £ 04'52	1.31748 AU	g	8422 Sep 08 15:41	0∘ ʊ	1 0, 1,
evening rise	8421 Sep 25 15:45	18° ₽ 19'29	1.517 10110	evening rise	8422 Sep 10 00:45	2° £ 58'05	
e vennig rise	8421 Oct 01 10:23	0°M		evening rise	8422 Sep 24 09:24	0°M	
desc. node	8421 Oct 13 20:24	21°M05'39		desc. node	8422 Sep 30 17:31	9°ML13'33	
dese. Hode	8421 Oct 20 11:32	0° x ⁷		evening max el	8422 Oct 08 05:52	17°M46'28	25°58'40
evening max el	8421 Oct 26 08:09	6° ₹ 120'10	26°59'45	retrograde	8422 Oct 22 04:07	24°M50'01	23 36 40
retrograde	8421 Nov 09 05:57	13° ₹ 30'29	20 39 43	evening set	8422 Oct 28 12:23	23°M14'31	
•	8421 Nov 16 04:34	13 x 30 29		min. Earth dist.		20°M39'20	0.58436 AU
evening set		•	0.60515.411	inferior conj	8422 Nov 01 18:42 8422 Nov 04 21:47	18°M23'11	
min. Earth dist.	8421 Nov 19 22:44	8° ≯ 44'48	0.60515 AU				
inferior conj	8421 Nov 23 02:27	6° ₹ 06'43		minimum elong	8422 Nov 05 04:30	18°M 10'56	4°57'04
minimum elong	8421 Nov 23 09:35		3°56'40	morning rise	8422 Nov 12 22:56	13°M58'04	
morning rise	8421 Nov 30 17:01	1° √ 19'11		direct	8422 Nov 15 05:55	13°M40'56	
direct	8421 Dec 02 21:47	1° × 700'19		asc. node	8422 Nov 23 01:10	17°M13'56	10026122
asc. node	8421 Dec 06 04:08	1° ₹ 43'54		morning max el	8422 Nov 23 13:27	17°M42'43	18°36'32
morning max el	8421 Dec 10 06:16	4° ₹ 40'07	18°02'17		8422 Dec 02 10:05	0° ∡ 7	
morning set	8421 Dec 25 22:02	29° ₹ 24'47		morning set	8422 Dec 09 16:42	13° ∡ ³32'53	
	8421 Dec 26 05:37	0°ප			0422 D 10 11 22	00=204140	1005117
	0422 I 04 20.52	17° る 35'37	0927117	superior conj	8422 Dec 18 11:32	0°る24'40 0°る40'31	1°05'17
superior conj	8422 Jan 04 20:53	17° る 33'37	0°36'16	minimum elong	8422 Dec 18 14:56	0°る4031	1°05'01
minimum elong	8422 Jan 04 23:37	1/304/43 26° る 10'37	0°36'02	Double diet	8422 Dec 18 06:16	0°る 13° る 39'41	1 200 <i>(5</i> ATT
desc. node	8422 Jan 09 19:27			max. Earth dist.	8422 Dec 25 19:24		1.39965 AU
P 4 P	8422 Jan 12 01:50	0° ≈	1 10011 177	desc. node	8422 Dec 27 16:27	16°る54'23	
max. Earth dist.	8422 Jan 12 11:40		1.42041 AU	evening rise	8422 Dec 29 22:43	20° ප් 44'12	
evening rise	8422 Jan 18 00:23	9°≈42'34			8423 Jan 04 14:57	0° ≈	
	8422 Jan 31 07:02	0°) (8423 Jan 25 10:34	0°) (2 7 101	
evening max el	8422 Feb 20 04:43	25°) € 52'02	22°35'38	evening max el	8423 Feb 02 19:13	9°) 37′01	23°55'51
	8422 Feb 25 02:30	0°Υ •••••••		retrograde	8423 Feb 13 19:23	16°) €05'31	
retrograde	8422 Mar 02 02:06	1° Y 43′50		evening set	8423 Feb 19 01:05	13°) ₹54'35	
asc. node	8422 Mar 04 03:11	1° Y 22'47		asc. node	8423 Feb 19 00:17	13° ¥ 56′17	
evening set	8422 Mar 06 19:37	29°) (47'12		min. Earth dist.	8423 Feb 23 19:17	8° ∺ 24'11	0.68231 AU
	8422 Mar 06 13:19	30° ₹		inferior conj	8423 Feb 24 12:11		1°43'02
inferior conj	8422 Mar 12 04:01			minimum elong	8423 Feb 24 10:09	7°) €33'42	1°42'25
minimum elong	8422 Mar 12 01:46		2°21'22	morning rise	8423 Mar 01 19:13	1° ∺ 23'41	
min. Earth dist.	8422 Mar 11 22:46	23°) (42'17	0.68437 AU		8423 Mar 04 13:51	30°R≈	
morning rise	8422 Mar 17 07:46	17° ∺ 14'47		direct	8423 Mar 05 20:14	29° ≈ 51'11	
direct	8422 Mar 21 22:15	15° 米 19′55			8423 Mar 07 03:27	0° ∀	
morning max el	8422 Mar 30 23:44	20°) 37′07	21°47'45	morning max el	8423 Mar 13 19:03	4°) 22′23	20°29'32
desc. node	8422 Apr 07 19:14	29°) 49′52		desc. node	8423 Mar 25 16:10	19° ∺ 24'09	
	8422 Apr 07 22:20	$0^{\circ}\Upsilon$			8423 Apr 01 22:09	0 ° Υ	
	8422 Apr 28 12:24	0°8		morning set	8423 Apr 11 14:37	14° Ƴ 44'31	
morning set	8422 May 02 10:41	6° 8 12'24		max. Earth dist.	8423 Apr 20 17:14	29° Ƴ 07'25	1.43514 AU
max. Earth dist.	8422 May 08 10:14	15° 8 57'16	1.41638 AU		8423 Apr 21 06:17	0°8	
superior conj	8422 May 16 02:13	29° 8 02'06		superior conj	8423 Apr 27 02:43	9° 8 35'19	
minimum elong	8422 May 16 07:56	29° 8 27'11	1°53'45	minimum elong	8423 Apr 27 05:32	9° 8 47'01	2°09'57
	8422 May 16 15:24	Π °0			8423 May 09 00:44	Π °0	
evening rise	8422 May 26 21:21	18° Ⅲ 33'14		evening rise	8423 May 09 12:07	0°Ⅱ49′52	
asc. node	•					1.50 TO 515.6	
	8422 May 31 02:06	26° Ⅱ 14′03		asc. node	8423 May 17 23:10	15° Ⅱ 25'56	
	•	26°∏14′03 0°©		asc. node evening max el	8423 May 17 23:10 8423 May 26 15:06	27° II 25'51	18°05'33
evening max el	8422 May 31 02:06		18°11'45		•		18°05'33
	8422 May 31 02:06 8422 Jun 02 04:53	0ಂತಾ	18°11'45		8423 May 26 15:06	27° II 25'51	18°05'33

evening set	8423 Jun 04 19:15	0° © 11'10			8424 May 01 02:03	0° I I	
evening set	8423 Jun 05 04:56	30°RⅡ		asc. node	8424 May 03 20:14	4° Ⅱ 09'42	
inferior conj	8423 Jun 11 04:49	25° I I05'01	2°39'40	evening max el	8424 May 09 04:20	10° Ⅱ 49'56	18°18'04
minimum elong	8423 Jun 11 07:37	24° ∏ 57'53	2°38'52	retrograde	8424 May 15 13:48	14° Ⅱ 15'01	
min. Earth dist.	8423 Jun 14 05:03	22° ∏ 02'14	0.61857 AU	evening set	8424 May 18 13:46	13° Ⅱ 26'14	
morning rise	8423 Jun 17 17:57	19° Ⅱ 01'38		inferior conj	8424 May 24 11:46	8° Ⅱ 01'57	3°10'29
desc. node	8423 Jun 21 15:45	17° Ⅲ 03'50		minimum elong	8424 May 24 13:28	7° Ⅱ 57'06	3°10'06
direct	8423 Jun 24 11:20	16° Ⅲ 39'16		min. Earth dist.	8424 May 26 22:20	5° Ⅱ 15'32	0.63941 AU
morning max el	8423 Jul 08 15:30	24° Ⅱ 40′15	27°55'48	morning rise	8424 May 30 12:00	1° Ⅱ 47'54	
	8423 Jul 13 11:43	0°€			8424 Jun 02 08:14	30° ₹ 8	
	8423 Aug 02 10:17	$0^{\circ}\Omega$		direct	8424 Jun 06 05:27	29° 8 07'24	
morning set	8423 Aug 11 05:32	16° Ω 53'47		desc. node	8424 Jun 07 12:46	29° 8 12'54	
asc. node	8423 Aug 13 22:32	22° Ω 31'55			8424 Jun 10 08:55	$\Pi^{\circ}0$	
max. Earth dist.	8423 Aug 16 20:30	28° Ω 46'57	1.32029 AU	morning max el	8424 Jun 20 00:39	7° Ⅱ 08'30	27°37'16
	8423 Aug 17 09:56	0° m/y			8424 Jul 07 13:24	0 \circ \odot	
				morning set	8424 Jul 24 23:38	0° Ω 40′15	
superior conj	8423 Aug 18 16:42	2°Mp48'11	0°46'47		8424 Jul 24 15:30	0 $^{\circ}\Omega$	
minimum elong	8423 Aug 18 14:48	2° m 37'43	0°46'19	max. Earth dist.	8424 Jul 29 21:30	10° Ω 41'41	1.32877 AU
evening rise	8423 Aug 25 12:00	17° m 40'39		asc. node	8424 Jul 30 19:30	12° Ω 37'26	
	8423 Aug 31 12:14	0∘ ত					
desc. node	8423 Sep 17 14:37	26° ≏ 09'05		superior conj	8424 Aug 01 22:52	17° Ω 11'06	0°21'34
evening max el	8423 Sep 19 19:58	28° ≏ 25'38	24°31'17	minimum elong	8424 Aug 01 21:50	17° Ω 05'34	0°21'12
	8423 Sep 21 13:33	0° M			8424 Aug 07 21:17	O° m y	
retrograde	8423 Oct 03 14:45	5°M21'04		evening rise	8424 Aug 08 23:33	2° m 20'21	
evening set	8423 Oct 08 19:51	4° ™ 20'45			8424 Aug 24 03:06	0° ⊽	
min. Earth dist.	8423 Oct 14 06:56	1°M31'58	0.56568 AU	evening max el	8424 Aug 31 07:16	8° ≏ 38'22	22°52'07
inferior conj	8423 Oct 16 21:00	29° ≏ 53'49	-5°33'04	desc. node	8424 Sep 03 11:44	11° ≏ 23'59	
minimum elong	8423 Oct 16 23:18	29° ≙ 50′10	5°32'52	retrograde	8424 Sep 13 13:13	15° ≙ 15'25	
	8423 Oct 16 17:06	30° ₹ Ω		evening set	8424 Sep 17 06:03	14° ≙ 45'24	
morning rise	8423 Oct 25 04:54	25° £ 50'46		min. Earth dist.	8424 Sep 24 15:28	11° ≏ 25'22	0.55216 AU
direct	8423 Oct 27 19:21	25° ≏ 32'25		inferior conj	8424 Sep 26 01:06	10° ≙ 37'08	-5°23'30
	8423 Nov 06 07:58	0°M₊		minimum elong	8424 Sep 25 19:52	10° ≏ 44'39	5°22'54
morning max el	8423 Nov 06 10:21	0°M05'37	19°32'45	morning rise	8424 Oct 04 11:44	6° £ 48'14	
asc. node	8423 Nov 09 22:11	3°M58'47		direct	8424 Oct 07 13:54	6° £ 26′03	
morning set	8423 Nov 23 19:19	28°M02'35		morning max el	8424 Oct 18 18:26	11° ≏ 40'21	20°51'21
	8423 Nov 24 18:39	0° ≯		asc. node	8424 Oct 26 19:10	21° ≏ 42'00	
					8424 Oct 31 16:10	0°M₅	
superior conj	8423 Dec 01 18:20	14° ₰ 00'04	1°25'15	morning set	8424 Nov 07 03:02	12°M44'44	
minimum elong	8423 Dec 01 21:04	14° ₹ 13'26	1°25'10				
max. Earth dist.	8423 Dec 08 01:20		1.37800 AU	superior conj	8424 Nov 14 12:44	28°M07'59	1°36'55
	8423 Dec 10 06:05	0° ろ		minimum elong	8424 Nov 14 14:13	28°M15'39	1°37'00
evening rise	8423 Dec 11 18:43	2°る43'18		P. 4. P.	8424 Nov 15 10:39	0° ∡ 7	1.05500 1.77
desc. node	8423 Dec 14 13:29	7° る 33'35		max. Earth dist.	8424 Nov 19 09:53	7° ₹ 55'35	1.35780 AU
. ,	8423 Dec 28 18:02	0°≈	25012121	evening rise	8424 Nov 23 09:32	15° ₹ 31'56	
evening max el	8424 Jan 16 08:25	23°≈24'23	25°12'21	desc. node	8424 Nov 30 10:31	28° ₹ 03'20	
	8424 Jan 25 23:17	0°)(8424 Dec 01 14:13	5°0	
retrograde	8424 Jan 28 08:27	0°) €21'04			8424 Dec 22 08:07	0°≈ 7°••00!53	26919109
evening set	8424 Jan 30 14:44 8424 Feb 03 02:54	30°R≈ 27°≈57'34		evening max el	8424 Dec 28 21:27		26°18'08
evening set asc. node	8424 Feb 03 02:54 8424 Feb 05 21:22	27°≈57'34 25°≈06'59		retrograde	8425 Jan 10 16:35 8425 Jan 16 23:19	14°≈24'03 11°≈51'27	
asc. node min. Earth dist.	8424 Feb 05 21:22 8424 Feb 07 13:35	23°≈06'59 23°≈01'52	0.67632 AU	evening set min. Earth dist.	8425 Jan 16 23:19 8425 Jan 21 03:28	7°≈30'23	0.66650 AU
inferior conj	8424 Feb 07 13.33 8424 Feb 08 17:58	23 ≈01 32 21°≈29'31	0.67632 AU 0°55'51	inferior conj	8425 Jan 22 19:25	7 ≈30 23 5°≈28'22	0.00030 AU 0°00'49
minimum elong	8424 Feb 08 16:40	21°≈33'48		minimum elong	8425 Jan 22 19:23	5°≈28'28	0°00'57
morning rise	8424 Feb 14 06:44	15°≈34'12	0 3327	transit middle	8425 Jan 22 19:23	5°≈28'28	0°00'57
direct	8424 Feb 17 19:19	13 ≈34 12 14°≈22'47		transit begin	8425 Jan 22 16:31	5°≈37'16	0 00 37
morning max el	8424 Feb 17 19:19 8424 Feb 24 22:24	14 ≈2247 18°≈19'37	19°24'54	transit degin	8425 Jan 22 22:16	5°≈19'41	
morning max er	8424 Mar 05 04:30	0° ∀	17 24 34	asc. node	8425 Jan 22 18:27	5°≈31'21	
greatest brilliancy	8424 Mar 08 18:57	5°) 15'48	-0.7m		8425 Jan 28 05:03	30°Rる	
desc. node	8424 Mar 11 13:05	9° \(\) 23'32	V./III	morning rise	8425 Jan 28 16:13	30 KO 29°る42'47	
morning set	8424 Mar 20 13:10	23° H 09'40		direct	8425 Jan 31 17:52	28° る 49'33	
	8424 Mar 24 23:14	25 γ (0) 40 0° γ			8425 Feb 04 09:39	20° ≈	
max. Earth dist.	8424 Apr 02 07:05		1.44839 AU	morning max el	8425 Feb 07 08:53	0 ∞ 2°≈24'39	18°36'01
mun. Durin tist.	512111pi 02 07.03	15 01 73	1.11037 AU	desc. node	8425 Feb 26 10:00	2 ≈24 39 29°≈41'11	10 30 01
superior conj	8424 Apr 06 02:42	19° Ƴ 05'22	-2°09'13	acce. Hour	8425 Feb 26 14:46	0° \	
minimum elong	8424 Apr 05 22:54	18° Υ 50'12		morning set	8425 Feb 28 06:01	2°) 34'43	
	8424 Apr 12 20:55	0°8			2.22.20 20 00.01	= 7(3113	
evening rise	8424 Apr 20 06:01	12° 8 11'08		superior conj	8425 Mar 16 09:47	27°) 56′22	-1°48'20
	-r- = 3 00.01	O - 1 00		- · · · · · · · · · · · · · · · · · · ·			

minimum elong	8425 Mar 16 00:33	27° ₩ 20'11		superior conj	8426 Feb 23 17:27	6° ¥ 56′12	
max. Earth dist.	8425 Mar 16 01:01	27°) (22′00 0° °	1.45476 AU	minimum elong	8426 Feb 23 09:24	6° ¥ 24'23	1°09'39
ovening rise	8425 Mar 17 17:22	0°γ' 22° Υ 34'01		max. Earth dist.	8426 Feb 26 20:21 8426 Mar 10 12:11	11° χ 51'10	1.45377 AU
evening rise	8425 Apr 01 00:19 8425 Apr 05 16:10	0° 8		evening rise	8426 Mar 10 12.11 8426 Mar 11 21:40	0 1 2°Υ09'29	
greatest brilliancy	8425 Apr 09 08:53	5° 8 52'01	-0.8m	greatest brilliancy	8426 Mar 25 04:24	22° Υ 27'46	-0.7m
asc. node	8425 Apr 20 17:19	22° 8 16'31	0.0111	greatest orimaney	8426 Mar 30 09:47	0°8	0.7111
evening max el	8425 Apr 22 15:25	24° 8 23'16	18°48'36	evening max el	8426 Apr 05 22:18	8° 8 00'32	19°35'52
retrograde	8425 Apr 29 07:49	28° 8 05'14		asc. node	8426 Apr 07 14:24	9° 8 34'23	
evening set	8425 May 02 15:11	27° 8 02'21		retrograde	8426 Apr 13 05:15	12° 8 10'28	
inferior conj	8425 May 08 05:23	21° 8 21'41	3°22'34	evening set	8426 Apr 16 20:48	10° 8 52'44	
minimum elong	8425 May 08 05:44	21° 8 20'34	3°22'25	inferior conj	8426 Apr 22 06:20	4° 8 57'21	3°19'54
min. Earth dist.	8425 May 10 00:42	19° 8 07'05	0.65694 AU	minimum elong	8426 Apr 22 05:30	5° 8 00'05	3°19'44
morning rise	8425 May 13 19:41	15° 8 03'37		min. Earth dist.	8426 Apr 23 10:41	3° 8 23'31	0.67034 AU
direct	8425 May 20 07:12	12° 8 16'50			8426 Apr 26 05:31	30° ₹ Υ	
desc. node	8425 May 25 09:44	13° 8 41'40	26046150	morning rise	8426 Apr 27 13:53	28° Υ 39'22	
morning max el	8425 Jun 02 11:14	20° 8 05'28	26°46'58	direct	8426 May 03 15:10	25° Y 57'49	
	8425 Jun 10 22:49 8425 Jun 30 15:34	0°© 0°∏		desc. node	8426 May 12 06:42 8426 May 12 07:24	29° Y 58'35 0° と	
morning set	8425 Jul 08 07:06	13° 9 53'46		morning max el	8426 May 15 21:00	3° 8 17'58	25°33'30
max. Earth dist.	8425 Jul 12 12:30	22° © 08'33	1.34213 AU	morning max ci	8426 Jun 05 04:40	0°II	25 55 50
max. Earth dist.	8425 Jul 16 09:04	0°Ω	1.54215710	morning set	8426 Jun 20 23:49	26°∏22'28	
	0120 341 10 05.01	V 00		morning sec	8426 Jun 22 23:12	0°95	
superior conj	8425 Jul 16 23:08	1° Ω 12'59	-0°07'17	max. Earth dist.	8426 Jun 24 16:31	3° © 13'35	1.36008 AU
minimum elong	8425 Jul 16 23:32	1° Ω 15′06	0°07'22				
behind sun begin	8425 Jul 16 18:23	0° Ω 48'19		superior conj	8426 Jun 30 14:46	14° 5 346'03	-0°38'35
behind sun end	8425 Jul 17 04:41	1° Ω 41'54		minimum elong	8426 Jun 30 17:04	14° © 57'37	0°38'18
asc. node	8425 Jul 17 16:29	2° Ω 43′29		asc. node	8426 Jul 04 13:29	22° 5 45'43	
evening rise	8425 Jul 24 09:31	16° Ω 51'56			8426 Jul 08 02:16	$0^{\circ}\Omega$	
	8425 Jul 30 23:11	0° m		evening rise	8426 Jul 08 15:44	1° Ω 08'42	
evening max el	8425 Aug 13 01:01	19° m 01'59	21°17'45		8426 Jul 26 06:00	0° m)	
desc. node	8425 Aug 21 08:48	24° Th 26'36		evening max el	8426 Jul 26 07:23	0° Mp 03'26	19°59'22
retrograde	8425 Aug 25 02:33	25° m 00'43		retrograde	8426 Aug 05 16:38	5° Mp 10'56	
evening set	8425 Aug 27 12:42	24° Mp 47'08	4010127	evening set	8426 Aug 07 13:58	5° Mp 01'31	
inferior conj minimum elong	8425 Sep 05 18:13 8425 Sep 05 08:40	20° mp 49'48 21° mp 03'14		desc. node inferior conj	8426 Aug 08 05:53 8426 Aug 16 14:21	4° m 53'56 1° m 01'52	2021150
min. Earth dist.	8425 Sep 05 08:40 8425 Sep 06 00:15	20° Mp 41'20	0.54680 AU	minimum elong	8426 Aug 16 07:25	1° mg 12'18	
morning rise	8425 Sep 14 05:19	16° Mp 57'13	0.54000 710	minimum ciong	8426 Aug 18 07:24	30°RΩ	2 27 23
direct	8425 Sep 17 22:23	16° Mp 27'30		min. Earth dist.	8426 Aug 18 11:05	29° Ω 54'31	0.55102 AU
morning max el	8425 Sep 30 14:26	22° m 28'39	22°28'39	morning rise	8426 Aug 24 23:17	26° Ω 45'44	
C	8425 Oct 07 03:31	0∘ ⊽		direct	8426 Aug 29 10:42	26° Ω 02'00	
asc. node	8425 Oct 13 16:08	10° ♀ 10'15			8426 Sep 08 20:22	0° m	
morning set	8425 Oct 22 13:40	27° ≏ 33'17		morning max el	8426 Sep 12 03:22	2°M/46'30	24°14'41
	8425 Oct 23 17:23	0° M		asc. node	8426 Sep 30 13:06	29° m 12'30	
					8426 Sep 30 23:05	0∘ ত	
superior conj	8425 Oct 29 15:10	12°M38'03		morning set	8426 Oct 07 01:25	12° ≏ 23'07	
minimum elong	8425 Oct 29 15:21	12°M39'00	1°41'21			_	
max. Earth dist.	8425 Nov 02 01:30	19°M49'21	1.34091 AU	superior conj	8426 Oct 13 22:54	27° Ω 21'47	
evening rise	8425 Nov 06 15:19	29°M00'39		minimum elong	8426 Oct 13 21:56	27° Ω 16'33	1°39'05
1 1	8425 Nov 07 03:32	0° ⊀ ⁷		T at 11 a	8426 Oct 15 04:03	0°ጤ 1°ጤ56'23	1 22024 ATT
desc. node	8425 Nov 17 07:34 8425 Nov 24 17:52	18°≯18'32 0°る		max. Earth dist. evening rise	8426 Oct 16 01:38 8426 Oct 21 08:24	12°M59'45	1.32824 AU
evening max el	8425 Dec 11 10:33	0 පි 20°පි46'17	27°05'50	evening rise	8426 Oct 21 08:24 8426 Oct 30 07:51	0° √	
retrograde	8425 Dec 24 18:59	28° る 06'59	27 03 30	desc. node	8426 Nov 04 04:38	8° ∡ 12'34	
evening set	8425 Dec 31 12:19	25° る 30'53		desc. node	8426 Nov 20 00:37	0°る	
min. Earth dist.	8426 Jan 04 10:46		0.65310 AU	evening max el	8426 Nov 23 22:37	4° る 02'52	27°28'24
inferior conj	8426 Jan 06 14:20	19° ට 18'41	-1°01'23	retrograde	8426 Dec 07 14:50	11° る 21'35	
minimum elong	8426 Jan 06 16:09	19° る 13'35	1°00'27	evening set	8426 Dec 14 15:22	8° る 49'38	
asc. node	8426 Jan 09 15:30	16° ප 05'41		min. Earth dist.	8426 Dec 18 09:23	5° る 34'07	0.63645 AU
morning rise	8426 Jan 12 21:17	13° පි 45'11		inferior conj	8426 Dec 21 00:11	2° る 54'36	
direct	8426 Jan 15 13:51	13° る 06'22		minimum elong	8426 Dec 21 04:15	2° る 44'15	2°07'23
morning max el	8426 Jan 22 00:13	16° る 30'49	18°03'46		8426 Dec 24 01:12	30°₹ ⋌ ¹	
	8426 Jan 31 21:31	0° ≈		morning rise	8426 Dec 27 18:58	27° ∡ ³36'14	
morning set	8426 Feb 09 04:11	13° ≈ 27'59		asc. node	8426 Dec 27 12:33	27° 🖈 42'45	
desc. node							
	8426 Feb 13 06:56	20°≈11'39		direct	8426 Dec 30 04:44	27° ₹ 07'53	
	8426 Feb 13 06:56 8426 Feb 19 08:44	20°≈11'39 0° ∺		morning max el	8426 Dec 30 04:44 8427 Jan 05 04:30 8427 Jan 05 17:36	2/°×'0/'53 0°る 0°る31'13	170/01/7

morning set	8427 Jan 22 05:31	25° る 41'03		superior conj	8428 Jan 15 22:31	28° る 00'25	0°15'30
	8427 Jan 24 17:51	0° ≈		minimum elong	8428 Jan 15 23:55	28° る 06'23	0°15'27
desc. node	8427 Jan 31 03:54	10° ≈ 51′03		behind sun begin	8428 Jan 15 21:39	27° る 56'42	
				behind sun end	8428 Jan 16 02:10	28° る 16'05	
superior conj	8427 Feb 03 19:15	16° ≈ 51'36	-0°26'20		8428 Jan 17 02:29	0° ≈	
minimum elong	8427 Feb 03 16:23	16° ≈ 39'51	0°25'46	desc. node	8428 Jan 18 00:53	1° ≈ 35′03	
max. Earth dist.	8427 Feb 09 15:03	26°≈15'20	1.44561 AU	max. Earth dist.	8428 Jan 23 06:26	10° ≈ 16'47	1.43108 AU
	8427 Feb 11 23:48	0° ∀		evening rise	8428 Jan 30 01:43	21° ≈ 09'16	
evening rise	8427 Feb 19 09:04	11°) 29'03		<i>8</i> 23	8428 Feb 04 19:27	0°) €	
	8427 Mar 03 16:02	0°Υ			8428 Feb 26 02:35	0°Υ	
evening max el	8427 Mar 19 23:52	21° Υ 39'50	20°37'36	evening max el	8428 Mar 01 20:02	5° Υ 20'17	21°50'26
asc. node	8427 Mar 25 11:29	25° Y 49'47	20 37 30	retrograde	8428 Mar 11 01:27	10° Υ 48'07	21 30 20
		26° Y 26'13		•		10° Υ 47'40	
retrograde	8427 Mar 28 03:46	26 γ 26 13 24° Υ 53'14		asc. node	8428 Mar 11 08:35	8° Y 59'47	
evening set	8427 Apr 01 04:31		2005115	evening set	8428 Mar 15 12:37		20.4012.5
inferior conj	8427 Apr 06 12:00	18° ℃ 44'56	3°05'15	inferior conj	8428 Mar 20 20:10	2° Υ 41'02	2°40'25
minimum elong	8427 Apr 06 10:19	18° Y ′50'44	3°04'56	minimum elong	8428 Mar 20 18:00	2° Y ′48′36	2°39'54
min. Earth dist.	8427 Apr 07 02:25	17° Y ′55′26	0.67930 AU	min. Earth dist.	8428 Mar 20 21:45	2° Y 35'31	0.68379 AU
morning rise	8427 Apr 11 15:53	12° Y 29'20			8428 Mar 22 19:23	30° ₹ ₩	
direct	8427 Apr 17 04:21	10° Y ′02'07		morning rise	8428 Mar 25 23:13	26° ∺ 29'17	
morning max el	8427 Apr 28 05:59	16° Ƴ 39'11	24°06'55	direct	8428 Mar 30 21:41	24°) 22′00	
desc. node	8427 Apr 29 03:41	17° Ƴ 35′12		morning max el	8428 Apr 09 16:30	0° Ƴ 08'14	22°37'17
	8427 May 09 07:15	0° ႘			8428 Apr 09 13:13	0° Y	
	8427 May 29 04:45	$\Pi^{\circ}0$		desc. node	8428 Apr 15 00:39	6° Ƴ 09'33	
morning set	8427 Jun 02 20:39	7° Ⅱ 52'40			8428 May 02 02:52	0°B	
max. Earth dist.	8427 Jun 06 13:35	14° Ⅱ 23'17	1.38147 AU	morning set	8428 May 13 16:17	18° 8 11'34	
				max. Earth dist.	8428 May 18 10:48	26° 8 09'53	1.40397 AU
superior conj	8427 Jun 13 18:20	27° ∏ 41'39	-1°10'28	max. Earth dist.	8428 May 20 16:25	0°II	1.103577110
minimum elong	8427 Jun 13 22:43	28° I I02'32			0420 May 20 10.23	υд	
minimum ciong	8427 Jun 13 22:43 8427 Jun 14 23:13	20 H02 32	1 0937	aumariar aani	9429 May 26 05:40	9° Ⅱ 49'50	1920155
				superior conj	8428 May 26 05:40		
asc. node	8427 Jun 21 10:30	12°5540'08		minimum elong	8428 May 26 11:27	10° Ⅱ 16'02	1°39′26
evening rise	8427 Jun 22 15:37	15° © 03'44		evening rise	8428 Jun 05 05:58	28° Ⅱ 28'53	
	8427 Jun 30 14:13	0 $^{\circ}\Omega$			8428 Jun 06 01:15	0 \circ	
evening max el	8427 Jul 09 02:35	11° Ω 49'37	19°01'20	asc. node	8428 Jun 07 07:32	2° © 22'31	
retrograde	8427 Jul 17 20:24	16° Ω 09'16		evening max el	8428 Jun 21 07:33	24° © 15'17	18°24'05
evening set	8427 Jul 19 18:45	15° Ω 57'27		retrograde	8428 Jun 28 19:23	28° © 00'09	
desc. node	8427 Jul 26 02:58	13° Ω 02'46		evening set	8428 Jul 01 00:10	27° © 41'38	
inferior conj	8427 Jul 28 02:21	11° Ω 42'42	-0°36'11	inferior conj	8428 Jul 08 11:56	23° © 06'55	1°01'27
minimum elong	8427 Jul 28 00:49	11° Ω 45'22	0°35'44	minimum elong	8428 Jul 08 13:59	23° © 02'44	1°00'34
min. Earth dist.	8427 Jul 31 01:17	9° Ω 40'29	0.56406 AU	min. Earth dist.	8428 Jul 11 21:02	20° © 23'16	0.58334 AU
morning rise	8427 Aug 05 03:44	6° Ω 50'43		desc. node	8428 Jul 12 00:03	20°9517'28	
direct	8427 Aug 10 11:14	5° Ω 44'25		morning rise	8428 Jul 16 00:26	17°539'22	
morning max el	8427 Aug 24 16:35	13°Ω02'40	25°53'40	direct	8428 Jul 22 01:58	16°903'05	
morning max ci	U	0° Mp	23 33 40		8428 Aug 05 11:24	23°945'39	27°09'07
1-	8427 Sep 06 23:30	-		morning max el			27 09 07
asc. node	8427 Sep 17 10:04	18° Mp 39'40			8428 Aug 11 02:45	0° Ω	
morning set	8427 Sep 21 12:36	27° TD 08'56			8428 Aug 30 01:50	0° m)	
	8427 Sep 22 20:29	0∘ ⊽		asc. node	8428 Sep 03 07:02	8° m/24'48	
				morning set	8428 Sep 04 21:36	11° m)46'10	
superior conj	8427 Sep 28 09:37	12° ≏ 11'39					
minimum elong	8427 Sep 28 07:50	12° ≏ 01'46		superior conj	8428 Sep 11 21:28	27° Mp 01'53	1°17'42
max. Earth dist.	8427 Sep 29 08:24	14° ≏ 17'22	1.32011 AU	minimum elong	8428 Sep 11 19:15	26° Mp 49'37	1°17'22
evening rise	8427 Oct 05 09:38	27° ≏ 19'52		max. Earth dist.	8428 Sep 11 18:26	26° Mp 45'02	1.31653 AU
	8427 Oct 06 16:37	0°M₊			8428 Sep 13 05:33	0० ट	
desc. node	8427 Oct 22 01:44	27°M35'56		evening rise	8428 Sep 18 16:27	11° ≏ 53'53	
	8427 Oct 23 15:57	0° ∡ ¹			8428 Sep 27 20:26	0° M .	
evening max el	8427 Nov 06 07:04	16° ∡ ⁴44'43	27°19'56	desc. node	8428 Oct 07 22:50	16°M16'23	
retrograde	8427 Nov 20 03:07	23° ₹ '57'43		evening max el	8428 Oct 18 09:05	28°M39'54	26°37'31
evening set	8427 Nov 27 05:06	21° х 39′16		<i>y</i>	8428 Oct 19 20:26	0° ∡ ¹	
min. Earth dist.	8427 Nov 30 21:32		0.61713 AU	retrograde	8428 Nov 01 06:59	5° ∡ 747'18	
		16° ₹ 06'57		-		3° × 52'59	
inferior conj	8427 Dec 03 21:48			evening set	8428 Nov 08 01:17		0.50622 411
minimum elong	8427 Dec 04 04:04	15° ₹ 52'47	3 1/12	min. Earth dist.	8428 Nov 11 22:48	1° × 17'31	0.59632 AU
morning rise	8427 Dec 11 05:15	11° ×7 07'13			8428 Nov 13 14:40	30°RM	100 610 6
direct	8427 Dec 13 10:58	10° ₹ 45'45		inferior conj	8428 Nov 15 03:40	28°M46'28	
asc. node	8427 Dec 14 09:36	10° √ 49'41 −		minimum elong	8428 Nov 15 11:01	28°MJ31'58	4°24'03
morning max el	8427 Dec 20 09:48	14° ∡ 16'41	17°51'52	morning rise	8428 Nov 22 23:08	24°M08'35	
	8427 Dec 31 04:23	0°ප		direct	8428 Nov 25 04:22	23°M50'46	
morning set	8428 Jan 05 03:24	8° る 52'13		asc. node	8428 Nov 30 06:37	25° MJ $30'22$	
				morning max el	8428 Dec 02 21:23	27°MJ38'17	18°14'15

	8428 Dec 05 01:12	0° ∡ 7			8429 Nov 28 23:22	0° ₹	
morning set	8428 Dec 18 15:48 8428 Dec 22 12:11	22°፟፟፟҂43'24 0°る		morning set	8429 Dec 02 14:13	7° ∡ 101'41	
				superior conj	8429 Dec 10 23:46	23° ∡ ¹28′01	1°14'48
superior conj	8428 Dec 28 01:39	10° る 17'14	0°49'41	minimum elong	8429 Dec 11 02:59	23° х 43'24	1°14'37
minimum elong	8428 Dec 28 04:53	10° る 31'52	0°49'24		8429 Dec 14 11:07	0° ප	
desc. node	8429 Jan 03 21:53	22° る 20'05		max. Earth dist.	8429 Dec 17 22:35	6° ප 19'07	1.39037 AU
max. Earth dist.	8429 Jan 04 16:34	23° る 39'37	1.41189 AU	evening rise	8429 Dec 21 19:15	13° ප 04'17	
	8429 Jan 08 11:43	0° ≈		desc. node	8429 Dec 21 18:53	13° る 02'39	
evening rise	8429 Jan 09 11:32	1°≈37'25			8430 Jan 01 05:14	0° ≈	
evening max el	8429 Jan 28 05:15 8429 Feb 12 11:53	0° ∺ 19° ∺ 02'52	23°09'40	evening max el	8430 Jan 23 08:53 8430 Jan 26 01:31	0° ∺ 2° ∺ 49'07	24°29'15
retrograde	8429 Feb 12 11:33 8429 Feb 22 20:52	25° X 11'29	23 09 40	retrograde	8430 Feb 06 12:39	2 X 4907 9° X 31'37	24 29 13
asc. node	8429 Feb 26 05:41	24°) 15'21		evening set	8430 Feb 11 23:38	7° ∺ 15'06	
evening set	8429 Feb 27 19:30	23°\(\)(13'21'		asc. node	8430 Feb 13 02:46	6° ₩ 11'39	
inferior conj	8429 Mar 05 04:52	16°) (42′29	2°06'29	min. Earth dist.	8430 Feb 16 14:28	1°) 59'14	0.68019 AU
minimum elong	8429 Mar 05 02:39	16° ¥ 50′10	2°05'50	inferior conj	8430 Feb 17 12:15	0°) 46′20	1°24'02
min. Earth dist.	8429 Mar 04 18:31	17°) (18′13	0.68400 AU	minimum elong	8430 Feb 17 10:28	0°) 52′20	1°23'28
morning rise	8429 Mar 10 09:43	10°) 35′47			8430 Feb 18 02:09	30° R ≈	
direct	8429 Mar 14 18:16	8°) (50′44		morning rise	8430 Feb 22 21:25	24° ≈ 46′07	
morning max el	8429 Mar 23 07:52	13°) (47′23	21°12'59	direct	8430 Feb 26 16:54	23° ≈ 22'57	
desc. node	8429 Apr 01 21:36	25°) €25'32		morning max el	8430 Mar 06 06:35	27°≈38'30	20°00'08
	8429 Apr 05 04:38	0°Υ 27° Ω 1 (100			8430 Mar 08 11:26	0° ∀	
morning set	8429 Apr 23 08:39	27° Y 16'00 0° と		desc. node	8430 Mar 19 18:31 8430 Mar 29 15:29	15° ℋ 11'55 0° Ƴ	
max. Earth dist.	8429 Apr 25 02:09	8° 8 48'27	1.42486 AU	morning set		0° γ 5° Υ 36'41	
max. Earm dist.	8429 Apr 30 13:18	8 0 48 27	1.42460 AU	morning set max. Earth dist.	8430 Apr 02 07:17 8430 Apr 12 22:55	$22^{\circ}\Upsilon 17'43$	1.44153 AU
superior conj	8429 May 07 19:58	20° 8 59'32	-2°02'26	max. Earth dist.	8430 Apr 17 17:47	0° 8	1.44133 AU
minimum elong	8429 May 08 00:58	21° 8 20'56			0430 Лрг 17 17.47	V O	
8	8429 May 13 00:11	0°II		superior conj	8430 Apr 18 09:52	1° 8 05'29	-2°11'59
evening rise	8429 May 19 06:40	11° Ⅱ 13′28		minimum elong	8430 Apr 18 10:11	1° 8 06'48	2°12'03
asc. node	8429 May 25 04:35	21° Ⅱ 47′10		evening rise	8430 May 01 13:07	23° 8 07'44	
	8429 May 30 04:03	0 \circ \odot			8430 May 05 13:14	$\Pi^{\circ}0$	
evening max el	8429 Jun 04 18:27	7° 5 0'26	18°06'47	asc. node	8430 May 12 01:39	10° Ⅱ 48′23	
retrograde	8429 Jun 11 11:41	10° © 35'51		evening max el	8430 May 19 07:47	20° Ⅱ 26'56	18°08'38
evening set	8429 Jun 14 00:03	10° © 07'17		retrograde	8430 May 25 17:13	23° Ⅱ 47'50	
inferior conj	8429 Jun 20 18:06	5°50512'29	2°11'32	evening set	8430 May 28 13:02	23° I I06'52	2055110
minimum elong	8429 Jun 20 21:08	5° © 05'18 2° © 09'23	2°10'30	inferior conj	8430 Jun 03 17:13	17° Ⅲ 53'07 17° Ⅲ 46'40	2°55'18 2°54'41
min. Earth dist.	8429 Jun 24 00:14 8429 Jun 26 15:29	2° 90 9°23 30° Ŗ Ⅱ	0.60563 AU	minimum elong min. Earth dist.	8430 Jun 03 19:37 8430 Jun 06 12:10		0.62780 AU
morning rise	8429 Jun 27 15:34	29° Ⅱ 18'50		morning rise	8430 Jun 10 00:33	14 ∏ 34 39	0.02780 AU
desc. node	8429 Jun 28 21:06	28° I I35'40		desc. node	8430 Jun 15 18:08	9° Ⅱ 15'44	
direct	8429 Jul 04 05:21	27° I I11'20		direct	8430 Jun 16 18:57	9° Ⅱ 12'20	
	8429 Jul 12 08:02	0ಂಣ		morning max el	8430 Jun 30 19:52	17° Ⅱ 15'11	27°52'07
morning max el	8429 Jul 18 12:58	5° © 09'07	27°49'48		8430 Jul 11 09:58	0°€	
	8429 Aug 06 01:32	$0^{\circ}\Omega$			8430 Jul 29 20:13	$0^{\circ}\Omega$	
morning set	8429 Aug 20 02:32	26° Ω 08'14		morning set	8430 Aug 04 01:18	10° Ω 09'31	
asc. node	8429 Aug 21 04:01	28° Ω 21'17		asc. node	8430 Aug 08 00:59	18° Ω 24'44	
The state of	8429 Aug 21 22:42	0° m/y	1 21 7 7 1 1 1 1	max. Earth dist.	8430 Aug 09 08:44	21° Ω 13'45	1.32326 AU
max. Earth dist.	8429 Aug 26 03:49	9° II) 07/22	1.31751 AU	aumorior coni	9420 Aug 11 17:04	260 0 1 0 100	0026124
superior conj	8429 Aug 27 08:32	11° m)45'42	0°59'25	superior conj minimum elong	8430 Aug 11 17:04 8430 Aug 11 15:28	26° Ω 18'00 26° Ω 09'17	
minimum elong	8429 Aug 27 06:32 8429 Aug 27 06:22	11° Mp 33'44	0°58'57	minimum clong	8430 Aug 11 13.28 8430 Aug 13 09:46	0° m)	0 30 08
evening rise	8429 Sep 03 02:34	26° Mp 34'16	0 3037	evening rise	8430 Aug 18 14:08	11° m p 15'45	
e vennig rise	8429 Sep 04 17:22	0° ⊽		evening rise	8430 Aug 28 01:33	0∘ ಹ	
	8429 Sep 21 19:21	0°M		evening max el	8430 Sep 11 15:04	20° ♀ 07'54	23°49'36
desc. node	8429 Sep 24 19:56	3°M56'22		desc. node	8430 Sep 11 17:02	20° ≏ 12'36	
evening max el	8429 Sep 30 03:04	9° ™ 43'53	25°24'00	retrograde	8430 Sep 25 06:22	26° ≏ 57'24	
retrograde	8429 Oct 14 00:54	16°M45'29		evening set	8430 Sep 29 20:12	26° ≏ 11'34	
evening set	8429 Oct 19 23:04	15°M24'37		min. Earth dist.	8430 Oct 06 01:32		0.55904 AU
min. Earth dist.	8429 Oct 24 15:04		0.57595 AU	inferior conj	8430 Oct 08 05:05	21° ≙ 53'24	
inferior conj	8429 Oct 27 14:32	10°M43'48		minimum elong	8430 Oct 08 04:18	21° £ 54'36	5°35'28
minimum elong	8429 Oct 27 19:57		5°16'29	morning rise	8430 Oct 16 14:29	17° £ 57'31	
morning rise	8429 Nov 04 19:10	6°M28'43		direct	8430 Oct 19 09:20	17° £ 37'55	20002124
direct	8429 Nov 07 04:27	6°M11'33 10°M25'36	18°57'42	morning max el	8430 Oct 29 16:12	22° ♀ 28'14 28° ♀ 45'24	20 05 54
morning max el asc. node	8429 Nov 16 00:40 8429 Nov 17 03:38	10°11625'36 11°11634'05	10 3/42	asc. node	8430 Nov 04 00:38 8430 Nov 04 21:29	28° ± 45′24 0° M	
asc. nouc	UT2/11UV 1/ U3.30	11 1163403			0730 NOV 04 21.29	O IIIG	

morning set	8430 Nov 16 19:18 8430 Nov 20 21:29	21° M .37′23 0° √		direct	8431 Sep 29 22:37 8431 Oct 06 19:05	28°സ് 07'57 0° ഫ	
				morning max el	8431 Oct 11 18:40	3° ≏ 41'51	21°30'55
superior conj	8430 Nov 24 11:57	7° ≯ 18′23	1°31'09	asc. node	8431 Oct 21 21:37	16° ≏ 49'29	
minimum elong	8430 Nov 24 14:11	7° ₹ 29'35	1°31'09	_	8431 Oct 29 01:41	0°M	
max. Earth dist.	8430 Nov 30 04:49	18° ≯ 25'38	1.36908 AU	morning set	8431 Nov 01 04:32	6°M23'25	
evening rise	8430 Dec 03 23:43	25° ₹ 25'53					
	8430 Dec 06 13:20	0°る		superior conj	8431 Nov 08 10:09	21°M37'01	1°39'35
desc. node	8430 Dec 08 15:52	3° ප 38'29		minimum elong	8431 Nov 08 11:05	21°M41'51	1°39'42
	8430 Dec 25 18:43	0° ≈	0.50.404.4	max. Earth dist.	8431 Nov 12 16:23	0° ≯ 20'00	1.35015 AU
evening max el	8431 Jan 08 14:41	16°≈37'09	25°42'11		8431 Nov 12 12:23	0° ⊀ 7	
retrograde	8431 Jan 20 23:42	23°≈42'32		evening rise	8431 Nov 16 21:25	8° х ³33'12 24° х ³03'09	
evening set	8431 Jan 26 23:21	21°≈14'58		desc. node	8431 Nov 25 12:56	24° x *0309	
asc. node min. Earth dist.	8431 Jan 30 23:51 8431 Jan 31 07:16	16°≈56'55 16°≈33'44	0.67258 AU		8431 Nov 29 03:44 8431 Dec 21 19:25	0°≈	
inferior conj	8431 Feb 01 16:27	10 ≈33 44 14°≈48'20	0.07238 AU 0°33'28	evening max el	8431 Dec 21 19:23 8431 Dec 22 04:04	0 ∞ 0°≈20'59	26°41'04
minimum elong	8431 Feb 01 15:37	14°≈51'00	0°33'16	retrograde	8431 Dec 22 04:04 8432 Jan 04 05:16	0 ≈2039 7°≈38'13	20 41 04
morning rise	8431 Feb 07 08:20	8°≈56'35	0 33 10	evening set	8432 Jan 10 16:53	5°≈03'31	
direct	8431 Feb 10 16:06	7°≈53'12		min. Earth dist.	8432 Jan 14 18:36	0°≈57'02	0.66130 AU
morning max el	8431 Feb 17 13:04	11°≈39'23	19°02'02	mm. Darm dist.	8432 Jan 15 14:02	30°R♂	0.00130710
moming man er	8431 Mar 03 03:48	0° ∀	13 02 02	inferior conj	8432 Jan 16 15:26	28°₹44'35	-0°24'42
greatest brilliancy	8431 Mar 03 08:18	0°) 17'04	-0.8m	minimum elong	8432 Jan 16 16:07	28° ප් 42'33	0°24'15
desc. node	8431 Mar 06 15:25	5°) 19'55		asc. node	8432 Jan 17 20:54	27° る 18'39	
morning set	8431 Mar 12 11:09	14°) € 20'33		morning rise	8432 Jan 22 16:18	23° る 03'42	
	8431 Mar 22 12:28	$0^{\circ}\Upsilon$		direct	8432 Jan 25 13:57	22° る 16'54	
max. Earth dist.	8431 Mar 26 14:42	6° Y 24'51	1.45206 AU	morning max el	8432 Feb 01 01:55	25° る 45'49	18°20'12
					8432 Feb 04 17:48	0° ≈	
superior conj	8431 Mar 29 01:05	10° Ƴ 14'40	-2°02'49	morning set	8432 Feb 20 16:11	24° ≈ 23′07	
minimum elong	8431 Mar 28 18:23	9° Ƴ 48'13	2°02'29	desc. node	8432 Feb 21 12:22	25° ≈ 43'50	
	8431 Apr 10 09:14	9° 8			8432 Feb 24 04:31	0° ∀	
evening rise	8431 Apr 12 21:00	4° 8 03'28					
asc. node	8431 Apr 28 22:43	29° 8 17'44		superior conj	8432 Mar 07 05:54	19° ∺ 02'27	
	8431 Apr 29 11:29	$\Pi^{\circ}0$		minimum elong	8432 Mar 06 20:19	18° ∺ 24'56	1°32'53
evening max el	8431 May 02 20:28	3° ∏ 56′03	18°28'57	max. Earth dist.	8432 Mar 08 10:11	20°) 53′13	1.45537 AU
retrograde	8431 May 09 07:43	7° Ⅱ 26′24			8432 Mar 14 06:02	0° Υ	
evening set	8431 May 12 10:52	6° Ⅱ 31'36		evening rise	8432 Mar 23 05:37	14° Y 03'56	
inferior conj	8431 May 18 05:08		3°17'36		8432 Apr 02 10:21	0° 8	
minimum elong	8431 May 18 06:16	0° Ⅱ 56'54	3°17'20	greatest brilliancy	8432 Apr 02 20:05	0° 8 37'28	-0.8m
min. Earth dist.	8431 May 19 01:21	30°R ∀	0.64744.411	asc. node	8432 Apr 14 19:47	17° 8 05'10	19°06'44
min. Earth dist.	8431 May 20 09:16 8431 May 24 00:48	28° 8 26'00 24° 8 44'11	0.64744 AU	evening max el retrograde	8432 Apr 15 05:59 8432 Apr 22 03:32	17° 8 31'29 21° 8 23'51	19-06 44
direct	8431 May 30 16:31	24 8 44 11		evening set	8432 Apr 25 14:23	20° 8 14'31	
desc. node	8431 Jun 02 15:07	21° 8 27'34		inferior conj	8432 May 01 02:13	14° 8 27'11	3°23'01
morning max el	8431 Jun 13 05:42	29° 8 56'14	27°19'11	minimum elong	8432 May 01 02:03	14° 8 27'14	3°22'53
morning max or	8431 Jun 13 07:11	0°Ⅱ	2, 1, 11	min. Earth dist.	8432 May 02 14:58	12° 8 29'32	0.66324 AU
	8431 Jul 05 09:12	0°©		morning rise	8432 May 06 13:17	8° 8 08'54	***************************************
morning set	8431 Jul 18 15:16	23°9542'55		direct	8432 May 12 20:49	5° 8 23'25	
S	8431 Jul 21 19:08	$0^{\circ}\Omega$		desc. node	8432 May 19 12:06	7° 8 46'05	
max. Earth dist.	8431 Jul 23 05:44	2° Ω 56'33	1.33388 AU	morning max el	8432 May 25 16:09	13° 8 01'07	26°17'57
asc. node	8431 Jul 25 21:58	8° Ω 31′05			8432 Jun 08 08:36	$\Pi^{\circ}0$	
					8432 Jun 27 01:49	0°9	
superior conj	8431 Jul 26 21:02	10° Ω 33′01	0°09'43	morning set	8432 Jun 30 16:59	6° © 38'29	
minimum elong	8431 Jul 26 20:33	10° Ω 30′25	0°09'29	max. Earth dist.	8432 Jul 04 16:16	14°513'44	1.34930 AU
behind sun begin	8431 Jul 26 16:03	10° Ω 06′38					
behind sun end	8431 Jul 27 01:02	10° Ω 54'14		superior conj	8432 Jul 09 17:59	24° © 23'23	
evening rise	8431 Aug 03 01:16	25° Ω 52'58		minimum elong	8432 Jul 09 19:09	24° 5 29'23	0°20'17
	8431 Aug 05 00:29	O° Mp		asc. node	8432 Jul 11 18:57	28°935'51	
	8431 Aug 23 19:33	0∘ ʊ	0001000		8432 Jul 12 11:08	0°N	
evening max el	8431 Aug 24 04:12	0° £ 21'30	22°10'36	evening rise	8432 Jul 17 09:57	10° Ω 19'11	
desc. node	8431 Aug 29 14:07	4° £ 35'30			8432 Jul 27 19:07	0° M)	20042100
retrograde	8431 Sep 05 23:40	6° £ 43'57		evening max el	8432 Aug 05 02:49	10° m 58'25	20°42'00
evening set	8431 Sep 09 01:56	6° £ 22'44	0.54075 433	desc. node	8432 Aug 15 11:13	16° Mp 33'42	
min. Earth dist.	8431 Sep 17 09:42	2° £ 45'18	0.54875 AU	retrograde	8432 Aug 16 11:50	16° Mp 36'21	
inferior conj	8431 Sep 18 03:07	2° £ 20'52		evening set	8432 Aug 18 14:26	16° Mp 25'32	2026126
minimum elong	8431 Sep 17 19:14 8431 Sep 22 13:54	2° £ 31'57	3 01 13	inferior conj	8432 Aug 27 19:37	12° Mp 28'38	-3°36'36 3°33'47
morning rise	8431 Sep 22 13:54 8431 Sep 26 14:06	30°R My 28° My 33'01		minimum elong min. Earth dist.	8432 Aug 27 10:27 8432 Aug 28 18:47	12° Mp 41'44 11° Mp 55'26	
morning HSC	о т эт вер 20 14.00	אור בכאוו פי		mm. Barm uist.	0732 Aug 20 10.4/	11 III 33 40	0.57740 AU

marning rise	9422 Can 05 06:21	00 m, 201/1		mamina rias	9422 Aug 16 02:47	18° Ω 19'27	
morning rise direct	8432 Sep 05 06:21 8432 Sep 09 06:47	8° Mp 28'41 7° Mp 54'07		morning rise direct	8433 Aug 16 03:47	$18 \Omega 1927$ $17^{\circ} \Omega 27'23$	
morning max el	8432 Sep 09 00.47 8432 Sep 22 10:49	14° Mp 13'54	22012140	morning max el	8433 Aug 20 23:23 8433 Sep 03 23:16	24° Ω 28'01	24050142
morning max er	8432 Sep 22 10.49 8432 Oct 04 13:44	0° ⊡	23 13 40	morning max er	8433 Sep 03 23.16 8433 Sep 09 01:35	0°M)	24 36 43
asc. node	8432 Oct 04 13:44 8432 Oct 07 18:35	5° £ 33'12		asc. node	8433 Sep 09 01:33	24° Mp 46'47	
morning set		21° £ 13'05		asc. node	8433 Sep 24 13.34 8433 Sep 27 06:23	24 III/464/ 0° ჲ	
morning set	8432 Oct 15 15:52	0°M		mamina aat	•	0 <u>₽</u> 201'29	
	8432 Oct 19 17:58	0 IIIG		morning set	8433 Sep 30 03:34	0 ==01 29	
superior conj	8432 Oct 22 15:09	6°ML13'32	1°41'04	superior conj	8433 Oct 07 00:25	21° ≏ 00'28	1°36'20
minimum elong	8432 Oct 22 13:09 8432 Oct 22 14:49	6°M11'44	1°41'09	minimum elong	8433 Oct 07 00:23 8433 Oct 06 23:03	21° ⊆ 53'02	
max. Earth dist.	8432 Oct 25 11:49	12°M18'52		max. Earth dist.	8433 Oct 00 23:03 8433 Oct 08 14:53		
evening rise	8432 Oct 30 08:24	22°M15'22	1.33493 AU	max. Earth dist.	8433 Oct 11 03:58	0°M	1.32418 AU
evening rise	8432 Nov 03 08:45	0° × 7		evening rise	8433 Oct 11 05:38 8433 Oct 14 05:16	6°M23'46	
desc. node	8432 Nov 11 10:00	0 ↗ 14° ♐ 10'06		evening rise	8433 Oct 26 21:56	0° 🗖	
desc. node	8432 Nov 11 10.00 8432 Nov 21 22:10	14 x ·1006		desc. node	8433 Oct 29 07:04	0 x . 3° x 751'52	
avanina may al	8432 Nov 21 22.10 8432 Dec 03 16:49	0 3 13° る 49'42	27919140	evening max el	8433 Nov 16 03:23	3 x ·31 32 26° x ⁷ 51'42	27020140
evening max el		13 84942 21° る 10'12	27 1849	evening max er		20 メ ・31 42	27 28 48
retrograde	8432 Dec 17 04:50			. 1	8433 Nov 19 19:30	0 3 4° ろ 09'08	
evening set	8432 Dec 24 01:59	18° る 34'32	0.64643 AU	retrograde	8433 Nov 29 21:47	. •	
min. Earth dist.	8432 Dec 27 22:16			evening set	8433 Dec 06 23:49	1°る41'21	
inferior conj	8432 Dec 30 06:48	12° る 29'07		i matra	8433 Dec 09 04:00	30°R ✓	0.62044.444
minimum elong	8432 Dec 30 09:32	12° る 21'44	1°28'15	min. Earth dist.	8433 Dec 10 16:28	28° 🗷 38'01	0.62844 AU
asc. node	8433 Jan 03 17:57	8°る13'57		inferior conj	8433 Dec 13 11:48	25° 🖈 55'13	
morning rise	8433 Jan 05 18:38	7° る 01'56		minimum elong	8433 Dec 13 16:51	25° ∡ 42'58	2°36'58
direct	8433 Jan 08 08:04	6° る 28'00	15055100	morning rise	8433 Dec 20 11:58	20° × ⁷ 44'41	
morning max el	8433 Jan 14 18:32	9° る 50'34	17°55'20	asc. node	8433 Dec 21 15:02	20° ₹ 26'26	
	8433 Jan 28 14:17	0° ≈		direct	8433 Dec 22 19:32	20° √ 19'48	
morning set	8433 Feb 01 02:37	5°≈52'38		morning max el	8433 Dec 29 11:51	23° ∡ ¹45'26	17°47'53
desc. node	8433 Feb 07 09:21	16° ≈ 18'44			8434 Jan 03 11:50	0°る	
				morning set	8434 Jan 14 13:27	18° る 32'04	
superior conj	8433 Feb 14 19:42	28° ≈ 22'03			8434 Jan 21 03:22	0° ≈	
minimum elong	8433 Feb 14 13:43	27°≈58'05	0°51'11	desc. node	8434 Jan 25 06:19	7° ≈ 00'13	
	8433 Feb 15 20:14	0° ∺					
max. Earth dist.	8433 Feb 19 05:50	5° 米 23′19	1.45114 AU	superior conj	8434 Jan 26 08:05	8° ≈ 48'03	
evening rise	8433 Mar 02 21:06	23° ¥ 28'39		minimum elong	8434 Jan 26 07:18	8° ≈ 44'46	0°07'38
	8433 Mar 07 03:19	$0^{\circ}\Upsilon$		behind sun begin	8434 Jan 25 23:09	8° ≈ 10'44	
greatest brilliancy	8433 Mar 17 13:51	15° Y 40′36	-0.6m	behind sun end	8434 Jan 26 15:27	9° ≈ 18'43	
	8433 Mar 28 08:18	9° 8		max. Earth dist.	8434 Feb 01 22:50	19° ≈ 37'30	1.44002 AU
evening max el	8433 Mar 29 10:37	1° 8 09'45	20°00'26		8434 Feb 08 12:25	0° ∀	
asc. node	8433 Apr 01 16:51	3° 8 58'37		evening rise	8434 Feb 10 08:46	2° ₩ 51'51	
retrograde	8433 Apr 06 01:51	5° 8 34'40			8434 Feb 28 15:33	$0^{\circ}\Upsilon$	
evening set	8433 Apr 09 21:09	4° 8 10'25		evening max el	8434 Mar 12 09:45	14° Ƴ 49'09	21°07'29
	8433 Apr 13 20:06	30° ₹Ƴ		asc. node	8434 Mar 19 13:57	19° Ƴ 42'57	
inferior conj	8433 Apr 15 05:31	28° Y 08'58	3°15'01	retrograde	8434 Mar 21 00:19	19° Y 53′25	
minimum elong	8433 Apr 15 04:16	28° Y 13′09	3°14'48	evening set	8434 Mar 25 05:14	18° Y 14'04	
min. Earth dist.	8433 Apr 16 03:44	26° Y 54′00	0.67468 AU	inferior conj	8434 Mar 30 12:31	12° Y 00′54	
morning rise	8433 Apr 20 11:08	21° Y 51'39		minimum elong	8434 Mar 30 10:34	12° Y 07'38	2°55'30
direct	8433 Apr 26 07:03	19° Y 15'31		min. Earth dist.	8434 Mar 30 21:23	11° Ƴ 30′07	0.68169 AU
desc. node	8433 May 06 09:05	24° Y 40′26		morning rise	8434 Apr 04 15:41	5° Y 46'30	
morning max el	8433 May 08 01:45	26° Y 19'15	24°57'42	direct	8434 Apr 09 22:12	3° Y 27'10	
	8433 May 11 11:10	0°8		morning max el	8434 Apr 20 11:01	9° Ƴ 43'47	23°28'35
	8433 Jun 01 22:20	$\Pi^{\circ}0$		desc. node	8434 Apr 23 06:04	12° Y 43'56	
morning set	8433 Jun 13 02:00	18° Ⅱ 44'42			8434 May 06 10:51	0°8	
max. Earth dist.	8433 Jun 16 16:52	25° Ⅱ 18'11	1.36887 AU	morning set	8434 May 25 12:45	29° 8 46'19	
	8433 Jun 19 05:11	0 \circ \odot			8434 May 25 15:59	$\Pi^{\circ}0$	
				max. Earth dist.	8434 May 29 12:40	6° Ⅱ 38'15	1.39106 AU
superior conj	8433 Jun 23 04:58	7° 5 41'43					
minimum elong	8433 Jun 23 08:10	7°957'26	0°51'47	superior conj	8434 Jun 06 02:11	20° Ⅱ 18'18	
asc. node	8433 Jun 28 15:57	18° © 35'24		minimum elong	8434 Jun 06 07:18	20° Ⅱ 42'14	1°22'57
evening rise	8433 Jul 01 13:52	24°528'04			8434 Jun 11 04:42	0 \circ \odot	
	8433 Jul 04 08:34	0 $^{\circ}\Omega$		evening rise	8434 Jun 15 10:07	8° © 11'09	
evening max el	8433 Jul 18 14:50	22° Ω 18'48	19°32'05	asc. node	8434 Jun 15 12:58	8°924'58	
retrograde	8433 Jul 28 06:53	27° Ω 05'17			8434 Jun 27 21:46	$0^{\circ}\Omega$	
evening set	8433 Jul 30 03:14	26° Ω 55'34		evening max el	8434 Jul 01 14:41	4° Ω 22'53	18°42'59
desc. node	8433 Aug 02 08:17	25° Ω 56'44		retrograde	8434 Jul 09 18:22	8° Ω 25'36	
inferior conj	8433 Aug 07 21:22	22° Ω 50′28		evening set	8434 Jul 11 19:06	8° Ω 11'27	
minimum elong	8433 Aug 07 16:45	22° Ω 57'50		inferior conj	8434 Jul 19 18:19	3° Ω 48'52	
min. Earth dist.	8433 Aug 10 07:05	21° Ω 18'43	0.55558 AU	minimum elong	8434 Jul 19 18:38	3° Ω 48'17	0°08'04

transit middle	8434 Jul 19 18:38	3° Ω 48'17	0000104	ratragrada	8435 Jun 22 00:58	20° © 36'45	
transit begin	8434 Jul 19 15:27	3° Ω 54'10	0 08 04	retrograde evening set	8435 Jun 24 09:07	20°93043 20°914'11	
transit begin	8434 Jul 19 13:27 8434 Jul 19 21:48	3° Ω 42'23		inferior conj	8435 Jul 01 12:56	20 \$31411 15°\$30'49	1°34'39
desc. node	8434 Jul 20 05:23	3° Ω 28'17			8435 Jul 01 12:36 8435 Jul 01 15:41	15°924'51	1°33'35
		1° Ω 26'23	0.57172 ATT	minimum elong min. Earth dist.			
min. Earth dist.	8434 Jul 22 23:41 8434 Jul 25 03:43		0.57172 AU		8435 Jul 04 22:10	12°536'01	0.59276 AU
		30°R≌		desc. node	8435 Jul 07 02:27	10°956'03	
morning rise	8434 Jul 27 14:40	28°540'49		morning rise	8435 Jul 08 19:10	9°951'10	
direct	8434 Aug 02 06:31	27° © 22'00		direct	8435 Jul 15 03:03	8°901'06	27021100
	8434 Aug 10 11:48	$0^{\circ}\Omega$		morning max el	8435 Jul 29 11:50	15° © 50'32	27°31'00
morning max el	8434 Aug 16 14:25	4° Ω 52'28	26°29'23		8435 Aug 10 01:02	0 $^{\circ}$ Ω	
	8434 Sep 03 22:04	0° ™			8435 Aug 27 08:22	0°Щ	
asc. node	8434 Sep 11 12:33	14° m 22'05		asc. node	8435 Aug 29 09:30	4° Mp 12′20	
morning set	8434 Sep 14 14:00	20° Mp 43'53		morning set	8435 Aug 29 21:28	5° Mp 14′53	
	8434 Sep 18 20:26	0∘ ⊽					
				superior conj	8435 Sep 05 23:33	20°M/39'09	1°10'31
superior conj	8434 Sep 21 11:51	5° ≏ 51'11	1°26'00	minimum elong	8435 Sep 05 21:18	20° Mp 26'40	1°10'07
minimum elong	8434 Sep 21 09:50	5° £ 39'59	1°25'47	max. Earth dist.	8435 Sep 05 09:30	19° m 21'13	1.31640 AU
max. Earth dist.	8434 Sep 21 23:17	6° £ 54'35	1.31798 AU		8435 Sep 10 05:00	0∘ ত	
evening rise	8434 Sep 28 09:09	20° ჲ 50'33		evening rise	8435 Sep 12 17:37	5° ≏ 28'05	
	8434 Oct 02 21:04	0° M.			8435 Sep 25 13:33	0° M.	
desc. node	8434 Oct 16 04:09	22°M58'31		desc. node	8435 Oct 03 01:14	11°M15'28	
	8434 Oct 21 04:53	0° ∡ ¹		evening max el	8435 Oct 11 08:25	20° ™ 49'11	26°09'46
evening max el	8434 Oct 29 09:30	9° ∡ 15'13	27°06'10	retrograde	8435 Oct 25 06:32	27°M53'28	
retrograde	8434 Nov 12 06:59	16° ₹ 26'10		evening set	8435 Oct 31 17:54	26°M12'53	
evening set	8434 Nov 19 06:44	14° ∡ 16'55		min. Earth dist.	8435 Nov 04 21:27	23°M38'16	0.58742 AU
min. Earth dist.	8434 Nov 23 00:13	11° ∡ ³34'45	0.60826 AU	inferior conj	8435 Nov 08 01:21	21° M 17'48	-4°50'40
inferior conj	8434 Nov 26 03:11	8° ∡ 755′03	-3°48'51	minimum elong	8435 Nov 08 08:21	21°M04'45	4°49'03
minimum elong	8434 Nov 26 10:09	8° ∡ 740′10	3°46'30	morning rise	8435 Nov 16 01:08	16°M49'17	
morning rise	8434 Dec 03 15:56	4° ₹ 04'09		direct	8435 Nov 18 07:32	16°M32'01	
direct	8434 Dec 05 20:48	3° х 44'43		asc. node	8435 Nov 25 09:08	19°M31'12	
asc. node	8434 Dec 08 12:06	4° × 13'46		morning max el	8435 Nov 26 10:57	20°M29'43	18°30'02
morning max el	8434 Dec 13 02:32	7° ₹ ¹22'04	17°58'55		8435 Dec 03 15:13	0°×7	10 00 02
morning max or	8434 Dec 27 15:37	0°る	17 3033	morning set	8435 Dec 12 11:19	16° ₹ 06'22	
morning set	8434 Dec 28 18:11	2° පි 02'18		morning sec	8435 Dec 19 17:30	0°පි	
morning sec	0.51.200 20 10.11	2 00210			0.00 200 17 17.00	. .	
superior conj	8435 Jan 07 21:59	20°る27'05	0°31'04	superior conj	0425 D 21 00 47	3° ⋜ 08'05	1°01'27
				Superior com	8435 Dec 21 09:4/	3 00003	1 01 2 /
minimum elong					8435 Dec 21 09:47 8435 Dec 21 13:10	3°る23'49	
minimum elong	8435 Jan 08 00:26	20° පි 37'52	0°30'52	minimum elong	8435 Dec 21 13:10	3°₹23'49	1°01'11
minimum elong desc. node	8435 Jan 08 00:26 8435 Jan 12 03:17	20°る37'52 27°る45'02		minimum elong max. Earth dist.	8435 Dec 21 13:10 8435 Dec 28 20:13	3° ට 23'49 16°ට28'21	
desc. node	8435 Jan 08 00:26 8435 Jan 12 03:17 8435 Jan 13 11:11	20° ි 37'52 27° ි 545'02 0° ක	0°30'52	minimum elong max. Earth dist. desc. node	8435 Dec 21 13:10 8435 Dec 28 20:13 8435 Dec 30 00:15	3° ට 23'49 16° ට 28'21 18° ට 29'02	1°01'11
desc. node max. Earth dist.	8435 Jan 08 00:26 8435 Jan 12 03:17 8435 Jan 13 11:11 8435 Jan 15 11:46	20°る37'52 27°る45'02 0°≈ 3°≈22'52		minimum elong max. Earth dist.	8435 Dec 21 13:10 8435 Dec 28 20:13 8435 Dec 30 00:15 8436 Jan 02 02:42	3° ට 23'49 16° ට 28'21 18°ට29'02 23°ට43'09	1°01'11
desc. node	8435 Jan 08 00:26 8435 Jan 12 03:17 8435 Jan 13 11:11 8435 Jan 15 11:46 8435 Jan 21 07:43	20°る37'52 27°る45'02 0°≈ 3°≈22'52 12°≈50'29	0°30'52	minimum elong max. Earth dist. desc. node	8435 Dec 21 13:10 8435 Dec 28 20:13 8435 Dec 30 00:15 8436 Jan 02 02:42 8436 Jan 05 22:56	3°ට 23'49 16°ට 28'21 18°ට 29'02 23°ට 43'09 0°≈	1°01'11
desc. node max. Earth dist. evening rise	8435 Jan 08 00:26 8435 Jan 12 03:17 8435 Jan 13 11:11 8435 Jan 15 11:46 8435 Jan 21 07:43 8435 Feb 01 12:24	20°♂37'52 27°♂45'02 0°≈ 3°≈22'52 12°≈50'29 0°升	0°30'52 1.42332 AU	minimum elong max. Earth dist. desc. node evening rise	8435 Dec 21 13:10 8435 Dec 28 20:13 8435 Dec 30 00:15 8436 Jan 02 02:42 8436 Jan 05 22:56 8436 Jan 26 09:49	3°♂23'49 16°♂28'21 18°♂29'02 23°♂43'09 0°≈ 0°);	1°01'11 1.40290 AU
desc. node max. Earth dist.	8435 Jan 08 00:26 8435 Jan 12 03:17 8435 Jan 13 11:11 8435 Jan 15 11:46 8435 Jan 21 07:43 8435 Feb 01 12:24 8435 Feb 23 03:59	20°る37'52 27°る45'02 0°≈ 3°≈22'52 12°≈50'29 0°升 28°升30'52	0°30'52 1.42332 AU	minimum elong max. Earth dist. desc. node evening rise	8435 Dec 21 13:10 8435 Dec 28 20:13 8435 Dec 30 00:15 8436 Jan 02 02:42 8436 Jan 05 22:56 8436 Jan 26 09:49 8436 Feb 05 18:46	3°♂23'49 16°♂28'21 18°♂29'02 23°♂43'09 0°≈ 0°ℋ 12°ℋ15'05	1°01'11 1.40290 AU
desc. node max. Earth dist. evening rise evening max el	8435 Jan 08 00:26 8435 Jan 12 03:17 8435 Jan 13 11:11 8435 Jan 15 11:46 8435 Jan 21 07:43 8435 Feb 01 12:24 8435 Feb 23 03:59 8435 Feb 24 17:03	20°♂37'52 27°♂45'02 0°≈ 3°≈22'52 12°≈50'29 0°升 28°升30'52 0°°Ŷ	0°30'52 1.42332 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde	8435 Dec 21 13:10 8435 Dec 28 20:13 8435 Dec 30 00:15 8436 Jan 02 02:42 8436 Jan 05 22:56 8436 Jan 26 09:49 8436 Feb 05 18:46 8436 Feb 16 14:58	3°♂23'49 16°♂28'21 18°♂29'02 23°♂43'09 0°≈ 0°升 12°升15'05 18°升38'29	1°01'11 1.40290 AU
desc. node max. Earth dist. evening rise evening max el retrograde	8435 Jan 08 00:26 8435 Jan 12 03:17 8435 Jan 13 11:11 8435 Jan 15 11:46 8435 Jan 21 07:43 8435 Feb 01 12:24 8435 Feb 23 03:59 8435 Feb 24 17:03 8435 Mar 04 21:09	20°♂37'52 27°♂45'02 0°≈ 3°≈22'52 12°≈50'29 0°∀ 28°∀30'52 0°° 4°°16'20	0°30'52 1.42332 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node	8435 Dec 21 13:10 8435 Dec 28 20:13 8435 Dec 30 00:15 8436 Jan 02 02:42 8436 Jan 05 22:56 8436 Jan 26 09:49 8436 Feb 05 18:46 8436 Feb 16 14:58 8436 Feb 21 08:10	3°♂23'49 16°♂28'21 18°♂29'02 23°♂43'09 0°≈ 0°∀ 12°∀15'05 18°∀38'29 16°∀51'13	1°01'11 1.40290 AU
desc. node max. Earth dist. evening rise evening max el retrograde asc. node	8435 Jan 08 00:26 8435 Jan 12 03:17 8435 Jan 13 11:11 8435 Jan 15 11:46 8435 Jan 21 07:43 8435 Feb 01 12:24 8435 Feb 23 03:59 8435 Feb 24 17:03 8435 Mar 04 21:09 8435 Mar 06 11:04	20°♂37'52 27°♂45'02 0°≈ 3°≈22'52 12°≈50'29 0°¥ 28°¥30'52 0°♀ 4°♀16'20 4°♀03'44	0°30'52 1.42332 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set	8435 Dec 21 13:10 8435 Dec 28 20:13 8435 Dec 30 00:15 8436 Jan 02 02:42 8436 Jan 05 22:56 8436 Jan 26 09:49 8436 Feb 05 18:46 8436 Feb 16 14:58 8436 Feb 21 08:10 8436 Feb 21 18:52	3°る23'49 16°る28'21 18°る29'02 23°る43'09 0°≈ 0°米 12°米15'05 18°米38'29 16°米51'13 16°米29'28	1°01'11 1.40290 AU 23°43'54
desc. node max. Earth dist. evening rise evening max el retrograde	8435 Jan 08 00:26 8435 Jan 12 03:17 8435 Jan 13 11:11 8435 Jan 15 11:46 8435 Jan 21 07:43 8435 Feb 01 12:24 8435 Feb 23 03:59 8435 Feb 24 17:03 8435 Mar 04 21:09 8435 Mar 06 11:04 8435 Mar 09 13:00	20°♂37'52 27°♂45'02 0°≈ 3°≈22'52 12°≈50'29 0°¥ 28°¥30'52 0°Y 4°Y16'20 4°Y03'44 2°Y21'52	0°30'52 1.42332 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist.	8435 Dec 21 13:10 8435 Dec 28 20:13 8435 Dec 30 00:15 8436 Jan 02 02:42 8436 Jan 05 22:56 8436 Jan 26 09:49 8436 Feb 05 18:46 8436 Feb 16 14:58 8436 Feb 21 08:10 8436 Feb 21 18:52 8436 Feb 26 14:15	3°云23'49 16°云28'21 18°云29'02 23°云43'09 0°≈ 0°光 12°光15'05 18°光38'29 16°光51'13 16°光29'28 10°光54'02	1°01'11 1.40290 AU 23°43'54 0.68291 AU
desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set	8435 Jan 08 00:26 8435 Jan 12 03:17 8435 Jan 13 11:11 8435 Jan 15 11:46 8435 Jan 21 07:43 8435 Feb 01 12:24 8435 Feb 23 03:59 8435 Feb 24 17:03 8435 Mar 04 21:09 8435 Mar 06 11:04 8435 Mar 09 13:00 8435 Mar 11 20:34	20°♂37'52 27°♂45'02 0°≈ 3°≈22'52 12°≈50'29 0° ¥ 28° ¥30'52 0° Y 4° Y 16'20 4° Y 03'44 2° Y 21'52 30° R ¥	0°30'52 1.42332 AU 22°23'45	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj	8435 Dec 21 13:10 8435 Dec 28 20:13 8435 Dec 30 00:15 8436 Jan 02 02:42 8436 Jan 05 22:56 8436 Jan 26 09:49 8436 Feb 05 18:46 8436 Feb 16 14:58 8436 Feb 21 08:10 8436 Feb 21 18:52 8436 Feb 26 14:15 8436 Feb 27 05:29	3°云23'49 16°云28'21 18°云29'02 23°云43'09 0°≈ 0°光 12°光15'05 18°光38'29 16°光51'13 16°光29'28 10°光54'02 10°米02'04	1°01'11 1.40290 AU 23°43'54 0.68291 AU 1°49'31
desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj	8435 Jan 08 00:26 8435 Jan 12 03:17 8435 Jan 13 11:11 8435 Jan 15 11:46 8435 Jan 21 07:43 8435 Feb 01 12:24 8435 Feb 23 03:59 8435 Feb 24 17:03 8435 Mar 04 21:09 8435 Mar 06 11:04 8435 Mar 09 13:00 8435 Mar 11 20:34 8435 Mar 14 21:09	20°♂37'52 27°♂45'02 0°≈ 3°≈22'52 12°≈50'29 0°¥ 28°¥30'52 0°Y 4°Y16'20 4°Y03'44 2°Y21'52 30°R¥ 25°¥59'48	0°30'52 1.42332 AU 22°23'45 2°27'08	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong	8435 Dec 21 13:10 8435 Dec 28 20:13 8435 Dec 30 00:15 8436 Jan 02 02:42 8436 Jan 05 22:56 8436 Jan 26 09:49 8436 Feb 05 18:46 8436 Feb 16 14:58 8436 Feb 21 08:10 8436 Feb 21 18:52 8436 Feb 21 18:52 8436 Feb 26 14:15 8436 Feb 27 05:29 8436 Feb 27 03:23	3°云23'49 16°云28'21 18°云29'02 23°云43'09 0°≈ 0°光 12°光15'05 18°光38'29 16°光51'13 16°光29'28 10°光54'02 10°光02'04 10°光09'15	1°01'11 1.40290 AU 23°43'54 0.68291 AU
desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong	8435 Jan 08 00:26 8435 Jan 12 03:17 8435 Jan 13 11:11 8435 Jan 15 11:46 8435 Jan 21 07:43 8435 Feb 01 12:24 8435 Feb 23 03:59 8435 Feb 24 17:03 8435 Mar 04 21:09 8435 Mar 06 11:04 8435 Mar 09 13:00 8435 Mar 11 20:34 8435 Mar 14 21:09 8435 Mar 14 18:54	20°♂37'52 27°♂45'02 0°≈ 3°≈22'52 12°≈50'29 0°¥ 28°¥30'52 0°Y 4°Y16'20 4°Y03'44 2°Y21'52 30°R¥ 25°¥59'48 26°¥07'38	0°30'52 1.42332 AU 22°23'45 2°27'08 2°26'32	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise	8435 Dec 21 13:10 8435 Dec 28 20:13 8435 Dec 30 00:15 8436 Jan 02 02:42 8436 Jan 05 22:56 8436 Jan 26 09:49 8436 Feb 05 18:46 8436 Feb 16 14:58 8436 Feb 21 08:10 8436 Feb 21 18:52 8436 Feb 26 14:15 8436 Feb 27 05:29 8436 Feb 27 03:23 8436 Mar 03 11:52	3°云23'49 16°云28'21 18°云29'02 23°云43'09 0°≈ 0°米 12°米15'05 18°米38'29 16°米51'13 16°米29'28 10°米54'02 10°米02'04 10°米09'15 3°米58'05	1°01'11 1.40290 AU 23°43'54 0.68291 AU 1°49'31
desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	8435 Jan 08 00:26 8435 Jan 12 03:17 8435 Jan 13 11:11 8435 Jan 15 11:46 8435 Jan 21 07:43 8435 Feb 01 12:24 8435 Feb 23 03:59 8435 Feb 24 17:03 8435 Mar 04 21:09 8435 Mar 06 11:04 8435 Mar 09 13:00 8435 Mar 11 20:34 8435 Mar 14 21:09 8435 Mar 14 18:54 8435 Mar 14 17:39	20°♂37'52 27°♂45'02 0°≈ 3°≈22'52 12°≈50'29 0°¥ 28°¥30'52 0°Y 4°Y16'20 4°Y03'44 2°Y21'52 30°R¥ 25°¥59'48 26°¥07'38 26°¥11'57	0°30'52 1.42332 AU 22°23'45 2°27'08	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	8435 Dec 21 13:10 8435 Dec 28 20:13 8435 Dec 30 00:15 8436 Jan 02 02:42 8436 Jan 05 22:56 8436 Jan 26 09:49 8436 Feb 05 18:46 8436 Feb 16 14:58 8436 Feb 21 08:10 8436 Feb 21 18:52 8436 Feb 27 05:29 8436 Feb 27 03:23 8436 Mar 03 11:52 8436 Mar 07 14:49	3°云23'49 16°云28'21 18°云29'02 23°云43'09 0°≈ 0°米 12°米15'05 18°米38'29 16°米51'13 16°米29'28 10°米54'02 10°米02'04 10°米09'15 3°米58'05 2°米22'22	1°01'11 1.40290 AU 23°43'54 0.68291 AU 1°49'31 1°48'52
desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise	8435 Jan 08 00:26 8435 Jan 12 03:17 8435 Jan 13 11:11 8435 Jan 15 11:46 8435 Jan 21 07:43 8435 Feb 01 12:24 8435 Feb 23 03:59 8435 Feb 24 17:03 8435 Mar 04 21:09 8435 Mar 06 11:04 8435 Mar 09 13:00 8435 Mar 11 20:34 8435 Mar 14 21:09 8435 Mar 14 18:54 8435 Mar 14 17:39 8435 Mar 20 00:38	20°♂37'52 27°♂45'02 0°≈ 3°≈22'52 12°≈50'29 0°¥ 28°¥30'52 0°Y 4°Y16'20 4°Y03'44 2°Y21'52 30°R¥ 25°¥59'48 26°¥07'38 26°¥11'57 19°¥49'55	0°30'52 1.42332 AU 22°23'45 2°27'08 2°26'32	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	8435 Dec 21 13:10 8435 Dec 28 20:13 8435 Dec 30 00:15 8436 Jan 02 02:42 8436 Jan 05 22:56 8436 Feb 05 18:46 8436 Feb 16 14:58 8436 Feb 21 08:10 8436 Feb 21 18:52 8436 Feb 27 05:29 8436 Feb 27 03:23 8436 Mar 03 11:52 8436 Mar 07 14:49 8436 Mar 15 17:13	3°云23'49 16°云28'21 18°云29'02 23°云43'09 0°≈ 0°光 12°光15'05 18°光38'29 16°光51'13 16°光29'28 10°光54'02 10°光02'04 10°光09'15 3°光58'05 2°光22'22 6°光59'38	1°01'11 1.40290 AU 23°43'54 0.68291 AU 1°49'31 1°48'52
desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	8435 Jan 08 00:26 8435 Jan 12 03:17 8435 Jan 13 11:11 8435 Jan 15 11:46 8435 Jan 21 07:43 8435 Feb 01 12:24 8435 Feb 23 03:59 8435 Feb 24 17:03 8435 Mar 04 21:09 8435 Mar 09 13:00 8435 Mar 11 20:34 8435 Mar 14 21:09 8435 Mar 14 18:54 8435 Mar 14 17:39 8435 Mar 20 00:38 8435 Mar 24 17:13	20°♂37'52 27°♂45'02 0°≈ 3°≈22'52 12°≈50'29 0°¥ 28°¥30'52 0°Y 4°Y16'20 4°Y03'44 2°Y21'52 30°R¥ 25°¥59'48 26°¥07'38 26°¥11'57 19°¥49'55 17°¥51'41	0°30'52 1.42332 AU 22°23'45 2°27'08 2°26'32 0.68440 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	8435 Dec 21 13:10 8435 Dec 28 20:13 8435 Dec 30 00:15 8436 Jan 02 02:42 8436 Jan 05 22:56 8436 Feb 05 18:46 8436 Feb 16 14:58 8436 Feb 21 08:10 8436 Feb 21 18:52 8436 Feb 27 05:29 8436 Feb 27 03:23 8436 Mar 03 11:52 8436 Mar 07 14:49 8436 Mar 15 17:13 8436 Mar 26 23:58	3°云23'49 16°云28'21 18°云29'02 23°云43'09 0°≈ 0°光 12°米15'05 18°米51'13 16°米29'28 10°米54'02 10°米02'04 10°米09'15 3°米58'05 2°米22'22 6°米59'38 21°米07'15	1°01'11 1.40290 AU 23°43'54 0.68291 AU 1°49'31 1°48'52
desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise	8435 Jan 08 00:26 8435 Jan 12 03:17 8435 Jan 13 11:11 8435 Jan 15 11:46 8435 Jan 21 07:43 8435 Feb 01 12:24 8435 Feb 23 03:59 8435 Feb 24 17:03 8435 Mar 04 21:09 8435 Mar 06 11:04 8435 Mar 09 13:00 8435 Mar 11 20:34 8435 Mar 14 21:09 8435 Mar 14 18:54 8435 Mar 14 17:39 8435 Mar 20 00:38 8435 Mar 24 17:13 8435 Apr 02 23:00	20°♂37'52 27°♂45'02 0°≈ 3°≈22'52 12°≈50'29 0°¥ 28°¥30'52 0°Y 4°Y16'20 4°Y03'44 2°Y21'52 30°R¥ 26°¥07'38 26°¥11'57 19°¥49'55 17°¥51'41 23°¥16'07	0°30'52 1.42332 AU 22°23'45 2°27'08 2°26'32 0.68440 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	8435 Dec 21 13:10 8435 Dec 28 20:13 8435 Dec 30 00:15 8436 Jan 02 02:42 8436 Jan 05 22:56 8436 Feb 05 18:46 8436 Feb 16 14:58 8436 Feb 21 08:10 8436 Feb 21 18:52 8436 Feb 27 05:29 8436 Feb 27 05:29 8436 Mar 03 11:52 8436 Mar 07 14:49 8436 Mar 15 17:13 8436 Mar 26 23:58 8436 Apr 02 03:25	3°♂23'49 16°♂28'21 18°♂29'02 23°♂43'09 0°≈ 0°¥ 12°¥15'05 18°¥38'29 16°¥51'13 16°¥29'28 10°¥54'02 10°¥02'04 10°¥09'15 3°¥58'05 2°¥22'22 6°¥59'38 21°¥07'15 0°♥	1°01'11 1.40290 AU 23°43'54 0.68291 AU 1°49'31 1°48'52
desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	8435 Jan 08 00:26 8435 Jan 12 03:17 8435 Jan 13 11:11 8435 Jan 15 11:46 8435 Jan 21 07:43 8435 Feb 01 12:24 8435 Feb 23 03:59 8435 Feb 24 17:03 8435 Mar 04 21:09 8435 Mar 06 11:04 8435 Mar 09 13:00 8435 Mar 11 20:34 8435 Mar 14 21:09 8435 Mar 14 18:54 8435 Mar 14 17:39 8435 Mar 20 00:38 8435 Mar 24 17:13 8435 Apr 02 23:00 8435 Apr 08 20:21	20°♂37'52 27°♂45'02 0°≈ 3°≈22'52 12°≈50'29 0°ℋ 28°ℋ30'52 0°Ψ 4°Ψ16'20 4°Ψ03'44 2°Ψ21'52 30°ℝℋ 25°ℋ59'48 26°ℋ07'38 26°ℋ11'57 19°ℋ49'55 17°ℋ51'41 23°ℋ16'07 0°Ψ	0°30'52 1.42332 AU 22°23'45 2°27'08 2°26'32 0.68440 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	8435 Dec 21 13:10 8435 Dec 28 20:13 8435 Dec 30 00:15 8436 Jan 02 02:42 8436 Jan 05 22:56 8436 Jan 26 09:49 8436 Feb 05 18:46 8436 Feb 16 14:58 8436 Feb 21 08:10 8436 Feb 21 18:52 8436 Feb 27 05:29 8436 Feb 27 05:29 8436 Mar 03 11:52 8436 Mar 07 14:49 8436 Mar 15 17:13 8436 Mar 26 23:58 8436 Apr 02 03:25 8436 Apr 14 03:16	3°云23'49 16°云28'21 18°云29'02 23°云43'09 0°≈ 0°升 12°升15'05 18°升38'29 16°升51'13 16°升29'28 10°升62'04 10°升09'15 3°升58'05 2°升22'22 6°升59'38 21°升07'15 0°Ƴ 18°Ƴ11'31	1°01'11 1.40290 AU 23°43'54 0.68291 AU 1°49'31 1°48'52
desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	8435 Jan 08 00:26 8435 Jan 12 03:17 8435 Jan 13 11:11 8435 Jan 15 11:46 8435 Jan 21 07:43 8435 Feb 01 12:24 8435 Feb 23 03:59 8435 Feb 24 17:03 8435 Mar 04 21:09 8435 Mar 06 11:04 8435 Mar 09 13:00 8435 Mar 11 20:34 8435 Mar 14 21:09 8435 Mar 14 18:54 8435 Mar 14 17:39 8435 Mar 20 00:38 8435 Mar 24 17:13 8435 Apr 02 23:00 8435 Apr 08 20:21 8435 Apr 10 03:02	20°♂37'52 27°♂45'02 0°≈ 3°≈22'52 12°≈50'29 0°ℋ 28°ℋ30'52 0°Ψ 4°Ψ16'20 4°Ψ03'44 2°Ψ21'52 30°Rℋ 25°ℋ59'48 26°ℋ07'38 26°ℋ11'57 19°ℋ49'55 17°ℋ51'41 23°ℋ16'07 0°Ψ 1°Ψ37'35	0°30'52 1.42332 AU 22°23'45 2°27'08 2°26'32 0.68440 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set	8435 Dec 21 13:10 8435 Dec 28 20:13 8435 Dec 30 00:15 8436 Jan 02 02:42 8436 Jan 05 22:56 8436 Jan 26 09:49 8436 Feb 05 18:46 8436 Feb 16 14:58 8436 Feb 21 08:10 8436 Feb 21 18:52 8436 Feb 27 05:29 8436 Feb 27 05:29 8436 Feb 27 03:23 8436 Mar 03 11:52 8436 Mar 07 14:49 8436 Mar 15 17:13 8436 Mar 26 23:58 8436 Apr 02 03:25 8436 Apr 14 03:16 8436 Apr 21 14:35	3°云23'49 16°云28'21 18°云29'02 23°云43'09 0°≈ 0°光 12°光15'05 18°光38'29 16°光51'13 16°光29'28 10°光54'02 10°光02'04 10°光09'15 3°光58'05 2°光22'22 6°光59'38 21°光07'15 0°Y 18°Y11'31	1°01'11 1.40290 AU 23°43'54 0.68291 AU 1°49'31 1°48'52 20°40'23
desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	8435 Jan 08 00:26 8435 Jan 12 03:17 8435 Jan 13 11:11 8435 Jan 15 11:46 8435 Jan 21 07:43 8435 Feb 01 12:24 8435 Feb 23 03:59 8435 Feb 24 17:03 8435 Mar 04 21:09 8435 Mar 06 11:04 8435 Mar 09 13:00 8435 Mar 11 20:34 8435 Mar 14 21:09 8435 Mar 14 18:54 8435 Mar 14 17:39 8435 Mar 20 00:38 8435 Mar 20 00:38 8435 Mar 22 23:00 8435 Apr 08 20:21 8435 Apr 10 03:02 8435 Apr 29 19:30	20°♂37'52 27°♂45'02 0°≈ 3°≈22'52 12°≈50'29 0°ℋ 28°ℋ30'52 0°Ψ 4°Ψ16'20 4°Ψ03'44 2°Ψ21'52 30°Rℋ 25°ℋ59'48 26°ℋ07'38 26°ℋ11'57 19°ℋ49'55 17°ℋ51'41 23°ℋ16'07 0°Ψ 1°Ψ37'35 0°℧	0°30'52 1.42332 AU 22°23'45 2°27'08 2°26'32 0.68440 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	8435 Dec 21 13:10 8435 Dec 28 20:13 8435 Dec 30 00:15 8436 Jan 02 02:42 8436 Jan 05 22:56 8436 Jan 26 09:49 8436 Feb 05 18:46 8436 Feb 16 14:58 8436 Feb 21 08:10 8436 Feb 21 18:52 8436 Feb 27 05:29 8436 Feb 27 05:29 8436 Mar 03 11:52 8436 Mar 07 14:49 8436 Mar 15 17:13 8436 Mar 26 23:58 8436 Apr 02 03:25 8436 Apr 14 03:16	3°云23'49 16°云28'21 18°云29'02 23°云43'09 0°≈ 0°升 12°升15'05 18°升38'29 16°升51'13 16°升29'28 10°升62'04 10°升09'15 3°升58'05 2°升22'22 6°升59'38 21°升07'15 0°Ƴ 18°Ƴ11'31	1°01'11 1.40290 AU 23°43'54 0.68291 AU 1°49'31 1°48'52
desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set	8435 Jan 08 00:26 8435 Jan 12 03:17 8435 Jan 13 11:11 8435 Jan 15 11:46 8435 Jan 21 07:43 8435 Feb 01 12:24 8435 Feb 23 03:59 8435 Feb 24 17:03 8435 Mar 04 21:09 8435 Mar 06 11:04 8435 Mar 09 13:00 8435 Mar 11 20:34 8435 Mar 14 21:09 8435 Mar 14 18:54 8435 Mar 14 17:39 8435 Mar 20 00:38 8435 Mar 24 17:13 8435 Apr 02 23:00 8435 Apr 08 20:21 8435 Apr 10 03:02 8435 Apr 29 19:30 8435 May 05 20:31	20°♂37'52 27°♂45'02 0°≈ 3°≈22'52 12°≈50'29 0°¥ 28°¥30'52 0°Y 4°Y16'20 4°Y03'44 2°Y21'52 30°R¥ 25°¥59'48 26°¥07'38 26°¥11'57 19°¥49'55 17°¥51'41 23°¥16'07 0°Y 1°Y37'35 0°♥ 9°♥32'13	0°30'52 1.42332 AU 22°23'45 2°27'08 2°26'32 0.68440 AU 22°00'17	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	8435 Dec 21 13:10 8435 Dec 28 20:13 8435 Dec 30 00:15 8436 Jan 02 02:42 8436 Jan 05 22:56 8436 Jan 26 09:49 8436 Feb 05 18:46 8436 Feb 16 14:58 8436 Feb 21 08:10 8436 Feb 21 18:52 8436 Feb 26 14:15 8436 Feb 27 05:29 8436 Feb 27 03:23 8436 Mar 03 11:52 8436 Mar 07 14:49 8436 Mar 15 17:13 8436 Mar 26 23:58 8436 Apr 02 03:25 8436 Apr 14 03:16 8436 Apr 21 14:35 8436 Apr 22 17:28	3°云23'49 16°云28'21 18°云29'02 23°云43'09 0°≈ 0°光 12°光15'05 18°光38'29 16°光51'13 16°光29'28 10°光54'02 10°光09'15 3°光58'05 2°光22'22 6°光59'38 21°光07'15 0°Y 18°Y11'31 0°엉 1°엉48'19	1°01'11 1.40290 AU 23°43'54 0.68291 AU 1°49'31 1°48'52 20°40'23
desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	8435 Jan 08 00:26 8435 Jan 12 03:17 8435 Jan 13 11:11 8435 Jan 15 11:46 8435 Jan 21 07:43 8435 Feb 01 12:24 8435 Feb 23 03:59 8435 Feb 24 17:03 8435 Mar 04 21:09 8435 Mar 06 11:04 8435 Mar 11 20:34 8435 Mar 14 21:09 8435 Mar 14 17:39 8435 Mar 14 17:39 8435 Mar 20 00:38 8435 Mar 24 17:13 8435 Apr 02 23:00 8435 Apr 08 20:21 8435 Apr 10 03:02 8435 May 05 20:31 8435 May 11 11:25	20°♂37'52 27°♂45'02 0°≈ 3°≈22'52 12°≈50'29 0°¥ 28°¥30'52 0°Y 4°Y16'20 4°Y03'44 2°Y21'52 30°R¥ 25°¥59'48 26°¥07'38 26°¥11'57 19°¥49'55 17°¥51'41 23°¥16'07 0°Y 1°Y37'35 0°⊌ 9°♥32'13 18°♥45'07	0°30'52 1.42332 AU 22°23'45 2°27'08 2°26'32 0.68440 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	8435 Dec 21 13:10 8435 Dec 28 20:13 8435 Dec 30 00:15 8436 Jan 02 02:42 8436 Jan 05 22:56 8436 Jan 26 09:49 8436 Feb 05 18:46 8436 Feb 16 14:58 8436 Feb 21 08:10 8436 Feb 21 18:52 8436 Feb 26 14:15 8436 Feb 27 05:29 8436 Feb 27 03:23 8436 Mar 03 11:52 8436 Mar 07 14:49 8436 Mar 15 17:13 8436 Mar 26 23:58 8436 Apr 02 03:25 8436 Apr 14 03:16 8436 Apr 21 14:35 8436 Apr 22 17:28	3°云23'49 16°云28'21 18°云29'02 23°云43'09 0°≈ 0°狀 12°狀15'05 18°光38'29 16°狀51'13 16°狀29'28 10°狀54'02 10°光02'04 10°光09'15 3°狀58'05 2°狀22'22 6°狀59'38 21°光07'15 0°Y 18°Y11'31 0°엉 1°엉48'19	1°01'11 1.40290 AU 23°43'54 0.68291 AU 1°49'31 1°48'52 20°40'23
desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set	8435 Jan 08 00:26 8435 Jan 12 03:17 8435 Jan 13 11:11 8435 Jan 15 11:46 8435 Jan 21 07:43 8435 Feb 01 12:24 8435 Feb 23 03:59 8435 Feb 24 17:03 8435 Mar 04 21:09 8435 Mar 06 11:04 8435 Mar 09 13:00 8435 Mar 11 20:34 8435 Mar 14 21:09 8435 Mar 14 18:54 8435 Mar 14 17:39 8435 Mar 20 00:38 8435 Mar 24 17:13 8435 Apr 02 23:00 8435 Apr 08 20:21 8435 Apr 10 03:02 8435 Apr 29 19:30 8435 May 05 20:31	20°♂37'52 27°♂45'02 0°≈ 3°≈22'52 12°≈50'29 0°¥ 28°¥30'52 0°Y 4°Y16'20 4°Y03'44 2°Y21'52 30°R¥ 25°¥59'48 26°¥07'38 26°¥11'57 19°¥49'55 17°¥51'41 23°¥16'07 0°Y 1°Y37'35 0°♥ 9°♥32'13	0°30'52 1.42332 AU 22°23'45 2°27'08 2°26'32 0.68440 AU 22°00'17	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	8435 Dec 21 13:10 8435 Dec 28 20:13 8435 Dec 30 00:15 8436 Jan 02 02:42 8436 Jan 05 22:56 8436 Jan 26 09:49 8436 Feb 05 18:46 8436 Feb 16 14:58 8436 Feb 21 08:10 8436 Feb 21 18:52 8436 Feb 26 14:15 8436 Feb 27 05:29 8436 Feb 27 03:23 8436 Mar 03 11:52 8436 Mar 07 14:49 8436 Mar 15 17:13 8436 Mar 26 23:58 8436 Apr 02 03:25 8436 Apr 14 03:16 8436 Apr 21 14:35 8436 Apr 22 17:28	3°云23'49 16°云28'21 18°云29'02 23°云43'09 0°≈ 0°狀 12°狀15'05 18°光38'29 16°狀51'13 16°狀29'28 10°狀54'02 10°光02'04 10°光09'15 3°狀58'05 2°狀22'22 6°狀59'38 21°光07'15 0°Y 18°Y11'31 0°엉 1°엉48'19	1°01'11 1.40290 AU 23°43'54 0.68291 AU 1°49'31 1°48'52 20°40'23
desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	8435 Jan 08 00:26 8435 Jan 12 03:17 8435 Jan 13 11:11 8435 Jan 15 11:46 8435 Jan 21 07:43 8435 Feb 01 12:24 8435 Feb 23 03:59 8435 Feb 24 17:03 8435 Mar 04 21:09 8435 Mar 06 11:04 8435 Mar 09 13:00 8435 Mar 11 20:34 8435 Mar 14 21:09 8435 Mar 14 18:54 8435 Mar 14 17:39 8435 Mar 20 00:38 8435 Mar 24 17:13 8435 Apr 02 23:00 8435 Apr 08 20:21 8435 Apr 10 03:02 8435 May 05 20:31 8435 May 11 11:25 8435 May 18 01:10	20°♂37'52 27°♂45'02 0°≈ 3°≈22'52 12°≈50'29 0°¥ 28°¥30'52 0°Y 4°Y16'20 4°Y03'44 2°Y21'52 30°R¥ 25°¥59'48 26°¥07'38 26°¥11'57 19°¥49'55 17°¥51'41 23°¥16'07 0°Y 1°Y37'35 0°⊌ 9°♥32'13 18°♥45'07	0°30'52 1.42332 AU 22°23'45 2°27'08 2°26'32 0.68440 AU 22°00'17	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	8435 Dec 21 13:10 8435 Dec 28 20:13 8435 Dec 30 00:15 8436 Jan 02 02:42 8436 Jan 05 22:56 8436 Jan 26 09:49 8436 Feb 05 18:46 8436 Feb 16 14:58 8436 Feb 21 08:10 8436 Feb 21 18:52 8436 Feb 26 14:15 8436 Feb 27 05:29 8436 Feb 27 03:23 8436 Mar 03 11:52 8436 Mar 07 14:49 8436 Mar 15 17:13 8436 Mar 26 23:58 8436 Apr 02 03:25 8436 Apr 14 03:16 8436 Apr 21 14:35 8436 Apr 22 17:28 8436 Apr 29 09:22 8436 Apr 29 12:53 8436 May 09 09:44	3°523'49 16°528'21 18°529'02 23°543'09 0°≈ 0°Ж 12°Ж15'05 18°Ж38'29 16°Ж51'13 16°Ж29'28 10°Ж62'04 10°Ж69'15 3°Ж58'05 2°Ж22'22 6°Ж59'38 21°Ж07'15 0°Y 18°Y11'31 0°8 1°848'19 12°846'10 13°800'58 0°Ⅱ	1°01'11 1.40290 AU 23°43'54 0.68291 AU 1°49'31 1°48'52 20°40'23
desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	8435 Jan 08 00:26 8435 Jan 12 03:17 8435 Jan 13 11:11 8435 Jan 15 11:46 8435 Jan 21 07:43 8435 Feb 01 12:24 8435 Feb 23 03:59 8435 Feb 24 17:03 8435 Mar 04 21:09 8435 Mar 06 11:04 8435 Mar 09 13:00 8435 Mar 11 20:34 8435 Mar 14 21:09 8435 Mar 14 17:39 8435 Mar 14 17:39 8435 Mar 20 00:38 8435 Mar 24 17:13 8435 Apr 02 23:00 8435 Apr 02 23:00 8435 Apr 08 20:21 8435 Apr 10 03:02 8435 May 05 20:31 8435 May 11 11:25 8435 May 19 05:10	20°♂37'52 27°♂45'02 0°≈ 3°≈22'52 12°≈50'29 0°¥ 28°¥30'52 0°Y 4°Y16'20 4°Y03'44 2°Y21'52 30°R¥ 25°¥59'48 26°¥07'38 26°¥11'57 19°¥49'55 17°¥51'41 23°¥16'07 0°Y 1°Y37'35 0°⊌ 9°♥32'13 18°♥45'07 0°Ⅱ 2°¶03'09	0°30'52 1.42332 AU 22°23'45 2°27'08 2°26'32 0.68440 AU 22°00'17 1.41330 AU -1°50'39	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	8435 Dec 21 13:10 8435 Dec 28 20:13 8435 Dec 30 00:15 8436 Jan 02 02:42 8436 Jan 05 22:56 8436 Jan 26 09:49 8436 Feb 05 18:46 8436 Feb 16 14:58 8436 Feb 21 08:10 8436 Feb 21 18:52 8436 Feb 26 14:15 8436 Feb 27 05:29 8436 Feb 27 03:23 8436 Mar 03 11:52 8436 Mar 07 14:49 8436 Mar 15 17:13 8436 Mar 26 23:58 8436 Apr 02 03:25 8436 Apr 14 03:16 8436 Apr 21 14:35 8436 Apr 29 12:53 8436 May 09 09:44 8436 May 11 12:42	3°523'49 16°528'21 18°529'02 23°543'09 0°≈ 0° Ж 12° Ж15'05 18° Ж38'29 16° Ж51'13 16° Ж29'28 10° Ж54'02 10° Ж02'04 10° Ж02'15 3° Ж58'05 2° Ж22'22 6° Ж59'38 21° Ж07'15 0° Υ 18° Υ11'31 0° ႘ 1° ႘48'19 12° ႘46'10 13° ႘00'58 0° Ⅱ 3° Ⅱ44'40	1°01'11 1.40290 AU 23°43'54 0.68291 AU 1°49'31 1°48'52 20°40'23
desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	8435 Jan 08 00:26 8435 Jan 12 03:17 8435 Jan 13 11:11 8435 Jan 15 11:46 8435 Jan 21 07:43 8435 Feb 01 12:24 8435 Feb 23 03:59 8435 Feb 24 17:03 8435 Mar 04 21:09 8435 Mar 06 11:04 8435 Mar 09 13:00 8435 Mar 11 20:34 8435 Mar 14 21:09 8435 Mar 14 17:39 8435 Mar 14 17:39 8435 Mar 20 00:38 8435 Mar 24 17:13 8435 Mar 20 00:38 8435 Mar 24 17:13 8435 Apr 02 23:00 8435 Apr 08 20:21 8435 Apr 10 03:02 8435 Apr 10 03:02 8435 May 15 20:31 8435 May 17 11:25 8435 May 18 01:10	20°♂37'52 27°♂45'02 0°≈ 3°≈22'52 12°≈50'29 0°¥ 28°¥30'52 0°Y 4°Y16'20 4°Y03'44 2°Y21'52 30°R¥ 25°¥59'48 26°¥07'38 26°¥11'57 19°¥49'55 17°¥51'41 23°¥16'07 0°Y 1°Y37'35 0°¥ 9°♥32'13 18°♥45'07 0°¶ 2°¶03'09 2°¶28'56	0°30'52 1.42332 AU 22°23'45 2°27'08 2°26'32 0.68440 AU 22°00'17 1.41330 AU -1°50'39	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	8435 Dec 21 13:10 8435 Dec 28 20:13 8435 Dec 30 00:15 8436 Jan 02 02:42 8436 Jan 05 22:56 8436 Jan 26 09:49 8436 Feb 05 18:46 8436 Feb 16 14:58 8436 Feb 21 08:10 8436 Feb 21 18:52 8436 Feb 27 05:29 8436 Feb 27 03:23 8436 Mar 03 11:52 8436 Mar 07 14:49 8436 Mar 15 17:13 8436 Mar 26 23:58 8436 Apr 02 03:25 8436 Apr 14 03:16 8436 Apr 21 14:35 8436 Apr 22 17:28 8436 Apr 29 09:22 8436 Apr 29 09:44 8436 May 19 07:02	3°♂23'49 16°♂28'21 18°♂29'02 23°♂43'09 0°≈ 0°ℋ 12°ℋ15'05 18°ℋ38'29 16°ℋ51'13 16°ℋ29'28 10°ℋ62'04 10°ℋ09'15 3°ℋ58'05 2°ℋ22'22 6°ℋ59'38 21°ℋ07'15 0°℉ 18°℉11'31 0°❤ 18°℉11'31 0°❤ 18°℉11'31 0°❤ 18°℉11'31 0°❤ 11°♂48'19	1°01'11 1.40290 AU 23°43'54 0.68291 AU 1°49'31 1°48'52 20°40'23
desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	8435 Jan 08 00:26 8435 Jan 12 03:17 8435 Jan 13 11:11 8435 Jan 15 11:46 8435 Jan 21 07:43 8435 Feb 01 12:24 8435 Feb 23 03:59 8435 Feb 24 17:03 8435 Mar 04 21:09 8435 Mar 06 11:04 8435 Mar 11 20:34 8435 Mar 12 20:34 8435 Mar 14 21:09 8435 Mar 14 17:39 8435 Mar 14 17:39 8435 Mar 14 17:39 8435 Mar 20 00:38 8435 Mar 24 17:13 8435 Mar 20 00:38 8435 Mar 20 00:31 8435 Mar 10 03:02 8435 Apr 08 20:21 8435 Apr 10 03:02 8435 May 10 03:02 8435 May 10 03:02 8435 May 11 11:25 8435 May 19 05:10 8435 May 19 05:10 8435 May 29 19:10	20°♂37'52 27°♂45'02 0°≈ 3°≈22'52 12°≈50'29 0°¥ 28°¥30'52 0°Y 4°Y16'20 4°Y03'44 2°Y21'52 30°R¥ 26°¥07'38 26°¥11'57 19°¥49'55 17°¥51'41 23°¥16'07 0°Y 1°Y37'35 0°¥ 9°¥32'13 18°¥45'07 0°Ⅱ 2°¶03'09 2°¶28'56 21°¶20'02	0°30'52 1.42332 AU 22°23'45 2°27'08 2°26'32 0.68440 AU 22°00'17 1.41330 AU -1°50'39	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	8435 Dec 21 13:10 8435 Dec 28 20:13 8435 Dec 30 00:15 8436 Jan 02 02:42 8436 Jan 05 22:56 8436 Jan 26 09:49 8436 Feb 05 18:46 8436 Feb 16 14:58 8436 Feb 21 08:10 8436 Feb 21 18:52 8436 Feb 27 05:29 8436 Feb 27 03:23 8436 Mar 07 14:49 8436 Mar 15 17:13 8436 Mar 26 23:58 8436 Apr 02 03:25 8436 Apr 14 03:16 8436 Apr 21 14:35 8436 Apr 22 17:28 8436 Apr 29 09:22 8436 May 09 09:44 8436 May 19 07:02 8436 May 28 07:47	3°523'49 16°528'21 18°529'02 23°543'09 0°≈ 0°¥ 12°¥15'05 18°¥38'29 16°¥51'13 16°¥29'28 10°¥62'04 10°¥09'15 3°¥58'05 2°¥22'22 6°¥59'38 21°¥07'15 0°Y 18°Y11'31 0°8 1°848'19 12°846'10 13°800'58 0°Ⅱ 3°Ⅱ44'40 17°Ⅱ15'55 0°☞	1°01'11 1.40290 AU 23°43'54 0.68291 AU 1°49'31 1°48'52 20°40'23 1.43264 AU -2°08'26 2°08'26
desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	8435 Jan 08 00:26 8435 Jan 12 03:17 8435 Jan 13 11:11 8435 Jan 15 11:46 8435 Jan 21 07:43 8435 Feb 01 12:24 8435 Feb 23 03:59 8435 Feb 24 17:03 8435 Mar 04 21:09 8435 Mar 06 11:04 8435 Mar 09 13:00 8435 Mar 11 20:34 8435 Mar 14 21:09 8435 Mar 14 18:54 8435 Mar 14 17:39 8435 Mar 20 00:38 8435 Mar 24 17:13 8435 Mar 20 00:38 8435 Mar 20 00:38 8435 Mar 20 00:38 8435 Mar 20 00:38 8435 Mar 20 00:31 8435 Apr 08 20:21 8435 Apr 10 03:02 8435 Apr 10 03:02 8435 Apr 29 19:30 8435 May 15 20:31 8435 May 17 11:25 8435 May 18 01:10 8435 May 19 05:10 8435 May 29 19:10 8435 May 29 19:10 8435 May 29 19:10	20°♂37'52 27°♂45'02 0°≈ 3°≈22'52 12°≈50'29 0°¥ 28°₩30'52 0°Y 4°Y16'20 4°Y03'44 2°Y21'52 30°®₩ 25°₩59'48 26°₩07'38 26°₩11'57 19°₩49'55 17°₩51'41 23°₩16'07 0°Y 1°Y37'35 0°₩ 9°₩32'13 18°₩45'07 0°¶ 2°¶03'09 2°¶28'56 21°¶20'02 28°¶00'16	0°30'52 1.42332 AU 22°23'45 2°27'08 2°26'32 0.68440 AU 22°00'17 1.41330 AU -1°50'39	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	8435 Dec 21 13:10 8435 Dec 28 20:13 8435 Dec 30 00:15 8436 Jan 02 02:42 8436 Jan 05 22:56 8436 Jan 26 09:49 8436 Feb 05 18:46 8436 Feb 16 14:58 8436 Feb 21 08:10 8436 Feb 21 18:52 8436 Feb 27 05:29 8436 Feb 27 03:23 8436 Mar 03 11:52 8436 Mar 07 14:49 8436 Mar 15 17:13 8436 Mar 26 23:58 8436 Apr 02 03:25 8436 Apr 14 03:16 8436 Apr 21 14:35 8436 Apr 22 17:28 8436 Apr 29 09:22 8436 Apr 29 09:22 8436 May 09 09:44 8436 May 19 07:02 8436 May 28 07:47 8436 May 28 11:03	3°323'49 16°328'21 18°329'02 23°343'09 0°≈ 0° H 12° H15'05 18° H38'29 16° H51'13 16° H29'28 10° H54'02 10° H09'15 3° H58'05 2° H22'22 6° H59'38 21° H07'15 0° Y 18° Y11'31 0° B 1° B48'19 12° B46'10 13° B00'58 0° II 3° II44'40 17° II15'55 0° © 0° ©08'08	1°01'11 1.40290 AU 23°43'54 0.68291 AU 1°49'31 1°48'52 20°40'23
desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	8435 Jan 08 00:26 8435 Jan 12 03:17 8435 Jan 13 11:11 8435 Jan 15 11:46 8435 Jan 21 07:43 8435 Feb 01 12:24 8435 Feb 23 03:59 8435 Feb 24 17:03 8435 Mar 04 21:09 8435 Mar 06 11:04 8435 Mar 11 20:34 8435 Mar 12 20:34 8435 Mar 14 21:09 8435 Mar 14 17:39 8435 Mar 14 17:39 8435 Mar 14 17:39 8435 Mar 20 00:38 8435 Mar 24 17:13 8435 Mar 20 00:38 8435 Mar 20 00:31 8435 Mar 10 03:02 8435 Apr 08 20:21 8435 Apr 10 03:02 8435 May 10 03:02 8435 May 10 03:02 8435 May 11 11:25 8435 May 19 05:10 8435 May 19 05:10 8435 May 29 19:10	20°\delta37'52 27°\delta45'02 0°\delta 3°\delta22'52 12°\delta50'29 0°\delta 28°\delta30'52 0°\delta 4°\delta16'20 4°\delta91'52 30°\delta 25°\delta59'48 26°\delta07'38 26°\delta11'57 19°\delta49'55 17°\delta51'41 23°\delta16'07 0°\delta 10'\delta37'35 0°\delta 9°\delta32'13 18°\delta45'07 0°\delta 2°\delta03'09 2°\delta28'56 21°\delta20'02 28°\delta00'16 0°\delta	0°30'52 1.42332 AU 22°23'45 2°27'08 2°26'32 0.68440 AU 22°00'17 1.41330 AU -1°50'39 1°50'16	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	8435 Dec 21 13:10 8435 Dec 28 20:13 8435 Dec 30 00:15 8436 Jan 02 02:42 8436 Jan 05 22:56 8436 Jan 26 09:49 8436 Feb 05 18:46 8436 Feb 16 14:58 8436 Feb 21 08:10 8436 Feb 21 18:52 8436 Feb 27 05:29 8436 Feb 27 03:23 8436 Mar 07 14:49 8436 Mar 15 17:13 8436 Mar 26 23:58 8436 Apr 02 03:25 8436 Apr 14 03:16 8436 Apr 21 14:35 8436 Apr 22 17:28 8436 Apr 29 09:22 8436 May 09 09:44 8436 May 19 07:02 8436 May 28 07:47	3°323'49 16°328'21 18°329'02 23°343'09 0°≈ 0° H 12° H15'05 18° H38'29 16° H51'13 16° H29'28 10° H54'02 10° H02'04 10° H09'15 3° H58'05 2° H22'22 6° H59'38 21° H07'15 0° Y 18° Y11'31 0° B 1° B48'19 12° B46'10 13° B00'58 0° II 3° II44'40 17° II5'55 0° © 0° ©08'08 3° ©29'52	1°01'11 1.40290 AU 23°43'54 0.68291 AU 1°49'31 1°48'52 20°40'23 1.43264 AU -2°08'26 2°08'26
desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	8435 Jan 08 00:26 8435 Jan 12 03:17 8435 Jan 13 11:11 8435 Jan 15 11:46 8435 Jan 21 07:43 8435 Feb 01 12:24 8435 Feb 23 03:59 8435 Feb 24 17:03 8435 Mar 04 21:09 8435 Mar 06 11:04 8435 Mar 09 13:00 8435 Mar 11 20:34 8435 Mar 14 21:09 8435 Mar 14 18:54 8435 Mar 14 17:39 8435 Mar 20 00:38 8435 Mar 24 17:13 8435 Mar 20 00:38 8435 Mar 20 00:38 8435 Mar 20 00:38 8435 Mar 20 00:38 8435 Mar 20 00:31 8435 Apr 08 20:21 8435 Apr 10 03:02 8435 Apr 10 03:02 8435 Apr 29 19:30 8435 May 15 20:31 8435 May 17 11:25 8435 May 18 01:10 8435 May 19 05:10 8435 May 29 19:10 8435 May 29 19:10 8435 May 29 19:10	20°\delta37'52 27°\delta45'02 0°\delta 3°\delta22'52 12°\delta50'29 0°\delta 28°\delta30'52 0°\delta 4°\delta16'20 4°\delta91'52 30°\delta 25°\delta59'48 26°\delta07'38 26°\delta11'57 19°\delta49'55 17°\delta51'41 23°\delta16'07 0°\delta 18°\delta45'07 0°\delta 2°\delta30'09 2°\delta28'56 21°\delta20'02 28°\delta00'16 0°\delta	0°30'52 1.42332 AU 22°23'45 2°27'08 2°26'32 0.68440 AU 22°00'17 1.41330 AU -1°50'39	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	8435 Dec 21 13:10 8435 Dec 28 20:13 8435 Dec 30 00:15 8436 Jan 02 02:42 8436 Jan 05 22:56 8436 Jan 26 09:49 8436 Feb 05 18:46 8436 Feb 16 14:58 8436 Feb 21 08:10 8436 Feb 21 18:52 8436 Feb 27 05:29 8436 Feb 27 03:23 8436 Mar 03 11:52 8436 Mar 07 14:49 8436 Mar 15 17:13 8436 Mar 26 23:58 8436 Apr 02 03:25 8436 Apr 14 03:16 8436 Apr 21 14:35 8436 Apr 22 17:28 8436 Apr 29 09:22 8436 Apr 29 09:22 8436 May 09 09:44 8436 May 19 07:02 8436 May 28 07:47 8436 May 28 11:03	3°323'49 16°328'21 18°329'02 23°343'09 0°≈ 0° H 12° H15'05 18° H38'29 16° H51'13 16° H29'28 10° H54'02 10° H09'15 3° H58'05 2° H22'22 6° H59'38 21° H07'15 0° Y 18° Y11'31 0° B 1° B48'19 12° B46'10 13° B00'58 0° II 3° II44'40 17° II15'55 0° © 0° ©08'08	1°01'11 1.40290 AU 23°43'54 0.68291 AU 1°49'31 1°48'52 20°40'23 1.43264 AU -2°08'26 2°08'26

		8436 Jun 10 21:54	30° ₹ Ⅱ		asc. node	8437 May 06 04:05	6°∏04'25	
Min Farthust Salfa m 16 al 4 24 25 25 25 25 25 25	inferior conj	8436 Jun 13 02:52	27° ∏ 52'45	2°33'03	evening max el	8437 May 12 00:23	13° Ⅲ 30′13	18°15'02
Manusing 848 M 19 869 20 19 19 19 19 19 19 19 1	C				•	•		
docs of direct 843 for μα 2 (1) μα 10 (100) 2017 (2) μα 13 (1) μα 10 (100) 2075 (2) μα 13 (1) μα 13 (1) μα 10 (100) 2075 (2) μα 12 (1) μα 13				0.61525 AU	-	•		2007106
direct 815 Au 10 10 1001 29°113711 creaming face 8437 Jun 20 90.34 21°13781 0.050 47 Jun 20 90.34 21°13781 0.050 47 Jun 20 90.34 21°13788 <t< td=""><td>•</td><td></td><td></td><td></td><td>•</td><td></td><td></td><td></td></t<>	•				•			
moming manch minimal minimal minimal manching and salah ali 10 solo 10 sp. morning sate shake ali 10 solo 10 sp. morning sate shake ali 10 sp. morning sate shake					Č	•		
March Marc				27955120				0.6364 / AU
Michael Mich	morning max ei			27-33/30	•			
mommaged 4845 Aug 13 0.005 19°2,29°2 mommagmax 8437 Jul 08 19°3 19°5,014 7°4,111 aux. Earth dat 4845 Aug 18 123-22 0°8 4847 Jul 08 19°3 19°3,02 3437 Jul 08 19°3 1307 Jul 18°1 18°1,03								
ace node 845 Aug 15 0626 24/21/229 Very 19/3953 1.1944 AU morning set max 1847 Jul 27 1929 3/12 1925 3/12 1925 3/12 1925 3/12 1925 3/12 1925 3/12 1925 3/12 1929 3/12 1925 3/12 1920	morning set							2794211
Mark	•	-			morning max cr			2/ 4211
max. Earth dist 843 Aug 18 17.45 1 "By95" 1 1995 (3) 1914 Aug 20 1944 max. Earth dist 8437 Aug 10 1925 3°Q10%5 3°Q10%5 3°Q10%5 3°Q10%5 3°Q10%5 3°Q10%5 3°Q10%5 4837 Aug 00 20:32 1 "G1775 3°Q10%5 3°Q10%5 3°Q10%5 4837 Aug 00 10:32 1 "G1775 3°Q10%5	use. Hode							
	max Farth dist	•		1 31944 ATI	morning set			
superior coring immune core minimum elong and \$436 Aug 20 0448 8 579080 594948 superior coring rise and \$436 Aug 20 70438 8 7079 10714 superior coring and \$436 Aug 20 70438 8 7079 10714 superior coring and \$437 Aug 04 16:38 1972479 0°25738 legal 20 707438 1079 10714 superior coring and \$437 Aug 04 16:38 1972479 0°25738 legal 20 707479 10714	max. Darm dist.	01307145 10 17:13	1 11/27 23	1.51711110	•			1 32720 AU
minimum clong 8436 Aug 20 07484 S*B0000 0°4948 "Uniform congitable state of the st	superior coni	8436 Aug 20 09:47	5° m 19'03	0°50'15				-10-7-11-1
evening riser 843 A. Aug 27 04-33 b 20°B 1071 4 superior conj 4437 Aug 10 15-26 b 1974 429 0°23'8 1 0°25'18 0°23'8 1 2219 0°25'8 1 2219 0°25'8 1 2210 0°25'8 1		•						
Mathematical Mat	•	•			superior coni	8437 Aug 04 16:38	19° Ω 44'29	0°25'38
description 8436 Sep 18 22:19 bit 8436 Sep 20:55 bit 8436 Sep 20:55 bit 9406 Sep 20:1317 bit 94.00 sep 20:1317 bit 94.00 sep 20:1317 bit 94.00 sep 20:1317 bit 94.00 sep 20:1318 bi	<i>8</i>	Č				•		
cerning max el 4346 Sep 20 99.55 0°TM, cerning max el 8437 Aug 11 lo.15 4°TM, 50°C2 retrognade 8436 Cet 10 50.00 7°TM, 25°13 cerning max el 8437 Sep 03 10.24 11°Δ4741 23°0654 cerning set 8436 Cet 10 10.00 7°TM, 25°13 cerning max el 8437 Sep 03 10.24 11°Δ4741 23°0654 cerning set 8437 Sep 03 10.24 11°Δ4504 cerning set 8437 Sep 10 19.24 13°Δ4504 cerning set 8437 Sep 10 19.24 13°Δ4504 cerning set 8437 Sep 20 10.24 13°Δ4504 cerning set 8436 Cerning set 8437 Cerning set 8436 Cerning set 84	desc. node	•	28° ഫ 23'13		Č	-		
evening maxel 843 6 Sop 2 23.17 1*m3.373 24*48*25 evening maxel 8437 Sop 03 10:24 1*p24741 2*30°654 cvening set 8436 Oct 1 1 0:00 8*m3.05*8 6.80 8437 Sop 05 19:24 1*p24741 2*30°654 min. Earth dist. 8436 Oct 1 1 0:03 4*m3.943 5.66822 M retograde 8437 Sop 10 19:24 18*24876 1*246500 minimum clong 8436 Oct 2 10 0:30 2*m4974 5*2956 min Fairth dist. 8437 Sop 2 10 19:34 14*24027 0.53370 AU morning rise 8436 Oct 2 2 0:342 2*m3.910 minimum clong 8437 Sop 2 0 0:058 13*24419 5*28*32 morning rise 8436 Oct 2 2 0:342 2*m2.84110 morning rise 8437 Oct 07 0:028 9*245*20 1*24*24 direct 8436 Nov 2 10:08 0*m3.241 cross 80 morning rise 8437 Nov 10 0:020 1*24*24 2*9*8222 morning rise 8436 Nov 2 5 0:05 0*m3 2*m2.8416 morning rise 8437 Nov 10 0:024 1*24*40*2 2*9*8222 asc. node 8436 Nov 2 5 0:05 0*m3*24		•	0° M		evening rise	-	4° m/50'22	
Second 1 0.500 7 0.500 7 0.500 7 0.500 7 0.500	evening max el	8436 Sep 21 23:17	1°M33'37	24°45'25		8437 Aug 25 02:09		
min. Earth dist. 434 So Cet 16 10.25 49 Ray 943 0 .56822 AU retrograde evening set 8437 Sep 16 19.24 18°26284 - 18°26284 minimum conj 8436 Oct 19 06.45 2°RL4931 5°3016 min. Earth dist. 8437 Sep 20 10.33 14°44027 0.53370 AU morning rise 8436 Oct 24 0310 30% 4 minimum colong 8437 Sep 20 10.40 13°9419 5°2832 direct 8436 Nov 41 029 0°R clirect 8437 Oct 10 20.33 9°A5404 morning max el 8436 Nov 80 08.93 2°RL8846 19°22'S8 morning max el 8437 Oct 10 20.33 9°A5404 ss. node 8436 Nov 11 06.08 6°RL05'21 morning set 8436 Nov 25 06.20 0°A*2 882.00 8437 Nov 10 23.40 0°R superior conj 8436 Dec 03 1427 16°A3710 1°2245 morning set 8437 Nov 10 23.40 0°R 18°318 superior conj 8436 Dec 03 17:19 16°A3710 1°2245 8437 Dec 03 17:19 16°A3710 1°2245 minimum clong 8436 Dec 10 16.94 28°A5238 1.8817 Au 8437 Nov 20 20.34	•	•	8°M30'56		evening max el	8437 Sep 03 10:24	11° ≏ 47'41	23°06'54
inferior conj 8436 Oct 19 03:30 2°B.4°\$1 - 5°3016 evening set 8437 Sep 20 17:33 17°B.5°04 70 0.5537 AU minimum clong 8436 Oct 19 06.45 2°B.4°31 5°2956 min. Earth dist. 8437 Sep 20 10.23 14°2407 5.5370 AU 2°8°32 morning rise 8436 Oct 27 10.43 28°B.48′S8 minimum clong 8437 Sep 20 05.58 13°B.6918 5°2807 direct 8436 Nov 04 10.29 0°BL morning max el 8437 Nov 01 00.33 9°B.52′42 14°B.40′42 20°38′22 morning max el 8436 Nov 25 06.20 0°R 16°B.05′21 morning sat 8437 Nov 10 23:40 0°BL asc. node 8436 Nov 25 06.20 0°R 16°R.35′10 1°2215 morning set 8437 Nov 10 23:40 0°BL superior conj 8436 Dec 03 1427 16°R.37′10 1°2215 morning set 8437 Nov 10 23:40 0°R 1°5°37′10 minimum clong 8436 Dec 10 16.47 16°R 1°2239 superior conj 8437 Nov 10 20:30 0°R*49°30 1°35°40 minimum clong 8436 Dec 13 1427 16°R*37′10	evening set	8436 Oct 11 05:00	7°M25'13		desc. node	8437 Sep 05 19:25	13° ჲ 55'00	
minimum elong 8436 Oct 19 06.45 2 m/49/34 5°29/56 min. Earth dist. 8437 Sep 29 10.04 18°24/072 0.55370 AU morning rise 8436 Oct 24 0330 30°RΔ minimum elong 8437 Sep 29 0.05 13°Δ9419 5°28072 direct 8436 Oct 29 2342 28°Δ4578 morning may el 8437 Oct 07 02038 9°Δ5404 10°29 9°Δ5404 10°29 9°Δ5404 10°29 9°Δ5404 10°29 10°R 8436 Nov 08 0203 2°R5886 19°22′58 morning max el 8437 Oct 02 2030 29°34°40′24 20°38′22 20°38′22 30°34°40′24 20°38′22 30°40′24 20°38′24 20°38′240′24 20°38′240′24 30°34°40′24 20°38′240′24 20°38′240′24 30°34°40′24 20°38′240′24 <	min. Earth dist.	8436 Oct 16 10:25	4°M39'43	0.56822 AU	retrograde	8437 Sep 16 19:24	18° ≏ 28'44	
Marie	inferior conj	8436 Oct 19 03:30	2°M54'51	-5°30'16	evening set	8437 Sep 20 17:33	17° ≏ 55'04	
morning rise 843 G Oct 27 10:43 28°Δ48′S B minimum elong 843 T Set 2 0 5:58 13°Δ50′IS 52°80′IS direct 843 G Oct 2 2 23:42 28°Δ310′I morning fine 843 T Oct 0 7 20:38 9°Δ54′II 79°Δ4′II 437 Oct 1 0 20:33 9°Δ54′II 9°Δ4′II 16°R 433 G Nov 1 0 60.8 6°RL921 asc. node 843 K Ove 2 06:20 0°R 433 K Ove 2 0 62.0 0°R 433 K Ove 2 0 20.0 22°40′C4 20°38′22 10°8 433 K Ove 2 0 20.0 15°RL326 0°RL 433 K Ove 2 0 20.0 15°RL326 0°R 10°R 433 K Ove 2 0 20.0 15°RL326 0°R 10°R 433 K Ove 2 0 20.0 15°RL326 0°R 10°R	minimum elong	8436 Oct 19 06:45	2°M49'34	5°29'56	min. Earth dist.	8437 Sep 27 19:23	14° ≏ 40'27	0.55370 AU
direct 436 Oct 29 23:42 28° £310 Use 10 omning rise 8437 Oct 10 20:32 9°£404 Use 20° £320 morning max el 8436 Nov 08 09:33 2° £584 Use 2158 morning max el 8437 Oct 10 20:33 2° £402 Use 20° 88° 22 asc. node 8436 Nov 15 06:08 6° £1052 Use 2158 morning max el 8437 Nov 10 23:06 20° £402 Use 2152 Use 20° £3 morning set 8436 Nov 25 16:25 0° ₹3255 Use 20° £3 morning set 8437 Nov 10 23:20 0° ₹4 superior conj 8436 Dec 03 14:27 16° ₹3700 1°2245 8437 Nov 17 07:22 0° ₹4052 1°3538 minimum clong 8436 Dec 10 16:47 0° ₹5110 1°2239 superior conj 8437 Nov 17 07:22 0° ₹4052 1°3538 evening rise 8436 Dec 10 16:47 0° ₹5110 1°2239 superior conj 8437 Nov 17 07:22 0° ₹4950 1°3541 evening rise 8436 Dec 13 19:33 5° ₹3327 cening rise 8437 Nov 17 07:22 0° ₹4950 1°3541 evening rise 8436 Dec 15 21:14 9° ₹308*3 1° ₹218 8437 Nov 10 03:24 2° ₹4010 2° ₹4010 <t< td=""><td></td><td>8436 Oct 24 03:30</td><td>30°ŖΩ</td><td></td><td>inferior conj</td><td>8437 Sep 29 10:04</td><td>13°≏44'19</td><td>-5°28'32</td></t<>		8436 Oct 24 03:30	30° Ŗ Ω		inferior conj	8437 Sep 29 10:04	13° ≏ 44'19	-5°28'32
morning max el 8436 Nov 04 10.29 0°H.	morning rise	8436 Oct 27 10:43	28° ≏ 48'58		minimum elong	8437 Sep 29 05:58	13° ჲ 50'18	5°28'07
moming max el 8436 Nov 08 09:33 2°BL5846 19°22758 moming max el 8437 Oct 21 19:36 41°Q4042 20°38'2240'24 asc. node 8436 Nov 11 06:08 6°BL0521 asc. node 8437 Nov 10 23:40 0°CP morning set 8436 Nov 25 12:55 0°X³32'55 morning set 8437 Nov 10 23:22 0°X² superior conj 8436 Nov 25 12:55 0°X³32'55 morning set 8437 Nov 10 23:22 0°X² superior conj 8436 Dec 03 14:27 16°X3700 1°22'45 8437 Nov 17 07:22 0°X40'52 1°35'38 minimum clong 8436 Dec 10 16:47 0°G minimum clong 8437 Nov 17 07:22 0°X40'52 1°35'38 evening rise 8436 Dec 10 16:47 0°G minimum clong 8437 Nov 17 07:22 0°X4'95 1°35'38 des. node 8436 Dec 15 21:14 0°G evening rise 8437 Dec 02 12:16 2°%40'10 1°35'11 evening max el 8437 Nov 12 0°X4 1°22'14 evening rise 8437 Dec 02 12:16 0°36'15'15'15'15'15'15'15'15'15'15'15'15'15'	direct	8436 Oct 29 23:42	28° ≏ 31'01		morning rise	8437 Oct 07 20:28	9° ≙ 54'04	
asc, node 8436 Nov 21 0.60.8 6°R.05'21 asc, node 8437 Nov 02 3.06.0 23° Δ40'24 CPL 8437 Nov 01 29 0.30.0 23° Δ40'24 CPL Assistance 8437 Nov 02 3.00.0 CPL CPL Assistance 8437 Nov 02 0.00.0 CPL Included CPL Assistance CPL SIDELITIZE SIDELITIZE SIDELITIZE CPL SIDELITIZE SIDELITIZE CPL SIDELITIZE SIDELITIZE CPL SIDELITIZE SIDELITIZE SIDELITIZE CPL SIDELITIZE SIDELITIZE SIDELITIZE SIDELITIZE CPL SIDELITIZE		8436 Nov 04 10:29	0° M		direct	8437 Oct 10 20:33	9° ჲ 32'42	
morning set 8436 Nov 25 06:20 0°× morning set 8437 Nov 09 20:02 1578 1376 1678 27825 morning set 8437 Nov 09 20:02 1578 1376 <th< td=""><td>morning max el</td><td>8436 Nov 08 09:33</td><td>2°M58'46</td><td>19°22'58</td><td>morning max el</td><td>8437 Oct 21 19:36</td><td>14°≏40'42</td><td>20°38'22</td></th<>	morning max el	8436 Nov 08 09:33	2°M58'46	19°22'58	morning max el	8437 Oct 21 19:36	14° ≏ 40'42	20°38'22
morning set 8436 Nov 25 12:55 0°x³3255 0°x³3255 morning set 8437 Nov 16 23:22 0°x³ 1978 superior conj 8436 Dec 03 14:27 16°x³3709 1°2245 superior conj 8437 Nov 17 07:22 0°x³ 1°3538 max. Earth dist. 8436 Dec 10 10:59 28°x³238 1.38117 AU minimum clong 8437 Nov 17 07:22 0°x³4030 1°3541 evening rise 8436 Dec 10 16:47 0°C max. Earth dist. 8437 Nov 17 07:22 0°x³4030 1°3541 evening rise 8436 Dec 13 19:33 5°C\$3137 max. Earth dist. 8437 Nov 20 07:34 18°x³1525 desc. node 8436 Dec 15 21:14 9°C90845 evening rise 8437 Dec 02 18:16 29°x³4010 evening max el 8437 Ian 22 22:19 0°X evening max el 8437 Dec 02 20:256 0°S evening set 8437 Ian 3 00 447 2°X550 0°X evening max el 8437 Dec 31 20:55 9°x4753 26°0923 retrograde 8437 Feb 04 21:19 0°X45510 evening max el 8438 Jan 13 13:46 10°x0274 10°x0274 <	asc. node	8436 Nov 11 06:08	6°M05′21		asc. node	8437 Oct 29 03:06		
superior conj 8436 Dec 03 14:27 16°×3709 1°22'45 minimum elong 8436 Dec 03 17:19 16°×37101 1°22'39 superior conj 8437 Nov 17 07:20 0°×34'052 1°35'38 max. Earth dist. 8436 Dec 10 10:59 28°×35'238 1.38117 AU minimum elong 8437 Nov 17 07:00 0°×34'940 1.36059 AU evening rise 8436 Dec 13 19:33 5°G33'27 evening rise 8437 Nov 22 09:37 10°×34'940 1.36059 AU evening rise 8436 Dec 15 21:14 9°G0'84'5 desc. node 8437 Dec 02 18:16 20°×34'010 - evening max el 8437 Dec 32 22:56 0°% 8437 Dec 02 22:56 0°% 0°% 0°% 8437 Dec 02 22:56 0°%						8437 Nov 01 23:40		
superior conj 8436 Dec 03 14:27 16° 8'37'09 1°22'45 minimum clong 8436 Dec 10 10:59 28° 8'52'38 1.38117 AU superior conj 8437 Nov 17 07:22 0° 3'49'30 1°35'38 max. Earth dist. 8436 Dec 10 10:59 28° 8'52'38 1.38117 AU max. Earth dist. 8437 Nov 17 09:03 0° 3'49'40 1.36059 AU evening rise 8436 Dec 10 10:47 0° 5'533'27 evening rise 8437 Nov 20 07:48 18° 3'15'25 desc. node 8436 Dec 12 21:14 9° 508'45 desc. node 8437 Dec 02 18:16 29° 3'40'10 evening max el 8437 Jan 18 07:56 0° 8 25°01'28 evening max el 8437 Dec 02 22:56 0° 8 evening max el 8437 Jan 22 22:19 0° ½ 10° ½ evening max el 8437 Dec 03 12:13 10° 3' 2° 09'02'3 retrograde 8437 Feb 04 21:19 0° ½3'31'1 evening set 8438 Jan 19 18:41 14° 29'02'2 0° 6'8 evening set 8437 Feb 05 12:11 0° ½ 25° 82'20 0.67743 AU min. Earth dist. 8438 Jan 25 13:42 8° 80'32 0° 90'42	morning set	8436 Nov 25 12:55	0° ∡ ³32'55		morning set			
minimum elong 8436 Dec 03 17:19 16° ₹51'10 1°22'39 superior conj 8437 Nov 17 07:22 0° ₹40'52 1°35'38 max. Earth dist. 8436 Dec 10 01:59 28° ₹52'38 1.38117 AU minimum elong 8437 Nov 17 09:03 0° ₹40'30 1°35'41 evening rise 8436 Dec 10 16:47 0° ₹ max. Earth dist. 8437 Nov 22 09:37 10° ₹40'40 136059 AU evening rise 8436 Dec 15 21:14 9° ₹08'45 desc. node 8437 Dec 02 18:16 29° ₹40'10 20° ₹40'13 evening max el 8437 Loc 23 22:56 0° ≈ 8437 Dec 02 22:56 0° ₹ 20° ₹40'13 evening max el 8437 Jan 18 07:56 26° ≈01'35 25°01'28 evening max el 8437 Dec 02 18:16 29° ₹40'10 20° ₹20'23 retrograde 8437 Jan 18 07:56 26° ≈01'35 25°01'28 evening max el 8437 Eb 0 31 20:57 0° ≈47'53 26°09'23 retrograde 8437 Feb 0 5 12:11 0° ₹40'33'11 evening max el 8438 Jan 13 13:46 17° ≈00'29 evening set 8437 Feb 0 7 05:16 28° ≈32'20 0.67*743 AU			_			8437 Nov 16 23:22	0° ∡	
max. Earth dist. 8436 Dec 10 01:59 28°x5238 1.38117 AU minimum elong 8437 Nov 17 09:03 0°x4930 1°3541 evening rise 8436 Dec 10 16:47 0°G max. Earth dist. 8437 Nov 22 09:37 10°x4940 1.36059 AU evening rise 8436 Dec 15 21:14 9°G0845 desc. node 8437 Dec 02 18:16 29°x4010 evening max el 8437 Jan 18 07:56 26°≈01'35 25°01'28 evening max el 8437 Dec 02 20:56 0°G evening max el 8437 Jan 18 07:56 26°≈01'35 25°01'28 evening max el 8437 Dec 02 10:57 9°≈47'53 26°09'23 retrograde 8437 Jan 30 04:47 2°¥55'06 retrograde 8438 Jan 13 13:46 17°≈60'29 0°€ evening set 8437 Feb 04 21:19 0°¥33'11 evening set 8438 Jan 23 23:46 10°≈0'24 0.66815 AU asc. node 8437 Feb 07 05:16 28°≈12'25 min. Earth dist. 8438 Jan 25 13:57 8°≈40'43 0°93'9 inferior conj 8437 Feb 10 11:42 24°≈0'931 10°30'3 minimum elong 8438 Jan 25 13:42							_	
evening rise 8436 Dec 10 16:47 0°B max. Earth dist. 8437 Nov 22 09:37 10°A4940 1.36059 AU evening rise 8436 Dec 13 19:33 5°B3327 evening rise 8437 Nov 26 07:48 18°A1525 18°A17 AU desc. node 8437 Dec 02 18:16 29°A410 29°A10 20°A1 20°A1 evening max el 8437 Jan 18 07:56 26°80135 25°01'28 8437 Dec 02 18:16 0°B 0°B evening max el 8437 Jan 22 22:19 0°H evening max el 8437 Dec 31 20:57 9°84753 26°09'23 evening set 8437 Feb 04 21:19 0°H3311 evening set 8438 Jan 13 13:46 17°860'29 17°860'29 evening set 8437 Feb 05 12:11 30°R min. Earth dist. 8438 Jan 13 13:46 11°860'29 10°80'24 0.66815 AU asc. node 8437 Feb 05 12:11 30°R min. Earth dist. 8438 Jan 25 13:42 8°840'33 0°9'32 inferior conj 8437 Feb 10 11:42 24°80'44 10°32 minimum elong 8437 Feb 10 11:42 24°80'44 10°35 transit middle <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	_							
evening rise	max. Earth dist.			1.38117 AU	C			
desc. node 8436 Dec 15 21:14 9°S08'45 desc. node 8437 Dec 02 18:16 29°X40'10 Cord evening max el 8437 Dec 28 22:56 0°S 8437 Dec 22 22:56 0°S 0°S evening max el 8437 Jan 18 07:56 26°≈01'35 25°01'28 evening max el 8437 Dec 31 20:57 0°≈4 retrograde 8437 Jan 30 04:47 2°¥55'06 retrograde 8438 Jan 13 13:46 17°≈00'29 evening set 8437 Feb 05 12:11 30°R≈ retrograde 8438 Jan 13 13:46 17°≈00'29 0.66815 AU asc. node 8437 Feb 05 12:11 30°R≈ min. Earth dist. 8438 Jan 12 18:41 14°≈29'02 0.66815 AU asc. node 8437 Feb 07 05:16 28°≈12'25 nord min. Earth dist. 8438 Jan 25 13:42 16°≈60'42 0.66815 AU asc. node 8437 Feb 10 10:15 24°≈09'31 1°03'05 transit middle 8438 Jan 25 13:42 8°∞05'32 0°09'42 morning rise 8437 Feb 10 10:15 24°≈09'31 1°03'05 transit middle 8438 Jan 25 13:42 8°∞05'32 0°09'42								1.36059 AU
evening max el 8437 Jan 18 07:56 26°≈01'35 25°01'28 8437 Dec 02 22:56 0°≈ 0°▼ retrograde 8437 Jan 22 22:19 0°°€ evening max el 8437 Dec 31 20:57 9°≈47'53 26°09'23 26°09'23 retrograde 8437 Jan 30 04:47 2°°€55'06 retrograde 8438 Jan 13 13:46 17°≈00'29 retrograde 8438 Jan 13 13:46 17°≈00'29 retrograde 11°200'29 retrograde 8438 Jan 19 18:41 14°≈20'2 retrograde 8438 Jan 19 18:41 14°∞20'2 retrograde 8438 Jan 19 18:41 16°∞20'2 retrograde	•				•			
evening max el 8437 Jan 18 07:56 26°≈01'35 25°01'28 evening max el 8437 Dec 23 04:25 0°≈4 20°09'23 20°09'24 20°09'23 20°09'23 20°09'24 20°09'23 20°09'24 20°09'23 20°09'24 20°09'23 20°09'24 20°09'23 20°09'24 20°	desc. node				desc. node			
retrograde 8437 Jan 22 22:19 0°H evening max el 8437 Dec 31 20:57 9°≈47'53 26°09'23 retrograde 8437 Jan 30 04:47 2°H55'06 retrograde 8438 Jan 13 13:46 17°≈00'29 17°≈00'29 17°≈00'29 18°20'24 18°20'34 18°20'3				25901120				
retrograde 8437 Jan 30 0 04:47 2°\(\frac{3}{5}\)500 retrograde 8438 Jan 13 13:46 17°\(\pi\)0029 revening set 8437 Feb 04 21:19 0°\(\frac{3}{3}\)311 revening set 8438 Jan 13 13:46 17°\(\pi\)00242 0.66815 AU asc. node 8437 Feb 07 05:16 28°\(\pi\)2125 asc. node 8438 Jan 25 02:10 8°\(\pi\)00242 0.66815 AU asc. node 8437 Feb 09 09:00 25°\(\pi\)3220 0.67743 AU inferior conj 8438 Jan 25 13:57 8°\(\pi\)00444 0°09'39 inferior conj 8437 Feb 10 11:42 24°\(\pi\)004913 10'30'5 transit middle 8438 Jan 25 13:57 8°\(\pi\)00444 0°09'39 inferior conj 8437 Feb 10 10:15 24°\(\pi\)004913 10'30'5 transit middle 8438 Jan 25 13:42 8°\(\pi\)00532 0'09'42 80'141 10'10'15 24°\(\pi\)004913 10'30'5 transit middle 8438 Jan 25 13:42 8°\(\pi\)00532 0'09'42 80'141 10'10'15 24°\(\pi\)004939 inferior conj 8437 Feb 10 10:15 24°\(\pi\)004939 110'30'5 transit middle 8438 Jan 25 13:42 8°\(\pi\)00532 0'09'42 80'141 10'10'10'10'10'10'10'10'10'10'10'10'10'1	evening max ei			23 01 28	avaning may al			26000122
evening set 8437 Feb 04 21:19 0° ★33'11 evening set 8438 Jan 19 18:41 14°≈29'02 0.66815 AU asc. node 8437 Feb 05 12:11 30°R≈ min. Earth dist. 8438 Jan 25 02:21 8°≈40'43 0.66815 AU asc. node 8437 Feb 07 05:16 28°≈12'25 asc. node 8438 Jan 25 13:57 8°≈40'43 0°09'39 inferior conj 8437 Feb 10 11:42 24°≈04'44 1°03'32 minimum elong 8438 Jan 25 13:42 8°≈40'43 0°09'42 minimum elong 8437 Feb 10 11:42 24°≈09'31 1°03'05 transit middle 8438 Jan 25 13:42 8°≈05'32 0°09'42 morning rise 8437 Feb 10 13:47 16°≈53'52 transit middle 8438 Jan 25 13:42 8°≈05'32 0°09'42 morning max el 8437 Feb 19 13:47 16°≈53'52 transit med 8438 Jan 25 15:59 7°≈8'8'28 1°2'36 1°2'4 1°2'4 1°2'4 1°2'4 1°2'4 1°2'4 1°2'4 1°2'4 1°2'4 1°2'4 1°2'4 1°2'4 1°2'4 1°2'4 1°2'4 1°2'4 1°2'4 1°2'4 </td <td>ratra ara da</td> <td></td> <td></td> <td></td> <td>•</td> <td></td> <td></td> <td>20 09 23</td>	ratra ara da				•			20 09 23
8437 Feb 05 12:11 30°R≈ min. Earth dist. 8438 Jan 23 23:46 10°≈02'42 0.66815 AU asc. node 8437 Feb 07 05:16 28°≈12'25 asc. node 8438 Jan 25 02:21 8°≈40'43 min. Earth dist. 8437 Feb 09 09:00 25°≈32'20 0.67743 AU inferior conj 8438 Jan 25 13:57 8°≈40'44 0°09'39 inferior conj 8437 Feb 10 11:42 24°≈40'44 1°03'32 minimum elong 8438 Jan 25 13:42 8°≈40'32 0°09'42 minimum elong 8437 Feb 10 10:15 24°≈40'31 1°03'05 transit middle 8438 Jan 25 13:42 8°≈40'32 0°09'42 morning rise 8437 Feb 15 23:28 18°≈408'10 transit begin 8438 Jan 25 13:42 8°≈40'32 0°09'42 morning max el 8437 Feb 19 13:47 16°≈53'52 transit end 8438 Jan 25 15:59 7°≈58'28 morning max el 8437 Feb 26 19:24 20°≈55'11 19°33'33 morning rise 8438 Feb 10 10:455 2°≈417'25 desc. node 8437 Mar 11 12:54 7° ¾34'56 -0.7m morning max el 8438 Feb 10 10:457 4°≈59'28 18°42'15 desc. node 8437 Mar 24 00:57 26° ¾32'45 desc. node 8438 Mar 19 10:19 0°° № max. Earth dist. 8437 Apr 09 10:03 22° № 31'45 2°10'36 morning max el 8438 Mar 19 12:28 1°№1855 -1°52'45 superior conj 8437 Apr 19 10:03 22° № 13'45 2°10'37 superior conj 8438 Mar 19 12:28 1°№1855 -1°52'45 evening rise 8437 Apr 09 10:03 22° № 13'45 2°10'37 superior conj 8438 Mar 19 12:24 0°° № 1°52'55 evening rise 8437 Apr 14 05:21 0° ₺ 15° ₺14'26 evening rise 8438 Mar 19 12:40 0° № 42:15 evening rise 8437 Apr 09 10:03 22° № 13'45 2°10'37 superior conj 8438 Mar 19 12:40 0° № 42:15 evening rise 8437 Apr 09 10:03 22° № 13'45 2°10'37 superior conj 8438 Mar 19 12:40 0° № 14:27 1°52'05 evening rise 8437 Apr 09 10:03 22° № 13'45 2°10'37 superior conj 8438 Mar 19 12:40 0° № 14:27 1°52'05 evening rise 8437 Apr 09 10:03 22° № 13'45 2°10'37 superior conj 8438 Mar 19 12:40 0° № 14:27 1°52'05	•				•			
asc. node 8437 Feb 07 05:16 28°≈12'25 asc. node 8438 Jan 25 02:21 8°≈40'43 min. Earth dist. 8437 Feb 09 09:00 25°≈32'20 0.67743 AU inferior conj 8438 Jan 25 13:57 8°≈40'44 0°09'39 inferior conj 8437 Feb 10 11:42 24°≈40'44 1°03'32 minimum elong 8438 Jan 25 13:42 8°≈05'32 0°09'42 morning rise 8437 Feb 15 23:28 18°≈408'10 transit middle 8438 Jan 25 11:25 8°≈12'36 0°09'42 direct 8437 Feb 19 13:47 16°≈53'52 transit end 8438 Jan 25 15:59 7°≈58'28 18°<21'36	evening set				-			0.66815 ATT
min. Earth dist. 8437 Feb 09 09:00 25°≈32'20 0.67743 AU inferior conj 8438 Jan 25 13:57 8°≈04'44 0°09'39 inferior conj 8437 Feb 10 11:42 24°≈04'44 1°03'32 minimum elong 8438 Jan 25 13:42 8°≈05'32 0°09'42 minimum elong 8437 Feb 10 10:15 24°≈09'31 1°03'05 transit middle 8438 Jan 25 13:42 8°≈05'32 0°09'42 morning rise 8437 Feb 15 23:28 18°≈08'10 transit begin 8438 Jan 25 13:42 8°≈05'32 0°09'42 direct 8437 Feb 19 13:47 16°≈53'52 transit end 8438 Jan 25 15:59 7°≈58'28 16°≈58'28 16°≈53'52 transit end 8438 Jan 31 09:25 2°≈17'25 16°≈58'28 16°≈53'52 16°≈53'33 morning rise 8438 Jan 31 09:25 2°≈17'25 2°≈17'25 2°≈17'25 2°≈17'25 2°≈17'25 2°≈17'25 2°≈17'25 4°≈59'28 18°42'15 4°≈59'28 18°42'15 4°≈59'28 18°42'15 4°≈59'28 18°42'15 4°≈45'15 4°≈59'28 18°42'15 4°≈45'15 4°≈45'15 4°≈59'28 18°42'15 <td>asc node</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.00013710</td>	asc node							0.00013710
inferior conj 8437 Feb 10 11:42 24°≈04'44 1°03'32 minimum elong 8438 Jan 25 13:42 8°≈05'32 0°09'42 minimum elong 8437 Feb 10 10:15 24°≈09'31 1°03'05 transit middle 8438 Jan 25 13:42 8°≈05'32 0°09'42 morning rise 8437 Feb 15 23:28 18°≈08'10 transit begin 8438 Jan 25 11:25 8°≈12'36 4° direct 8437 Feb 19 13:47 16°≈53'52 transit end 8438 Jan 25 15:59 7°≈58'28 4° morning max el 8437 Feb 26 19:24 20°≈55'11 19°33'33 morning rise 8438 Jan 31 09:25 2°≈17'25 2°≈17'25 greatest brilliancy 8437 Mar 06 06:02 0° H direct 8438 Feb 03 12:33 1°≈21'44 4°≈59'28 18°42'15 desc. node 8437 Mar 13 20:53 11° H03'07 8438 Feb 03 12:33 1° H18'21 1° H18				0 67743 AU				0°09'39
minimum elong 8437 Feb 10 10:15 24°≈09'31 1°03'05 transit middle transit begin 8438 Jan 25 13:42 8°≈05'32 0°09'42 morning rise 8437 Feb 15 23:28 18°≈08'10 transit begin 8438 Jan 25 11:25 8°≈12'36 direct 8437 Feb 19 13:47 16°≈53'52 transit end 8438 Jan 25 15:59 7°≈58'28 morning max el 8437 Feb 26 19:24 20°≈55'11 19°33'33 morning rise 8438 Jan 31 09:25 2°≈17'25 8437 Mar 06 06:02 0°¥ direct 8438 Feb 03 12:33 11°≈21'44 greatest brilliancy 8437 Mar 11 12:54 7° ₩34'56 -0.7m morning max el 8438 Feb 10 04:57 4°≈59'28 18°42'15 desc. node 8437 Mar 24 00:57 26° ₩32'45 desc. node 8438 Feb 27 21:48 0° ₩ max. Earth dist. 8437 Mar 26 06:39 0° Ψ morning set 8438 Mar 03 13:59 5° ₩45'49 max. Earth dist. 8437 Apr 05 06:14 15° №36'18 1.44678 AU max. Earth dist. 8438 Mar 19 21:28 29° ₩52'50 1.45428 AU superior conj 8437 Apr 10 10:03 22° №13'45 2°10'37 superior conj 8438 Mar 19 21:24					•			
morning rise 8437 Feb 15 23:28 18°≈08'10 transit begin 8438 Jan 25 11:25 8°≈12'36 direct 8437 Feb 19 13:47 16°≈53'52 transit end 8438 Jan 25 15:59 7°≈58'28 morning max el 8437 Feb 26 19:24 20°≈55'11 19°33'33 morning rise 8438 Jan 31 09:25 2°≈17'25 8437 Mar 06 06:02 0° ★ direct 8438 Feb 03 12:33 1°≈21'44 greatest brilliancy 8437 Mar 11 12:54 7° ★34'56 -0.7m morning max el 8438 Feb 03 12:33 1°≈21'44 desc. node 8437 Mar 24 00:57 26° ★32'45 desc. node 8438 Feb 27 21:48 0° ★ max. Earth dist. 8437 Mar 26 06:39 0° ♥ morning set 8438 Mar 03 13:59 5° ★45'49 max. Earth dist. 8437 Apr 05 06:14 15° ♥36'18 1.44678 AU max. Earth dist. 8438 Mar 19 21:28 29° ★52'50 1.45428 AU superior conj 8437 Apr 09 12:45 22° ♥24'32 -2°10'36 superior conj 8438 Mar 19 21:28 1° ♥18'55 -1°52'45 evening rise 8437 Apr 14 05:21 0° ♥ minimum elong 8438 Mar 19 12:40	•							
direct 8437 Feb 19 13:47 16°≈53'52 transit end 8438 Jan 25 15:59 7°≈58'28 morning max el 8437 Feb 26 19:24 20°≈55'11 19°33'33 morning rise 8438 Jan 31 09:25 2°≈17'25 direct 8438 Feb 03 12:33 1°≈21'44 morning max el 8437 Mar 06 06:02 0° ★ direct 8438 Feb 03 12:33 1°≈21'44 greatest brilliancy 8437 Mar 11 12:54 7° ₩34'56 -0.7m morning max el 8438 Feb 10 04:57 4°≈59'28 18°42'15 desc. node 8437 Mar 13 20:53 11° ₩03'07 8438 Feb 27 21:48 0° ₩ morning set 8437 Mar 24 00:57 26° ₩32'45 desc. node 8438 Feb 28 17:48 1° ₩18'21 8437 Mar 26 06:39 0° Ψ morning set 8438 Mar 03 13:59 5° ₩45'49 max. Earth dist. 8437 Apr 05 06:14 15° Ψ36'18 1.44678 AU max. Earth dist. 8438 Mar 19 01:19 0° Ψ superior conj 8437 Apr 09 12:45 22° Ψ24'32 -2°10'36 minimum elong 8437 Apr 09 10:03 22° Ψ13'45 2°10'37 superior conj 8438 Mar 19 21:28 1° Ψ18'55 -1°52'45 evening rise 8438 Apr 04 07:45 25° Ψ45'21 €	_							
morning max el 8437 Feb 26 19:24 8437 Mar 06 06:02 0° ★ direct 20°≈55'11 19°33'33 morning rise direct 8438 Jan 31 09:25 2°≈17'25 state direct 2°≈17'25 state direct 8438 Feb 03 12:33 1°≈21'44 state direct 2°≈17'25 state direct 8438 Feb 03 12:33 1°≈21'44 state direct 8438 Feb 03 12:33 1°≈21'44 state direct 8438 Feb 10 04:57 4°≈59'28 18°42'15 4°≈59'28 18°42'15 18°42'15 state disc. node 8438 Feb 27 21:48 0° ★ state disc. node 8438 Feb 27 21:48 0° ★ state disc. node 8438 Feb 28 17:48 1° ★18'21 state disc. node 8438 Mar 03 13:59 5° ★45'49 state disc. node 8438 Mar 03 13:59 5° ★45'49 state disc. node norning set 8438 Mar 10 11:19 0° ♀ state disc. node norning set 8438 Mar 10 01:19 0° ♀ state disc. node norning set 8438 Mar 10 01:19 0° ♀ state disc. node norning set 8438 Mar 10 01:19 0° ♀ state disc. node norning set 8438 Mar 10 01:19 0° ♀ state disc. node norning set 8438 Mar 10 01:19 0° ♀ state disc. node norning set 8438 Mar 10 01:19 0° ♀ state disc. node norning set 8438 Mar 10 01:19 0° ♀ state disc. node norning set 8438 Mar 10 01:19 0° ♀ state disc. node norning set 8438 Mar 10 01:19 0° ♀ state disc. node norning set 8438 Mar 10 01:19 0° ♀ state disc. node norning set 8438 Mar 10 01:19 0° ♀ state disc. node norning set 8438 Mar 10 01:19 0° ♀ state disc. node norning set 8438 Mar 10 01:19 0° ♀ state disc. node norning set 8438 Mar 10 01:19 0° ♀ state disc. node norning set 8438 Mar 10 01:19 0° ♀ state disc. note d	•				•			
8437 Mar 06 06:02 0° ★ direct 8438 Feb 03 12:33 1°≈21'44 greatest brilliancy 8437 Mar 11 12:54 7° ★34'56 -0.7m morning max el 8438 Feb 10 04:57 4°≈59'28 18°42'15 desc. node 8437 Mar 13 20:53 11° ★03'07 8438 Feb 27 21:48 0° ★ morning set 8437 Mar 24 00:57 26° ★32'45 desc. node 8438 Feb 28 17:48 1° ★18'21 8437 Mar 26 06:39 0° ϒ morning set 8438 Mar 03 13:59 5° ★45'49 max. Earth dist. 8437 Apr 05 06:14 15° ϒ36'18 1.44678 AU max. Earth dist. 8438 Mar 19 01:19 0° ϒ superior conj 8437 Apr 09 12:45 22° ϒ24'32 -2°10'36 minimum elong 8437 Apr 09 10:03 22° ϒ13'45 2°10'37 superior conj 8438 Mar 19 21:28 1° ϒ18'55 -1°52'45 evening rise 8437 Apr 23 09:57 15° ႘14'26 evening rise 8438 Apr 04 07:45 25° ϒ45'21 ### Office of the control of t				19°33'33				
desc. node 8437 Mar 13 20:53 11° ★03'07 8438 Feb 27 21:48 0° ★ morning set 8437 Mar 24 00:57 26° ★32'45 desc. node 8438 Feb 28 17:48 1° ★18'21 max. Earth dist. 8437 Mar 26 06:39 0° ♀ morning set 8438 Mar 03 13:59 5° ★45'49 max. Earth dist. 8437 Apr 05 06:14 15° ♀36'18 1.44678 AU max. Earth dist. 8438 Mar 18 23:30 29° ★52'50 1.45428 AU 8438 Mar 19 01:19 0° ♀ superior conj 8437 Apr 09 12:45 22° ♀24'32 -2°10'36 superior conj 8438 Mar 19 21:28 1° ♀18'55 -1°52'45 1° 52'45 minimum elong 8437 Apr 09 10:03 22° ♀13'45 2°10'37 superior conj 8438 Mar 19 21:28 1° ♀18'55 -1°52'45 1° 52'45 1° 52'45 evening rise 8437 Apr 23 09:57 15° ★14'26 evening rise 8438 Apr 04 07:45 25° ♀45'21	S				•		1° ≈ 21'44	
desc. node 8437 Mar 13 20:53 11° ★03'07 8438 Feb 27 21:48 0° ★ morning set 8437 Mar 24 00:57 8432'45 desc. node 8438 Feb 28 17:48 1° ★18'21 max. Earth dist. 8437 Apr 26 06:39 0° ♥ morning set 8438 Mar 03 13:59 5° ★45'49 max. Earth dist. 8437 Apr 05 06:14 15° ♥36'18 1.44678 AU max. Earth dist. 8438 Mar 18 23:30 29° ★52'50 1.45428 AU 8438 Mar 19 01:19 0° ♥ superior conj 8437 Apr 09 12:45 22° ♥24'32 -2°10'36 22° ♥13'45 2°10'37 superior conj 8438 Mar 19 21:28 1° ♥18'55 -1°52'45 0° № minimum elong 8437 Apr 14 05:21 0° ♥ minimum elong 8438 Mar 19 12:40 0° ♥44'27 1°52'05 evening rise 8437 Apr 23 09:57 15° ₺14'26 evening rise 8438 Apr 04 07:45 25° ♥45'21	greatest brilliancy			-0.7m				18°42'15
max. Earth dist. 8437 Mar 26 06:39 0°Υ morning set max. Earth dist. 8438 Mar 03 13:59 5° ¥45'49 5° ¥45'49 max. Earth dist. 8437 Apr 05 06:14 15° Y36'18 1.44678 AU max. Earth dist. max. Earth dist. max. Earth dist. 8438 Mar 18 23:30 29° ¥52'50 1.45428 AU 29° ¥52'50 1.45428 AU superior conj minimum elong minimum elo	desc. node	8437 Mar 13 20:53	11°) €03'07		-	8438 Feb 27 21:48	0° ∀	
max. Earth dist. 8437 Apr 05 06:14 15°γ36'18 1.44678 AU max. Earth dist. 8438 Mar 18 23:30 8438 Mar 18 23:30 8438 Mar 19 01:19 29°χ52'50 1.45428 AU 8438 Mar 19 01:19 superior conj 8437 Apr 09 12:45 22°γ24'32 -2°10'36 superior conj 8438 Mar 19 21:28 1°γ18'55 -1°52'45 minimum elong 8437 Apr 14 05:21 0°8 minimum elong 8438 Mar 19 12:40 0°γ44'27 1°52'05 evening rise 8437 Apr 23 09:57 15°814'26 evening rise 8438 Apr 04 07:45 25°γ45'21	morning set	8437 Mar 24 00:57			desc. node	8438 Feb 28 17:48	1°) 18′21	
superior conj 8437 Apr 09 12:45 22°Υ24'32 -2°10'36 minimum elong 8437 Apr 09 10:03 22°Υ13'45 2°10'37 superior conj 8438 Mar 19 21:28 1°Υ18'55 -1°52'45 evening rise 8437 Apr 23 09:57 15°814'26 evening rise 8438 Apr 04 07:45 25°Υ45'21		8437 Mar 26 06:39			morning set	8438 Mar 03 13:59	5°) 45′49	
superior conj 8437 Apr 09 12:45 22°Y24'32 -2°10'36 minimum elong 8437 Apr 09 10:03 22°Y13'45 2°10'37 superior conj 8438 Mar 19 21:28 1°Y18'55 -1°52'45 8437 Apr 14 05:21 0°8 minimum elong 8438 Mar 19 12:40 0°Y44'27 1°52'05 evening rise 8437 Apr 23 09:57 15°814'26 evening rise 8438 Apr 04 07:45 25°Y45'21	max. Earth dist.	8437 Apr 05 06:14	15° Y 36'18	1.44678 AU	max. Earth dist.	8438 Mar 18 23:30	29° ¥ 52'50	1.45428 AU
minimum elong 8437 Apr $09\ 10:03$ 22° Y $13'45$ $2^{\circ}10'37$ superior conj 8438 Mar $19\ 21:28$ 1° Y $18'55$ $-1^{\circ}52'45$ 8437 Apr $14\ 05:21$ 0° 8 minimum elong 8438 Mar $19\ 12:40$ 0° Y $14'27$ $1^{\circ}52'05$ evening rise 8437 Apr $13\ 09:57$ 15° 8 evening rise 8438 Apr $13\ 09:57$ 15° 9 evening rise 8438 Apr $13\ 09:57$						8438 Mar 19 01:19	0° Y	
8437 Apr 14 05:21 0°8 minimum elong 8438 Mar 19 12:40 0°\psi 44'27 1°52'05 evening rise 8437 Apr 23 09:57 15°\begin{array}{c c c c c c c c c c c c c c c c c c c	superior conj	8437 Apr 09 12:45	22° Y °24'32	-2°10'36				
evening rise 8437 Apr 23 09:57 15°814'26 evening rise 8438 Apr 04 07:45 25°945'21	minimum elong	8437 Apr 09 10:03		2°10'37	superior conj	8438 Mar 19 21:28		-1°52'45
		8437 Apr 14 05:21	0° 8		minimum elong	8438 Mar 19 12:40		1°52'05
8437 May 02 06:31 0°II 8438 Apr 06 23:13 0°B	evening rise	*			evening rise	•		
		8437 May 02 06:31	$\Pi^{\circ}0$			8438 Apr 06 23:13	0°8	

greatest brilliancy	8438 Apr 11 18:11	7° 8 40'20	-0.9m	minimum elong	8439 Feb 26 19:10	9°) 39'55	1°16'02
asc. node	8438 Apr 23 01:11	24° 8 17'26		max. Earth dist.	8439 Mar 01 19:00	14°) 22'19	1.45444 AU
evening max el	8438 Apr 25 11:58	27° 8 02'28	18°42'59		8439 Mar 11 19:37	$0^{\circ}\mathbf{Y}$	
-	8438 Apr 29 08:56	$\Pi^{\circ}0$		evening rise	8439 Mar 15 07:44	5° Y 26′17	
retrograde	8438 May 02 02:48	0° Ⅱ 41′03		greatest brilliancy	8439 Mar 27 22:59	24° Y 51'13	-0.7m
	8438 May 04 19:04	30° ₹ 8			8439 Mar 31 10:49	0° 8	
evening set	8438 May 05 09:03	29° 8 40'20		evening max el	8439 Apr 08 19:37	10° 8 39'20	19°27'51
inferior conj	8438 May 11 00:12	24° 8 02'09	3°21'42	asc. node	8439 Apr 09 22:17	11° 8 43'25	
minimum elong	8438 May 11 00:46	24° 8 00'25	3°21'32	retrograde	8439 Apr 15 23:52	14° 8 44'13	
min. Earth dist.	8438 May 12 21:51	21° 8 42'00	0.65461 AU	evening set	8439 Apr 19 14:11	13° 8 28'38	
morning rise	8438 May 16 15:48	17° 8 44'25		inferior conj	8439 Apr 25 00:15	7° 8 35'22	3°21'04
direct	8438 May 23 04:34	14° 8 57'41		minimum elong	8439 Apr 24 23:35	7° 8 37'32	3°20'56
desc. node	8438 May 27 17:31	16° 8 04'49		min. Earth dist.	8439 Apr 26 06:46	5° 8 55'11	0.66867 AU
morning max el	8438 Jun 05 11:10	22° 8 49'02	26°56'04	morning rise	8439 Apr 30 08:38	1° 8 17'17	
	8438 Jun 11 19:15	$\Pi^{\circ}0$			8439 May 02 00:19	30° ₹Ƴ	
	8438 Jul 02 00:05	0ං ව		direct	8439 May 06 11:41	28° Y 34'23	
morning set	8438 Jul 11 04:46	16° © 38'39			8439 May 11 10:21	0°8	
max. Earth dist.	8438 Jul 15 12:22	25°507'48	1.33985 AU	desc. node	8439 May 14 14:31	2° 8 07'04	
	8438 Jul 17 21:42	0 ° Ω		morning max el	8439 May 18 21:05	5° 8 59'20	25°45'29
	0420 1 1 10 17 77	3° Ω 49'47	0000143		8439 Jun 06 09:45	0°П	
superior conj	8438 Jul 19 17:57			morning set	8439 Jun 23 23:59	29° Ⅱ 14'35	
minimum elong	8438 Jul 19 18:06	3° Ω 50'35 3° Ω 21'15	0°02'51	may Earth dist	8439 Jun 24 09:53	0°©	1.35715 AU
behind sun begin behind sun end	8438 Jul 19 12:29 8438 Jul 19 23:43	$4^{\circ}\Omega 19'58$		max. Earth dist.	8439 Jun 27 18:00	6° © 15'10	1.33/13 AU
asc. node	8438 Jul 20 00:22	4°Ω23'23		superior conj	8439 Jul 03 11:06	17° © 27'41	0.331/13
evening rise	8438 Jul 27 02:36	19° Ω 23'17		minimum elong	8439 Jul 03 13:06	17°52741	
evening rise	8438 Aug 01 08:05	0° m		asc. node	8439 Jul 06 21:23	24°\$26'27	0 33 31
evening max el	8438 Aug 16 02:47	22° Mp 07'43	21°30'58	asc. node	8439 Jul 09 14:11	0°Ω	
desc. node	8438 Aug 23 16:32	27° mp 19'35	21 30 30	evening rise	8439 Jul 11 09:33	3° Ω 42'47	
retrograde	8438 Aug 28 09:26	28° mp 12'58		evening rise	8439 Jul 26 13:19	0° m)	
evening set	8438 Aug 30 23:10	27° m 57'52		evening max el	8439 Jul 29 07:12	3° Mp 02'56	20°09'51
inferior conj	8438 Sep 09 04:05	23° m 59'53	-4°31'43	retrograde	8439 Aug 08 22:34	8° mp 18'14	
minimum elong	8438 Sep 08 18:42	24° m 13'01	4°29'28	evening set	8439 Aug 10 20:51	8° mp 08'39	
min. Earth dist.	8438 Sep 09 04:04	23° m 59'54	0.54701 AU	desc. node	8439 Aug 10 13:37	8° m) 11'23	
morning rise	8438 Sep 17 15:10	20° m 09'04		inferior conj	8439 Aug 19 22:54	4° m) 10'11	-2°49'26
direct	8438 Sep 21 05:58	19° m 40'40		minimum elong	8439 Aug 19 15:15	4° m/21'32	2°46'49
morning max el	8438 Oct 03 17:08	25° m 34'59	22°13'18	min. Earth dist.	8439 Aug 21 14:21	3° m 11'44	0.54979 AU
	8438 Oct 07 19:52	0∘ 亚		morning rise	8439 Aug 28 08:28	29° Ω 58'53	
asc. node	8438 Oct 16 00:04	12° ≏ 02'31			8439 Aug 28 07:02	30° R Ω	
morning set	8438 Oct 25 06:22	0°ML01'15		direct	8439 Sep 01 17:04	29° Ω 17'47	
	8438 Oct 25 06:08	0° M.			8439 Sep 06 01:09	0° ™	
				morning max el	8439 Sep 15 06:41	5° m 55'54	23°58'54
superior conj	8438 Nov 01 08:48	15°M08'01	1°41'01		8439 Oct 02 08:04	0∘ ⊽	
minimum elong	8438 Nov 01 09:10	15°M09'59	1°41'08	asc. node	8439 Oct 02 21:02	1° ≏ 00'25	
max. Earth dist.	8438 Nov 05 00:06	22°M42'44	1.34316 AU	morning set	8439 Oct 09 18:06	14° ≏ 51'28	
	8438 Nov 08 15:20	0°⊀					
evening rise	8438 Nov 09 11:38	1° ≯ 38'50		superior conj	8439 Oct 16 15:56	29° Ω 50'15	
desc. node	8438 Nov 19 15:19	19° ₹ 57'53		minimum elong	8439 Oct 16 15:07	29° Ω 45'53	1°39'49
	8438 Nov 25 22:16	0°る	2700011.4	n d r	8439 Oct 16 17:43	0°M	1 22000 441
evening max el	8438 Dec 14 10:15	23°₹26'45	2/00014	max. Earth dist.	8439 Oct 18 23:14	4°M48'23	1.32988 AU
retrograde	8438 Dec 23 18:35 8438 Dec 27 17:04	0° ≈ 0° ≈ 46'48		evening rise	8439 Oct 24 03:18 8439 Oct 31 17:00	15° ™ 34'05 0° ₹	
remograde	8438 Dec 31 09:39	0 ≈4048 30°Rる		desc. node	8439 Nov 06 12:24	9° ∡ ¹55'35	
evening set	8439 Jan 03 08:56	28°る10'59		desc. Hode	8439 Nov 20 15:56	0°る	
min. Earth dist.	8439 Jan 07 08:15		0.65530 AU	evening max el	8439 Nov 26 22:38		27°26'50
inferior conj	8439 Jan 09 10:02	21° ප 56'48		retrograde	8439 Dec 10 13:46	14° る 05'56	27 2030
minimum elong	8439 Jan 09 11:32	21°පි52'31	0°50'42	evening set	8439 Dec 17 13:38	11°る32'49	
asc. node	8439 Jan 11 23:26	19° る 09'50		min. Earth dist.	8439 Dec 21 08:14	8°る12'53	0.63916 AU
morning rise	8439 Jan 15 15:20	16° る 21'11		inferior conj	8439 Dec 23 21:25	5° ට 34'59	
direct	8439 Jan 18 09:10	15° る 40'24		minimum elong	8439 Dec 24 01:07	5° る 25'23	
morning max el	8439 Jan 24 19:43	19° る 05'46	18°07'29	asc. node	8439 Dec 29 20:29	0° る 34'31	* *
5	8439 Feb 02 02:10	0° ≈		morning rise	8439 Dec 30 14:20	0° る 14'09	
morning set	8439 Feb 12 07:46	16° ≈ 26'07		- C	8439 Dec 31 06:40	30°R. ✓	
desc. node	8439 Feb 15 14:45	21° ≈ 47'06		direct	8440 Jan 02 01:01	29° х 44′25	
	8439 Feb 20 17:07	0°) €			8440 Jan 03 19:13	0°ಕ	
				morning max el	8440 Jan 08 12:58	3° る 07'09	17°49'54
superior conj	8439 Feb 27 03:47	10° ₩ 13'55	-1°17'08	morning set	8440 Jan 25 05:26	28° පි 28'16	

Map	desc. node	8440 Jan 26 02:56 8440 Feb 02 11:43	0°≈ 12°≈25'14		superior conj minimum elong behind sun begin	8441 Jan 18 01:32 8441 Jan 18 02:26 8441 Jan 17 19:25	0°≈56'24 1°≈00'14 0°≈30'20	0°09'35 0°09'36
max Farth Mail 4440 Fact 1 2 1411 258-885 M 1,472.9 AU max Farth fact 3441 Fact 1 6 00 234 0°C 2746 Care 1 6 00 00 7 M centing rise 8441 Fact 6 0 00 234 0°C 2746 Care 1 6 00 00 00 7 M 2840 Mar of 21 220 2476 May 1 6 00 234 0°C 2740 May 1 2 200 2775 May 1 2 00 00 00 00 00 00 00 00 00 00 00 00 0	superior conj	8440 Feb 07 02:08	19° ≈ 58'43	-0°33'03	behind sun end	8441 Jan 18 09:27	1° ≈ 30'04	
Second S	Č							
Second S	max. Earth dist.			1.44729 AU				1.43355 AU
Secondam max of secondam max					evening rise			
Secondary Seco	evening rise							
Sec Med May 12 Med M	ovening may al			20027125	avaning may al		• •	21020102
Serving and S440 Am 29 22-22 28*P/S875 serving set S440 Am 20 21-43 27*P/27*8 serving set S440 Am 20 65-22 21*P/21*10 39888 inferior conj S440 Am 20 61-22 22*P/21*10 39888 inferior conj S440 Am 20 61-22 22*P/21*10 39888 inferior conj S440 Am 20 61-22 22*P/21*10 39888 inferior conj S440 Am 20 61-22 22*P/21*20 inc. Earth dist. S440 Am 20 61-22 21*P/21*20 inc. Earth dist. S440 Am 20 61-22 21*P/21*20 inc. Earth dist. S440 Am 20 61-23 inc. Ear	•			20 27 33	C			21 39 03
Seeming set A440 Apr 10. 21-34 27*P\ 27*P\ 37*P\ 37*P					•			
inferior corigination correctly corr	•		27° Y 27'48		evening set		11° Y ′33'55	
nin. Earth dist 8440 April 30 21-34 20°PZ210 0.67827 AU min. Earth dist 8411 Mar 2 1 16-14 \$"0*031 0.6838 AU direct 8440 April 30 002 12°PS270 morning fries 8441 Mar 2 16-16 29°H0055 certification 20°H0055 certification 6441 Mar 2 16-16 29°H0055 certification 20°H0055 certification 8441 Mar 2 16-16 29°H0055 certification 20°H0055 certification 8441 Mar 1 16-10 20°H0055 certification 20°H0055 certification 8441 Mar 1 16-10 20°H0075 certification security 8441 Mar 1 16-10 0°B 140066 20°H0075 certification 8441 Mar 1 16-10 0°B 140066	•	•	21° Y 21'10	3°08'08	inferior conj	8441 Mar 23 13:16	5° Υ 16'25	2°44'50
Monthing risk Mot Apr 19 0037 15°P0'09' morning risk Mot Apr 19 0002 12°P0'35' morning risk Mot Apr 30 0131 19°P0'330' direct Mot Apr 30 06'11 morning max Mot Apr 30 06'11 19°P0'330' direct Mot Apr 30 06'11 morning max Mot Apr 30 08'12 20°P0' Mot Apr 30 08'12 Mo	minimum elong	8440 Apr 08 03:46	21° Y 26'35	3°07'51	minimum elong	8441 Mar 23 11:09	5° Y 23'49	2°44'19
direct 8440 Apr 19 00.02 12°9°3530 moming max 8441 Apr 20 16.47 26°¥6735 27°1075 27°2076 direct 8441 Apr 20 16.47 26°¥6730 27°2076 27°2076 28°41 Apr 10 2 16.47 26°¥530 27°2076 28°40 Apr 20 06.11 19°1935 24°2016 moming max 8441 Apr 10 16.20 2°°40747 2°°5029 2°°6004 3441 Apr 10 16.40 2°°70074 2°°5029 2°°6004 3441 Apr 10 16.20 2°°70074 2°°5029 2°°70074 2°°5029 2°°70074 2°°5029 1°°5049 3°°5029 3°°70004 3°°70004 3°°70004 3°°70004 3°°70004 3°°70004 3°°70004 3°°70004 3°°70004 3°°70004 3°°70004 3°°70004 3°°8040 Apr 10 10 10 10 10 10 10 10 10 10 10 10 10	min. Earth dist.	8440 Apr 08 21:43		0.67827 AU	min. Earth dist.	8441 Mar 23 16:41	5° Y 04'31	0.68336 AU
Sees. node	morning rise	-				8441 Mar 27 16:54	*	
morning max el 8440 Apr 3 0 6c.11 19°P1'935 24°20'16 4841 Apr 10 14.2 0°P' 27°4747 2°50'26 8440 May 20 13.03 0°II morning max el 8441 Apr 17 08.20 27°4747 2°50'26 morning set stand May 20 13.03 0°II desc. node 8441 Apr 17 08.20 27°4747 2°50'26 morning set stand May 20 13.03 0°II morning set stand May 20 13.03 0°II 8441 May 16 23.51 27°2473 12°249 10°80'8 14°06'80'8 10°10'80'80'8 10°10'80'8 10°10'80'8 10°10'80'8 10°10'80'8 10°10'80'8 10°10'8		1			•			
May May 09 07:23 0°E		*			direct	-		
Many May 19 130 10 10 10 10 10 10 1	morning max el	-		24°20'16		•		22050120
max		•				•		22°50'29
max. Earth dist. 444 Jun 16 10:30 0° 17 I I 22:41 1.37814 AU max. Earth dist. 4441 Jun 16 20:30 20° 20° 20° 20° 1 A0066 AU superior conj 8440 Jun 15 16:33 0° 20° 20° 1 - 1° 0542 superior conj 8441 Jun 2° 06:48 12° II 40° 5 - 1° 35° 48 1° 20° 20° 1 - 1° 0542 superior conj 8441 Jun 2° 06:48 12° II 40° 5 - 1° 35° 48 1° 35° 16	morning set	•			desc. node	-		
Superior conj	•			1 37814 AU	morning set	•		
superior conj 8440 Jun 15 16-43 0°\$2970 1°0542 superior conj 8441 Jun 22 00-45 0°\$1847 1°0512 superior conj 8441 Jun 29 06-45 12°\$1455 1°3548 asc. node 8440 Jun 22 18-24 14°\$22706 minimum elong 8441 Jun 29 06-45 12°\$1455 1°3548 evening rise 8440 Jun 30 20-42 10°34 14°\$2020 evening rise 8441 Jun 08 02:55 1°25113 evening max el 8440 Jun 19 03-34 14°\$4200 19°0839 asc. node 8441 Jun 09 15:26 4°\$20627 evening set 8440 Jun 19 23:34 19°\$08724 evening max el 8441 Jun 19 16:26 2°*260152 18°2871 desc. node 8440 Jul 21 21:31 18°\$0.5716 evening set 8441 Jul 19 03:30 0°\$26 18°2871 inficiror conj 8440 Jul 30 07:58 14°\$4.9407 0°\$302 evening set 8441 Jul 10°3 23:30 0°\$26 18°2870 inficiror conj 8440 Jul 30 07:58 12°\$4.0400 0°\$516 12°\$4.0500 4441 Jul 10°3 23:30 0°\$8284 direct 8440 Neg 10 00:50 12°\$4.0500 5°\$6.6143 4441 Jul 10°\$4.000	max. Lartii dist.			1.57014710	•			1.40066 AU
superior conj 8440 Jun 15 16.43 0°952910 -1°0542 superior conj 8441 Jun y2 06.45 12°14455 -1°3548 asc. node 8440 Jun 22 18:24 14°952206 minimum clong 8441 May 29 16:25 13°11048 1°35'16 evening rise 8440 Jun 21 10 034 17°54176 evening rise 8441 Jun 07 11:33 0°25 evening max el 840 Jul 10 034 14°82200 19°839 asc. node 8441 Jun 09 15:26 4°26027 evening max el 8440 Jul 10 23:34 19°2054 evening set 8441 Jun 09 15:26 4°26027 evening set 8440 Jul 21 21:31 18°363716 8441 Jun 10 10:55 0°26059 desc. node 8440 Jul 30 07:58 14°424507 0°5302 evening set 8441 Jul 01 19:55 0°26059 mini Earth dist 8440 Aug 10 05:50 14°424507 0°5216 inferior conj 8441 Jul 10 11 16:14 20°2033 0°4222 mini Earth dist 8440 Aug 10 10:50 0°54.5843 mini Earth dist 8440 Aug 11 14:14 0°40 23°25221 0°47.22 asc. node 8440 Sep 20 0								
asc. node 8440 Jun 22 18:24 14'\$\frac{9}{2}\$ 12'\$ 18:24 14'\$\frac{9}{2}\$ 22'06 minimum elong 8441 Jun 07 11:33 00:24 0'\$\frac{9}{2}\$ 13'\$\$\frac{1}{1}\$ 10'\$ 19'\$\frac{9}{2}\$ 13'\$\frac{1}{1}\$ 10'\$ 10'\$\frac{9}{2}\$ 10'\$\frac{9}{2}\$ 11'\$\frac{9}{2}\$ 11'\$	superior conj	8440 Jun 15 16:43	0° 5 29'10	-1°05'42		,		
evening risse 8440 Jun 3d 20.3d 17°92H2°6 cvening max elevening max elevening max elevening max elevening max el 8440 Jul 11 00.3d 14°4042°0 19°0399 asc. node 8441 Jun 09 15.26 4°9206172 1°201733 1°201733 <th< td=""><td>minimum elong</td><td>8440 Jun 15 20:48</td><td>0°5548'47</td><td>1°05'12</td><td>superior conj</td><td>8441 May 29 06:45</td><td>12°Ⅱ44'55</td><td>-1°35'48</td></th<>	minimum elong	8440 Jun 15 20:48	0°5548'47	1°05'12	superior conj	8441 May 29 06:45	12° Ⅱ 44'55	-1°35'48
cvening max el 8440 Jun 30 20:42 0° Ω evening rise 8441 Jun 0 9 15:26 4° 20027 4° 20027 cvening max el 8440 Jul 1 10 23:44 14° Ω420 19°08'39 asc. node 8441 Jun 0 9 15:26 4° 20027 4° 20027 evening set 8440 Jul 2 12 13:11 18° Ω57716 retrograde 8441 Jul 0 10 19:55 0° Ω 2° 20113 desc. node 8440 Jul 30 07:58 14° Q43770 0°5302 evening are 8441 Jul 0 11 19:55 0° Ω 3334 minimum clong 8440 Jul 30 07:58 14° Q4390 0°5216 minimum clong 8441 Jul 0 11 19:55 20° 20° 3334 0° 48° 22 mini. Earth dist. 8440 Aug 02 03:55 12° Ω5304 0.56161 AU inferior conj 8441 Jul 11 14:14 26° 20528 20° 48° 22 direct 8440 Aug 12 15:13 8° Q56′29 10° 20 minimum clong 8441 Jul 14 07:48 23° 23° 218 0° 40° 23° 23° 23° 23° 23° 23° 23° 23° 23° 23	asc. node	8440 Jun 22 18:24	14° © 22'06		minimum elong	8441 May 29 12:25	13° Ⅱ 10'48	1°35'16
Sevening max el 8440 Jul 11 00:34 14° \$\tilde{Q} 200 19°08'39 3sc. node 8441 Jun 24 01:46 27°\$\tilde{Q} 27°\$\tilde{Q} 27'\$\tilde{Q} 27	evening rise	8440 Jun 24 10:34	17° 5 341'26			8441 Jun 07 11:33	0 \circ \odot	
Petrograde 8440 Jul 9 23:54 19° \$08°24 evening max el 8441 Jun 24 04:16 07° \$01'52 08°28'17 evening set 8440 Jul 27 10.44 16° \$373'20 retrograde 8441 Jul 01 19:55 0° \$0°\$50'30'20 retrograde 8441 Jul 01 19:55 0° \$0°\$50'33'46 retrograde 8441 Jul 05 23:32 0° \$0°\$33'46 retrograde 8441 Jul 05 23:32 0° \$0°\$33'46 retrograde 8441 Jul 10 14:14 10 14:14 retrograde 8440 Jul 10 10:55 25° \$25'85'52 0° \$10°\$30'36 retrograde 8441 Jul 11 14:14 26° \$26° \$20'13 0° \$48'22 retrograde 8440 Jul 14 07:48 23° \$25° \$25'85'52 0° \$47'36 retrograde 8440 Jul 14 07:48 23° \$25° \$25'85'52 0° \$47'36 retrograde 8440 Jul 14 07:48 23° \$25° \$25'85'52 0° \$47'36 retrograde 8440 Jul 14 07:48 23° \$25° \$25'85'52 0° \$47'36 retrograde 8440 Jul 14 07:48 23° \$25° \$25'85'52 0° \$47'36 retrograde 8440 Jul 14 07:48 23° \$25° \$25'85'52 0° \$47'36 retrograde 8440 Jul 14 07:48 23° \$25° \$25'85'52 0° \$47'36 retrograde 8440 Jul 14 07:48 23° \$25° \$25'85'52 0° \$47'36 retrograde 8440 Jul 14 07:48 23° \$25° \$25'85'52 0° \$47'36 retrograde 8440 Jul 14 07:48 23° \$25° \$25'85'52 0° \$47'36 retrograde 8440 Jul 14 07:48 23° \$25° \$25'85'52 0° \$10° \$25° \$25'85'52 0° \$25° \$25'85'52 0° \$25° \$25'85'52 0° \$25° \$25'85'52 0° \$25° \$25'85'52 0° \$25° \$25'85'52 0° \$25° \$25'85'52 0° \$25° \$25'85'52 0° \$25° \$25'85'52 0° \$25° \$25'85'52 0° \$25° \$25'85'52 0° \$25° \$25'85'52 0° \$25° \$25'85'52 0° \$25° \$25'85'52 0° \$25° \$25° \$25'85'52 0° \$25° \$25'85'52 0° \$25° \$25'85'52 0° \$25° \$25° \$25° \$25° \$25° \$25° \$25° \$25		8440 Jun 30 20:42			•			
cevening set 8440 Jul 21 21:31 18°Д5716 retrograde 8441 Jul 01 19:55 0°Д50759 retrograde 8441 Jul 01 25:55 0°Д50759 retrograde 8441 Jul 01 23:32 0°Д3146 retrograde 8441 Jul 03 23:32 0°Д3146 retrograde 8441 Jul 03 23:32 0°Д3146 retrograde 8441 Jul 05 14:00 30°R© retrograde 8441 Jul 05 14:00 30°R© retrograde 8441 Jul 11 14:14 26°B0213 0°48°22 retrograde 8441 Jul 11 14:14 26°B0213 0°48°22 retrograde 8440 Aug 07 10:50 9°Д5843 retrograde 8441 Jul 11 15:55 25°S5852 0°4736 retrograde 8440 Aug 26 19:30 16°Д1020 25°4007 minimum elong 8441 Jul 14 07:48 23°S52511 retrograde 8440 Sep 18 18:00 20°₱Д3876 retrograde 8441 Jul 14 22:00 23°S3118 0.58020 AU retrograde 8440 Sep 23 05:20 29°₱Д3876 retrograde 8440 Sep 23 05:20 29°₱Д3876 retrograde 8440 Sep 30 02:20 14°Д3978 retrograde retrograde 8440 Sep 30 02:20 29°₱Д3878 retrograde retrograde 8440 Sep 30 02:20 29°₱Д3978 retrograde 8440 Sep 30 02:20 30°Д3978 retrograde 8440 Sep 30°Д3978 retrograde 8440 Sep 30°Д3978 retr	•			19°08'39				
desc. node 8440 Jul 27 10.44 16°β.37°20 retrograde 8441 Jul 01 19.55 0°β.250′59 rinferior conj 8440 Jul 03 05.58 14°β.490′1 0°52′16 retrograde 8441 Jul 03 23.32 0°β.033′46 retrograde 8440 Jul 05 14.00 0°β.25′16 retrograde 8441 Jul 05 14.00 0°β.25′16 retrograde 8441 Jul 11 14.11 26°£02′13 0°48′22 retrograde 8440 Jul 07 19.50 0°β.25′16 retrograde 8441 Jul 11 14.55 25°£9.58′52 0°47′36 direct 8440 Jul 07 19.50 0°β.25′16 retrograde 8440 Jul 11 15.55 25°£9.58′52 0°47′36 direct 8440 Jul 11 15.55 25°£9.58′52 0°47′36 direct 8440 Jul 11 15.55 25°£9.58′52 0°47′36 direct 8440 Jul 11 14.55 25°£9.58′52 0°47′36 direct 8440 Jul 14 0°54 23°£9.25′1 retrograde 8440 Sep 18 18.00 20°£0.24′17 direct 8441 Jul 14 0°54 23°£9.25′1 retrograde 8440 Sep 23 0°52 29°£9.88′06 retrograde 8441 Jul 14 0°54 23°£9.25′1 retrograde 8440 Sep 30 0°35 29°£9.88′06 retrograde 8441 Jul 14 0°54 23°£9.25′1 retrograde 8440 Sep 30 0°30 29°£9.88′06 retrograde 8441 Jul 14 0°54 20°£9.07′37 26°59′55 retrograde 8440 Sep 30 0°30 14°£9.39′26 1°32′36 asc. node 8441 Sep 10 11 14.50 0°£0 retrograde 8440 Sep 30 0°30 14°£9.39′26 1°32′36 asc. node 8441 Sep 10 11 14.50 0°£0 retrograde 8440 Sep 30 0°30 29°£9.51′12 superior conj superior conj 8440 Sep 30 0°30 29°£9.51′12 superior conj 8441 Sep 14 14.55 29°£9.25′2 1°20′02 retrograde 8440 Sep 30 0°35 29°£9.25′2 retrograde 8440 Sep 30 0°36 29°£9.31′12 superior conj 8441 Sep 14 14.55 29°£9.25′2 1°20′02 retrograde 8440 Sep 30 0°36 38°£9.31′12 superior conj 8441 Sep 14 14.55 29°£9.25′2 1°20′02 retrograde 8440 Sep 30 0°36 38°£9.31′12 superior conj 8441 Sep 14 14.55 29°£9.25′2 1°20′02 1°	•				evening max el			18°28'17
inferior conj 8440 Jul 30 07:58 14°Ad5'07 0°53'02 evening set 8441 Jul 05 14:00 30°82 minimum elong 8440 Jul 30 05:40 14°Ad5'07 0°53'02 evening set 8441 Jul 05 14:00 30°82 min. Earth dist. 8440 Aug 02 03:55 12°A5'03'4 0.5616 IAU inferior conj 8441 Jul 11 14:14 26°20'213 0*82'2 direct 8440 Aug 12 15:13 8%35'629 minimum elong 8441 Jul 14 07.48 23°952'01 0.5802 AU morning max el 8440 Sep 07 00:52 0°0 minimum elong 8441 Jul 19 04:50 20°93'18 0.5802 AU asc. node 8440 Sep 07 00:52 0°0 20°81'816 morning rise 8441 Jul 19 04:50 20°93'18 0.5802 AU morning set 8440 Sep 07 00:52 0°9 25°80'85 morning rise 8441 Jul 19 04:50 20°93'18 26°59'55 superior conj 8440 Sep 07 00:52 0°2 29°81'816 morning rise 8441 Jul 19 04:50 0°9 0°9 0°3 0°3 0°9 0°3 0°3 0°9 0°9 0°3 0°3	•							
minimum elong 8440 Jul 30 05:40 14° Ω49'01 0°52'16 Earth dist 8441 Jul 05 14:00 30° № 2 min. Earth dist. 8440 Aug 07 10:50 9° Ω58'43 0.56161 AU minimum elong 8441 Jul 11 14:14 26°®02'13 0°48'22 direct 8440 Aug 12 15:13 8° Ω56'29 desc. node 8441 Jul 14 10:44 23°®52'01 0°47'36 morning max el 8440 Aug 26 19:30 16° Ω10'20 25°40'07 min. Earth dist. 8441 Jul 14 2:50 23°®52'01 0°20°30'19 asc. node 8440 Sep 18 18:00 20° № 24'07 direct 8441 Jul 19 04:50 20°®39'19 20°83'19 superior conj 8440 Sep 30 30:29 29° № 38'06 morning max el 8441 Aug 11 14:50 0°6Ω superior conj 8440 Sep 30 30:39 0° € revening max el 8441 Aug 11 14:50 0° € superior conj 8440 Sep 30 00:29 14° ≙39'08 1°32'36 asc. node 8441 Sep 15 14:40 1.6' № 16'16'19' 2° № 17'32' 2°59'55'5 max. Earth dist. 8440 Oct 07 05:10 0° № morning rise 8441 Sep 14 14:40<				0°53'02	Č			
min. Earth dist. 8440 Aug 02 03:55 12° 05034 0.56161 AU minferior conj 8441 Jul 11 14:14 26° 20° 213 0°48′ 22 0°47′ 36 0°48′ 22 0°47′ 36 0°48′ 22 0°47′ 36 0°48′ 24 0°48′ 24 0°48′ 24 0°48′ 24 0°48′ 25 0°47′ 36 0°48′ 24 0°48′ 24 0°48′ 25 0°48′ 36 0°48′ 24 0°48′ 24 0°48′ 25 0°48′ 36 0°48′ 25 0°48′ 36 0°48′ 24 0°48′ 25 0°48′ 36 0°48′ 25 0°48′ 36 0°48′ 25 0°48′ 36 0°48′ 25 0°48′ 36 0°48′ 25 0°48′ 36 0°48′ 25 0°48′ 36 0°48′ 25 0°48′ 36 0°48′ 25 0°48′ 36 0°48′ 25 0°48′ 36 0°48′ 25 0°48′ 36 0°48′ 25 0°48′ 36 0°48′ 25 0°48′ 36 0°48′ 25 0°48′ 36 0°48′ 25 0°48′ 36 0°48′ 25 0°48′ 36 0°48	3		• • • • •		evening set			
morning rise 8440 Aug 07 10:50 9°Ω/58'43 minimum elong 8441 Jul 11 15:55 25°⊕58'52 0°47'36 desc. node 8440 Jul 14 07:48 23°⊕52'01 0.58020 AU 0.58020	•				inferior coni			0°48'22
direct 8440 Aug 12 15:13 8° Ω56′29 desc. node 8441 Jul 14 07:48 23° ∞52′10 25° 40′07 min. Earth dist. 8441 Jul 14 22:50 23° ∞52′11 0.8020 AU 2440 Sep 18 18:00 20° № morning rise 8441 Jul 25 03:56 19° ∞50′73 morning set 8440 Sep 23 05:29 29° № 38′06 morning max el 8441 Aug 11 14:50 0° Ω 18 18:00 0° № 8440 Sep 23 09:35 0° № morning max el 8441 Aug 11 14:50 0° Ω 18 18:00 0° Ω 18 440 Sep 23 09:20 14° № 39′26 1° 32′36 asc. node 8441 Sep 05 14:58 10° № 06′26 10° № morning rise 8440 Sep 30 00:20 14° № 39′26 1° 32′36 asc. node 8441 Sep 05 14:58 10° № 06′26 10° № morning rise 8440 Oct 07 03:28 29° № 51′12 12° № 10° № morning set 8441 Sep 05 14:59 10° № 10° № morning rise 8440 Oct 07 03:28 29° № 51′12 12° № 10° № morning set 8441 Sep 14 14:05 29° № 17′122 18′194 1		0		0.00101110	•			
moming max el 8440 Aug 26 19:30 16° Ω10'20 25°40'07 min. Earth dist. 8441 Jul 14 22:50 23°©23'18 0.58020 AU asc. node 8440 Sep 18 18:00 0° № direct 8441 Jul 19 04:50 20°©39'19 20°©39'19 morning set 8440 Sep 23 05:29 29°№ 88'06 morning max el 8441 Aug 11 14:50 26°©47'37 26°59'55 superior conj 8440 Sep 30 00:20 14° 23'926 1°32'36 asc. node 8441 Sep 16 14:58 10° № 6'26 1°20'02 minimum elong 8440 Sep 30 00:39 14° 23'926 1°32'36 morning set 8441 Sep 17 14:50 10° № 6'26 1°20'02 minimum elong 8440 Sep 30 00:39 14° 23'926 1°32'36 morning set 8441 Sep 17 14:50 10° № 6'26 1°20'02 evening rise 8440 Oct 07 03:28 29° £5'112 superior conj 8441 Sep 14 14:05 20° № 9'02'92'5 1°20'02 desc. node 8440 Oct 23 18:49 0° № max. Earth dist. 8441 Sep 14 16:40 20° № 17'22 1°19'45 evening max el 8440 Nov 20 07:41 10° № 3'40'2		-			desc. node	8441 Jul 14 07:48	23° © 52'01	
Sec. node R440 Sep 18 18:00 20° m24'07 direct R441 Jul 25 03:56 19° 20'73 26° 59'55 R440 Sep 23 05:29 29° m38'06 morning max el R441 Aug 08 13:20 26° 2647'37 26° 59'55 R440 Sep 23 09:35 0° 4 R441 Aug 11 14:50 0° 4 Superior conj R440 Sep 30 02:20 14° 423'08 1°32'36 morning set R441 Sep 05 14:58 10° m06'26 max. Earth dist. R440 Cet 01 05:11 17° 40'720 1.32104 AU evening rise R440 Oct 07 03:28 29° 425'112 superior conj R441 Sep 14 14:05 29° m29'25 1°20'02 R440 Oct 07 05:10 0° m minimum elong R441 Sep 14 11:55 29° m1/722 1°19'45 desc. node R440 Oct 23 09:28 29° 123'58 max. Earth dist. R441 Sep 14 11:55 29° m1/722 1°19'45 desc. node R440 Oct 23 09:28 29° 123'58 max. Earth dist. R441 Sep 14 11:55 29° m1/722 1°19'45 desc. node R440 Oct 23 09:28 29° 123'58 max. Earth dist. R441 Sep 14 19:36 0° 4 evening max el R440 Nov 29 05:34 24° 27° 23'13 evening rise R441 Sep 19 19 19:36 0° 4 retrograde R440 Nov 29 05:34 24° 27° 25'15 desc. node R441 Oct 10 06:32 18° 11:128 min. Earth dist. R440 Dec 02 21:52 21° 27' 34'00 0.62017 AU R441 Oct 10 106:32 18° 11:118 minimum elong R440 Dec 05 21:01 R8° 27'505 3°06'39 retrograde R441 Nov 10 40 8:38 8° 24'44'9 morning rise R440 Dec 15 17:32 13° 27'26'9 retrograde R441 Nov 11 04:42 1° 27'35'35 4°16'43 morning max el R440 Dec 15 17:32 13° 27'26'9 retrograde R441 Nov 15 00:45 1° 27'35'35 4°16'43 morning max el R440 Dec 20 5:31 11:51 0° 27 retrograde R441 Nov 20 06:15 30° 110' 143'33 morning max el R440 Dec 20 5:31 11:51 0° 27 retrograde R441 Nov 20 06:15 30° 110' 143'33 morning max el R440 Dec 31 11:51 0° 27 retrograde R441 Nov 20 06:15 30° 110' 143'33 morning max el R440 Dec 20 5:31 11:51 0° 27 retrograde R441 Nov 20 06:15 30° 110' 143'33 morning max el R440 Dec 20 5:31 11:51 0° 27 retrogra	morning max el	8440 Aug 26 19:30	_	25°40'07	min. Earth dist.	8441 Jul 14 22:50	23° © 23'18	0.58020 AU
Morning set 8440 Sep 23 05:29 29° 1938'06 morning max el 8441 Aug 08 13:20 26° 247'37 26° 59'55 8440 Sep 30 02:35 0° 24 Sep 10 02:20 14° 239'26 1°32'36 asc. node 8441 Sep 05 14:58 10° 106'26 sep 10 02:11 17° 200'72 1.32104 AU sep 11 14:50 29° 11/12 12° 11/14 11/14		8440 Sep 07 00:52	0° m		morning rise	8441 Jul 19 04:50	20° © 39'19	
8440 Sep 23 09:35 0°♣	asc. node	1	20° Mp 24'07				19° © 07'37	
### Superior conj	morning set		-		morning max el	=		26°59'55
Superior conj S440 Sep 30 02:20		8440 Sep 23 09:35	0∘ ⊽			•		
minimum elong max. Earth dist. 8440 Cet 01 05:11 17° 207'20 1.32104 AU evening rise 8440 Cet 07 03:28 29° 251'12 superior conj 8441 Sep 14 14:05 29° 10° 29′ 25 1° 20′ 02 20′ 20′ 20′ 20′ 20′ 20′ 20′ 20′		0440 G 20 02 20	1.40.0.2012.6	1022126	1	-	-	
max. Earth dist. 8440 Oct 01 05:11 17°£07'20 1.32104 AU evening rise 8440 Oct 07 03:28 829°£51'12 superior conj 8441 Sep 14 14:05 29°₹p2'52 1°20'02 8440 Oct 07 05:10 0°™ minimum elong 8441 Sep 14 14:05 29°₹p3'720 1°19'45 desc. node 8440 Oct 23 09:28 29°™.23'58 max. Earth dist. 8441 Sep 14 14:48 29° ₹p3'326 1.31673 AU 8440 Oct 23 18:49 0° ₹ evening max el 8440 Nov 08 07:40 19°₹3'4'02 27°23'13 evening rise 8441 Sep 14 19:36 0° £ retrograde 8440 Nov 22 03:14 26°₹48'08 8441 Sep 29 05:25 0°™ evening set 8440 Nov 29 05:34 24°₹26'51 desc. node 8441 Oct 10 06:32 18°₹L11'28 min. Earth dist. 8440 Dec 02 21:52 21°₹3'4'00 0.62017 AU inferior conj 8440 Dec 05 21:01 18°₹5'051 3°08'57 evening max el 8441 Nov 19 08:38 8₹4'49 vening rise 8440 Dec 13 02:36 13°₹48'19 evening set 8441 Nov 10 06:32 10°₹3'38 ₹7'06 3°06'39 retrograde 8441 Nov 10 06:32 10°₹3'38 ₹7'06 3°06'39 retrograde 8441 Nov 11 04:42 6°₹4'49 vening rise 8440 Dec 15 08:44 13°₹2'602 min. Earth dist. 8441 Nov 18 05:26 1°₹3'53'8 4°16'43 asc. node 8440 Dec 15 17:32 13°₹2'6'39 minimum elong 8440 Dec 22 05:33 16°₹5'510 17°50'13 minimum elong 8441 Nov 18 05:26 1°₹3'5'38 4°16'43 morning max el 8440 Dec 21 11:51 0°₹ morning set 8440 Dec 21 11:51 0°₹ morning set 8441 Nov 20 06:15 30°₹M. morning set 8441 Jan 07 00:36 11°₹3'1'29 morning rise 8441 Nov 20 06:15 30°₹M. morning set 8441 Jan 07 00:36 11°₹3'1'29 morning rise 8441 Nov 20 06:15 30°₹M.	1 3					=		
evening rise					morning set	8441 Sep 07 14.32	14 11/1019	
Seconde Sec				1.52101110	superior coni	8441 Sep 14 14:05	29° m 29'25	1°20'02
Max. Earth dist. Max. Earth	<i>8</i> 11		0°M				~	
evening max el 8440 Nov 08 07:40 19° ₹34'02 27°23'13 evening rise 8441 Sep 21 09:32 14° ₹22'52 retrograde 8440 Nov 22 03:14 26° ₹48'08 8441 Sep 29 05:25 0° € 14° ₹22'52 evening set 8440 Nov 29 05:34 24° ₹26'51 desc. node 8441 Oct 10 06:32 18° € 11'28 min. Earth dist. 8440 Dec 02 21:52 21° ₹34'00 0.62017 AU 8441 Oct 19 19:38 0° ₹ 10' ₹36'14 26° 45'59 minimum elong 8440 Dec 05 21:01 18° ₹35'05 1 -3° 08'57 evening max el 8441 Nov 04 08:38 8° ₹44'49 morning rise 8440 Dec 13 02:36 13° ₹48'19 evening set 8441 Nov 11 04:42 6° ₹46'13 direct 8440 Dec 15 08:44 13° ₹26'02 min. Earth dist. 8441 Nov 15 00:45 4° ₹09'35 0.59940 AU asc. node 8440 Dec 22 05:33 16° ₹5'10 17° 50'13 minimum elong 8441 Nov 18 05:26 1° ₹35'38 -4° 16'43 morning max el 8440 Dec 31 11:51 0° ₹ 8441 Nov 20 06:15 30° ₹ 10 € 10° ₹00' ₹00' ₹00' ₹00' ₹00' ₹00' ₹00' ₹0	desc. node	8440 Oct 23 09:28			_	-	29° m 33'26	1.31673 AU
retrograde 8440 Nov 22 03:14 26° 🛪 48'08 8441 Sep 29 05:25 0° ML evening set 8440 Nov 29 05:34 24° 🛪 26'51 desc. node 8441 Oct 10 06:32 18° ML11'28 min. Earth dist. 8440 Dec 02 21:52 21° 🛪 34'00 0.62017 AU 8441 Oct 19 19:38 0° 🛪 inferior conj 8440 Dec 05 21:01 18° 🛪 55'51 -3° 08'57 evening max el 8441 Oct 21 10:42 1° 🛪 36'14 26° 45'59 minimum elong 8440 Dec 06 03:00 18° 🛪 37'06 3° 06'39 retrograde 8441 Nov 04 08:38 8° 🛪 44'49 morning rise 8440 Dec 13 02:36 13° 🛪 48'19 evening set 8441 Nov 11 04:42 6° 🛪 46'13 direct 8440 Dec 15 08:44 13° 🛪 26'02 min. Earth dist. 8441 Nov 15 00:45 4° 🛪 09'35 0.59940 AU asc. node 8440 Dec 15 17:32 13° 🛪 26'03 minimum elong 8441 Nov 18 05:26 1° 🛪 35'38 -4° 16'43 morning max el 8440 Dec 22 05:33 16° $\overset{1}{\sim}$ 55'10 17° 50'13 minimum elong 8441 Nov 18 12:46 1° $\overset{1}{\sim}$ 20'52 4° 14'33 morning set 8441 Jan 07 00:36 11° $\overset{1}{\sim}$ 331'29 morning rise 8441 Nov 28 04:11 26° ML36'19		8440 Oct 23 18:49	0°⊀			8441 Sep 14 19:36	0∘ ⊽	
evening set min. Earth dist. B440 Nov 29 05:34 24° ₹26′51 34′00 0.62017 AU 8441 Oct 19 19:38 0° ₹ 18° ₹36′14 26°45′59 minimum elong morning rise 8440 Dec 05 21:01 8440 Dec 06 03:00 18° ₹37′06 3°06′39 18° ₹37′06 3°06′39 18° ₹37′06 3°06′39 18° ₹37′06 3°06′39 18° ₹37′06 3°06′39 18° ₹37′06 3°06′39 18° ₹37′06 3°06′39 18° ₹37′06 3°06′39 18° ₹37′06 3°06′39 18° ₹37′06 3°06′39 18° ₹37′06 3°06′39 18° ₹37′06 3°06′39 18° ₹37′06 3°06′39 18° ₹37′06 3°06′39 18° ₹37′06 3°06′39 18° ₹37′06 3°06′39 18° ₹37′06 3°06′39 18° ₹37′06 3°06′39 18° ₹44′1 Nov 11 04:42 18° ₹44′1 Nov 11 04:42 18° ₹46′13 18° ₹46′13 18° ₹40′13 18° ₹40′13 18° ₹35′38 40′16′43 18° ₹30′18 40′18	evening max el	8440 Nov 08 07:40	19° ∡ ³34′02	27°23'13	evening rise	8441 Sep 21 09:32	14° ≏ 22'52	
min. Earth dist. 8440 Dec 02 21:52 21°₹34'00 0.62017 AU 8441 Oct 19 19:38 0°₹ inferior conj 8440 Dec 05 21:01 18°₹50'51 -3°08'57 evening max el 8441 Oct 21 10:42 1°₹36'14 26°45'59 minimum elong 8440 Dec 06 03:00 18°₹37'06 3°06'39 retrograde 8441 Nov 04 08:38 8°₹44'49 morning rise 8440 Dec 13 02:36 13°₹48'19 evening set 8441 Nov 11 04:42 6°₹46'13 direct 8440 Dec 15 08:44 13°₹26'02 min. Earth dist. 8441 Nov 15 00:45 4°₹09'35 0.59940 AU asc. node 8440 Dec 15 17:32 13°₹26'39 inferior conj 8441 Nov 18 05:26 1°₹35'38 -4°16'43 morning max el 8440 Dec 22 05:33 16°₹55'10 17°50'13 minimum elong 8441 Nov 18 12:46 1°₹20'52 4°14'33 8440 Dec 31 11:51 0°₹ morning rise 8441 Nov 20 06:15 30°R™. morning set 8441 Jan 07 00:36 11°₹31'29 morning rise 8441 Nov 28 04:11 26°™.54'24 direct 8441 Nov 28 04:11 26°™.54'24	retrograde	8440 Nov 22 03:14	26° ≯ ⁴48'08			8441 Sep 29 05:25	0° M	
inferior conj 8440 Dec 05 21:01 18°₹50'51 -3°08'57 evening max el 8441 Oct 21 10:42 1°₹36'14 26°45'59 minimum elong 8440 Dec 06 03:00 18°₹37'06 3°06'39 retrograde 8441 Nov 04 08:38 8°₹44'49 evening set 8441 Nov 11 04:42 6°₹46'13 direct 8440 Dec 15 08:44 13°₹26'02 min. Earth dist. 8441 Nov 15 00:45 4°₹09'35 0.59940 AU asc. node 8440 Dec 15 17:32 13°₹26'39 inferior conj 8441 Nov 18 05:26 1°₹35'38 -4°16'43 morning max el 8440 Dec 22 05:33 16°₹55'10 17°50'13 minimum elong 8441 Nov 18 12:46 1°₹20'52 4°14'33 8440 Dec 31 11:51 0°₹ morning set 8441 Jan 07 00:36 11°₹31'29 morning rise 8441 Nov 28 04:11 26°¶.54'124 4841 Jan 17 12:19 0°≈ direct 8441 Nov 28 04:11 26°¶.56'10 10:45'59 10:45'	•				desc. node			
minimum elong 8440 Dec 06 03:00 18° \$\times 37'06 3°06'39 retrograde 8441 Nov 04 08:38 8° \$\times 44'44'9 bec 15 02:36 13° \$\times 48'19 becoming set 8441 Nov 11 04:42 6° \$\times 46'13 becoming set 8440 Dec 15 08:44 13° \$\times 26'02 becoming set 8441 Nov 15 00:45 4° \$\times 09'35 0.59940 AU asc. node 8440 Dec 15 17:32 13° \$\times 26'39 becoming set 8441 Nov 18 05:26 1° \$\times 35'38 becoming set 8440 Dec 22 05:33 16° \$\times 55'10 17° 50'13 becoming set 8441 Nov 18 12:46 1° \$\times 20'52 becoming set 8441 Jan 07 00:36 11° \$\times 31'29 becoming set 8441 Nov 28 04:11 26° \$\times 15' 12:19 0° \$\times 51'29 becoming set 8441 Nov 28 04:11 26° \$\times 15' 12:19 becoming set 8441 Nov 28 04:11 26° \$\times 15' 12:19 becoming set 8441 Nov 28 04:11 26° \$\times 15' 12:19 becoming set 8441 Nov 28 04:11 26° \$\times 15' 12:19 becoming set 8441 Nov 28 04:11 26° \$\times 15' 12:19 becoming set 8441 Nov 28 04:11 26° \$\times 15' 12:19 becoming set 8441 Nov 28 04:11 26° \$\times 15' 12:19 becoming set 8441 Nov 28 04:11 26° \$\times 15' 12:19 becoming set 8441 Nov 28 04:11 26° \$\times 15' 12:19 becoming set 8441 Nov 28 04:11 26° \$\times 15' 12:19 becoming set 8441 Nov 28 04:11 26° \$\times 15' 12:19 becoming set 8441 Nov 28 04:11 26° \$\times 15' 12:19 becoming set 8441 Nov 28 04:11 26° \$\times 15' 12:19 becoming set 8441 Nov 28 04:11 26° \$\times 15' 12:19 becoming set 8441 Nov 28 04:11 26° \$\times 15' 12:19 becoming set 8441 Nov 28 04:11 26° \$\times 15' 12:19 becoming set 8441 Nov 28 04:11 26° \$\times 15' 13:19 becoming set 8441 Nov 28 04:11 26° \$\times 15' 13:19 becoming set 8441 Nov 28 04:11 26° \$\times 15' 13:19 becoming set 8441 Nov 28 04:11 26° \$\times 15' 13:19 becoming set 8441 Nov 28 04:11 26° \$\times 15' 13:19 becoming set 8441 Nov 28 04:11 26° \$\times 15' 13:19 becoming set 8441 Nov 28 04:11 26° \$\times 15' 13:19 becoming set 8441 Nov 28 04:11 26° \$\times 15' 13:19 becoming set 8441 Nov 28 04:11 26° \$\times 15' 13:19 becoming set 8441 Nov 28 04:11 26° \$\times 15' 13:19 becoming set 8441 Nov 28 04:11 26° \$\times 15' 13:19								26045150
morning rise 8440 Dec 13 02:36 13° 🛪 48'19 evening set 8441 Nov 11 04:42 6° 🛪 46'13 direct 8440 Dec 15 08:44 13° 🛪 26'02 min. Earth dist. 8441 Nov 15 00:45 4° 🛪 09'35 0.59940 AU asc. node 8440 Dec 15 17:32 13° 🛪 26'39 inferior conj 8441 Nov 18 05:26 1° 🛪 35'38 -4°16'43 morning max el 8440 Dec 22 05:33 16° 🛪 55'10 17°50'13 minimum elong 8441 Nov 18 12:46 1° 🛪 20'52 4° 14'33 8440 Dec 31 11:51 0° 풉 8441 Nov 20 06:15 30° R ML morning set 8441 Jan 07 00:36 11° ♂ 31'29 morning rise 8441 Nov 28 04:11 26° ML36'19 direct 8441 Nov 28 04:11 26° ML36'19	3				C			26°45'59
direct 8440 Dec 15 08:44 13° \$\frac{\text{7}}{2}6'02 min. Earth dist. 8441 Nov 15 00:45 4° \$\frac{\text{7}}{2}0'35 0.59940 AU asc. node 8440 Dec 15 17:32 13° \$\frac{\text{7}}{2}6'39 morning max el 8440 Dec 22 05:33 16° \$\frac{\text{7}}{5}5'10 17° 50'13 minimum elong 8441 Nov 18 12:46 1° \$\frac{\text{7}}{2}20'52 4° 14'33 8440 Dec 31 11:51 0° \$\frac{\text{7}}{2}0'35 11° \$\frac{\text{7}}{2}0'	Č			3-00/39	•			
asc. node 8440 Dec 15 17:32 13° え26'39 inferior conj 8441 Nov 18 05:26 1° え35'38 -4°16'43 morning max el 8440 Dec 22 05:33 16° え55'10 17°50'13 minimum elong 8441 Nov 18 12:46 1° え20'52 4°14'33 8440 Dec 31 11:51 0° 舌 8441 Nov 20 06:15 30° R 肌 morning set 8441 Jan 07 00:36 11° 舌31'29 morning rise 8441 Nov 25 23:16 26° 肌54'24 8441 Jan 17 12:19 0° 窓 direct 8441 Nov 28 04:11 26° 肌36'19	-				•			0 59940 Δ11
morning max el 8440 Dec 22 05:33 16°₹55'10 17°50'13 minimum elong 8441 Nov 18 12:46 1°₹20'52 4°14'33 8440 Dec 31 11:51 0°♂ 8441 Nov 20 06:15 30°R M morning set 8441 Jan 07 00:36 11°♂31'29 morning rise 8441 Nov 25 23:16 26° M 54'24 8441 Jan 17 12:19 0°≈ direct 8441 Nov 28 04:11 26° M 36'19								
8440 Dec 31 11:51 0°♂ 8441 Nov 20 06:15 30°RML morning set 8441 Jan 07 00:36 11°♂31'29 morning rise 8441 Nov 25 23:16 26°M.54'24 8441 Jan 17 12:19 0°≈ direct 8441 Nov 28 04:11 26°M.36'19				17°50'13	•			
morning set 8441 Jan 07 00:36 11°♂31'29 morning rise 8441 Nov 25 23:16 26°M.54'24 8441 Jan 17 12:19 0°≈ direct 8441 Nov 28 04:11 26°M.36'19	5				3			
	morning set	8441 Jan 07 00:36			morning rise			
asc. node 8441 Dec 02 14:34 27°M53'26		8441 Jan 17 12:19	0° ≈		direct	8441 Nov 28 04:11		
					asc. node	8441 Dec 02 14:34	27°M53'26	

	8441 Dec 05 09:17	0° ∡ ¹		morning set	8442 Dec 05 08:21	9° ∡ ³32'48	
morning max el	8441 Dec 05 18:04	0° ∡ ′20′56	18°09'36				
morning set	8441 Dec 21 11:07	25° ∡ 17′21		superior conj	8442 Dec 13 21:00	26° ∡ ¹07'37	1°11'33
	8441 Dec 23 23:16	0°る		minimum elong	8442 Dec 14 00:18	26° ∡ ¹23'15	1°11'20
		_			8442 Dec 15 22:27	0°₹	
superior conj	8441 Dec 31 01:20	13° る 03'38	0°45'04	max. Earth dist.	8442 Dec 20 23:15	9° る 08'27	1.39365 AU
minimum elong	8441 Dec 31 04:26	13° ठ 17'31	0°44'48	desc. node	8442 Dec 24 02:35	14° පි 36'32	
desc. node	8442 Jan 06 05:37	23° ප් 53'18		evening rise	8442 Dec 24 21:51	15° ට 58'44	
max. Earth dist.	8442 Jan 07 16:43	26° る 22'09	1.41492 AU		8443 Jan 02 12:25	0° ≈	
	8442 Jan 09 20:53	0° ≈			8443 Jan 24 01:34	0° ∀	
evening rise	8442 Jan 12 17:19	4° ≈ 39'57		evening max el	8443 Jan 29 01:06		24°17'38
	8442 Jan 29 09:06	0° ∺		retrograde	8443 Feb 09 08:31	12° 米 03′52	
evening max el	8442 Feb 15 11:11	21° X 39'59	22°57'45	evening set	8443 Feb 14 17:37	9°) (49'19	
retrograde	8442 Feb 25 16:11	27°) (43'02		asc. node	8443 Feb 15 10:40	9°) 10'45	0.60106.177
asc. node	8442 Feb 28 13:35	27°) (01'23		min. Earth dist.	8443 Feb 19 09:38	4° ¥ 28'18	0.68106 AU
evening set	8442 Mar 02 13:00	25°) (42'11	2012114	inferior conj	8443 Feb 20 05:42	3° ¥ 20'47	1°31'02
inferior conj	8442 Mar 07 21:59	19°) 17'05		minimum elong	8443 Feb 20 03:48	3° ¥ 27′10	1°30'26
minimum elong	8442 Mar 07 19:44	19°) € 24'52	2°11'35		8443 Feb 22 20:11	30°R≈	
min. Earth dist.	8442 Mar 07 13:24	19°) 46'48 13°) 09'26	0.68420 AU	morning rise	8443 Feb 25 14:03 8443 Mar 01 11:27	27°≈19'27	
morning rise	8442 Mar 13 02:23 8442 Mar 17 12:58	13° ★ 09′26 11° ¥ 20′57		direct	8443 Mar 01 11:27 8443 Mar 08 22:33	25°≈53'01 0°¥	
direct		11° X 20'37 16° X 24'49	2192454			0° ★ 13'46	20010102
morning max el	8442 Mar 26 06:41	27° ¥ 10′23	21-24-54	morning max el	8443 Mar 09 04:09	16° X 52'35	20°10'02
desc. node	8442 Apr 04 05:24	2/°π10/23 0°Υ		desc. node	8443 Mar 22 02:19	10° π 52′35 0° Υ	
	8442 Apr 06 07:11 8442 Apr 26 10:06	0° ∀		marning gat	8443 Mar 30 22:12	0° γ 9° Υ 02'01	
marning sat	8442 Apr 26 20:00	0° 8 39'09		morning set max. Earth dist.	8443 Apr 05 19:57 8443 Apr 15 22:24	9 1 02 01 24° Υ 53'43	1.43944 AU
morning set max. Earth dist.	-	11° B 31'33	1.42197 AU	max. Earth dist.	•	0° 8	1.43944 AU
max. Earm dist.	8442 May 03 13:51	11 (3133	1.42197 AU		8443 Apr 19 02:28	0.0	
superior conj	8442 May 11 00:26	24° 8 03'53	-1°59'43	superior conj	8443 Apr 21 18:00	4° 8 19'04	-2°11'37
minimum elong	8442 May 11 05:46	24° 8 26'56	1°59'29	minimum elong	8443 Apr 21 19:17	4° 8 24'20	2°11'43
	8442 May 14 10:03	Π $^{\circ}0$		evening rise	8443 May 04 14:58	26° 8 04'34	
evening rise	8442 May 22 05:35	14° Ⅲ 02'38			8443 May 06 21:25	Π °0	
asc. node	8442 May 27 12:27	23° Ⅲ 34′05		asc. node	8443 May 14 09:30	12° Ⅱ 39′09	
	8442 May 31 06:55	0 \circ \odot		evening max el	8443 May 22 03:45	23° Ⅱ 07'19	18°07'12
evening max el	8442 Jun 07 14:32	9° © 53'25	18°08'06	retrograde	8443 May 28 13:37	26° Ⅱ 27'52	
retrograde	8442 Jun 14 09:45	13° © 20'31		evening set	8443 May 31 08:23	25° Ⅱ 48'46	
evening set	8442 Jun 16 21:01	12° 9 53'37		inferior conj	8443 Jun 06 14:22	20° Ⅱ 37'39	2°50'08
inferior conj	8442 Jun 23 17:31	8° 5 01'52	2°02'41	minimum elong	8443 Jun 06 16:55	20° Ⅲ 30′55	2°49'26
minimum elong	8442 Jun 23 20:32	7° 9 54'52	2°01'37	min. Earth dist.	8443 Jun 09 11:16	17° Ⅱ 37'16	0.62463 AU
min. Earth dist.	8442 Jun 27 00:47	5° © 00'02	0.60230 AU	morning rise	8443 Jun 12 23:41	14° Ⅱ 30'34	
morning rise	8442 Jun 30 17:14	2° © 11'27		desc. node	8443 Jun 18 01:54	12° Ⅱ 10'32	
desc. node	8442 Jul 01 04:52	1° © 53'57		direct	8443 Jun 19 17:56	12° Ⅱ 01'46	
direct	8442 Jul 07 05:49	0°908'10		morning max el	8443 Jul 03 19:59	20° Ⅱ 04'01	27°54'10
morning max el	8442 Jul 21 13:50	8° 5 04'15	27°46'08		8443 Jul 12 07:55	0ංම	
	8442 Aug 07 06:36	0 \circ Ω			8443 Jul 31 06:20	0 $^{\circ}\Omega$	
morning set	8442 Aug 22 20:31	28° Ω 40'48		morning set	8443 Aug 06 20:20	12° Ω 45'39	
asc. node	8442 Aug 23 11:55	0° m 01'19		asc. node	8443 Aug 10 08:52	20° Ω 03'57	
	8442 Aug 23 11:40	0° ™		max. Earth dist.	8443 Aug 12 06:20	24° Ω 06'39	1.32211 AU
max. Earth dist.	8442 Aug 29 00:25	11°Mp56'42	1.31703 AU			_	
				superior conj	8443 Aug 14 10:26	28° Ω 49'05	0°40'19
superior conj	8442 Aug 30 01:23	14° m 14'34	1°02'29	minimum elong	8443 Aug 14 08:42	28° Ω 39'40	0°39'52
minimum elong	8442 Aug 29 23:11	14° Mp 02'23	1°02'03		8443 Aug 14 23:25	0° m)	
evening rise	8442 Sep 05 19:17	29° Mp 02'41		evening rise	8443 Aug 21 06:47	13° m/44'40	
	8442 Sep 06 06:01	0∘ 亚			8443 Aug 29 09:03	0∘ ⊽	
	8442 Sep 22 17:36	0°M		desc. node	8443 Sep 14 00:44	22° ≙ 32'47	
desc. node	8442 Sep 27 03:37	6°M02'00	25026145	evening max el	8443 Sep 14 18:39	23° £ 16'54	24°04'24
evening max el	8442 Oct 03 06:00	12°M48'13	25~36'45	, ,	8443 Sep 26 12:48	0°M	
retrograde	8442 Oct 17 04:12	19°M50'42		retrograde	8443 Sep 28 11:23	0°M08'36	
evening set	8442 Oct 23 06:08	18°M24'41	0.57070 411		8443 Sep 30 10:16	30° ₹ Ω	
min. Earth dist.	8442 Oct 27 18:21	15°M47'36	0.57879 AU	evening set	8443 Oct 03 06:43	29° £ 17'54	0.5(101.41)
inferior conj	8442 Oct 30 19:21	13°M40'13		min. Earth dist.	8443 Oct 09 05:20		0.56121 AU
minimum elong	8442 Oct 31 01:19	13°M29'44	3-10-15	inferior conj	8443 Oct 11 12:51	24° £ 56'53	
morning rise	8442 Nov 07 22:51	9°M21'38		minimum elong	8443 Oct 11 13:12	24° £ 56'20	3 33 42
direct	8442 Nov 10 07:10	9°M.04'35	18°49'48	morning rise direct	8443 Oct 19 21:47	20° £ 58'38	
morning max el	8442 Nov 18 22:50	13°M.14'16 13°M.45'47	10 4740		8443 Oct 22 15:02	20° £ 39'30	10052121
asc. node	8442 Nov 19 11:35 8442 Nov 30 08:45	13°111645'47 0° 7 7		morning max el	8443 Nov 01 16:15 8443 Nov 05 18:14	25° 2 23'44 0° I L	19°52'21
	0 11 4 110V 30 00.43	υ Χ .			10.14 CU VUVI CFF0	U IIIG	

1-	8443 Nov 06 08:34	00 m 47120		J:4	0444 0-+ 02 05-50	10017122	
asc. node		0°M47'39		direct	8444 Oct 02 05:58	1° £ 17'33	21017147
morning set	8443 Nov 19 12:39	24°M06'31		morning max el	8444 Oct 13 20:36	6° £ 44'21	21°16'46
	8443 Nov 22 10:04	0° ∡ ¹		asc. node	8444 Oct 23 05:33	18° ≏ 44'21	
					8444 Oct 29 12:25	0° M	
superior conj	8443 Nov 27 07:24	9° ∡ 52'54	1°29'11	morning set	8444 Nov 02 21:25	8°M51'11	
minimum elong	8443 Nov 27 09:49	10° ∡ °04'56	1°29'09				
max. Earth dist.	8443 Dec 03 05:22	21° 渘 19'40	1.37217 AU	superior conj	8444 Nov 10 04:21	24°M07'45	1°38'46
evening rise	8443 Dec 06 23:27	28° ∡ 12'42		minimum elong	8444 Nov 10 05:29	24°M13'37	1°38'52
	8443 Dec 07 23:32	5°0			8444 Nov 13 01:07	0° ∡ ¹	
desc. node	8443 Dec 10 23:36	5° る 13'34		max. Earth dist.	8444 Nov 14 15:51	3° ҂ 14′00	1.35275 AU
	8443 Dec 26 21:26	0° ≈		evening rise	8444 Nov 18 18:49	11° х 13'20	
evening max el	8444 Jan 11 14:21	19°≈14'20	25°31'57	desc. node	8444 Nov 26 20:39	25° 🖈 39'56	
•	8444 Jan 23 20:17	26°≈16'39	23 31 37	desc. Hode		23 × 3730	
retrograde					8444 Nov 29 11:16		
evening set	8444 Jan 29 18:07	23° ≈ 50′29			8444 Dec 21 05:51	0° ≈	
asc. node	8444 Feb 02 07:46	20° ≈ 04'19		evening max el	8444 Dec 24 03:36	2° ≈ 58'46	26°33'26
min. Earth dist.	8444 Feb 03 03:01	19° ≈ 04'12	0.67402 AU	retrograde	8445 Jan 06 02:43	10°≈15′05	
inferior conj	8444 Feb 04 10:30	17° ≈ 23′18	0°41'39	evening set	8445 Jan 12 12:43	7° ≈ 40'57	
minimum elong	8444 Feb 04 09:29	17° ≈ 26'33	0°41'23	min. Earth dist.	8445 Jan 16 15:16	3° ≈ 29'28	0.66320 AU
morning rise	8444 Feb 10 01:15	11° ≈ 30′14		inferior conj	8445 Jan 18 10:24	1° ≈ 20'30	-0°15'26
direct	8444 Feb 13 10:42	10° ≈ 24'03		minimum elong	8445 Jan 18 10:49	1°≈19'14	0°15'05
morning max el	8444 Feb 20 09:35	14° ≈ 13'34	19°09'39	transit middle	8445 Jan 18 10:49	1°≈19'14	0°15'05
8	8444 Mar 03 08:51	0° ∀		transit begin	8445 Jan 18 09:49	1°≈22'14	
greatest brilliancy	8444 Mar 04 17:56	2°) €04'05	-0.7m	transit ocgin	8445 Jan 18 11:49	1°≈16'15	
-		6°\H57'42	-0.7111				
desc. node	8444 Mar 07 23:14			asc. node	8445 Jan 19 04:51	0°≈25'39	
morning set	8444 Mar 14 21:33	17° ∺ 38'16			8445 Jan 19 13:39	30°Rる	
	8444 Mar 22 20:30	0 ° $\mathbf{\gamma}$		morning rise	8445 Jan 24 09:49	25° る 37'59	
max. Earth dist.	8444 Mar 28 13:45	8° Ƴ 57'26	1.45095 AU	direct	8445 Jan 27 08:50	24° る 49'00	
				morning max el	8445 Feb 02 21:42	28° る 19'46	18°25'25
superior conj	8444 Mar 31 12:06	13° Y 35'05	-2°05'32		8445 Feb 04 11:22	0° ≈	
minimum elong	8444 Mar 31 06:22	13° Ƴ 12'21	2°05'18	morning set	8445 Feb 22 22:15	27° ≈ 27'42	
-	8444 Apr 10 17:30	0°B		desc. node	8445 Feb 22 20:10	27°≈19'26	
evening rise	8444 Apr 15 02:25	7° 8 09'22			8445 Feb 24 12:32	0°) €	
evening rise	8444 Apr 29 09:32	0°I			01.0100 21 12.02	٠,٨	
asc. node	8444 Apr 30 06:35	1° Ⅱ 13'58		superior conj	8445 Mar 10 17:21	22°) €23'04	1920122
	-	6° I 35'01	10024147			21°) (45'26	
evening max el	8444 May 04 16:42		18°24'47	minimum elong	8445 Mar 10 07:44		
retrograde	8444 May 11 03:06	10° Ⅱ 03'13		max. Earth dist.	8445 Mar 11 08:54	23°) €23'53	1.45532 AU
evening set	8444 May 14 05:10	9° Ⅱ 10′30			8445 Mar 15 14:08	0° Υ	
inferior conj	8444 May 20 00:39		3°15'21	evening rise	8445 Mar 26 14:23	17° Ƴ 17'37	
minimum elong	8444 May 20 01:59	3° Ⅱ 37'39	3°15'04		8445 Apr 03 16:02	8° 0	
min. Earth dist.	8444 May 22 07:02	1° Ⅱ 02'50	0.64469 AU	greatest brilliancy	8445 Apr 05 10:41	2° 8 46'02	-0.8m
	8444 May 23 05:41	30° ₹ 8		asc. node	8445 Apr 17 03:41	19° 8 08'39	
morning rise	8444 May 25 21:52	27° 8 26'06		evening max el	8445 Apr 18 02:48	20° 8 09'42	19°00'02
direct	8444 Jun 01 14:17	24° 8 42'44		retrograde	8445 Apr 24 22:25	23° 8 58'18	
desc. node	8444 Jun 03 22:56	25° 8 00'48		evening set	8445 Apr 28 08:01	22° 8 51'13	
desc. node	8444 Jun 12 09:16	0°II		inferior conj	8445 May 03 20:37	17° 8 06'06	3°23'06
morning max el	8444 Jun 15 05:41	2° I I41'08	27926110	minimum elong	8445 May 03 20:38	17° 8 06'04	3°22'58
morning max er		2 H 41 08	27 20 10	_	•	17 800 04 15°802'25	
. ,	8444 Jul 05 15:34			min. Earth dist.	8445 May 05 11:37		0.66112 AU
morning set	8444 Jul 20 11:51	26°924'00		morning rise	8445 May 09 08:45	10° 8 47'48	
	8444 Jul 22 07:24	$0^{\circ}\Omega$		direct	8445 May 15 17:42	8° 8 01'42	
max. Earth dist.	8444 Jul 25 04:54		1.33201 AU	desc. node	8445 May 21 19:57	10° 8 02'15	
asc. node	8444 Jul 27 05:50	10° Ω 10'11		morning max el	8445 May 28 16:17	15° 8 43'38	26°28'32
					8445 Jun 09 10:08	Π $^{\circ}0$	
superior conj	8444 Jul 28 15:14	13° Ω 07'15	0°14'03		8445 Jun 28 11:31	0ಂ ತಾ	
minimum elong	8444 Jul 28 14:33	13° Ω 03'33	0°13'45	morning set	8445 Jul 03 15:39	9° © 25'59	
behind sun begin	8444 Jul 28 11:43	12° Ω 48'30		max. Earth dist.	8445 Jul 07 17:03	17° © 14'49	1.34670 AU
behind sun end	8444 Jul 28 17:22	13° Ω 18'37					
evening rise	8444 Aug 04 18:09	28° Ω 23'11		superior conj	8445 Jul 12 13:24	27° © 01'36	-0°15'37
2.46 1100	8444 Aug 05 12:29	0° Mp		minimum elong	8445 Jul 12 14:17	27°506'10	
	•	0ം ⊽		Č			0 133/
	8444 Aug 23 01:56		2222454	behind sun begin	8445 Jul 12 12:53	26°958'56	
evening max el	8444 Aug 26 06:57	3° £ 29'24	22~24'54	behind sun end	8445 Jul 12 15:41	27° © 13'25	
desc. node	8444 Aug 30 21:52	7° ≙ 15'00			8445 Jul 13 23:51	0 $^{\circ}\Omega$	
retrograde	8444 Sep 08 06:17	9° £ 57'16		asc. node	8445 Jul 14 02:49	0° Ω 15′23	
evening set	8444 Sep 11 13:33	9° ≙ 33'14		evening rise	8445 Jul 20 03:19	12° Ω 51'19	
min. Earth dist.	8444 Sep 19 13:28	6° ≏ 02'11	0.54979 AU		8445 Jul 28 23:26	0° m	
inferior conj	8444 Sep 20 12:46	5° £ 29'18	-5°11'16	evening max el	8445 Aug 08 03:43	14°M 00'59	20°54'08
minimum elong	8444 Sep 20 05:43	5° ≙ 39'17	5°10'09	desc. node	8445 Aug 17 19:00	19° m 36'42	
morning rise	8444 Sep 28 23:40	1° ≏ 41'33		retrograde	8445 Aug 19 18:45	19° m 46'34	
- C				3	Ç ,	.,	

	0445 4 21 22 26	100m-2450		. ,	0446 4 02 00 12	200 0 50150	
evening set	8445 Aug 21 23:36	19° m 34'59		evening set	8446 Aug 02 08:12	29° Ω 58'50	
inferior conj	8445 Aug 31 05:12	15° m 38'08	-3°52'19		8446 Aug 02 05:19	30°R Ω	
minimum elong	8445 Aug 30 19:45	15° m 51'34	3°49'33	desc. node	8446 Aug 04 16:06	29° Ω 21'55	
min. Earth dist.	8445 Aug 31 22:27	15° m 13'39	0.54699 AU	inferior conj	8446 Aug 11 04:44	25° Ω 55'57	-1°59'42
morning rise	8445 Sep 08 16:07	11° m)41'11		minimum elong	8446 Aug 10 23:16	26° Ω 04'28	1°57'44
direct	8445 Sep 12 13:52	11° mp 08'30		min. Earth dist.	8446 Aug 13 10:15	24° Ω 32'33	0.55380 AU
morning max el	8445 Sep 25 14:02	17° m) 21'52	22°57'50	morning rise	8446 Aug 19 12:07	21°Ω30'16	
morning max er	8445 Oct 05 16:48	0° <u>م</u>	22 37 30	direct	8446 Aug 24 04:50	20° Ω 41'16	
1					•		24042124
asc. node	8445 Oct 10 02:31	7° ≏ 22'41		morning max el	8446 Sep 07 02:30	27° Ω 36'41	24°43'34
morning set	8445 Oct 18 08:32	23° ≏ 40'35			8446 Sep 09 11:08	0° m)	
	8445 Oct 21 07:30	0° M		asc. node	8446 Sep 26 23:28	26° Mp 32'18	
					8446 Sep 28 17:47	0∘ ⊽	
superior conj	8445 Oct 25 08:30	8°M42'14	1°41'15	morning set	8446 Oct 02 20:15	8° ჲ 29'30	
minimum elong	8445 Oct 25 08:21	8°M41'25	1°41'21				
max. Earth dist.	8445 Oct 28 09:53	15° M ₊10'35	1.33691 AU	superior conj	8446 Oct 09 17:15	23° ≏ 28'13	1°37'25
evening rise	8445 Nov 02 04:03	24°M50'58	-100077	minimum elong	8446 Oct 09 16:02	23° Ω 21'32	1°37'25
evening rise	8445 Nov 04 19:52	0° ⊼ ¹		max. Earth dist.	8446 Oct 11 11:55	27° ⊆ 20'40	1.32548 AU
				max. Earm dist.			1.32346 AU
desc. node	8445 Nov 13 17:44	15° ∡ ′50′03			8446 Oct 12 17:26	0° M	
	8445 Nov 22 23:15	0°₹		evening rise	8446 Oct 16 23:38	8°M56'16	
evening max el	8445 Dec 06 16:29	16° る 30'28	27°14'52		8446 Oct 28 05:14	0° ∡ ¹	
retrograde	8445 Dec 20 03:24	23° る 51'27		desc. node	8446 Oct 31 14:48	5° ∡ ³36′25	
evening set	8445 Dec 26 23:17	21° る 15'24		evening max el	8446 Nov 19 03:37	29° ∡ ³37'47	27°29'24
min. Earth dist.	8445 Dec 30 20:15	17° 云 37'39	0.64879 AU	Č	8446 Nov 19 13:05	0°₹	
inferior conj	8446 Jan 02 03:07	15° る 07'26		retrograde	8446 Dec 02 21:26	。 6° る 55'56	
				•		4°る26'30	
minimum elong	8446 Jan 02 05:30		1°18'11	evening set	8446 Dec 09 23:00		
asc. node	8446 Jan 06 01:56	11° る 12'44		min. Earth dist.	8446 Dec 13 16:05	1° る 18'59	0.63126 AU
morning rise	8446 Jan 08 13:12	9° そ 38'05			8446 Dec 15 00:28	30°Ŗ ⋌ ¹	
direct	8446 Jan 11 03:40	9° る 02'33		inferior conj	8446 Dec 16 09:51	28° ∡ ³37′04	-2°28'22
morning max el	8446 Jan 17 13:59	12° る 25'36	17°57'58	minimum elong	8446 Dec 16 14:33	28° ∡ ¹25'27	2°26'22
	8446 Jan 29 21:47	0° ≈ ≈		morning rise	8446 Dec 23 08:07	23° × 23'41	
morning set	8446 Feb 04 04:31	8° ≈ 45'16		asc. node	8446 Dec 23 22:59	23° ∡ 11'51	
desc. node	8446 Feb 09 17:07	17° ≈ 53'00		direct	8446 Dec 25 16:21	22° × 57'42	
desc. node		0° ∺					17°47'49
	8446 Feb 17 04:48	υ π		morning max el	8447 Jan 01 07:21		1/-4/49
					8447 Jan 04 10:19	0°ප	
superior conj	8446 Feb 18 04:46	1° ∺ 35'35		morning set	8447 Jan 17 12:07	21° る 15'41	
minimum elong	8446 Feb 17 22:00	1° ∺ 08'36	0°57'51		8447 Jan 22 13:02	0° ≈	
max. Earth dist.	8446 Feb 22 04:29	7° ¥ 54'16	1.45220 AU	desc. node	8447 Jan 27 14:03	8° ≈ 33'39	
evening rise	8446 Mar 06 07:44	26° ¥ 45'56					
8 21	8446 Mar 08 10:14	0° Υ		superior conj	8447 Jan 29 13:19	11° ≈ 50'29	-0°14'24
greatest brilliancy	8446 Mar 20 14:45	18° Y 25'59	-0.6m	minimum elong	8447 Jan 29 11:49	11° ≈ 44'18	0°14'01
greatest offinality		0° 8	-0.0111	-			0 1401
	8446 Mar 28 23:59	_		behind sun begin	8447 Jan 29 07:12	11°≈25′10	
evening max el	8446 Apr 01 08:15	_	19°51'30	behind sun end	8447 Jan 29 16:26	12° ≈ 03′25	
asc. node	8446 Apr 04 00:48	6° 8 11'31		max. Earth dist.	8447 Feb 04 21:59	22° ≈ 11'45	1.44209 AU
retrograde	8446 Apr 08 20:30	8° 8 07'33			8447 Feb 09 20:22	0°) €	
evening set	8446 Apr 12 14:27	6° 8 45'39		evening rise	8447 Feb 13 18:56	6° ∺ 06'56	
inferior conj	8446 Apr 17 23:10	0° 8 46'17	3°16'59		8447 Mar 01 18:46	$0^{\circ}\mathbf{Y}$	
minimum elong	8446 Apr 17 22:04		3°16'47	evening max el	8447 Mar 15 08:14	17° Y °27'30	20°56'47
8	8446 Apr 18 12:56	30° ₹ Υ		asc. node	8447 Mar 21 21:55	22° Y °07'25	
min. Earth dist.	8446 Apr 18 23:32		0.67328 AU	retrograde	8447 Mar 23 19:00	22° Y 25'24	
	_		0.07328 AU	•			
morning rise	8446 Apr 23 05:24	24° Y 28'33		evening set	8447 Mar 27 22:25	20° Υ 48'19	2050:27
direct	8446 Apr 29 03:13	21° Y ′50′22		inferior conj	8447 Apr 02 05:44	14° Ƴ 36'51	
desc. node	8446 May 08 16:55	26° Ƴ 43'59		minimum elong	8447 Apr 02 03:52	14° Ƴ 43'17	2°59'04
morning max el	8446 May 11 01:59	29° Y ′00′16	25°10'22	min. Earth dist.	8447 Apr 02 16:32	13° Y 59′28	0.68098 AU
	8446 May 12 01:04	0°B		morning rise	8447 Apr 07 09:05	8° Y 21'59	
	8446 Jun 03 05:10	$\Pi^{\circ}0$		direct	8447 Apr 12 17:44	5° Ƴ 59'41	
morning set	8446 Jun 16 03:28	21° II 40'20		morning max el	8447 Apr 23 11:03	12° Y 23'37	23°41'58
•			1 26575 AII	•	•	14° Υ 38'18	23 41 36
max. Earth dist.	8446 Jun 19 18:40		1.36575 AU	desc. node	8447 Apr 25 13:52		
	8446 Jun 20 16:23	0 \circ			8447 May 07 14:06	0° 8	
					8447 May 27 01:00	0°Щ	
superior conj	8446 Jun 26 02:04	10° © 25'07	-0°47'19	morning set	8447 May 28 17:52	2° Ⅱ 52'33	
minimum elong	8446 Jun 26 04:57	10° © 39'23	0°46'58	max. Earth dist.	8447 Jun 01 14:38	9°Ⅱ34'00	1.38770 AU
asc. node	8446 Jun 30 23:50	20° © 15'55					
evening rise	8446 Jul 04 08:04	27° © 02'55		superior conj	8447 Jun 09 01:37	23° I 108'58	-1°18'55
<i>5</i>	8446 Jul 05 19:17	0°Ω		minimum elong	8447 Jun 09 06:30	23° I I31'55	
evening max el	8446 Jul 21 13:45	25° Ω 14'35	19°41'12	Ciong	8447 Jun 12 15:56	0°95	1 10 22
evening max ei	0 11 0 jui 41 13.43	43 061433	17 71 14		044/Juli 12 13.30	وت ن	
	0446 11 20 10 07	00 m-		aga 1.	0447 1 17 20 52	1000007141	
, ,	8446 Jul 29 19:07	0° m		asc. node	8447 Jun 17 20:52	10°507'41	
retrograde	8446 Jul 29 19:07 8446 Jul 31 11:48	0° Mp 0° Mp 08′18		asc. node evening rise	8447 Jun 17 20:52 8447 Jun 18 05:40	10°507'41 10°550'38	

	8447 Jun 28 20:09	0°N		evening rise	8448 May 31 16:40	24° Ⅱ 05'34	
evening max el	8447 Jul 04 12:05	7° Ω 12'58	18°48'58	asc. node	8448 Jun 03 17:54	29° ∏ 45'49	
retrograde	8447 Jul 12 20:26	11° Ω 21'12	10 40 50	ase. node	8448 Jun 03 20:58	0°95	
evening set	8447 Jul 14 20:17	11° Ω 07'57		evening max el	8448 Jun 16 19:05	19° 5 47'58	18°17'16
inferior conj	8447 Jul 22 22:28	6° Ω 48'15	-0°07'03	retrograde	8448 Jun 24 00:25	23° © 25'34	10 17 10
minimum elong	8447 Jul 22 22:10	6°Ω48'47		evening set	8448 Jun 26 07:24	23°504'28	
transit middle	8447 Jul 22 22:10	6° Ω 48'47		inferior conj	8448 Jul 03 13:57	18° 5 24'01	1°23'23
transit begin	8447 Jul 22 18:51	6°Ω54'48	0 0, 00	minimum elong	8448 Jul 03 16:29	18°5518'36	1°22'21
transit end	8447 Jul 23 01:30	6° Ω 42'45		min. Earth dist.	8448 Jul 06 23:21	15° © 32'42	0.58943 AU
desc. node	8447 Jul 22 13:09	7° Ω 05'03		desc. node	8448 Jul 08 10:14	14°525'41	
min. Earth dist.	8447 Jul 26 01:57	4° Ω 32'32	0.56891 AU	morning rise	8448 Jul 10 22:23	12° © 48'28	
morning rise	8447 Jul 30 20:40	1° Ω 45'51		direct	8448 Jul 17 04:12	11° © 03'15	
direct	8447 Aug 05 09:45	0° Ω 31'30		morning max el	8448 Jul 31 13:17	18° © 50'14	27°24'09
morning max el	8447 Aug 19 16:48	7° Ω 57'51	26°17'28		8448 Aug 09 23:18	$0^{\circ}\Omega$	
•	8447 Sep 05 04:09	0° m			8448 Aug 27 19:47	o° mp	
asc. node	8447 Sep 13 20:25	16° Mp 05'06		asc. node	8448 Aug 30 17:21	5° m 53′34	
morning set	8447 Sep 17 06:59	23° m 13'33		morning set	8448 Aug 31 15:00	7° № 46'43	
	8447 Sep 20 10:08	0∘ ত					
				superior conj	8448 Sep 07 16:14	23°Mp07'51	1°13'11
superior conj	8447 Sep 24 04:28	8° £ 19'07	1°27'54	minimum elong	8448 Sep 07 14:00	22° m 55'23	1°12'49
minimum elong	8447 Sep 24 02:32	8° ഫ 08'21	1°27'43	max. Earth dist.	8448 Sep 07 06:04	22° Mp 11'24	1.31635 AU
max. Earth dist.	8447 Sep 24 19:49	9° £ 44'05	1.31864 AU		8448 Sep 10 18:37	0० ⊽	
evening rise	8447 Oct 01 02:38	23° ഫ 21′20		evening rise	8448 Sep 14 10:33	7° £ 57'39	
	8447 Oct 04 08:24	0° M			8448 Sep 25 19:22	o° m ₊	
desc. node	8447 Oct 18 11:53	24°M49'34		desc. node	8448 Oct 04 08:59	13°M15'16	
	8447 Oct 22 01:57	0°⊀		evening max el	8448 Oct 13 10:39	23°M49'44	26°20'05
evening max el	8447 Nov 01 10:38	12° ≯ 08'18	27°11'43		8448 Oct 22 13:38	0° ⊼	
retrograde	8447 Nov 15 07:38	19° ∤ 19'48		retrograde	8448 Oct 27 08:39	0° ≯ 54'56	
evening set	8447 Nov 22 08:21	17° ∡ °07'13			8448 Nov 01 02:02	30°₽ M	
min. Earth dist.	8447 Nov 26 01:22	14° ≯ 22'36	0.61141 AU	evening set	8448 Nov 02 22:45	29°M09'22	
inferior conj	8447 Nov 29 03:28	11° ∡ ′41′36	-3°38'31	min. Earth dist.	8448 Nov 06 23:53	26° ™ 34'52	0.59053 AU
minimum elong	8447 Nov 29 10:13	11° ∡ 26'53	3°36'10	inferior conj	8448 Nov 10 04:21	24°M10'23	-4°42'21
morning rise	8447 Dec 06 14:23	6° ₰ 747'28		minimum elong	8448 Nov 10 11:34	23°M56'42	4°40'33
direct	8447 Dec 08 19:29	6° ₹ 27'22		morning rise	8448 Nov 18 02:43	19° M 38'34	
asc. node	8447 Dec 10 20:00	6° ₰ ⁴44'47		direct	8448 Nov 20 08:38	19° M 21'09	
morning max el	8447 Dec 15 22:35	10° ≯ 02'17	17°56'00	asc. node	8448 Nov 26 17:00	21°M49'19	
	8447 Dec 29 01:14	0°ಕ		morning max el	8448 Nov 28 08:10	23°M15'00	18°24'03
morning set	8447 Dec 31 14:31	4° る 39'28			8448 Dec 03 17:46	0°⊀	
		_		morning set	8448 Dec 14 06:05	18° ∡ ³39'24	
superior conj	8448 Jan 10 23:29	23°る18'46			8448 Dec 20 04:49	0°る	
minimum elong	8448 Jan 11 01:36	23° る 28'02	0°25'32				
desc. node	8448 Jan 14 11:00	29° る 18'07		superior conj	8448 Dec 23 08:21	5°₹51'43	
	8448 Jan 14 20:53	0° ≈		minimum elong	8448 Dec 23 11:43	6° る 07'12	0°57'09
max. Earth dist.	8448 Jan 18 11:43	6°≈02'40	1.42615 AU	max. Earth dist.	8448 Dec 30 20:52	19°る14'57	1.40609 AU
evening rise	8448 Jan 24 15:24	15°≈58'22		desc. node	8448 Dec 31 07:59	20°る02'36	
	8448 Feb 02 18:29	0° ∀		evening rise	8449 Jan 04 07:06	26° ප් 42'23	
	8448 Feb 25 00:42	0° Υ	22012100		8449 Jan 06 07:25	0° ≈	
evening max el	8448 Feb 26 03:07	1°Υ08'40	22°12'00		8449 Jan 26 10:47	0°) (52)24	22021150
retrograde	8448 Mar 06 16:06	6° Ƴ 47'50 6° Ƴ 41'28		evening max el	8449 Feb 07 18:13	14° 	25 51 58
asc. node evening set	8448 Mar 07 19:00 8448 Mar 11 06:18	6°°γ°41°28 4°Υ55'30		retrograde asc. node	8449 Feb 18 10:29 8449 Feb 22 16:05	19°) 43'27	
evening set		4° 1 33′30′ 30°R) €			8449 Feb 22 16:05 8449 Feb 23 12:34	19° X 43'27	
inferior conj	8448 Mar 15 13:32 8448 Mar 16 14:12	*	2°32'05	evening set inferior conj	8449 Feb 28 22:42	19 X 0341 12° X 36'45	1°55'46
minimum elong	8448 Mar 16 11:58	28° X 42'22	2°31'30	minimum elong	8449 Feb 28 20:33	12 X 30 43	1°55'07
min. Earth dist.	8448 Mar 16 12:29	28°\(\frac{42}{22}\)		min. Earth dist.	8449 Feb 28 20:33 8449 Feb 28 09:09	12 X 44 08	0.68336 AU
min. Earth dist.	8448 Mar 16 12:29 8448 Mar 21 17:29	28° X 40'35 22° X 24'05	0.00427 AU	min. Earth dist.	8449 Feb 28 09:09 8449 Mar 06 04:30	6° ¥ 31'51	0.00330 AU
direct	8448 Mar 26 12:09	20°\(\frac{1}{2}2'37\)		direct	8449 Mar 10 09:24	4°) 52'55	
morning max el	8448 Apr 04 22:22	25° H 54'27	22°13'05	morning max el	8449 Mar 18 15:35	9° X 36'43	20°51'34
morning max ci	8448 Apr 08 15:51	23 γ 3427	22 13 03	desc. node	8449 Mar 29 07:43	22° H 50'15	20 JIJ T
desc. node	8448 Apr 11 10:48	3° Υ 25'11		dese. Hode	8449 Apr 03 08:13	22 γ (3013	
desc. Hode	8448 Apr 30 02:25	0° 8		morning set	8449 Apr 17 15:41	21° Υ 37'37	
morning set	8448 May 08 05:48	12° 8 50'01		morning set	8449 Apr 22 22:53	0° 8	
max. Earth dist.	8448 May 13 12:51	21° 8 34'07	1.41009 AU	max. Earth dist.	8449 Apr 25 17:50	4° 8 29'45	1.43000 AU
man. Darui dist.	8448 May 18 11:01	0° I	1.11007 AU	max. Durin dist.	511711pt 25 17.50	. 02/43	1. 15000 AU
	55.may 10 11.01	~ ~		superior conj	8449 May 02 15:25	15° 8 55'01	-2°06'36
superior conj			1047100				
	8448 May 21 07:37	5°Щ02'22	-1~4/'00	minimum elong	8449 May 02 19:55	10°O12'31	2°06'33
minimum elong	8448 May 21 07:37 8448 May 21 13:30	5° Ⅲ 02'22 5° Ⅲ 28'33		minimum elong	8449 May 02 19:33 8449 May 10 19:05	16° 8 12'31 0° Ⅱ	2°06'33

evening rise	8449 May 14 12:49	6° Ⅱ 37'45		minimum elong	8450 Apr 12 20:45	25° Ƴ 36'02	2°11'34
asc. node	8449 May 21 14:57	19° Ⅱ 05'10		C	8450 Apr 15 13:53	0°8	
	8449 May 28 18:49	0°©		evening rise	8450 Apr 26 13:20	18° 8 16'00	
evening max el	8449 May 31 07:01	2° 9 50'21	18°05'21		8450 May 03 12:22	$\Pi^{\circ}0$	
retrograde	8449 Jun 06 21:02	6° © 13'10		asc. node	8450 May 08 12:02	7° Ⅱ 58'25	
evening set	8449 Jun 09 11:30	5°9541'18	2025140	evening max el	8450 May 14 20:25	16° Ⅱ 10'32	18°12'28
inferior conj	8449 Jun 16 01:17	0°540'50	2°25'48	retrograde	8450 May 21 05:36	19° Ⅲ 33'04 18° Ⅲ 48'29	
minimum elong	8449 Jun 16 04:16 8449 Jun 16 17:51	0°©33'31 30°R∏	2°24'52	evening set inferior conj	8450 May 24 03:20 8450 May 30 04:23	18° Ц 48'29 13° Ц 29'38	3°03'12
min. Earth dist.	8449 Jun 19 04:47	27° I I37'00	0.61190 AU	minimum elong	8450 May 30 04:23	13° I I23'52	
morning rise	8449 Jun 22 18:41	24° II 41'57	0.01170710	min. Earth dist.	8450 Jun 01 19:24	10° I I36'09	0.63347 AU
desc. node	8449 Jun 25 07:16	23° Ⅱ 18'50		morning rise	8450 Jun 05 08:10	7° Ⅱ 17'48	
direct	8449 Jun 29 10:25	22° II 27'06		direct	8450 Jun 12 02:21	4° Ⅱ 41'14	
	8449 Jul 13 05:49	0 \circ \odot		desc. node	8450 Jun 12 04:18	4° Ⅱ 41'15	
morning max el	8449 Jul 13 16:41	0°526'45	27°54'17	morning max el	8450 Jun 26 00:52	12° Ⅱ 44'11	27°46'22
	8449 Aug 04 02:03	0 $^{\circ}$ Ω			8450 Jul 09 19:37	0 \circ \odot	
morning set	8449 Aug 15 18:29	22° Ω 04'03			8450 Jul 27 13:59	$0^{\circ}\Omega$	
asc. node	8449 Aug 17 14:20	25° Ω 52'37		morning set	8450 Jul 30 15:09	5° Ω 58'49	
P. d. F.	8449 Aug 19 12:46	0° m/y	1 210/0 411	asc. node	8450 Aug 04 11:19	15° £ 57′24	1.22570 444
max. Earth dist.	8449 Aug 21 14:49	4° m 31'38	1.31868 AU	max. Earth dist.	8450 Aug 04 17:59	16° Ω 32'43	1.32570 AU
superior conj	8449 Aug 23 02:49	7° m 49'13	0°53'38	superior conj	8450 Aug 07 10:20	22° Ω 17'28	0°29'39
minimum elong	8449 Aug 23 00:45	7° ™ 37'50	0°53'10	minimum elong	8450 Aug 07 08:58	22° Ω 10′07	0°29'15
evening rise	8449 Aug 29 21:18	22° m 39'16			8450 Aug 10 23:27	0°Що	
	8449 Sep 02 09:29	0∘ ⊽		evening rise	8450 Aug 14 08:58	7° m 20'14	
	8449 Sep 20 18:13	0°M			8450 Aug 26 04:21	0° ⊽	22021152
desc. node	8449 Sep 21 06:05	0°M34'59	24950114	evening max el	8450 Sep 06 13:48	14° £ 57'42	23°21'53
evening max el retrograde	8449 Sep 25 02:30 8449 Oct 08 23:04	4°M40'25 11°M39'30	24°59'14	desc. node retrograde	8450 Sep 08 03:12 8450 Sep 20 01:24	16° ≙ 23'40 21° ≙ 42'14	
evening set	8449 Oct 14 13:38	10°M28'25		evening set	8450 Sep 24 05:01	21° ⊆ 4214 21° ⊆ 04'35	
min. Earth dist.	8449 Oct 19 13:53	7°M45'43	0.57083 AU	min. Earth dist.	8450 Sep 30 23:27	17° £ 55'12	0.55539 AU
inferior conj	8449 Oct 22 09:33	5°M54'30		inferior conj	8450 Oct 02 18:53	16° £ 51'21	
minimum elong	8449 Oct 22 13:40	5°M47'42	5°26'01	minimum elong	8450 Oct 02 15:57	16° ≏ 55'41	5°32'01
morning rise	8449 Oct 30 16:00	1°M45'35		morning rise	8450 Oct 11 04:59	12° ≏ 59'24	
direct	8449 Nov 02 03:32	1°M28'01		direct	8450 Oct 14 03:07	12° ≏ 38'44	
morning max el	8449 Nov 11 08:30	5°M50'42	19°13'41	morning max el	8450 Oct 24 20:34	17° ≏ 40'35	20°25'46
asc. node	8449 Nov 13 14:00	8°M12'55		asc. node	8450 Oct 31 10:59	25° ≏ 40'09	
	8449 Nov 26 17:36	0°⊀			8450 Nov 03 05:13	0°M	
morning set	8449 Nov 28 06:39	3° ≯ 03'21		morning set	8450 Nov 12 13:09 8450 Nov 18 12:03	17° M .42'48 0° ∡ 7	
superior conj	8449 Dec 06 10:51	19° ∡ 14'54	1°20'05		01301101 10 12.03	· ,	
minimum elong	8449 Dec 06 13:51	19° ∡ ¹29'28	1°19'56	superior conj	8450 Nov 20 02:15	3° х 14'46	1°34'10
	8449 Dec 12 03:41	0°ರ		minimum elong	8450 Nov 20 04:09	3° х 24′22	1°34'12
max. Earth dist.	8449 Dec 13 02:37	1° る 44'24	1.38436 AU	max. Earth dist.	8450 Nov 25 09:37	13° ∡ ⁴44'25	1.36350 AU
evening rise	8449 Dec 16 20:49	8° る 24'44		evening rise	8450 Nov 29 06:31	21° ∡ 00′29	
desc. node	8449 Dec 18 04:58	10° る 43'32			8450 Dec 04 08:01	0° 궁	
	8449 Dec 30 04:35	0° ≈	2.4050122	desc. node	8450 Dec 05 02:01	1°る17'00	
evening max el	8450 Jan 21 07:27 8450 Jan 22 17:35	28°≈38'44 0° ℋ	24°50'22	evening max el	8450 Dec 24 02:55 8451 Jan 03 20:34	0° ≈ 12° ≈ 26'17	26000100
retrograde	8450 Feb 02 01:03	5° ¥ 28'50		retrograde	8451 Jan 16 10:51	12 ≈20 17 19°≈36'41	20 00 08
evening set	8450 Feb 07 15:38	3° \ €08'42		evening set	8451 Jan 22 13:54	17°≈06'34	
asc. node	8450 Feb 09 13:11	1°) 16'45		min. Earth dist.	8451 Jan 26 19:57	12°≈34'57	0.66981 AU
	8450 Feb 10 15:30	30° R ≈		asc. node	8451 Jan 27 10:15	11° ≈ 50'34	
min. Earth dist.	8450 Feb 12 04:23	28° ≈ 02'36	0.67847 AU	inferior conj	8451 Jan 28 08:24	10° ≈ 41'14	0°18'22
inferior conj	8450 Feb 13 05:24	26° ≈ 39'57	1°11'02	minimum elong	8451 Jan 28 07:55	10° ≈ 42'44	0°18'19
minimum elong	8450 Feb 13 03:48	26° ≈ 45′12	1°10'33	morning rise	8451 Feb 03 02:33	4° ≈ 52'15	
morning rise	8450 Feb 18 16:12	20° ≈ 42′06		direct	8451 Feb 06 07:16	3° ≈ 53'57	
direct	8450 Feb 22 08:15	19° ≈ 24'48		morning max el	8451 Feb 13 01:07	7°≈34'28	18°48'46
morning max el	8450 Mar 01 16:35	23°≈30'54	19°42'31		8451 Mar 01 04:22	0°) (55140	
	8450 Mar 07 05:28	0°) (0.6-	desc. node	8451 Mar 03 01:35	2° H 55'48	
greatest brilliancy	8450 Mar 14 10:32	10° 米 07′21	-0.6m	morning set	8451 Mar 06 22:37	8° ℋ 58'54 0° Ƴ	
desc. node	8450 Mar 16 04:38	12°) 42'47 29°) 56'52		max. Earth dist.	8451 Mar 20 09:18	0°'γ' 2° Υ 24'01	1.45369 AU
morning set	8450 Mar 27 13:07 8450 Mar 27 13:56	29°π 36'32 0°Υ		max. Earui dist.	8451 Mar 21 22:04	∠ † 24 Ul	1.43309 AU
max. Earth dist.	8450 Apr 08 05:22	18° Υ 10'46	1.44506 AU	superior conj	8451 Mar 23 09:04	4° Υ 41'19	-1°56'44
uit	2.22.2p. 00 00.22	1 10 10		minimum elong	8451 Mar 23 00:53	4° Υ 09'12	
superior conj	8450 Apr 12 22:20	25° Y 42'26	-2°11'31	evening rise	8451 Apr 07 14:39	28°Υ55'20	-
- "	•			~	•		

	8451 Apr 08 06:41	0° 8			8452 Feb 22 01:20	0° ∀	
greatest brilliancy	8451 Apr 13 19:14	8° 8 54'57	-0.9m				
asc. node	8451 Apr 25 09:07	26° 8 17'20		superior conj	8452 Mar 01 14:30	13°) 33′01	
evening max el	8451 Apr 28 08:26	29° 8 41'40	18°37'44	minimum elong	8452 Mar 01 05:24	12° ¥ 57'16	
	8451 Apr 28 15:52	0° П		max. Earth dist.	8452 Mar 03 17:43		1.45496 AU
retrograde evening set	8451 May 04 21:50 8451 May 08 03:00	3° Ⅱ 17'03 2° Ⅱ 18'25		evening rise	8452 Mar 12 03:09 8452 Mar 17 17:32	0°Υ 8°Υ42'58	
evening set	8451 May 10 22:05	2 д 1623 30°R 8		greatest brilliancy	8452 Mar 29 16:17	8 1 42 38 27° Υ 10'27	-0.7m
inferior conj	8451 May 13 19:11	26° 8 42'41	3°20'31	greatest offinaley	8452 Mar 31 13:30	0°8	0.7111
minimum elong	8451 May 13 19:57	26° 8 40'22	3°20'19	evening max el	8452 Apr 10 16:48	13° 8 18'27	19°20'08
min. Earth dist.	8451 May 15 19:08	24° 8 17'17	0.65219 AU	asc. node	8452 Apr 11 06:12	13° 8 51'30	
morning rise	8451 May 19 12:08	20° 8 25'27		retrograde	8452 Apr 17 18:30	17° 8 18'36	
direct	8451 May 26 02:05	17° 8 39'06		evening set	8452 Apr 21 07:37	16° 8 05'11	
desc. node	8451 May 30 01:20	18° 8 30'26		inferior conj	8452 Apr 26 18:15	10° 8 13'57	3°22'01
morning max el	8451 Jun 08 11:04	25° 8 32'42	27°04'41	minimum elong	8452 Apr 26 17:45	10° 8 15'34	3°21'52
	8451 Jun 12 12:50	0°© 0°∏		min. Earth dist.	8452 Apr 28 02:55	8° 8 27'36	0.66688 AU
morning set	8451 Jul 03 08:05 8451 Jul 14 02:09	19° 5 22'47		morning rise direct	8452 May 02 03:31 8452 May 08 08:14	3° 8 55'50	
max. Earth dist.	8451 Jul 18 12:02	19 \$2247 28°\$06'53	1.33762 AU	direct desc. node	8452 May 15 22:20	4° 8 17'59	
max. Darm dist.	8451 Jul 19 10:14	0°Ω	1.55702710	morning max el	8452 May 20 21:10	8° 8 41'24	25°57'12
asc. node	8451 Jul 22 08:18	6° Ω 03'33			8452 Jun 06 13:54	0°II	
					8452 Jun 24 20:15	0ಂತಾ	
superior conj	8451 Jul 22 12:38	6° Ω 26′21	0°01'50	morning set	8452 Jun 25 23:44	2° © 05'52	
minimum elong	8451 Jul 22 12:33	6° Ω 25'51	0°01'39	max. Earth dist.	8452 Jun 29 19:21	9° © 17'22	1.35431 AU
behind sun begin	8451 Jul 22 06:57	5° Ω 56′26					
behind sun end	8451 Jul 22 18:09	6° Ω 55'20		superior conj	8452 Jul 05 07:10	20°508'51	
evening rise	8451 Jul 29 19:38	21° Ω 54'42		minimum elong	8452 Jul 05 08:52	20°517'28	0°28'45
arranina marral	8451 Aug 02 18:02	0° Mp 25° Mp 15'03	21944!27	asc. node	8452 Jul 08 05:19 8452 Jul 10 02:18	26° © 07'29 0° Ω	
evening max el	8451 Aug 19 04:55 8451 Aug 25 15:54	0° ت المارة 23	21 44 37	evening rise	8452 Jul 10 02:18 8452 Jul 13 03:13	6° Ω 16'49	
desc. node	8451 Aug 26 00:20	0° ഫ 09'52		evening rise	8452 Jul 26 06:24	0°m	
retrograde	8451 Aug 31 16:21	1° Ω 26'33		evening max el	8452 Jul 31 07:15	6° Mp 03'31	20°20'43
evening set	8451 Sep 03 10:09	1° ჲ 09'37		retrograde	8452 Aug 11 04:48	11° m)26'46	
	8451 Sep 07 01:52	30°R Mp		desc. node	8452 Aug 11 21:26	11°Mp25'32	
inferior conj	8451 Sep 12 14:03	27° m 10'38		evening set	8452 Aug 13 04:18	11°Mp16'53	
minimum elong	8451 Sep 12 05:03	27° m 23'13		inferior conj	8452 Aug 22 07:44	7° m 19'14	
min. Earth dist.	8451 Sep 12 07:55	27° m 19'13	0.54741 AU	minimum elong	8452 Aug 21 23:27	7° Mp 31'21	3°03'56
morning rise	8451 Sep 21 01:06	23° Tp 21'15		min. Earth dist.	8452 Aug 23 17:39	6° Th 29'41	0.54876 AU
direct	8451 Sep 24 13:43	22° m 54'03	21050!11	morning rise	8452 Aug 30 17:48	3° Mp 12'23	
morning max el	8451 Oct 06 19:43 8451 Oct 08 03:50	28° ™ 41'19 0° ≏	21 3611	direct morning max el	8452 Sep 03 23:31 8452 Sep 17 09:58	2° m/33'43 9° m/05'22	23°43'06
asc. node	8451 Oct 18 07:58	0 — 13° ⊆ 56'08		morning max cr	8452 Oct 02 15:43	ე° ი	23 43 00
use. Houe	8451 Oct 26 18:21	0°M		asc. node	8452 Oct 04 04:57	ა — 2° ჲ 49'12	
morning set	8451 Oct 27 23:09	2°M30'05		morning set	8452 Oct 11 10:45	17° ≏ 20'06	
					8452 Oct 17 07:20	0° M	
superior conj	8451 Nov 04 02:37	17° M 39'00	1°40'37				
minimum elong	8451 Nov 04 03:11	17°M42'00	1°40'45	superior conj	8452 Oct 18 09:00	2°M19'10	
max. Earth dist.	8451 Nov 07 23:04	25°M37'42	1.34554 AU	minimum elong	8452 Oct 18 08:21	2°M15'41	1°40'25
	8451 Nov 10 03:20	0° 🔏 1.0120		max. Earth dist.	8452 Oct 20 20:57	7°M40'58	1.33158 AU
evening rise desc. node	8451 Nov 12 08:17 8451 Nov 21 23:04	4° ₹ 18'28 21° ₹ 37'19		evening rise	8452 Oct 25 22:20 8452 Nov 01 02:39	18° M .09'04 0° √	
dese. Hode	8451 Nov 27 03:31	0°る		desc. node	8452 Nov 07 20:08	11° × ⁷ 38'21	
evening max el	8451 Dec 17 09:58	26° පි 07'18	26°53'59	dese. node	8452 Nov 20 10:49	0°る	
C	8451 Dec 21 23:41	0° ≈		evening max el	8452 Nov 28 22:31	9° ට 30'32	27°24'37
retrograde	8451 Dec 30 14:56	3° ≈ 26′24		retrograde	8452 Dec 12 12:33	16° る 49'57	
evening set	8452 Jan 06 05:20	0° ≈ 50'57		evening set	8452 Dec 19 11:36	14° る 15'46	
	8452 Jan 07 05:21	30°Ŗ⋜		min. Earth dist.	8452 Dec 23 06:46		0.64178 AU
min. Earth dist.	8452 Jan 10 05:31		0.65750 AU	inferior conj	8452 Dec 25 18:21	8° 궁 15'14	
inferior conj	8452 Jan 12 05:33	24°₹34'58		minimum elong	8452 Dec 25 21:43	8°る06'25	1°46'37
minimum elong asc. node	8452 Jan 12 06:44	24°る31'31 22°る15'51	0°41'05	asc. node	8452 Dec 31 04:23	3°る28'51 2°る52'07	
asc. node morning rise	8452 Jan 14 07:19 8452 Jan 18 09:15	18° る 57'23		morning rise direct	8453 Jan 01 09:28 8453 Jan 03 21:06	2°る52'07 2°る20'58	
direct	8452 Jan 21 04:23	18°る14'32		morning max el	8453 Jan 10 08:19	5° る 43'19	17°51'25
morning max el	8452 Jan 27 15:15	21° ප් 40'55	18°11'34		8453 Jan 26 11:33	0° ≈	
Ç	8452 Feb 03 05:01	0° ≈		morning set	8453 Jan 27 05:46	1° ≈ 17'14	
morning set	8452 Feb 15 11:58	19° ≈ 26′22		desc. node	8453 Feb 03 19:26	13° ≈ 59'47	
desc. node	8452 Feb 17 22:31	23° ≈ 23'00					

superior conj	8453 Feb 09 09:32	23°≈08'05	0°20'51	minimum elong	8454 Jan 21 05:27	3°≈56'28	0002126
minimum elong	8453 Feb 09 05:02	23 ≈08 03 22°≈49'54		behind sun begin	8454 Jan 20 20:47	3°≈19'47	0 03 30
minimum ciong	8453 Feb 13 16:25	22 ≈ 49 34 0° ∺	0 39 03	behind sun end	8454 Jan 21 14:07	3 ≈1947 4°≈33'03	
max. Earth dist.	8453 Feb 14 13:12	0 X 1° ¥ 22'24	1.44878 AU	desc. node	8454 Jan 21 16:23	4°≈42'36	
			1.446/6 AU				1 42502 ATT
evening rise	8453 Feb 25 06:23	18° ¥ 03'25		max. Earth dist.	8454 Jan 28 05:32		1.43592 AU
	8453 Mar 05 02:54	0° Υ	20015145	evening rise	8454 Feb 04 19:50	27°≈33'22	
evening max el	8453 Mar 24 19:57	26° Y 57′01	20°17'47		8454 Feb 06 09:45	0°) €	
	8453 Mar 28 09:30	0° 8			8454 Feb 26 22:56	0°Υ	
asc. node	8453 Mar 29 03:17	0° 8 27'32		evening max el	8454 Mar 07 17:33	10° Ƴ 36'49	21°27'48
retrograde	8453 Apr 01 16:58	1° 8 31'56		asc. node	8454 Mar 16 00:23	15° Y ′50′40	
evening set	8453 Apr 05 14:54	0° 8 03'21		retrograde	8454 Mar 16 15:13	15° Y ′52'37	
	8453 Apr 05 16:40	30° ₹ Υ		evening set	8454 Mar 20 23:04	14° Y ′08'53	
inferior conj	8453 Apr 10 22:44	23° Y 58′27	3°10'49	inferior conj	8454 Mar 26 06:23	7° Y ′52'44	
minimum elong	8453 Apr 10 21:16	24° Y 03′27	3°10'33	minimum elong	8454 Mar 26 04:19	7° Y 59'56	2°48'30
min. Earth dist.	8453 Apr 11 17:06	22° Y 55'52	0.67712 AU	min. Earth dist.	8454 Mar 26 11:40	7° Y ′34'20	0.68288 AU
morning rise	8453 Apr 16 03:25	17° Y 41'57		morning rise	8454 Mar 31 09:22	1° Y '39'31	
direct	8453 Apr 21 19:46	15° Ƴ 09'59			8454 Apr 02 21:08	30° ₹	
desc. node	8453 May 02 19:17	21° Y 33'12		direct	8454 Apr 05 11:58	29° ∺ 25'57	
morning max el	8453 May 03 06:25	22° Y 01′04	24°33'29		8454 Apr 08 07:03	0° Y	
	8453 May 10 05:24	$_{0\circ}$ 8		morning max el	8454 Apr 15 16:14	5° Y 28′15	23°03'43
	8453 May 30 20:46	$\Pi^{\circ}0$		desc. node	8454 Apr 19 16:11	9° Ƴ 52'06	
morning set	8453 Jun 08 03:03	13° Ⅱ 54'48			8454 May 04 13:44	0°8	
max. Earth dist.	8453 Jun 11 18:08	20° Ⅲ 23′29	1.37488 AU	morning set	8454 May 20 06:41	24° 8 36'28	
	8453 Jun 16 21:54	0ං වෙ			8454 May 23 11:26	Π $^{\circ}0$	
				max. Earth dist.	8454 May 24 14:23	1° Ⅱ 55'39	1.39735 AU
superior conj	8453 Jun 18 14:42	3°516'05	-1°00'54				
minimum elong	8453 Jun 18 18:28	3° © 34'22	1°00'26	superior conj	8454 Jun 01 07:19	15° Ⅲ 39'16	-1°31'31
asc. node	8453 Jun 25 02:18	16° © 04'27		minimum elong	8454 Jun 01 12:50	16° Ⅱ 04'38	1°30'59
evening rise	8453 Jun 27 05:17	20°918'58			8454 Jun 08 22:04	0 \circ \odot	
	8453 Jul 02 04:38	$0^{\circ}\Omega$		evening rise	8454 Jun 10 22:52	3° © 53'50	
evening max el	8453 Jul 13 22:41	17° Ω 35′27	19°16'22	asc. node	8454 Jun 11 23:20	5° © 50'49	
retrograde	8453 Jul 23 03:45	22° Ω 08'48		evening max el	8454 Jun 27 01:06	29° © 49'51	18°32'57
evening set	8453 Jul 25 00:44	21° Ω 58'16			8454 Jun 27 05:16	$0^{\circ}\Omega$	
desc. node	8453 Jul 29 18:32	20° Ω 10′06		retrograde	8454 Jul 04 20:45	3° Ω 43'24	
inferior conj	8453 Aug 02 13:59	17° Ω 48'39	-1°10'08	evening set	8454 Jul 06 23:17	3° Ω 27′22	
minimum elong	8453 Aug 02 10:53	17° Ω 53'49	1°09'05		8454 Jul 13 08:59	30° ₹ 🥯	
min. Earth dist.	8453 Aug 05 06:39	16° Ω 01'53	0.55933 AU	inferior conj	8454 Jul 14 16:57	28° © 59'01	0°34'41
morning rise	8453 Aug 10 18:12	13° Ω 07'42		minimum elong	8454 Jul 14 18:12	28° © 56'35	0°34'03
direct	8453 Aug 15 19:28	12° Ω 09'16		desc. node	8454 Jul 16 15:35	27° © 28'08	
morning max el	8453 Aug 29 22:31	19° Ω 18'43	25°26'06	min. Earth dist.	8454 Jul 18 00:45	26° © 25'20	0.57717 AU
	8453 Sep 07 23:25	0° m)		morning rise	8454 Jul 22 09:36	23° © 41'03	
asc. node	8453 Sep 21 01:54	22° m 09'11		direct	8454 Jul 28 06:17	22°513'52	
	8453 Sep 24 22:13	0∘ ত		morning max el	8454 Aug 11 15:21	29° © 50'56	26°49'57
morning set	8453 Sep 25 22:15	2° ₽ 07'16			8454 Aug 11 19:04	$\mathfrak{O}^{\circ}\mathfrak{O}$	
					8454 Sep 01 20:47	0° m y	
superior conj	8453 Oct 02 19:01	17° ≏ 07'28	1°34'02	asc. node	8454 Sep 07 22:51	11° m 48'50	
minimum elong	8453 Oct 02 17:27	16° ≙ 58'48	1°33'58	morning set	8454 Sep 10 08:02	16° Mp 46'48	
max. Earth dist.	8453 Oct 04 01:56	19° ≙ 57'20	1.32200 AU		8454 Sep 16 09:29	0∘ ⊽	
	8453 Oct 08 17:56	0°M					
evening rise	8453 Oct 09 21:21	2°M22'59		superior conj	8454 Sep 17 06:41	1° ≏ 57'39	1°22'17
	8453 Oct 24 22:59	0° ∡ ¹		minimum elong	8454 Sep 17 04:34	1° ≏ 45'51	1°22'00
desc. node	8453 Oct 25 17:14	1° ∡ 11'52		max. Earth dist.	8454 Sep 17 11:07	2° £ 22'11	1.31702 AU
evening max el	8453 Nov 11 08:06	22° ҂ ¹23'05	27°25'55	evening rise	8454 Sep 24 02:41	16° ≙ 52'49	
retrograde	8453 Nov 25 03:18	29° ∡ ³38'30			8454 Sep 30 15:04	0° M ₊	
evening set	8453 Dec 02 05:43	27° ∡ 14'37		desc. node	8454 Oct 12 14:20	20°M06'27	
min. Earth dist.	8453 Dec 05 21:59	24° ⋌ 18'24	0.62309 AU		8454 Oct 20 04:13	0° ∡ ¹	
inferior conj	8453 Dec 08 19:55	21° ∡ ³35′00	-2°58'20	evening max el	8454 Oct 24 12:11	4° ∡ ³32'33	26°53'49
minimum elong	8453 Dec 09 01:35	21° х 21'43	2°56'05	retrograde	8454 Nov 07 10:06	11° ∡ ⁴42'13	
morning rise	8453 Dec 15 23:37	16° ∡ ¹29'41		evening set	8454 Nov 14 07:39	9° ∡ ³39'39	
direct	8453 Dec 18 06:11	16° ∡ ¹06'35		min. Earth dist.	8454 Nov 18 02:34	7° ∡ °01'24	0.60246 AU
asc. node	8453 Dec 18 01:25	16° ₰ 06'46		inferior conj	8454 Nov 21 06:49	4° ∡ °25′02	-4°07'06
morning max el	8453 Dec 25 01:15	19° ∡ ³34'15	17°49'00	minimum elong	8454 Nov 21 14:04	4° ₰ 10'06	4°04'49
	8454 Jan 01 17:39	5°0			8454 Nov 27 23:20	30°RM	
morning set	8454 Jan 09 22:09	14° る 12'41		morning rise	8454 Nov 28 22:56	29°M40'26	
	8454 Jan 18 21:56	0° ≈		direct	8454 Dec 01 03:40	29°M21'59	
					8454 Dec 04 05:37	0° ∡ ¹	
superior conj	8454 Jan 21 05:06	3° ≈ 55'00	0°03'29	asc. node	8454 Dec 04 22:27	0° ∡ 19'22	
=							

mamming area 845 bot 64 66 79 79 79 79 79 79 79								
Separation conj	morning max el	8454 Dec 08 14:36		18°05'28		8455 Dec 01 16:48	0°⊀	
Superior Conf. Statistical Col. 13 19°55-27 0'4014 minimum clong 4815 lac 10 1013 19°55075 0'3979 max. Earth dist 4815 lac 10 1051 29°5070 141792 AU deci. node 4815 lac 10 1051 29°5070 141792 AU deci. node 4815 lac 10 1051 19°65170 141792 AU deci. node 4815 lac 10 1051 19°65170 141792 AU deci. node 4815 lac 10 1051 19°65170 141792 AU deci. node 4815 lac 10 1051 19°65170 141792 AU deci. node 4815 lac 10 1051 19°65170 19°	morning set				morning set	8455 Dec 08 02:41	12° ≯ 05'00	
superior ordy minimum element ordy (a) MSA is not 0.01 at 2.0 m/Sec 200. (a) MSA is		8454 Dec 25 09:54	0°ಕ					
minimardone 4855 and 03 e128 6750755 97990 max. Earth dist. 4855 and 10 1651 7979070 141792 AU 400000000000000000000000000000000000					superior conj	8455 Dec 16 18:36	28° ≯ ⁴48'43	1°08'07
Section of 3455 an 08 121 275	superior conj	8455 Jan 03 01:33	15° る 52'37	0°40'14	minimum elong	8455 Dec 16 21:57		1°07'52
nax. Earth dish 8455 Jun 10 10.51 29°60'00 0 141792 AU denc. node 8455 Dec 28 10.23 10°51'103 evening rise 8455 Jun 15 23.43 79m4519 evening max 8455 Jun 13 10.28 0°M evening max 8455 Fab 18 10.30 22°F4 1825 22°49.17 evening max 8456 Fab 10.00 0°M descring max 8455 Fab 28 11.26 0°M'1532 evening max 8456 Fab 10.00 0°M' descring max 8455 Fab 28 11.26 0°M'1532 evening set 8456 Fab 10.01.35 12°H24308 ass. note 8455 Mar 00.02.129 29°H4473 minimum clong 8455 Fab 20.00 20°K 1830 0.881184 sinforic coij 8455 Mar 10.00 10°07 29°H4523 0.68137 AU minimum clong 8455 Fab 20.00 87°H5573 19°H219 drein disc 8455 Mar 10.00 10°07 29°H6230 0.68137 AU minimum clong 8455 Fab 20.00 87°H5573 19°H219 minimum clong 8455 Mar 20 10.00 10°M 10°M*1000 10°M 10°M*1000 10°M*1000 10°M*1000 <t< td=""><td>minimum elong</td><td>8455 Jan 03 04:28</td><td>16°る05'35</td><td>0°39'59</td><td></td><td>8455 Dec 17 09:47</td><td>0°ප</td><td></td></t<>	minimum elong	8455 Jan 03 04:28	16° る 05'35	0°39'59		8455 Dec 17 09:47	0°ප	
Servering rise	desc. node	8455 Jan 08 13:21	25° る 27'25		max. Earth dist.	8455 Dec 23 23:59	11° る 57'45	1.39692 AU
Second S	max. Earth dist.	8455 Jan 10 16:51	29° る 05'00	1.41792 AU	desc. node	8455 Dec 26 10:23	16° る 11'03	
Sevening max et		8455 Jan 11 06:00	0° ≈		evening rise	8455 Dec 28 00:57	18° る 55'00	
Persign max el 845 Feb 18 (10,30) 22*H 1825 22*4547 evening max el 845 Feb 0.00 475 8455 Fe	evening rise	8455 Jan 15 23:43	7° ≈ 45'19			8456 Jan 03 19:54	0° ≈	
March Mar		8455 Jan 30 13:28	0° ∀			8456 Jan 24 21:19	0° ∀	
Partinggrade 8455 Fab 28 11.26 0°P°1532 evening set 8456 Fab 17 11.33 12°P4208 ease node 8455 Mar 02 21:29 29°H4613 min. Fairth dist. 8456 Fab 12 0.445 6°H58703 0.68181 AU evening set 8455 Mar 10 10:27 29°H5629 21°P43 min. Fairth dist. 8456 Fab 12 0.445 6°H58703 0.68181 AU evening set 8455 Mar 10 10:27 22°H0079 21°P106 morning rise 8455 Mar 10 10:252 22°H0079 21°P106 morning rise 8455 Mar 10 10:37 82°H56219 morning max el 8455 Mar 10 10.37 82°H56219 morning max el 8455 Mar 10 10.57 82°H56219 morning max el 8455 Mar 10 10.57 82°H56219 morning max el 8455 Mar 10 10.57 82°H56219 morning max el 8455 Mar 10 10.51 82°H56219 82°H5621	evening max el	8455 Feb 18 10:30	24° ₩ 18'25	22°45'47	evening max el	8456 Feb 01 00:45	8° ₩ 03'57	24°05'56
ose node as 58 Mar 02 0.557 30°RH ase, node as 585 Mar 02 1229 29°H4613 min Farth dist. 8455 Fab 1 1 1835 22°H0749 18374		8455 Feb 26 15:00	$0^{\circ}\mathbf{\Upsilon}$		retrograde	8456 Feb 12 04:17	14°) 36′44	
Second S455 Mar 0 0 21 29 9/H 4/13	retrograde	8455 Feb 28 11:26	0° Ƴ 15'32		evening set	8456 Feb 17 11:33	12°) €24'08	
Sevening set M455 Mar 0.8 0.502 28°H 0.56 0.57 18°13748 0.16°107 0.18°13748 0.18°13719 0.18°13748 0.18°13719		8455 Mar 02 05:57	30° ₹ ₩		asc. node	8456 Feb 17 18:35	12°) €08'49	
minimum elong minimum elon	asc. node	8455 Mar 02 21:29	29°) 46′13		min. Earth dist.	8456 Feb 22 04:45	6°) 58′03	0.68181 AU
minimum elong	evening set	8455 Mar 05 06:27	28° 升 16'56		inferior conj	8456 Feb 22 23:06	5° 升 55'57	1°37'48
minimar and min	inferior conj	8455 Mar 10 15:07	21° 米 52'49	2°17'43	minimum elong	8456 Feb 22 21:08	6° ℋ 02'38	1°37'12
min. Earth dist. 8455 Mar 10 08:19 22°H (623 08:437 AU 8456 Mar 08 08:08 28°He2354 30°Rese moming rise 8455 Mar 10 07:48 13°H (521) direct 8456 Mar 07 17:16 0°H moming max el 8455 Mar 20 07:48 13°H (563) desc. mode 8456 Mar 10 10:75 2°H (501) desc. node 8455 Apr 07 08:10 0°P desc. mode 8456 Mar 21 0:20 0°P moming set 8455 Apr 30 06:51 4°B (917) and 10°B 8456 Mar 21 0:20 0°P max. Earth dist. 8455 May 10 06:51 4°B (917) 1.1902 AU 8456 Mar 10 10:20 0°P superior conj 8455 May 16 09:57 2°P (315) 1.1902 AU 8456 Apr 17 2:16 2°P (311) superior conj 8455 May 15 19:47 0°II evening rise 8456 May 0 6:12 2°P (117) superior conj 8455 May 20 0:05 16°II 11:13 evening rise 8456 May 0 6:52 2°P (217) suscinco conj 8455 May 20 0:05 16°II 11:13 evening set 8456 May 0 10:12 2°P (111) suscinco conj 8455 May	minimum elong	8455 Mar 10 12:52	22° ℋ 00'39	2°17'06	_	8456 Feb 28 06:43	29° ≈ 53'37	
direct 4455 Mar 20 0.074.8 13º£3219 8456 Mar 01 17.16 0°£ 2°£5004 2°£2018 desc. node 8456 Mar 11 0.157 2°£5004 2°£2018 desc. node 8456 Mar 21 10.05 18°£3471 2°£2018 desc. node 8456 Mar 21 10.05 18°£3471 2°£2018	min. Earth dist.	8455 Mar 10 08:19	22° ℋ 16'23	0.68437 AU	C	8456 Feb 28 03:24	30°R≈	
General March M	morning rise	8455 Mar 15 19:08	15°) 44'15		direct	8456 Mar 03 06:05	28° ≈ 23'54	
morning max el 8455 Mar 29 0.54 d 99-K0320 21°3701 morning max el 8456 Mar 31 0.1.57 22°45074 20°2018 desc. node 8456 Mar 31 0.1.57 07°47 07°		8455 Mar 20 07:48	13° ¥ 52'19			8456 Mar 07 17:16	0° ₩	
desc. node	morning max el	8455 Mar 29 05:40	19°) €03'20	21°37'01	morning max el	8456 Mar 11 01:57		20°20'18
March Mar	•				-			
Superior conj S455 Apr 27 17.38 0°B max. Earth dist. S455 Apr 30 06.51 4°B 0139 max. Earth dist. S455 Apr 30 06.51 4°B 0139 1.4902 AU		•					0° Υ	
max. Earth dist. 8455 Apr 30 0.651 428019 1.41902 AU		-			morning set			
max. Earth dist. 8455 May 16 14:29 14°B1619 1.41902 AU 8456 Apr 19 10:58 0°B superior conj minimum elong minimum elong minimum elong minimum elong ak455 May 14 09:57 8455 May 15 19:47 0°II superior conj minimum elong ak456 Apr 24 01:39 7°B3214 -2°10'52 cvening rise 8455 May 15 19:47 0°II evening rise 8456 May 06 16:24 29°B01'07 cvening rise 8455 May 15 19:47 0°II asc. node 8456 May 07 05:55 0°II ass. node 8455 May 19 29 20:32 25°II 12'9 asc. node 8456 May 15 19:47 0°II evening max el 8455 Jun 10 11:57 0°62 evening max el 8456 May 30 10:18 29°II0'93 evening as a 8455 Jun 10 10:43 12°223750 18°09'53 retrograde 8456 May 30 10:18 29°II0'931 evening as a 8455 Jun 10 10:04:31 18°220'10'2 evening max el 8456 Jun 10 10:14 29°II0'931 inferior conj 8455 Jun 20 17:19 10°6252'56 17°3310 minimum elong 8456 Jun 10 11:03 20°III1'19 20°II1'19 20°23'11'19 20°23'10'10'25'6 18'11'10'10'25'10'25'6	morning set				•	•		1 43719 AU
superior conj	•	-		1 41902 AU	man. Darun diot.	-		1.13719110
minimum elong	max. Bartii dist.	0133 May 00 11.29	11 01019	1.11702710		010011p1 17 10.50	ů O	
minimum elong	superior coni	8455 May 14 04:22	27° × 07'33	-1°56'43	superior coni	8456 Apr 24 01:39	7° \3 2'14	-2°10'52
evening rise		•	_			•	_	
Sevening rise 8455 May 25 04.05 16°IL5123 asc. node 8456 May 97 05.55 0°IL	minimum ciong			1 30 20	· ·	-	_	2 1000
asc. node	evening rise				evening rise	•		
evening max el 8455 Jun 01 11:57 0°© retrograde evening max el 8456 May 23 23:44 25° H48'55 18'06'09 evening max el 8455 Jun 10 10:43 12'©37'50 18'09'53 retrograde 8456 May 30 10:18 29''H09'31 retrograde 8455 Jun 10 10:43 12''52''537'50 retrograde evening set 8456 May 30 10:18 29''H09'31 retrograde evening set 8455 Jun 10 10:50.09 16''©50'702 evening set 8455 Jun 10 10:50.09 16''©50'702 inferior conj 8455 Jun 10 10:50.09 17:19 10''©52'56 15'33'10 minimum elong 8456 Jun 10 11:10:36 20''H12'15' 0.62138 AU minimum elong 8455 Jun 26 20:17 10''©46'13 1''52'06 mini. Earth dist. 8455 Jun 10 13:13 7°©55'302 0.59895 AU morning rise 8456 Jun 11 10:36 20''H12''59 0.62138 AU morning rise 8455 Jul 10 10:13 7°©55'302 0.59895 AU morning rise 8456 Jun 11 10:36 20''H12''59 0.62138 AU morning rise 8455 Jul 10 10:22''H12''59 0.59895 AU morning max el 8455 Jul 10 0:62:8 3°©0'0'17 morning max el 8455 Jul 10 0:62:8 3°©0'0'17 morning max el 8455 Jul 24 14:47 11''©50'114 27''41'38 morning set 8456 Aug 80 9:59 0''\(\Omega L\) 8455 Aug 80 9:59 10''\(\Omega L\) 8450 Aug 80 9:59 10''\(\Omega L\) 8455 Aug 80 9:59 10''\(\Omega	•				asc node	•		
evening max el 8455 Jun 10 10:43 12°@37'50 18°09'53 retrograde 8456 May 30 10:18 29°\bar{m}D09'3 retrograde 8455 Jun 17 08:09 16°@507'02 evening set 8456 Jun 02 04:00 28°\bar{m}22'17	asc. node	,				,		18°06'09
retrograde 8455 Jun 17 08:09 16°\$0702 evening set 8456 Jun 02 04:00 28°\$\$\tau\$217\$ evening set 8455 Jun 19 18:20 15°\$\tau\$41'42 inferior conj 8456 Jun 08 11:52 23°\$\tau\$23716 2°44'27 inferior conj 8456 Jun 08 11:52 23°\$\tau\$23716 2°44'27 inferior conj 8455 Jun 26 17:19 10°\$\tau\$25'25 1°53'10 minimum elong 8456 Jun 08 14:34 23°\$\tau\$116'51 2°43'41 minimum elong 8455 Jun 30 01:31 7°\$\tau\$53'02 0.59895 AU moming rise 8456 Jun 11 10:36 20°\$\tau\$118'41 17°\$\tau\$118'41 17°\$\tau\$18'41 18'\$\tau\$18'45 Aug 28 00:09 0°\$\tau\$ moming max el 8456 Aug 13 15:41 0°\$\tau\$1 15:44 0°\$\tau\$1 18'\$\tau\$25'05 18'\$\tau\$25'00:09 0°\$\tau\$1 moming set 8456 Aug 28 19:50 18'\$\tau\$1 18'\$\tau\$1 18'\$\tau\$1 18'\$\tau\$21'\tau\$20'5 18'\$\tau\$1 18'\$\tau\$20'5 18'\$\tau\$25'05 18'\$\tau\$25'05 18'\$\tau\$25'05 18'\$\tau\$3 18'\$\tau\$1 18'\$\tau\$1 18'\$\tau\$20'5	evening may el			18°09'53	•	•		10 00 0)
evening set 8455 Jun 19 18:20 15°\$41'42 inferior conj 8456 Jun 08 11:52 23°\$\$\tau\$250 2°44'27 inferior conj 8455 Jun 26 17:19 10°\$\tau\$25'256 1°53'10 minimum elong 8456 Jun 08 14:34 23°\$\tau\$1.651 2°43'41 minimum elong 8455 Jun 26 20:17 10°\$\tau\$26'256 1°53'10 minimum elong 8456 Jun 11 10:36 20°\$\tau\$1.751 2°43'41 minimum elong 8455 Jun 30 0:31 7°\$\tau\$30'2 0.59895 AU morning rise 8456 Jun 11 20:34 17°\$\tau\$18'41 morning rise 8455 Jul 03 19:19 5°\$\tau\$06'07 desc. node 8456 Jun 12 0:40 15°\$\tau\$09'56 desc. node 8456 Jun 12 0:40 14°\$\tau\$18'41 morning rise 8455 Jul 03 12:31 5°\$\tau\$06'07 desc. node 8456 Jun 12 0:40 14°\$\tau\$18'41 morning rise 8455 Jul 03 12:31 5°\$\tau\$06'07 desc. node 8456 Jun 12 0:40 14°\$\tau\$18'41 morning max el 8455 Jul 00 0:62:8 3°\$\tau\$07'17 morning max el 8455 Jul 00 0:62:8 3°\$\tau\$07'17 morning max el 8455 Jul 24 14:47 11°\$\tau\$01'14 27°41'38 morning set 8456 Jul 12 0:2:56 0°\$\tau\$ 8455 Jul 25 10:09 0°\$\tau\$ morning set 8456 Jul 12 0:2:56 0°\$\tau\$ 8455 Jul 25 10:09 0°\$\tau\$ morning set 8456 Jul 15 15°\$\tau\$2205 morning set 8456 Jul 16:48 21°\tau\$41'13 asc. node 8455 Jul 25 14:23 15°\tau\$13'58 15°\tau\$13'58 12°\tau\$13'59 morning set 8456 Jul 16:48 21°\tau\$41'13 asc. node 8455 Jul 25 15:59 16°\$\tau\$13'56 1°05'03 minimum elong 8456 Jul 16:48 21°\tau\$41'13 asc. node 8455 Jul 25 15:59 16°\$\tau\$13'56 1°05'03 minimum elong 8456 Jul 16:48 21°\tau\$42'13 asc. node 8456 J	•			10 07 55	•			
minferior conj 8455 Jun 26 17:19 10° ∞52'56 1°53'10 minimum elong 8456 Jun 08 14:34 23° ∏1651 2°43'41 minimum elong 8455 Jun 26 20:17 10° ∞52'61 15'2'06 min. Earth dist. 8456 Jun 11 10:36 20° ∏21'59 06:218 AU minimum elong 8455 Jun 30 01:31 7° ∞55'32 0.5895 AU morning rise 8456 Jun 14 23:14 17° ∏18'41 morning rise 8455 Jul 03 19:19 5° ∞50'6'07 desc. node 8455 Jul 10 06:28 3° ∞50'717 morning max el 8455 Jul 20 14:47 11° ∞0'14 2°41'38 8456 Jun 21 17:04 14° ∏53'16 2° 75'5'24 morning max el 8455 Jul 20 14:47 11° ∞0'14 2° 41'38 8456 Jul 12 02:56 0° ∞	Č				C			2°44'27
minimum elong	•			1°53'10	3			
min. Earth dist.					•			
Morning rise 8455 Jul 03 19:19 5°\$06'07 desc. node 8456 Jun 19 09:40 15°\$\$\tau\$075'55'24 direct 8455 Jul 10 10:28 3°\$\tau\$07'17 morning max el 8456 Jul 10 06:28 3°\$\tau\$07'17 morning max el 8455 Jul 10 06:28 3°\$\tau\$07'17 morning max el 8455 Jul 24 14:47 11°\$\tau\$01'14 27°41'38 8456 Jul 12 02:56 0°\$\tau\$								0.02138 AU
desc. node 8455 Jul 03 12:37 5 \(\frac{9}{2} \) 628 direct 8456 Jun 21 17:04 14 \(\frac{1}{1} \) 15316 direct 8455 Jul 10 06:28 3 \(\frac{9}{2} \) 0717 morning max el 8456 Jul 05 20:16 22 \(\frac{1}{1} \) 15316 27 \(\frac{5}{2} \) 24 14:47 11 \(\frac{9}{2} \) 11 \(\frac{9}{2} \) 138 8456 Jul 12 \(\frac{0}{2} \) 155 Aug 25 00:09 0 \(\frac{9}{1} \) 0 \(\frac{9}{1} \) 1 \(\frac{9}{1} \) 13 15:41 0 \(\frac{9}{1} \) 1 \(\frac{9}{1}				0.57675 AC				
direct 8455 Jul 10 06:28 3°\$07!17 morning max el 8456 Jul 05 20:16 22°II54'51 27°55'24 morning max el 8455 Jul 24 14:47 11°\$01'14 27°41'38 8456 Jul 12 02:56 0°\$\$ 0°\$\$ 8455 Aug 25 00:09 0°\$\$\Or\$\$ 8455 Aug 25 01.09 0°\$\$\mathcal{n}\$ morning set 8456 Aug 08 15:13 15°\$\Or\$\$\Or\$\$\Or\$\$\Or\$\$\Or\$\$\Or\$\$\Or\$\$\Or	-							
Morning max el 8455 Jul 24 14:47 11°\$01'14 27°41'38 8456 Jul 12 02:56 0°\$\frac{1}{2}\$ 8455 Aug 08 09:59 0°\$\frac{1}{4}\$ 8455 Aug 25 00:09 0°\$\frac{1}{4}\$ morning set 8456 Aug 25 14:23 1°\$\text{m}13'58 asc. node 8456 Aug 11 16:48 21°\$\text{\$\alpha\$}24'11 asc. node 8455 Aug 25 19:50 1°\$\text{\$\alpha\$}42'26 max. Earth dist. 8456 Aug 11 16:48 21°\$\text{\$\alpha\$}24'11 asc. node 8455 Aug 25 19:50 1°\$\text{\$\alpha\$}42'26 max. Earth dist. 8456 Aug 11 16:48 21°\$\text{\$\alpha\$}44'13 asc. node 8456 Aug 12 12:57 0°\$\text{\$\alpha\$} max. Earth dist. 8456 Aug 15 12:57 0°\$\text{\$\alpha\$} max. Earth dist. 8456 Aug 15 12:57 0°\$\text{\$\alpha\$} max. Earth dist. 8456 Aug 15 12:57 0°\$\text{\$\alpha\$} minimum elong 8455 Sep 01 15:59 16°\$\text{\$\alpha\$}31'56 1°05'03 minimum elong 8456 Aug 16 01:53 1°\$\text{\$\alpha\$}01'035 0°43'31 evening rise 8455 Sep 08 12:05 1°\$\text{\$\alpha\$}32'20 minimum elong 8456 Aug 29 17:41 0°\$\text{\$\alpha\$} evening rise 8455 Sep 29 11:26 8°\$\text{\$\alpha\$}00'\text{\$\alpha\$} desc. node 8456 Sep 15 08:34 24°\$\text{\$\alpha\$}51'16 evening max el 8455 Oct 20 07:08 22°\$\text{\$\alpha\$}51'27 retrograde 8456 Oct 20 105:38 0°\$\text{\$\alpha\$} o°\$\text{\$\alpha\$} evening set 8456 Oct 20 23:40 16°\$\text{\$\alpha\$}10.24'20 evening set 8456 Oct 10 14:17 30°\$\text{\$\alpha\$} o°\$\text{\$\alpha\$} o°\$\$\al								27°55'24
Superior conj Superior conj Substitut Substit				270/11/38	morning max cr			27 33 24
Morning set 8455 Aug 25 00:09 0° m) morning set 8456 Aug 08 15:13 15° Ω 22'05 sac. node 8455 Aug 25 14:23 1° m 13'58 asc. node 8456 Aug 11 16:48 21° Ω 44'13 sac. node 8455 Aug 25 19:50 1° m 42'26 max. Earth dist. 8456 Aug 14 03:53 27° Ω 00'21 1.32109 AU max. Earth dist. 8455 Aug 31 21:02 14° m 47'05 1.31671 AU 8456 Aug 15 12:57 0° m⟩	morning max cr			27 41 30				
morning set 8455 Aug 25 14:23 1° 10 13'58 asc. node 8456 Aug 11 16:48 21° Ω44'13 asc. node 8455 Aug 25 19:50 1° 10 14'26 max. Earth dist. 8456 Aug 14 03:53 27° Ω00'21 1.32109 AU max. Earth dist. 8455 Aug 31 21:02 14° 10 14'17 1° 05'29 superior conj 8456 Aug 15 12:57 0° 10 10 15'59 16° 10 15'59 16° 10 15'59 16° 10 15'59 16° 10 15'59 16° 10 15'50 15'50 16° 10 15'50 15'50 16° 10 15'50 15'50 16° 10 15'50 15'50 16° 10 15'50 15'50 16° 10 15'50 15'50 16° 10 15'50 15'50 16° 10 15'50 15'50 16° 10 15'50 15'50 16° 10 15'50 15'50 16° 10 15'50 15'50 15'50 16° 10 15'50 15'50 15'50 16° 10 15'50 15'50 15'50 15'50 15'50 15'50 15'50 15'50 15'50 15'50 15'50 15'50 15'50 15'50 15'50 15'50 15'		•			morning set			
asc. node	morning set	-			•			
max. Earth dist. 8455 Aug 31 21:02 14° \(\mathbb{n}\) 47'05 1.31671 AU 8456 Aug 15 12:57 0° \(\mathbb{n}\) superior conj 8455 Sep 01 18:13 16° \(\mathbb{n}\) 44'17 1°05'29 superior conj 8456 Aug 16 03:43 1° \(\mathbb{n}\) 20'37 0°43'59 minimum elong 8455 Sep 01 15:59 16° \(\mathbb{n}\) 31'56 1°05'03 minimum elong 8456 Aug 16 01:53 1° \(\mathbb{n}\) 10'35 0°43'31 evening rise 8455 Sep 07 18:54 0° \(\mathbb{n}\) 455 Sep 08 12:05 1° \(\mathbb{n}\) 32'20 evening rise 8456 Aug 29 17:41 0° \(\mathbb{n}\) 46sc. node 8455 Sep 23 18:30 0° \(\mathbb{n}\) 46sc. node 8455 Sep 15 08:34 24° \(\mathbb{n}\) 51'16 evening max el evening max el 8455 Oct 06 08:50 15° \mathbb{n}\) 52'23 25° 48'51 evening set 8456 Sep 10 5:38 0° \mathbb{n}\) evening set 8455 Oct 20 07:08 22° \mathbb{n}\) 52'23 25° 48'51 retrograde 8456 Oct 10 14:17 30° \mathbb{n}\) evening set 8455 Oct 30 21:27 18° \mathbb{n}\) 48'26 0.58175 AU minimum elong 8455 Nov 02 23:40 16° \mathbb{n}\) 48'24'40 5°03'18 inferior conj 8456 Oct 13 20:10 27° \(\mathbb{n}\) 59'34'42 direct 8455 Nov 11 01:58 12° \mathbb{n}\) 19'27 15° \mathbb{n}\) 50'318 inferior conj 8456 Oct 22 04:37 23° \(\mathbb{n}\) 50'34'42 direct 8455 Nov 21 19:27 15° \mathbb{n}\) 50'39'3 direct 8456 Oct 24 20:19 23° \(\mathbb{n}\) 40'17 15° \(\mathbb{n}\) 50'34'42 direct 8455 Nov 21 19:27 15° \mathbb{n}\) 50'39'38 direct 8456 Oct 24 20:19 23° \(\mathbb{n}\) 40'17 15° \(\mathbb{n}\) 40'17 15° \(\mathbb{n}\) 50'318 direct 8456 Oct 24 20:19 23° \(\mathbb{n}\) 40'17	•	-				-		1 32109 AII
superior conj 8455 Sep 01 18:13 16°m44'17 1°05'29 superior conj 8456 Aug 16 03:43 1°m20'37 0°43'59 minimum elong 8455 Sep 01 15:59 16°m31'56 1°05'03 minimum elong 8456 Aug 16 01:53 1°m10'35 0°43'31 8455 Sep 07 18:54 0°£ evening rise 8456 Aug 22 23:27 16°m14'23 evening rise 8455 Sep 08 12:05 1°£32'20 8456 Aug 29 17:41 0°£ evening max el 8455 Sep 23 18:30 0°m desc. node 8456 Sep 15 08:34 24°£51'16 evening max el 8455 Sep 29 11:26 8°mL06'56 evening max el 8455 Oct 06 08:50 15°mL52'23 25°48'51 retrograde 8456 Sep 21 05:38 0°m evening set 8455 Oct 20 07:08 22°mL55'27 retrograde 8456 Sep 30 16:04 3°mL19'40 evening set 8455 Nov 02 23:40 16°mL36'11 -5°04'35 min. Earth dist. 8455 Nov 03 06:07 16°mL24'40 5°03'18 inferior conj 8455 Nov 03 06:07 16°mL24'40 5°03'18 inferior conj 8455 Nov 13 09:30 11°mL57'00 morning rise 8455 Oct 24 20:19 23°£49'17 15°mL59'23 direct 8456 Oct 24 20:19 23°£40'17 15°mL59'23 direct 8456 Oct 24 20:19 23°£40'17			-	1 21671 ATT	max. Earth dist.	-		1.32109 AO
minimum elong 8455 Sep 01 15:59 16° m 31'56 1°05'03 minimum elong 8456 Aug 16 01:53 1° m 10'35 0°43'31 evening rise 8455 Sep 07 18:54 0° Ω evening rise 8456 Aug 22 23:27 16° m 14'23 8456 Aug 29 17:41 0° Ω evening rise 8455 Sep 23 18:30 0° M desc. node 8456 Sep 15 08:34 24° Ω 51'16 evening max el 8455 Sep 29 11:26 8° M 06'56 evening max el 8455 Oct 06 08:50 15° M 52'23 25°48'51 8456 Sep 21 05:38 0° M evening set 8455 Oct 20 07:08 22° M 55'27 retrograde 8456 Sep 30 16:04 3° M 19'40 evening set 8455 Oct 26 12:35 21° M 24'20 evening set 8455 Oct 30 21:27 18° M 48'26 0.58175 AU minimum elong 8455 Nov 02 23:40 16° M 36'11 -5° 04'35 min. Earth dist. 8455 Nov 03 06:07 16° M 24'40 5° 03'18 inferior conj 8455 Nov 13 09:30 11° M 57'00 morning rise 8455 Nov 13 09:30 11° M 57'00 morning rise 8455 Nov 21 19:27 15° M 59'23 direct 8456 Oct 24 20:19 23° Ω 40'17 10 15° M 59'23 direct 8456 Oct 24 20:19 23° Ω 40'17	max. Earth dist.	6433 Aug 31 21.02	14 11/4/03	1.310/1 AU		6430 Aug 13 12.37	עוו ט	
minimum elong 8455 Sep 01 15:59 16° m 31'56 1°05'03 minimum elong 8456 Aug 16 01:53 1° m 10'35 0°43'31 evening rise 8455 Sep 07 18:54 0° Ω evening rise 8456 Aug 22 23:27 16° m 14'23 8456 Aug 29 17:41 0° Ω evening rise 8455 Sep 23 18:30 0° M desc. node 8456 Sep 15 08:34 24° Ω 51'16 evening max el 8455 Sep 29 11:26 8° M 06'56 evening max el 8455 Oct 06 08:50 15° M 52'23 25°48'51 8456 Sep 21 05:38 0° M evening set 8455 Oct 20 07:08 22° M 55'27 retrograde 8456 Sep 30 16:04 3° M 19'40 evening set 8455 Oct 26 12:35 21° M 24'20 evening set 8455 Oct 30 21:27 18° M 48'26 0.58175 AU minimum elong 8455 Nov 02 23:40 16° M 36'11 -5° 04'35 min. Earth dist. 8455 Nov 03 06:07 16° M 24'40 5° 03'18 inferior conj 8455 Nov 13 09:30 11° M 57'00 morning rise 8455 Nov 13 09:30 11° M 57'00 morning rise 8455 Nov 21 19:27 15° M 59'23 direct 8456 Oct 24 20:19 23° Ω 40'17 10 15° M 59'23 direct 8456 Oct 24 20:19 23° Ω 40'17	superior coni	8455 Sep. 01 18:12	16°Mm///17	1°05'29	superior coni	8456 Aug 16 03:42	10mつい2フ	0°43'50
evening rise		•	-			•		
evening rise 8455 Sep 08 12:05 8456 Aug 29 17:41 0° \(\Omega\) desc. node 8456 Sep 15 08:34 24° \(\Omega\)51'16 desc. node 8456 Sep 15 08:34 24° \(\Omega\)51'16 desc. node 8456 Sep 16 22:11 26° \(\Omega\)26'00 24° 18'56 evening max el 8455 Oct 06 08:50 15° \(\Omega\)52'23 25° 48'51 retrograde 8456 Sep 16 22:11 26° \(\Omega\)26'00 24° 18'56 evening max el 8455 Oct 20 07:08 22° \(\Omega\)52'7 retrograde 8456 Sep 21 05:38 0° \(\Omega\) evening set 8456 Oct 20 07:08 22° \(\Omega\)52'7 retrograde evening set 8456 Oct 05 16:46 2° \(\Omega\)23'50 min. Earth dist. 8456 Oct 10 14:17 30° \(\Omega\) inferior conj 8455 Nov 02 23:40 16° \(\Omega\)36'11 -5°04'35 min. Earth dist. 8456 Oct 11 09:01 29° \(\Omega\)31'53 0.56357 AU minimum elong 8455 Nov 03 06:07 16° \(\Omega\)24'40 5° 03'18 minimum elong 8456 Oct 13 20:10 27° \(\Omega\)59'46 -5° 34'49 morning rise 8455 Nov 13 09:30 11° \(\Omega\)57'00 morning rise 8456 Oct 22 04:37 23° \(\Omega\)58'59 asc. node 8456 Nov 21 19:27 15° \(\Omega\)59'23 direct 8456 Oct 24 20:19 23° \(\Omega\)40'17	minimum ciong	•	-	1 03 03	_	•	-•	0 43 31
desc. node 8455 Sep 23 18:30 0°M desc. node 8456 Sep 15 08:34 24°♣51'16 desc. node 8455 Sep 29 11:26 8°M.06'56 evening max el 8456 Sep 16 22:11 26°♣26'00 24°18'56 evening max el 8455 Oct 06 08:50 15°M.52'23 25°48'51 8456 Sep 21 05:38 0°M retrograde 8455 Oct 20 07:08 22°M.55'27 retrograde 8456 Sep 30 16:04 3°M.19'40 evening set 8455 Oct 26 12:35 21°M.24'20 evening set 8456 Oct 05 16:46 2°M.23'50 min. Earth dist. 8455 Oct 30 21:27 18°M.48'26 0.58175 AU 8456 Oct 10 14:17 30°R.♣ inferior conj 8455 Nov 02 23:40 16°M.36'11 -5°04'35 min. Earth dist. 8456 Oct 11 09:01 29°♣31'53 0.56357 AU minimum elong 8455 Nov 03 06:07 16°M.24'40 5°03'18 inferior conj 8456 Oct 13 20:10 27°♣59'46 -5°34'49 morning rise 8455 Nov 11 01:58 12°M.14'04 minimum elong 8456 Oct 13 21:38 27°♣57'29 5°34'42 direct 8455 Nov 13 09:30 11°M.57'00 morning rise 8456 Oct 24 20:19 23°♣58'59 asc. node 8455 Nov 21 19:27 15°M.59'23 direct 8456 Oct 24 20:19 23°♣40'17	avanina riaa	•			evening rise			
desc. node 8455 Sep 29 11:26 8° Mo6'56 evening max el 8456 Sep 16 22:11 26° ♣26'00 24° 18'56 evening max el 8455 Oct 06 08:50 15° Mo52'23 25° 48'51 retrograde 8456 Sep 21 05:38 0° Mole 19'40 evening set 8456 Sep 30 16:04 3° Mole 19'40 evening set 8456 Oct 05 16:46 2° Mole 23' Mole 19'40 evening set 8456 Oct 10 14:17 30° № inferior conj 8455 Nov 02 23:40 16° Mole 11 -5° 04'35 min. Earth dist. 8456 Oct 10 14:17 30° № inferior conj 8455 Nov 03 06:07 16° Mole 11 -5° 04'35 min. Earth dist. 8456 Oct 13 20:10 27° ♣59'46 -5° 34'49 morning rise 8455 Nov 11 01:58 12° Mole 14'04 minimum elong 8456 Oct 13 21:38 27° ♣57'29 5° 34'42 direct 8456 Nov 13 09:30 11° Mos7'00 morning rise 8456 Oct 24 20:19 23° ♣40'17	evening rise	=			1 1.	-		
evening max el 8455 Oct 06 08:50 15°M.52'23 25°48'51 8456 Sep 21 05:38 0°M. retrograde 8455 Oct 20 07:08 22°M.55'27 retrograde 8456 Sep 30 16:04 3°M.19'40 evening set 8455 Oct 26 12:35 21°M.24'20 evening set 8456 Oct 05 16:46 2°M.23'50 min. Earth dist. 8455 Oct 30 21:27 18°M.48'26 0.58175 AU 8456 Oct 10 14:17 30°R. inferior conj 8455 Nov 02 23:40 16°M.36'11 -5°04'35 min. Earth dist. 8456 Oct 11 09:01 29°. 31'53 0.56357 AU minimum elong 8455 Nov 03 06:07 16°M.24'40 5°03'18 inferior conj 8456 Oct 13 20:10 27°. 59'46 -5°34'49 morning rise 8455 Nov 11 01:58 12°M.14'04 minimum elong 8456 Oct 13 21:38 27°. 57'29 5°34'42 direct 8455 Nov 13 09:30 11°M.57'00 morning rise 8456 Oct 22 04:37 23°. 58'59 asc. node 8455 Nov 21 19:27 15°M.59'23 direct 8456 Oct 24 20:19 23°.	11-	•				•		24919157
retrograde 8455 Oct 20 07:08 22° \$\mathbb{\text{L55'27}}\$ retrograde 8456 Sep 30 16:04 3° \$\mathbb{\text{L19'40}}\$ evening set 8455 Oct 26 12:35 21° \$\mathbb{\text{L24'20}}\$ evening set 8456 Oct 05 16:46 2° \$\mathbb{\text{L23'50}}\$ min. Earth dist. 8455 Oct 30 21:27 18° \$\mathbb{\text{L48'26}}\$ 0.58175 AU 8456 Oct 10 14:17 30° \$\mathbb{\text{R}}\$\$ inferior conj 8455 Nov 02 23:40 16° \$\mathbb{\text{L36'11}}\$ -5° 04'35 min. Earth dist. 8456 Oct 11 09:01 29° \$\mathbb{\text{L31'53}}\$ 0.56357 AU minimum elong 8455 Nov 03 06:07 16° \$\mathbb{\text{L24'40}}\$ 5° 03' 18 inferior conj 8456 Oct 13 20:10 27° \$\mathbb{\text{L59'46}}\$ -5° 34' 49 morning rise 8455 Nov 11 01:58 12° \$\mathbb{\text{L4'04}}\$ minimum elong 8456 Oct 13 21:38 27° \$\mathbb{\text{L5P'26}}\$ 5° 34' 42 direct 8455 Nov 21 19:27 15° \$\mathbb{\text{L5P'02}}\$ direct 8455 Nov 21 19:27 15° \$\mathbb{\text{L5P'23}}\$ direct 8456 Oct 24 20:19 23° \$\mathbb{\text{L9'17}}\$		•		25040151	evening max ei	•		24 10 30
evening set 8455 Oct 26 12:35 21° L24′20 evening set 8456 Oct 05 16:46 2° L23′50 min. Earth dist. 8455 Oct 30 21:27 18° L48′26 0.58175 AU 8456 Oct 10 14:17 30° R \(\overline{\Omega}\) inferior conj 8455 Nov 02 23:40 16° L36′11 -5° 04′35 min. Earth dist. 8456 Oct 11 09:01 29° \(\overline{\Omega}\) 31′53 0.56357 AU minimum elong 8455 Nov 03 06:07 16° L24′40 5° 03′18 inferior conj 8456 Oct 13 20:10 27° \(\overline{\Omega}\) 5° 34′49 morning rise 8455 Nov 11 01:58 12° L14′04 minimum elong 8456 Oct 13 21:38 27° \(\overline{\Omega}\) 5° 34′42 direct 8455 Nov 21 19:27 15° L59′23 direct 8456 Oct 24 20:19 23° \(\overline{\Omega}\) 40′17	•			23 40 31	ratraceada	•		
min. Earth dist. 8455 Oct 30 21:27 18°M48'26 0.58175 AU 8456 Oct 10 14:17 30°R♀ inferior conj 8455 Nov 02 23:40 16°M36'11 -5°04'35 min. Earth dist. 8456 Oct 11 09:01 29°♀31'53 0.56357 AU minimum elong 8455 Nov 03 06:07 16°M24'40 5°03'18 inferior conj 8456 Oct 13 20:10 27°♀59'46 -5°34'49 morning rise 8455 Nov 11 01:58 12°M14'04 minimum elong 8456 Oct 13 21:38 27°♀59'29 5°34'42 direct 8455 Nov 13 09:30 11°M57'00 morning rise 8456 Oct 22 04:37 23°♀58'59 asc. node 8455 Nov 21 19:27 15°M59'23 direct 8456 Oct 24 20:19 23°♀40'17	•				•	-		
inferior conj 8455 Nov 02 23:40 16° 11.5° 04'35 min. Earth dist. 8456 Oct 11 09:01 29° ♣31'53 0.56357 AU minimum elong 8455 Nov 03 06:07 16° 11.24'40 5° 03'18 inferior conj 8456 Oct 13 20:10 27° ♣59'46 -5° 34'49 morning rise 8455 Nov 11 01:58 12° 11.4'04 minimum elong 8456 Oct 13 21:38 27° ♣57'29 5° 34'42 direct 8455 Nov 13 09:30 11° 11.57'00 morning rise 8456 Oct 22 04:37 23° ♣58'59 asc. node 8455 Nov 21 19:27 15° 11.59'23 direct 8456 Oct 24 20:19 23° ♣40'17	•			0.50175 ATT	evening set			
minimum elong 8455 Nov 03 06:07 16°M24'40 5°03'18 inferior conj 8456 Oct 13 20:10 27°♣59'46 -5°34'49 morning rise 8455 Nov 11 01:58 12°M14'04 minimum elong 8456 Oct 13 21:38 27°♣57'29 5°34'42 direct 8455 Nov 13 09:30 11°M57'00 morning rise 8456 Oct 22 04:37 23°♣58'59 asc. node 8455 Nov 21 19:27 15°M59'23 direct 8456 Oct 24 20:19 23°♣40'17					1 P 4 11 1			0.56257 : ***
morning rise 8455 Nov 11 01:58 12° 11.4'04 minimum elong 8456 Oct 13 21:38 27° 12.57'29 5°34'42 direct 8455 Nov 13 09:30 11° 11.57'00 morning rise 8456 Oct 22 04:37 23° 15° 15° 15.59'23 direct 8456 Oct 24 20:19 23° 14'017 direct 8456 Oct 24 20:19 23° 14'017	3							
direct 8455 Nov 13 09:30 11° \$\mathbb{N}\$57'00 morning rise 8456 Oct 22 04:37 23° \$\mathbb{\Omega}\$58'59 asc. node 8455 Nov 21 19:27 15° \$\mathbb{N}\$59'23 direct 8456 Oct 24 20:19 23° \$\mathbb{\Omega}\$40'17	•			5~05'18				
asc. node 8455 Nov 21 19:27 15° ML59′23 direct 8456 Oct 24 20:19 23° ♣ 40′17	•				_			5~34'42
					•			
morning max ei 8455 Nov 21 20:44 16*IIL0226 18*4227 morning max el 8456 Nov 03 15:59 28°№18'31 19°41'37				10040107				10041127
	morning max el	8455 Nov 21 20:44	16~IIL02'26	18~42"2"/	morning max el	8456 Nov 03 15:59	28° ± 18'31	19~41'37

	8456 Nov 05 07:37	0° M .		morning max el	8457 Oct 16 22:18	9° Ω 46'19	21°02'58
asc. node	8456 Nov 07 16:28	2°M51'21		asc. node	8457 Oct 25 13:27	20° Ω 40'24	21 0200
morning set	8456 Nov 21 06:06	26°M36'12			8457 Oct 30 22:07	0°M	
5 - 5	8456 Nov 22 22:22	0° ∡ 7		morning set	8457 Nov 05 14:18	11° M 19'19	
				J			
superior conj	8456 Nov 29 03:05	12° ∡ 28′19	1°27'03	superior conj	8457 Nov 12 22:40	26°M39'17	1°37'47
minimum elong	8456 Nov 29 05:40	12° ₰ ⁴41'07	1°26'59	minimum elong	8457 Nov 12 24:00	26°M46'10	1°37'52
max. Earth dist.	8456 Dec 05 06:00	24° х 13′26	1.37529 AU		8457 Nov 14 13:51	0° ∡	
	8456 Dec 08 09:58	0°ಕ		max. Earth dist.	8457 Nov 17 15:22	6° ₰ 08'01	1.35541 AU
evening rise	8456 Dec 08 23:33	1° る 00'37		evening rise	8457 Nov 21 16:29	13° ≯ 54'38	
desc. node	8456 Dec 12 07:26	6° る 49'07		desc. node	8457 Nov 29 04:29	27° √ 17'14	
	8456 Dec 27 01:03	0° ≈			8457 Nov 30 19:18	0°ಕ	
evening max el	8457 Jan 13 13:59	21° ≈ 51'46	25°21'34		8457 Dec 21 21:12	0° ≈	
retrograde	8457 Jan 25 16:45	28° ≈ 51′06		evening max el	8457 Dec 27 03:06	5° ≈ 36'40	26°25'25
evening set	8457 Jan 31 12:48	26° ≈ 26′20		retrograde	8458 Jan 09 00:08	12° ≈ 52'02	
asc. node	8457 Feb 03 15:39	23°≈11'40		evening set	8458 Jan 15 08:24	10°≈18'39	
min. Earth dist.	8457 Feb 04 22:39	21°≈35'02	0.67529 AU	min. Earth dist.	8458 Jan 19 11:46	6°≈02'04	0.66499 AU
inferior conj	8457 Feb 06 04:29	19°≈58'40	0°49'41	inferior conj	8458 Jan 21 05:14	3°≈56'42	
minimum elong	8457 Feb 06 03:17	20°≈02'31	0°49'20	minimum elong	8458 Jan 21 05:23	3°≈56'12	
morning rise	8457 Feb 11 18:08 8457 Feb 15 05:16	14°≈04'23		transit middle	8458 Jan 21 05:23 8458 Jan 21 02:43	3°≈56'12	0°06'03
direct		12°≈55'24	19°17'42	transit begin transit end	8458 Jan 21 02:43 8458 Jan 21 08:04	4°≈04'20	
morning max el	8457 Feb 22 06:19 8457 Mar 04 12:44	16° ≈ 48'40 0° 米	19 1/42	asc. node	8458 Jan 21 12:44	3°≈48'05 3°≈34'00	
greatest brilliancy	8457 Mar 07 07:20	0 K 4°₩06'06	-0.7m	asc. node	8458 Jan 24 18:33	30% そろ	
desc. node	8457 Mar 10 07:00	8° ₩ 36'18	-0.7111	morning rise	8458 Jan 27 03:13	28°る12'34	
morning set	8457 Mar 18 08:33	20° ¥ 58'44		direct	8458 Jan 30 03:38	28 3 123 4 27° 3 21'20	
morning set	8457 Mar 24 04:14	0°Υ		uncer	8458 Feb 04 18:18	0°≈	
max. Earth dist.	8457 Mar 31 13:00	11° Υ 31'43	1.44965 AU	morning max el	8458 Feb 05 17:35	0°≈54'16	18°30'59
man. Darur alov.	0.07.1141 31 13.00	11 (31 13	1.1.300 110	desc. node	8458 Feb 25 03:57	28°≈55'44	10 300)
superior conj	8457 Apr 03 22:54	16° Ƴ 55'50	-2°07'47		8458 Feb 25 20:10	0°) €	
minimum elong	8457 Apr 03 18:12	16° Ƴ 37'11		morning set	8458 Feb 26 04:58	0°) (34′50	
	8457 Apr 12 01:46	0°8		3			
evening rise	8457 Apr 18 07:23	10° 8 15'03		superior conj	8458 Mar 14 04:59	25°) 44′56	-1°44'28
•	8457 Apr 30 10:48	$\Pi^{\circ}0$		minimum elong	8458 Mar 13 19:30	25°) €07'49	1°43'37
asc. node	8457 May 02 14:31	3° Ⅲ 10′13		max. Earth dist.	8458 Mar 14 07:31	25° ¥ 54'50	1.45510 AU
evening max el	8457 May 07 12:54	9° Ⅱ 14'51	18°21'00		8458 Mar 16 22:09	$0^{\circ}\Upsilon$	
retrograde	8457 May 13 22:42	12° Ⅱ 41'13		evening rise	8458 Mar 29 22:45	20° Y 30'59	
evening set	8457 May 16 23:38	11° Ⅱ 50′38			8458 Apr 04 22:15	9° 8	
inferior conj	8457 May 22 20:26	6° Ⅱ 24'08	3°12'44	greatest brilliancy	8458 Apr 08 00:17	4° 8 51'22	-0.8m
minimum elong	8457 May 22 21:58	6° Ⅱ 19'41		asc. node	8458 Apr 19 11:36	21° 8 11'32	
min. Earth dist.	8457 May 25 05:03	3° Ⅱ 41'11	0.64189 AU	evening max el	8458 Apr 20 23:31	22° 8 48'32	18°53'41
morning rise	8457 May 28 19:15	0° Ⅱ 09′21		retrograde	8458 Apr 27 17:20	26° 8 33'29	
	8457 May 28 23:57	30° ₹8		evening set	8458 May 01 01:43	25° 8 28'39	
direct	8457 Jun 04 12:16	27° 8 27'30		inferior conj	8458 May 06 15:09	19° 8 45'54	
desc. node	8457 Jun 06 06:41	27° 8 37'37		minimum elong	8458 May 06 15:21	19° 8 45'15	3°22'43
	8457 Jun 11 18:12	0°II		min. Earth dist.	8458 May 08 08:28	17° 8 36'13	0.65894 AU
morning max el	8457 Jun 18 05:45	5° Ⅱ 27'24	27°32'25	morning rise	8458 May 12 04:26	13° 8 27'36	
marning sat	8457 Jul 06 20:58	0°©		direct	8458 May 18 14:46	10° 8 41'04	
morning set	8457 Jul 23 08:09 8457 Jul 23 19:20	29° © 04'42 0° Ω		desc. node	8458 May 24 03:41	12° と 20'51 18° と 26'46	26020126
max. Earth dist.	8457 Jul 28 03:48	0 3 <i>t</i> 8° Ω 51'46	1.33025 AU	morning max el	8458 May 31 16:22 8458 Jun 10 10:00	18 O 20 40 0° Ⅱ	20 38 30
asc. node	8457 Jul 29 13:47	11° Ω 50'04	1.33023 AU		8458 Jun 29 20:46	0°©	
asc. Houc	043/Jul 29 13.4/	11 0630 04		morning set	8458 Jul 06 13:58	12° © 12'40	
superior conj	8457 Jul 31 09:16	15° Ω 41'14	0°18'16	max. Earth dist.	8458 Jul 10 17:28		1.34419 AU
minimum elong	8457 Jul 31 08:23	15° Ω 36'29	0°17'57	max. Earth dist.	0430 Jul 10 17.20	20 31312	1.54417710
evening rise	8457 Aug 07 10:57	0° m 53'26	0 1/ 5/	superior conj	8458 Jul 15 08:35	29°539'20	-0°10'58
e vennig 1150	8457 Aug 07 00:54	0° m)		minimum elong	8458 Jul 15 09:12	29°5542'31	0°11'00
	8457 Aug 23 17:03	0∘ ರ ೧.೫		behind sun begin	8458 Jul 15 04:55	29°520'24	
evening max el	8457 Aug 29 09:49	6° £ 37'53	22°39'26	behind sun end	8458 Jul 15 13:28	0° Ω 04'39	
desc. node	8457 Sep 02 05:39	9° ≙ 51'32			8458 Jul 15 12:34	$0^{\circ}\Omega$	
retrograde	8457 Sep 11 12:48	13° ≏ 10'52		asc. node	8458 Jul 16 10:47	1° Ω 55'32	
evening set	8457 Sep 15 01:12	12° £ 43'41		evening rise	8458 Jul 22 20:33	15° Ω 23′09	
min. Earth dist.	8457 Sep 22 17:18	9° ≙ 18'40	0.55100 AU	-	8458 Jul 30 05:52	0° m	
inferior conj	8457 Sep 23 22:14	8° ≏ 37'31	-5°18'39	evening max el	8458 Aug 11 04:53	17° m 04'46	21°06'41
minimum elong	8457 Sep 23 16:08	8° ≏ 46'12	5°17'49	desc. node	8458 Aug 20 02:44	22°M 36'05	
morning rise	8457 Oct 02 09:00	4° £ 49'19		retrograde	8458 Aug 23 01:43	22° m 57'39	
direct	8457 Oct 05 13:03	4° ≏ 26′20		evening set	8458 Aug 25 09:14	22° Mp 45'06	

	0450 0 02 14 55	1.00 m - 4.0100	4007117	1 1	0450 4 06 22 40	20 m- 4 412 C	
inferior conj	8458 Sep 03 14:55	18° m 48'09		desc. node	8459 Aug 06 23:49	2° Mp 44'26	
minimum elong	8458 Sep 03 05:20	19° m 01'40	4°04'36		8459 Aug 12 22:23	30°R Ω	
min. Earth dist.	8458 Sep 04 02:09	18° m 32'17	0.54676 AU	inferior conj	8459 Aug 14 12:30	29° Ω 02'27	
morning rise	8458 Sep 12 01:55	14° m 53'46		minimum elong	8459 Aug 14 06:13	29° Ω 12'04	2°15'16
direct	8458 Sep 15 21:08	14° m 22'44		min. Earth dist.	8459 Aug 16 13:26	27° Ω 47'38	0.55218 AU
morning max el	8458 Sep 28 17:06	20° m 29'41	22°42'07	morning rise	8459 Aug 22 20:44	24° Ω 42'03	
	8458 Oct 06 16:44	0∘ ত		direct	8459 Aug 27 10:38	23° Ω 55'55	
asc. node	8458 Oct 12 10:25	9° ഫ 13'25			8459 Sep 09 09:53	O° Mp	
morning set	8458 Oct 21 01:11	26° ≙ 08'28		morning max el	8459 Sep 10 05:43	0° Mp45′39	24°28'10
	8458 Oct 22 20:43	0°M		asc. node	8459 Sep 29 07:23	28° m 18'58	
					8459 Sep 30 04:21	0∘ ⊽	
superior conj	8458 Oct 28 01:55	11° M .11'41	1°41'17	morning set	8459 Oct 05 12:55	10° ≙ 57'44	
minimum elong	8458 Oct 28 01:57	11°ML11'51	1°41'24	. 8			
max. Earth dist.	8458 Oct 31 08:06	18°ML03'15	1.33899 AU	superior conj	8459 Oct 12 10:07	25° £ 56'19	1°38'22
evening rise	8458 Nov 04 23:53	27°M27'45	1.55077 110	minimum elong	8459 Oct 12 10:07	25° ⊆ 50′26	1°38'24
evening rise	8458 Nov 06 07:14	27 llG27 43 0° x 7		minimum ciong	8459 Oct 14 06:59	0°M	1 36 24
JJ.				Fauth 4:-4			1 22(00 AII
desc. node	8458 Nov 16 01:31	17° ₹ 30'14		max. Earth dist.	8459 Oct 14 09:06	0°M11'28	1.32690 AU
	8458 Nov 24 01:44	0°る		evening rise	8459 Oct 19 18:08	11°M29'35	
evening max el	8458 Dec 09 16:06	19° る 11'07	27°10'16		8459 Oct 29 13:16	0° ∡	
retrograde	8458 Dec 23 01:46	26° පි 32'08		desc. node	8459 Nov 02 22:33	7° ∡ ¹20'39	
evening set	8458 Dec 29 20:17	23° る 55'59			8459 Nov 19 18:30	0°ಕ	
min. Earth dist.	8459 Jan 02 18:02	20° ප 13'13	0.65114 AU	evening max el	8459 Nov 22 03:43	2° පි 23'11	27°29'10
inferior conj	8459 Jan 04 23:09	17° る 45'37	-1°09'16	retrograde	8459 Dec 05 20:46	9° ට 41'42	
minimum elong	8459 Jan 05 01:13	17° る 39'52	1°08'14	evening set	8459 Dec 12 21:48	7° る 10'53	
asc. node	8459 Jan 08 09:47	14° ප 13'32		min. Earth dist.	8459 Dec 16 15:23	3° る 59'03	0.63409 AU
morning rise	8459 Jan 11 07:32	12° る 14'02		inferior conj	8459 Dec 19 07:34	1° る 18'19	-2°17'44
direct	8459 Jan 13 23:05	11° ⋜ 36'46		minimum elong	8459 Dec 19 11:55	1° る 07'23	
morning max el	8459 Jan 20 09:23	15° පි 00'31	18°00'55		8459 Dec 20 15:16	30°R. ✓	
morning max or	8459 Jan 31 04:23	0° ≈	10 00 33	morning rise	8459 Dec 26 03:56	26° ₹ 02'11	
morning set	8459 Feb 07 06:55	11°≈39'27		asc. node	8459 Dec 26 06:50	25°×759'32	
desc. node	8459 Feb 12 00:54	11 ≈3927 19°≈27'39		direct	8459 Dec 28 12:58	25° 🖈 39'32 25° 🖈 34'59	
desc. node		19 ≈ 27 39 0° H					17040100
	8459 Feb 18 13:19	0°π		morning max el	8460 Jan 04 02:45	28° ₹ 58'55	17°48'08
					8460 Jan 05 02:08	0°る 	
superior conj	8459 Feb 21 14:15	4° ∺ 50′21		morning set	8460 Jan 20 11:09	24° る 00'14	
minimum elong	8459 Feb 21 06:44	4° ∺ 20′36	1°04'26		8460 Jan 23 22:32	0° ≈	
max. Earth dist.	8459 Feb 25 02:58	10° ∺ 24'35	1.45315 AU	desc. node	8460 Jan 29 21:49	10° ≈ 07'16	
evening rise	8459 Mar 09 18:08	0° Y 02'47					
	8459 Mar 09 17:25	0 ° $\mathbf{\Upsilon}$		superior conj	8460 Feb 01 19:03	14° ≈ 54'07	-0°20'59
greatest brilliancy	8459 Mar 23 12:46	21° Y 01'18	-0.7m	minimum elong	8460 Feb 01 16:48	14° ≈ 44'54	0°20'30
	8459 Mar 29 20:36	$_{0\circ}$ 8		max. Earth dist.	8460 Feb 07 20:59	24° ≈ 45′02	1.44406 AU
evening max el	8459 Apr 04 05:44	6° 8 26'11	19°42'54		8460 Feb 11 04:31	0° ∀	
asc. node	8459 Apr 06 08:40	8° 8 22'44		evening rise	8460 Feb 17 05:13	9°) 22'14	
retrograde	8459 Apr 11 15:05	10° 8 40'25		Ü	8460 Mar 01 22:58	$_{0}$ $^{\circ}$ Υ	
evening set	8459 Apr 15 07:42	9° 8 20'47		evening max el	8460 Mar 17 06:35	20° Y 05'37	20°46'23
inferior conj	8459 Apr 20 16:51	3° 8 23'33	3°18'40	asc. node	8460 Mar 23 05:45	24° Υ 29'44	
minimum elong	8459 Apr 20 15:54	3° 8 26'42	3°18'29	retrograde	8460 Mar 25 13:35	24° Y 57'15	
min. Earth dist.	8459 Apr 21 19:22	_	0.67178 AU	evening set	8460 Mar 29 15:35	23°\bar{Y}22'22	
iiiii. Eartii tiist.	8459 Apr 23 07:17	30°RΥ	0.07178 AU	inferior conj	8460 Apr 03 22:57	17° Υ 12'37	2002145
	-					17° Y 1237	3°02'24
morning rise	8459 Apr 25 23:47	27°Υ05'36		minimum elong	8460 Apr 03 21:11		
direct	8459 May 01 23:29	24° Y 25'30		min. Earth dist.	8460 Apr 04 11:43	16° Y 28'40	0.68012 AU
desc. node	8459 May 11 00:40	28° Y 48'50		morning rise	8460 Apr 09 02:34	10° Y 57′22	
	8459 May 12 08:33	0° 8		direct	8460 Apr 14 13:18	8° Ƴ 32'19	
morning max el	8459 May 14 02:07	1° 8 41'07	25°22'52	morning max el	8460 Apr 25 11:06	15° Y 03′23	23°55'26
	8459 Jun 04 11:25	Π $^{\circ}0$		desc. node	8460 Apr 26 21:37	16° Ƴ 33'36	
morning set	8459 Jun 19 04:27	24° Ⅱ 34'40			8460 May 07 16:20	9° 8	
	8459 Jun 22 03:24	0 \circ \odot			8460 May 27 09:46	$\Pi^{\circ}0$	
max. Earth dist.	8459 Jun 22 20:15	1°5918'48	1.36266 AU	morning set	8460 May 30 22:25	5° Ⅱ 57'11	
				max. Earth dist.	8460 Jun 03 16:48	12° Ⅲ 31′28	1.38434 AU
superior conj	8459 Jun 28 22:52	13° © 07'54	-0°42'28				
minimum elong	8459 Jun 29 01:26	13°920'41		superior conj	8460 Jun 11 00:41	25° ∏ 58'38	-1°14'14
asc. node	8459 Jul 03 07:46	21°956'50	0 12 07	minimum elong	8460 Jun 11 05:17	26° I I20'30	
				minimum etong		26° П 2030	1 1343
evening rise	8459 Jul 07 02:06	29°937'22		1	8460 Jun 13 03:14		
	8459 Jul 07 06:34	0°N	10050110	asc. node	8460 Jun 19 04:46	11°950'16	
evening max el	8459 Jul 24 12:58	28° Ω 11'42	19°50'48	evening rise	8460 Jun 20 01:00	13° © 29'32	
	8459 Jul 26 13:31	0° m)			8460 Jun 28 22:39	0° Ω	
retrograde	8459 Aug 03 17:03	3° m 12'47		evening max el	8460 Jul 06 09:41	10° Ω 03'53	18°55'25
evening set	8459 Aug 05 13:47	3° Mp 03'25		retrograde	8460 Jul 14 23:00	14° Ω 18'07	

evening set	8460 Jul 16 22:01	14° Ω 05'40		inferior conj	8461 Jul 06 15:27	21° © 17'55	1°11'25
desc. node	8460 Jul 23 20:54	14 ∂ 2 03 40 10° Ω 41'23		minimum elong	8461 Jul 06 17:45	21° © 17'33	1°10'27
inferior conj	8460 Jul 25 03:09	9° Ω 48'39	0023102	min. Earth dist.	8461 Jul 10 00:47	18°930'33	0.58616 AU
minimum elong	8460 Jul 25 02:11	9° Ω 50'21	0°22'49	desc. node	8461 Jul 10 17:58	18 \$3033 17°\$57'25	0.38010 AU
min. Earth dist.	8460 Jul 28 04:20	7° Ω 40'05	0.56625 AU		8461 Jul 14 02:05	17 93723 15°946'33	
		4° Ω 51'54	0.30023 AU	morning rise	8461 Jul 14 02:03 8461 Jul 20 05:39	13°9946'33 14°9906'11	
morning rise	8460 Aug 02 03:05			direct			27917125
direct	8460 Aug 07 13:13	3° Ω 41'54	26004155	morning max el	8461 Aug 03 14:58	21°950'44	27°16'25
morning max el	8460 Aug 21 19:23	11° Ω 03'51	26°04'55		8461 Aug 10 18:46	$\Omega^{\circ}\Omega$	
	8460 Sep 05 08:45	0° m		_	8461 Aug 29 06:47	0° т р	
asc. node	8460 Sep 15 04:22	17° m 48'37		asc. node	8461 Sep 02 01:19	7°₩34'53	
morning set	8460 Sep 18 23:55	25° m 42'39		morning set	8461 Sep 03 08:29	10° m 17'38	
	8460 Sep 20 23:44	0∘ ত					
				superior conj	8461 Sep 10 08:56	25° m 35'44	1°15'45
superior conj	8460 Sep 25 21:06		1°29'42	minimum elong	8461 Sep 10 06:42	25° Mp 23'22	1°15'24
minimum elong	8460 Sep 25 19:15	10° ≏ 36'18	1°29'32	max. Earth dist.	8461 Sep 10 02:36	25° m 00'36	1.31640 AU
max. Earth dist.	8460 Sep 26 16:26	12° ≙ 33'25	1.31939 AU		8461 Sep 12 08:33	0∘ ⊽	
evening rise	8460 Oct 02 20:13	25° ≏ 51'55		evening rise	8461 Sep 17 03:34	10° ≏ 26'38	
	8460 Oct 04 20:19	0°M₊			8461 Sep 27 02:40	0° M ₊	
desc. node	8460 Oct 19 19:38	26°M39'16		desc. node	8461 Oct 06 16:45	15°M13'01	
	8460 Oct 22 01:44	0° ⊼		evening max el	8461 Oct 16 12:42	26°M48'27	26°29'48
evening max el	8460 Nov 03 11:34	14° ₹ 59'45	27°16'27		8461 Oct 20 07:44	0° ∡ ¹	
retrograde	8460 Nov 17 08:03	22° ⋌ 11'55		retrograde	8461 Oct 30 10:37	3° ∡ ¹54'47	
evening set	8460 Nov 24 09:32	19° ₰ 56'08		evening set	8461 Nov 06 03:07	2° ҂ 04'25	
min. Earth dist.	8460 Nov 28 02:11	17° ∡ ¹08'52	0.61452 AU		8461 Nov 09 09:33	30°RM₊	
inferior conj	8460 Dec 01 03:21	14° ∡ ¹26'52	-3°28'08	min. Earth dist.	8461 Nov 10 02:10	29°M29'37	0.59360 AU
minimum elong	8460 Dec 01 09:51	14° ∡ 12'25	3°25'44	inferior conj	8461 Nov 13 06:57	27° ™ 01'29	-4°33'37
morning rise	8460 Dec 08 12:25	9° ∡ ¹29'39		minimum elong	8461 Nov 13 14:17	26° ™ 47'17	4°31'40
direct	8460 Dec 10 17:49	9° ∡ ¹08'50		morning rise	8461 Nov 21 03:49	22°M26'25	
asc. node	8460 Dec 12 03:53	9° ∡ 17'36		direct	8461 Nov 23 09:18	22°M08'49	
morning max el	8460 Dec 17 18:31	12° ҂ 741'30	17°53'32	asc. node	8461 Nov 29 00:55	24°M09'00	
C	8460 Dec 29 10:16	0°₹		morning max el	8461 Dec 01 05:14	25°M59'11	18°18'37
morning set	8461 Jan 02 11:08	7° る 17'03		Z .	8461 Dec 04 16:19	0° √	
8				morning set	8461 Dec 17 01:06	21° х 12'44	
superior conj	8461 Jan 13 01:28	26° ට 11'35	0°20'06	. 8	8461 Dec 21 16:09	0° ට	
minimum elong	8461 Jan 13 03:13	26° ♂ 19'06	0°20'00			• •	
viong	8461 Jan 15 06:44	0°≈	0 20 00	superior conj	8461 Dec 26 07:22	8° ප 36'24	0°53'11
desc. node	8461 Jan 15 18:46	0°≈51'10		minimum elong	8461 Dec 26 10:40	8° る 51'28	0°52'54
max. Earth dist.	8461 Jan 20 11:38	8° ≈ 41'39	1.42885 AU	desc. node	8462 Jan 02 15:47	21° ප 36'07	0 020.
evening rise	8461 Jan 26 23:29	19°≈07'02	1.42003 110	max. Earth dist.	8462 Jan 02 21:28	21° ろ 00'25	1.40922 AU
evening rise	8461 Feb 03 01:03	0° ∀		evening rise	8462 Jan 07 12:05	29° ප් 42'51	1.40)22 /10
	8461 Feb 24 15:47	0°Υ		evening rise	8462 Jan 07 16:16	0°≈	
evening max el	8461 Feb 28 02:08	3° Υ 46'14	22°00'23		8462 Jan 27 13:04	0° ∀	
retrograde	8461 Mar 09 11:01	9° Υ 19'16	22 00 23	evening max el	8462 Feb 10 17:37		23°19'57
asc. node	8461 Mar 10 02:52	9° Υ 17'03		retrograde	8462 Feb 21 05:59	23°) 42'38	23 1937
evening set	8461 Mar 13 23:36	7° Υ 29'03		asc. node	8462 Feb 24 23:58	23° X 42'36 22° X 33'32	
inferior conj	8461 Mar 19 07:17	1° Υ 09'18	2°36'48	evening set	8462 Feb 26 06:13	21° H 37'38	
minimum elong	8461 Mar 19 05:05	1° Υ 16'58	2°36'16	min. Earth dist.	8462 Mar 03 04:04	15° H 51'58	0.68376 AU
min. Earth dist.	8461 Mar 19 07:19	1° Υ 09'09	0.68405 AU	inferior conj	8462 Mar 03 15:55	15° X 11'12	2°01'50
iiiii. Eartii tiist.	8461 Mar 20 03:15	1 1 09 09 30°R ∺	0.06403 AU		8462 Mar 03 13:43	15° X 1112	2°01'12
		24° ₩ 58'08		minimum elong	8462 Mar 08 21:11	9° X 05'21	2 01 12
morning rise	8461 Mar 24 10:24			morning rise		7° \ 23'08	
direct	8461 Mar 29 07:07	22°\(\frac{1}{23}\)32	22027102	direct	8462 Mar 13 04:02		21002150
morning max el	8461 Apr 07 21:56	28° ∺ 33′02	22°26'03	morning max el	8462 Mar 21 14:10	12°) 13'47	21°02'58
	8461 Apr 09 07:19	0° Υ		desc. node	8462 Mar 31 15:30	24°) (33′29	
desc. node	8461 Apr 13 18:33	5° Y 13′26			8462 Apr 04 12:26	0°Υ	
	8461 May 01 08:59	0° 8		morning set	8462 Apr 21 03:46	25° Y ′02'20	
morning set	8461 May 11 14:29	16° 8 05'59			8462 Apr 24 07:10	0° 8	
max. Earth dist.	8461 May 16 14:34	24° 8 24'34	1.40684 AU	max. Earth dist.	8462 Apr 28 18:12	7° 8 10'59	1.42729 AU
	8461 May 19 20:52	Π °0			0460.15	1001 10	2004:5-
	046134 04 00 0	70 T 50	104220	superior conj	8462 May 05 20:53	19° 8 01'39	
superior conj	8461 May 24 09:34	7° Ⅱ 59'54		minimum elong	8462 May 06 01:33	19° 8 21'28	2~04'19
minimum elong	8461 May 24 15:26	8° Ⅱ 26'13	1°42'42		8462 May 12 04:48	0° П	
evening rise	8461 Jun 03 13:51	26° Ⅱ 49'55		evening rise	8462 May 17 12:31	9° ∏ 28'52	
	8461 Jun 05 06:23	0°€		asc. node	8462 May 23 22:52	20° ∏ 53′00	
asc. node	8461 Jun 06 01:48	1° © 30'38			8462 May 29 15:06	0∘ ©	
evening max el	8461 Jun 19 15:37	22° © 33'40	18°20'42	evening max el	8462 Jun 03 03:02	5° © 32'13	18°05'55
retrograde	8461 Jun 27 00:19	26°515'02		retrograde	8462 Jun 09 18:43	8° © 56'20	
evening set	8461 Jun 29 06:07	25° © 55'21		evening set	8462 Jun 12 08:01	8° 5 26'18	

inforior coni	8462 Jun 19 00:04	3° © 28'50	2010102	retrograde	9462 May 24 01:40	22° ∏ 11'49	
inferior conj					8463 May 24 01:40	22 H1149 21°H29'13	
minimum elong	8462 Jun 19 03:06	3°921'33	2°17'02	evening set	8463 May 26 22:21		2050156
min. Earth dist.	8462 Jun 22 05:02	0°\$25'12	0.60854 AU	inferior conj	8463 Jun 02 01:03	16° Ⅱ 13'09	2°58'56
	8462 Jun 22 16:13	30°RⅡ		minimum elong	8463 Jun 02 03:19	16° Ⅱ 06'59	2°58'22
morning rise	8462 Jun 25 19:39	27° Ⅲ 32'37		min. Earth dist.	8463 Jun 04 18:15	13° Ⅱ 16'45	0.63041 AU
desc. node	8462 Jun 27 15:01	26° Ⅲ 30'48		morning rise	8463 Jun 08 06:44	10° ∏ 02'48	
direct	8462 Jul 02 10:24	25° Ⅱ 21'39		desc. node	8463 Jun 14 12:03	7° Ⅱ 29'35	
	8462 Jul 13 00:29	0		direct	8463 Jun 15 01:04	7° Ⅱ 28'39	
morning max el	8462 Jul 16 17:27	3° © 20'24	27°52'14	morning max el	8463 Jun 29 00:58	15° Ⅱ 31'49	27°49'52
	8462 Aug 05 08:54	$0^{\circ}\Omega$			8463 Jul 10 20:48	0	
morning set	8462 Aug 18 12:47	24° Ω 37'42			8463 Jul 29 00:50	0 \circ Ω	
asc. node	8462 Aug 19 22:18	27° Ω 32'35		morning set	8463 Aug 02 10:38	8° Ω 36′29	
	8462 Aug 21 02:07	0° m		asc. node	8463 Aug 06 19:17	17° Ω 37'00	
max. Earth dist.	8462 Aug 24 11:44	7° m 22'05	1.31799 AU	max. Earth dist.	8463 Aug 07 15:56	19° Ω 26'43	1.32429 AU
superior conj	8462 Aug 25 19:50	10° Mp 18'36	0°56'54	superior conj	8463 Aug 10 03:56	24° Ω 49'34	0°33'34
minimum elong	8462 Aug 25 17:42	10° Mp 06'52	0°56'27	minimum elong	8463 Aug 10 02:26	24° Ω 41'25	0°33'09
evening rise	8462 Sep 01 14:01	25° Mp 07′44			8463 Aug 12 12:56	0° ™	
	8462 Sep 03 21:22	0∘ ত		evening rise	8463 Aug 17 01:40	9° ™ 49'28	
	8462 Sep 21 09:35	0°M₊			8463 Aug 27 09:04	0∘ ⊽	
desc. node	8462 Sep 23 13:52	2°M44'14		evening max el	8463 Sep 09 17:20	18° ≏ 07'23	23°36'53
evening max el	8462 Sep 28 05:39	7° ™ 46'05	25°12'45	desc. node	8463 Sep 10 10:58	18° ≏ 48'59	
retrograde	8462 Oct 12 02:58	14°M46'40		retrograde	8463 Sep 23 07:06	24° ≙ 54'43	
evening set	8462 Oct 17 21:46	13°M30'18		evening set	8463 Sep 27 16:15	24° ₽ 12'47	
min. Earth dist.	8462 Oct 22 17:22	10°M49'55	0.57351 AU	min. Earth dist.	8463 Oct 04 03:27	21° ≏ 08'22	0.55730 AU
inferior conj	8462 Oct 25 15:13	8°M52'43	-5°21'54	inferior conj	8463 Oct 06 03:24	19° ≙ 56'55	-5°34'41
minimum elong	8462 Oct 25 20:06	8°M44'30	5°21'13	minimum elong	8463 Oct 06 01:39	19° ≏ 59'32	5°34'34
morning rise	8462 Nov 02 20:45	4° ™ 40'35		morning rise	8463 Oct 14 13:09	16° ≙ 02'56	
direct	8462 Nov 05 07:00	4° ™ 23'17		direct	8463 Oct 17 09:28	15° ≏ 42'52	
morning max el	8462 Nov 14 07:13	8° M 41'17	19°04'56	morning max el	8463 Oct 27 21:13	20° ≏ 38'31	20°13'34
asc. node	8462 Nov 15 21:56	10°M21'42		asc. node	8463 Nov 02 18:56	27° ≏ 40'27	
	8462 Nov 28 04:25	0° ⊼ ¹			8463 Nov 04 08:25	0°M	
morning set	8462 Dec 01 00:35	5° х 33′48		morning set	8463 Nov 15 06:20	20° ™ 11'22	
				J	8463 Nov 20 00:52	0° ∡ ″	
superior conj	8462 Dec 09 07:36	21° ₹ 53'09	1°17'11				
minimum elong	8462 Dec 09 10:44	22° ₹ 08'12	1°17'01	superior conj	8463 Nov 22 21:18	5° ∡ ¹48'05	1°32'31
	8462 Dec 13 14:53	0°₹		minimum elong	8463 Nov 22 23:23	5° ∡ ¹58'35	1°32'32
max. Earth dist.	8462 Dec 16 03:17	4° ප 34'58	1.38757 AU	max. Earth dist.	8463 Nov 28 09:48	16° ∡ ³38'12	1.36650 AU
evening rise	8462 Dec 19 22:37	11° ප 17'03		evening rise	8463 Dec 02 05:33	23° ∡ ¹45'23	
desc. node	8462 Dec 20 12:47	12° る 17'59			8463 Dec 05 17:43	0°ප	
	8462 Dec 31 10:59	0° ≈		desc. node	8463 Dec 07 09:50	2° る 52'52	
	8463 Jan 23 01:14	0° ∀			8463 Dec 25 03:30	0° ≈	
evening max el	8463 Jan 24 07:02	1° ¥ 15'37	24°39'02	evening max el	8464 Jan 06 20:13	15° ≈ 03'33	25°50'35
retrograde	8463 Feb 04 21:13	8°) (01'49		retrograde	8464 Jan 19 07:44	22° ≈ 11'21	
evening set	8463 Feb 10 09:52	5°) 43′36		evening set	8464 Jan 25 08:56	19° ≈ 42'35	
asc. node	8463 Feb 11 21:04	4°) 19′23		min. Earth dist.		1, 1011200	
min. Earth dist.					8464 Ian 29 15:59	15°≈≈05'47	0.67137 AU
mm. Earth dist.	8463 Feb 14 23:43	0°\ 32'15	0.67947 AU		8464 Jan 29 15:59 8464 Jan 29 18:08	15°≈05'47 14°≈59'05	0.67137 AU
	8463 Feb 14 23:43 8463 Feb 15 09:26		0.67947 AU	asc. node	8464 Jan 29 18:08	14° ≈ 59'05	
inferior coni	8463 Feb 15 09:26	30°R≈		asc. node inferior conj	8464 Jan 29 18:08 8464 Jan 31 02:41	14°≈59'05 13°≈16'28	0°26'54
inferior conj	8463 Feb 15 09:26 8463 Feb 15 23:00	30°R≈ 29°≈14'44	1°18'24	asc. node inferior conj minimum elong	8464 Jan 29 18:08 8464 Jan 31 02:41 8464 Jan 31 02:00	14°≈59'05 13°≈16'28 13°≈18'38	
minimum elong	8463 Feb 15 09:26 8463 Feb 15 23:00 8463 Feb 15 21:18	30°R≈ 29°≈14'44 29°≈20'25		asc. node inferior conj minimum elong morning rise	8464 Jan 29 18:08 8464 Jan 31 02:41 8464 Jan 31 02:00 8464 Feb 05 19:35	14°≈59'05 13°≈16'28 13°≈18'38 7°≈25'56	0°26'54
minimum elong morning rise	8463 Feb 15 09:26 8463 Feb 15 23:00 8463 Feb 15 21:18 8463 Feb 21 08:55	30°R≈ 29°≈14'44 29°≈20'25 23°≈15'35	1°18'24	asc. node inferior conj minimum elong morning rise direct	8464 Jan 29 18:08 8464 Jan 31 02:41 8464 Jan 31 02:00 8464 Feb 05 19:35 8464 Feb 09 01:55	14°≈59'05 13°≈16'28 13°≈18'38 7°≈25'56 6°≈24'54	0°26'54 0°26'45
minimum elong morning rise direct	8463 Feb 15 09:26 8463 Feb 15 23:00 8463 Feb 15 21:18 8463 Feb 21 08:55 8463 Feb 25 02:48	30°R≈ 29°≈14'44 29°≈20'25 23°≈15'35 21°≈55'11	1°18'24 1°17'52	asc. node inferior conj minimum elong morning rise	8464 Jan 29 18:08 8464 Jan 31 02:41 8464 Jan 31 02:00 8464 Feb 05 19:35 8464 Feb 09 01:55 8464 Feb 15 21:22	14°≈59'05 13°≈16'28 13°≈18'38 7°≈25'56 6°≈24'54 10°≈08'22	0°26'54
minimum elong morning rise	8463 Feb 15 09:26 8463 Feb 15 23:00 8463 Feb 15 21:18 8463 Feb 21 08:55 8463 Feb 25 02:48 8463 Mar 04 13:56	30°R≈ 29°≈14'44 29°≈20'25 23°≈15'35 21°≈55'11 26°≈06'13	1°18'24	asc. node inferior conj minimum elong morning rise direct morning max el	8464 Jan 29 18:08 8464 Jan 31 02:41 8464 Jan 31 02:00 8464 Feb 05 19:35 8464 Feb 09 01:55 8464 Feb 15 21:22 8464 Mar 01 10:35	14°≈59'05 13°≈16'28 13°≈18'38 7°≈25'56 6°≈24'54 10°≈08'22 0° ★	0°26'54 0°26'45
minimum elong morning rise direct morning max el	8463 Feb 15 09:26 8463 Feb 15 23:00 8463 Feb 15 21:18 8463 Feb 21 08:55 8463 Feb 25 02:48 8463 Mar 04 13:56 8463 Mar 08 01:58	30°R≈ 29°≈14'44 29°≈20'25 23°≈15'35 21°≈55'11 26°≈06'13 0°⊁	1°18'24 1°17'52 19°51'48	asc. node inferior conj minimum elong morning rise direct morning max el desc. node	8464 Jan 29 18:08 8464 Jan 31 02:41 8464 Jan 31 02:00 8464 Feb 05 19:35 8464 Feb 09 01:55 8464 Feb 15 21:22 8464 Mar 01 10:35 8464 Mar 04 09:23	14°≈59'05 13°≈16'28 13°≈18'38 7°≈25'56 6°≈24'54 10°≈08'22 0° ₩ 4° ₩32'53	0°26'54 0°26'45
minimum elong morning rise direct morning max el greatest brilliancy	8463 Feb 15 09:26 8463 Feb 15 23:00 8463 Feb 15 21:18 8463 Feb 21 08:55 8463 Feb 25 02:48 8463 Mar 04 13:56 8463 Mar 08 01:58 8463 Mar 17 15:24	30°R≈ 29°≈14'44 29°≈20'25 23°≈15'35 21°≈55'11 26°≈06'13 0°¥ 13°¥05'20	1°18'24 1°17'52	asc. node inferior conj minimum elong morning rise direct morning max el	8464 Jan 29 18:08 8464 Jan 31 02:41 8464 Jan 31 02:00 8464 Feb 05 19:35 8464 Feb 09 01:55 8464 Feb 15 21:22 8464 Mar 01 10:35 8464 Mar 04 09:23 8464 Mar 09 07:51	14°≈59'05 13°≈16'28 13°≈18'38 7°≈25'56 6°≈24'54 10°≈08'22 0° ★ 4° ★32'53 12° ★13'01	0°26'54 0°26'45
minimum elong morning rise direct morning max el	8463 Feb 15 09:26 8463 Feb 15 23:00 8463 Feb 15 21:18 8463 Feb 21 08:55 8463 Feb 25 02:48 8463 Mar 04 13:56 8463 Mar 08 01:58 8463 Mar 17 15:24 8463 Mar 18 12:26	30°R≈ 29°≈14'44 29°≈20'25 23°≈15'35 21°≈55'11 26°≈06'13 0° ₩ 13° ₩05'20 14° ₩22'32	1°18'24 1°17'52 19°51'48	asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set	8464 Jan 29 18:08 8464 Jan 31 02:41 8464 Jan 31 02:00 8464 Feb 05 19:35 8464 Feb 09 01:55 8464 Feb 15 21:22 8464 Mar 01 10:35 8464 Mar 04 09:23 8464 Mar 09 07:51 8464 Mar 20 17:27	14°≈59'05 13°≈16'28 13°≈18'38 7°≈25'56 6°≈24'54 10°≈08'22 0° ★ 4° ₭32'53 12° ₭13'01 0° ♥	0°26'54 0°26'45 18°55'41
minimum elong morning rise direct morning max el greatest brilliancy desc. node	8463 Feb 15 09:26 8463 Feb 15 23:00 8463 Feb 15 21:18 8463 Feb 21 08:55 8463 Feb 25 02:48 8463 Mar 04 13:56 8463 Mar 08 01:58 8463 Mar 17 15:24 8463 Mar 18 12:26 8463 Mar 28 21:10	30°R≈ 29°≈14'44 29°≈20'25 23°≈15'35 21°≈55'11 26°≈06'13 0° ₩ 13° ₩05'20 14° ₩22'32 0° ♥	1°18'24 1°17'52 19°51'48	asc. node inferior conj minimum elong morning rise direct morning max el desc. node	8464 Jan 29 18:08 8464 Jan 31 02:41 8464 Jan 31 02:00 8464 Feb 05 19:35 8464 Feb 09 01:55 8464 Feb 15 21:22 8464 Mar 01 10:35 8464 Mar 04 09:23 8464 Mar 09 07:51	14°≈59'05 13°≈16'28 13°≈18'38 7°≈25'56 6°≈24'54 10°≈08'22 0° ★ 4° ★32'53 12° ★13'01	0°26'54 0°26'45
minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set	8463 Feb 15 09:26 8463 Feb 15 23:00 8463 Feb 15 21:18 8463 Feb 21 08:55 8463 Feb 25 02:48 8463 Mar 04 13:56 8463 Mar 08 01:58 8463 Mar 17 15:24 8463 Mar 18 12:26 8463 Mar 28 21:10 8463 Mar 31 01:33	30°R≈ 29°≈14'44 29°≈20'25 23°≈15'35 21°≈55'11 26°≈06'13 0°H 13°H05'20 14°H22'32 0°Y 3°Y21'14	1°18'24 1°17'52 19°51'48 -0.6m	asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	8464 Jan 29 18:08 8464 Jan 31 02:41 8464 Jan 31 02:00 8464 Feb 05 19:35 8464 Feb 09 01:55 8464 Feb 15 21:22 8464 Mar 01 10:35 8464 Mar 04 09:23 8464 Mar 09 07:51 8464 Mar 20 17:27 8464 Mar 23 20:48	14°≈59'05 13°≈16'28 13°≈18'38 7°≈25'56 6°≈24'54 10°≈08'22 0° ★ 4° ★32'53 12° ★13'01 0° ♀ 4° ♀55'09	0°26'54 0°26'45 18°55'41
minimum elong morning rise direct morning max el greatest brilliancy desc. node	8463 Feb 15 09:26 8463 Feb 15 23:00 8463 Feb 15 21:18 8463 Feb 21 08:55 8463 Feb 25 02:48 8463 Mar 04 13:56 8463 Mar 08 01:58 8463 Mar 17 15:24 8463 Mar 18 12:26 8463 Mar 28 21:10	30°R≈ 29°≈14'44 29°≈20'25 23°≈15'35 21°≈55'11 26°≈06'13 0° ₩ 13° ₩05'20 14° ₩22'32 0° ♥	1°18'24 1°17'52 19°51'48	asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	8464 Jan 29 18:08 8464 Jan 31 02:41 8464 Jan 31 02:00 8464 Feb 05 19:35 8464 Feb 09 01:55 8464 Feb 15 21:22 8464 Mar 01 10:35 8464 Mar 04 09:23 8464 Mar 09 07:51 8464 Mar 20 17:27 8464 Mar 23 20:48	14°≈59'05 13°≈16'28 13°≈18'38 7°≈25'56 6°≈24'54 10°≈08'22 0° ★ 4° ★32'53 12° ★13'01 0° ♀ 4° ♀55'09	0°26'54 0°26'45 18°55'41 1.45291 AU -2°00'17
minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist.	8463 Feb 15 09:26 8463 Feb 15 23:00 8463 Feb 15 21:18 8463 Feb 21 08:55 8463 Feb 25 02:48 8463 Mar 04 13:56 8463 Mar 08 01:58 8463 Mar 17 15:24 8463 Mar 18 12:26 8463 Mar 28 21:10 8463 Mar 31 01:33 8463 Apr 11 04:32	30°R≈ 29°≈14'44 29°≈20'25 23°≈15'35 21°≈55'11 26°≈06'13 0°¥ 13°¥05'20 14°¥22'32 0°Y 3°Y21'14 20°Y44'54	1°18'24 1°17'52 19°51'48 -0.6m	asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	8464 Jan 29 18:08 8464 Jan 31 02:41 8464 Jan 31 02:00 8464 Feb 05 19:35 8464 Feb 09 01:55 8464 Feb 15 21:22 8464 Mar 01 10:35 8464 Mar 04 09:23 8464 Mar 09 07:51 8464 Mar 20 17:27 8464 Mar 23 20:48 8464 Mar 25 20:30 8464 Mar 25 13:04	14°≈59'05 13°≈16'28 13°≈18'38 7°≈25'56 6°≈24'54 10°≈08'22 0° ¥ 4° ¥ 32'53 12° ¥ 13'01 0° ¥ 4° ¥ 55'09 8° ¥ 02'37 7° ¥ 33'23	0°26'54 0°26'45 18°55'41
minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj	8463 Feb 15 09:26 8463 Feb 15 23:00 8463 Feb 15 21:18 8463 Feb 21 08:55 8463 Feb 25 02:48 8463 Mar 04 13:56 8463 Mar 08 01:58 8463 Mar 17 15:24 8463 Mar 18 12:26 8463 Mar 28 21:10 8463 Mar 31 01:33 8463 Apr 11 04:32	30°R≈ 29°≈14'44 29°≈20'25 23°≈15'35 21°≈55'11 26°≈06'13 0°¥ 13°¥05'20 14°¥22'32 0°Y 3°Y21'14 20°Y44'54	1°18'24 1°17'52 19°51'48 -0.6m 1.44324 AU -2°11'58	asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	8464 Jan 29 18:08 8464 Jan 31 02:41 8464 Jan 31 02:00 8464 Feb 05 19:35 8464 Feb 09 01:55 8464 Feb 15 21:22 8464 Mar 01 10:35 8464 Mar 04 09:23 8464 Mar 09 07:51 8464 Mar 20 17:27 8464 Mar 23 20:48 8464 Mar 25 13:04 8464 Mar 25 13:04 8464 Apr 08 14:36	14°≈59'05 13°≈16'28 13°≈18'38 7°≈25'56 6°≈24'54 10°≈08'22 0° ★ 4° ★32'53 12° ★13'01 0° ↑ 4° ↑55'09 8° ↑02'37 7° ↑33'23 0° ★	0°26'54 0°26'45 18°55'41 1.45291 AU -2°00'17
minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist.	8463 Feb 15 09:26 8463 Feb 15 23:00 8463 Feb 15 21:18 8463 Feb 21 08:55 8463 Feb 25 02:48 8463 Mar 04 13:56 8463 Mar 08 01:58 8463 Mar 17 15:24 8463 Mar 18 12:26 8463 Mar 28 21:10 8463 Mar 31 01:33 8463 Apr 11 04:32	30°R≈ 29°≈14'44 29°≈20'25 23°≈15'35 21°≈55'11 26°≈06'13 0°H 13°H05'20 14°H22'32 0°Y 3°Y21'14 20°Y44'54 28°Y58'29 28°Y56'24	1°18'24 1°17'52 19°51'48 -0.6m 1.44324 AU -2°11'58	asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	8464 Jan 29 18:08 8464 Jan 31 02:41 8464 Jan 31 02:00 8464 Feb 05 19:35 8464 Feb 09 01:55 8464 Feb 15 21:22 8464 Mar 01 10:35 8464 Mar 04 09:23 8464 Mar 09 07:51 8464 Mar 20 17:27 8464 Mar 23 20:48 8464 Mar 25 20:30 8464 Mar 25 13:04 8464 Apr 08 14:36 8464 Apr 09 21:02	14°≈59'05 13°≈16'28 13°≈18'38 7°≈25'56 6°≈24'54 10°≈08'22 0° ★ 4° ₩32'53 12° ₩13'01 0° Ψ 4° Ψ55'09 8° Ψ02'37 7° Ψ33'23 0° ₩ 2° ₩03'24	0°26'54 0°26'45 18°55'41 1.45291 AU -2°00'17
minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj minimum elong	8463 Feb 15 09:26 8463 Feb 15 23:00 8463 Feb 15 21:18 8463 Feb 21 08:55 8463 Feb 25 02:48 8463 Mar 04 13:56 8463 Mar 08 01:58 8463 Mar 17 15:24 8463 Mar 18 12:26 8463 Mar 28 21:10 8463 Mar 31 01:33 8463 Apr 11 04:32 8463 Apr 16 07:29 8463 Apr 16 06:58 8463 Apr 16 06:58	30°R≈ 29°≈14'44 29°≈20'25 23°≈15'35 21°≈55'11 26°≈06'13 0° ₩ 13° ₩05'20 14° ₩22'32 0° Ψ 3° Ψ21'14 20° Ψ44'54 28° Ψ58'29 28° Ψ56'24 0° ℧	1°18'24 1°17'52 19°51'48 -0.6m 1.44324 AU -2°11'58	asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	8464 Jan 29 18:08 8464 Jan 31 02:41 8464 Jan 31 02:00 8464 Feb 05 19:35 8464 Feb 09 01:55 8464 Feb 15 21:22 8464 Mar 01 10:35 8464 Mar 09 07:51 8464 Mar 20 17:27 8464 Mar 23 20:48 8464 Mar 25 20:30 8464 Mar 25 13:04 8464 Apr 08 14:36 8464 Apr 09 21:02 8464 Apr 26 16:58	14°≈59'05 13°≈16'28 13°≈16'28 13°≈18'38 7°≈25'56 6°≈24'54 10°≈08'22 0° ★ 4° ₩32'53 12° ₩13'01 0° Ψ 4° Ψ55'09 8° Ψ02'37 7° Ψ33'23 0° ₩ 2° ₩03'24 28° ₩15'18	0°26'54 0°26'45 18°55'41 1.45291 AU -2°00'17
minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj	8463 Feb 15 09:26 8463 Feb 15 23:00 8463 Feb 15 21:18 8463 Feb 21 08:55 8463 Feb 25 02:48 8463 Mar 04 13:56 8463 Mar 08 01:58 8463 Mar 17 15:24 8463 Mar 18 12:26 8463 Mar 28 21:10 8463 Mar 31 01:33 8463 Apr 11 04:32 8463 Apr 16 07:29 8463 Apr 16 06:58 8463 Apr 16 22:38 8463 Apr 29 16:12	30°R≈ 29°≈14'44 29°≈20'25 23°≈15'35 21°≈55'11 26°≈06'13 0° ₩ 13° ₩05'20 14° ₩22'32 0° Ψ 3° Ψ21'14 20° Ψ44'54 28° Ψ58'29 28° Ψ56'24 0° ₩ 21° ₩15'20	1°18'24 1°17'52 19°51'48 -0.6m 1.44324 AU -2°11'58	asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	8464 Jan 29 18:08 8464 Jan 31 02:41 8464 Jan 31 02:00 8464 Feb 05 19:35 8464 Feb 09 01:55 8464 Feb 15 21:22 8464 Mar 01 10:35 8464 Mar 09 07:51 8464 Mar 20 17:27 8464 Mar 23 20:48 8464 Mar 25 13:04 8464 Mar 25 13:04 8464 Apr 08 14:36 8464 Apr 09 21:02 8464 Apr 26 16:58 8464 Apr 28 02:13	14°≈59'05 13°≈16'28 13°≈16'28 13°≈18'38 7°≈25'56 6°≈24'54 10°≈08'22 0° ★ 4° ₩32'53 12° ₩13'01 0° Ψ 4° Ψ55'09 8° Ψ02'37 7° Ψ33'23 0° ₩ 2° ₩03'24 28° ₩15'18 0° Щ	0°26'54 0°26'45 18°55'41 1.45291 AU -2°00'17 1°59'52
minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj minimum elong evening rise	8463 Feb 15 09:26 8463 Feb 15 23:00 8463 Feb 15 21:18 8463 Feb 21 08:55 8463 Feb 25 02:48 8463 Mar 04 13:56 8463 Mar 08 01:58 8463 Mar 17 15:24 8463 Mar 18 12:26 8463 Mar 28 21:10 8463 Mar 31 01:33 8463 Apr 11 04:32 8463 Apr 16 07:29 8463 Apr 16 06:58 8463 Apr 16 22:38 8463 Apr 29 16:12 8463 May 04 19:26	30°R≈ 29°≈14'44 29°≈20'25 23°≈15'35 21°≈55'11 26°≈06'13 0°Ж 13°Ж05'20 14°Ж22'32 0°Υ 3°Υ21'14 20°Υ44'54 28°Υ58'29 28°Υ56'24 0°႘ 21°႘15'20 0°Ⅱ	1°18'24 1°17'52 19°51'48 -0.6m 1.44324 AU -2°11'58	asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el	8464 Jan 29 18:08 8464 Jan 31 02:41 8464 Jan 31 02:00 8464 Feb 05 19:35 8464 Feb 09 01:55 8464 Feb 15 21:22 8464 Mar 01 10:35 8464 Mar 09 07:51 8464 Mar 20 17:27 8464 Mar 23 20:48 8464 Mar 25 13:04 8464 Apr 08 14:36 8464 Apr 09 21:02 8464 Apr 26 16:58 8464 Apr 28 02:13 8464 Apr 30 04:48	14°≈59'05 13°≈16'28 13°≈16'28 13°≈18'38 7°≈25'56 6°≈24'54 10°≈08'22 0° ★ 4° ★32'53 12° ★13'01 0° ♀ 4° ♀55'09 8° ♀02'37 7° ♀33'23 0° ௧ 2° ௧03'24 28° ௧15'18 0° Ⅲ 2° Ⅲ20'16	0°26'54 0°26'45 18°55'41 1.45291 AU -2°00'17 1°59'52
minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	8463 Feb 15 09:26 8463 Feb 15 23:00 8463 Feb 15 21:18 8463 Feb 21 08:55 8463 Feb 25 02:48 8463 Mar 04 13:56 8463 Mar 08 01:58 8463 Mar 17 15:24 8463 Mar 18 12:26 8463 Mar 28 21:10 8463 Mar 31 01:33 8463 Apr 11 04:32 8463 Apr 16 06:58 8463 Apr 16 06:58 8463 Apr 29 16:12 8463 May 04 19:26 8463 May 10 19:55	30°R≈ 29°≈14'44 29°≈20'25 23°≈15'35 21°≈55'11 26°≈06'13 0°ℋ 13°ℋ05'20 14°ℋ22'32 0°Ψ 3°Ψ21'14 20°Ψ44'54 28°Ψ56'24 0°℧ 21°℧15'20 0°Ⅱ 9°Ⅱ50'34	1°18'24 1°17'52 19°51'48 -0.6m 1.44324 AU -2°11'58 2°12'03	asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde	8464 Jan 29 18:08 8464 Jan 31 02:41 8464 Jan 31 02:00 8464 Feb 05 19:35 8464 Feb 09 01:55 8464 Feb 15 21:22 8464 Mar 01 10:35 8464 Mar 09 07:51 8464 Mar 20 17:27 8464 Mar 23 20:48 8464 Mar 25 13:04 8464 Apr 08 14:36 8464 Apr 09 21:02 8464 Apr 26 16:58 8464 Apr 28 02:13 8464 Apr 30 04:48 8464 May 06 16:56	14°≈59'05 13°≈16'28 13°≈16'28 13°≈16'28 7°≈25'56 6°≈24'54 10°≈08'22 0° ★ 4° ★32'53 12° ★13'01 0° ♀ 4° ♀55'09 8° ♀02'37 7° ♀33'23 0° ௧ 2° ௧03'24 28° ௧15'18 0° Ⅱ 2° Ⅱ20'16 5° Ⅱ52'46	0°26'54 0°26'45 18°55'41 1.45291 AU -2°00'17 1°59'52
minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj minimum elong evening rise	8463 Feb 15 09:26 8463 Feb 15 23:00 8463 Feb 15 21:18 8463 Feb 21 08:55 8463 Feb 25 02:48 8463 Mar 04 13:56 8463 Mar 08 01:58 8463 Mar 17 15:24 8463 Mar 18 12:26 8463 Mar 28 21:10 8463 Mar 31 01:33 8463 Apr 11 04:32 8463 Apr 16 07:29 8463 Apr 16 06:58 8463 Apr 16 22:38 8463 Apr 29 16:12 8463 May 04 19:26	30°R≈ 29°≈14'44 29°≈20'25 23°≈15'35 21°≈55'11 26°≈06'13 0°Ж 13°Ж05'20 14°Ж22'32 0°Υ 3°Υ21'14 20°Υ44'54 28°Υ58'29 28°Υ56'24 0°႘ 21°႘15'20 0°Ⅱ	1°18'24 1°17'52 19°51'48 -0.6m 1.44324 AU -2°11'58 2°12'03	asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el	8464 Jan 29 18:08 8464 Jan 31 02:41 8464 Jan 31 02:00 8464 Feb 05 19:35 8464 Feb 09 01:55 8464 Feb 15 21:22 8464 Mar 01 10:35 8464 Mar 09 07:51 8464 Mar 20 17:27 8464 Mar 23 20:48 8464 Mar 25 13:04 8464 Apr 08 14:36 8464 Apr 09 21:02 8464 Apr 26 16:58 8464 Apr 28 02:13 8464 Apr 30 04:48	14°≈59'05 13°≈16'28 13°≈16'28 13°≈18'38 7°≈25'56 6°≈24'54 10°≈08'22 0° ★ 4° ★32'53 12° ★13'01 0° ♀ 4° ♀55'09 8° ♀02'37 7° ♀33'23 0° ௧ 2° ௧03'24 28° ௧15'18 0° Ⅲ 2° Ⅲ20'16	0°26'54 0°26'45 18°55'41 1.45291 AU -2°00'17 1°59'52

•	•		· ·	**		, 1	
	8464 May 15 01:52	30° ₹ 8		greatest brilliancy	8465 Apr 01 08:39	29° Y °25'44	-0.8m
inferior conj	8464 May 15 14:18	29° 8 22'51	3°18'58	8	8465 Apr 01 17:39	0°8	******
minimum elong	8464 May 15 15:16	29° 8 19'57		evening max el	8465 Apr 13 13:49	15° 8 56'50	19°12'43
min. Earth dist.	8464 May 17 16:31	26° 8 52'33	0.64966 AU	asc. node	8465 Apr 13 14:03	15° 8 57'25	
morning rise	8464 May 21 08:41	23° 8 06'11		retrograde	8465 Apr 20 13:11	19° 8 52'38	
direct	8464 May 27 23:39	20° 8 20'37		evening set	8465 Apr 24 01:05	18° 8 41'22	
desc. node	8464 May 31 09:04	20° 8 58'06		inferior conj	8465 Apr 29 12:19	12° 8 52'14	3°22'37
morning max el	8464 Jun 10 10:56	28° 8 16'06	27°12'46	minimum elong	8465 Apr 29 12:01	12° 8 53'14	3°22'29
5 5	8464 Jun 12 02:39	0°II		min. Earth dist.	8465 Apr 30 23:11	10° 8 59'45	0.66499 AU
	8464 Jul 03 15:37	0∘ ௐ		morning rise	8465 May 04 22:33	6° 8 33'59	
morning set	8464 Jul 15 23:12	22° © 05'12		direct	8465 May 11 04:48	3° 8 49'09	
5 - 5	8464 Jul 19 22:45	$0^{\circ}\Omega$		desc. node	8465 May 18 06:03	6° 8 30'11	
max. Earth dist.	8464 Jul 20 11:30		1.33553 AU	morning max el	8465 May 23 21:12	11° 8 23'05	26°08'30
asc. node	8464 Jul 23 16:13	7° Ω 43'04		C	8465 Jun 07 17:17	0°II	
					8465 Jun 26 06:29	0ಂತಾ	
superior conj	8464 Jul 24 07:06	9° Ω 01'28	0°06'16	morning set	8465 Jun 28 23:00	4° 9 54'56	
minimum elong	8464 Jul 24 06:47	8° Ω 59'47	0°06'03	max. Earth dist.	8465 Jul 02 20:31	12° © 18'47	1.35160 AU
behind sun begin	8464 Jul 24 01:35	8° Ω 32'24					
behind sun end	8464 Jul 24 11:58	9° Ω 27'14		superior conj	8465 Jul 08 02:56	22°5548'08	-0°24'07
evening rise	8464 Jul 31 12:33	24° Ω 25'07		minimum elong	8465 Jul 08 04:20	22°955'16	0°24'01
<i>8</i>	8464 Aug 03 04:58	0° m)		asc. node	8465 Jul 10 13:12	27°9647'25	
evening max el	8464 Aug 21 07:16	28° m) 22'10	21°58'33		8465 Jul 11 14:47	0°N	
* · · · · · · · · · · · · · · · · · · ·	8464 Aug 23 02:00	0∘ ರ		evening rise	8465 Jul 15 20:44	8° Ω 49'22	
desc. node	8464 Aug 27 08:04	2° Ω 55'45			8465 Jul 27 05:24	0° m)	
retrograde	8464 Sep 02 23:09	4° Ω 39'39		evening max el	8465 Aug 03 07:29	9° m 03'42	20°31'58
evening set	8464 Sep 05 21:25	4° £ 20'32		retrograde	8465 Aug 14 11:13	14° m) 34'56	
inferior conj	8464 Sep 14 23:57	0° £ 20'09	-4°54'49	desc. node	8465 Aug 14 05:08	14° m) 34'47	
minimum elong	8464 Sep 14 15:30	0° ₽ 32'00	4°53'07	evening set	8465 Aug 16 12:16	14° Mp 24'36	
min. Earth dist.	8464 Sep 14 11:42	0° ₽ 37'19	0.54806 AU	inferior conj	8465 Aug 25 16:46	10° m) 27'29	-3°23'27
min. Burm dige.	8464 Sep 15 14:22	30°R.M)	0.0 1000 110	minimum elong	8465 Aug 25 07:56	10° m) 40'13	3°20'37
morning rise	8464 Sep 23 10:58	26° mp 31'48		min. Earth dist.	8465 Aug 26 20:59	9° m) 46'44	0.54794 AU
direct	8464 Sep 26 21:23	26° m 05'46		morning rise	8465 Sep 03 03:11	6° m/24'34	0.5 175 1710
4.1.000	8464 Oct 06 20:40	0° ⊽		direct	8465 Sep 07 06:04	5° m) 48'11	
morning max el	8464 Oct 08 22:04	1° Ω 45'47	21°43'19	morning max el	8465 Sep 20 13:11	12° m) 13'27	23°27'19
asc. node	8464 Oct 19 15:55	15° Ω 49'51	21 (31)	morning max or	8465 Oct 03 22:05	0∘ ত	23 27 19
use. Houe	8464 Oct 27 06:11	0°M		asc. node	8465 Oct 06 12:53	4° ユ 37'43	
morning set	8464 Oct 29 15:55	4°M57'51		morning set	8465 Oct 14 03:23	19° ≙ 47'40	
3				. 8	8465 Oct 18 21:02	0°M	
superior conj	8464 Nov 05 20:29	20°M09'05	1°40'05				
minimum elong	8464 Nov 05 21:16	20°M13'07		superior conj	8465 Oct 21 02:08	4° M .47'19	1°40'47
max. Earth dist.	8464 Nov 09 22:11	28°M31'43	1.34802 AU	minimum elong	8465 Oct 21 01:39	4° M 44'46	1°40'53
	8464 Nov 10 15:46	0° ∡ ″		max. Earth dist.	8465 Oct 23 18:46	10°M32'39	1.33334 AU
evening rise	8464 Nov 14 05:07	6° ∡ 757'29		evening rise	8465 Oct 28 17:31	20°M43'33	
desc. node	8464 Nov 23 06:52	23° ∡ 15′27		Č	8465 Nov 02 13:02	0° ∡ ¹	
	8464 Nov 27 09:52	აი		desc. node	8465 Nov 10 03:54	13° ∡ 19'50	
evening max el	8464 Dec 19 09:36	28° る 46'05	26°47'15		8465 Nov 21 08:39	ರ°0	
C	8464 Dec 20 17:19	0° ≈		evening max el	8465 Dec 01 22:17	12° る 12'34	27°21'47
retrograde	8465 Jan 01 12:35	6° ≈ 04'13		retrograde	8465 Dec 15 11:15	19° る 32'34	
evening set	8465 Jan 08 01:30	3° ≈ 29'10		evening set	8465 Dec 22 09:19	16° ප 57'30	
•	8465 Jan 11 14:53	30°Rる		min. Earth dist.	8465 Dec 26 05:03	13° る 28'39	0.64431 AU
min. Earth dist.	8465 Jan 12 02:32		0.65957 AU	inferior conj	8465 Dec 28 15:03	10° ප 54'18	-1°37'49
inferior conj	8465 Jan 14 00:49	27° る 11'33	-0°32'11	minimum elong	8465 Dec 28 18:03	10° පි 46'17	1°36'22
minimum elong	8465 Jan 14 01:44	27° る 08'54	0°31'38	asc. node	8466 Jan 02 12:17	6° る 24'27	
asc. node	8465 Jan 15 15:12	25° る 21'39		morning rise	8466 Jan 04 04:23	5° ට 29'00	
morning rise	8465 Jan 20 02:58	21° る 32'10		direct	8466 Jan 06 16:58	4° る 56'22	
direct	8465 Jan 22 23:28	20° る 47'12		morning max el	8466 Jan 13 03:41	8° ප 18'42	17°53'21
morning max el	8465 Jan 29 10:49	24° る 14'48	18°16'03	C	8466 Jan 27 19:56	0° ≈	
C	8465 Feb 03 05:41	0° ≈		morning set	8466 Jan 30 06:37	4° ≈ 06'59	
morning set	8465 Feb 17 16:45	22° ≈ 27'28		desc. node	8466 Feb 06 03:15	15° ≈ 34'11	
desc. node	8465 Feb 19 06:19	24°≈58'28					
	8465 Feb 22 09:35	0° ∀		superior conj	8466 Feb 12 17:33	26° ≈ 18'32	-0°46'38
				minimum elong	8466 Feb 12 12:13	25° ≈ 57'08	
superior conj	8465 Mar 05 01:28	16° ¥ 52'12	-1°29'18		8466 Feb 15 00:55	0° ∀	-
minimum elong	8465 Mar 04 16:03	16°) (15'14		max. Earth dist.	8466 Feb 17 12:07	3°) 54'41	1.45011 AU
max. Earth dist.	8465 Mar 06 16:28		1.45524 AU	evening rise	8466 Feb 28 17:05	21° ¥ 20'35	
	8465 Mar 13 11:00	0° Υ		Č	8466 Mar 06 09:09	0° Υ	
evening rise	8465 Mar 21 03:00	11° Υ 58'21		greatest brilliancy	8466 Mar 15 14:18	13° Υ '45'52	-0.6m
				-			

evening max el	8466 Mar 27 17:46	29° Ƴ 35'15	20°08'18	max. Earth dist.	8467 Jan 31 04:49	18° ≈ 06'49	1.43822 AU
evening man er	8466 Mar 28 03:40	0°8	20 00 10	man Barm digt.	8467 Feb 07 17:21	0° ∀	1.10022110
asc. node	8466 Mar 31 11:09	2° 8 43'24		evening rise	8467 Feb 08 05:28	0°) 46′57	
retrograde	8466 Apr 04 11:36	4° 8 04'43		<i>y</i>	8467 Feb 28 00:03	$0^{\circ}\Upsilon$	
evening set	8466 Apr 08 08:07	2° 8 38'26		evening max el	8467 Mar 10 16:10	13° Y 14'53	21°16'45
Ü	8466 Apr 11 00:52	30° ₹ Υ		asc. node	8467 Mar 18 08:15	18° Ƴ 18'38	
inferior conj	8466 Apr 13 16:12	26° Ƴ 35'21	3°13'12	retrograde	8467 Mar 19 10:01	18° Ƴ 24'30	
minimum elong	8466 Apr 13 14:52	26° Ƴ 39'53	3°12'58	evening set	8467 Mar 23 16:17	16° Ƴ 43'08	
min. Earth dist.	8466 Apr 14 12:37	25° Y 26′06	0.67587 AU	inferior conj	8467 Mar 28 23:33	10° Ƴ 28'32	2°52'54
morning rise	8466 Apr 18 21:22	20° Υ 18'21		minimum elong	8467 Mar 28 21:33	10° Ƴ 35'29	2°52'28
direct	8466 Apr 24 15:37	17° Ƴ 44'08		min. Earth dist.	8467 Mar 29 06:46	10° Ƴ 03'27	0.68232 AU
desc. node	8466 May 05 03:02	23° Y 34'04		morning rise	8467 Apr 03 02:36	4° Υ 14'36	
morning max el	8466 May 06 06:41	24° Y 42'08	24°46'32	direct	8467 Apr 08 07:18	1° Ƴ 57'54	
	8466 May 11 01:13	0°8		morning max el	8467 Apr 18 16:12	8° Ƴ 08'02	23°17'00
	8466 Jun 01 04:14	0°II		desc. node	8467 Apr 22 00:00	11° Υ 44'40	
morning set	8466 Jun 11 05:25	16° Ⅱ 53'17			8467 May 05 18:20	0°8	
max. Earth dist.	8466 Jun 14 20:16	23° II 23'53	1.37166 AU	morning set	8467 May 23 12:57	27° 8 46'00	
max. Earth dist.	8466 Jun 18 09:14	0°9	1.5 / 100 110	morning sec	8467 May 24 20:44	0°II	
	0400 Juli 10 07.14	0 3		max. Earth dist.	8467 May 27 16:08	4° Ⅱ 49'09	1.39398 AU
superior conj	8466 Jun 21 12:21	6°501'21	0°56'04	max. Earth dist.	6407 May 27 10.06	4 114909	1.39398 AU
minimum elong	8466 Jun 21 15:49	6°9518'14		superior conj	8467 Jun 04 07:29	18° Ⅲ 32'01	1027107
•			0 33 39			18° I I56'40	
asc. node	8466 Jun 27 10:12	17°5945'49		minimum elong	8467 Jun 04 12:48		1-20-35
evening rise	8466 Jun 29 23:49	22°955'10			8467 Jun 10 08:59	0°95	
	8466 Jul 03 13:55	0° Ω	1002424	evening rise	8467 Jun 13 18:53	6°934'50	
evening max el	8466 Jul 16 21:03	20° Ω 29'14	19°24'34	asc. node	8467 Jun 14 07:13	7° 9 34'13	
retrograde	8466 Jul 26 07:59	25° Ω 09'37			8467 Jun 27 13:19	0 $^{\circ}$ Ω	
evening set	8466 Jul 28 04:31	24° Ω 59'35		evening max el	8467 Jun 29 22:10	2° £ 38'33	18°38'09
desc. node	8466 Aug 01 02:12	23° Ω 40'11		retrograde	8467 Jul 07 22:04	6° Ω 36'54	
inferior conj	8466 Aug 05 20:27	20° Ω 52'30		evening set	8467 Jul 09 23:34	6° Ω 21'57	
minimum elong	8466 Aug 05 16:31	20° Ω 58'53	1°26'13	inferior conj	8467 Jul 17 20:13	1° Ω 56'44	
min. Earth dist.	8466 Aug 08 09:33	19° Ω 13'41	0.55721 AU	minimum elong	8467 Jul 17 20:59	1° Ω 55'18	0°19'52
morning rise	8466 Aug 14 01:52	16° Ω 16'56		desc. node	8467 Jul 18 23:18	1° Ω 05'10	
direct	8466 Aug 19 00:07	15° Ω 22'01			8467 Jul 20 09:52	30° ₹ 5	
morning max el	8466 Sep 02 01:38	22° Ω 26'58	25°11'41	min. Earth dist.	8467 Jul 21 02:53	29° © 28'52	0.57418 AU
	8466 Sep 08 18:30	O° m		morning rise	8467 Jul 25 14:52	26° 5 44'03	
asc. node	8466 Sep 23 09:51	23° m 54'21		direct	8467 Jul 31 09:02	25° 5 21'20	
	8466 Sep 26 10:30	0∘ ऌ			8467 Aug 11 10:07	$0 {\circ} \Omega$	
morning set	8466 Sep 28 15:01	4° £ 35'54		morning max el	8467 Aug 14 17:32	2° Ω 55′02	26°39'16
					8467 Sep 03 04:51	O° m y	
superior conj	8466 Oct 05 11:47	19° ≏ 35'17	1°35'22	asc. node	8467 Sep 10 06:48	13° m /31'41	
minimum elong	8466 Oct 05 10:20	19° ≏ 27'18	1°35'19	morning set	8467 Sep 13 01:10	19° m 17'01	
max. Earth dist.	8466 Oct 06 22:47	22° ≏ 47'06	1.32306 AU		8467 Sep 17 23:23	0∘ ত	
	8466 Oct 10 07:04	0°M₊					
evening rise	8466 Oct 12 15:25	4°M54'55		superior conj	8467 Sep 19 23:20	4° £ 25'53	1°24'24
	8466 Oct 26 04:33	0° ∡ 7		minimum elong	8467 Sep 19 21:16	4° £ 14'25	1°24'10
desc. node	8466 Oct 28 00:57	2° ∡ 758'19		max. Earth dist.	8467 Sep 20 07:30	5° ≙ 11'11	1.31746 AU
evening max el	8466 Nov 14 08:25	25° ∡ 10′50	27°27'51	evening rise	8467 Sep 26 20:00	19° ≙ 23'10	
	8466 Nov 20 11:46	0°ප			8467 Oct 02 01:29	0° M ₊	
retrograde	8466 Nov 28 03:14	2° ප 27'31		desc. node	8467 Oct 14 22:03	21°M59'43	
evening set	8466 Dec 05 05:31	0°る01'24			8467 Oct 20 18:56	0° ∡ ¹	
	8466 Dec 05 06:21	30°₽ ⋌ ¹		evening max el	8467 Oct 27 13:36	7° ∡ ¹27'49	27°00'50
min. Earth dist.	8466 Dec 08 21:56	27° ₹ '01'28	0.62599 AU	retrograde	8467 Nov 10 11:23	14° ∡ ³38'18	
inferior conj	8466 Dec 11 18:32	24° ₹ 18'12	-2°47'39	evening set	8467 Nov 17 10:10	12° ∡ ³32′05	
minimum elong	8466 Dec 11 23:52	24° ₹ 05'28	2°45'28	min. Earth dist.	8467 Nov 21 04:13	9° ∡ 751'51	0.60557 AU
morning rise	8466 Dec 18 20:20	19° х 10′05		inferior conj	8467 Nov 24 07:51	7° ∡ 13'30	
asc. node	8466 Dec 20 09:21	18° ∡ ⁴48'42		minimum elong	8467 Nov 24 14:58	6° ≯ 58'33	
direct	8466 Dec 21 03:23	18° ∡ ¹46'05		morning rise	8467 Dec 01 22:12	2° × ⁷ 25'30	
morning max el	8466 Dec 27 20:54	22° 🖈 12'33	17°48'12	direct	8467 Dec 04 02:56	2°×706'35	
ig mux oi	8467 Jan 02 21:32	0°る	1, .012	asc. node	8467 Dec 07 06:24	2° × ⁷ 47'08	
morning set	8467 Jan 12 20:07	16°පි54'32		morning max el	8467 Dec 11 11:01	5° × ⁷ 46'02	18°01'44
morning set	8467 Jan 20 07:40	10 ℃3432 0°≈		morning max ci	8467 Dec 26 20:17	0°る	10 01 77
	575/ Juli 20 07.40	· ~		morning set	8467 Dec 27 02:42	0° ろ 29'44	
superior conj	8467 Jan 24 09:18	6° ≈ 54'46	-0°02'48	morning set	0701 DCC 21 U2.42	0 02944	
minimum elong	8467 Jan 24 09:18 8467 Jan 24 09:02	6°≈53'41	0°02'37	superior conj	8468 Jan 06 02:16	18° る 42'31	0°35'11
•			0 0437	minimum elong	8468 Jan 06 04:56	18°る42'31	0°34'58
behind sun begin behind sun end	8467 Jan 24 00:07 8467 Jan 24 17:58	6°≈16'09 7°≈31'08		desc. node	8468 Jan 10 21:11	18°63421 27° る 01'25	0 5+30
desc. node				uesc. noue	8468 Jan 10 21:11 8468 Jan 12 15:25	2/° 5 01′25 0° ≈	
ucse. Hour	8467 Jan 24 00:13	6°≈16'35			0400 Jan 12 13.23	0 🗫	

max. Earth dist.	8468 Jan 13 16:54	1° ≈ 46'35	1.42089 AU	evening rise	8468 Dec 30 04:30	21° る 52'12	
evening rise	8468 Jan 19 06:37	1 ≈40 33 10°≈51'39	1.42009 AU	evening rise	8469 Jan 04 03:48	21 3 32 12 0° ≈	
evening rise	8468 Jan 31 18:37	10 ≈31 39 0° \				0 ∞ 0° ∀	
			22022154		8469 Jan 24 19:31		2205 4100
evening max el	8468 Feb 21 09:49	26°) ₹56'43	22°33'54	evening max el	8469 Feb 03 00:22	10°) 41'50	23°54'08
	8468 Feb 24 19:17			retrograde	8469 Feb 13 23:58	17°)(09'34	
retrograde	8468 Mar 02 06:36	2° Υ 47'36		evening set	8469 Feb 19 05:26	14°) €58'53	
asc. node	8468 Mar 04 05:23	2°Υ28'29		asc. node	8469 Feb 19 02:29	15° ¥ 05'03	
evening set	8468 Mar 06 23:54	0° Υ 51'14		min. Earth dist.	8469 Feb 23 23:47	9°)(27'48	0.68246 AU
	8468 Mar 07 22:18	30° ₹		inferior conj	8469 Feb 24 16:28	8°) €31'06	1°44'27
inferior conj	8468 Mar 12 08:16	24° ∺ 28'12		minimum elong	8469 Feb 24 14:25		1°43'49
minimum elong	8468 Mar 12 06:01	24°) ₹36'03	2°22'27	morning rise	8469 Mar 01 23:24	2° ¥ 27'53	
min. Earth dist.	8468 Mar 12 03:16	24°) 45′37	0.68445 AU	direct	8469 Mar 06 00:42	0°) 54'55	
morning rise	8468 Mar 17 11:58	18°) 18′53		morning max el	8469 Mar 13 23:59	5° ¥ 26'53	20°30'57
direct	8468 Mar 22 02:45	16° ∺ 23'31		desc. node	8469 Mar 25 17:54	20°) 16′50	
morning max el	8468 Mar 31 04:49	21°) (41'41	21°49'24		8469 Apr 01 09:59	0° Υ	
	8468 Apr 07 07:36	0° Υ		morning set	8469 Apr 11 21:32	15° Y 55'47	
desc. node	8468 Apr 07 20:58	0° Υ 43'22			8469 Apr 20 19:23	0° 8	
	8468 Apr 28 01:00	9° 8		max. Earth dist.	8469 Apr 20 22:26	0° 8 12'17	1.43481 AU
morning set	8468 May 02 17:14	7° 8 22'38					
max. Earth dist.	8468 May 08 15:30	17° 8 02'46	1.41595 AU	superior conj	8469 Apr 27 08:48	10° 8 44'18	-2°09'41
				minimum elong	8469 Apr 27 11:46	10° 8 56'38	2°09'44
superior conj	8468 May 16 07:48	0° Ⅱ 09'45	-1°53'29		8469 May 08 14:45	Π $^{\circ}0$	
minimum elong	8468 May 16 13:34	0° Ⅲ 35′02	1°53'08	evening rise	8469 May 09 17:24	1° Ⅲ 56'47	
	8468 May 16 05:35	Π $^{\circ}0$		asc. node	8469 May 18 01:19	16° Ⅱ 20'31	
evening rise	8468 May 27 02:15	19° Ⅱ 39'00		evening max el	8469 May 26 19:43	28° Ⅱ 30′50	18°05'28
asc. node	8468 May 31 04:16	27° Ⅲ 07'52			8469 May 28 12:24	0 \circ \odot	
	8468 Jun 01 18:43	0 \circ \odot		retrograde	8469 Jun 02 07:14	1° © 51'52	
evening max el	8468 Jun 12 07:02	15° © 22'47	18°12'06	evening set	8469 Jun 04 23:50	1° © 16'33	
retrograde	8468 Jun 19 06:56	18° © 54'32			8469 Jun 07 04:21	30° Ŗ Ⅱ	
evening set	8468 Jun 21 16:02	18° © 30'42		inferior conj	8469 Jun 11 09:40	26° Ⅱ 10'46	2°38'16
inferior conj	8468 Jun 28 17:36	13°5544'50	1°43'05	minimum elong	8469 Jun 11 12:29	26° Ⅲ 03'36	2°37'25
minimum elong	8468 Jun 28 20:28	13° © 38'31	1°41'59	min. Earth dist.	8469 Jun 14 10:08	23° Ⅲ 07'51	0.61811 AU
min. Earth dist.	8468 Jul 02 02:28	10°5947'29	0.59560 AU	morning rise	8469 Jun 17 23:07	20° Ⅲ 07'38	
desc. node	8468 Jul 04 20:23	8°941'59		desc. node	8469 Jun 21 17:27	18° Ⅱ 12'52	
morning rise	8468 Jul 05 21:52	8° © 01'49		direct	8469 Jun 24 16:23	17° Ⅱ 45'50	
direct	8468 Jul 12 07:21	6° © 07'40		morning max el	8469 Jul 08 20:42	25° ∏ 46'44	27°55'49
morning max el	8468 Jul 26 15:55	13°959'11	27°36'16		8469 Jul 12 18:22	0°ತಾ	
	8468 Aug 08 11:44	$0^{\circ}\Omega$			8469 Aug 02 00:24	$0^{\circ}\Omega$	
	8468 Aug 25 12:19	0° m/		morning set	8469 Aug 11 09:56	17° Ω 57'53	
morning set	8468 Aug 27 08:08	3° m 46'30		asc. node	8469 Aug 14 00:43	23° Ω 24'26	
asc. node	8468 Aug 27 03:46	3° m 23'40		max. Earth dist.	8469 Aug 17 01:16	29° Ω 53'24	1.32017 AU
max. Earth dist.	8468 Sep 02 17:39	17° m) 37'22	1.31651 AU		8469 Aug 17 02:29	0° m)	
		., .,			0.00, 1.00	- 4	
superior conj	8468 Sep 03 11:00	19° m 13'29	1°08'20	superior conj	8469 Aug 18 20:54	3° mp 51'38	0°47'31
minimum elong	8468 Sep 03 08:45	19° mp 01'02	1°07'56	minimum elong	8469 Aug 18 18:58	3° mp 41'03	0°47'04
	8468 Sep 08 08:08	0∘ ⊽		evening rise	8469 Aug 25 16:07	18° m) 43'52	
evening rise	8468 Sep 10 04:56	4° £ 01'52		evening rise	8469 Aug 31 03:22	0° ⊽	
e vennig rise	8468 Sep 23 21:42	0°M		desc. node	8469 Sep 17 16:15	27° Ω 06'56	
desc. node	8468 Sep 30 19:09	10°M09'27		evening max el	8469 Sep 20 01:35	29° Ω 34'18	24°33'16
evening max el	8468 Oct 08 11:30	18°M55'14	26°00'20	evening man er	8469 Sep 20 12:28	0°M	2. 33 10
retrograde	8468 Oct 22 09:43	25°M58'50	20 00 20	retrograde	8469 Oct 03 20:29	6° ™ 29'56	
evening set	8468 Oct 28 18:27	24°M22'36		evening set	8469 Oct 09 02:20	5°M28'48	
min. Earth dist.	8468 Nov 02 00:20	21°M47'31	0.58478 AU	min. Earth dist.	8469 Oct 14 12:35	2°M40'30	0.56600 AU
inferior conj	8468 Nov 05 03:33	19°M30'47		inferior conj	8469 Oct 17 03:02	1°M01'30	
minimum elong	8468 Nov 05 10:21	19°M18'21	4°55'44	minimum elong	8469 Oct 17 05:32	0°M57'32	
morning rise	8468 Nov 13 04:33	15°M05'09	4 33 44	minimum ciong	8469 Oct 18 18:17	30°R <u>Ω</u>	3 32 36
direct	8468 Nov 15 11:24	14°M48'02		morning rise	8469 Oct 25 10:53	26° ≏ 58'04	
asc. node	8468 Nov 23 03:25	14 11648 02 18°M 14'29		direct	8469 Oct 28 01:05	26° £ 38'04 26° £ 39'47	
morning max el	8468 Nov 23 18:22	18°1161429 18°11649'17	18°35'34	uncci	8469 Nov 05 06:39	26° 32 3947 0°M	
morning max er		18°11649'17 0° √ 7	10 33 34	morning may al		1°M12'18	10021126
morning sot	8468 Dec 01 23:19	0°×' 14° <i>×</i> ⁷ 37'20		morning max el asc. node	8469 Nov 06 15:24	4°M56'40	19°31'26
morning set	8468 Dec 09 21:09				8469 Nov 10 00:24		
	8468 Dec 17 21:11	0°₹		morning set	8469 Nov 23 23:36	29°M06'17	
annari ·	0460 D 10 16 20	10=20120	1904/27		8469 Nov 24 10:18	0° ∡	
superior conj	8468 Dec 18 16:30	1°る30'30	1°04'27	aumoni '	9460 D 01 22 50	150.704144	1024142
minimum elong	8468 Dec 18 19:54	1°₹46'19	1°04'13	superior conj	8469 Dec 01 22:58	15°×704'44	1°24'42
max. Earth dist.	8468 Dec 26 00:46	14°₹46'22	1.40015 AU	minimum elong	8469 Dec 02 01:43	15° 🗷 18'14	1°24'37
desc. node	8468 Dec 27 18:10	17° る 45'15		max. Earth dist.	8469 Dec 08 06:39	27° ₹ 06'58	1.37840 AU

evening rise	8469 Dec 09 20:34 8469 Dec 12 00:01	0°る 3°る49'53 8°る24'27		max. Earth dist.	8470 Nov 20 15:00 8470 Nov 24 14:26	9° 🗷 02'37 16° 🗷 37'27	1.35813 AU
desc. node	8469 Dec 14 15:10 8469 Dec 28 05:27	8° 6 2427		desc. node	8470 Dec 01 12:10 8470 Dec 02 03:41	28° メ 54'22 0°る	
evening max el	8470 Jan 16 13:32	24°≈29'22	25°10'51		8470 Dec 22 15:48	0° ≈	
Ü	8470 Jan 23 14:05	0°) €		evening max el	8470 Dec 30 02:33	8° ≈ 14'56	26°16'58
retrograde	8470 Jan 28 13:09	1°) €25'43		retrograde	8471 Jan 11 21:25	15° ≈ 29′02	
	8470 Feb 02 00:40	30° R ≈		evening set	8471 Jan 18 03:52	12° ≈ 56'37	
evening set	8470 Feb 03 07:20	29°≈02'26		min. Earth dist.	8471 Jan 22 08:08	8°≈34'51	0.66673 AU
asc. node min. Earth dist.	8470 Feb 05 23:34 8470 Feb 07 18:09	26°≈18'19 24°≈06'02	0.67649 AU	inferior conj minimum elong	8471 Jan 23 23:51 8471 Jan 23 23:47	6°≈33'19 6°≈33'33	0°02'41 0°02'49
inferior conj	8470 Feb 08 22:19	24 ≈00 02 22°≈34'18	0°57'32	transit middle	8471 Jan 23 23:47	6°≈33'33	0°02'49
minimum elong	8470 Feb 08 20:58	22°≈38'41	0°57'07	transit begin	8471 Jan 23 20:57	6°≈42'14	0 02 .9
morning rise	8470 Feb 14 10:55	16° ≈ 38'49		transit end	8471 Jan 24 02:37	6° ≈ 24'52	
direct	8470 Feb 17 23:45	15° ≈ 26′59		asc. node	8471 Jan 23 20:39	6° ≈ 43'09	
morning max el	8470 Feb 25 03:11	19° ≈ 24'24	19°26'06	morning rise	8471 Jan 29 20:27	0° ≈ 47'30	
1 202	8470 Mar 05 15:13	0°) (17140	0.7	11	8471 Jan 31 21:22	30°Rる	
greatest brilliancy desc. node	8470 Mar 09 23:13 8470 Mar 12 14:50	6° ★ 17'49 10° ★ 15'52	-0.7m	direct	8471 Feb 01 22:19 8471 Feb 02 23:34	29°る53'54 0°≈	
morning set	8470 Mar 21 20:03	24° X 21'08		morning max el	8471 Feb 02 23:34 8471 Feb 08 13:31	0 ≈ 3°≈29'19	18°36'53
morning sec	8470 Mar 25 11:43	0°Υ		desc. node	8471 Feb 27 11:44	0°) 32'54	10 30 23
max. Earth dist.	8470 Apr 03 12:12	14° Y 06′19	1.44821 AU		8471 Feb 27 03:22	0° ∀	
				morning set	8471 Mar 01 12:20	3°) 44′24	
superior conj	8470 Apr 07 09:20	20° Y 16′08					
minimum elong	8470 Apr 07 05:44	20° Y 01'46	2°09'30	superior conj	8471 Mar 17 16:38	29° ₩ 07'34	
	8470 Apr 13 10:05	0° 8		minimum elong	8471 Mar 17 07:28	28°\(\frac{1}{3}31'39	
evening rise	8470 Apr 21 11:50 8470 May 01 14:15	13° ႘ 19'44 0° Ⅱ		max. Earth dist.	8471 Mar 17 06:01 8471 Mar 18 06:02	28° ¥ 26'00 0° Ƴ	1.45476 AU
asc. node	8470 May 04 22:23	5° П 05'33		evening rise	8471 Apr 02 06:35	23° Υ 43'34	
evening max el	8470 May 10 08:58	11° ∏ 54'50	18°17'33		8471 Apr 06 04:55	0°8	
retrograde	8470 May 16 18:23	15° Ⅱ 19'40		greatest brilliancy	8471 Apr 10 12:06	6° 8 50'09	-0.8m
evening set	8470 May 19 18:10	14° ∏ 31′12		asc. node	8471 Apr 21 19:28	23° 8 13'35	
inferior conj	8470 May 25 16:23	9° ∏ 07'17	3°09'40	evening max el	8471 Apr 23 20:06	25° 8 27'51	18°47'43
minimum elong	8470 May 25 18:07	9° Ⅱ 02'20	3°09'16	retrograde	8471 Apr 30 12:15	29° 8 09'14	
min. Earth dist.	8470 May 28 03:16	6° П 20'19 2° П 53'19	0.63904 AU	evening set	8471 May 03 19:28	28° 8 06'40	3°22'16
morning rise direct	8470 May 31 16:53 8470 Jun 07 10:22	2 П 33 19 0° П 13'06		inferior conj minimum elong	8471 May 09 09:48 8471 May 09 10:12	22° 8 25'07	3°22'07
desc. node	8470 Jun 08 14:29	0° П 17'32		min. Earth dist.	8471 May 11 05:28	20° 8 10'53	0.65667 AU
morning max el	8470 Jun 21 05:50	8° Ⅱ 14'22	27°37'57	morning rise	8471 May 15 00:18	16° 8 08'16	
	8470 Jul 08 01:23	0 \circ \odot		direct	8471 May 21 11:59	13° 8 21'32	
	8470 Jul 25 06:56	0 ° Ω		desc. node	8471 May 26 11:28	14° 8 42'18	
morning set	8470 Jul 26 04:13	1° Ω 44'50		morning max el	8471 Jun 03 16:23	21° 8 10'34	26°48'12
max. Earth dist.	8470 Jul 31 02:24	11° Ω 48'21	1.32855 AU		8471 Jun 11 07:46	0° ©	
asc. node	8470 Jul 31 21:40	13° Ω 29'47		morning set	8471 Jul 01 05:27 8471 Jul 09 11:56	୦°୭ 14°୭59'00	
superior conj	8470 Aug 03 03:09	18° Ω 14'50	0°22'25	max. Earth dist.	8471 Jul 13 17:36	23°915'34	1.34177 AU
minimum elong	8470 Aug 03 02:05	18° Ω 09'06	0°22'04		8471 Jul 17 01:07	0°N	
_	8470 Aug 08 13:39	0° m/					
evening rise	8470 Aug 10 03:40	3°M 23'32		superior conj	8471 Jul 18 03:35	2° Ω 17'13	
	8470 Aug 24 13:34	0∘ ⊽		minimum elong	8471 Jul 18 03:56	2° Ω 19'02	0°06'26
evening max el	8470 Sep 01 12:49	9° Ω 47'03	22°54'10	behind sun begin	8471 Jul 17 22:38	1° Ω 51′29	
desc. node retrograde	8470 Sep 04 13:22 8470 Sep 14 19:12	12° £ 25'10 16° £ 24'40		behind sun end asc. node	8471 Jul 18 09:13 8471 Jul 18 18:39	2° Ω 46'39 3° Ω 35'51	
evening set	8470 Sep 18 12:51	15° £ 54'06		evening rise	8471 Jul 25 13:42	17° Ω 55'19	
min. Earth dist.	8470 Sep 25 21:10	12° Ω 34'49	0.55234 AU	evening rise	8471 Jul 31 13:49	0° m)	
inferior conj	8470 Sep 27 07:28	11° ≏ 45'33	-5°24'44	evening max el	8471 Aug 14 06:26	20° m/10'31	21°19'40
minimum elong	8470 Sep 27 02:25	11° ≏ 52'48	5°24'09	desc. node	8471 Aug 22 10:28	25° My $32'41$	
morning rise	8470 Oct 05 18:03	7° ≏ 56'29		retrograde	8471 Aug 26 08:44	26° Mp 10'16	
direct	8470 Oct 08 19:56	7° Ω 34'25	20040125	evening set	8471 Aug 28 19:24	25° Mp 56'28	4021115
morning max el asc. node	8470 Oct 19 23:45 8470 Oct 27 21:23	12° £ 47'56 22° £ 38'14	20°49'35	inferior conj minimum elong	8471 Sep 07 00:48 8471 Sep 06 15:15	21° m, 59'08 22° m, 12'31	-4°21'15 4°18'48
asc. node	8470 Nov 01 06:26	0°M		min. Earth dist.	8471 Sep 00 15:15 8471 Sep 07 05:58	21° m ₀ 51'51	0.54677 AU
morning set	8470 Nov 08 07:13	13°M48'08		morning rise	8471 Sep 15 11:50	18° m) 06'52	
Č				direct	8471 Sep 19 04:38	17° m 37'18	
superior conj	8470 Nov 15 17:07	29°M11'57	1°36'38	morning max el	8471 Oct 01 20:01	23° m 37'34	22°26'30
minimum elong	8470 Nov 15 18:39	29°M19'49	1°36'42		8471 Oct 07 12:20	0∘ ⊽	
	8470 Nov 16 02:30	0° ∡		asc. node	8471 Oct 14 18:20	11° ≏ 05'36	

	0.451.0	200 2 2 4 5 7			0.450.00	20 7 55120	2 401 212 0
morning set	8471 Oct 23 17:50	28° £ 36'57		morning max el	8472 Sep 12 09:00	3° m 55'29	24°12'30
	8471 Oct 24 09:34	0° M ₊		asc. node	8472 Sep 30 15:18	0° Ω 06'42	
					8472 Sep 30 13:53	0∘ ⊽	
superior conj	8471 Oct 30 19:27	13°M41'56	1°41'11	morning set	8472 Oct 07 05:36	13° ≏ 26'32	
minimum elong	8471 Oct 30 19:40	13°M43'06	1°41'18			_	
max. Earth dist.	8471 Nov 03 06:32	20°M56'51	1.34120 AU	superior conj	8472 Oct 14 03:06		1°39'12
evening rise	8471 Nov 07 19:59	0° ∡ 105'47		minimum elong	8472 Oct 14 02:10	28° ≏ 20'04	1°39'14
	8471 Nov 07 18:48	0°⊀			8472 Oct 14 20:33	0°M₊	
desc. node	8471 Nov 18 09:13	19° ∡ 10′08		max. Earth dist.	8472 Oct 16 06:30	3°M03'13	1.32847 AU
	8471 Nov 25 05:23	0°₹		evening rise	8472 Oct 21 12:52	14°M03'57	
evening max el	8471 Dec 12 15:43	21° る 51'47	27°05'05		8472 Oct 29 21:57	0° ∡ ¹	
retrograde	8471 Dec 25 23:56	29° る 12'26		desc. node	8472 Nov 04 06:18	9° ₰ 04'29	
evening set	8472 Jan 01 17:02	26° る 36'24			8472 Nov 19 06:40	0°₹	
min. Earth dist.	8472 Jan 05 15:38	22° る 48'32	0.65343 AU	evening max el	8472 Nov 24 03:48	5° る 08'18	27°28'13
inferior conj	8472 Jan 07 18:57	20°る23'51	-0°59'21	retrograde	8472 Dec 07 19:53	12° る 27'02	
minimum elong	8472 Jan 07 20:42	20°る18'56	0°58'26	evening set	8472 Dec 14 20:18	9° る 54'59	
asc. node	8472 Jan 10 17:43	17° る 16'09		min. Earth dist.	8472 Dec 18 14:26	6° る 38'48	0.63684 AU
morning rise	8472 Jan 14 01:39	14° පි 50'03		inferior conj	8472 Dec 21 05:00	3° る 59'29	-2°07'07
direct	8472 Jan 16 18:24	14° る 10'57		minimum elong	8472 Dec 21 09:00	3° る 49'17	2°05'20
morning max el	8472 Jan 23 04:46	17° る 35'28	18°04'15		8472 Dec 25 14:44	30°Ŗ ⋌ ¹	
	8472 Feb 01 09:48	0° ≈		morning rise	8472 Dec 27 23:31	28° ₮ 40'46	
morning set	8472 Feb 10 09:51	14° ≈ 35'40		asc. node	8472 Dec 27 14:47	28° ∡ ¹49'52	
desc. node	8472 Feb 14 08:39	21° ≈ 02'53		direct	8472 Dec 30 09:25	28° √ 12'14	
	8472 Feb 19 21:42	0°) €			8473 Jan 04 02:12	5°0	
				morning max el	8473 Jan 05 22:07	1° る 35'25	17°48'53
superior conj	8472 Feb 25 00:06	8°) €06'42	-1°11'59	morning set	8473 Jan 22 10:38	26° පි 46'39	
minimum elong	8472 Feb 24 15:56	7°) 34′28	1°10'54	-	8473 Jan 24 07:42	0° ≈	
max. Earth dist.	8472 Feb 28 01:22	12° 升 55′07	1.45392 AU	desc. node	8473 Jan 31 05:36	11° ≈ 41'36	
	8472 Mar 10 00:40	0 ° Υ					
evening rise	8472 Mar 12 04:17	3° Ƴ 19'46		superior conj	8473 Feb 04 01:22	18° ≈ 00'05	-0°27'38
greatest brilliancy	8472 Mar 25 08:51	23° Y 30'28	-0.7m	minimum elong	8473 Feb 03 22:20	17° ≈ 47'44	0°27'04
· ·	8472 Mar 29 20:05	0°8		max. Earth dist.	8473 Feb 09 20:04	27°≈19'05	1.44583 AU
evening max el	8472 Apr 06 03:07	9° 8 05'15	19°34'40		8473 Feb 11 12:40	0° ∀	
asc. node	8472 Apr 07 16:34	10° 8 33'20		evening rise	8473 Feb 19 15:42	12°) €38'55	
retrograde	8472 Apr 13 09:39	13° 8 14'22		Č	8473 Mar 03 03:41	$_0$ ° γ	
evening set	8472 Apr 17 01:02	11° 8 56'55		evening max el	8473 Mar 20 04:49	22° Ƴ 44'38	20°36'11
inferior conj	8472 Apr 22 10:39	6° 8 01'50	3°20'03	asc. node	8473 Mar 25 13:41	26° Y 51'12	
minimum elong	8472 Apr 22 09:51	6° 8 04'26	3°19'54	retrograde	8473 Mar 28 08:11	27° Y 30'10	
min. Earth dist.	8472 Apr 23 15:19	4° 8 27'04	0.67015 AU	evening set	8473 Apr 01 08:46	25° ℃ 57'27	
	8472 Apr 27 11:19	30°RƳ		inferior conj	8473 Apr 06 16:15	19° Ƴ 49'24	3°05'50
morning rise	8472 Apr 27 18:20	29° Ƴ 43'47		minimum elong	8473 Apr 06 14:35	19° Y 55'08	3°05'31
direct	8472 May 03 19:52	27° Y 02'03		min. Earth dist.	8473 Apr 07 06:57	18° Ƴ 58'57	0.67915 AU
	8472 May 11 03:20	0°8		morning rise	8473 Apr 11 20:11	13° Y 33'45	
desc. node	8472 May 12 08:28	0° 8 56'27		direct	8473 Apr 17 08:55	11° Ƴ 06'11	
morning max el	8472 May 16 02:11	4° 8 22'53	25°35'09	morning max el	8473 Apr 28 11:13	17° Ƴ 44'17	24°08'51
Ü	8472 Jun 04 16:45	0° I I		desc. node	8473 Apr 29 05:26	18° Ƴ 31'09	
morning set	8472 Jun 21 05:00	27° Ⅱ 28'44			8473 May 08 17:07	0°8	
Ü	8472 Jun 22 14:01	0ം ഉ			8473 May 28 18:04	0°Ⅲ	
max. Earth dist.	8472 Jun 24 21:50	4°9520'52	1.35967 AU	morning set	8473 Jun 03 02:24	9° Ⅱ 00'51	
				max. Earth dist.	8473 Jun 06 19:10		1.38102 AU
superior conj	8472 Jun 30 19:27	15° © 50'59	-0°37'35				
minimum elong	8472 Jun 30 21:42	16° © 02'17		superior conj	8473 Jun 13 23:23	28° Ⅱ 47'53	-1°09'31
asc. node	8472 Jul 04 15:38	23° © 38'11		minimum elong	8473 Jun 14 03:42	29° Ⅱ 08'33	
	8472 Jul 07 18:07	$0^{\circ}\Omega$		8	8473 Jun 14 14:27	0ಂತಾ	
evening rise	8472 Jul 08 20:03	2° Ω 12'32		asc. node	8473 Jun 21 12:41	13° © 33'09	
	8472 Jul 25 09:16	0° m/y		evening rise	8473 Jun 22 20:09	16°9508'32	
evening max el	8472 Jul 26 12:31	1° mp 10'55	20°00'50	evening rise	8473 Jun 30 03:45	0°N	
retrograde	8472 Aug 05 22:39	6° Mp 19'34	20 00 20	evening max el	8473 Jul 09 07:29	12° Ω 56′08	19°02'15
evening set	8472 Aug 07 20:05	6° mp 10'08		retrograde	8473 Jul 18 02:03	17° Ω 16'45	
desc. node	8472 Aug 07 20:03 8472 Aug 08 07:35	6° Mp 04'52		evening set	8473 Jul 20 00:16	17° Ω 05'02	
inferior conj	8472 Aug 16 20:43	2° Mp 10'40	-2°35'15	desc. node	8473 Jul 26 04:40	17° 0 0302	
minimum elong	8472 Aug 16 13:39	2° my 21'17		inferior conj	8473 Jul 28 08:19	12°Ω50'37	-0°39'29
min. Earth dist.	8472 Aug 18 16:42		0.55082 AU	minimum elong	8473 Jul 28 06:37	12° Ω 53'32	
Dartii dist.	8472 Aug 20 13:42	1 11/04 30 30°RΩ	3.55002 AU	min. Earth dist.	8473 Jul 31 06:49	12 ∂ €33 32 10° Ω 49'29	0.56374 AU
morning rise	8472 Aug 25 05:41	27° Ω 55'20		morning rise	8473 Aug 05 09:51	7° Ω 59'27	J.5057 Y 110
direct	8472 Aug 29 16:46	27° Ω 11'55		direct	8473 Aug 10 16:58	6° Ω 53'41	
311000	8472 Sep 07 09:41	0° m		morning max el	8473 Aug 10 10:38 8473 Aug 24 22:10	14° Ω 11'12	25°51'49
	3.,2 30p 0, 03.41	יעי י			5.,5.1ug 2 r 22.10		

	8473 Sep 06 11:24	0° m		morning may al	8474 Aug 06 16:50	24° © 52'57	27907'56
asc. node	8473 Sep 00 11.24 8473 Sep 17 12:17	رانا 0 19° m ر32'54		morning max el	8474 Aug 11 09:57	24 3 32 37	27 07 30
morning set	8473 Sep 21 16:50	28° My 12'13			8474 Aug 30 16:58	0° m/y	
morning set	8473 Sep 22 12:58	0° <u>م</u>		asc. node	8474 Sep 04 09:15	9° m)17'10	
	01/3 Бер 22 12.30	~		morning set	8474 Sep 06 01:53	12° m 49'16	
superior conj	8473 Sep 28 13:48	13° Ω 14'37	1°31'21	morning sec	0171 Sep 00 01.55	12 10 10 10	
minimum elong	8473 Sep 28 12:02	13° Ω 04'53	1°31'14	superior conj	8474 Sep 13 01:38	28° m 04'34	1°18'11
max. Earth dist.	8473 Sep 29 13:09	15° £ 23′28	1.32023 AU	minimum elong	8474 Sep 12 23:26	27° m 52'21	1°17'53
evening rise	8473 Oct 05 13:57	28° £ 23′20		max. Earth dist.	8474 Sep 12 23:06	27° m 50'31	1.31650 AU
<i>8</i>	8473 Oct 06 08:36	0°M			8474 Sep 13 22:25	0∘ ⊽	
desc. node	8473 Oct 22 03:23	28°M28'30		evening rise	8474 Sep 19 20:39	12° £ 56'44	
	8473 Oct 23 03:26	0° ∡ ″		C	8474 Sep 28 10:51	0° M	
evening max el	8473 Nov 06 12:21	17° ∡ 50'42	27°20'27	desc. node	8474 Oct 09 00:29	17° M .10'18	
retrograde	8473 Nov 20 08:19	25° ₹ 03'50		evening max el	8474 Oct 19 14:33	29°M47'02	26°38'51
evening set	8473 Nov 27 10:21	22° ∡ ¹45'00			8474 Oct 19 20:05	0° ∡ ¹	
min. Earth dist.	8473 Dec 01 02:46	19° ∡ 54'52	0.61755 AU	retrograde	8474 Nov 02 12:29	6° ₹ 154'41	
inferior conj	8473 Dec 04 02:54	17° ∡ 12'09	-3°17'33	evening set	8474 Nov 09 07:02	4° ₹ 159'46	
minimum elong	8473 Dec 04 09:07	16° ₹ 58'03	3°15'13	min. Earth dist.	8474 Nov 13 04:20	2° ≯ 24'10	0.59669 AU
morning rise	8473 Dec 11 10:06	12° ∡ °12′01		inferior conj	8474 Nov 16 09:10	29°M52'43	-4°24'28
direct	8473 Dec 13 15:52	11° ∡ 750′27		minimum elong	8474 Nov 16 16:32	29°M38'09	4°22'23
asc. node	8473 Dec 14 11:50	11° ₹ 53'31			8474 Nov 16 05:30	30°RM₊	
morning max el	8473 Dec 20 14:23	15° х 21′06	17°51'35	morning rise	8474 Nov 24 04:27	25°M14'23	
	8473 Dec 30 18:16	8°0		direct	8474 Nov 26 09:34	24°M56'35	
morning set	8474 Jan 05 08:07	9° る 56'28		asc. node	8474 Dec 01 08:52	26°M31'42	
				morning max el	8474 Dec 04 02:10	28°M43'44	18°13'35
superior conj	8474 Jan 16 04:04	29° る 07'01	0°14'19		8474 Dec 05 07:25	0° ∡	
minimum elong	8474 Jan 16 05:21	29° る 12'34	0°14'18	morning set	8474 Dec 19 20:20	23° ҂ ¹47'29	
behind sun begin	8474 Jan 16 01:28	28° る 55'54			8474 Dec 23 03:11	8°0	
behind sun end	8474 Jan 16 09:14	29° る 29'13					
	8474 Jan 16 16:26	0° ≈		superior conj	8474 Dec 29 06:49	11° る 23'07	0°48'43
desc. node	8474 Jan 18 02:33	2° ≈ 25′05		minimum elong	8474 Dec 29 10:01	11° る 37'35	0°48'26
max. Earth dist.	8474 Jan 23 11:32	11° ≈ 20′55	1.43142 AU	desc. node	8475 Jan 04 23:32	23° る 10'13	
evening rise	8474 Jan 30 08:02	22° ≈ 17'51		max. Earth dist.	8475 Jan 05 21:51	24° る 45'11	1.41233 AU
	8474 Feb 04 07:48	0°) €			8475 Jan 09 01:09	0° ≈	
	8474 Feb 25 10:54	0 ° Υ		evening rise	8475 Jan 10 17:33	2° ≈ 45'30	
evening max el	8474 Mar 03 01:02	6° Y 24'36	21°48'52		8475 Jan 28 16:10	0° ∀	
retrograde	8474 Mar 12 05:56	11° Y 51'36		evening max el	8475 Feb 13 16:58	20° ₩ 07'07	23°07'55
asc. node	8474 Mar 12 10:48	11° Y 51'24		retrograde	8475 Feb 24 01:23	26°) 14′58	
evening set	8474 Mar 16 16:52	10° Y 03′33		asc. node	8475 Feb 27 07:53	25° ∺ 21'59	
inferior conj	8474 Mar 22 00:22	3° Y 44'58	2°41'21	evening set	8475 Feb 28 23:47	24° ∺ 12'09	
minimum elong	8474 Mar 21 22:13	3° Y 52'29	2°40'50	inferior conj	8475 Mar 06 09:05	17° ∺ 46′20	2°07'44
min. Earth dist.	8474 Mar 22 02:13	3° Y 38'34	0.68373 AU	minimum elong	8475 Mar 06 06:52	17° ∺ 54'02	2°07'05
	8474 Mar 24 19:48	30° ₹		min. Earth dist.	8475 Mar 05 22:59	18° ∺ 21'13	0.68409 AU
morning rise	8474 Mar 27 03:24	27°) €33'06		morning rise	8475 Mar 11 13:52	11° ∺ 39'28	
direct	8474 Apr 01 02:10	25° ¥ 25′22		direct	8475 Mar 15 22:42	9° ∺ 53'55	
	8474 Apr 09 15:36	0° Υ		morning max el	8475 Mar 24 12:52	14° 米 51′33	21°14'35
morning max el	8474 Apr 10 21:40	1°Υ12'48	22°39'08	desc. node	8475 Apr 02 23:19	26°) 18'12	
desc. node	8474 Apr 16 02:23	7° Υ 03'33			8475 Apr 05 15:34	0°Υ	
	8474 May 02 14:57	0° 8		morning set	8475 Apr 24 15:25	28° Y 26′24	
morning set	8474 May 14 22:33	19° 8 20'54	1 40054 477	10 A 11 A	8475 Apr 25 15:08	0° 8	
max. Earth dist.	8474 May 19 16:18	_	1.40354 AU	max. Earth dist.	8475 May 01 18:29	9° 8 52'57	1.42448 AU
	8474 May 21 06:28	Π °0			0.475.3.4 00 01 45	220 407112	2001150
·	0474 14 27 11 02	100T 5025	1920/10	superior conj	8475 May 09 01:45	22° 8 07'12	
superior conj	8474 May 27 11:02	10° I I56'36		minimum elong	8475 May 09 06:50	22° 8 28'59	2°01'48
minimum elong	8474 May 27 16:48	11° Ⅱ 22'48	1-38/39	avanii-	8475 May 13 14:30	0° Π	
evening rise	8474 Jun 06 10:43	29° ∏ 33'56		evening rise	8475 May 20 11:43	12° Ⅱ 19'08	
asa nada	8474 Jun 06 16:13	0°ಲ 3°೯15'30		asc. node	8475 May 26 06:44	22° Ⅱ 40'47 0° ©	
asc. node	8474 Jun 08 09:43 8474 Jun 22 12:15	3°515'39	18°24'35	avanina may al	8475 May 30 15:56 8475 Jun 05 23:03	0್ಲಿಕ್ 8ಂಪ12,06	18°06'58
evening max el		25°520'32	10 44 33	evening max el		8°915'06 11°9540'46	10 00 38
retrograde	8474 Jun 30 00:35	29°505'58		retrograde	8475 Jun 12 16:35		
evening set	8474 Jul 02 05:11 8474 Jul 09 17:24	28°547'40	0°58'51	evening set inferior conj	8475 Jun 15 04:46	11°5512'28	2°09'41
inferior conj minimum elong	8474 Jul 09 17:24 8474 Jul 09 19:23	24°©13'21 24°©09'21	0°58'51 0°57'58	minimum elong	8475 Jun 21 23:10 8475 Jun 22 02:12	6°©18'05 6°©10'56	2°09'41 2°08'38
min. Earth dist.	8474 Jul 13 02:25	24°909'21 21°930'22	0.58292 AU	min. Earth dist.	8475 Jun 25 05:28	3°515'09	0.60513 AU
desc. node	8474 Jul 13 02:25	21°930'22	0.36292 AU	morning rise	8475 Jun 28 20:58	0°924'53	0.00313 AU
morning rise	8474 Jul 17 06:10	18°946'27		desc. node	8475 Jun 29 22:49	0 €524 33 29° ∏ 46'47	
direct	8474 Jul 23 07:24	18 940 27 17°9 10'46		dese. Houc	8475 Jun 29 13:20	29 П 4647 30° ŖП	
ancei	57/7 Jul 25 07.24	1, 31040			5775 Jun 27 13.20	20 I \II	

11	0475 1 1 05 10 25	200 T 1750		t' .	04561 16 00 55	100 T 1720	
direct	8475 Jul 05 10:35	28° Ⅱ 17'58		direct	8476 Jun 16 23:55	10° Ⅱ 17'39	
	8475 Jul 11 15:58	0		morning max el	8476 Jul 01 01:02	18° Ⅱ 20'32	27°52'34
morning max el	8475 Jul 19 18:14	6° © 15'31	27°49'24		8476 Jul 10 19:57	0	
	8475 Aug 06 14:29	$0 { m ^o} \Omega$			8476 Jul 29 11:06	$0 {\circ} \Omega$	
morning set	8475 Aug 21 06:54	27° Ω 11'46		morning set	8476 Aug 04 05:49	11° Ω 13'38	
asc. node	8475 Aug 22 06:11	29° Ω 13'19		asc. node	8476 Aug 08 03:07	19° Ω 16'37	
	8475 Aug 22 15:03	0° m p		max. Earth dist.	8476 Aug 09 13:37	22° Ω 20′21	1.32304 AU
max. Earth dist.	8475 Aug 27 08:32	10° m) 13'11	1.31740 AU	mar. Bartii dige.	01/01148 07 10.57	22 002021	1.02001110
max. Larm dist.	0473 Aug 27 00.32	10 10 13 11	1.51740 AC	superior conj	8476 Aug 11 21:21	27° Ω 21'27	0°37'24
	0475 4 20 12 44	100m 40142	1000105		•		
superior conj	8475 Aug 28 12:44	12° m/48'43	1°00'05	minimum elong	8476 Aug 11 19:43	27° Ω 12'34	0°36'5/
minimum elong	8475 Aug 28 10:34	12°M 36'42	0°59'38		8476 Aug 13 02:25	0° ™	
evening rise	8475 Sep 04 06:44	27° Mp 37'11		evening rise	8476 Aug 18 18:17	12° Mp 18'50	
	8475 Sep 05 09:35	0∘ ⊽			8476 Aug 27 15:32	0∘ ⊽	
	8475 Sep 22 05:19	0° M.		desc. node	8476 Sep 11 18:42	21° ≏ 11'49	
desc. node	8475 Sep 25 21:36	4°M52'29		evening max el	8476 Sep 11 20:51	21° ≏ 17'03	23°51'47
evening max el	8475 Oct 01 08:44	10°M52'11	25°25'54	retrograde	8476 Sep 25 12:20	28° ≏ 06'45	
retrograde	8475 Oct 15 06:38	17°M53'52		evening set	8476 Sep 30 03:03	27° ≏ 20'09	
evening set	8475 Oct 21 05:22	16°MJ32'16		min. Earth dist.	8476 Oct 06 07:20	24° £ 20'26	0.55937 AU
-			0.57(22.41)		8476 Oct 08 07:20 8476 Oct 08 11:28	24° 2 0°20 23° 2 01'37	
min. Earth dist.	8475 Oct 25 20:47		0.57633 AU	inferior conj			
inferior conj	8475 Oct 28 20:28	11°M50'58		minimum elong	8476 Oct 08 10:53	23° Ω 02'29	5°35'48
minimum elong	8475 Oct 29 02:00	11°M41'26	5°15'33	morning rise	8476 Oct 16 20:49	19° ≏ 05'21	
morning rise	8475 Nov 06 00:59	7°M35'22		direct	8476 Oct 19 15:25	18° ≏ 45'49	
direct	8475 Nov 08 10:06	7°M18'16		morning max el	8476 Oct 29 21:29	23° ≏ 35'16	20°01'53
morning max el	8475 Nov 17 05:40	11°MJ31'45	18°56'32	asc. node	8476 Nov 04 02:50	29° ♀ 42'05	
asc. node	8475 Nov 18 05:51	12°M32'52			8476 Nov 04 07:58	0°M	
	8475 Nov 29 14:15	0° ∡ 7		morning set	8476 Nov 16 23:33	22°M40'22	
morning set	8475 Dec 03 18:36	8° × 705'11		morning set	8476 Nov 20 13:31	0° √	
morning set	6475 DCC 05 16.50	6 × 05 11			6470 NOV 20 13.31	0 🗴	
	0475 D 10 04 26	240 72242	101.410.6		047631 04 16 20	00 7000	1020142
superior conj	8475 Dec 12 04:36	24° × 32'43	1°14'06	superior conj	8476 Nov 24 16:30	8° ∡ ′22'06	1°30'43
minimum elong	8475 Dec 12 07:49	24° ≯ ¹48'08	1°13'54	minimum elong	8476 Nov 24 18:47	8° ∡ 33'29	1°30'42
	8475 Dec 15 02:04	0°ප		max. Earth dist.	8476 Nov 30 10:07	19° ∡ ³32'10	1.36957 AU
max. Earth dist.	8475 Dec 19 03:54	7° る 25'16	1.39087 AU	evening rise	8476 Dec 04 04:55	26° ∡ ³31′24	
desc. node	8475 Dec 22 20:31	13° る 52'35			8476 Dec 06 03:41	8°0	
evening rise	8475 Dec 23 00:51	14° る 11'05		desc. node	8476 Dec 08 17:32	4° る 28'20	
Č	8476 Jan 01 17:48	0° ≈			8476 Dec 25 05:26	0° ≈	
	8476 Jan 23 15:06	0° ∀		evening max el	8477 Jan 08 19:50	17° ≈ 40'58	25°40'42
evening max el	8476 Jan 27 06:38		24°27'32	retrograde	8477 Jan 21 04:24	24°≈45'54	23 40 42
•			24 2732	-			
retrograde	8476 Feb 07 17:15	10°) (34′54		evening set	8477 Jan 27 03:48	22°≈18'33	
evening set	8476 Feb 13 03:58	8° ∺ 18'39		asc. node	8477 Jan 31 02:04	18° ≈ 07'11	
asc. node	8476 Feb 14 04:58	7° ∺ 20′35		min. Earth dist.	8477 Jan 31 11:51	17° ≈ 36′36	0.67283 AU
min. Earth dist.	8476 Feb 17 18:58	3° ∺ 02'03	0.68039 AU	inferior conj	8477 Feb 01 20:49	15° ≈ 51'48	0°35'12
inferior conj	8476 Feb 18 16:31	1°) 49′52	1°25'32	minimum elong	8477 Feb 01 19:56	15° ≈ 54'36	0°34'59
minimum elong	8476 Feb 18 14:42	1° ¥ 55'57	1°24'58	morning rise	8477 Feb 07 12:31	9° ≈ 59'52	
	8476 Feb 20 01:50	30°R≈		direct	8477 Feb 10 20:32	8° ≈ 56′04	
morning rise	8476 Feb 24 01:34	25° ≈ 49'29		morning max el	8477 Feb 17 17:44	12° ≈ 42'39	19°03'02
direct	8476 Feb 27 21:20	24°≈25'50		Č	8477 Mar 02 16:01	0°) €	
morning max el	8476 Mar 06 11:24	28° ≈ 42'01	20°01'25	greatest brilliancy	8477 Mar 03 11:01	1° ¥ 12'00	-0.8m
morning max cr	8476 Mar 07 17:26	0° ∀	20 01 23	desc. node	8477 Mar 06 17:09	6° ¥ 10'41	0.0111
desc. node	8476 Mar 19 20:14	0 X 16° ¥ 03'24		morning set	8477 Mar 12 17:45	15° X 29'44	
desc. node				morning set			
	8476 Mar 29 03:57	0° Υ			8477 Mar 22 01:24	0°Υ	
morning set	8476 Apr 02 14:10	6° Y 46′52		max. Earth dist.	8477 Mar 26 19:44	7° Y 27'43	1.45194 AU
max. Earth dist.	8476 Apr 13 03:54	23° Y 20'46	1.44126 AU				
	8476 Apr 17 07:11	9° 8		superior conj	8477 Mar 29 07:47	11° Y ′24'12	-2°03'23
				minimum elong	8477 Mar 29 01:14	10° Ƴ 58′22	2°03'04
superior conj	8476 Apr 18 16:07	2° 8 13'58	-2°11'58	J	8477 Apr 09 22:37	0°8	
minimum elong	8476 Apr 18 16:37	2° 8 16'02		evening rise	8477 Apr 13 02:57	5° 8 11'02	
evening rise	8476 May 01 18:31	24° 8 14'00	- -		8477 Apr 28 21:03	0°Ⅱ	
5 , oming 1150	8476 May 05 03:05	0° Ⅱ		asc. node	8477 Apr 29 00:52	0° П 12'55	
000 m-J-	•						10020110
asc. node	8476 May 12 03:47	11° II 42'33	1000000	evening max el	8477 May 03 01:06	4° ∏ 59'37	18°28'19
evening max el	8476 May 19 12:22	21° Ⅲ 30′56	18°08'27	retrograde	8477 May 09 12:11	8° Ⅲ 29'35	
retrograde	8476 May 25 21:51	24° Ⅱ 51'46		evening set	8477 May 12 15:11	7° Ⅱ 35'05	
evening set	8476 May 28 17:30	24° Ⅱ 11′04		inferior conj	8477 May 18 09:37		3°17'02
inferior conj	8476 Jun 03 21:57	18° ∏ 57'44	2°54'09	minimum elong	8477 May 18 10:47	2° Ⅱ 00′36	3°16'46
minimum elong	8476 Jun 04 00:22	18° Ⅱ 51'13	2°53'31		8477 May 20 03:27	30° ₹ 8	
min. Earth dist.	8476 Jun 06 17:11	15° Ⅱ 58'57	0.62729 AU	min. Earth dist.	8477 May 20 14:05	29° 8 29'09	0.64705 AU
morning rise	8476 Jun 10 05:34	12° Ⅱ 49'03		morning rise	8477 May 24 05:31	25° 8 48'02	
•				•			
desc. node	8476 Jun 15 19:51	10° Ⅲ 22′00		direct	8477 May 30 21:20	23° 8 03'33	

desc. node	8477 Jun 02 16:53	23° 8 29'19		inferior conj	8478 May 02 06:36	15° 8 31'01	2022157
desc. node	8477 Jun 12 10:16	23 O 29 19 0° Ⅱ		minimum elong	8478 May 02 06:28	15° 8 31'27	3°22'48
morning max el	8477 Jun 12 10:10 8477 Jun 13 10:49	1° Ⅱ 00'36	2702015	min. Earth dist.	8478 May 03 19:40	13° 8 32'28	0.66299 AU
morning max er	8477 Jul 13 10:49 8477 Jul 04 22:22	0°99	27 20 13	morning rise	8478 May 07 17:50	9° 8 12'40	0.00299 AU
mamina sat				=	•	6° 8 27'08	
morning set	8477 Jul 18 19:57	24° © 46'56 0° Ω		direct	8478 May 14 01:33	8° 8 44'45	
E d Ed	8477 Jul 21 11:05		1 22250 ATT	desc. node	8478 May 20 13:52	· · · · · · ·	26010124
max. Earth dist.	8477 Jul 23 10:45	4° Ω 02'48	1.33358 AU	morning max el	8478 May 26 21:20	14° 8 05'24	26°19'24
asc. node	8477 Jul 26 00:05	9° £ 22′23			8478 Jun 08 19:34	0°II	
					8478 Jun 27 16:23	0°©	
superior conj	8477 Jul 27 01:23	11° Ω 36′09	0°10'39	morning set	8478 Jul 01 21:57	7° 5 43'08	
minimum elong	8477 Jul 27 00:51	11° Ω 33'19	0°10'22	max. Earth dist.	8478 Jul 05 21:30	15° © 20'06	1.34895 AU
behind sun begin	8477 Jul 26 20:37	11° Ω 10'51				_	
behind sun end	8477 Jul 27 05:05	11° Ω 55'49		superior conj	8478 Jul 10 22:31	25° © 26'47	
evening rise	8477 Aug 03 05:24	26° Ω 55'27		minimum elong	8478 Jul 10 23:37	25° © 32'29	0°19'20
	8477 Aug 04 16:34	0° m/		asc. node	8478 Jul 12 21:05	29° © 27'05	
	8477 Aug 22 23:01	0∘ ⊽			8478 Jul 13 03:26	$0 ^{\circ} \Omega$	
evening max el	8477 Aug 24 09:45	1° ≏ 29'30	22°12'39	evening rise	8478 Jul 18 14:10	11° Ω 21'39	
desc. node	8477 Aug 29 15:48	5° ≏ 37'59			8478 Jul 28 08:03	0° m ∕	
retrograde	8477 Sep 06 05:45	7° £ 52'44		evening max el	8478 Aug 06 08:04	12°M/05'04	20°43'40
evening set	8477 Sep 09 08:49	7° £ 31'05		desc. node	8478 Aug 16 12:56	17° m 40'28	
min. Earth dist.	8477 Sep 17 15:25	3° £ 54'35	0.54888 AU	retrograde	8478 Aug 17 17:56	17° m 44'09	
inferior conj	8477 Sep 18 09:39	3° £ 28'58	-5°04'29	evening set	8478 Aug 19 20:51	17° m 33'14	
minimum elong	8477 Sep 18 01:54	ვ° ჲ 39'52	5°03'07	inferior conj	8478 Aug 29 02:05	13° m 36'22	-3°39'42
C	8477 Sep 25 17:36	30°₽.₩		minimum elong	8478 Aug 28 16:51	13° m 49'34	3°36'51
morning rise	8477 Sep 26 20:36	29° m 41'10		min. Earth dist.	8478 Aug 30 00:27	13° Mp 04'23	0.54730 AU
direct	8477 Sep 30 04:49	29° m 16'15		morning rise	8478 Sep 06 12:46	9° m 36'55	
	8477 Oct 04 11:49	0∘ ⊽		direct	8478 Sep 10 12:53	9° m 02'36	
morning max el	8477 Oct 12 00:08	ა — 4° ჲ 49'08	21°28'55	morning max el	8478 Sep 23 16:25	15° m) 21'33	23°11'33
asc. node	8477 Oct 21 23:48	17° £ 44'13	21 2000	morning man vi	8478 Oct 05 02:33	0° ⊡	25 1155
use. Houe	8477 Oct 28 17:18	0°M		asc. node	8478 Oct 08 20:46	° - 26'39	
morning set	8477 Nov 01 08:44	7°M25'54		morning set	8478 Oct 16 20:02	22° £ 15′26	
morning set	04// NOV 01 00.44	7 1102334		morning set	8478 Oct 20 10:38	0°M	
superior conj	8477 Nov 08 14:31	22°M39'50	1°39'24		6478 OCt 20 10.38	O IIG	
minimum elong	8477 Nov 08 14:31 8477 Nov 08 15:29	22°M44'53	1°39'30	superior conj	8478 Oct 23 19:23	7° M .15'59	1°41'05
minimum clong	8477 Nov 08 13.29 8477 Nov 12 04:20	22 11 € 44 33	1 39 30	minimum elong		7°M14'23	1°41'12
may Earth dist			1 25051 ATT	2	8478 Oct 23 19:05		
max. Earth dist.	8477 Nov 12 21:30	1°×26'13	1.35051 AU	max. Earth dist.	8478 Oct 26 16:45	13°M24'47 23°M18'50	1.33517 AU
evening rise	8477 Nov 17 02:14	9° 🖈 37'25		evening rise	8478 Oct 31 12:57		
desc. node	8477 Nov 25 14:34	24° ₹ 53'05			8478 Nov 03 23:52	0° ∡ 7	
	8477 Nov 28 16:52	ව°0		desc. node	8478 Nov 12 11:38	15° ₹ 00'38	
	8477 Dec 20 23:02	0° ≈	2 < 2 + 0 + 0 = 0		8478 Nov 22 08:33	0°る	25010120
evening max el	8477 Dec 22 09:12	1°≈24'54	26°40'02	evening max el	8478 Dec 04 21:59	14° ろ 54'11	27°18'20
retrograde	8478 Jan 04 10:08	8°≈42'06		retrograde	8478 Dec 18 09:54	22° る 14'49	
evening set	8478 Jan 10 21:30	6° ≈ 07'30		evening set	8478 Dec 25 06:50	19° ろ 39'08	
min. Earth dist.	8478 Jan 14 23:20	2° ≈ 00′21	0.66157 AU	min. Earth dist.	8478 Dec 29 03:13	16° ろ 05'33	
inferior conj	8478 Jan 16 19:57	29° る 48'18		inferior conj	8478 Dec 31 11:33	13° る 33'17	
minimum elong	8478 Jan 16 20:35	29° る 46'26	0°22'20	minimum elong	8478 Dec 31 14:13	13° る 26'04	1°26'11
	8478 Jan 16 16:01	30°₹ ⋜		asc. node	8479 Jan 04 20:14	9° ප 22'13	
asc. node	8478 Jan 17 23:09	28° る 28'45		morning rise	8479 Jan 06 23:08	8° る 05'49	
morning rise	8478 Jan 22 20:36	24° る 07'14		direct	8479 Jan 09 12:42	7° る 31'40	
direct	8478 Jan 25 18:27	23° る 20'07		morning max el	8479 Jan 15 23:07	10°る54'14	17°55'38
morning max el	8478 Feb 01 06:31	26° る 49'14	18°20'55		8479 Jan 29 03:49	0° ≈	
	8478 Feb 04 02:30	0° ≈		morning set	8479 Feb 02 08:03	6° ≈ 58'25	
morning set	8478 Feb 20 22:14	25° ≈ 30′50		desc. node	8479 Feb 08 10:59	17° ≈ 08'20	
desc. node	8478 Feb 21 14:03	26° ≈ 34'04					
	8478 Feb 23 17:38	0° ∀		superior conj	8479 Feb 16 02:09	29° ≈ 30'48	-0°53'25
				minimum elong	8479 Feb 15 20:01	29° ≈ 06'16	0°52'29
superior conj	8478 Mar 08 12:45	20° 升 12'32	-1°34'59		8479 Feb 16 09:28	0° ℋ	
minimum elong	8478 Mar 08 03:09	19°) 34'57	1°33'59	max. Earth dist.	8479 Feb 20 10:54	6°) €26'17	1.45134 AU
max. Earth dist.	8478 Mar 09 15:15	21°) 56′18	1.45538 AU	evening rise	8479 Mar 04 03:46	24°) €37'49	
	8478 Mar 14 18:57	$0^{\circ}\mathbf{\Upsilon}$		-	8479 Mar 07 15:51	$0^{\circ}\mathbf{\Upsilon}$	
evening rise	8478 Mar 24 12:07	15°Υ13'06		greatest brilliancy	8479 Mar 18 19:26	16° Ƴ 46'11	-0.6m
Č	8478 Apr 02 22:46	0°8			8479 Mar 28 14:41	0°8	
greatest brilliancy	8478 Apr 04 00:04	1° 8 37'38	-0.8m	evening max el	8479 Mar 30 15:29	2° 8 13'18	19°59'07
asc. node	8478 Apr 15 21:59	18° 8 02'15		asc. node	8479 Apr 02 19:07	4° 8 57'28	*
evening max el	8478 Apr 16 10:44	18° 8 35'19	19°05'41	retrograde	8479 Apr 07 06:18	6° 8 37'23	
retrograde	8478 Apr 23 07:59	22° 8 27'05	-	evening set	8479 Apr 11 01:24	5° 8 13'28	
evening set	8478 Apr 26 18:39	21° 8 18'02			8479 Apr 15 19:36	30°RY	
	p. 20 10.07				p. 10 17.50		

inforior coni	9470 Amr. 16 00:49	29° Ƴ 12'18	2015122	ratra ara da	9490 Mar 21 04:45	20° Y ′56′02	
inferior conj	8479 Apr 16 09:48	29 γ 12 18 29° γ 16'22		retrograde	8480 Mar 21 04:45	20 γ 36 02 19° γ 16'58	
minimum elong	8479 Apr 16 08:36	29° 1622 27° Υ 56'20	3°15'09	evening set	8480 Mar 25 09:29		2°56'37
min. Earth dist.	8479 Apr 17 08:20		0.67454 AU	inferior conj	8480 Mar 30 16:45	13° Y ′04′02	
morning rise	8479 Apr 21 15:31	22° Y 54'52		minimum elong	8480 Mar 30 14:49	13° Y 10'43	2°56'13
direct	8479 Apr 27 11:41	20° Y 18′28		min. Earth dist.	8480 Mar 31 01:55	12° Υ 32'17	0.68166 AU
desc. node	8479 May 07 10:50	25° Y 36′14	24050124	morning rise	8480 Apr 04 19:57	6° Y 49'32	
morning max el	8479 May 09 06:58	27° Y 23′07	24°59'24	direct	8480 Apr 10 02:45	4° Υ 29'47	
	8479 May 11 17:50	0° B		morning max el	8480 Apr 20 16:12	10° Y 47'25	23°30'22
	8479 Jun 02 11:21	0°II		desc. node	8480 Apr 23 07:47	13° Ƴ 37'46	
morning set	8479 Jun 14 07:22	19° Ⅱ 50′23			8480 May 05 22:14	0° 8	
max. Earth dist.	8479 Jun 17 22:13	26° Ⅱ 24'12	1.36844 AU		8480 May 25 05:55	0°П	
	8479 Jun 19 20:29	0ං ව		morning set	8480 May 25 18:38	0°∏53'34	
				max. Earth dist.	8480 May 29 18:01	7° Ⅱ 43'40	1.39059 AU
superior conj	8479 Jun 24 09:45	8° © 45'47				—	
minimum elong	8479 Jun 24 12:53	9° © 01'14	0°50'49	superior conj	8480 Jun 06 07:18	21° ∐ 23'29	
asc. node	8479 Jun 29 18:08	19° © 26'55		minimum elong	8480 Jun 06 12:23	21° Ⅱ 47'17	1°22'04
evening rise	8479 Jul 02 18:13	25° © 30'54			8480 Jun 10 20:09	0 \circ ∞	
	8479 Jul 05 00:08	$0^{\circ}\Omega$		evening rise	8480 Jun 15 14:41	9° 5 014'49	
evening max el	8479 Jul 19 19:49	23° Ω 24'35	19°33'20	asc. node	8480 Jun 15 15:10	9° © 17'08	
retrograde	8479 Jul 29 12:44	28° Ω 12'08			8480 Jun 27 08:00	$0^{\circ}\Omega$	
evening set	8479 Jul 31 09:03	28° Ω 02'29		evening max el	8480 Jul 01 19:28	5° Ω 27'57	18°43'47
desc. node	8479 Aug 03 10:02	27° Ω 08'10		retrograde	8480 Jul 09 23:48	9° Ω 31'28	
inferior conj	8479 Aug 09 03:31	23° Ω 57'44	-1°45'21	evening set	8480 Jul 12 00:22	9° Ω 17'28	
minimum elong	8479 Aug 08 22:45	24° Ω 05′20	1°43'38	inferior conj	8480 Jul 20 00:01	4° Ω 55'17	0°05'21
min. Earth dist.	8479 Aug 11 12:41	22° Ω 27'10	0.55526 AU	minimum elong	8480 Jul 20 00:13	4° Ω 54'54	0°05'06
morning rise	8479 Aug 17 10:00	19° Ω 27'34		transit middle	8480 Jul 20 00:13	4° Ω 54'54	0°05'06
direct	8479 Aug 22 05:17	18° Ω 35'52		transit begin	8480 Jul 19 20:44	5° Ω 01′20	
morning max el	8479 Sep 05 04:53	25° Ω 35'52	24°56'45	transit end	8480 Jul 20 03:42	4° Ω 48'27	
	8479 Sep 09 08:27	0° m		desc. node	8480 Jul 20 07:07	4° Ω 42'07	
asc. node	8479 Sep 25 17:44	25° m/39'33		min. Earth dist.	8480 Jul 23 05:08	2° Ω 33'45	0.57130 AU
	8479 Sep 27 22:15	0∘ 亚			8480 Jul 27 10:24	30° ₹ 🥯	
morning set	8479 Oct 01 07:46	7° ≙ 04'17		morning rise	8480 Jul 27 20:35	29° © 48'05	
				direct	8480 Aug 02 12:06	28° © 29'51	
superior conj	8479 Oct 08 04:37	22° ≙ 03'10	1°36'33		8480 Aug 08 15:48	$0^{\circ}\Omega$	
minimum elong	8479 Oct 08 03:17	21° ≙ 55'54	1°36'33	morning max el	8480 Aug 16 19:52	5° Ω 59'42	26°27'51
max. Earth dist.	8479 Oct 09 19:43	25° £ 36'51	1.32429 AU		8480 Sep 03 11:50	0° m)	
	8479 Oct 11 20:28	0° M .		asc. node	8480 Sep 11 14:42	15° Mp 14'06	
evening rise	8479 Oct 15 09:41	7° II L27'11		morning set	8480 Sep 14 18:14	21° Mp 46'34	
-	8479 Oct 27 11:18	0° ∡ ¹			8480 Sep 18 13:15	0∘ ⊽	
desc. node	8479 Oct 30 08:44	4° ≯ ³43'40			·		
evening max el	8479 Nov 17 08:40	27° х 57'19	27°28'59	superior conj	8480 Sep 21 16:00	6° £ 53'35	1°26'25
-	8479 Nov 19 15:46	0°ರ		minimum elong	8480 Sep 21 13:59	6° ≏ 42'29	1°26'12
retrograde	8479 Dec 01 03:01	5° る 14'55		max. Earth dist.	8480 Sep 22 03:59	8° ഫ 00'03	1.31804 AU
evening set	8479 Dec 08 04:58	2° る 46'56		evening rise	8480 Sep 28 13:25	21° ≏ 53'21	
-	8479 Dec 11 14:23	30°R <i>≯</i>			8480 Oct 02 12:38	0° M ₊	
min. Earth dist.	8479 Dec 11 21:41	29° ∡ ¹42'59	0.62886 AU	desc. node	8480 Oct 16 05:50	23°M51'19	
inferior conj	8479 Dec 14 16:49	27° ₹ 00'15	-2°36'56		8480 Oct 20 14:07	0° ∡ ¹	
minimum elong	8479 Dec 14 21:48	26° ∡ ¹48'07	2°34'51	evening max el	8480 Oct 29 14:52	10° ∡ ¹21'19	27°07'01
morning rise	8479 Dec 21 16:43	21° ∡ ¹49'18		retrograde	8480 Nov 12 12:18	17° ∡ ³32'18	
asc. node	8479 Dec 22 17:15	21° ₹ 32'11		evening set	8480 Nov 19 12:09	15° ∡ ¹22'37	
direct	8479 Dec 24 00:22	21° ×7 24'17		min. Earth dist.	8480 Nov 23 05:36	12° ∡ 40′06	0.60870 AU
morning max el	8479 Dec 30 16:28	24° √ 49'45	17°47'48	inferior conj	8480 Nov 26 08:26	10° ₹ °00'12	-3°46'57
C	8480 Jan 03 22:35	0°ರ		minimum elong	8480 Nov 26 15:23	9° ∡ ¹45'20	3°44'36
morning set	8480 Jan 15 18:26	19° ට 36'51		morning rise	8480 Dec 03 20:58	5° х 08'50	
	8480 Jan 21 17:29	0°≈		direct	8480 Dec 06 01:50	4° × 749'19	
desc. node	8480 Jan 26 07:57	7° ≈ 49'45		asc. node	8480 Dec 08 14:16	5° √ 15'54	
***************************************		,		morning max el	8480 Dec 13 07:11	8° ∡ ¹26'21	17°58'28
superior conj	8480 Jan 27 14:02	9° ≈ 55'30	-0°09'12	8	8480 Dec 27 06:21	0°る	
minimum elong	8480 Jan 27 13:07	9° ≈ 51'39	0°08'54	morning set	8480 Dec 28 22:49	3° る 05'56	
behind sun begin	8480 Jan 27 05:23	9°≈19'24			3.22.2 00 2 0 22.1)		
behind sun end	8480 Jan 27 20:51	10°≈23'51		superior conj	8481 Jan 08 03:22	21° る 32'47	0°29'58
max. Earth dist.	8480 Feb 03 03:55	10 ≈2331 20°≈40'50	1.44040 AU	minimum elong	8481 Jan 08 05:45	21° る 3247 21° る 43'15	0°29'47
max. Darui Uist.	8480 Feb 09 01:18	20 ≈ 40 30 0° ∺	1.TTUTU AU	desc. node	8481 Jan 12 04:56	21 3 43 13 28° 3 34'24	U 2/4/
evening rise	8480 Feb 11 15:23	4° ₩ 00'51		dese. Houc	8481 Jan 13 01:08	26 O 3424 0° ≈	
evening 11sc	8480 Feb 29 02:40	4 γ (0031		max. Earth dist.	8481 Jan 15 16:56	0 ∞ 4°≈26'52	1.42375 AU
evening max el	8480 Mar 12 14:44	15° Υ 52'43	21°05'55	evening rise	8481 Jan 21 13:57	4 ≈20 32 13°≈58'22	1.723/3 AU
evening max ci		1.7 1.744.7	41 11.1.1.1	CVCIIIIE 1150	OTO 1 JAH 41 1.1)/	12 ~20 44	
asc. node	8480 Mar 19 16:13	20° Y 44'13		Ü	8481 Feb 01 00:28	0°) €	

	0401 E-L 22 00.02	200 1/2 4/22	22922105		0402 E-L 05 22.51	120W 10154	22942112
evening max el	8481 Feb 23 09:03	29°) (34′33 0° °	22°22'05	evening max el	8482 Feb 05 23:51	13° X 18'54	23-42-13
	8481 Feb 23 19:16			retrograde	8482 Feb 16 19:30	19°) 41'38	
retrograde	8481 Mar 05 01:38	5° Y 19'05		asc. node	8482 Feb 21 10:22	17° ¥ 58'37	
asc. node	8481 Mar 06 13:17	5° ℃ 07'57		evening set	8482 Feb 21 23:10	17° ∺ 32'51	
evening set	8481 Mar 09 17:15	3° Y 24'53		inferior conj	8482 Feb 27 09:42	11° ∺ 05'31	1°50'51
	8481 Mar 12 21:09	30° ₹ ₩		minimum elong	8482 Feb 27 07:36	11°) (12′44	1°50'13
inferior conj	8481 Mar 15 01:21	27° ₩ 03'00	2°28'11	min. Earth dist.	8482 Feb 26 18:42	11° ∺ 56'45	0.68301 AU
minimum elong	8481 Mar 14 23:07	27°) (10′49	2°27'35	morning rise	8482 Mar 04 16:00	5°) €01'24	
min. Earth dist.	8481 Mar 14 22:07	27°) (14′17	0.68442 AU	direct	8482 Mar 08 19:15	3° ¥ 25′13	
morning rise	8481 Mar 20 04:48	20°) 53′02		morning max el	8482 Mar 16 22:10	8° ¥ 03'21	20°41'54
direct	8481 Mar 24 21:42	18° ¥ 54'19		desc. node	8482 Mar 28 01:38	21°) 59'00	
morning max el	8481 Apr 03 04:05	24°)(19'47	22002102	desc. node	8482 Apr 02 15:15	0° Υ	
morning max ci	*	24 χ 1947 0° Υ	22 02 02	mamina sat	•	19° Y 21'56	
	8481 Apr 08 04:56			morning set	8482 Apr 15 10:10		
desc. node	8481 Apr 10 04:44	2° Y 30'11			8482 Apr 22 03:50	0° 8	
	8481 Apr 29 08:12	0°8		max. Earth dist.	8482 Apr 23 22:42	2° 8 52'32	1.43232 AU
morning set	8481 May 06 03:02	10° 8 41'30					
max. Earth dist.	8481 May 11 16:48	19° 8 50'20	1.41286 AU	superior conj	8482 Apr 30 15:21	13° 8 53'59	-2°08'09
	8481 May 17 15:30	Π $^{\circ}0$		minimum elong	8482 Apr 30 19:00	14° 8 09'20	2°08'08
					8482 May 10 00:02	$\Pi^{\circ}0$	
superior conj	8481 May 19 10:43	3° Ⅱ 09'51	-1°49'59	evening rise	8482 May 12 17:54	4° Ⅱ 50'23	
minimum elong	8481 May 19 16:34			asc. node	8482 May 20 09:14	18° Ⅱ 09'38	
evening rise	8481 May 30 00:03	22° I I24'54	1 1750	use. Houe	8482 May 28 12:20	0° ©	
-	•	28° I I53'21		avanina may al	-		10005!11
asc. node	8481 Jun 02 12:12			evening max el	8482 May 29 15:38		18°05'11
	8481 Jun 03 02:50	0°9		retrograde	8482 Jun 05 04:24	4°933'54	
evening max el	8481 Jun 15 03:22	18° © 07'14	18°14'40	evening set	8482 Jun 07 19:50	4°900'27	
retrograde	8481 Jun 22 06:03	21° © 41'56			8482 Jun 13 06:21	30°R Ⅱ	
evening set	8481 Jun 24 14:01	21° © 19'36		inferior conj	8482 Jun 14 07:46	28° Ⅱ 57'27	2°31'28
inferior conj	8481 Jul 01 18:14	16° © 36'37	1°32'19	minimum elong	8482 Jun 14 10:41	28° Ⅲ 50′11	2°30'36
minimum elong	8481 Jul 01 20:56	16° © 30'46	1°31'16	min. Earth dist.	8482 Jun 17 09:54	25° Ⅱ 53'52	0.61480 AU
min. Earth dist.	8481 Jul 05 03:29	13°9642'20	0.59229 AU	morning rise	8482 Jun 20 23:20	22° I I56'30	
desc. node	8481 Jul 07 04:10	12° © 08'58		desc. node	8482 Jun 24 01:13	21° Ⅱ 18'17	
morning rise	8481 Jul 09 00:46	10°957'33		direct	8482 Jun 27 15:49	20° Ⅱ 38'24	
direct	8481 Jul 15 08:22	9°908'12		morning max el	8482 Jul 11 21:14	28° I I38'39	27°55'23
	8481 Jul 29 17:12	16°957'13	27920106	morning max cr	8482 Jul 13 04:58	0°9	21 33 23
morning max el			27 30 00				
	8481 Aug 09 11:43	$\Omega^{\circ}\Omega$			8482 Aug 03 08:34	0° Ω	
	8481 Aug 27 00:11	0° m		morning set	8482 Aug 14 04:28	20° £ 32′25	
asc. node	8481 Aug 29 11:40	5° Mg 04'08		asc. node	8482 Aug 16 08:37	25° Ω 04'04	
morning set	8481 Aug 30 01:45	6° Mp 17′47			8482 Aug 18 16:02	0° m)	
max. Earth dist.	8481 Sep 05 14:12	20° m 26'39	1.31638 AU	max. Earth dist.	8482 Aug 19 22:28	2° Mp 45'09	1.31928 AU
superior conj	8481 Sep 06 03:42	21° m 41'33	1011106	superior conj	8482 Aug 21 13:59	6° m 21'30	0°50'59
1 3				1 3	•	~	
minimum elong	8481 Sep 06 01:27		1°10'42	minimum elong	8482 Aug 21 11:58	6° Mp 10'27	0°50'31
	8481 Sep 09 21:46	0∘ ⊽		evening rise	8482 Aug 28 08:45	21° m) 12'29	
evening rise	8481 Sep 12 21:48	6° £ 30'35			8482 Sep 01 14:04	0∘ ⊽	
	8481 Sep 25 02:48	0°M		desc. node	8482 Sep 20 00:02	29° ≏ 20'09	
desc. node	8481 Oct 03 02:56	12°M09'51			8482 Sep 20 14:15	0° M .	
evening max el	8481 Oct 11 13:55	21°M56'09	26°11'16	evening max el	8482 Sep 23 04:56	2°M41'38	24°47'29
retrograde	8481 Oct 25 12:00	29°M00'29		retrograde	8482 Oct 07 00:47	9°M39'16	
evening set	8481 Oct 31 23:46	27° M 19'11		evening set	8482 Oct 12 11:30	8°MJ32'45	
min. Earth dist.	8481 Nov 05 02:59	24°M44'35	0.58783 AU	min. Earth dist.	8482 Oct 17 16:07	5° M 47'42	0.56852 AU
inferior conj	8481 Nov 08 06:56	22°M23'37		inferior conj	8482 Oct 20 09:33	4°M01'58	-5°29'53
minimum elong	8481 Nov 08 14:01	22°M10'26		minimum elong	8482 Oct 20 12:59	3°M56'24	
morning rise	8481 Nov 16 06:34	17°M54'37	7 7/37	minimum ciong	8482 Oct 28 09:39	30°R ≏	3 27 30
•							
direct	8481 Nov 18 12:52	17°M37'22		morning rise	8482 Oct 28 16:42	29° £ 55'43	
asc. node	8481 Nov 25 11:16	20°M30'29		direct	8482 Oct 31 05:26	29° £ 37'51	
morning max el	8481 Nov 26 15:44	21°M34'34	18°29'12		8482 Nov 02 23:04	0°M₊	
	8481 Dec 03 03:45	0°⊀		morning max el	8482 Nov 09 14:37	4°M04'59	19°21'40
morning set	8481 Dec 12 15:44	17° ∡ 09′28		asc. node	8482 Nov 12 08:16	7°M02'50	
	8481 Dec 19 08:40	0°ಕ			8482 Nov 25 21:55	0° ∡ ¹	
				morning set	8482 Nov 26 17:14	1° ∡ ³36′14	
superior conj	8481 Dec 21 14:44	4° る 12'42	1°00'37	-			
minimum elong	8481 Dec 21 18:07	4° る 28'23	1°00'20	superior conj	8482 Dec 04 19:08	17° ∡ ⁴41'30	1°22'11
max. Earth dist.	8481 Dec 29 01:31	17° る 33'37	1.40334 AU	minimum elong	8482 Dec 04 22:02	17° х 55'38	1°22'03
desc. node	8481 Dec 30 01:54	19° る 18'33		viong	8482 Dec 11 07:29	0° ਰ	00
evening rise	8482 Jan 02 08:28	19 3 1833		max. Earth dist.	8482 Dec 11 07:29	0 ℃ 29° ҂ 759'17	1.38159 AU
evening 1150						6° る 39'49	1.50139 AU
	8482 Jan 05 12:11	0° ≈		evening rise	8482 Dec 15 00:56		
	8482 Jan 25 19:42	0° ℋ		desc. node	8482 Dec 16 22:54	9° る 58'57	

	8482 Dec 29 10:48	0° ≈			8483 Dec 03 12:43	0°ಕ	
evening max el	8483 Jan 19 13:04	0 ∞ 27°≈06'02	24°59'51		8483 Dec 03 12:45 8483 Dec 23 13:16	0°≈	
evening max er	8483 Jan 22 18:00	0° ∀	24 3731	evening max el	8484 Jan 02 02:06	0 ∞ 10°≈52'25	26°08'03
retrograde	8483 Jan 31 09:28	3° ¥ 59′07		retrograde	8484 Jan 14 18:35	18°≈04'46	20 00 03
evening set	8483 Feb 06 01:44	1°) 37′28		evening set	8484 Jan 20 23:12	15°≈33'31	
evening set	8483 Feb 07 18:06	30°R≈		min. Earth dist.	8484 Jan 25 04:25	11°≈06'26	0.66843 AU
asc. node	8483 Feb 08 07:26	29°≈23'01		asc. node	8484 Jan 26 04:32	9°≈52'02	0.000 13 710
min. Earth dist.	8483 Feb 10 13:32	26°≈35'53	0.67763 AU	inferior conj	8484 Jan 26 18:23	9°≈09'00	0°11'31
inferior conj	8483 Feb 11 16:02	25°≈08'55	1°05'10	minimum elong	8484 Jan 26 18:05	9° ≈ 09'57	0°11'33
minimum elong	8483 Feb 11 14:33	25°≈13'48	1°04'43	transit middle	8484 Jan 26 18:05	9° ≈ 09'57	0°11'33
morning rise	8483 Feb 17 03:39	19°≈12'11	1 01 15	transit begin	8484 Jan 26 16:05	9° ≈ 16'08	0 11 33
direct	8483 Feb 20 18:13	17°≈57'26		transit end	8484 Jan 26 20:04	9° ≈ 03'47	
morning max el	8483 Feb 28 00:12	21°≈59'21	19°34'46	morning rise	8484 Feb 01 13:39	3°≈21'27	
morning max or	8483 Mar 06 16:10	0° ∀	17 31 10	direct	8484 Feb 04 17:00	2°≈25'23	
greatest brilliancy	8483 Mar 12 17:34	8°) (37'47	-0.7m	morning max el	8484 Feb 11 09:35	6°≈03'28	18°43'06
desc. node	8483 Mar 14 22:33	11°) 54'35	0.7111	morning max er	8484 Feb 28 10:26	0° ∀	10 43 00
morning set	8483 Mar 25 07:52	27°) (43'33		desc. node	8484 Feb 29 19:29	2° ₩ 09'17	
morning set	8483 Mar 26 19:15	27 γ (43 33		morning set	8484 Mar 03 20:22	6°) 55'00	
max. Earth dist.	8483 Apr 06 11:18	16° Ƴ 39'54	1.44662 AU	morning set	8484 Mar 18 14:09	0° Υ	
max. Earm dist.	6463 Apr 00 11.16	10 1 39 34	1.44002 AU	max. Earth dist.	8484 Mar 19 04:29	0° Υ 56'07	1.45423 AU
superior conj	8483 Apr 10 19:17	23° Y '34'13	2°10'50	max. Earm dist.	0404 Mai 19 04.29	0 13007	1.43423 AU
	8483 Apr 10 16:48	23° Y 24'14		superior coni	8484 Mar 20 04:18	2° Y ′29'27	1052122
minimum elong	*	0° 8	2 1031	superior conj		2 γ 29 27 1° Υ 55'22	
	8483 Apr 14 18:43			minimum elong	8484 Mar 19 19:36	26° Y 54'10	1-32-33
evening rise	8483 Apr 24 15:39	16° 8 21'48		evening rise	8484 Apr 04 13:57		
,	8483 May 02 19:28	0°П		1 '11'	8484 Apr 06 12:14	0° 8	0.0
asc. node	8483 May 07 06:17	6° Ⅱ 59'23	10014126	greatest brilliancy	8484 Apr 11 21:01	8° 8 36'18	-0.9m
evening max el	8483 May 13 04:59	14° Ⅱ 34'07	18°14'36	asc. node	8484 Apr 23 03:23	25° 8 14'01	1004044
retrograde	8483 May 19 14:11	17° Ⅱ 57'36		evening max el	8484 Apr 25 16:39	28° 8 06'43	18°42'11
evening set	8483 May 22 12:51	17° Ⅱ 11'16			8484 Apr 27 20:09	0°П	
inferior conj	8483 May 28 12:34	11° Ⅱ 50'03	3°06'11	retrograde	8484 May 02 07:15	1° ∏ 44'45	
minimum elong	8483 May 28 14:30	11° Ⅱ 44'37	3°05'43	evening set	8484 May 05 13:21	0° ∏ 44′20	
min. Earth dist.	8483 May 31 01:42	8° ∏ 59'21	0.63609 AU		8484 May 06 14:32	30° ₹ 8	
morning rise	8483 Jun 03 14:49	5° Ⅲ 37'05		inferior conj	8484 May 11 04:38	25° 8 06'32	
direct	8483 Jun 10 08:42	2° ∏ 58'44		minimum elong	8484 May 11 05:15	25° 8 04'40	
desc. node	8483 Jun 10 22:14	2° ∏ 59'46		min. Earth dist.	8484 May 13 02:38	22° 8 45'34	0.65429 AU
morning max el	8483 Jun 24 05:55	11° ∏ 01'08	27°42'47	morning rise	8484 May 16 20:27	18° 8 48'48	
	8483 Jul 09 04:52	0°€		direct	8484 May 23 09:23	16° 8 02'09	
	8483 Jul 26 18:21	$0^{\circ}\Omega$		desc. node	8484 May 27 19:15	17° 8 05'38	
morning set	8483 Jul 29 00:03	4° Ω 23'43		morning max el	8484 Jun 05 16:20	23° 8 53'55	26°57'19
max. Earth dist.	8483 Aug 03 00:44		1.32694 AU		8484 Jun 11 03:16	Π °0	
asc. node	8483 Aug 03 05:35	15° Ω 09'11			8484 Jul 01 13:49	0 \circ \odot	
		_		morning set	8484 Jul 11 09:36	17° © 43'44	
superior conj	8483 Aug 05 20:55	20° Ω 47'31	0°26'30	max. Earth dist.	8484 Jul 15 17:29	26° © 14'46	1.33950 AU
minimum elong	8483 Aug 05 19:41	20° Ω 40′52	0°26'06		8484 Jul 17 13:45	0 \circ Ω	
	8483 Aug 10 02:49	0°Щ					
evening rise	8483 Aug 12 20:23	5° Mp 52′56		superior conj	8484 Jul 19 22:25	4° Ω 53'53	
	8483 Aug 25 14:03	0∘ ত		minimum elong	8484 Jul 19 22:32	4° Ω 54'27	0°01'54
evening max el	8483 Sep 04 16:05		23°09'07	behind sun begin	8484 Jul 19 16:53	4° Ω 24'55	
desc. node	8483 Sep 06 21:09	14° £ 55'36		behind sun end	8484 Jul 20 04:10	5° Ω 24'01	
retrograde	8483 Sep 18 01:30	19° ≏ 38′00		asc. node	8484 Jul 20 02:36	5° Ω 15'47	
evening set	8483 Sep 22 00:29	19° ≙ 03'45		evening rise	8484 Jul 27 06:49	20° Ω 26'36	
min. Earth dist.	8483 Sep 29 01:10		0.55388 AU		8484 Jul 31 23:15	0°Щ	
inferior conj	8483 Sep 30 16:32	14° £ 52'44	-5°29'31	evening max el	8484 Aug 16 08:17	23° Mp 16'22	21°32'56
minimum elong	8483 Sep 30 12:38	14° ≏ 58'25	5°29'09	desc. node	8484 Aug 23 18:16	28° Mp 24′54	
morning rise	8483 Oct 09 02:53	11° ≏ 02'18		retrograde	8484 Aug 28 15:39	29° Mg 22'32	
direct	8483 Oct 12 02:41	10° ≏ 41'01		evening set	8484 Aug 31 05:59	29° Mp 07'11	
morning max el	8483 Oct 23 00:59	15° ≏ 48'16	20°36'34	inferior conj	8484 Sep 09 10:43	25° m 09'07	
asc. node	8483 Oct 30 05:16	24° £ 36'31		minimum elong	8484 Sep 09 01:23		4°32'02
	8483 Nov 02 13:19	0° M.		min. Earth dist.	8484 Sep 09 09:50	25° Mp 10'21	0.54704 AU
morning set	8483 Nov 11 00:16	16°M16'41		morning rise	8484 Sep 17 21:45	21°Mp 18'35	
	8483 Nov 17 15:20	0°⊀		direct	8484 Sep 21 12:16	20° m 50'19	
				morning max el	8484 Oct 03 22:44	26° Mp 43'40	22°11'09
superior conj	8483 Nov 18 11:50	1° ∡ °44'45	1°35'18		8484 Oct 07 02:10	0∘ ত	
minimum elong	8483 Nov 18 13:34	1° ≯ 753'36	1°35'21	asc. node	8484 Oct 16 02:16	12° ≏ 57'40	
max. Earth dist.	8483 Nov 23 14:52	11° ∡ 756'47	1.36100 AU		8484 Oct 24 22:14	0° M	
evening rise	8483 Nov 27 12:50	19° ∡ ¹20'57		morning set	8484 Oct 25 10:35	1°M04'42	
desc. node	8483 Dec 03 19:56	0° る 30'46					

aumariar aani	9494 Nov. 01 12:00	16°ML11'40	1°40'53	morning set	8485 Oct 09 22:17	15° £ 54'33	
superior conj	8484 Nov 01 13:08			morning set			
minimum elong	8484 Nov 01 13:33	16°M13'51	1°41'02		8485 Oct 16 10:19	0° M .	
max. Earth dist.	8484 Nov 05 05:12	23°M50'00	1.34351 AU				
	8484 Nov 08 06:51	0°⊀		superior conj	8485 Oct 16 20:08	0°M53'17	1°39'52
evening rise	8484 Nov 09 16:23	2° ҂ 143'47		minimum elong	8485 Oct 16 19:22	0°M49'07	1°39'56
desc. node	8484 Nov 19 17:00	20° ҂ ¹49'03		max. Earth dist.	8485 Oct 19 04:05	5° ™ 54'46	1.33007 AU
	8484 Nov 25 10:20	0° ප		evening rise	8485 Oct 24 07:46	16°M38'01	
evening max el	8484 Dec 14 15:25	24° ප 31'36	26°59'21		8485 Oct 31 07:24	0° ∡ ¹	
Č	8484 Dec 21 16:47	0° ≈		desc. node	8485 Nov 06 14:05	10° ∡ 747'25	
retrograde	8484 Dec 27 21:59	1°≈51'32			8485 Nov 19 23:35	0°ਰ	
retrograde	8485 Jan 02 13:24	1 ≈31 32 30°Rる		arranina marral	8485 Nov 27 03:51	7°る52'27	27026120
		• -		evening max el			27 20 38
evening set	8485 Jan 03 13:38	29° る 15'49		retrograde	8485 Dec 10 18:51	15° る 11'32	
min. Earth dist.	8485 Jan 07 13:05	25° る 22'53	0.65564 AU	evening set	8485 Dec 17 18:34	12° る 38'19	
inferior conj	8485 Jan 09 14:38	23° る 01'19	-0°49'30	min. Earth dist.	8485 Dec 21 13:15	9° る 17'49	0.63950 AU
minimum elong	8485 Jan 09 16:04	22° る 57'12	0°48'43	inferior conj	8485 Dec 24 02:14	6° ප 40'05	-1°56'33
asc. node	8485 Jan 12 01:38	20° る 20'03		minimum elong	8485 Dec 24 05:52	6° る 30'38	1°54'53
morning rise	8485 Jan 15 19:42	17° る 25'26		asc. node	8485 Dec 29 22:42	1° る 42'28	
direct	8485 Jan 18 13:42	16° ප 44'21		morning rise	8485 Dec 30 18:54	1°る18'57	
morning max el	8485 Jan 25 00:16	20° ට 09'47	18°07'59	direct	8486 Jan 02 05:42	0° る 49'02	
morning max cr		20 ⊙ 0547	10 0/37		8486 Jan 08 17:31	4° ප 11'40	17950104
	8485 Feb 01 14:00			morning max el			17 30 04
morning set	8485 Feb 12 13:29	17° ≈ 33'26		morning set	8486 Jan 25 10:38	29° る 34'24	
desc. node	8485 Feb 15 16:24	22° ≈ 37'41			8486 Jan 25 16:38	0° ≈	
	8485 Feb 20 06:11	0° ∀		desc. node	8486 Feb 02 13:21	13° ≈ 15'43	
superior conj	8485 Feb 27 10:27	11° ∺ 23'58	-1°18'20	superior conj	8486 Feb 07 08:21	21° ≈ 07'48	-0°34'24
minimum elong	8485 Feb 27 01:43	10°) 49′36	1°17'14	minimum elong	8486 Feb 07 04:31	20°≈52'14	0°33'42
max. Earth dist.	8485 Mar 01 23:58	15° ¥ 25'38	1.45452 AU	_	8486 Feb 12 21:01	0° ∀	
	8485 Mar 11 08:15	$_{0}^{\circ}\mathbf{\gamma}$		max. Earth dist.	8486 Feb 12 19:17	29°≈53'06	1.44749 AU
evening rise	8485 Mar 15 14:18	6° Ƴ 36'05		evening rise	8486 Feb 23 02:23	15° ¥ 56′00	1, 1, 110
•	8485 Mar 28 03:27	25° Υ 53'49	-0.7m	evening rise	8486 Mar 04 09:07	0°Υ	
greatest brilliancy		0° 8	- 0. /III	. ,		0 γ 25°Υ23'08	2002(110
	8485 Mar 30 21:55	· . · .		evening max el	8486 Mar 23 02:56		20°26'10
evening max el	8485 Apr 09 00:25	11° 8 43'56	19°26'43	asc. node	8486 Mar 27 21:36	29° Y 10′25	
asc. node	8485 Apr 10 00:29	12° 8 42'04			8486 Mar 30 09:31	$_{0\circ}$ 8	
retrograde	8485 Apr 16 04:17	15° 8 48'05		retrograde	8486 Mar 31 02:48	0° 8 02'48	
evening set	8485 Apr 19 18:27	14° 8 32'48			8486 Mar 31 19:51	30° ŖƳ	
inferior conj	8485 Apr 25 04:34	8° 8 39'50	3°21'13	evening set	8486 Apr 04 01:59	28° Ƴ 32'16	
minimum elong	8485 Apr 25 03:57	8° 8 41'53	3°21'04	inferior conj	8486 Apr 09 09:37	22° Y 25'53	3°08'39
min. Earth dist.	8485 Apr 26 11:24	6° 8 58'44	0.66843 AU	minimum elong	8486 Apr 09 08:04	22° Υ 31'13	3°08'22
	-	2° 8 21'44	0.00643 AU	•	1	21° Υ 28'56	
morning rise	8485 Apr 30 13:05	_		min. Earth dist.	8486 Apr 10 02:16		0.67813 AU
	8485 May 04 09:50	30° ₹ Υ		morning rise	8486 Apr 14 13:56	16° ℃ 09'47	
direct	8485 May 06 16:22	29° Ƴ 38'41		direct	8486 Apr 20 04:37	13° Ƴ 39'50	
	8485 May 09 01:45	9° 8		morning max el	8486 May 01 11:26	20° Y 24'56	24°22'07
desc. node	8485 May 14 16:14	3° 8 05'16		desc. node	8486 May 01 13:10	20° Ƴ 29'21	
morning max el	8485 May 19 02:16	7° 8 04'17	25°47'09		8486 May 09 16:31	$B_{\circ 0}$	
	8485 Jun 05 21:30	$\Pi^{\circ}0$			8486 May 30 02:09	$\Pi^{\circ}0$	
morning set	8485 Jun 24 05:08	0°520'46		morning set	8486 Jun 06 05:44	12° Ⅱ 02'03	
morning sec	8485 Jun 24 00:35	0°95		max. Earth dist.	8486 Jun 09 21:26		1.37772 AU
max. Earth dist.	8485 Jun 27 23:22	7° 9 22'49	1.35678 AU	max. Larm dist.	8486 Jun 16 01:48	0°9	1.57772 AO
max. Earm dist.	0403 Juli 27 23.22	1 5022 49	1.55076 AU		0400 Juli 10 01.40	0 39	
	0405 1 1 02 15 15	100	0022144		04061 16 21 22	1000000	1004145
superior conj	8485 Jul 03 15:45	18° © 32'31		superior conj	8486 Jun 16 21:39	1° © 35'08	
minimum elong	8485 Jul 03 17:42	18° © 42'18	0°32'32	minimum elong	8486 Jun 17 01:40	1° © 54'31	1°04'16
asc. node	8485 Jul 06 23:35	25° © 19'00		asc. node	8486 Jun 23 20:36	15° © 15'17	
	8485 Jul 09 06:09	$0^{\circ}\Omega$		evening rise	8486 Jun 25 15:02	18° 5 46'02	
evening rise	8485 Jul 11 13:51	4° Ω 46'31			8486 Jul 01 10:54	$0^{\circ}\Omega$	
•	8485 Jul 25 21:12	0° m y		evening max el	8486 Jul 12 05:26	15° Ω 48'29	19°09'38
evening max el	8485 Jul 29 12:20	4° mp 10'08	20°11'16	retrograde	8486 Jul 21 05:33	20°Ω15'50	
•	8485 Aug 09 04:32	9° m/ 26'33	20 11 10	evening set	8486 Jul 23 03:03	20° Ω 04'48	
retrograde	•	-		•			
desc. node	8485 Aug 10 15:23	9° m 21'05		desc. node	8486 Jul 28 12:27	17° £ 51′10	0056417
evening set	8485 Aug 11 02:59	9° m 16'55		inferior conj	8486 Jul 31 13:56	15° Ω 52'58	
inferior conj	8485 Aug 20 05:15	5° m 18'34		minimum elong	8486 Jul 31 11:28	15° Ω 57'07	
minimum elong	8485 Aug 19 21:29	5° ™ 30'05	2°50'04	min. Earth dist.	8486 Aug 03 09:25	13° Ω 59'30	0.56132 AU
min. Earth dist.	8485 Aug 21 19:58	4° Mp 21′20	0.54966 AU	morning rise	8486 Aug 08 16:56	11° Ω 07′20	
morning rise	8485 Aug 28 14:50	1° m 07'57		direct	8486 Aug 13 20:58	10° Ω 05'35	
direct	8485 Sep 01 23:06	0° m 27'08		morning max el	8486 Aug 28 01:04	17° Ω 18'45	25°38'14
morning max el	8485 Sep 15 12:18	-	23°56'47		8486 Sep 07 11:48	0° m)	
morning max or	8485 Oct 01 22:30	ე∘ ত	25 50 47	asc. node	8486 Sep 19 20:11	21° Mp 17'23	
asa nada					-	-	
asc. node	8485 Oct 02 23:15	1° £ 54'19		morning set	8486 Sep 24 09:40	0° ჲ 41'18	

	8486 Sep 24 01:54	0∘ ত			8487 Aug 11 19:19	0°N	
	•				8487 Sep 01 02:23	0° m p	
superior conj	8486 Oct 01 06:29	15° ≏ 42'24	1°32'55	asc. node	8487 Sep 06 17:08	10° ™ 59'41	
minimum elong	8486 Oct 01 04:49	15° ≏ 33'15	1°32'49	morning set	8487 Sep 08 19:08	15° m 20'22	
max. Earth dist.	8486 Oct 02 09:54	18° ≏ 13′23	1.32112 AU				
	8486 Oct 07 21:16	0°M₊		superior conj	8487 Sep 15 18:15	0° ჲ 33'08	1°20'33
evening rise	8486 Oct 08 07:46	0°M54'43		minimum elong	8487 Sep 15 16:05	0° £ 21'07	1°20'15
desc. node	8486 Oct 24 11:11	0° ∡ 16′59		19 d 19 c	8487 Sep 15 12:17	0∘ ʊ	1 21 (52 17)
	8486 Oct 24 06:49	0° ⊀ 7	07000144	max. Earth dist.	8487 Sep 15 19:29	0° ჲ 40'03	1.31673 AU
evening max el	8486 Nov 09 12:57 8486 Nov 23 08:30	20° ₹ 40'26 27° ₹ 54'49	27°23'44	evening rise	8487 Sep 22 13:45	15° ≏ 26'48 0° ™	
retrograde evening set	8486 Nov 30 10:49	27 x ·3449 25° x ³ 33'12		desc. node	8487 Sep 29 20:00 8487 Oct 11 08:17	19°ML06'25	
min. Earth dist.	8486 Dec 04 03:06	22° 🖈 33 12	0.62053 AU	desc. Hode	8487 Oct 19 23:14	0° √	
inferior conj	8486 Dec 07 02:06	19° 🖈 56'42		evening max el	8487 Oct 22 16:09	2° х 44'08	26°47'11
minimum elong	8486 Dec 07 08:02	19° × ⁷ 43'02	3°04'39	retrograde	8487 Nov 05 14:05	9° × 752'54	20 17 11
morning rise	8486 Dec 14 07:27	14° × 753'48		evening set	8487 Nov 12 10:22	7° × 753'45	
direct	8486 Dec 16 13:36	14° ₹ 31'26		min. Earth dist.	8487 Nov 16 06:15	5° х 16′52	0.59982 AU
asc. node	8486 Dec 16 19:44	14° ₹ 31'44		inferior conj	8487 Nov 19 10:53	2° х 42′34	-4°15'01
morning max el	8486 Dec 23 10:10	18° ₹ '00'22	17°50'02	minimum elong	8487 Nov 19 18:13	2° ∡ ¹27'45	4°12'49
	8487 Jan 01 01:03	万 °0			8487 Nov 23 01:21	30°RM	
morning set	8487 Jan 08 05:26	12° る 36'47		morning rise	8487 Nov 27 04:30	28°M00'52	
	8487 Jan 18 02:09	0° ≈		direct	8487 Nov 29 09:21	27°M42'46	
				asc. node	8487 Dec 03 16:43	28° M 55'47	
superior conj	8487 Jan 19 07:13	2°≈04'12	0°08'21		8487 Dec 05 07:02	0°⊀	
minimum elong	8487 Jan 19 08:01	2°≈07'34	0°08'24	morning max el	8487 Dec 06 22:50	1° ≯ 27'02	18°09'00
behind sun begin	8487 Jan 19 00:32	1° ≈ 35'43		morning set	8487 Dec 22 15:43	26° ∡ 22'18	
behind sun end	8487 Jan 19 15:29	2° ≈ 39′20			8487 Dec 24 14:05	0°る	
desc. node	8487 Jan 20 10:19	3°≈59'02	1 42202 444		0400 1 01 06 27	1.40 7.10100	0044104
max. Earth dist.	8487 Jan 26 11:14	13°≈59'01	1.43392 AU	superior conj	8488 Jan 01 06:37	14°る10'29	0°44'04
evening rise	8487 Feb 02 17:03 8487 Feb 05 14:53	25° ≈ 29'58 0° 米		minimum elong desc. node	8488 Jan 01 09:40 8488 Jan 07 07:19	14°る24'11 24°る44'13	0°43'48
	8487 Feb 26 08:54	0 Υ 0° Υ		max. Earth dist.	8488 Jan 08 21:59	24 344 13 27° る 28'06	1.41539 AU
evening max el	8487 Mar 05 23:50	9° Υ 02'49	21°37'24	max. Earm dist.	8488 Jan 10 10:17	27 3 28 00 0 0 ∞	1.41339 AO
asc. node	8487 Mar 14 18:41	14° Υ 23'29	21 37 24	evening rise	8488 Jan 13 23:28	5°≈49'03	
retrograde	8487 Mar 15 00:48	14° Υ 23'49		evening rise	8488 Jan 29 20:11	0° ∀	
evening set	8487 Mar 19 10:06	12° Υ 38'01		evening max el	8488 Feb 16 16:16	22°) 44'54	22°55'58
inferior conj	8487 Mar 24 17:29	6° Y 20'42	2°45'39	retrograde	8488 Feb 26 20:42	28°) (47'03	
minimum elong	8487 Mar 24 15:22	6° Y 28′03	2°45'10	asc. node	8488 Feb 29 15:45	28°) €08'09	
min. Earth dist.	8487 Mar 24 21:10	6° Ƴ 07'52	0.68336 AU	evening set	8488 Mar 02 17:16	26°) 46′30	
morning rise	8487 Mar 29 20:28	0° Y 08'05		min. Earth dist.	8488 Mar 07 17:53	20°) 50′22	0.68431 AU
	8487 Mar 30 00:12	30° ₹ ₩		inferior conj	8488 Mar 08 02:12	20° ∺ 21′32	2°13'22
direct	8487 Apr 03 21:17	27°) € 57'12		minimum elong	8488 Mar 07 23:58	20°) 29′18	2°12'45
	8487 Apr 09 09:09	0°Υ		morning rise	8488 Mar 13 06:33	14°) 13′42	
morning max el	8487 Apr 13 21:29	3°Υ52'38	22°52'15	direct	8488 Mar 17 17:26	12°) 24'44	
desc. node	8487 Apr 18 10:06	8° Y 54'16		morning max el	8488 Mar 26 11:42		21°26'30
	8487 May 03 20:29	0°8		desc. node	8488 Apr 04 07:03	28°) €03'31 0° °	
morning set max. Earth dist.	8487 May 18 05:57 8487 May 22 17:57	22° 8 33'45 0° II 08'23	1.40020 AU		8488 Apr 05 17:29 8488 Apr 25 22:51	0° ∀	
max. Earm dist.	8487 May 22 17:59	0°II	1.40020 AU	morning set	8488 Apr 27 02:40	1° 8 49'44	
	6467 Way 22 13.39	υц		max. Earth dist.	8488 May 03 18:59		1.42158 AU
superior conj	8487 May 30 11:59	13° ∏ 51'38	-1°34'59	max. Earth dist.	0400 Way 05 10.57	12 03027	1.42130710
minimum elong	8487 May 30 17:38	14° Ⅱ 17'28		superior conj	8488 May 11 06:08	25° 8 11'48	-1°59'12
	8487 Jun 08 02:33	0ಂತಾ		minimum elong	8488 May 11 11:32	25° 8 35'09	
evening rise	8487 Jun 09 07:14	2°9516'40		C	8488 May 14 00:14	0° I I	
asc. node	8487 Jun 10 17:38	5° 5 00'09		evening rise	8488 May 22 10:32	15° Ⅱ 08'34	
evening max el	8487 Jun 25 08:58	28° © 07'48	18°28'57	asc. node	8488 May 27 14:39	24° Ⅱ 28′21	
	8487 Jun 27 13:40	$0^{\circ}\Omega$			8488 May 30 19:41	0 \circ \odot	
retrograde	8487 Jul 03 01:12	1° £ 57′36		evening max el	8488 Jun 07 19:08	10° © 58'43	18°08'22
evening set	8487 Jul 05 04:37	1° Ω 40'35		retrograde	8488 Jun 14 14:40	14° © 26'09	
	8487 Jul 08 21:42	30° ₹ 55		evening set	8488 Jun 17 01:46	13°959'30	
inferior conj	8487 Jul 12 19:45	27°509'30	0°45'37	inferior conj	8488 Jun 23 22:36	9° 5 08'11	2°00'42
minimum elong	8487 Jul 12 21:21	27°506'19	0°44'53	minimum elong	8488 Jun 24 01:37	9°501'15	1°59'38
desc. node min. Earth dist.	8487 Jul 15 09:29	25°507'09	0.57072 411	min. Earth dist.	8488 Jun 27 06:02	6° © 06'36	0.60177 AU
min. Earth dist. morning rise	8487 Jul 16 04:14 8487 Jul 20 10:37	24°531'20 21°547'20	0.57973 AU	morning rise desc. node	8488 Jun 30 22:39 8488 Jul 01 06:33	3°906'19	
direct	8487 Jul 26 09:24	21 \$34720 20°\$16'14		direct	8488 Jul 07 11:01	1°©15'39	
morning max el	8487 Aug 09 18:46	20 \$310 14 27° \$55'51	26°58'39	morning max el	8488 Jul 21 19:05	9° © 11'30	27°45'39
	5.0, 11ug 0, 10.40	2, -3331	20 20007		5.00 001 21 17.00	, -1150	2, 100)

	8488 Aug 06 18:48	$0^{\circ}\Omega$			8489 Jul 30 20:51	$0^{\circ}\Omega$	
marning ast	•	29° Ω 45'09		marning got	8489 Aug 07 00:49	13°Ω50'14	
morning set	8488 Aug 23 00:51			morning set	Č	20°Ω56'51	
1	8488 Aug 23 03:42	0°M)		asc. node	8489 Aug 10 11:05		1 22102 444
asc. node	8488 Aug 23 14:05	0° Mp 54′22		max. Earth dist.	8489 Aug 12 11:10	25° Ω 13'36	1.32193 AU
max. Earth dist.	8488 Aug 29 05:09	13° m 03'36	1.31695 AU			_	
				superior conj	8489 Aug 14 14:40	29° Ω 53′01	0°41'07
superior conj	8488 Aug 30 05:34	15° Mp 18'26	1°03'09	minimum elong	8489 Aug 14 12:55	29° Ω 43'27	0°40'40
minimum elong	8488 Aug 30 03:21	15°Mp06'11	1°02'42		8489 Aug 14 15:57	0° m)	
evening rise	8488 Sep 05 23:26	0° ჲ 06'29		evening rise	8489 Aug 21 10:54	14° m 48'15	
	8488 Sep 05 22:13	0∘ ⊽			8489 Aug 28 23:27	0∘ ⊽	
	8488 Sep 22 04:31	0° M.		desc. node	8489 Sep 14 02:28	23° ≏ 32'05	
desc. node	8488 Sep 27 05:22	6° ™ 58'48		evening max el	8489 Sep 15 00:21	24° ≏ 26'17	24°06'31
evening max el	8488 Oct 03 11:37	13°M57'01	25°38'29		8489 Sep 22 20:29	0° M ₊	
retrograde	8488 Oct 17 09:49	20°M59'27		retrograde	8489 Sep 28 17:13	1° M L18'10	
evening set	8488 Oct 23 12:16	19°M32'40		evening set	8489 Oct 03 13:25	0°M26'40	
min. Earth dist.	8488 Oct 28 00:00	16° ™ 55'44	0.57924 AU	8-11	8489 Oct 04 17:28	30°R <u>Ω</u>	
inferior conj	8488 Oct 31 01:09	14°M47'42		min. Earth dist.	8489 Oct 09 11:04	27° £ 31'18	0.56155 AU
minimum elong	8488 Oct 31 07:14		5°09'09	inferior conj	8489 Oct 11 19:05	26° ₽ 05'18	
•	8488 Nov 08 04:32	10°M28'33	3 09 09	minimum elong	8489 Oct 11 19:39	26° ⊆ 03'18 26° ⊆ 04'26	5°35'48
morning rise				_			3 33 40
direct	8488 Nov 10 12:42	10°M11'31	10040142	morning rise	8489 Oct 20 03:59	22° Ω 06'40	
morning max el	8488 Nov 19 03:45	14°M20'39	18°48'43	direct	8489 Oct 22 21:00	21° Ω 47'37	10050146
asc. node	8488 Nov 19 13:43	14°M45'09		morning max el	8489 Nov 01 21:25	26° △ 31'00	19°50'46
	8488 Nov 29 23:05	0°⊀			8489 Nov 05 02:08	0°M	
morning set	8488 Dec 05 12:43	10° ≯ 36'40		asc. node	8489 Nov 06 10:44	1° M 45'04	
				morning set	8489 Nov 19 16:53	25° ™ 10'04	
superior conj	8488 Dec 14 01:50	27° ∡ 12'45	1°10'50		8489 Nov 22 01:54	0° ∡ ¹	
minimum elong	8488 Dec 14 05:09	27° ∡ ¹28'25	1°10'36				
	8488 Dec 15 13:22	8°0		superior conj	8489 Nov 27 11:56	10° ∡ ¹57'10	1°28'42
max. Earth dist.	8488 Dec 21 04:30	10°る14'37	1.39414 AU	minimum elong	8489 Nov 27 14:24	11° ∡ ¹09'22	1°28'41
desc. node	8488 Dec 24 04:20	15° පි 27'18		max. Earth dist.	8489 Dec 03 10:37	22° ∡ ¹26'35	1.37263 AU
evening rise	8488 Dec 25 03:28	17° る 05'59		evening rise	8489 Dec 07 04:38	29° ∡ 18'46	
Č	8489 Jan 02 01:03	0° ≈		, and the second	8489 Dec 07 13:52	0°₹	
	8489 Jan 23 09:00	0° ∀		desc. node	8489 Dec 11 01:20	6° ප 04'30	
evening max el	8489 Jan 29 06:14	6°) 30'49	24°16'01	acco. noue	8489 Dec 26 08:21	0° ≈	
retrograde	8489 Feb 09 13:07	13° ¥ 07'56	24 1001	evening max el	8490 Jan 11 19:29	20°≈18'57	25°30'32
evening set	8489 Feb 14 21:58	10° X 53'39		retrograde	8490 Jan 24 00:59	20 ≈1037 27°≈20'55	23 30 32
asc. node	8489 Feb 15 12:50	10 X 33 39		C	8490 Jan 29 22:35	27 ≈20 33 24°≈54'57	
			0.60110.411	evening set			
min. Earth dist.	8489 Feb 19 14:08	5°) €31'57	0.68118 AU	asc. node	8490 Feb 02 09:57	21°≈15'34	0.67400 444
inferior conj	8489 Feb 20 09:58		1°32'30	min. Earth dist.	8490 Feb 03 07:35		0.67420 AU
minimum elong	8489 Feb 20 08:03	4°) €31'36	1°31'54	inferior conj	8490 Feb 04 14:52	18° ≈ 27'40	0°43'23
	8489 Feb 23 23:30	30°R≈		minimum elong	8490 Feb 04 13:49	18° ≈ 31'03	0°43'05
morning rise	8489 Feb 25 18:12	28° ≈ 23'42		morning rise	8490 Feb 10 05:26	12° ≈ 34'28	
direct	8489 Mar 01 15:54	26° ≈ 56'46		direct	8490 Feb 13 15:09	11° ≈ 27'52	
	8489 Mar 07 23:30	0° ∀		morning max el	8490 Feb 20 14:18	15° ≈ 17'51	19°10'45
morning max el	8489 Mar 09 09:02	1°) (18′16	20°11'27		8490 Mar 03 20:27	0° ∀	
desc. node	8489 Mar 22 04:00	17° ¥ 44'58		greatest brilliancy	8490 Mar 05 21:11	3° ₩ 02'01	-0.7m
	8489 Mar 30 10:17	0 ° Υ		desc. node	8490 Mar 09 00:55	7°) 49′22	
morning set	8489 Apr 06 02:58	10° Ƴ 13'42		morning set	8490 Mar 16 04:16	18°) 48′58	
max. Earth dist.	8489 Apr 16 03:36	25° Y 58'36	1.43914 AU		8490 Mar 23 09:08	$0^{\circ}\mathbf{\Upsilon}$	
	8489 Apr 18 15:36	0°8		max. Earth dist.	8490 Mar 29 18:53	10° Ƴ 01'48	1.45079 AU
	•						
superior conj	8489 Apr 22 00:17	5° 8 28'47	-2°11'33	superior conj	8490 Apr 01 18:49	14° Y 45'48	-2°06'01
minimum elong	8489 Apr 22 01:44	5° 8 34'46		minimum elong	8490 Apr 01 13:15	14° Y °23'47	
evening rise	0-107 /1pr 22 01	3 034 40	2 11 30	minimum ciong	0470 Apr 01 15.15		2 03 47
evening rise		270 🔀 12/01			9400 Apr 11 06:20	$_{\circ}$	
1	8489 May 04 20:24	27° 8 12'01		avanina risa	8490 Apr 11 06:39	0° 8	
asc. node	8489 May 04 20:24 8489 May 06 11:13	$\Pi^{\circ}0$		evening rise	8490 Apr 16 08:22	8° 8 18'06	
	8489 May 04 20:24 8489 May 06 11:13 8489 May 14 11:43	0° Ⅱ 13° Ⅱ 34'23	1000700		8490 Apr 16 08:22 8490 Apr 29 20:21	8°₩18'06	
evening max el	8489 May 04 20:24 8489 May 06 11:13 8489 May 14 11:43 8489 May 22 08:21	0°Ⅱ 13°Ⅱ34'23 24°Ⅱ12'25	18°07'00	asc. node	8490 Apr 16 08:22 8490 Apr 29 20:21 8490 May 01 08:48	8° В 18'06 0°П 2°П10'13	1002 413
retrograde	8489 May 04 20:24 8489 May 06 11:13 8489 May 14 11:43 8489 May 22 08:21 8489 May 28 18:18	0°П 13°П34'23 24°П12'25 27°П32'56	18°07'00	asc. node evening max el	8490 Apr 16 08:22 8490 Apr 29 20:21 8490 May 01 08:48 8490 May 05 21:21	8° 8 18'06 0° П 2° П 10'13 7° П 39'45	18°24'11
retrograde evening set	8489 May 04 20:24 8489 May 06 11:13 8489 May 14 11:43 8489 May 22 08:21 8489 May 28 18:18 8489 May 31 12:54	0°П 13°П34'23 24°П12'25 27°П32'56 26°П54'07		asc. node evening max el retrograde	8490 Apr 16 08:22 8490 Apr 29 20:21 8490 May 01 08:48 8490 May 05 21:21 8490 May 12 07:39	8°818'06 0°П 2°П10'13 7°П39'45 11°П07'37	18°24'11
retrograde evening set inferior conj	8489 May 04 20:24 8489 May 06 11:13 8489 May 14 11:43 8489 May 22 08:21 8489 May 28 18:18 8489 May 31 12:54 8489 Jun 06 19:10	0°П 13°П34'23 24°П12'25 27°П32'56 26°П54'07 21°П43'22	2°48'53	asc. node evening max el retrograde evening set	8490 Apr 16 08:22 8490 Apr 29 20:21 8490 May 01 08:48 8490 May 05 21:21 8490 May 12 07:39 8490 May 15 09:33	8°818'06 0°Ⅲ 2°Ⅲ10'13 7°Ⅲ39'45 11°Ⅲ07'37 10°Ⅲ15'12	
retrograde evening set inferior conj minimum elong	8489 May 04 20:24 8489 May 06 11:13 8489 May 14 11:43 8489 May 22 08:21 8489 May 28 18:18 8489 May 31 12:54 8489 Jun 06 19:10 8489 Jun 06 21:45	0°П 13°П34'23 24°П12'25 27°П32'56 26°П54'07 21°П43'22 21°П36'35	2°48'53 2°48'10	asc. node evening max el retrograde evening set inferior conj	8490 Apr 16 08:22 8490 Apr 29 20:21 8490 May 01 08:48 8490 May 05 21:21 8490 May 12 07:39 8490 May 15 09:33 8490 May 21 05:13	8°818'06 0°П 2°П10'13 7°П39'45 11°П07'37 10°П15'12 4°П46'35	3°14'43
retrograde evening set inferior conj minimum elong min. Earth dist.	8489 May 04 20:24 8489 May 06 11:13 8489 May 14 11:43 8489 May 22 08:21 8489 May 28 18:18 8489 May 31 12:54 8489 Jun 06 19:10 8489 Jun 06 21:45 8489 Jun 09 16:19	0°П 13°П34'23 24°П12'25 27°П32'56 26°П54'07 21°П43'22 21°П36'35 18°П42'46	2°48'53	asc. node evening max el retrograde evening set	8490 Apr 16 08:22 8490 Apr 29 20:21 8490 May 01 08:48 8490 May 05 21:21 8490 May 12 07:39 8490 May 15 09:33 8490 May 21 05:13 8490 May 21 06:35	8°818'06 0°П 2°П10'13 7°П39'45 11°П07'37 10°П15'12 4°П46'35 4°П42'34	3°14'43 3°14'24
retrograde evening set inferior conj minimum elong	8489 May 04 20:24 8489 May 06 11:13 8489 May 14 11:43 8489 May 22 08:21 8489 May 28 18:18 8489 May 31 12:54 8489 Jun 06 19:10 8489 Jun 06 21:45	0°П 13°П34'23 24°П12'25 27°П32'56 26°П54'07 21°П43'22 21°П36'35	2°48'53 2°48'10	asc. node evening max el retrograde evening set inferior conj	8490 Apr 16 08:22 8490 Apr 29 20:21 8490 May 01 08:48 8490 May 05 21:21 8490 May 12 07:39 8490 May 15 09:33 8490 May 21 05:13	8°818'06 0°П 2°П10'13 7°П39'45 11°П07'37 10°П15'12 4°П46'35	3°14'43
retrograde evening set inferior conj minimum elong min. Earth dist.	8489 May 04 20:24 8489 May 06 11:13 8489 May 14 11:43 8489 May 22 08:21 8489 May 28 18:18 8489 May 31 12:54 8489 Jun 06 19:10 8489 Jun 06 21:45 8489 Jun 09 16:19	0°П 13°П34'23 24°П12'25 27°П32'56 26°П54'07 21°П43'22 21°П36'35 18°П42'46	2°48'53 2°48'10	asc. node evening max el retrograde evening set inferior conj minimum elong	8490 Apr 16 08:22 8490 Apr 29 20:21 8490 May 01 08:48 8490 May 05 21:21 8490 May 12 07:39 8490 May 15 09:33 8490 May 21 05:13 8490 May 21 06:35	8°818'06 0°П 2°П10'13 7°П39'45 11°П07'37 10°П15'12 4°П46'35 4°П42'34	3°14'43 3°14'24
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8489 May 04 20:24 8489 May 06 11:13 8489 May 14 11:43 8489 May 22 08:21 8489 May 28 18:18 8489 May 31 12:54 8489 Jun 06 19:10 8489 Jun 06 21:45 8489 Jun 09 16:19 8489 Jun 13 04:47	0°П 13°П34'23 24°П12'25 27°П32'56 26°П54'07 21°П43'22 21°П36'35 18°П42'46 15°П36'32	2°48'53 2°48'10	asc. node evening max el retrograde evening set inferior conj minimum elong	8490 Apr 16 08:22 8490 Apr 29 20:21 8490 May 01 08:48 8490 May 05 21:21 8490 May 12 07:39 8490 May 15 09:33 8490 May 21 05:13 8490 May 21 06:35 8490 May 23 11:55	8°818'06 0°П 2°П10'13 7°П39'45 11°П07'37 10°П15'12 4°П46'35 4°П42'34 2°П07'14	3°14'43 3°14'24
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	8489 May 04 20:24 8489 May 06 11:13 8489 May 14 11:43 8489 May 22 08:21 8489 May 28 18:18 8489 May 31 12:54 8489 Jun 06 19:10 8489 Jun 06 21:45 8489 Jun 09 16:19 8489 Jun 13 04:47 8489 Jun 18 03:35	0°П 13°П34'23 24°П12'25 27°П32'56 26°П54'07 21°П43'22 21°П36'35 18°П42'46 15°П36'32 13°П18'33	2°48'53 2°48'10 0.62416 AU	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	8490 Apr 16 08:22 8490 Apr 29 20:21 8490 May 01 08:48 8490 May 05 21:21 8490 May 12 07:39 8490 May 15 09:33 8490 May 21 05:13 8490 May 21 06:35 8490 May 23 11:55 8490 May 25 11:31	8°818'06 0° II 2° II 10'13 7° II 39'45 11° II 07'37 10° II 15'12 4° II 46'35 4° II 42'34 2° II 07'14 30° R8	3°14'43 3°14'24
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	8489 May 04 20:24 8489 May 06 11:13 8489 May 14 11:43 8489 May 22 08:21 8489 May 28 18:18 8489 May 31 12:54 8489 Jun 06 19:10 8489 Jun 06 21:45 8489 Jun 09 16:19 8489 Jun 13 04:47 8489 Jun 18 03:35 8489 Jun 19 22:58	0°П 13°П34'23 24°П12'25 27°П32'56 26°П54'07 21°П43'22 21°П36'35 18°П42'46 15°П36'32 13°П18'33 13°П08'15	2°48'53 2°48'10 0.62416 AU	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8490 Apr 16 08:22 8490 Apr 29 20:21 8490 May 01 08:48 8490 May 05 21:21 8490 May 12 07:39 8490 May 15 09:33 8490 May 21 05:13 8490 May 21 06:35 8490 May 23 11:55 8490 May 25 11:31 8490 May 27 02:40	8°818'06 0°П 2°П10'13 7°П39'45 11°П07'37 10°П15'12 4°П46'35 4°П42'34 2°П07'14 30°R8 28°831'09	3°14'43 3°14'24

	8490 Jun 12 07:01	0° I I		inferior conj	8491 May 05 01:01	18° 8 10'41	3°22'57
morning max el	8490 Jun 16 10:50	3° Ⅱ 46'36	27°27'02	minimum elong	8491 May 05 01:04	18° 8 10'30	3°22'49
morning max or	8490 Jul 06 04:13	0°9	2, 2, 02	min. Earth dist.	8491 May 06 16:21	16° 8 06'05	0.66087 AU
morning set	8490 Jul 21 16:30	27°528'36		morning rise	8491 May 10 13:20	11° 8 52'17	
S	8490 Jul 22 23:06	$0^{\circ}\Omega$		direct	8491 May 16 22:27	9° 8 06'10	
max. Earth dist.	8490 Jul 26 09:52	7° Ω 01'02	1.33173 AU	desc. node	8491 May 22 21:37	11° 8 01'51	
asc. node	8490 Jul 28 08:05	11° Ω 02'43		morning max el	8491 May 29 21:29	16° 8 48'39	26°29'54
					8491 Jun 09 20:19	Π $^{\circ}0$	
superior conj	8490 Jul 29 19:35	14° Ω 10′59	0°14'55		8491 Jun 29 01:44	0 \circ \odot	
minimum elong	8490 Jul 29 18:50	14° Ω 07'03	0°14'38	morning set	8491 Jul 04 20:35	10° © 31'18	
behind sun begin	8490 Jul 29 16:36	13° Ω 55′09		max. Earth dist.	8491 Jul 08 22:14	18° 5 21'43	1.34634 AU
behind sun end	8490 Jul 29 21:04	14° Ω 18'58					
evening rise	8490 Aug 05 22:17	29° Ω 26′20		superior conj	8491 Jul 13 17:55	28° © 05'46	
	8490 Aug 06 04:38	0° m)		minimum elong	8491 Jul 13 18:45	28°9510'03	0°14'40
	8490 Aug 23 09:00	0∘ 亞	22027100	behind sun begin	8491 Jul 13 16:19	27°957'34	
evening max el desc. node	8490 Aug 27 12:31 8490 Aug 31 23:34	4° Ω 38'12 8° Ω 17'36	22°27'00	behind sun end	8491 Jul 13 21:10 8491 Jul 14 16:00	28° © 22'33 0° Ω	
retrograde	8490 Sep 09 12:24	11° £ 06'54		asc. node	8491 Jul 15 05:04	1° Ω 07'53	
evening set	8490 Sep 12 20:27	11 = 00 34 10° ⊆ 42'24		evening rise	8491 Jul 21 07:32	13° Ω 54'35	
min. Earth dist.	8490 Sep 20 19:12	7° ⊆ 12'17	0.54988 AU	evening rise	8491 Jul 29 13:05	0° m	
inferior conj	8490 Sep 21 19:17	6° £ 38'15		evening max el	8491 Aug 09 09:01	15° Mp 08'46	20°55'52
minimum elong	8490 Sep 21 12:23	6° £ 48'01	5°11'53	desc. node	8491 Aug 18 20:40	20° m 43'38	
morning rise	8490 Sep 30 06:09	2° £ 50'32		retrograde	8491 Aug 21 00:54	20° m 55'26	
direct	8490 Oct 03 12:08	2° ≏ 26'41		evening set	8491 Aug 23 06:06	20° m 43'44	
morning max el	8490 Oct 15 02:04	7° £ 52'37	21°14'51	inferior conj	8491 Sep 01 11:42	16° Mp 46'57	-3°55'16
asc. node	8490 Oct 24 07:45	19° ≏ 40′23		minimum elong	8491 Sep 01 02:12	17° Mp 00′25	3°52'30
	8490 Oct 30 03:27	0° M ₊		min. Earth dist.	8491 Sep 02 04:06	16°M 23'39	0.54689 AU
morning set	8490 Nov 04 01:37	9°M54'55		morning rise	8491 Sep 09 22:32	12° m 50'27	
				direct	8491 Sep 13 20:00	12° m 17'57	
superior conj	8490 Nov 11 08:44	25°M11'55	1°38'32	morning max el	8491 Sep 26 19:38	18°M 30'33	22°55'45
minimum elong	8490 Nov 11 09:55	25°M18'00	1°38'38		8491 Oct 06 04:17	0。 ⊽	
	8490 Nov 13 16:54	0° ∡		asc. node	8491 Oct 11 04:44	8° ≏ 17'31	
max. Earth dist.	8490 Nov 15 21:03	4° ₹ 21'44	1.35309 AU	morning set	8491 Oct 19 12:43	24° £ 44'08	
evening rise	8490 Nov 19 23:42	12° ₹ 18'59			8491 Oct 21 23:54	0°M₊	
desc. node	8490 Nov 27 22:23 8490 Nov 30 00:21	26° メ 31'28 0°る		aumorior comi	9401 Oct. 26, 12:46	00 m 45156	1°41'14
	8490 Nov 30 00.21 8490 Dec 21 11:18	0°≈		superior conj minimum elong	8491 Oct 26 12:46 8491 Oct 26 12:39	9°M45'56 9°M45'20	1°41'21
evening max el	8490 Dec 25 08:46	0 ≈ 4° ≈ 03'59	26°32'19	max. Earth dist.	8491 Oct 20 12:39 8491 Oct 29 14:53	16°M17'56	1.33715 AU
retrograde	8491 Jan 07 07:36	11°≈20'13	20 32 17	evening rise	8491 Nov 03 08:39	25°M55'46	1.55715710
evening set	8491 Jan 13 17:20	8°≈46'11		overmig rise	8491 Nov 05 10:56	0° ⊼	
min. Earth dist.	8491 Jan 17 19:59	4° ≈ 34'01	0.66349 AU	desc. node	8491 Nov 14 19:26	16° ∡ 741'53	
inferior conj	8491 Jan 19 14:55	2° ≈ 25'27	-0°13'28		8491 Nov 23 09:58	0° ට	
minimum elong	8491 Jan 19 15:17	2° ≈ 24'21	0°13'09	evening max el	8491 Dec 07 21:37	17° る 35'48	27°14'14
transit middle	8491 Jan 19 15:17	2° ≈ 24'21	0°13'09	retrograde	8491 Dec 21 08:23	24° る 56'50	
transit begin	8491 Jan 19 13:37	2° ≈ 29'22		evening set	8491 Dec 28 04:04	22° る 20'48	
transit end	8491 Jan 19 16:57	2° ≈ 19′21		min. Earth dist.	8492 Jan 01 01:09		0.64917 AU
asc. node	8491 Jan 20 07:02	1° ≈ 37'26		inferior conj	8492 Jan 03 07:47	16° る 12'24	
	8491 Jan 21 17:10	30°Rる		minimum elong	8492 Jan 03 10:07	16° පි 06'00	1°16'08
morning rise	8491 Jan 25 14:07	26° る 42'43		asc. node	8492 Jan 07 04:06	12°る22'21	
direct	8491 Jan 28 13:21	25° る 53'24	1002/100	morning rise	8492 Jan 09 17:38	10° る 42'44	
morning max el	8491 Feb 04 02:20	29°る24'23 0°≈	18°26'08	direct	8492 Jan 12 08:15 8492 Jan 18 18:32	10°පි06'58 13°පි30'01	17°58'17
desc. node	8491 Feb 04 16:21 8491 Feb 23 21:52	0 ≈ 28°≈10'47		morning max el	8492 Jan 30 10:50	0°≈	1/ 361/
morning set	8491 Feb 24 04:22	28°≈36'35		morning set	8492 Feb 05 09:59	0 ∞ 9°≈51'53	
morning set	8491 Feb 25 01:21	0° ∺		desc. node	8492 Feb 10 18:49	18° ≈ 43'41	
	5.51100 25 01.21	٠,٨		acco. node	8492 Feb 17 17:51	0°)	
superior conj	8491 Mar 12 00:11	23°) 33′59	-1°40'21				
minimum elong	8491 Mar 11 14:35	22° ∺ 56'23		superior conj	8492 Feb 19 11:14	2°) 45′03	-1°00'08
max. Earth dist.	8491 Mar 12 13:56	24°) €27'47	1.45535 AU	minimum elong	8492 Feb 19 04:20	2° 升 17'33	
	8491 Mar 16 02:51	$0^{\circ}\mathbf{\Upsilon}$		max. Earth dist.	8492 Feb 23 09:23	8° ¥ 57′23	1.45240 AU
evening rise	8491 Mar 27 20:48	18° Ƴ 27'20		evening rise	8492 Mar 06 14:19	27°) 55′31	
	8491 Apr 04 04:30	0°8			8492 Mar 07 22:41	0° Y	
greatest brilliancy	8491 Apr 06 14:35	3° 8 46'40	-0.8m	greatest brilliancy	8492 Mar 20 19:50	19° Ƴ 30'31	-0.6m
asc. node	8491 Apr 18 05:53	20° 8 06'12			8492 Mar 28 08:26	0°8	
evening max el	8491 Apr 19 07:32	21° 8 14'15	18°59'03	evening max el	8492 Apr 01 13:04	4° 8 52'10	19°50'16
retrograde	8491 Apr 26 02:52	25° 8 02'14		asc. node	8492 Apr 04 02:57	7° 8 10'35	
evening set	8491 Apr 29 12:18	23° 8 55'28		retrograde	8492 Apr 09 00:55	9° 8 10'56	

evening set	8492 Apr 12 18:40	7° 8 49'20		evening rise	8493 Feb 14 01:29	7° ¥ 16'15	
inferior conj	8492 Apr 18 03:26	1° 8 50'16	3°17'15	evening rise	8493 Mar 01 06:04	0° Υ	
minimum elong	8492 Apr 18 02:23	1° 8 53'50	3°17'04	evening max el	8493 Mar 15 13:10	18° Υ 31'35	20°55'18
min. Earth dist.	8492 Apr 19 04:07	0° 8 27'35	0.67309 AU	asc. node	8493 Mar 22 00:02	23° Υ '08'44	20 33 10
mm. Earth dist.	8492 Apr 19 12:26	30°RΥ	0.07307110	retrograde	8493 Mar 23 23:23	23° Υ 28'31	
morning rise	8492 Apr 23 09:47	25° Υ 32'29		evening set	8493 Mar 28 02:38	21° Υ 51'43	
direct	8492 Apr 29 07:51	22° Y 54'01		inferior conj	8493 Apr 02 09:56	15° Υ 40'31	3°00'06
desc. node	8492 May 08 18:36	27° Υ 40'42		minimum elong	8493 Apr 02 08:05	15° Υ 46'53	2°59'44
desc. Hode	8492 May 11 05:16	0°8		min. Earth dist.	8493 Apr 02 21:02	15° Υ '02'09	0.68089 AU
morning max el	8492 May 11 07:11	0° 8 04'51	25°12'08	morning rise	8493 Apr 07 13:20	9° Υ 25'34	0.00007 AC
morning max ci	8492 Jun 02 17:43	0°II	23 12 08	direct	8493 Apr 12 22:16	7° Υ '02'53	
morning set	8492 Jun 16 08:48	22° ∏ 46'59		morning max el	8493 Apr 23 16:12	13° Y 27'48	23°43'49
max. Earth dist.	8492 Jun 20 00:02	22 ∏ 40 39 29° ∏ 25'41	1.36528 AU	desc. node	8493 Apr 25 15:33	15° Υ 32'57	23 43 49
max. Earm dist.		29 п 2341 0° ©	1.30328 AU	desc. node			
	8492 Jun 20 07:23	0.50			8493 May 07 00:55	0°B 0°B	
	9402 I 26 06.50	119620116	0946120		8493 May 26 14:39		
superior conj	8492 Jun 26 06:50	11°930'16		morning set	8493 May 28 23:39	4° Ⅱ 00'09	1 20725 111
minimum elong	8492 Jun 26 09:40	11°5644'15	0°46'00	max. Earth dist.	8493 Jun 01 20:04	10° Ⅱ 40'37	1.38725 AU
asc. node	8492 Jul 01 02:03	21°508'41					
evening rise	8492 Jul 04 12:26	28°906'51		superior conj	8493 Jun 09 06:39	24° Ⅱ 14'34	
	8492 Jul 05 10:53	0 \circ Ω		minimum elong	8493 Jun 09 11:29	24° ∏ 37′20	1°17'29
evening max el	8492 Jul 21 18:49	26° Ω 21'44	19°42'32		8493 Jun 12 07:15	0 \circ	
	8492 Jul 26 15:18	O° My		asc. node	8493 Jun 17 23:02	11° © 00'18	
retrograde	8492 Jul 31 17:44	1°Mp16′32		evening rise	8493 Jun 18 10:11	11° © 54'43	
evening set	8492 Aug 02 14:09	1° Mp 07'05			8493 Jun 28 08:04	0 $^{\circ}\Omega$	
desc. node	8492 Aug 04 17:45	0° Mp 34′01		evening max el	8493 Jul 04 16:53	8° Ω 18'39	18°49'50
	8492 Aug 06 04:34	30° R Ω		retrograde	8493 Jul 13 01:55	12° Ω 27'45	
inferior conj	8492 Aug 11 11:00	27° Ω 04'29	-2°03'09	evening set	8493 Jul 15 01:38	12° Ω 14'36	
minimum elong	8492 Aug 11 05:23	27° Ω 13'14	2°01'08	desc. node	8493 Jul 22 14:50	8° Ω 19'20	
min. Earth dist.	8492 Aug 13 15:53	25° Ω 42'19	0.55354 AU	inferior conj	8493 Jul 23 04:15	7° Ω 55'15	-0°10'11
morning rise	8492 Aug 19 18:26	22° Ω 39'37		minimum elong	8493 Jul 23 03:50	7° Ω 56′01	0°10'10
direct	8492 Aug 24 10:49	21° Ω 50'58		transit middle	8493 Jul 23 03:50	7° Ω 56′01	0°10'10
morning max el	8492 Sep 07 08:08	28° Ω 45'34	24°41'28	transit begin	8493 Jul 23 00:57	8° Ω 01'12	
	8492 Sep 08 14:28	0° m		transit end	8493 Jul 23 06:42	7° Ω 50'49	
asc. node	8492 Sep 27 01:42	27° m 26'19		min. Earth dist.	8493 Jul 26 07:25	5° Ω 40'34	0.56855 AU
	8492 Sep 28 09:13	0∘ <u>⊽</u>		morning rise	8493 Jul 31 02:39	2° Ω 53'41	
morning set	8492 Oct 03 00:27	9° £ 32'56		direct	8493 Aug 05 15:23	1° Ω 39'53	
5 - 5				morning max el	8493 Aug 19 22:17	9° Ω 05'31	26°15'47
superior conj	8492 Oct 09 21:27	24° £ 31'34	1°37'37	<i>S</i>	8493 Sep 04 17:18	0° m)	
minimum elong	8492 Oct 09 20:15	24° £ 25'04	1°37'37	asc. node	8493 Sep 13 22:39	16° m) 57'51	
max. Earth dist.	8492 Oct 11 16:44		1.32565 AU	morning set	8493 Sep 17 11:10	24° m) 16'14	
max. Darm dist.	8492 Oct 12 09:53	0°M	1.52505 110	morning sec	8493 Sep 20 02:52	0∘ ت	
evening rise	8492 Oct 17 04:03	10°ML00'22			0475 Sep 20 02.52	٠ –	
evening rise	8492 Oct 27 18:50	0° √		superior conj	8493 Sep 24 08:36	9° ₽ 21'31	1°28'18
desc. node	8492 Oct 31 16:29	6° ∡ 728'42		minimum elong	8493 Sep 24 06:40	9° ₽ 10'52	1°28'07
desc. node	8492 Nov 18 14:46	0°る		max. Earth dist.	8493 Sep 25 00:30	10° ≏ 49'31	1.31871 AU
evening max el	8492 Nov 19 08:49		27°29'24	evening rise	8493 Oct 01 06:53	24° £ 24'11	1.516/1 AU
retrograde	8492 Dec 03 02:34	8° る 01'45	21 29 24	evening rise	8493 Oct 04 00:10	24 = 24 11 0° M	
evening set	8492 Dec 10 04:02	8 ප්ර143 5°ප්32'11		desc. node	8493 Oct 18 13:34	25°M42'19	
min. Earth dist.	8492 Dec 13 21:11	3 33211 2° 3 24'02	0.63167 AU	desc. Hode	8493 Oct 21 12:13	23 11 0 42 19 0° √ 1	
IIIII. Eartii tist.			0.03107 AU				27912120
	8492 Dec 16 07:36	30°₹ ₹	2027110	evening max el	8493 Nov 01 15:58		27°12'30
inferior conj	8492 Dec 16 14:45	29° 🖈 42'14		retrograde	8493 Nov 15 12:54	20°×726'00	
minimum elong	8492 Dec 16 19:23	29° 🖈 30'45	2°24'18	evening set	8493 Nov 22 13:43	18° 🗷 13'00	0.61170.411
morning rise	8492 Dec 23 12:45	24° 🖈 28'27		min. Earth dist.	8493 Nov 26 06:41	15°×728'01	0.61179 AU
asc. node	8492 Dec 24 01:09	24° ∡ 18'19		inferior conj	8493 Nov 29 08:39	12° ∡ ¹46'54	
direct	8492 Dec 25 21:05	24° × 02'19		minimum elong	8493 Nov 29 15:22	12° ⋌ 32'13	3°34'15
morning max el	8493 Jan 01 11:54		17°47'48	morning rise	8493 Dec 06 19:20	7° ∡ 52′20	
	8493 Jan 03 18:42	0°る		direct	8493 Dec 09 00:25	7° ∡ ³32'09	
morning set	8493 Jan 17 17:07	22° පි 20'54		asc. node	8493 Dec 10 22:11	7° ∡ ¹47'42	
_	8493 Jan 22 02:59	0° ≈		morning max el	8493 Dec 16 03:12	11° ∡ ′06'48	17°55'39
desc. node	8493 Jan 27 15:45	9° ≈ 24'00			8493 Dec 28 15:39	0°ಕ	
				morning set	8493 Dec 31 19:13	5° る 43'45	
superior conj	8493 Jan 29 19:16	12° ≈ 58′22					
minimum elong	8493 Jan 29 17:38	12° ≈ 51'36	0°15'18	superior conj	8494 Jan 11 04:57	24° る 25'18	0°24'32
behind sun begin	8493 Jan 29 14:44	12° ≈ 39'37		minimum elong	8494 Jan 11 07:00	24° る 34'12	0°24'24
behind sun end	8493 Jan 29 20:31	13° ≈ 03'35			8494 Jan 14 10:46	0° ≈	
max. Earth dist.	8493 Feb 05 02:58		1.44241 AU	desc. node	8494 Jan 14 12:43	0° ≈ 08'18	
	8493 Feb 09 09:11	0° ∀		max. Earth dist.	8494 Jan 18 16:58	7° ≈ 07'34	1.42652 AU

	0404 1 24 21 42	17007107		1 1	0405 1 01 00 41	200752127	
evening rise	8494 Jan 24 21:43	17°≈07'07		desc. node	8495 Jan 01 09:41	20°る52'37	
	8494 Feb 02 06:33	0°) €		evening rise	8495 Jan 05 13:01	27° る 49'51	
	8494 Feb 24 06:12	0°Υ			8495 Jan 06 20:46	0° ≈	
evening max el	8494 Feb 26 08:10	2° Y 13'02	22°10'18		8495 Jan 26 21:07	0° ∀	
retrograde	8494 Mar 07 20:33	7° Ƴ 51'18		evening max el	8495 Feb 08 23:19	15° ¥ 56′29	23°30'12
asc. node	8494 Mar 08 21:08	7° Ƴ 45'59		retrograde	8495 Feb 19 15:01	22°) (14′09	
evening set	8494 Mar 12 10:33	5° Y 59′12		asc. node	8495 Feb 23 18:15	20° 升 50′49	
inferior conj	8494 Mar 17 18:24	29° ∺ 38'28	2°33'04	evening set	8495 Feb 24 16:52	20° ∺ 07'20	
minimum elong	8494 Mar 17 16:11	29°) 46′13	2°32'31	min. Earth dist.	8495 Mar 01 13:37	14°) €26'07	0.68349 AU
min. Earth dist.	8494 Mar 17 16:56	29°) 43'36	0.68431 AU	inferior conj	8495 Mar 02 02:56	13°) 40′26	1°57'05
	8494 Mar 17 12:13	30° ₹ ₩		minimum elong	8495 Mar 02 00:46	13°) 47′52	1°56'26
morning rise	8494 Mar 22 21:39	23°) €27'51		morning rise	8495 Mar 07 08:39	7°) €35'24	
direct	8494 Mar 27 16:38	21° H 25'55		direct	8495 Mar 11 13:50	5° ¥ 55'59	
morning max el	8494 Apr 06 03:29	26°) 58'47	22°14'51	morning max el	8495 Mar 19 20:34		20°53'06
morning max ci	8494 Apr 08 22:49	20 γ (30 γ /	22 1431	desc. node	8495 Mar 30 09:26	23°) (42'23	20 33 00
desc. node	8494 Apr 12 12:30	4° Υ 18'33		desc. node	8495 Apr 03 19:47	25 γ (42 25	
desc. Hode	-			morning sat	•	22° Y 47'57	
	8494 Apr 30 14:50	0°8		morning set	8495 Apr 18 22:33		
morning set	8494 May 09 12:11	13° 8 59'15			8495 Apr 23 12:04	0°8	
max. Earth dist.	8494 May 14 18:16	22° 8 39'48	1.40970 AU	max. Earth dist.	8495 Apr 26 23:00	5° 8 33'44	1.42969 AU
	8494 May 19 01:13	$\Pi^{\circ}0$					
				superior conj	8495 May 03 21:20	17° 8 02'35	
superior conj	8494 May 22 13:03	6° Ⅱ 08'56	-1°46'18	minimum elong	8495 May 04 01:35	17° 8 20'35	2°06'11
minimum elong	8494 May 22 18:56	6° Ⅲ 35′12	1°45'52		8495 May 11 09:27	Π $^{\circ}0$	
evening rise	8494 Jun 01 21:27	25° Ⅲ 10′18		evening rise	8495 May 15 17:58	7° Ⅱ 43'12	
	8494 Jun 04 11:40	0°ಅ		asc. node	8495 May 22 17:06	19° ∏ 58′28	
asc. node	8494 Jun 04 20:03	0°538'42			8495 May 29 03:49	0°€	
evening max el	8494 Jun 17 23:44	20° © 52'39	18°17'42	evening max el	8495 Jun 01 11:35	3°954'10	18°05'23
retrograde	8494 Jun 25 05:32	24°930'45	10 17 .2	retrograde	8495 Jun 08 01:50	7°917'10	10 00 25
evening set	8494 Jun 27 12:19	24°909'52		evening set	8495 Jun 10 16:06	6°945'36	
•	8494 Jul 04 19:17	19° 5 29'48	1°20'58	inferior conj	8495 Jun 17 06:13	1°945'31	2°24'12
inferior conj				-			2°23'14
minimum elong	8494 Jul 04 21:46	19°524'31	1°19'57	minimum elong	8495 Jun 17 09:12	1°938'13	2-23-14
min. Earth dist.	8494 Jul 08 04:39	16°539'04	0.58898 AU		8495 Jun 19 01:09	30°RⅡ	
desc. node	8494 Jul 09 11:54	15° © 38'53		min. Earth dist.	8495 Jun 20 09:56	28° Ⅱ 41'40	0.61141 AU
morning rise	8494 Jul 12 04:01	13° © 54'49		morning rise	8495 Jun 23 23:56	25° Ⅱ 46'59	
direct	8494 Jul 18 09:32	12°©10'17		desc. node	8495 Jun 26 08:57	24° Ⅱ 27'59	
morning max el	8494 Aug 01 18:38	19° © 56'52	27°23'09	direct	8495 Jun 30 15:30	23° Ⅲ 32'41	
	8494 Aug 10 09:01	$0 {\circ} \Omega$			8495 Jul 13 07:18	0 \circ \odot	
	8494 Aug 28 11:24	O° Mp		morning max el	8495 Jul 14 21:55	1° © 32'17	27°54'09
asc. node	8494 Aug 31 19:35	6° Mp 45'41			8495 Aug 04 15:46	$0 ^{\circ} \Omega$	
morning set	8494 Sep 01 19:16	8° Mp 49'26		morning set	8495 Aug 16 22:54	23° Ω 07'20	
Č	1			asc. node	8495 Aug 18 16:33	26° Ω 44'31	
superior conj	8494 Sep 08 20:23	24° m 10'07	1°13'45		8495 Aug 20 05:20	0° m/y	
minimum elong	8494 Sep 08 18:08	23° m 57'40	1°13'23	max. Earth dist.	8495 Aug 22 19:35	5° Mp 37'14	1.31850 AU
max. Earth dist.	8494 Sep 08 10:44	23° Mp 16'34	1.31632 AU	max. Latin dist.	0473 Aug 22 17.33	3 III 3/14	1.51650 AC
max. Earm dist.	-	0° ي 0° ي	1.31032 AU	gumariar agni	9405 Aug 24 07:02	8° m 51'54	0°54'20
	8494 Sep 11 11:29			superior conj	8495 Aug 24 07:02		
evening rise	8494 Sep 15 14:43	9° ₾ 00'03		minimum elong	8495 Aug 24 04:57	8° Mp 40'26	0°53'53
	8494 Sep 26 09:10	0°M		evening rise	8495 Aug 31 01:27	23° m/41'48	
desc. node	8494 Oct 05 10:40	14°M09'23			8495 Sep 03 01:24	0∘ ত	
evening max el	8494 Oct 14 16:09	24°M56'39	26°21'34		8495 Sep 21 01:23	0°M₊	
	8494 Oct 21 09:03	0°⊀		desc. node	8495 Sep 22 07:46	1°MJ31'39	
retrograde	8494 Oct 28 14:08	2° ≯ 02'01		evening max el	8495 Sep 26 08:12	5° M 48'43	25°01'17
evening set	8494 Nov 04 04:35	0° ∡ 15'46		retrograde	8495 Oct 10 04:54	12°M48'02	
	8494 Nov 04 16:19	30°RML		evening set	8495 Oct 15 20:07	11°MJ36'09	
min. Earth dist.	8494 Nov 08 05:25	27°M41'16	0.59090 AU	min. Earth dist.	8495 Oct 20 19:38	8°M53'51	0.57117 AU
inferior conj	8494 Nov 11 09:56	25°M16'17		inferior conj	8495 Oct 23 15:37	7° M 01'46	
minimum elong	8494 Nov 11 17:11	25°M02'29		minimum elong	8495 Oct 23 19:54	6°M54'40	
morning rise	8494 Nov 19 08:07	20°M44'02	• •	morning rise	8495 Oct 31 21:59	2°M52'24	
direct	8494 Nov 21 13:56	20°M26'37		direct	8495 Nov 03 09:17	2°M34'53	
asc. node	8494 Nov 27 19:13	20 IIC2037 22°IIC49'21		morning max el	8495 Nov 12 13:36	6°M56'58	19°12'24
			10072110	· ·			17 14 44
morning max el	8494 Nov 29 12:58	24°M20'02	10 23 18	asc. node	8495 Nov 14 16:14	9°M10'57	
	8494 Dec 04 04:49	0° ∡ ¹		_	8495 Nov 27 09:02	0° ∡ 7	
morning set	8494 Dec 15 10:34	19° ∡ 42'57		morning set	8495 Nov 29 11:01	4° ≯ 06'36	
	8494 Dec 20 19:57	0°₹					
				superior conj	8495 Dec 07 15:36	20° х 19′15	1°19'26
superior conj	8494 Dec 24 13:24	6° る 56'56	0°56'32	minimum elong	8495 Dec 07 18:38	20° ∡ 33'55	1°19'18
minimum elong	8494 Dec 24 16:45	7° る 12'19	0°56'16		8495 Dec 12 18:34	0°₹	
max. Earth dist.	8495 Jan 01 02:13	20° る 20'33	1.40652 AU	max. Earth dist.	8495 Dec 14 07:59	2° る 50'41	1.38483 AU

evening rise	8495 Dec 18 02:18	9° ප 31'06		evening rise	8496 Nov 29 11:34	22° ₹ 05'10	
desc. node	8495 Dec 19 06:42	11° る 33'38		Č	8496 Dec 03 22:12	0° ට	
	8495 Dec 30 16:50	0°≈		desc. node	8496 Dec 05 03:44	2° る 06'54	
evening max el	8496 Jan 22 12:36	29° ≈ 42'43	24°48'43		8496 Dec 23 12:48	0° ≈	
	8496 Jan 22 19:39	0°) €		evening max el	8497 Jan 04 01:42	13° ≈ 29'51	25°58'51
retrograde	8496 Feb 03 05:44	6°) 32′17		retrograde	8497 Jan 16 15:38	20° ≈ 39'59	
evening set	8496 Feb 08 20:03	4° 升 12′25		evening set	8497 Jan 22 18:25	18°≈10′04	
asc. node	8496 Feb 10 15:22	2° ∺ 26'32		min. Earth dist.	8497 Jan 27 00:37	13° ≈ 37'45	0.67003 AU
	8496 Feb 12 16:11	30° R ≈		asc. node	8497 Jan 27 12:28	13° ≈ 00′56	
min. Earth dist.	8496 Feb 13 08:55	29° ≈ 05'35	0.67867 AU	inferior conj	8497 Jan 28 12:49	11° ≈ 44'36	0°20'11
inferior conj	8496 Feb 14 09:42	27° ≈ 43'36	1°12'39	minimum elong	8497 Jan 28 12:18	11° ≈ 46′14	0°20'07
minimum elong	8496 Feb 14 08:06	27° ≈ 48'57	1°12'08	morning rise	8497 Feb 03 06:47	5° ≈ 55'25	
morning rise	8496 Feb 19 20:22	21° ≈ 45'34		direct	8497 Feb 06 11:43	4° ≈ 56'43	
direct	8496 Feb 23 12:42	20° ≈ 27'48		morning max el	8497 Feb 13 05:46	8° ≈ 37'35	18°49'42
morning max el	8496 Mar 01 21:24	24° ≈ 34'33	19°43'45		8497 Feb 28 16:59	0° ∀	
	8496 Mar 06 14:39	0° ∀		desc. node	8497 Mar 03 03:18	3°) 46′20	
greatest brilliancy	8496 Mar 14 15:36	11° ∺ 11'06	-0.6m	morning set	8497 Mar 07 05:05	10°) €07'42	
desc. node	8496 Mar 16 06:22	13°) 34′06			8497 Mar 19 22:15	0° Υ	
	8496 Mar 27 02:35	0° Υ		max. Earth dist.	8497 Mar 22 03:04	3° Y 26'52	1.45357 AU
morning set	8496 Mar 27 20:03	1° Y 07'16					
max. Earth dist.	8496 Apr 08 10:26	19° Ƴ 14'00	1.44485 AU	superior conj	8497 Mar 23 15:53	5° Y 51′18	
				minimum elong	8497 Mar 23 07:49	5° Y 19'39	1°56'57
superior conj	8496 Apr 13 04:50	26° Y 51'34		evening rise	8497 Apr 07 20:48	0° 8 03'39	
minimum elong	8496 Apr 13 03:27	26° Y 45′59	2°11'44		8497 Apr 07 19:54	0°8	
	8496 Apr 15 03:21	0°8		asc. node	8497 Apr 25 11:17	27° 8 13'15	
evening rise	8496 Apr 26 18:59	19° 8 22'50			8497 Apr 27 19:36	Π °0	
	8496 May 03 01:49	$\Pi^{\circ}0$		evening max el	8497 Apr 28 13:08	0° Ⅱ 45'41	18°37'00
asc. node	8496 May 08 14:11	8° Ⅱ 52'41		retrograde	8497 May 05 02:20	4° Ⅱ 20′36	
evening max el	8496 May 15 01:01	17° Ⅱ 14'13	18°12'05	evening set	8497 May 08 07:21	3° Ⅱ 22'16	
retrograde	8496 May 21 10:10	20° Ⅱ 36′32			8497 May 12 02:25	30° ₹ 8	
evening set	8496 May 24 07:45	19° Ⅱ 52'15		inferior conj	8497 May 13 23:40	27° 8 46'54	3°20'05
inferior conj	8496 May 30 09:02	14° ∏ 33'49	3°02'16	minimum elong	8497 May 14 00:28	27° 8 44'26	3°19'52
minimum elong	8496 May 30 11:09	14° Ⅱ 27'58	3°01'44	min. Earth dist.	8497 May 15 23:57	25° 8 20'46	0.65185 AU
min. Earth dist.	8496 Jun 02 00:23	11° Ⅱ 39'50	0.63305 AU	morning rise	8497 May 19 16:51	21° 8 29'41	
morning rise	8496 Jun 05 13:07	8° Ⅲ 22'08		direct	8497 May 26 06:55	18° 8 43'29	
direct	8496 Jun 12 07:18	5° ∏ 45'55		desc. node	8497 May 30 03:00	19° 8 31'31	
desc. node	8496 Jun 12 06:00	5° Ⅱ 45'56		morning max el	8497 Jun 08 16:14	26° 8 37'20	27°05'51
morning max el	8496 Jun 26 06:02	13° ∏ 48′58	27°46'56		8497 Jun 11 19:34	0°Щ	
	8496 Jul 09 06:53	0°©			8497 Jul 02 21:40	0°©	
	8496 Jul 27 05:19	0° Ω		morning set	8497 Jul 14 06:55	20°527'09	
morning set	8496 Jul 30 19:43	7° Ω 02'24		max. Earth dist.	8497 Jul 18 17:08	29° © 13'18	1.33735 AU
asc. node	8496 Aug 04 13:31	16° Ω 48'57			8497 Jul 19 02:19	0°N	
max. Earth dist.	8496 Aug 04 22:52	17° Ω 38′28	1.32546 AU	asc. node	8497 Jul 22 10:30	6° Ω 55'14	
	0406 4 07 14 27	220 020110	0020120		0407 1 1 22 17 04	70 000140	0000146
superior conj	8496 Aug 07 14:37	23° Ω 20'18		superior conj	8497 Jul 22 17:04	7° Ω 29'42	
minimum elong	8496 Aug 07 13:14	23° Ω 12'47	0°30'05	minimum elong	8497 Jul 22 16:55	7° Ω 28'59	0°02'35
	8496 Aug 10 16:09	0°M)		behind sun begin	8497 Jul 22 11:22	6° Ω 59'46	
evening rise	8496 Aug 14 13:06	8° m 22'34		behind sun end	8497 Jul 22 22:29	7° Ω 58'15	
	8496 Aug 25 17:19	0∘ ⊽	22024104	evening rise	8497 Jul 29 23:49	22° Ω 57'18	
evening max el	8496 Sep 06 19:30	16° Ω 06'05	23°24'04		8497 Aug 02 09:42	0°M)	21°46'31
desc. node	8496 Sep 08 04:54	17° Ω 23'14		evening max el	8497 Aug 19 10:24	26° Mp 22'40	21 40 31
retrograde	8496 Sep 20 07:26	22° £ 50'59 22° £ 12'41		daga mada	8497 Aug 23 21:12	0° ჲ 1° ჲ 13'17	
evening set	8496 Sep 24 11:54		O FFF(F ATT	desc. node	8497 Aug 26 01:59		
min. Earth dist.	8496 Oct 01 05:14	19° Ω 04'03	0.55565 AU	retrograde	8497 Aug 31 22:26	2° Ω 34'57	
inferior conj	8496 Oct 03 01:19	17° £ 59'09		evening set	8497 Sep 03 16:55	2° £ 17'42	
minimum elong morning rise	8496 Oct 02 22:35 8496 Oct 11 11:22	18° ≙ 03'11 14° ≙ 06'55	3 3440	inferior conj	8497 Sep 09 18:06 8497 Sep 12 20:36	30°R Mp 28° Mp 18'34	1016106
direct	8496 Oct 11 11:22 8496 Oct 14 09:13	13° £ 46'21			8497 Sep 12 20:36 8497 Sep 12 11:40	28° m) 31'03	
			20022150	minimum elong min. Earth dist.	8497 Sep 12 11:40 8497 Sep 12 13:38		
morning max el	8496 Oct 25 01:54	18° ♀ 47'22 26° ♀ 36'05	20°23'59			28° Mp 28'19	0.54751 AU
asc. node	8496 Oct 31 13:15 8496 Nov 02 18:06	26° ± 236°05 0° M		morning rise direct	8497 Sep 21 07:36 8497 Sep 24 19:58	24° mp 29'22 24° mp 02'18	
morning set		18°M45'16			8497 Sep 24 19:58 8497 Oct 07 01:14	-	21°56'06
morning set	8496 Nov 12 17:23 8496 Nov 18 04:12	18°11645°16 0° √ 7		morning max el	8497 Oct 07 01:14 8497 Oct 07 06:06	29° ™ 48'34 0° ₽	21 3000
	07/0 NOV 10 U4.12	· ×		asc. node	8497 Oct 17 00:06 8497 Oct 18 10:13	0 ♣ 14°♣50'30	
superior conj	8496 Nov 20 06:44	4° √ 17'49	1°33'47	asc. nouc	8497 Oct 18 10:13 8497 Oct 26 10:27	0°M	
minimum elong	8496 Nov 20 08:40	4°×17'49 4°×727'36	1°33'50	morning set	8497 Oct 28 03:19	3°M32'17	
max. Earth dist.	8496 Nov 25 14:50		1.36394 AU	morning set	0777 OCC 20 U3.19	J 110J41/	
man. Durur Ulst.	31701101 23 17.30	1. 7 30 20	1.50577 110				

	040731 04 06 55	100 M 411 27	1040120		0400 0 4 10 12 12	20 m 21122	1040126
superior conj	8497 Nov 04 06:55	18°M41'27	1°40'30	superior conj	8498 Oct 19 13:13	3°M21'33	
minimum elong	8497 Nov 04 07:32	18°M44'40	1°40'37	minimum elong	8498 Oct 19 12:37	3°M18'17	1°40'31
max. Earth dist.	8497 Nov 08 04:06	26°M43'33	1.34587 AU	max. Earth dist.	8498 Oct 22 01:51	8°M46'51	1.33176 AU
	8497 Nov 09 19:10	0° ∡ ¹		evening rise	8498 Oct 27 02:50	19° ™ 12'26	
evening rise	8497 Nov 12 13:00	5° ∡ ¹22'14			8498 Nov 01 17:27	0° ∡ ¹	
desc. node	8497 Nov 22 00:46	22° ∡ ¹27'30		desc. node	8498 Nov 08 21:49	12° ∡ ¹29'23	
	8497 Nov 26 16:13	0°రె			8498 Nov 20 19:49	8°0	
evening max el	8497 Dec 17 15:07	27° ට 11'06	26°53'07	evening max el	8498 Nov 30 03:43	10°る35'22	27°24'19
	8497 Dec 20 19:26	0° ≈		retrograde	8498 Dec 13 17:37	17° る 54'57	
retrograde	8497 Dec 30 19:50	4°≈30'06		evening set	8498 Dec 20 16:30	15° ට 20'41	
•				•		13 3 2041 11° 3 55'44	0.64213 AU
evening set	8498 Jan 06 10:00	1°≈54'44		min. Earth dist.	8498 Dec 24 11:45		
	8498 Jan 08 12:37	30°Rる		inferior conj	8498 Dec 26 23:09	9°る19'44	
min. Earth dist.	8498 Jan 10 10:18	27° る 56'49	0.65778 AU	minimum elong	8498 Dec 27 02:26	9° る 11'04	1°44'32
inferior conj	8498 Jan 12 10:07	25° ⋜ 38'28	-0°39'48	asc. node	8499 Jan 01 06:35	4° る 36'42	
minimum elong	8498 Jan 12 11:15	25° ට 35'11	0°39'08	morning rise	8499 Jan 02 14:00	3° る 56'18	
asc. node	8498 Jan 14 09:33	23° る 25'18		direct	8499 Jan 05 01:45	3° る 24'58	
morning rise	8498 Jan 18 13:35	20° පි 00'40		morning max el	8499 Jan 11 12:53	6° ප 47'16	17°51'40
direct	8498 Jan 21 08:55	19° ට 17'30			8499 Jan 27 01:20	0° ≈	
morning max el	8498 Jan 27 19:49	22°₹43'59	18°12'08	morning set	8499 Jan 28 11:05	2° ≈ 22'59	
Z .	8498 Feb 02 16:14	0° ≈		desc. node	8499 Feb 04 21:11	14° ≈ 49'57	
morning set	8498 Feb 15 17:46	20° ≈ 33'03					
desc. node	8498 Feb 18 00:14	24°≈13'00		superior conj	8499 Feb 10 15:53	24°≈16'45	0041110
desc. node		0° \					
	8498 Feb 21 14:35	0°π		minimum elong	8499 Feb 10 11:14	23°≈57'57	0°40'24
					8499 Feb 14 05:34	0°) (25)(2	
superior conj	8498 Mar 02 21:10	14° ¥ 42'17		max. Earth dist.	8499 Feb 15 18:19	2° ∺ 25'49	1.44903 AU
minimum elong	8498 Mar 02 12:00	14° ∺ 06'17	1°23'24	evening rise	8499 Feb 26 13:06	19° 光 12′50	
max. Earth dist.	8498 Mar 04 22:43	17° ¥ 56'40	1.45500 AU		8499 Mar 05 15:10	0 ° Υ	
	8498 Mar 12 16:02	0 ° Υ		evening max el	8499 Mar 26 00:50	28° Y 00'43	20°16'23
evening rise	8498 Mar 19 00:02	9° Ƴ 51'49			8499 Mar 28 04:22	0°B	
greatest brilliancy	8498 Mar 30 20:38	28° Ƴ 11'48	-0.7m	asc. node	8499 Mar 30 05:27	1° 8 27'02	
	8498 Apr 01 01:22	8°		retrograde	8499 Apr 02 21:23	2° 8 34'48	
evening max el	8498 Apr 11 21:35	14° 8 22'11	19°19'02	evening set	8499 Apr 06 19:08	1° 8 06'30	
asc. node	8498 Apr 12 08:22	14° 8 48'57		Ü	8499 Apr 08 01:39	30° ₹ Υ	
retrograde	8498 Apr 18 22:56	18° 8 21'40		inferior conj	8499 Apr 12 02:59	25°Υ01'51	3°11'15
evening set	8498 Apr 22 11:53	17° 8 08'32		minimum elong	8499 Apr 12 01:33	25°Υ06'44	3°10'59
inferior conj	8498 Apr 27 22:34	11° 8 17'37	3°22'01	min. Earth dist.	8499 Apr 12 21:39	23° Y 58'17	0.67700 AU
	•				•	18° Υ 45'14	0.07700 AU
minimum elong	8498 Apr 27 22:07	11° 8 19'05	3°21'54	morning rise	8499 Apr 17 07:45		
min. Earth dist.	8498 Apr 29 07:34	9° 8 30'21	0.66664 AU	direct	8499 Apr 23 00:21	16° Y 12'58	
morning rise	8498 May 03 08:00	4° 8 59'25		desc. node	8499 May 03 20:59	22° Y 28'31	
direct	8498 May 09 12:54	2° 8 15'22		morning max el	8499 May 04 11:38	23° Y 05′04	24°35'16
desc. node	8498 May 16 23:59	5° 8 15'39			8499 May 10 14:06	$8^{\circ 0}$	
morning max el	8498 May 22 02:20	9° 8 45'32	25°58'46		8499 May 31 10:00	Π $\circ 0$	
	8498 Jun 07 01:31	Π $^{\circ}0$		morning set	8499 Jun 09 08:32	15° Ⅱ 01'07	
	8498 Jun 25 11:01	0 \circ \odot		max. Earth dist.	8499 Jun 12 23:33	21° Ⅱ 29'51	1.37442 AU
morning set	8498 Jun 27 04:47	3°910'50			8499 Jun 17 13:14	0 \circ \mathfrak{S}	
max. Earth dist.	8498 Jul 01 00:40	10°524'03	1.35396 AU				
				superior conj	8499 Jun 19 19:33	4° © 20'39	-0°59'56
superior conj	8498 Jul 06 11:46	21°9512'33	-0°27'55	minimum elong	8499 Jun 19 23:16	4°938'41	
minimum elong	8498 Jul 06 13:24	21°520'52		asc. node	8499 Jun 26 04:28	16°956'20	
asc. node	8498 Jul 09 07:29	26°959'02	V 27 .7	evening rise	8499 Jun 28 09:41	21°S22'16	
asc. node	8498 Jul 10 18:30	0°Ω		evening rise	8499 Jul 02 19:33	0°Ω	
							10017120
evening rise	8498 Jul 14 07:29	7° Ω 19'29		evening max el	8499 Jul 15 03:36	18° Ω 41'13	19-17-30
	8498 Jul 26 17:02	0° m)		retrograde	8499 Jul 24 09:31	23° Ω 15'37	
evening max el	8498 Aug 01 12:23	7° m 09'53	20°22'12	evening set	8499 Jul 26 06:23	23° Ω 05'11	
retrograde	8498 Aug 12 10:47	12° m) 34'15		desc. node	8499 Jul 30 20:09	21° Ω 22'57	
desc. node	8498 Aug 12 23:03	12° m 33'35		inferior conj	8499 Aug 03 20:02	18° Ω 55'56	-1°13'34
evening set	8498 Aug 14 10:30	12° m 24'18		minimum elong	8499 Aug 03 16:46	19° Ω 01′20	1°12'25
inferior conj	8498 Aug 23 14:06	8° m 26'44	-3°09'55	min. Earth dist.	8499 Aug 06 12:12	17° Ω 10′19	0.55900 AU
minimum elong	8498 Aug 23 05:42	8° m 38'59	3°07'08	morning rise	8499 Aug 12 00:21	14° Ω 15'48	
min. Earth dist.	8498 Aug 24 23:14	7° m 38'24	0.54863 AU	direct	8499 Aug 17 01:15	13° Ω 17'49	
morning rise	8498 Sep 01 00:08	4° m/20'31		morning max el	8499 Aug 31 04:06	20° Ω 26'38	25°24'10
direct	8498 Sep 05 05:33	3° m/ 42'07		Č	8499 Sep 08 09:17	0° m/y	
morning max el	8498 Sep 18 15:33	10° m) 12'54	23°41'00	asc. node	8499 Sep 22 04:06	23° m 02'05	
ig max vi	8498 Oct 03 05:45	0° ⊡	25 .100	u.c. 11040	8499 Sep 25 14:26	ე° ი	
asc. node	8498 Oct 05 07:10	ა <u>=</u> 3° ჲ 42'33		morning set	8499 Sep 27 02:26	0 == 3° ჲ 10'00	
		3 ≗ 42 33 18° £ 22'28		morning set	0777 Dep 27 02.20	J = 10 00	
morning set	8498 Oct 12 14:55	0°ML		gungrier ee	8499 Oct 03 23:11	18° ഫ 10'00	102/120
	8498 Oct 18 00:03	O IIG		superior conj	0 4 77 OCL U3 23.11	10 == 10 00	1 34 40

minimum elong	8499 Oct 03 21:38	18° ≏ 01'29	1°34'16	morning set	8500 Sep 11 12:17	17° m 50'08	
max. Earth dist.	8499 Oct 05 06:41	21° ≙ 03'07	1.32211 AU		8500 Sep 17 02:18	0∘ ⊽	
	8499 Oct 09 10:16	0°M				_	
evening rise	8499 Oct 11 01:42	3°M26'09		superior conj	8500 Sep 18 10:51	3° ₾ 00'38	1°22'44
	8499 Oct 25 11:41	0° ⊀ ⁷		minimum elong	8500 Sep 18 08:44	2° £ 48'55	1°22'29
desc. node evening max el	8499 Oct 26 18:52 8499 Nov 12 13:20	2° х 03'49 23° х 28'33	27°26'14	max. Earth dist. evening rise	8500 Sep 18 15:51 8500 Sep 25 06:56	3° £ 28′20 17° £ 56′06	1.31707 AU
evening max er	8499 Nov 12 13:20 8499 Nov 22 06:12	23 x 28 33	27 20 14	evening rise	8500 Sep 23 00:30 8500 Oct 01 06:08	0°M	
retrograde	8499 Nov 26 08:30	0°る44'13		desc. node	8500 Oct 13 15:57	20°M59'52	
	8499 Nov 30 06:58	30°R. ✓			8500 Oct 20 10:45	0° ∡ 7	
evening set	8499 Dec 03 10:53	28° ₹ 20'04		evening max el	8500 Oct 25 17:37	5° ∡ ³39'20	26°54'49
min. Earth dist.	8499 Dec 07 03:11	25° ₹ 23'18	0.62350 AU	retrograde	8500 Nov 08 15:31	12° ₹ 49'02	
inferior conj	8499 Dec 10 00:56	22° ₹ 39'53	-2°56'16	evening set	8500 Nov 15 13:13	10° ∡ °45′58	
minimum elong	8499 Dec 10 06:33	22° ₹ 26'42	2°54'01	min. Earth dist.	8500 Nov 19 08:02	8° ∡ °07'23	0.60293 AU
morning rise	8499 Dec 17 04:24	17° ∡ ³34'11		inferior conj	8500 Nov 22 12:11	5° ₹ 30'44	
direct	8499 Dec 19 11:00	17° ₹ 10'59		minimum elong	8500 Nov 22 19:26	5° ₹ 15'48	4°02'59
asc. node	8499 Dec 19 03:37 8499 Dec 26 05:51	17° ₹ 11'25 20° ₹ 38'27	17°48'52	morning rise direct	8500 Nov 30 04:05 8500 Dec 02 08:47	0° ₹ 45'36 0° ₹ 27'07	
morning max el	8500 Jan 02 06:21	20 x・3827	17 46 32	asc. node	8500 Dec 02 08.47 8500 Dec 06 00:40	1°×721'06	
morning set	8500 Jan 11 03:02	00 15° る 17'10		morning max el	8500 Dec 00 00:40		18°04'52
morning sec	8500 Jan 19 12:02	0°≈		morning set	8500 Dec 25 11:20	28° ₹ 56'56	10 0.02
				Ü	8500 Dec 26 00:51	8°0	
superior conj	8500 Jan 22 10:54	5° ≈ 02'02	0°02'14				
minimum elong	8500 Jan 22 11:08	5° ≈ 03'01	0°02'22	superior conj	8501 Jan 04 06:49	16° る 58'12	0°39'12
behind sun begin	8500 Jan 22 02:20	4° ≈ 25'49		minimum elong	8501 Jan 04 09:41	17° る 10'55	0°38'58
behind sun end	8500 Jan 22 19:56	5° ≈ 40'08		desc. node	8501 Jan 09 15:04	26° る 17'16	
desc. node	8500 Jan 22 18:09	5°≈32'41	1 42/20 411	n d.E.	8501 Jan 11 19:47	0° ≈	1 41020 477
max. Earth dist.	8500 Jan 29 10:36 8500 Feb 06 02:22	16°≈34'46 28°≈42'10	1.43629 AU	max. Earth dist.	8501 Jan 11 22:00 8501 Jan 17 05:50	0°≈09'17 8°≈53'07	1.41838 AU
evening rise	8500 Feb 06 02.22 8500 Feb 06 22:28	28 ≈ 42 10 0°)		evening rise	8501 Jan 31 01:07	0° ∺	
	8500 Feb 27 09:09	0°Υ		evening max el	8501 Feb 19 15:35	25°)(22'20	22°44'07
evening max el	8500 Mar 08 22:31	11° Υ 40'27	21°26'12	evening max or	8501 Feb 25 08:28	0°Υ	22 1107
asc. node	8500 Mar 17 02:32	16° Ƴ 52'46		retrograde	8501 Mar 01 15:56	1° Y 18'33	
retrograde	8500 Mar 17 19:39	16° Ƴ 55′21		asc. node	8501 Mar 03 23:39	0° Y 51'33	
evening set	8500 Mar 22 03:18	15° Ƴ 11'55			8501 Mar 05 13:52	30° ₹	
inferior conj	8500 Mar 27 10:36	8° Y 56'00	2°49'48	evening set	8501 Mar 06 10:44	29° ∺ 20′15	
minimum elong	8500 Mar 27 08:32	9° Y 03'09	2°49'20	inferior conj	8501 Mar 11 19:20	22° ¥ 56′17	
min. Earth dist.	8500 Mar 27 16:10	8° Y 36'36	0.68284 AU	minimum elong	8501 Mar 11 17:05	23°) (04'07	2°18'15
morning rise	8500 Apr 01 13:36	2° Υ 42'39		min. Earth dist.	8501 Mar 11 12:48	23°) 19'00	0.68441 AU
direct morning max el	8500 Apr 06 16:29 8500 Apr 16 21:24	0° Υ 28'38 6° Υ 32'03	23°05'32	morning rise direct	8501 Mar 16 23:19 8501 Mar 21 12:17	16°) 47'37 14°) 55'10	
desc. node	8500 Apr 20 17:57	10° Υ 45'52	25 05 52	morning max el	8501 Mar 30 10:43	20°) 07'11	21°38'43
dese. node	8500 May 05 01:34	0°8		desc. node	8501 Apr 07 14:54	29°) 49'20	21 30 13
morning set	8500 May 21 12:45	25° 8 44'31			8501 Apr 07 18:07	$0^{\circ}\Upsilon$	
	8500 May 24 01:27	$\Pi^{\circ}0$			8501 Apr 28 06:29	0°8	
max. Earth dist.	8500 May 25 19:44	3° Ⅱ 01′06	1.39685 AU	morning set	8501 May 01 13:30	5° 8 11'28	
				max. Earth dist.	8501 May 07 19:49	15° 8 21'15	1.41861 AU
superior conj	8500 Jun 02 12:32	16° Ⅱ 45'01			0501.14 15 10 02	200 1 4140	1056100
minimum elong	8500 Jun 02 18:01	17° Ⅱ 10′18	1°30'09	superior conj	8501 May 15 10:02	28° 8 14'40	
evening rise	8500 Jun 09 13:21 8500 Jun 12 03:30	0°ତ 4°ତ58'00		minimum elong	8501 May 15 15:40 8501 May 16 10:08	28° 8 39'15 0° Ⅱ	1,33,31
asc. node	8500 Jun 12 03:30 8500 Jun 13 01:29	6° © 43'15		evening rise	8501 May 16 10:08 8501 May 26 09:02	17° ∏ 56'32	
use. Houe	8500 Jun 27 08:32	0° N		asc. node	8501 May 30 22:32	26° ∏ 14'29	
evening max el	8500 Jun 28 05:52	0° Ω 55'14	18°33'43		8501 Jun 02 01:39	0°©	
retrograde	8500 Jul 06 02:09	4° Ω 49'34		evening max el	8501 Jun 11 15:22	13° © 42'25	18°10'09
evening set	8500 Jul 08 04:29	4° Ω 33'43		retrograde	8501 Jun 18 13:07	17° © 11'57	
inferior conj	8500 Jul 15 22:36	0° Ω 05'51	0°31'48	evening set	8501 Jun 20 23:08	16° © 46'52	
minimum elong	8500 Jul 15 23:46	0° Ω 03'36	0°31'12	inferior conj	8501 Jun 27 22:30	11°958'30	1°51'08
4 1	8500 Jul 16 01:37	30°R≌		minimum elong	8501 Jun 28 01:26	11°951'52	1°50'02
desc. node	8500 Jul 17 17:15 8500 Jul 19 06:15	28°\$42'59 27°\$33'01	0.57668 AU	min. Earth dist. desc. node	8501 Jul 01 06:48	8°\$58'57 6°\$28'28	0.59847 AU
min. Earth dist. morning rise	8500 Jul 19 06:15 8500 Jul 23 15:30	2/°933'01 24°9348'42	0.57000 AU	morning rise	8501 Jul 04 14:21 8501 Jul 05 00:49	6°9512'13	
direct	8500 Jul 29 11:50	24 \$348 42 23°\$22'08		direct	8501 Jul 11 11:44	4°9514'03	
	8500 Aug 11 19:58	0° Ω		morning max el	8501 Jul 25 20:05	12° © 07'39	27°40'58
morning max el	8500 Aug 12 20:51		26°48'32	Č	8501 Aug 08 21:52	$0^{\circ}\Omega$	
	8500 Sep 02 11:10	0° m			8501 Aug 25 16:15	0° m	
asc. node	8500 Sep 09 01:04	12°M/41'36		morning set	8501 Aug 26 18:42	2° Mp 17'05	

asc. node	8501 Aug 26 22:01	2° Mp 34'28		morning set	8502 Aug 10 19:41	16° Ω 25'37	
max. Earth dist.	8501 Sep 02 01:43	15° m 52'37	1.31664 AU	asc. node	8502 Aug 13 18:59	22° Ω 36′02	
				max. Earth dist.	8502 Aug 16 08:39	28° Ω 06′02	1.32092 AU
superior conj	8501 Sep 02 22:23	17° m 46'56	1°06'05		8502 Aug 17 05:40	0° m y	
minimum elong	8501 Sep 02 20:09	17° m 34'32	1°05'41				
	8501 Sep 08 11:27	0∘ ⊽		superior conj	8502 Aug 18 07:57	2° m 23'31	0°44'44
evening rise	8501 Sep 09 16:14	2° ≏ 34'58		minimum elong	8502 Aug 18 06:06	2° Mp 13'21	0°44'17
	8501 Sep 24 06:37	0° M.		evening rise	8502 Aug 25 03:35	17° m 17'00	
desc. node	8501 Sep 30 13:05	9° ጤ 01'59			8502 Aug 31 08:44	0∘ ⊽	
evening max el	8501 Oct 07 14:25	17°ML00'02	25°50'34	desc. node	8502 Sep 17 10:12	25° ₽ 49'00	
retrograde	8501 Oct 21 12:42	24°M03'08		evening max el	8502 Sep 19 03:52	27° ₽ 34'24	24°21'02
evening set	8501 Oct 27 18:39	22°M31'16			8502 Sep 21 22:20	0° M	
min. Earth dist.	8501 Nov 01 03:06	19° ™ 55'30	0.58216 AU	retrograde	8502 Oct 02 21:54	4° M 28'22	
inferior conj	8501 Nov 04 05:26	17° M .42'41	-5°03'25	evening set	8502 Oct 07 23:24	3°M31'46	
minimum elong	8501 Nov 04 11:58	17° M 30'58		min. Earth dist.	8502 Oct 13 14:43	0° M 40'24	0.56385 AU
morning rise	8501 Nov 12 07:36	13°M20'03			8502 Oct 14 16:50	30°R Ω	
direct	8501 Nov 14 14:58	13°M03'01		inferior conj	8502 Oct 16 02:20	29° ഫ 07'21	-5°34'48
asc. node	8501 Nov 22 21:42	16°M58'33		minimum elong	8502 Oct 16 04:00	29° ₽ 04'45	5°34'39
morning max el	8501 Nov 23 01:37	17° M 07'54	18°41'26	morning rise	8502 Oct 24 10:43	25° 2 06'15	3 3437
morning max ci	8501 Nov 23 01:37 8501 Dec 02 06:42	0° √	16 41 20	direct	8502 Oct 24 10:43 8502 Oct 27 02:11	23° 2 40°13 24° 2 47'38	
marning gat	8501 Dec 02 00:42 8501 Dec 09 07:03	13° ∡ 08'17			8502 Nov 05 21:08	24 ⊆ 47 38 29° ⊆ 25'10	19°40'11
morning set	8301 Dec 09 07.03	13 × 0817		morning max el			19 40 11
	0501 D 17 22 20	200 7 52121	1007120	1	8502 Nov 06 11:25	0°M√ 20 m 40147	
superior conj	8501 Dec 17 23:28	29° ₹ 53'21	1°07'20	asc. node	8502 Nov 09 18:42	3°M48'47	
minimum elong	8501 Dec 18 02:50	0° ろ 09'08	1°07'06	morning set	8502 Nov 23 10:22	27°M39'34	
	8501 Dec 18 00:53	0°る			8502 Nov 24 14:10	0° ∡ ¹	
max. Earth dist.	8501 Dec 25 05:17	13° る 03'30	1.39738 AU				
desc. node	8501 Dec 27 12:03	17° る 00'59		superior conj	8502 Dec 01 07:40	13° ⋌ ³32'33	1°26'31
evening rise	8501 Dec 29 06:37	20° පි 01'51		minimum elong	8502 Dec 01 10:18	13° ∡ ¹45'30	1°26'28
	8502 Jan 04 08:51	0° ≈		max. Earth dist.	8502 Dec 07 11:20	25° ∡ ¹20'25	1.37571 AU
	8502 Jan 25 05:58	0° ∀			8502 Dec 10 00:29	0° る	
evening max el	8502 Feb 02 05:53	9° ∺ 08'14	24°04'16	evening rise	8502 Dec 11 04:48	2° る 06'44	
retrograde	8502 Feb 13 08:53	15°) 40′21		desc. node	8502 Dec 14 09:03	7° る 39'20	
evening set	8502 Feb 18 15:54	13° ∺ 28′01			8502 Dec 28 12:24	0° ≈	
asc. node	8502 Feb 18 20:47	13°) (17′28		evening max el	8503 Jan 15 19:06	22° ≈ 56′12	25°20'01
min. Earth dist.	8502 Feb 23 09:15	8° ₩ 01'15	0.68192 AU	retrograde	8503 Jan 27 21:27	29° ≈ 55′08	
inferior conj	8502 Feb 24 03:23	6° 升 59'53	1°39'16	evening set	8503 Feb 02 17:14	27° ≈ 30'34	
minimum elong	8502 Feb 24 01:23	7° ∺ 06'38	1°38'39	asc. node	8503 Feb 05 17:54	24° ≈ 22'18	
morning rise	8502 Mar 01 10:53	0° ¥ 57′27		min. Earth dist.	8503 Feb 07 03:12	22° ≈ 38'35	0.67552 AU
	8502 Mar 03 00:34	30° R ≈		inferior conj	8503 Feb 08 08:49	21° ≈ 02'47	0°51'21
direct	8502 Mar 05 10:32	29° ≈ 27'14		minimum elong	8503 Feb 08 07:36	21° ≈ 06'45	0°51'00
	8502 Mar 07 23:28	0° ∀		morning rise	8503 Feb 13 22:18	15° ≈ 08'22	
morning max el	8502 Mar 13 06:52	3° ¥ 54'12	20°21'47	direct	8503 Feb 17 09:42	13° ≈ 58'57	
desc. node	8502 Mar 25 11:49	19° ¥ 26'30		morning max el	8503 Feb 24 11:03	17° ≈ 52'43	19°18'48
	8502 Apr 01 16:23	0° Υ		Č	8503 Mar 05 23:59	0° ∀	
morning set	8502 Apr 10 15:48	13° Y '40'02		greatest brilliancy	8503 Mar 09 11:08	5° ¥ 05'47	-0.7m
max. Earth dist.	8502 Apr 20 03:32	28° Y 36'51	1.43690 AU	desc. node	8503 Mar 12 08:43	9°) 27'49	
	8502 Apr 21 00:12	0°8		morning set	8503 Mar 20 15:18	22°) €09'03	
	r			. 8	8503 Mar 25 16:55	0° Υ	
superior conj	8502 Apr 26 07:54	8° 8 41'22	-2°10'41	max. Earth dist.	8503 Apr 02 18:03	12° Y °35'21	1.44950 AU
minimum elong	8502 Apr 26 10:14	8° 8 51'01			r		
evening rise	8502 May 08 21:49	0° I 08'01	2 10 .0	superior conj	8503 Apr 06 05:30	18° Y ′05'46	-2°08'10
evening rise	8502 May 08 19:58	0°II		minimum elong	8503 Apr 06 01:00	17° Υ 47'52	
asc. node	8502 May 17 19:37	15° ∏ 24'31		minimum crong	8503 Apr 13 15:04	0°8	2 00 03
evening max el	8502 May 26 04:21	26°II53'23	18°05'57	evening rise	8503 Apr 20 13:12	11° 8 22'56	
evening max er	8502 May 30 23:06	0°95	16 03 37	evening rise	8503 May 01 22:44	0°Ⅱ	
retrograde	8502 Jun 01 15:01	0°9513'59		asc. node	8503 May 01 22:44 8503 May 04 16:42	4° Ⅱ 05'36	
renograde		0 ⊙ 13 39 30°R Ⅱ			•	10° Ⅱ 19'01	10020120
. ,	8502 Jun 03 07:07			evening max el	8503 May 09 17:31		18°20'28
evening set	8502 Jun 04 08:33	29° ∏ 37'03	29.42107	retrograde	8503 May 16 03:14	13° Ⅱ 45'08	
inferior conj	8502 Jun 10 16:42	24° ∏ 28'55		evening set	8503 May 19 04:00	12° ∏ 54'51	2011/50
minimum elong	8502 Jun 10 19:25	24° Ⅱ 21'53	2°42'19	inferior conj	8503 May 25 01:00	7° Ⅱ 28'43	3°11'59
min. Earth dist.	8502 Jun 13 15:41	21° Ⅱ 26'54	0.62097 AU	minimum elong	8503 May 25 02:35	7° Ⅱ 24'09	3°11'38
morning rise	8502 Jun 17 04:23	18° Ⅲ 24'00		min. Earth dist.	8503 May 27 09:57	4° Ⅱ 45'08	0.64150 AU
desc. node	8502 Jun 21 11:24	16° Ⅱ 17'49		morning rise	8503 May 31 00:04	1° Ⅱ 13'58	
direct	8502 Jun 23 22:08	15° Ⅱ 59'07	25055120	12	8503 Jun 01 18:02	30°₹ 8	
morning max el	8502 Jul 08 01:29	24° Ⅱ 00'32	27~55'30	direct	8503 Jun 06 17:07	28° 8 32'24	
	8502 Jul 13 10:49	0° ©		desc. node	8503 Jun 08 08:25	28° 8 41'05	
	8502 Aug 02 06:09	0 \circ Ω			8503 Jun 12 02:34	Π °0	

morning max el	8503 Jun 20 10:55	6° Ⅲ 32'35	27°33'15	morning rise	8504 May 13 08:59	14° 8 31'52	
	8503 Jul 08 09:20	0∘ ©		direct	8504 May 19 19:30	11° 8 45'20	
	8503 Jul 25 10:57	0 $^{\circ}\Omega$		desc. node	8504 May 25 05:25	13° 8 20'49	
morning set	8503 Jul 25 12:49	0° Ω 09'10		morning max el	8504 Jun 01 21:31	19° 8 31'38	26°39'59
max. Earth dist.	8503 Jul 30 08:47	9° Ω 58'23	1.32995 AU		8504 Jun 10 19:29	0°Щ	
asc. node	8503 Jul 31 15:58	12° Ω 42'03			8504 Jun 30 10:45	0ංම	
		_		morning set	8504 Jul 07 18:51	13° © 18'05	
superior conj	8503 Aug 02 13:38	16° Ω 44'52	0°19'10	max. Earth dist.	8504 Jul 11 22:38	21° © 22'26	1.34382 AU
minimum elong	8503 Aug 02 12:42	16° Ω 39'54	0°18'49		8504 Jul 16 04:38	0 $^{\circ}$ Ω	
	8503 Aug 08 17:15	0° m/y					
evening rise	8503 Aug 09 15:06	1° Mp 56'31		superior conj	8504 Jul 16 13:04	0° Ω 43'41	
	8503 Aug 25 02:30	0∘ ⊽		minimum elong	8504 Jul 16 13:38	0° Ω 46'35	0°10'03
evening max el	8503 Aug 31 15:27	7° Ω 46'51	22°41'34	behind sun begin	8504 Jul 16 09:04	0° Ω 22'57	
desc. node	8503 Sep 04 07:19	10° £ 53'27		behind sun end	8504 Jul 16 18:11	1°Ω10'14	
retrograde	8503 Sep 13 18:58	14° £ 20'33		asc. node	8504 Jul 17 12:55	2° Ω 47'44	
evening set	8503 Sep 17 08:09	13° £ 52'54	0.55110.411	evening rise	8504 Jul 24 00:46	16° Ω 26'39	
min. Earth dist.	8503 Sep 24 23:03	10° £ 28'46	0.55112 AU		8504 Jul 30 20:10	0° Mp	21000120
inferior conj	8503 Sep 26 04:46	9° Ω 46'28		evening max el	8504 Aug 12 10:16	18° Mp 13'07	21°08'30
minimum elong	8503 Sep 25 22:50	9° £ 54'55	5°19'18	desc. node	8504 Aug 21 04:26	23° Mp 42'41	
morning rise	8503 Oct 04 15:29	5° £ 58'14		retrograde	8504 Aug 24 07:53	24° Mp 07'00	
direct	8503 Oct 07 19:13	5° Ω 35'23	21001105	evening set	8504 Aug 26 15:51	23° m 54'16	404.0104
morning max el	8503 Oct 19 03:46	10° £ 54'34	21°01'05	inferior conj	8504 Sep 04 21:29	19° m 57'18	
asc. node	8503 Oct 27 15:40	21° Ω 36'42		minimum elong	8504 Sep 04 11:53	20° m 10'50	4°07'24
	8503 Nov 01 12:41	0°M		min. Earth dist.	8504 Sep 05 07:53	19° m 42'38	0.54674 AU
morning set	8503 Nov 07 18:32	12°M23'04		morning rise	8504 Sep 13 08:25	16° Mp 03'15	
	050031 15 00 05	250M (2121	1005101	direct	8504 Sep 17 03:20	15° Mp 32'24	22020155
superior conj	8503 Nov 15 03:05	27°M43'31	1°37'31	morning max el	8504 Sep 29 22:42	21° m/38'26	22°39'57
minimum elong	8503 Nov 15 04:28	27°M50'36	1°37'36	,	8504 Oct 07 02:48	0∘ ⊽	
en al en a	8503 Nov 16 05:42	0° ⊀ ⁷	1.05550 177	asc. node	8504 Oct 13 12:37	10° ≏ 08'15	
max. Earth dist.	8503 Nov 19 20:37	7°×15'47	1.35578 AU	morning set	8504 Oct 22 05:21	27° 2 11'51	
evening rise	8503 Nov 23 21:25	15° ₹ 00'22			8504 Oct 23 13:02	0° M .	
desc. node	8503 Dec 01 06:06	28° ₹ 08'08			0504.0 + 20.06.12	120M 15H 4	1041115
	8503 Dec 02 08:39	5°0		superior conj	8504 Oct 29 06:12	12°M15'14	1°41'15
	8503 Dec 23 04:16	0°≈ (°≈•41!20	26924111	minimum elong	8504 Oct 29 06:16		1°41'22
evening max el	8503 Dec 29 08:12	6°≈41'30 13°≈56'43	26°24'11	max. Earth dist.	8504 Nov 01 13:04	19°M10'08	1.33929 AU
retrograde	8504 Jan 11 04:57 8504 Jan 17 12:57	13 ≈30 43 11°≈23'29		evening rise	8504 Nov 06 04:32	28°M32'26 0° <i>₹</i> 7	
evening set			0.66531 AU	daga mada	8504 Nov 06 22:30		
min. Earth dist.	8504 Jan 21 16:27 8504 Jan 23 09:41	7°≈06'10 5°≈01'16		desc. node	8504 Nov 17 03:09 8504 Nov 24 13:04	18° メ 21'32 0°る	
inferior conj minimum elong	8504 Jan 23 09:48	5°≈00'55		ovanina may al	8504 Nov 24 13.04 8504 Dec 10 21:13	0 3 20° る 16'07	27900124
transit middle	8504 Jan 23 09:48	5°≈00'55	0°04'11	evening max el retrograde	8504 Dec 24 06:43	20 3 1007 27° 3 37'09	27 09 34
transit begin	8504 Jan 23 07:00	5°≈09'24	0 0411	evening set	8504 Dec 31 01:01	27 3 3709 25° る 01'05	
transit begin	8504 Jan 23 12:35	3 ≈09 24 4°≈52'28		min. Earth dist.	8505 Jan 03 22:53	23 3 01 03 21° 3 17'36	0.65147 AU
asc. node	8504 Jan 23 14:58	4°≈45'17		inferior conj	8505 Jan 06 03:46	18°る50'20	
ase. Hode	8504 Jan 28 05:18	30°R₹		minimum elong	8505 Jan 06 05:46		1°06'13
morning rise	8504 Jan 29 07:28	29° ප 16'54		asc. node	8505 Jan 09 12:00	15°る23'10	1 00 15
direct	8504 Feb 01 08:06	28° පි 25'19		morning rise	8505 Jan 12 11:54	13° る 2310	
direct	8504 Feb 05 14:31	0°≈		direct	8505 Jan 15 03:38	13° ろ 1027	
morning max el	8504 Feb 07 22:11	1°≈58'31	18°31'41	morning max el	8505 Jan 21 13:54		18°01'20
desc. node	8504 Feb 27 05:38	29° ≈ 46'48	10 31 11	morning man vi	8505 Jan 31 17:03	0° ≈	10 01 20
dese. Hode	8504 Feb 27 08:58	0° ∀		morning set	8505 Feb 08 12:27	12° ≈ 46'24	
morning set	8504 Feb 28 11:05	1°) 43′22		desc. node	8505 Feb 13 02:34	20°≈18'26	
morning sec	0301100 20 11.03	1 /(13 22		dese. Hode	8505 Feb 19 02:21	0° ₩	
superior conj	8504 Mar 15 11:42	26° ¥ 55'12	-1°45'24		0000100 15 02.21	٠ ٨	
minimum elong	8504 Mar 15 02:16	26° H 18'17		superior conj	8505 Feb 22 20:46	6° ₩ 00'11	-1°06'44
max. Earth dist.	8504 Mar 15 12:25	26° H 57'58	1.45512 AU	minimum elong	8505 Feb 22 13:08	5° ¥ 29'57	
man. Darvir dige.	8504 Mar 17 10:55	0°Υ	1.10012110	max. Earth dist.	8505 Feb 26 07:51		1.45327 AU
evening rise	8504 Mar 31 04:58	21° Υ 39'51		Zurur dibt.	8505 Mar 10 05:52	0° Υ	
2.0	8504 Apr 05 10:59	0° 8		evening rise	8505 Mar 11 00:42	1° Υ 12'40	
greatest brilliancy	8504 Apr 09 03:53	5° 8 50'36	-0.8m	greatest brilliancy	8505 Mar 24 17:34	22° Υ '05'16	-0.7m
asc. node	8504 Apr 07 03:35 8504 Apr 20 13:46	22° 8 08'30	0.0.11	5. carost offinancy	8505 Mar 30 06:17	0°8	V., 111
evening max el	8504 Apr 22 04:11	23° 8 52'41	18°52'50	evening max el	8505 Apr 05 10:32	7° と 30'49	19°41'43
retrograde	8504 Apr 28 21:46	27° 8 37'06	10 02 30	asc. node	8505 Apr 07 10:51	9° 8 21'59	17 (1 7)
evening set	8504 May 02 05:59	26° 8 32'36		retrograde	8505 Apr 12 19:28	11° 8 44'17	
inferior conj	8504 May 07 19:31	20° 8 50'11	3°22'38	evening set	8505 Apr 16 11:56	10° 8 24'56	
minimum elong	8504 May 07 19:46	20° 8 49'25	3°22'30	inferior conj	8505 Apr 21 21:07	4° 8 28'02	3°18'53
min. Earth dist.	8504 May 07 13:40 8504 May 09 13:11	18° 8 39'38	0.65862 AU	minimum elong	8505 Apr 21 20:13	4° 8 31'04	
uibt.		22 03730	302 110	violig	pr 21 20.15	. 35101	

min. Earth dist.	8505 Apr 22 23:58 8505 Apr 25 09:21	2° ႘ 58'44 30° ϝ ϒ 28° ϒ 10'02	0.67157 AU	evening set inferior conj	8506 Mar 31 19:47 8506 Apr 06 03:10	24° Y 26'26 18° Y 16'56 18° Y 22'57	3°03'22 3°03'01
morning rise direct	8505 Apr 27 04:10 8505 May 03 04:07	26 γ 10 02 25° γ 29'43		minimum elong min. Earth dist.	8506 Apr 06 01:25 8506 Apr 06 16:12	16° 12237 17° Υ $32'03$	0.68005 AU
desc. node	8505 May 12 02:23	29° Υ 46'29		morning rise	8506 Apr 11 06:50	17 γ 32 03	0.08003 AC
dese. Hode	8505 May 12 02:23	0°8		direct	8506 Apr 16 17:51	9° Υ 36'13	
morning max el	8505 May 15 07:16	2° 8 46'07	25°24'35	morning max el	8506 Apr 27 16:16	16° Υ 08'14	23°57'14
	8505 Jun 04 23:35	0°II		desc. node	8506 Apr 28 23:21	17° Y 29'12	
morning set	8505 Jun 20 09:41	25° Ⅱ 41'27			8506 May 09 02:32	0°8	
	8505 Jun 22 18:12	0ಂತಾ			8506 May 28 23:11	$\Pi^{\circ}0$	
max. Earth dist.	8505 Jun 24 01:39	2° 5 26'43	1.36224 AU	morning set	8506 Jun 02 04:04	7° Ⅱ 04'47	
				max. Earth dist.	8506 Jun 05 22:13	13° ∏ 38′27	1.38392 AU
superior conj	8505 Jun 30 03:34	14° © 13'15	-0°41'28				
minimum elong	8505 Jun 30 06:05	14° © 25'44	0°41'11	superior conj	8506 Jun 13 05:37	27° Ⅱ 04'18	
asc. node	8505 Jul 04 09:55	22° © 49'34		minimum elong	8506 Jun 13 10:11	27° ∏ 25'58	1°12'49
	8505 Jul 07 22:15	0°N			8506 Jun 14 18:27	0°95	
evening rise	8505 Jul 08 06:26	0° Ω 41'34	10050111	asc. node	8506 Jun 21 06:56	12°543'07	
evening max el	8505 Jul 25 18:03		19°52'11	evening rise	8506 Jun 22 05:28	14°933'46	
ratra ara da	8505 Jul 26 11:07	0° Mp 4° Mp 21′24		avanina may al	8506 Jun 30 11:41 8506 Jul 08 14:28	0° Ω 11° Ω 09'53	18°56'20
retrograde evening set	8505 Aug 04 22:58 8505 Aug 06 19:49	4° Mp 12'01		evening max el retrograde	8506 Jul 17 04:31	11 δ 09 33	18 30 20
desc. node	8505 Aug 08 01:31	3° Mp 56'00		evening set	8506 Jul 17 04:31 8506 Jul 19 03:23	15° Ω 12'42	
inferior conj	8505 Aug 15 18:48	0° الله 11'15	-2°20'57	desc. node	8506 Jul 25 22:36	13° Ω 55'35	
minimum elong	8505 Aug 15 12:22	0°m/21'05		inferior conj	8506 Jul 27 08:57	10° Ω 56'02	-0°26'11
	8505 Aug 16 02:10	30°R Ω		minimum elong	8506 Jul 27 07:51	10° Ω 57'59	
min. Earth dist.	8505 Aug 17 19:03	28° Ω 57'41	0.55201 AU	min. Earth dist.	8506 Jul 30 09:46	8° Ω 48'32	0.56588 AU
morning rise	8505 Aug 24 03:05	25° Ω 51'36		morning rise	8506 Aug 04 09:04	6° Ω 00'09	
direct	8505 Aug 28 16:41	25° Ω 05'47		direct	8506 Aug 09 18:51	4° Ω 50'42	
	8505 Sep 09 07:14	0° m		morning max el	8506 Aug 24 00:52	12° Ω 12′02	26°03'16
morning max el	8505 Sep 11 11:20	1°₩ 54'35	24°26'00		8506 Sep 06 21:05	0° ™	
asc. node	8505 Sep 30 09:34	29° m 12'49		asc. node	8506 Sep 17 06:32	18° m 41'52	
	8505 Sep 30 19:25	0∘ ⊽		morning set	8506 Sep 21 04:08	26° Mp 46'11	
morning set	8505 Oct 06 17:05	12° ഫ 01'03			8506 Sep 22 16:13	0∘ ⊽	
	0505 0-4 12 14:10	269 0 50124	1020122		050(C 20 01.1(110 0 40/51	1920102
superior conj	8505 Oct 13 14:19	26° £ 59'34	1°38'32	superior conj	8506 Sep 28 01:16	11° £ 49'51	1°30'03
superior conj minimum elong	8505 Oct 13 13:16	26° ≙ 53'53	1°38'32 1°38'34	minimum elong	8506 Sep 27 23:25	11° ≏ 39'41	1°29'55
minimum elong	8505 Oct 13 13:16 8505 Oct 14 23:30	26° £ 53'53 0° M	1°38'34	minimum elong max. Earth dist.	8506 Sep 27 23:25 8506 Sep 28 21:09	11° ഫ 39'41 13° ഫ 39'50	
minimum elong max. Earth dist.	8505 Oct 13 13:16 8505 Oct 14 23:30 8505 Oct 15 13:54	26° ≙ 53'53		minimum elong	8506 Sep 27 23:25	11° Ω 39'41 13° Ω 39'50 26° Ω 55'43	1°29'55
minimum elong	8505 Oct 13 13:16 8505 Oct 14 23:30	26° £ 53'53 0° M 1° M 17'54	1°38'34	minimum elong max. Earth dist.	8506 Sep 27 23:25 8506 Sep 28 21:09 8506 Oct 05 00:31	11° ഫ 39'41 13° ഫ 39'50	1°29'55
minimum elong max. Earth dist.	8505 Oct 13 13:16 8505 Oct 14 23:30 8505 Oct 15 13:54 8505 Oct 20 22:35	26° 2 53'53 0° M 1° M 17'54 12° M 33'39	1°38'34	minimum elong max. Earth dist. evening rise	8506 Sep 27 23:25 8506 Sep 28 21:09 8506 Oct 05 00:31 8506 Oct 06 12:08	11° Ω 39'41 13° Ω 39'50 26° Ω 55'43 0° M	1°29'55
minimum elong max. Earth dist. evening rise	8505 Oct 13 13:16 8505 Oct 14 23:30 8505 Oct 15 13:54 8505 Oct 20 22:35 8505 Oct 30 03:13	26° 2 53'53 0° M 1° M 17'54 12° M 33'39 0° ₹	1°38'34	minimum elong max. Earth dist. evening rise	8506 Sep 27 23:25 8506 Sep 28 21:09 8506 Oct 05 00:31 8506 Oct 06 12:08 8506 Oct 21 21:18	11° \(\Omega 39'41\) 13° \(\Omega 39'50\) 26° \(\Omega 55'43\) 0° \(\mu \) 27° \(\mu 32'39\)	1°29'55
minimum elong max. Earth dist. evening rise	8505 Oct 13 13:16 8505 Oct 14 23:30 8505 Oct 15 13:54 8505 Oct 20 22:35 8505 Oct 30 03:13 8505 Nov 04 00:14	26° £ 53'53 0° M 1° M 17'54 12° M 33'39 0° ⊀ 8° ⊀ 12'40	1°38'34 1.32711 AU	minimum elong max. Earth dist. evening rise desc. node	8506 Sep 27 23:25 8506 Sep 28 21:09 8506 Oct 05 00:31 8506 Oct 06 12:08 8506 Oct 21 21:18 8506 Oct 23 12:38	11° ♀ 39'41 13° ♀ 39'50 26° ♀ 55'43 0° ™ 27° ™ 32'39	1°29'55 1.31944 AU
minimum elong max. Earth dist. evening rise desc. node	8505 Oct 13 13:16 8505 Oct 14 23:30 8505 Oct 15 13:54 8505 Oct 20 22:35 8505 Oct 30 03:13 8505 Nov 04 00:14 8505 Nov 19 23:14	26°至53'53 0°肌 1°肌17'54 12°肌33'39 0°ズ 8°ズ12'40 0°उ 3°उ28'54	1°38'34 1.32711 AU	minimum elong max. Earth dist. evening rise desc. node	8506 Sep 27 23:25 8506 Sep 28 21:09 8506 Oct 05 00:31 8506 Oct 06 12:08 8506 Oct 21 21:18 8506 Oct 23 12:38 8506 Nov 05 16:56	11° \$\times 39'41 13° \$\times 39'50 26° \$\times 55'43 0° \$\mathbb{M}\$ 27° \$\mathbb{M}\$,32'39 0° \$\stacksquare* 16° \$\times 06'48 23° \$\times 19'10 21° \$\times 02'59	1°29'55 1.31944 AU 27°17'10
minimum elong max. Earth dist. evening rise desc. node evening max el	8505 Oct 13 13:16 8505 Oct 14 23:30 8505 Oct 15 13:54 8505 Oct 20 22:35 8505 Oct 30 03:13 8505 Nov 04 00:14 8505 Nov 19 23:14 8505 Nov 23 08:56	26°至53'53 0°肌 1°肌17'54 12°肌33'39 0°メ 8°メ12'40 0°उ 3°उ28'54 10°उ47'27 8°उ16'31	1°38'34 1.32711 AU 27°29'07	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	8506 Sep 27 23:25 8506 Sep 28 21:09 8506 Oct 05 00:31 8506 Oct 06 12:08 8506 Oct 21 21:18 8506 Oct 23 12:38 8506 Nov 05 16:56 8506 Nov 19 13:20	11° \$\times 39'41 13° \$\times 39'50 26° \$\times 55'43 0° \$\mathbb{M}\$ 27° \$\mathbb{M}\$,32'39 0° \$\stacksquare* 16° \$\times 06'48 23° \$\times 19'10 21° \$\times 02'59	1°29'55 1.31944 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	8505 Oct 13 13:16 8505 Oct 14 23:30 8505 Oct 15 13:54 8505 Oct 20 22:35 8505 Oct 30 03:13 8505 Nov 04 00:14 8505 Nov 19 23:14 8505 Nov 23 08:56 8505 Dec 07 01:52 8505 Dec 14 02:46 8505 Dec 17 20:27	26°至53'53 0°M 1°M17'54 12°M33'39 0°ズ 8°ズ12'40 0°G 3°G28'54 10°G47'27 8°G16'31 5°G04'04	1°38'34 1.32711 AU 27°29'07 0.63444 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	8506 Sep 27 23:25 8506 Sep 28 21:09 8506 Oct 05 00:31 8506 Oct 06 12:08 8506 Oct 21 21:18 8506 Oct 23 12:38 8506 Nov 05 16:56 8506 Nov 19 13:20 8506 Nov 26 14:54 8506 Nov 30 07:32 8506 Dec 03 08:33	11° \$\to 39'41 13° \$\to 39'50 26° \$\to 55'43 0° \$\mathbb{M}\$ 27° \$\mathbb{M}\$ 32'39 0° \$\stacksquare{\sq	1°29'55 1.31944 AU 27°17'10 0.61490 AU -3°26'07
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	8505 Oct 13 13:16 8505 Oct 14 23:30 8505 Oct 15 13:54 8505 Oct 20 22:35 8505 Oct 30 03:13 8505 Nov 04 00:14 8505 Nov 19 23:14 8505 Nov 23 08:56 8505 Dec 07 01:52 8505 Dec 14 02:46 8505 Dec 17 20:27 8505 Dec 20 12:24	26°至53'53 0°M 1°M17'54 12°M33'39 0°ダ 8°ダ12'40 0°G 3°G28'54 10°G47'27 8°G16'31 5°G04'04 2°G23'31	1°38'34 1.32711 AU 27°29'07 0.63444 AU -2°15'38	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	8506 Sep 27 23:25 8506 Sep 28 21:09 8506 Oct 05 00:31 8506 Oct 06 12:08 8506 Oct 21 21:18 8506 Oct 23 12:38 8506 Nov 05 16:56 8506 Nov 19 13:20 8506 Nov 26 14:54 8506 Nov 30 07:32 8506 Dec 03 08:33 8506 Dec 03 15:00	11° \$\to 39'41 13° \$\to 39'50 26° \$\to 55'43 0° \$\mathbb{M}\$ 27° \$\mathbb{M}\$ 32'39 0° \$\stacksquare{\sq	1°29'55 1.31944 AU 27°17'10 0.61490 AU -3°26'07
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	8505 Oct 13 13:16 8505 Oct 14 23:30 8505 Oct 15 13:54 8505 Oct 20 22:35 8505 Oct 30 03:13 8505 Nov 04 00:14 8505 Nov 19 23:14 8505 Nov 23 08:56 8505 Dec 07 01:52 8505 Dec 14 02:46 8505 Dec 17 20:27 8505 Dec 20 12:24 8505 Dec 20 16:42	26°至53'53 0°M 1°M17'54 12°M33'39 0°ダ 8°ダ12'40 0°G 3°G28'54 10°G47'27 8°G16'31 5°G04'04 2°G23'31 2°G12'44	1°38'34 1.32711 AU 27°29'07 0.63444 AU -2°15'38	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	8506 Sep 27 23:25 8506 Sep 28 21:09 8506 Oct 05 00:31 8506 Oct 06 12:08 8506 Oct 21 21:18 8506 Oct 23 12:38 8506 Nov 05 16:56 8506 Nov 19 13:20 8506 Nov 26 14:54 8506 Nov 30 07:32 8506 Dec 03 08:33 8506 Dec 03 15:00 8506 Dec 10 17:22	11° \$\to 39'41 13° \$\to 39'50 26° \$\to 55'43 0° \$\mathbb{M}\$ 27° \$\mathbb{M}\$ 32'39 0° \$\stacksquare{A}\$ 16° \$\tau 06'48 23° \$\tau 19'10 21° \$\tau 02'59 18° \$\tau 15'19 15° \$\tau 33'13 15° \$\tau 18'49 10° \$\tau 35'35	1°29'55 1.31944 AU 27°17'10 0.61490 AU -3°26'07
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	8505 Oct 13 13:16 8505 Oct 14 23:30 8505 Oct 15 13:54 8505 Oct 20 22:35 8505 Oct 30 03:13 8505 Nov 04 00:14 8505 Nov 19 23:14 8505 Nov 23 08:56 8505 Dec 07 01:52 8505 Dec 14 02:46 8505 Dec 17 20:27 8505 Dec 20 12:24 8505 Dec 20 16:42 8505 Dec 23 00:03	26°至53'53 0°M 1°M17'54 12°M33'39 0°ダ 8°ダ12'40 0°℧ 3°℧28'54 10°℧47'27 8°℧16'31 5°℧04'04 2°℧23'31 2°℧12'44 30°Rダ	1°38'34 1.32711 AU 27°29'07 0.63444 AU -2°15'38	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	8506 Sep 27 23:25 8506 Sep 28 21:09 8506 Oct 05 00:31 8506 Oct 06 12:08 8506 Oct 21 21:18 8506 Oct 23 12:38 8506 Nov 05 16:56 8506 Nov 19 13:20 8506 Nov 26 14:54 8506 Nov 30 07:32 8506 Dec 03 08:33 8506 Dec 03 15:00 8506 Dec 10 17:22 8506 Dec 12 22:47	11° \$\to 39'41\ 13° \$\to 39'50\ 26° \$\to 55'43\ 0° \$\mathbb{M}\ 27° \$\mathbb{M}.32'39\ 0° \$\stacksquare\ 16° \$\tau 06'48\ 23° \$\stacksquare\{19'10}\ 21° \$\tau 02'59\ 18° \$\tau 15'19\ 15° \$\tau 33'13\ 15° \$\tau 18'49\ 10° \$\tau 35'35\ 10° \$\tau 14'42	1°29'55 1.31944 AU 27°17'10 0.61490 AU -3°26'07
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	8505 Oct 13 13:16 8505 Oct 14 23:30 8505 Oct 15 13:54 8505 Oct 20 22:35 8505 Oct 30 03:13 8505 Nov 04 00:14 8505 Nov 19 23:14 8505 Nov 23 08:56 8505 Dec 07 01:52 8505 Dec 14 02:46 8505 Dec 17 20:27 8505 Dec 20 12:24 8505 Dec 20 16:42 8505 Dec 23 00:03 8505 Dec 27 08:31	26°至53'53 0°M 1°M17'54 12°M33'39 0°メ 8°メ12'40 0°℧ 3°℧28'54 10°℧47'27 8°℧16'31 5°℧04'04 2°℧23'31 2°℧12'44 30°Rメ 27°メ07'01	1°38'34 1.32711 AU 27°29'07 0.63444 AU -2°15'38	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	8506 Sep 27 23:25 8506 Sep 28 21:09 8506 Oct 05 00:31 8506 Oct 06 12:08 8506 Oct 21 21:18 8506 Oct 23 12:38 8506 Nov 05 16:56 8506 Nov 19 13:20 8506 Nov 26 14:54 8506 Dec 03 08:33 8506 Dec 03 15:00 8506 Dec 10 17:22 8506 Dec 12 22:47 8506 Dec 14 06:06	11° \$\to 39'41 13° \$\to 39'50 26° \$\to 55'43 0° \$\mathbb{M}\$ 27° \$\mathbb{M}\$, 32'39 0° \$\stacksquare{A}\$ 16° \$\to 06'48 23° \$\stacksquare{A}\$ 19'10 21° \$\stacksquare{A}\$ 02'59 18° \$\stacksquare{A}\$ 15'19 15° \$\stacksquare{A}\$ 33'13 15° \$\stacksquare{A}\$ 18'49 10° \$\stacksquare{A}\$ 22'07	1°29'55 1.31944 AU 27°17'10 0.61490 AU -3°26'07 3°23'45
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node	8505 Oct 13 13:16 8505 Oct 14 23:30 8505 Oct 15 13:54 8505 Oct 20 22:35 8505 Oct 30 03:13 8505 Nov 04 00:14 8505 Nov 19 23:14 8505 Nov 23 08:56 8505 Dec 07 01:52 8505 Dec 14 02:46 8505 Dec 17 20:27 8505 Dec 20 12:24 8505 Dec 20 16:42 8505 Dec 23 00:03 8505 Dec 27 08:31 8505 Dec 27 09:03	26°至53'53 0°M 1°M17'54 12°M33'39 0°メ 8°メ12'40 0°उ 3°उ28'54 10°उ47'27 8°उ16'31 5°उ04'04 2°उ23'31 2°उ12'44 30°8メ 27°メ707'01 27°メ706'31	1°38'34 1.32711 AU 27°29'07 0.63444 AU -2°15'38	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	8506 Sep 27 23:25 8506 Sep 28 21:09 8506 Oct 05 00:31 8506 Oct 06 12:08 8506 Oct 21 21:18 8506 Oct 23 12:38 8506 Nov 05 16:56 8506 Nov 19 13:20 8506 Nov 26 14:54 8506 Nov 30 07:32 8506 Dec 03 08:33 8506 Dec 03 15:00 8506 Dec 10 17:22 8506 Dec 12 22:47 8506 Dec 14 06:06 8506 Dec 19 23:10	11° \$\to 39'41\ 13° \$\to 39'50\ 26° \$\to 55'43\ 0° \$\mathbb{m}\ 27° \$\mathbb{m}.32'39\ 0° \$\mathbb{A}'\ 16° \$\mathbb{A}'06'48\ 23° \$\mathbb{A}'19'10\ 21° \$\mathbb{A}'02'59\ 18° \$\mathbb{A}'15'19\ 15° \$\mathbb{A}'33'13\ 15° \$\mathbb{A}'18'49\ 10° \$\mathbb{A}'22'07\ 13° \$\mathbb{A}'47'05	1°29'55 1.31944 AU 27°17'10 0.61490 AU -3°26'07
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	8505 Oct 13 13:16 8505 Oct 14 23:30 8505 Oct 15 13:54 8505 Oct 20 22:35 8505 Oct 30 03:13 8505 Nov 04 00:14 8505 Nov 19 23:14 8505 Nov 23 08:56 8505 Dec 07 01:52 8505 Dec 14 02:46 8505 Dec 17 20:27 8505 Dec 20 12:24 8505 Dec 20 16:42 8505 Dec 23 00:03 8505 Dec 27 08:31 8505 Dec 29 17:39	26°至53'53 0°M 1°M17'54 12°M33'39 0°水 8°水12'40 0°G 3°G28'54 10°G47'27 8°G16'31 5°G04'04 2°G23'31 2°G12'44 30°Rペ 27°水07'01 27°水06'31 26°水39'38	1°38'34 1.32711 AU 27°29'07 0.63444 AU -2°15'38	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	8506 Sep 27 23:25 8506 Sep 28 21:09 8506 Oct 05 00:31 8506 Oct 06 12:08 8506 Oct 21 21:18 8506 Oct 23 12:38 8506 Nov 05 16:56 8506 Nov 19 13:20 8506 Nov 26 14:54 8506 Nov 30 07:32 8506 Dec 03 08:33 8506 Dec 03 15:00 8506 Dec 10 17:22 8506 Dec 12 22:47 8506 Dec 14 06:06 8506 Dec 19 23:10 8506 Dec 31 00:11	11° 至39'41 13° 至39'50 26° 至55'43 0° 肌 27° 肌32'39 0° ズ 16° ズ 06'48 23° ズ 19'10 21° ズ 02'59 18° ズ 15'19 15° ズ 33'13 15° ズ 18'49 10° ズ 22'07 13° ズ 47'05 0° 否	1°29'55 1.31944 AU 27°17'10 0.61490 AU -3°26'07 3°23'45
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct	8505 Oct 13 13:16 8505 Oct 14 23:30 8505 Oct 15 13:54 8505 Oct 20 22:35 8505 Oct 30 03:13 8505 Nov 04 00:14 8505 Nov 19 23:14 8505 Nov 23 08:56 8505 Dec 07 01:52 8505 Dec 14 02:46 8505 Dec 17 20:27 8505 Dec 20 12:24 8505 Dec 20 16:42 8505 Dec 23 00:03 8505 Dec 27 08:31 8505 Dec 29 17:39 8506 Jan 05 05:52	26° 年53'53 0° M 1° M 17'54 12° M 33'39 0° ズ 8° ズ 12'40 0° G 3° G 28'54 10° G 47'27 8° G 16'31 5° G 04'04 2° G 23'31 2° G 12'44 30° R ズ 27° ズ 06'31 26° ズ 39'38 0° G	1°38'34 1.32711 AU 27°29'07 0.63444 AU -2°15'38 2°13'45	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	8506 Sep 27 23:25 8506 Sep 28 21:09 8506 Oct 05 00:31 8506 Oct 06 12:08 8506 Oct 21 21:18 8506 Oct 23 12:38 8506 Nov 05 16:56 8506 Nov 19 13:20 8506 Nov 26 14:54 8506 Nov 30 07:32 8506 Dec 03 08:33 8506 Dec 03 15:00 8506 Dec 10 17:22 8506 Dec 12 22:47 8506 Dec 14 06:06 8506 Dec 19 23:10	11° \$\to 39'41\ 13° \$\to 39'50\ 26° \$\to 55'43\ 0° \$\mathbb{m}\ 27° \$\mathbb{m}.32'39\ 0° \$\mathbb{A}'\ 16° \$\mathbb{A}'06'48\ 23° \$\mathbb{A}'19'10\ 21° \$\mathbb{A}'02'59\ 18° \$\mathbb{A}'15'19\ 15° \$\mathbb{A}'33'13\ 15° \$\mathbb{A}'18'49\ 10° \$\mathbb{A}'22'07\ 13° \$\mathbb{A}'47'05	1°29'55 1.31944 AU 27°17'10 0.61490 AU -3°26'07 3°23'45
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el	8505 Oct 13 13:16 8505 Oct 14 23:30 8505 Oct 15 13:54 8505 Oct 20 22:35 8505 Oct 30 03:13 8505 Nov 04 00:14 8505 Nov 19 23:14 8505 Nov 23 08:56 8505 Dec 07 01:52 8505 Dec 14 02:46 8505 Dec 17 20:27 8505 Dec 20 12:24 8505 Dec 20 16:42 8505 Dec 23 00:03 8505 Dec 27 08:31 8505 Dec 29 17:39	26° 年53'53 0° M 1° M 17'54 12° M 33'39 0° ズ 8° ズ 12'40 0° 云 3° 云 28'54 10° 云 47'27 8° 云 16'31 5° 云 04'04 2° 云 23'31 2° 云 12'44 30° R ズ 27° ズ 06'31 26° ズ 39'38 0° 云 0° 云 03'28	1°38'34 1.32711 AU 27°29'07 0.63444 AU -2°15'38	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	8506 Sep 27 23:25 8506 Sep 28 21:09 8506 Oct 05 00:31 8506 Oct 06 12:08 8506 Oct 21 21:18 8506 Oct 23 12:38 8506 Nov 05 16:56 8506 Nov 19 13:20 8506 Nov 26 14:54 8506 Nov 30 07:32 8506 Dec 03 08:33 8506 Dec 03 15:00 8506 Dec 10 17:22 8506 Dec 12 22:47 8506 Dec 14 06:06 8506 Dec 19 23:10 8506 Dec 31 00:11	11° 至39'41 13° 至39'50 26° 至55'43 0° 肌 27° 肌32'39 0° ズ 16° ズ 06'48 23° ズ 19'10 21° ズ 02'59 18° ズ 15'19 15° ズ 33'13 15° ズ 18'49 10° ズ 22'07 13° ズ 47'05 0° 否	1°29'55 1.31944 AU 27°17'10 0.61490 AU -3°26'07 3°23'45
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct	8505 Oct 13 13:16 8505 Oct 14 23:30 8505 Oct 15 13:54 8505 Oct 20 22:35 8505 Oct 30 03:13 8505 Nov 04 00:14 8505 Nov 19 23:14 8505 Nov 23 08:56 8505 Dec 07 01:52 8505 Dec 14 02:46 8505 Dec 17 20:27 8505 Dec 20 12:24 8505 Dec 20 16:42 8505 Dec 23 00:03 8505 Dec 27 08:31 8505 Dec 29 17:39 8506 Jan 05 05:52 8506 Jan 05 07:17	26° 年53'53 0° M 1° M 17'54 12° M 33'39 0° ズ 8° ズ 12'40 0° G 3° G 28'54 10° G 47'27 8° G 16'31 5° G 04'04 2° G 23'31 2° G 12'44 30° R ズ 27° ズ 06'31 26° ズ 39'38 0° G	1°38'34 1.32711 AU 27°29'07 0.63444 AU -2°15'38 2°13'45	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	8506 Sep 27 23:25 8506 Sep 28 21:09 8506 Oct 05 00:31 8506 Oct 06 12:08 8506 Oct 21 21:18 8506 Oct 23 12:38 8506 Nov 05 16:56 8506 Nov 19 13:20 8506 Nov 26 14:54 8506 Nov 30 07:32 8506 Dec 03 08:33 8506 Dec 03 15:00 8506 Dec 10 17:22 8506 Dec 12 22:47 8506 Dec 14 06:06 8506 Dec 19 23:10 8506 Dec 31 00:11 8507 Jan 04 15:56	11° 至39'41 13° 至39'50 26° 至55'43 0° 肌 27° 肌32'39 0° ズ 16° ズ 06'48 23° ズ 19'10 21° ズ 02'59 18° ズ 15'19 15° ズ 33'13 15° ズ 18'49 10° ズ 22'07 13° ズ 47'05 0° 云 8° 云 22'35	1°29'55 1.31944 AU 27°17'10 0.61490 AU -3°26'07 3°23'45 17°53'16
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el	8505 Oct 13 13:16 8505 Oct 14 23:30 8505 Oct 15 13:54 8505 Oct 20 22:35 8505 Oct 30 03:13 8505 Nov 04 00:14 8505 Nov 19 23:14 8505 Nov 23 08:56 8505 Dec 07 01:52 8505 Dec 14 02:46 8505 Dec 17 20:27 8505 Dec 20 12:24 8505 Dec 20 16:42 8505 Dec 23 00:03 8505 Dec 27 08:31 8505 Dec 27 09:03 8505 Dec 29 17:39 8506 Jan 05 05:52 8506 Jan 05 07:17 8506 Jan 21 16:14	26° 年53'53 0° M 1° M.17'54 12° M.33'39 0° ズ 8° ズ 12'40 0° 云 3° 云 28'54 10° 云 47'27 8° 云 16'31 5° 云 04'04 2° 云 23'31 2° 云 12'44 30° R ズ 27° ズ 06'31 26° ズ 39'38 0° 云 0° 云 03'28 25° 云 06'05	1°38'34 1.32711 AU 27°29'07 0.63444 AU -2°15'38 2°13'45	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	8506 Sep 27 23:25 8506 Sep 28 21:09 8506 Oct 05 00:31 8506 Oct 06 12:08 8506 Oct 21 21:18 8506 Oct 23 12:38 8506 Nov 05 16:56 8506 Nov 19 13:20 8506 Nov 26 14:54 8506 Nov 30 07:32 8506 Dec 03 08:33 8506 Dec 03 15:00 8506 Dec 10 17:22 8506 Dec 12 22:47 8506 Dec 14 06:06 8506 Dec 19 23:10 8506 Dec 31 00:11 8507 Jan 04 15:56	11° 至39'41 13° 至39'50 26° 至55'43 0° 肌 27° 肌32'39 0° ズ 16° ズ 06'48 23° ズ 19'10 21° ズ 02'59 18° ズ 15'19 15° ズ 33'13 15° ズ 18'49 10° ズ 35'35 10° ズ 14'42 10° ズ 22'07 13° ズ 47'05 0° 云 8° 云 22'35	1°29'55 1.31944 AU 27°17'10 0.61490 AU -3°26'07 3°23'45 17°53'16
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set	8505 Oct 13 13:16 8505 Oct 14 23:30 8505 Oct 15 13:54 8505 Oct 20 22:35 8505 Oct 30 03:13 8505 Nov 04 00:14 8505 Nov 19 23:14 8505 Nov 23 08:56 8505 Dec 07 01:52 8505 Dec 14 02:46 8505 Dec 17 20:27 8505 Dec 20 12:24 8505 Dec 20 16:42 8505 Dec 23 00:03 8505 Dec 27 08:31 8505 Dec 27 09:03 8505 Dec 29 17:39 8506 Jan 05 05:52 8506 Jan 05 07:17 8506 Jan 24 12:22	26° \$\omega\$53'53 0° M. 1° M.17'54 12° M.33'39 0° \$\tilde{x}\$ 8° \$\tilde{x}\$12'40 0° \$\tilde{x}\$ 3° \$\tilde{2}8'54 10° \$\tilde{4}7'27 8° \$\tilde{5}16'31 5° \$\tilde{5}04'04 2° \$\tilde{2}3'31 2° \$\tilde{5}12'44 30° \$\tilde{x}\$ 27° \$\tilde{x}\$06'31 26° \$\tilde{x}\$39'38 0° \$\tilde{5}\$ 0° \$\tilde{5}03'28 25° \$\tilde{5}06'05 0° \$\infty\$	1°38'34 1.32711 AU 27°29'07 0.63444 AU -2°15'38 2°13'45	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	8506 Sep 27 23:25 8506 Sep 28 21:09 8506 Oct 05 00:31 8506 Oct 06 12:08 8506 Oct 21 21:18 8506 Oct 23 12:38 8506 Nov 05 16:56 8506 Nov 19 13:20 8506 Nov 26 14:54 8506 Nov 30 07:32 8506 Dec 03 08:33 8506 Dec 03 15:00 8506 Dec 10 17:22 8506 Dec 12 22:47 8506 Dec 14 06:06 8506 Dec 19 23:10 8506 Dec 31 00:11 8507 Jan 04 15:56	11° 至39'41 13° 至39'50 26° 至55'43 0° 肌 27° 肌32'39 0° ズ 16° ズ 06'48 23° ズ 19'10 21° ズ 02'59 18° ズ 15'19 15° ズ 33'13 15° ズ 18'49 10° ズ 35'35 10° ズ 14'42 10° ズ 22'07 13° ズ 47'05 0° 云 8° 云 22'35 27° 云 19'29 27° 云 26'36	1°29'55 1.31944 AU 27°17'10 0.61490 AU -3°26'07 3°23'45 17°53'16
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set	8505 Oct 13 13:16 8505 Oct 14 23:30 8505 Oct 15 13:54 8505 Oct 20 22:35 8505 Oct 30 03:13 8505 Nov 04 00:14 8505 Nov 19 23:14 8505 Nov 23 08:56 8505 Dec 07 01:52 8505 Dec 14 02:46 8505 Dec 17 20:27 8505 Dec 20 12:24 8505 Dec 20 16:42 8505 Dec 23 00:03 8505 Dec 27 08:31 8505 Dec 27 09:03 8505 Dec 29 17:39 8506 Jan 05 05:52 8506 Jan 05 07:17 8506 Jan 24 12:22	26° \$\omega\$53'53 0° M. 1° M.17'54 12° M.33'39 0° \$\tilde{x}\$ 8° \$\tilde{x}\$12'40 0° \$\tilde{x}\$ 3° \$\tilde{2}8'54 10° \$\tilde{4}7'27 8° \$\tilde{5}16'31 5° \$\tilde{5}04'04 2° \$\tilde{2}3'31 2° \$\tilde{5}12'44 30° \$\tilde{x}\$ 27° \$\tilde{x}\$06'31 26° \$\tilde{x}\$39'38 0° \$\tilde{5}\$ 0° \$\tilde{5}03'28 25° \$\tilde{5}06'05 0° \$\infty\$	1°38'34 1.32711 AU 27°29'07 0.63444 AU -2°15'38 2°13'45	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong	8506 Sep 27 23:25 8506 Sep 28 21:09 8506 Oct 05 00:31 8506 Oct 06 12:08 8506 Oct 21 21:18 8506 Oct 23 12:38 8506 Nov 05 16:56 8506 Nov 19 13:20 8506 Nov 26 14:54 8506 Nov 30 07:32 8506 Dec 03 08:33 8506 Dec 03 15:00 8506 Dec 10 17:22 8506 Dec 12 22:47 8506 Dec 12 22:47 8506 Dec 14 06:06 8506 Dec 19 23:10 8506 Dec 31 00:11 8507 Jan 04 15:56 8507 Jan 15 07:06 8507 Jan 15 08:44 8507 Jan 16 20:28	11° 239'41 13° 239'50 26° 255'43 0° M 27° M32'39 0° ズ 16° ズ 06'48 23° ズ 19'10 21° ズ 02'59 18° ズ 15'19 15° ズ 33'13 15° ズ 18'49 10° ズ 35'35 10° ズ 14'42 10° ズ 22'07 13° ズ 47'05 0° 5 8° 5 22'35 27° 5 19'29 27° 5 26'36 0° ※	1°29'55 1.31944 AU 27°17'10 0.61490 AU -3°26'07 3°23'45 17°53'16
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong	8505 Oct 13 13:16 8505 Oct 14 23:30 8505 Oct 15 13:54 8505 Oct 20 22:35 8505 Oct 30 03:13 8505 Nov 04 00:14 8505 Nov 19 23:14 8505 Nov 23 08:56 8505 Dec 07 01:52 8505 Dec 14 02:46 8505 Dec 17 20:27 8505 Dec 20 12:24 8505 Dec 20 12:24 8505 Dec 23 00:03 8505 Dec 27 08:31 8505 Dec 27 09:03 8505 Dec 27 09:03 8505 Dec 29 17:39 8506 Jan 05 07:17 8506 Jan 05 07:17 8506 Jan 21 16:14 8506 Jan 24 12:22 8506 Jan 30 23:30	26° 年53'53 0° M 1° M 17'54 12° M 33'39 0° ズ 8° ズ 12'40 0° ℧ 3° ℧ 28'54 10° ℧ 47'27 8° ℧ 16'31 5° ℧ 04'04 2° ℧ 23'31 2° ℧ 12'44 30° R ズ 27° ズ 06'31 26° ズ 39'38 0° ℧ 0° ℧ 03'28 25° ℧ 06'05 0° ≈ 10° ≈ 57'57	1°38'34 1.32711 AU 27°29'07 0.63444 AU -2°15'38 2°13'45 17°48'14	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong	8506 Sep 27 23:25 8506 Sep 28 21:09 8506 Oct 05 00:31 8506 Oct 06 12:08 8506 Oct 21 21:18 8506 Oct 23 12:38 8506 Nov 05 16:56 8506 Nov 19 13:20 8506 Nov 26 14:54 8506 Dec 03 08:33 8506 Dec 03 15:00 8506 Dec 10 17:22 8506 Dec 12 22:47 8506 Dec 12 22:47 8506 Dec 14 06:06 8506 Dec 19 23:10 8506 Dec 31 00:11 8507 Jan 04 15:56 8507 Jan 15 07:06 8507 Jan 15 08:44 8507 Jan 16 20:28 8507 Jan 17 20:28	11° 至39'41 13° 至39'50 26° 至55'43 0° 肌 27° 肌32'39 0° ズ 16° ズ 06'48 23° ズ 19'10 21° ズ 02'59 18° ズ 15'19 15° ズ 33'13 15° ズ 18'49 10° ズ 22'07 13° ズ 47'05 0° 云 8° 云 22'35 27° 云 19'29 27° 云 26'36 0° ≈ 1° ≈ 42'06 9° ≈ 47'27 20° ≈ 17'04	1°29'55 1.31944 AU 27°17'10 0.61490 AU -3°26'07 3°23'45 17°53'16 0°18'54 0°18'54
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node	8505 Oct 13 13:16 8505 Oct 14 23:30 8505 Oct 15 13:54 8505 Oct 20 22:35 8505 Oct 30 03:13 8505 Nov 04 00:14 8505 Nov 19 23:14 8505 Nov 23 08:56 8505 Dec 07 01:52 8505 Dec 14 02:46 8505 Dec 17 20:27 8505 Dec 20 12:24 8505 Dec 20 12:24 8505 Dec 23 00:03 8505 Dec 27 08:31 8505 Dec 27 09:03 8505 Dec 27 09:03 8505 Dec 29 17:39 8506 Jan 05 05:52 8506 Jan 05 07:17 8506 Jan 24 12:22 8506 Jan 24 12:22 8506 Feb 03 01:06 8506 Feb 03 01:06 8506 Feb 02 22:43 8506 Feb 09 02:05	26° 年53'53 0° M 1° M 17'54 12° M 33'39 0° ズ 8° ズ 12'40 0° ℧ 3° ℧ 28'54 10° ℧ 47'27 8° ℧ 16'31 5° ℧ 04'04 2° ℧ 23'31 2° ℧ 12'44 30° R ズ 27° ズ 06'31 26° ズ 39'38 0° ℧ 0° ℧ 03'28 25° ℧ 06'05 0° ※ 10° ※57'57 16° ※02'49 15° ※52'59 25° ※49'27	1°38'34 1.32711 AU 27°29'07 0.63444 AU -2°15'38 2°13'45 17°48'14	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist.	8506 Sep 27 23:25 8506 Sep 28 21:09 8506 Oct 05 00:31 8506 Oct 06 12:08 8506 Oct 21 21:18 8506 Oct 23 12:38 8506 Nov 05 16:56 8506 Nov 19 13:20 8506 Nov 26 14:54 8506 Nov 30 07:32 8506 Dec 03 08:33 8506 Dec 10 17:22 8506 Dec 12 22:47 8506 Dec 12 22:47 8506 Dec 14 06:06 8506 Dec 19 23:10 8506 Dec 31 00:11 8507 Jan 04 15:56 8507 Jan 15 07:06 8507 Jan 15 08:44 8507 Jan 16 20:28 8507 Jan 17 20:28 8507 Jan 29 05:57 8507 Feb 04 13:05	11° 至39'41 13° 至39'50 26° 至55'43 0° 肌 27° 肌32'39 0° ズ 16° ズ 06'48 23° ズ 19'10 21° ズ 02'59 18° ズ 15'19 15° ズ 33'13 15° ズ 18'49 10° ズ 22'07 13° ズ 47'05 0° 云 8° 云 22'35 27° 云 19'29 27° 云 26'36 0° ≈ 1° ≈ 42'06 9° ≈ 47'27 20° ≈ 17'04 0° 沃	1°29'55 1.31944 AU 27°17'10 0.61490 AU -3°26'07 3°23'45 17°53'16 0°18'54 0°18'54
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	8505 Oct 13 13:16 8505 Oct 14 23:30 8505 Oct 15 13:54 8505 Oct 20 22:35 8505 Oct 30 03:13 8505 Nov 04 00:14 8505 Nov 19 23:14 8505 Nov 23 08:56 8505 Dec 07 01:52 8505 Dec 14 02:46 8505 Dec 17 20:27 8505 Dec 20 12:24 8505 Dec 20 16:42 8505 Dec 20 16:42 8505 Dec 27 08:31 8505 Dec 27 09:03 8505 Dec 27 09:03 8505 Dec 29 17:39 8506 Jan 05 05:52 8506 Jan 05 07:17 8506 Jan 21 16:14 8506 Jan 24 12:22 8506 Jan 30 23:30 8506 Feb 03 01:06 8506 Feb 03 01:06 8506 Feb 09 02:05 8506 Feb 11 17:17	26° 年53'53 0° M 1° M.17'54 12° M.33'39 0° ズ 8° ズ12'40 0° G 3° G28'54 10° G47'27 8° G16'31 5° G04'04 2° G23'31 2° G12'44 30° Rズ 27° ズ07'01 27° ズ06'31 26° ズ39'38 0° G 0° G03'28 25° G06'05 0° ※ 10° ※57'57 16° ※02'49 15° ※52'59 25° ※49'27 0° 大	1°38'34 1.32711 AU 27°29'07 0.63444 AU -2°15'38 2°13'45 17°48'14 -0°22'17 0°21'47	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise	8506 Sep 27 23:25 8506 Sep 28 21:09 8506 Oct 05 00:31 8506 Oct 06 12:08 8506 Oct 21 21:18 8506 Oct 23 12:38 8506 Nov 05 16:56 8506 Nov 19 13:20 8506 Nov 26 14:54 8506 Nov 30 07:32 8506 Dec 03 08:33 8506 Dec 10 17:22 8506 Dec 12 22:47 8506 Dec 12 22:47 8506 Dec 14 06:06 8506 Dec 19 23:10 8506 Dec 31 00:11 8507 Jan 04 15:56 8507 Jan 15 07:06 8507 Jan 15 07:06 8507 Jan 15 07:06 8507 Jan 15 07:06 8507 Jan 17 20:28 8507 Jan 29 05:57 8507 Feb 04 13:05 8507 Feb 04 13:05	11° 239'41 13° 239'50 26° 255'43 0° M. 27° M.32'39 0° ズ 16° ズ 06'48 23° ズ 19'10 21° ズ 02'59 18° ズ 15'19 15° ズ 33'13 15° ズ 18'49 10° ズ 22'07 13° ズ 47'05 0° G 8° G 22'35 27° G 19'29 27° G 26'36 0° ※ 1° ※42'06 9° ※47'27 20° ※17'04 0° 升	1°29'55 1.31944 AU 27°17'10 0.61490 AU -3°26'07 3°23'45 17°53'16 0°18'54 0°18'50 1.42923 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong	8505 Oct 13 13:16 8505 Oct 14 23:30 8505 Oct 15 13:54 8505 Oct 20 22:35 8505 Oct 30 03:13 8505 Nov 04 00:14 8505 Nov 19 23:14 8505 Nov 23 08:56 8505 Dec 07 01:52 8505 Dec 14 02:46 8505 Dec 17 20:27 8505 Dec 20 12:24 8505 Dec 20 16:42 8505 Dec 20 16:42 8505 Dec 27 08:31 8505 Dec 27 09:03 8505 Dec 27 09:03 8505 Dec 29 17:39 8506 Jan 05 05:52 8506 Jan 05 07:17 8506 Jan 21 16:14 8506 Jan 24 12:22 8506 Jan 30 23:30 8506 Feb 03 01:06 8506 Feb 03 01:06 8506 Feb 09 02:05 8506 Feb 11 17:17 8506 Feb 18 11:51	26° 年53'53 0° M 1° M.17'54 12° M.33'39 0° ズ 8° ズ12'40 0° G 3° G28'54 10° G47'27 8° G16'31 5° G04'04 2° G23'31 2° G12'44 30° Rズ 27° ズ07'01 27° ズ06'31 26° ズ39'38 0° G 0° G03'28 25° G06'05 0° ※ 10° ※57'57 16° ※02'49 15° ※52'59 25° ※49'27 0° 沃 10° 沃32'21	1°38'34 1.32711 AU 27°29'07 0.63444 AU -2°15'38 2°13'45 17°48'14 -0°22'17 0°21'47	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise	8506 Sep 27 23:25 8506 Sep 28 21:09 8506 Oct 05 00:31 8506 Oct 06 12:08 8506 Oct 21 21:18 8506 Oct 23 12:38 8506 Nov 05 16:56 8506 Nov 19 13:20 8506 Nov 26 14:54 8506 Nov 30 07:32 8506 Dec 03 08:33 8506 Dec 10 17:22 8506 Dec 12 22:47 8506 Dec 12 22:47 8506 Dec 12 22:47 8506 Dec 13 10:11 8507 Jan 04 15:56 8507 Jan 15 07:06 8507 Jan 15 07:06 8507 Jan 15 08:44 8507 Jan 16 20:28 8507 Jan 22 16:56 8507 Jan 29 05:57 8507 Feb 04 13:05 8507 Mar 02 07:11	11° 239'41 13° 239'50 26° 255'43 0° M. 27° M.32'39 0° ズ 16° ズ 06'48 23° ズ 19'10 21° ズ 02'59 18° ズ 15'19 15° ズ 33'13 15° ズ 18'49 10° ズ 22'07 13° ズ 47'05 0° G 8° G 22'35 27° G 19'29 27° G 26'36 0° ※ 1° ※42'06 9° ※47'27 20° ※17'04 0° 升 0° 介 4° Ŷ 51'24	1°29'55 1.31944 AU 27°17'10 0.61490 AU -3°26'07 3°23'45 17°53'16 0°18'54 0°18'54
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	8505 Oct 13 13:16 8505 Oct 14 23:30 8505 Oct 15 13:54 8505 Oct 20 22:35 8505 Oct 30 03:13 8505 Nov 04 00:14 8505 Nov 19 23:14 8505 Nov 23 08:56 8505 Dec 07 01:52 8505 Dec 14 02:46 8505 Dec 17 20:27 8505 Dec 20 12:24 8505 Dec 20 16:42 8505 Dec 20 16:42 8505 Dec 27 08:31 8505 Dec 27 09:03 8505 Dec 27 09:03 8505 Dec 29 17:39 8506 Jan 05 05:52 8506 Jan 05 07:17 8506 Jan 21 16:14 8506 Jan 24 12:22 8506 Jan 30 23:30 8506 Feb 03 01:06 8506 Feb 03 01:06 8506 Feb 09 02:05 8506 Feb 11 17:17 8506 Feb 18 11:51 8506 Mar 03 10:24	26° 年53'53 0° M 1° M 17'54 12° M 33'39 0° ズ 8° ズ 12'40 0° G 3° G 28'54 10° G 47'27 8° G 16'31 5° G 04'04 2° G 23'31 2° G 12'44 30° R ズ 27° ズ 07'01 27° ズ 06'31 26° ズ 39'38 0° G 0° G 03'28 25° G 06'05 0° 会 10° 会 57'57 16° 会 02'49 15° 会 52'59 25° 会 49'27 0° 升 10° 升 32'21 0° Υ	1°38'34 1.32711 AU 27°29'07 0.63444 AU -2°15'38 2°13'45 17°48'14 -0°22'17 0°21'47 1.44432 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise	8506 Sep 27 23:25 8506 Sep 28 21:09 8506 Oct 05 00:31 8506 Oct 06 12:08 8506 Oct 21 21:18 8506 Oct 23 12:38 8506 Nov 05 16:56 8506 Nov 19 13:20 8506 Nov 26 14:54 8506 Nov 30 07:32 8506 Dec 03 08:33 8506 Dec 10 17:22 8506 Dec 12 22:47 8506 Dec 12 22:47 8506 Dec 12 22:47 8506 Dec 13 10:11 8506 Dec 31 00:11 8506 Dec 31 00:11 8507 Jan 15 07:06 8507 Jan 15 07:06 8507 Jan 15 08:44 8507 Jan 15 08:44 8507 Jan 120:28 8507 Jan 22 16:56 8507 Jan 29 05:57 8507 Feb 04 13:05 8507 Mar 02 07:11 8507 Mar 11 15:29	11° 239'41 13° 239'50 26° 255'43 0° M 27° M32'39 0° ズ 16° ズ 06'48 23° ズ 19'10 21° ズ 02'59 18° ズ 15'19 15° ズ 33'13 15° ズ 18'49 10° ズ 22'07 13° ズ 47'05 0° 云 8° 322'35 27° 319'29 27° 326'36 0° ≈ 1° ≈ 42'06 9° ≈ 47'27 20° ≈ 17'04 0° 升 0° 介 4° 介'51'24 10° 介'23'31	1°29'55 1.31944 AU 27°17'10 0.61490 AU -3°26'07 3°23'45 17°53'16 0°18'54 0°18'50 1.42923 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise evening max el	8505 Oct 13 13:16 8505 Oct 14 23:30 8505 Oct 15 13:54 8505 Oct 20 22:35 8505 Oct 30 03:13 8505 Nov 04 00:14 8505 Nov 19 23:14 8505 Nov 23 08:56 8505 Dec 07 01:52 8505 Dec 14 02:46 8505 Dec 17 20:27 8505 Dec 20 12:24 8505 Dec 20 16:42 8505 Dec 20 16:42 8505 Dec 27 08:31 8505 Dec 27 08:31 8505 Dec 27 09:03 8505 Dec 27 09:03 8505 Dec 29 17:39 8506 Jan 05 05:52 8506 Jan 05 07:17 8506 Jan 21 16:14 8506 Jan 24 12:22 8506 Jan 30 23:30 8506 Feb 03 01:06 8506 Feb 03 01:06 8506 Feb 09 02:05 8506 Feb 11 17:17 8506 Feb 18 11:51 8506 Mar 03 10:24 8506 Mar 19 11:30	26° 年53'53 0° M 1° M.17'54 12° M.33'39 0° ズ 8° ズ 12'40 0° G 3° G 28'54 10° G 47'27 8° G 16'31 5° G 04'04 2° G 23'31 2° G 12'44 30° Rズ 27° ズ 06'31 26° ズ 39'38 0° G 0° G 03'28 25° G 06'05 0° ※ 10° ※57'57 16° ※02'49 15° ※52'59 25° ※49'27 0° 升 10° 升 32'21 0° Y 21° Y 10'22	1°38'34 1.32711 AU 27°29'07 0.63444 AU -2°15'38 2°13'45 17°48'14 -0°22'17 0°21'47 1.44432 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node	8506 Sep 27 23:25 8506 Sep 28 21:09 8506 Oct 05 00:31 8506 Oct 06 12:08 8506 Oct 21 21:18 8506 Oct 23 12:38 8506 Nov 05 16:56 8506 Nov 19 13:20 8506 Nov 26 14:54 8506 Nov 30 07:32 8506 Dec 03 08:33 8506 Dec 10 17:22 8506 Dec 12 22:47 8506 Dec 12 22:47 8506 Dec 14 06:06 8506 Dec 19 23:10 8506 Dec 31 00:11 8507 Jan 15 07:06 8507 Jan 15 07:06 8507 Jan 15 08:44 8507 Jan 15 08:44 8507 Jan 12 20:28 8507 Jan 22 16:56 8507 Jan 29 05:57 8507 Feb 04 13:05 8507 Mar 02 07:11 8507 Mar 11 15:29 8507 Mar 12 05:04	11° \$\times 39'41 13° \$\times 39'50 26° \$\times 55'43 0° M. 27° M.32'39 0° \$\times 16° \$\times 06'48 23° \$\times 19'10 21° \$\times 02'59 18° \$\times 15'19 15° \$\times 33'13 15° \$\times 18'49 10° \$\times 22'07 13° \$\times 14'42 10° \$\times 22'07 13° \$\times 14'705 0° \$\times 22'35 27° \$\times 19'29 27° \$\times 26'36 0° \$\times 1° \$\times 42'06 9° \$\times 47'27 20° \$\times 17'04 0° \$\times 10° \$\times 23'31 10° \$\times 21'53	1°29'55 1.31944 AU 27°17'10 0.61490 AU -3°26'07 3°23'45 17°53'16 0°18'54 0°18'50 1.42923 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	8505 Oct 13 13:16 8505 Oct 14 23:30 8505 Oct 15 13:54 8505 Oct 20 22:35 8505 Oct 30 03:13 8505 Nov 04 00:14 8505 Nov 19 23:14 8505 Nov 23 08:56 8505 Dec 07 01:52 8505 Dec 14 02:46 8505 Dec 17 20:27 8505 Dec 20 12:24 8505 Dec 20 16:42 8505 Dec 20 16:42 8505 Dec 27 08:31 8505 Dec 27 09:03 8505 Dec 27 09:03 8505 Dec 29 17:39 8506 Jan 05 05:52 8506 Jan 05 07:17 8506 Jan 21 16:14 8506 Jan 24 12:22 8506 Jan 30 23:30 8506 Feb 03 01:06 8506 Feb 03 01:06 8506 Feb 09 02:05 8506 Feb 11 17:17 8506 Feb 18 11:51 8506 Mar 03 10:24	26° 年53'53 0° M 1° M 17'54 12° M 33'39 0° ズ 8° ズ 12'40 0° G 3° G 28'54 10° G 47'27 8° G 16'31 5° G 04'04 2° G 23'31 2° G 12'44 30° R ズ 27° ズ 07'01 27° ズ 06'31 26° ズ 39'38 0° G 0° G 03'28 25° G 06'05 0° 会 10° 会 57'57 16° 会 02'49 15° 会 52'59 25° 会 49'27 0° 升 10° 升 32'21 0° Υ	1°38'34 1.32711 AU 27°29'07 0.63444 AU -2°15'38 2°13'45 17°48'14 -0°22'17 0°21'47 1.44432 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise	8506 Sep 27 23:25 8506 Sep 28 21:09 8506 Oct 05 00:31 8506 Oct 06 12:08 8506 Oct 21 21:18 8506 Oct 23 12:38 8506 Nov 05 16:56 8506 Nov 19 13:20 8506 Nov 26 14:54 8506 Nov 30 07:32 8506 Dec 03 08:33 8506 Dec 10 17:22 8506 Dec 12 22:47 8506 Dec 12 22:47 8506 Dec 12 22:47 8506 Dec 13 10:11 8506 Dec 31 00:11 8506 Dec 31 00:11 8507 Jan 15 07:06 8507 Jan 15 07:06 8507 Jan 15 08:44 8507 Jan 15 08:44 8507 Jan 120:28 8507 Jan 22 16:56 8507 Jan 29 05:57 8507 Feb 04 13:05 8507 Mar 02 07:11 8507 Mar 11 15:29	11° 239'41 13° 239'50 26° 255'43 0° M 27° M32'39 0° ズ 16° ズ 06'48 23° ズ 19'10 21° ズ 02'59 18° ズ 15'19 15° ズ 33'13 15° ズ 18'49 10° ズ 22'07 13° ズ 47'05 0° 云 8° 322'35 27° 319'29 27° 326'36 0° ≈ 1° ≈ 42'06 9° ≈ 47'27 20° ≈ 17'04 0° 升 0° 介 4° 介'51'24 10° 介'23'31	1°29'55 1.31944 AU 27°17'10 0.61490 AU -3°26'07 3°23'45 17°53'16 0°18'54 0°18'50 1.42923 AU 21°58'38

minimum elong	8507 Mar 21 09:18	2° Y 21'37	2027114	inferior conj	8508 Mar 04 20:10	16° ¥ 15'42	2002107
min. Earth dist.	8507 Mar 21 11:48	2°Υ12'56	0.68409 AU	minimum elong	8508 Mar 04 17:58	16° X 1342	2°02'28
IIIII. Eartii dist.	8507 Mar 23 02:32	2 1 12 30 30° ₹	0.06409 AU	min. Earth dist.	8508 Mar 04 08:34	16° X 55'40	0.68385 AU
morning rise	8507 Mar 26 14:37	26°) €02'41		morning rise	8508 Mar 10 01:21	10° X 09'43	0.06363 AU
direct	8507 Mar 31 11:37	20 \(\)(0241) 23°\(\)(57'37)		direct	8508 Mar 14 08:29	8° \(\) 27'01	
	8507 Apr 10 03:05	23 X 3/3/ 29° X 38'10	22027140		8508 Mar 22 19:11	8 X 2701 13° ¥ 18'37	21904'22
morning max el		29 χ3810 0°Υ	22 27 48	morning max el desc. node		25° H 26'44	21 04 33
daga mada	8507 Apr 10 11:41	6° Υ '07'52		desc. node	8508 Apr 01 17:14	23 π2644 0°Υ	
desc. node	8507 Apr 15 20:18	0° 8		marning sat	8508 Apr 04 23:25	0 γ 26° Υ 13'42	
	8507 May 02 21:04			morning set	8508 Apr 22 10:38		
morning set	8507 May 13 20:46	17° 8 15'36	1 40644 ATT	E 41 E 4	8508 Apr 24 20:01	0°8	1 42/02 411
max. Earth dist.	8507 May 18 19:54	25° 8 30'41	1.40644 AU	max. Earth dist.	8508 Apr 29 23:25	8°01617	1.42692 AU
	8507 May 21 10:52	Π °0			0500 M 07 02 47	200 🗸 10110	2004101
	050734 26 14 56	00 T 06152	1040105	superior conj	8508 May 07 02:47	20° 8 10'19	
superior conj	8507 May 26 14:56	9° Ⅱ 06'53		minimum elong	8508 May 07 07:32	20° 8 30'35	2°03'54
minimum elong	8507 May 26 20:47	9° ∏ 33'14	1°41'5/		8508 May 12 18:56	0°П	
evening rise	8507 Jun 05 18:35	27° I 55'09		evening rise	8508 May 18 17:38	10° Ⅲ 35′29	
	8507 Jun 06 21:09	0°©		asc. node	8508 May 25 01:02	21° ∏ 47'27	
asc. node	8507 Jun 08 03:58	2°524'08			8508 May 30 01:56	0°©	
evening max el	8507 Jun 21 20:16	23° © 39'01	18°21'12	evening max el	8508 Jun 04 07:38	6° © 37'28	18°06'01
retrograde	8507 Jun 29 05:28	27° © 20'59		retrograde	8508 Jun 10 23:34	10° © 01'47	
evening set	8507 Jul 01 11:03	27° © 01'32		evening set	8508 Jun 13 12:41	9° © 32'02	
inferior conj	8507 Jul 08 20:49	22° © 24'31	1°08'57	inferior conj	8508 Jun 20 05:05	4° © 35'01	2°16'16
minimum elong	8507 Jul 08 23:03	22° © 19'54	1°07'59	minimum elong	8508 Jun 20 08:06	4° © 27'46	2°15'15
min. Earth dist.	8507 Jul 12 06:07	19° © 37'44	0.58567 AU	min. Earth dist.	8508 Jun 23 10:14	1° © 31'26	0.60804 AU
desc. node	8507 Jul 12 19:43	19° © 11'32			8508 Jun 25 04:45	30°Ŗ Ⅱ	
morning rise	8507 Jul 16 07:44	16° © 53'48		morning rise	8508 Jun 27 00:59	28° Ⅲ 39'11	
direct	8507 Jul 22 10:59	15° 5 014'04		desc. node	8508 Jun 28 16:46	27° Ⅱ 41'58	
morning max el	8507 Aug 05 20:20	22° © 58'20	27°15'24	direct	8508 Jul 03 15:33	26° Ⅱ 28'49	
	8507 Aug 12 02:52	$0^{\circ}\Omega$			8508 Jul 12 18:28	0 \circ \odot	
	8507 Aug 30 21:55	0° m p		morning max el	8508 Jul 17 22:43	4° © 27'28	27°51'57
asc. node	8507 Sep 04 03:30	8° Mp 27′52			8508 Aug 05 21:55	$\mathfrak{O}^{\circ}\mathfrak{O}$	
morning set	8507 Sep 05 12:45	11° m 21'34		morning set	8508 Aug 19 17:09	25° Ω 42'05	
				asc. node	8508 Aug 21 00:27	28° Ω 25'23	
superior conj	8507 Sep 12 13:05	26° Mp 39'15	1°16'17		8508 Aug 21 18:22	0° m	
minimum elong	8507 Sep 12 10:52	26° Mp 26'55	1°15'57	max. Earth dist.	8508 Aug 25 16:29	8° m 28′52	1.31786 AU
max. Earth dist.	8507 Sep 12 07:18	26° Mp 07'10	1.31633 AU				
	8507 Sep 14 01:14	0∘ ⊽			0500 4 27 00 01	11° Mp 22'24	0057126
	0507 bcp 14 01.14			superior conj	8508 Aug 27 00:01	11 111/2224	0°57'36
evening rise	8507 Sep 14 01:14 8507 Sep 19 07:45	11° ≏ 30'20		minimum elong	•	11° my 22 24 11° my 10'36	0°57'09
evening rise	8507 Sep 19 07:45			minimum elong	8508 Aug 27 00:01 8508 Aug 26 21:53 8508 Sep 02 18:10	~	
evening rise desc. node	•	11° ≏ 30′20			8508 Aug 26 21:53 8508 Sep 02 18:10	11° mp 10'36	
-	8507 Sep 19 07:45 8507 Sep 28 16:38	11° ≏ 30′20 0° ™	26°31'13	minimum elong	8508 Aug 26 21:53	11° m/10'36 26° m/11'23	
desc. node	8507 Sep 19 07:45 8507 Sep 28 16:38 8507 Oct 08 18:26 8507 Oct 18 18:13	11° ⊆ 30′20 0°M 16°M08′10	26°31'13	minimum elong evening rise	8508 Aug 26 21:53 8508 Sep 02 18:10 8508 Sep 04 13:18 8508 Sep 21 18:23	11° M 10'36 26° M 11'23 0° <u>0</u>	
desc. node evening max el	8507 Sep 19 07:45 8507 Sep 28 16:38 8507 Oct 08 18:26	11° 2 30'20 0° M 16° M 08'10 27° M 56'40	26°31'13	minimum elong evening rise desc. node	8508 Aug 26 21:53 8508 Sep 02 18:10 8508 Sep 04 13:18 8508 Sep 21 18:23 8508 Sep 24 15:32	11° m 10'36 26° m 11'23 0° <u>a</u> 0° m 3° m 41'31	0°57'09
desc. node evening max el retrograde	8507 Sep 19 07:45 8507 Sep 28 16:38 8507 Oct 08 18:26 8507 Oct 18 18:13 8507 Oct 21 02:05 8507 Nov 01 16:09	11° 2 30′20 0° M 16° M 08′10 27° M 56′40 0° x 5° x 03′13	26°31'13	minimum elong evening rise desc. node evening max el	8508 Aug 26 21:53 8508 Sep 02 18:10 8508 Sep 04 13:18 8508 Sep 21 18:23 8508 Sep 24 15:32 8508 Sep 29 11:20	11° ነው 10'36 26° ነው 11'23 0° <u>ፍ</u> 0° ነሌ 3° ነሌ 41'31 8° ነሌ 55'16	0°57'09
desc. node evening max el retrograde evening set	8507 Sep 19 07:45 8507 Sep 28 16:38 8507 Oct 08 18:26 8507 Oct 18 18:13 8507 Oct 21 02:05 8507 Nov 01 16:09 8507 Nov 08 08:58	11° 2 30'20 0° M 16° M 08'10 27° M 56'40 0° √ 5° √ 03'13 3° √ 12'10		minimum elong evening rise desc. node evening max el retrograde	8508 Aug 26 21:53 8508 Sep 02 18:10 8508 Sep 04 13:18 8508 Sep 21 18:23 8508 Sep 24 15:32 8508 Sep 29 11:20 8508 Oct 13 08:44	11° ነ ነ 10'36 26° ነ 11'23 0° <u>ቤ</u> 0° ነ ቤ 3° ነ ቤ41'31 8° ነ ቤ55'16 15° ነ ቤ55'58	0°57'09
desc. node evening max el retrograde	8507 Sep 19 07:45 8507 Sep 28 16:38 8507 Oct 08 18:26 8507 Oct 18 18:13 8507 Oct 21 02:05 8507 Nov 01 16:09 8507 Nov 08 08:58 8507 Nov 12 07:43	11° 2 30'20 0° M 16° M 08'10 27° M 56'40 0° x ⁷ 5° x ⁷ 03'13 3° x ⁷ 12'10 0° x ⁷ 37'18	26°31'13 0.59402 AU	minimum elong evening rise desc. node evening max el retrograde evening set	8508 Aug 26 21:53 8508 Sep 02 18:10 8508 Sep 04 13:18 8508 Sep 21 18:23 8508 Sep 24 15:32 8508 Sep 29 11:20 8508 Oct 13 08:44 8508 Oct 19 04:08	11° ነው 10'36 26° ነው 11'23 0° <u>ፍ</u> 0° ነሌ 3° ነሌ 41'31 8° ነሌ 55'16	0°57'09 25°14'43
desc. node evening max el retrograde evening set min. Earth dist.	8507 Sep 19 07:45 8507 Sep 28 16:38 8507 Oct 08 18:26 8507 Oct 18 18:13 8507 Oct 21 02:05 8507 Nov 01 16:09 8507 Nov 08 08:58 8507 Nov 12 07:43 8507 Nov 13 03:26	11° 2 30'20 0° M . 16° M .08'10 27° M .56'40 0° √ 5° √ 03'13 3° √ 12'10 0° √ 33'18 30°R M .	0.59402 AU	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist.	8508 Aug 26 21:53 8508 Sep 02 18:10 8508 Sep 04 13:18 8508 Sep 21 18:23 8508 Sep 24 15:32 8508 Sep 29 11:20 8508 Oct 13 08:44 8508 Oct 19 04:08 8508 Oct 23 23:06	11° ነ 10'36 26° ነ 11'23 0°	0°57'09 25°14'43 0.57391 AU
desc. node evening max el retrograde evening set min. Earth dist. inferior conj	8507 Sep 19 07:45 8507 Sep 28 16:38 8507 Oct 08 18:26 8507 Oct 18 18:13 8507 Oct 21 02:05 8507 Nov 01 16:09 8507 Nov 08 08:58 8507 Nov 12 07:43 8507 Nov 13 03:26 8507 Nov 15 12:32	11° \$\sim 30'20 0° \$\mathbb{m}\$. 16° \$\mathbb{m}\$.08'10 27° \$\mathbb{m}\$.56'40 0° \$\stacklet{\pi}\$ 5° \$\stacklet{\pi}\$03'13 3° \$\stacklet{\pi}\$12'10 0° \$\stacklet{\pi}\$37'18 30° \$\mathbb{m}\$\$\taklet\$28° \$\mathbb{m}\$.08'39	0.59402 AU -4°32'03	desc. node evening max el retrograde evening set min. Earth dist. inferior conj	8508 Aug 26 21:53 8508 Sep 02 18:10 8508 Sep 04 13:18 8508 Sep 21 18:23 8508 Sep 24 15:32 8508 Sep 29 11:20 8508 Oct 13 08:44 8508 Oct 19 04:08 8508 Oct 23 23:06 8508 Oct 26 21:12	11° ነ 10'36 26° ነ 11'23 0°	0°57'09 25°14'43 0.57391 AU -5°21'10
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	8507 Sep 19 07:45 8507 Sep 28 16:38 8507 Oct 08 18:26 8507 Oct 18 18:13 8507 Oct 21 02:05 8507 Nov 01 16:09 8507 Nov 08 08:58 8507 Nov 12 07:43 8507 Nov 13 03:26	11° \$\sim 30'20 0° \$\mathbb{n}\$. 16° \$\mathbb{n}\$.08'10 27° \$\mathbb{n}\$.56'40 0° \$\stacklet{\pi}\$. 5° \$\stacklet{\pi}\$.03'13 3° \$\stacklet{\pi}\$.12'10 0° \$\stacklet{\pi}\$.37'18 30° \$\mathbb{n}\$. 28° \$\mathbb{n}\$.08'39 27° \$\mathbb{n}\$.54'22	0.59402 AU -4°32'03	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	8508 Aug 26 21:53 8508 Sep 02 18:10 8508 Sep 04 13:18 8508 Sep 21 18:23 8508 Sep 24 15:32 8508 Sep 29 11:20 8508 Oct 13 08:44 8508 Oct 19 04:08 8508 Oct 23 23:06	11° m 10'36 26° m 11'23 0° <u>a</u> 0° m 3° m 41'31 8° m 55'16 15° m 55'58 14° m 38'48 11° m 58'45 10° m 00'44	0°57'09 25°14'43 0.57391 AU -5°21'10
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	8507 Sep 19 07:45 8507 Sep 28 16:38 8507 Oct 08 18:26 8507 Oct 18 18:13 8507 Oct 21 02:05 8507 Nov 01 16:09 8507 Nov 08 08:58 8507 Nov 12 07:43 8507 Nov 13 03:26 8507 Nov 15 12:32 8507 Nov 15 19:54 8507 Nov 23 09:13	11° \$\sim 30'20 0° \$\mathbb{M}\$. 16° \$\mathbb{M}\$.08'10 27° \$\mathbb{M}\$.56'40 0° \$\struct \sim 703'13 3° \$\struct 12'10 0° \$\struct 37'18 30° \text{R}\tau 28° \$\mathbb{M}\$.08'39 27° \$\mathbb{M}\$.54'22 23° \$\mathbb{M}\$.33'07	0.59402 AU -4°32'03	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	8508 Aug 26 21:53 8508 Sep 02 18:10 8508 Sep 04 13:18 8508 Sep 21 18:23 8508 Sep 24 15:32 8508 Sep 29 11:20 8508 Oct 13 08:44 8508 Oct 19 04:08 8508 Oct 23 23:06 8508 Oct 26 21:12 8508 Oct 27 02:14 8508 Nov 04 02:39	11° m 10'36 26° m 11'23 0° n 0° m 3° m 41'31 8° m 55'16 15° m 55'58 14° m 38'48 11° m 58'45 10° m 00'44 9° m 52'15 5° m 48'04	0°57'09 25°14'43 0.57391 AU -5°21'10
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	8507 Sep 19 07:45 8507 Sep 28 16:38 8507 Oct 08 18:26 8507 Oct 18 18:13 8507 Oct 21 02:05 8507 Nov 01 16:09 8507 Nov 08 08:58 8507 Nov 12 07:43 8507 Nov 13 03:26 8507 Nov 15 12:32 8507 Nov 15 19:54 8507 Nov 23 09:13 8507 Nov 25 14:36	11° \$\sim 30'20 0° \$\mathbb{M}\$. 16° \$\mathbb{M}\$.08'10 27° \$\mathbb{M}\$.56'40 0° \$\mathscr{A}\$ 5° \$\mathscr{A}\$'03'13 3° \$\mathscr{A}\$'12'10 0° \$\mathscr{A}\$'37'18 30° \$\mathscr{M}\$\$\mathscr{M}\$\$\mathscr{A}\$\$\mathscr{A}\$'22 23° \$\mathscr{M}\$.54'22 23° \$\mathscr{M}\$.33'07 23° \$\mathscr{M}\$\$	0.59402 AU -4°32'03	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	8508 Aug 26 21:53 8508 Sep 02 18:10 8508 Sep 04 13:18 8508 Sep 21 18:23 8508 Sep 24 15:32 8508 Sep 29 11:20 8508 Oct 13 08:44 8508 Oct 19 04:08 8508 Oct 23 23:06 8508 Oct 26 21:12 8508 Oct 27 02:14 8508 Nov 04 02:39 8508 Nov 06 12:40	11° \$\mathbf{n}\$ 10'36 26° \$\mathbf{m}\$ 11'23 0° \$\mathbf{n}\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 3° \$\mathbf{m}\$ 41'31 8° \$\mathbf{m}\$ 55'16 15° \$\mathbf{m}\$ 55'58 14° \$\mathbf{m}\$ 38'48 11° \$\mathbf{m}\$ 58'45 10° \$\mathbf{m}\$ 00'44 9° \$\mathbf{m}\$ 52'15 5° \$\mathbf{m}\$ 48'04 5° \$\mathbf{m}\$ 30'51	0°57'09 25°14'43 0.57391 AU -5°21'10 5°20'24
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	8507 Sep 19 07:45 8507 Sep 28 16:38 8507 Oct 08 18:26 8507 Oct 18 18:13 8507 Oct 21 02:05 8507 Nov 01 16:09 8507 Nov 08 08:58 8507 Nov 12 07:43 8507 Nov 13 03:26 8507 Nov 15 12:32 8507 Nov 15 19:54 8507 Nov 23 09:13 8507 Nov 25 14:36 8507 Dec 01 03:09	11° \$\sim 30'20 0° \$\mathbb{M}\$. 16° \$\mathbb{M}\$.08'10 27° \$\mathbb{M}\$.56'40 0° \$\nall \tau \tau 30'13 3° \$\nall 12'10 0° \$\nall 37'18 30° \$\mathbb{M}\$.08'39 27° \$\mathbb{M}\$.54'22 23° \$\mathbb{M}\$.39'07 23° \$\mathbb{M}\$.15'31 25° \$\mathbb{M}\$.10'42	0.59402 AU -4°32'03 4°30'03	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	8508 Aug 26 21:53 8508 Sep 02 18:10 8508 Sep 04 13:18 8508 Sep 21 18:23 8508 Sep 24 15:32 8508 Sep 29 11:20 8508 Oct 13 08:44 8508 Oct 19 04:08 8508 Oct 23 23:06 8508 Oct 26 21:12 8508 Oct 27 02:14 8508 Nov 04 02:39 8508 Nov 06 12:40 8508 Nov 15 12:15	11° m 10'36 26° m 11'23 0° n 0° m 3° m 41'31 8° m 55'16 15° m 55'58 14° m 38'48 11° m 58'45 10° m 00'44 9° m 52'15 5° m 48'04 5° m 30'51 9° m 48'13	0°57'09 25°14'43 0.57391 AU -5°21'10 5°20'24
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	8507 Sep 19 07:45 8507 Sep 28 16:38 8507 Oct 08 18:26 8507 Oct 18 18:13 8507 Oct 21 02:05 8507 Nov 01 16:09 8507 Nov 08 08:58 8507 Nov 12 07:43 8507 Nov 13 03:26 8507 Nov 15 12:32 8507 Nov 15 19:54 8507 Nov 23 09:13 8507 Nov 25 14:36 8507 Dec 01 03:09 8507 Dec 03 10:04	11° \$\sim 30'20 0° \$\mathbb{M}\$. 16° \$\mathbb{M}\$.08'10 27° \$\mathbb{M}\$.56'40 0° \$\nall 5' \text{30'3'13} 3° \$\nall 12'10 0° \$\nall 37'18 30° \$\mathbb{M}\$. 28° \$\mathbb{M}\$.08'39 27° \$\mathbb{M}\$.54'22 23° \$\mathbb{M}\$.31'07 23° \$\mathbb{M}\$.15'31 25° \$\mathbb{M}\$.10'42 27° \$\mathbb{M}\$.05'27	0.59402 AU -4°32'03 4°30'03	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	8508 Aug 26 21:53 8508 Sep 02 18:10 8508 Sep 04 13:18 8508 Sep 21 18:23 8508 Sep 24 15:32 8508 Sep 29 11:20 8508 Oct 13 08:44 8508 Oct 19 04:08 8508 Oct 23 23:06 8508 Oct 26 21:12 8508 Oct 27 02:14 8508 Nov 04 02:39 8508 Nov 06 12:40 8508 Nov 15 12:15 8508 Nov 17 00:09	11° m 10'36 26° m 11'23 0° n 0° m 3° m 41'31 8° m 55'16 15° m 55'58 14° m 38'48 11° m 58'45 10° m 00'44 9° m 52'15 5° m 48'04 5° m 30'51 9° m 48'13 11° m 20'51	0°57'09 25°14'43 0.57391 AU -5°21'10 5°20'24
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	8507 Sep 19 07:45 8507 Sep 28 16:38 8507 Oct 08 18:26 8507 Oct 18 18:13 8507 Oct 21 02:05 8507 Nov 01 16:09 8507 Nov 08 08:58 8507 Nov 12 07:43 8507 Nov 13 03:26 8507 Nov 15 12:32 8507 Nov 15 19:54 8507 Nov 23 09:13 8507 Nov 25 14:36 8507 Dec 01 03:09 8507 Dec 03 10:04 8507 Dec 06 00:39	11° \$\sim 30'20 0° \$\mathbb{n}\$. 16° \$\mathbb{n}\$.08'10 27° \$\mathbb{n}\$.56'40 0° \$\stacking \$\sta	0.59402 AU -4°32'03 4°30'03	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	8508 Aug 26 21:53 8508 Sep 02 18:10 8508 Sep 04 13:18 8508 Sep 21 18:23 8508 Sep 24 15:32 8508 Sep 29 11:20 8508 Oct 13 08:44 8508 Oct 19 04:08 8508 Oct 23 23:06 8508 Oct 26 21:12 8508 Oct 27 02:14 8508 Nov 04 02:39 8508 Nov 06 12:40 8508 Nov 15 12:15 8508 Nov 17 00:09 8508 Nov 28 19:23	11° m 10'36 26° m 11'23 0° n 0° m 3° m 41'31 8° m 55'16 15° m 55'58 14° m 38'48 11° m 58'45 10° m 00'44 9° m 52'15 5° m 48'04 5° m 30'51 9° m 48'13 11° m 20'51 0° 7	0°57'09 25°14'43 0.57391 AU -5°21'10 5°20'24
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	8507 Sep 19 07:45 8507 Sep 28 16:38 8507 Oct 08 18:26 8507 Oct 18 18:13 8507 Oct 21 02:05 8507 Nov 01 16:09 8507 Nov 08 08:58 8507 Nov 12 07:43 8507 Nov 13 03:26 8507 Nov 15 12:32 8507 Nov 15 19:54 8507 Nov 23 09:13 8507 Nov 25 14:36 8507 Dec 01 03:09 8507 Dec 03 10:04 8507 Dec 06 00:39 8507 Dec 19 05:37	11° \$\sim 30'20 0° \$\mathbb{n}\$. 16° \$\mathbb{n}\$.08'10 27° \$\mathbb{n}\$.56'40 0° \$\stacking \$\sta	0.59402 AU -4°32'03 4°30'03	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	8508 Aug 26 21:53 8508 Sep 02 18:10 8508 Sep 04 13:18 8508 Sep 21 18:23 8508 Sep 24 15:32 8508 Sep 29 11:20 8508 Oct 13 08:44 8508 Oct 19 04:08 8508 Oct 23 23:06 8508 Oct 26 21:12 8508 Oct 27 02:14 8508 Nov 04 02:39 8508 Nov 06 12:40 8508 Nov 15 12:15 8508 Nov 17 00:09	11° m 10'36 26° m 11'23 0° n 0° m 3° m 41'31 8° m 55'16 15° m 55'58 14° m 38'48 11° m 58'45 10° m 00'44 9° m 52'15 5° m 48'04 5° m 30'51 9° m 48'13 11° m 20'51	0°57'09 25°14'43 0.57391 AU -5°21'10 5°20'24
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	8507 Sep 19 07:45 8507 Sep 28 16:38 8507 Oct 08 18:26 8507 Oct 18 18:13 8507 Oct 21 02:05 8507 Nov 01 16:09 8507 Nov 08 08:58 8507 Nov 12 07:43 8507 Nov 13 03:26 8507 Nov 15 12:32 8507 Nov 15 19:54 8507 Nov 23 09:13 8507 Nov 25 14:36 8507 Dec 01 03:09 8507 Dec 03 10:04 8507 Dec 06 00:39	11° \$\sim 30'20 0° \$\mathbb{n}\$. 16° \$\mathbb{n}\$.08'10 27° \$\mathbb{n}\$.56'40 0° \$\stacking \$\sta	0.59402 AU -4°32'03 4°30'03	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	8508 Aug 26 21:53 8508 Sep 02 18:10 8508 Sep 04 13:18 8508 Sep 21 18:23 8508 Sep 24 15:32 8508 Sep 29 11:20 8508 Oct 13 08:44 8508 Oct 19 04:08 8508 Oct 23 23:06 8508 Oct 26 21:12 8508 Oct 27 02:14 8508 Nov 04 02:39 8508 Nov 06 12:40 8508 Nov 15 12:15 8508 Nov 17 00:09 8508 Nov 28 19:23 8508 Dec 02 04:54	11° m 10'36 26° m 11'23 0° n 0° m 3° m 41'31 8° m 55'16 15° m 55'58 14° m 38'48 11° m 58'45 10° m 00'44 9° m 52'15 5° m 48'04 5° m 30'51 9° m 48'13 11° m 20'51 0° x' 6° x' 37'42	0°57'09 25°14'43 0.57391 AU -5°21'10 5°20'24 19°03'39
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	8507 Sep 19 07:45 8507 Sep 28 16:38 8507 Oct 08 18:26 8507 Oct 18 18:13 8507 Oct 21 02:05 8507 Nov 01 16:09 8507 Nov 08 08:58 8507 Nov 12 07:43 8507 Nov 13 03:26 8507 Nov 15 12:32 8507 Nov 15 19:54 8507 Nov 23 09:13 8507 Nov 25 14:36 8507 Dec 01 03:09 8507 Dec 03 10:04 8507 Dec 06 00:39 8507 Dec 19 05:37 8507 Dec 23 07:05	11° \$\sim 30'20 0° \$\mathbb{n}\$ 16° \$\mathbb{n} 08'10 27° \$\mathbb{n} 56'40 0° \$\mathbb{n}\$ 5° \$\mathbb{n} 03'13 3° \$\mathbb{n} 12'10 0° \$\mathbb{n} 37'18 30° \$\mathbb{n}\$ 28° \$\mathbb{n} 08'39 27° \$\mathbb{n} 54'22 23° \$\mathbb{n} 15'31 25° \$\mathbb{n} 10'42 27° \$\mathbb{n} 05'27 0° \$\mathbb{n}\$ 22° \$\mathbb{n} 17'20 0° \$\mathbb{n}\$	0.59402 AU -4°32'03 4°30'03	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	8508 Aug 26 21:53 8508 Sep 02 18:10 8508 Sep 04 13:18 8508 Sep 21 18:23 8508 Sep 24 15:32 8508 Sep 29 11:20 8508 Oct 13 08:44 8508 Oct 19 04:08 8508 Oct 23 23:06 8508 Oct 26 21:12 8508 Oct 27 02:14 8508 Nov 04 02:39 8508 Nov 06 12:40 8508 Nov 15 12:15 8508 Nov 17 00:09 8508 Nov 28 19:23 8508 Dec 02 04:54	11° m 10'36 26° m 11'23 0° n 0° m 3° m.41'31 8° m.55'16 15° m.55'58 14° m.38'48 11° m.58'45 10° m.00'44 9° m.52'15 5° m.48'04 5° m.30'51 9° m.48'13 11° m.20'51 0° 🗷 6° 🗷 37'42	0°57'09 25°14'43 0.57391 AU -5°21'10 5°20'24 19°03'39
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	8507 Sep 19 07:45 8507 Sep 28 16:38 8507 Oct 08 18:26 8507 Oct 18 18:13 8507 Oct 21 02:05 8507 Nov 01 16:09 8507 Nov 08 08:58 8507 Nov 12 07:43 8507 Nov 13 03:26 8507 Nov 15 12:32 8507 Nov 15 19:54 8507 Nov 23 09:13 8507 Nov 25 14:36 8507 Dec 01 03:09 8507 Dec 03 10:04 8507 Dec 04 00:39 8507 Dec 19 05:37 8507 Dec 23 07:05	11° \$\sim 30'20 0° \$\mathbb{n}\$. 16° \$\mathbb{n}.08'10 27° \$\mathbb{n}.56'40 0° \$\mathbb{n}\$. 5° \$\mathbb{n}.03'13 3° \$\mathbb{n}.12'10 0° \$\mathbb{n}.37'18 30° \$\mathbb{n}. 28° \$\mathbb{n}.08'39 27° \$\mathbb{n}.54'22 23° \$\mathbb{n}.33'07 23° \$\mathbb{n}.15'31 25° \$\mathbb{n}.10'42 27° \$\mathbb{n}.05'27 0° \$\mathbb{n}\$. 22° \$\mathbb{n}.17'20 0° \$\mathbb{n}\$. 9° \$\mathbb{G}.42'42	0.59402 AU -4°32'03 4°30'03 18°17'50	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	8508 Aug 26 21:53 8508 Sep 02 18:10 8508 Sep 04 13:18 8508 Sep 21 18:23 8508 Sep 24 15:32 8508 Sep 29 11:20 8508 Oct 13 08:44 8508 Oct 19 04:08 8508 Oct 23 23:06 8508 Oct 26 21:12 8508 Oct 27 02:14 8508 Nov 04 02:39 8508 Nov 06 12:40 8508 Nov 15 12:15 8508 Nov 17 00:09 8508 Nov 28 19:23 8508 Dec 02 04:54	11° m 10'36 26° m 11'23 0° n 0° m 3° m.41'31 8° m.55'16 15° m.55'58 14° m.38'48 11° m.58'45 10° m.00'44 9° m.52'15 5° m.48'04 5° m.30'51 9° m.48'13 11° m.20'51 0° 🗷 6° 🗷 37'42	0°57'09 25°14'43 0.57391 AU -5°21'10 5°20'24 19°03'39
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	8507 Sep 19 07:45 8507 Sep 28 16:38 8507 Oct 08 18:26 8507 Oct 18 18:13 8507 Oct 21 02:05 8507 Nov 01 16:09 8507 Nov 12 07:43 8507 Nov 13 03:26 8507 Nov 15 12:32 8507 Nov 15 19:54 8507 Nov 23 09:13 8507 Nov 25 14:36 8507 Dec 01 03:09 8507 Dec 03 10:04 8507 Dec 04 00:39 8507 Dec 23 07:05 8507 Dec 28 12:30 8507 Dec 28 12:30 8507 Dec 28 15:46	11° \$\sim 30'20 0° \$\mathbb{M}\$. 16° \$\mathbb{M}\$.08'10 27° \$\mathbb{M}\$.56'40 0° \$\nall 50' \text{37'18} 30° \$\mathbb{M}\$.12'10 0° \$\nall 37'18 30° \$\mathbb{M}\$.08'39 27° \$\mathbb{M}\$.54'22 23° \$\mathbb{M}\$.15'31 25° \$\mathbb{M}\$.10'42 27° \$\mathbb{M}\$.05'27 0° \$\nall 7'20 0° \$\text{37'17'20} 0° \$\text{35'7'38}	0.59402 AU -4°32'03 4°30'03	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	8508 Aug 26 21:53 8508 Sep 02 18:10 8508 Sep 04 13:18 8508 Sep 21 18:23 8508 Sep 24 15:32 8508 Sep 29 11:20 8508 Oct 13 08:44 8508 Oct 19 04:08 8508 Oct 23 23:06 8508 Oct 26 21:12 8508 Oct 27 02:14 8508 Nov 04 02:39 8508 Nov 06 12:40 8508 Nov 15 12:15 8508 Nov 17 00:09 8508 Nov 28 19:23 8508 Dec 02 04:54 8508 Dec 10 12:21 8508 Dec 10 15:30 8508 Dec 14 05:41	11° \m 10'36 26° \m 11'23 0° \max 0° \max 0° \max 0° \max 0° \max 18° \m 455'16 15° \m 55'58 14° \m 38'48 11° \m 58'45 10° \max 10° \m 20'51 5° \m 48'04 5° \m 30'51 9° \m 48'13 11° \m 20'51 0° \max 6° \max 37'42 22° \max 22° \max 58'11 23° \max 13'18	0°57'09 25°14'43 0.57391 AU -5°21'10 5°20'24 19°03'39 1°16'31 1°16'21
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	8507 Sep 19 07:45 8507 Sep 28 16:38 8507 Oct 08 18:26 8507 Oct 18 18:13 8507 Oct 21 02:05 8507 Nov 01 16:09 8507 Nov 12 07:43 8507 Nov 13 03:26 8507 Nov 15 12:32 8507 Nov 15 19:54 8507 Nov 23 09:13 8507 Nov 25 14:36 8507 Dec 01 03:09 8507 Dec 03 10:04 8507 Dec 04 00:39 8507 Dec 23 07:05 8507 Dec 28 12:30 8507 Dec 28 12:30 8507 Dec 28 15:46 8508 Jan 04 17:26	11° \$\sim 30'20 0° \$\mathbb{m}\$. 16° \$\mathbb{m}\$.08'10 27° \$\mathbb{m}\$.56'40 0° \$\mathscr{A}\$ 5° \$\mathscr{A}'03'13 3° \$\mathscr{A}'12'10 0° \$\mathscr{A}'37'18 30° \$\mathscr{m}\$.08'39 27° \$\mathscr{m}\$.54'22 23° \$\mathscr{m}\$.05'27 23° \$\mathscr{m}\$.15'31 25° \$\mathscr{m}\$.10'42 27° \$\mathscr{m}\$.05'27 0° \$\mathscr{A}'\$ 22° \$\mathscr{A}'17'20 0° \$\mathscr{G}\$ 9° \$\mathscr{G}\$42'42 9° \$\mathscr{G}\$57'38 22° \$\mathscr{G}\$26'44	0.59402 AU -4°32'03 4°30'03 18°17'50 0°52'14 0°51'58	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong morning set	8508 Aug 26 21:53 8508 Sep 02 18:10 8508 Sep 02 18:18 8508 Sep 04 13:18 8508 Sep 21 18:23 8508 Sep 24 15:32 8508 Sep 29 11:20 8508 Oct 13 08:44 8508 Oct 19 04:08 8508 Oct 23 23:06 8508 Oct 26 21:12 8508 Oct 27 02:14 8508 Nov 04 02:39 8508 Nov 06 12:40 8508 Nov 15 12:15 8508 Nov 17 00:09 8508 Nov 28 19:23 8508 Dec 02 04:54 8508 Dec 10 12:21 8508 Dec 10 15:30 8508 Dec 14 05:41 8508 Dec 17 08:33	11° \mathbf{n} 10'36 26° \mathbf{m} 11'23 0° \mathbf{n} 0° \mathbf{m} 3° \mathbf{m} 41'31 8° \mathbf{m} 55'16 15° \mathbf{m} 55'58 14° \mathbf{m} 38'48 11° \mathbf{m} 58'45 10° \mathbf{m} 00'44 9° \mathbf{m} 52'15 5° \mathbf{m} 48'04 5° \mathbf{m} 30'51 9° \mathbf{m} 48'13 11° \mathbf{m} 20'51 0° \mathbf{n} 6° \mathbf{n} 37'42 22° \mathbf{n} 58'11 23° \mathbf{n} 13'18 0° \mathbf{n} 5° \mathbf{n} 41'32	0°57'09 25°14'43 0.57391 AU -5°21'10 5°20'24 19°03'39
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	8507 Sep 19 07:45 8507 Sep 28 16:38 8507 Oct 08 18:26 8507 Oct 18 18:13 8507 Oct 21 02:05 8507 Nov 01 16:09 8507 Nov 08 08:58 8507 Nov 12 07:43 8507 Nov 13 03:26 8507 Nov 15 12:32 8507 Nov 15 19:54 8507 Nov 23 09:13 8507 Nov 25 14:36 8507 Dec 01 03:09 8507 Dec 03 10:04 8507 Dec 04 00:39 8507 Dec 19 05:37 8507 Dec 28 12:30 8507 Dec 28 15:46 8508 Jan 04 17:26 8508 Jan 05 02:45	11°至30'20 0°M 16°M.08'10 27°M.56'40 0°ズ 5°ズ03'13 3°ズ12'10 0°ズ37'18 30°RM 28°M.08'39 27°M.54'22 23°M.33'07 23°M.15'31 25°M.10'42 27°M.05'27 0°ズ 22°ズ17'20 0°उ 9°उ42'42 9°उ57'38 22°उ26'44 23°उ06'31	0.59402 AU -4°32'03 4°30'03 18°17'50	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	8508 Aug 26 21:53 8508 Sep 02 18:10 8508 Sep 02 18:18 8508 Sep 04 13:18 8508 Sep 21 18:23 8508 Sep 24 15:32 8508 Sep 29 11:20 8508 Oct 13 08:44 8508 Oct 19 04:08 8508 Oct 23 23:06 8508 Oct 26 21:12 8508 Oct 27 02:14 8508 Nov 04 02:39 8508 Nov 06 12:40 8508 Nov 15 12:15 8508 Nov 17 00:09 8508 Nov 28 19:23 8508 Dec 02 04:54 8508 Dec 10 12:21 8508 Dec 10 15:30 8508 Dec 14 05:41 8508 Dec 17 08:33 8508 Dec 21 04:07	11° \$\mathbf{n}\$ 10'36 26° \$\mathbf{n}\$ 11'23 0° \(\omega\) 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 3° \$\mathbf{m}\$ 41'31 8° \$\mathbf{m}\$ 55'16 15° \$\mathbf{m}\$ 55'58 14° \$\mathbf{m}\$ 38'48 11° \$\mathbf{m}\$ 52'15 5° \$\mathbf{m}\$ 48'04 5° \$\mathbf{m}\$ 30'51 9° \$\mathbf{m}\$ 48'13 11° \$\mathbf{m}\$ 20'51 0° \$\mathbf{n}\$ 6° \$\mathbf{n}\$ 37'42 22° \$\mathbf{n}\$ 58'11 23° \$\mathbf{n}\$ 13'18 0° \$\mathbf{n}\$ 5° \$\mathbf{n}\$ 41'32 12° \$\mathbf{n}\$ 24'05	0°57'09 25°14'43 0.57391 AU -5°21'10 5°20'24 19°03'39 1°16'31 1°16'21
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist.	8507 Sep 19 07:45 8507 Sep 28 16:38 8507 Oct 08 18:26 8507 Oct 18 18:13 8507 Oct 21 02:05 8507 Nov 01 16:09 8507 Nov 08 08:58 8507 Nov 12 07:43 8507 Nov 13 03:26 8507 Nov 15 12:32 8507 Nov 15 19:54 8507 Nov 23 09:13 8507 Nov 25 14:36 8507 Dec 01 03:09 8507 Dec 03 10:04 8507 Dec 04 00:39 8507 Dec 19 05:37 8507 Dec 28 12:30 8507 Dec 28 12:30 8507 Dec 28 15:46 8508 Jan 04 17:26 8508 Jan 05 02:45 8508 Jan 09 05:32	11° \$\sim 30'20 0° \$\mathbb{m}\$. 16° \$\mathbb{m}\$.08'10 27° \$\mathbb{m}\$.56'40 0° \$\mathscr{A}\$ 5° \$\mathscr{A}'03'13 3° \$\mathscr{A}'12'10 0° \$\mathscr{A}'37'18 30° \$\mathscr{m}\$. 28° \$\mathscr{m}\$.08'39 27° \$\mathscr{m}\$.54'22 23° \$\mathscr{m}\$.33'07 23° \$\mathscr{m}\$.15'31 25° \$\mathscr{m}\$.10'42 27° \$\mathscr{m}\$.05'27 0° \$\mathscr{A}\$ 22° \$\mathscr{A}'17'20 0° \$\mathscr{A}\$ 9° \$\mathscr{A}\$ 42'42 9° \$\mathscr{A}\$ 57'38 22° \$\mathscr{A}\$ 26'444 23° \$\mathscr{A}\$ 06'31 0° \$\infty\$	0.59402 AU -4°32'03 4°30'03 18°17'50 0°52'14 0°51'58	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong morning set	8508 Aug 26 21:53 8508 Sep 02 18:10 8508 Sep 02 18:18 8508 Sep 04 13:18 8508 Sep 21 18:23 8508 Sep 24 15:32 8508 Sep 29 11:20 8508 Oct 13 08:44 8508 Oct 19 04:08 8508 Oct 23 23:06 8508 Oct 26 21:12 8508 Oct 27 02:14 8508 Nov 04 02:39 8508 Nov 06 12:40 8508 Nov 15 12:15 8508 Nov 17 00:09 8508 Nov 28 19:23 8508 Dec 02 04:54 8508 Dec 10 12:21 8508 Dec 10 15:30 8508 Dec 14 05:41 8508 Dec 21 04:07 8508 Dec 21 14:26	11° m 10'36 26° m 11'23 0° n 0° m 3° m 41'31 8° m 55'16 15° m 55'58 14° m 38'48 11° m 58'45 10° m 00'44 9° m 52'15 5° m 48'04 5° m 30'51 9° m 48'13 11° m 20'51 0° x 6° x 37'42 22° x 58'11 23° x 13'18 0° 5 5° 541'32 12° 524'05 13° 508'27	0°57'09 25°14'43 0.57391 AU -5°21'10 5°20'24 19°03'39 1°16'31 1°16'21
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	8507 Sep 19 07:45 8507 Sep 28 16:38 8507 Oct 08 18:26 8507 Oct 18 18:13 8507 Oct 21 02:05 8507 Nov 01 16:09 8507 Nov 08 08:58 8507 Nov 12 07:43 8507 Nov 13 03:26 8507 Nov 15 12:32 8507 Nov 15 19:54 8507 Nov 23 09:13 8507 Nov 23 09:13 8507 Nov 25 14:36 8507 Dec 01 03:09 8507 Dec 03 10:04 8507 Dec 04 00:39 8507 Dec 19 05:37 8507 Dec 28 12:30 8507 Dec 28 15:46 8508 Jan 04 17:26 8508 Jan 09 05:32 8508 Jan 09 05:32	11° \$\sim 30'20 0° \$\mathbb{m}\$. 16° \$\mathbb{m}\$.08'10 27° \$\mathbb{m}\$.56'40 0° \$\mathscr{A}\$ 5° \$\mathscr{A}'03'13 3° \$\mathscr{A}'12'10 0° \$\mathscr{A}'37'18 30° \$\mathscr{m}\$. 28° \$\mathscr{m}\$.08'39 27° \$\mathscr{m}\$.54'22 23° \$\mathscr{m}\$.33'07 23° \$\mathscr{m}\$.15'31 25° \$\mathscr{m}\$.10'42 27° \$\mathscr{m}\$.05'27 0° \$\mathscr{A}\$ 22° \$\mathscr{A}'17'20 0° \$\mathscr{A}\$ 22° \$\mathscr{A}'17'20 0° \$\mathscr{A}\$ 22° \$\mathscr{A}'24'42 9° \$\mathscr{A}'57'38 22° \$\mathscr{A}'26'44 23° \$\mathscr{A}'06'31 0° \$\improx\$ 0° \$\improx\$ 51'20	0.59402 AU -4°32'03 4°30'03 18°17'50 0°52'14 0°51'58	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	8508 Aug 26 21:53 8508 Sep 02 18:10 8508 Sep 02 18:18 8508 Sep 04 13:18 8508 Sep 21 18:23 8508 Sep 24 15:32 8508 Sep 29 11:20 8508 Oct 13 08:44 8508 Oct 19 04:08 8508 Oct 23 23:06 8508 Oct 26 21:12 8508 Oct 27 02:14 8508 Nov 04 02:39 8508 Nov 06 12:40 8508 Nov 15 12:15 8508 Nov 17 00:09 8508 Nov 28 19:23 8508 Dec 02 04:54 8508 Dec 10 12:21 8508 Dec 10 15:30 8508 Dec 11 05:41 8508 Dec 21 04:07 8508 Dec 21 14:26 8508 Dec 31 23:18	11° ₱ 10'36 26° ₱ 11'23 0° ₽ 0° M 3° M.41'31 8° M.55'16 15° M.55'58 14° M.38'48 11° M.58'45 10° M.00'44 9° M.52'15 5° M.48'04 5° M.30'51 9° M.48'13 11° M.20'51 0° ♂ 6° ♂ 37'42 22° ♂ 58'11 23° ♂ 13'18 0° ♂ 5° ♂ 41'32 12° ♂ 24'05 13° ♂ 08'27 0° ≈	0°57'09 25°14'43 0.57391 AU -5°21'10 5°20'24 19°03'39 1°16'31 1°16'21
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise	8507 Sep 19 07:45 8507 Sep 28 16:38 8507 Oct 08 18:26 8507 Oct 18 18:13 8507 Oct 21 02:05 8507 Nov 01 16:09 8507 Nov 08 08:58 8507 Nov 12 07:43 8507 Nov 13 03:26 8507 Nov 15 12:32 8507 Nov 15 19:54 8507 Nov 23 09:13 8507 Nov 25 14:36 8507 Dec 01 03:09 8507 Dec 03 10:04 8507 Dec 04 00:39 8507 Dec 19 05:37 8507 Dec 28 12:30 8507 Dec 28 12:30 8507 Dec 28 15:46 8508 Jan 04 17:26 8508 Jan 05 02:45 8508 Jan 09 05:32 8508 Jan 09 18:03 8508 Jan 09 18:03	11° \$\sim 30'20 0° \$\mathbb{m}\$. 16° \$\mathbb{m}\$.08'10 27° \$\mathbb{m}\$.56'40 0° \$\mathscr{A}\$ 5° \$\mathscr{A}'03'13 3° \$\mathscr{A}'12'10 0° \$\mathscr{A}'37'18 30° \$\mathscr{m}\$. 28° \$\mathscr{m}\$.08'39 27° \$\mathscr{m}\$.54'22 23° \$\mathscr{m}\$.33'07 23° \$\mathscr{m}\$.15'31 25° \$\mathscr{m}\$.10'42 27° \$\mathscr{m}\$.05'27 0° \$\mathscr{A}\$ 22° \$\mathscr{A}'17'20 0° \$\mathscr{A}\$ 22° \$\mathscr{A}'24'42 9° \$\mathscr{A}'57'38 22° \$\mathscr{A}'26'44 23° \$\mathscr{A}'06'31 0° \$\approx\$ 0° \$\approx 51'20 0° \$\mathscr{A}\$	0.59402 AU -4°32'03 4°30'03 18°17'50 0°52'14 0°51'58 1.40969 AU	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	8508 Aug 26 21:53 8508 Sep 02 18:10 8508 Sep 04 13:18 8508 Sep 04 13:18 8508 Sep 21 18:23 8508 Sep 24 15:32 8508 Sep 29 11:20 8508 Oct 13 08:44 8508 Oct 19 04:08 8508 Oct 23 23:06 8508 Oct 26 21:12 8508 Oct 27 02:14 8508 Nov 04 02:39 8508 Nov 04 02:39 8508 Nov 15 12:15 8508 Nov 17 00:09 8508 Nov 28 19:23 8508 Dec 02 04:54 8508 Dec 10 12:21 8508 Dec 10 15:30 8508 Dec 11 08:33 8508 Dec 21 04:07 8508 Dec 21 14:26 8508 Dec 31 23:18 8509 Jan 23 06:02	11° m 10'36 26° m 11'23 0° n 0° m 3° m 41'31 8° m 55'16 15° m 55'58 14° m 38'48 11° m 58'45 10° m 00'44 9° m 52'15 5° m 48'04 5° m 30'51 9° m 48'13 11° m 20'51 0° x 6° x 37'42 22° x 58'11 23° x 13'18 0° 5 5° 541'32 12° 524'05 13° 508'27 0° ≈ 0° H	0°57'09 25°14'43 0.57391 AU -5°21'10 5°20'24 19°03'39 1°16'31 1°16'21 1.38807 AU
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el	8507 Sep 19 07:45 8507 Sep 28 16:38 8507 Oct 08 18:26 8507 Oct 18 18:13 8507 Oct 21 02:05 8507 Nov 01 16:09 8507 Nov 08 08:58 8507 Nov 12 07:43 8507 Nov 13 03:26 8507 Nov 15 12:32 8507 Nov 15 19:54 8507 Nov 23 09:13 8507 Nov 25 14:36 8507 Dec 01 03:09 8507 Dec 03 10:04 8507 Dec 06 00:39 8507 Dec 19 05:37 8507 Dec 28 12:30 8507 Dec 28 12:30 8507 Dec 28 15:46 8508 Jan 04 17:26 8508 Jan 05 02:45 8508 Jan 09 05:32 8508 Jan 09 18:03 8508 Jan 28 23:37 8508 Feb 12 22:44	11° \$\sim 30'20 0° \$\mathbb{m}\$. 16° \$\mathbb{m}\$.08'10 27° \$\mathbb{m}\$.56'40 0° \$\mathscr{n}\$ 5° \$\mathscr{n}\$'03'13 3° \$\mathscr{n}\$'12'10 0° \$\mathscr{n}\$'37'18 30° \$\mathscr{m}\$. 28° \$\mathscr{m}\$.08'39 27° \$\mathscr{m}\$.54'22 23° \$\mathscr{m}\$.15'31 25° \$\mathscr{m}\$.10'42 27° \$\mathscr{m}\$.05'27 0° \$\mathscr{n}\$ 22° \$\mathscr{n}\$.17'20 0° \$\mathscr{n}\$ 9° \$\mathscr{n}\$.42'42 9° \$\mathscr{n}\$.57'38 22° \$\mathscr{n}\$.26'44 23° \$\mathscr{n}\$.06'31 0° \$\infty\$ 0° \$\mathscr{n}\$. 18° \$\mathscr{n}\$.34'19	0.59402 AU -4°32'03 4°30'03 18°17'50 0°52'14 0°51'58	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong morning set superior conj minimum elong max. Earth dist. evening rise desc. node	8508 Aug 26 21:53 8508 Sep 02 18:10 8508 Sep 02 18:23 8508 Sep 21 18:23 8508 Sep 24 15:32 8508 Sep 29 11:20 8508 Oct 13 08:44 8508 Oct 19 04:08 8508 Oct 23 23:06 8508 Oct 26 21:12 8508 Oct 27 02:14 8508 Nov 04 02:39 8508 Nov 04 02:39 8508 Nov 15 12:15 8508 Nov 17 00:09 8508 Nov 28 19:23 8508 Dec 02 04:54 8508 Dec 10 12:21 8508 Dec 10 15:30 8508 Dec 14 05:41 8508 Dec 17 08:33 8508 Dec 21 14:26 8508 Dec 21 14:26 8508 Dec 31 23:18 8509 Jan 23 06:02 8509 Jan 25 12:10	11° m 10'36 26° m 11'23 0° n 0° m 3° m 41'31 8° m 55'16 15° m 55'58 14° m 38'48 11° m 58'45 10° m 00'44 9° m 52'15 5° m 48'04 5° m 30'51 9° m 48'13 11° m 20'51 0° x 6° x 37'42 22° x 58'11 23° x 13'18 0° 5 5° 541'32 12° 524'05 13° 508'27 0° ≈ 0° H 2° H 20'14	0°57'09 25°14'43 0.57391 AU -5°21'10 5°20'24 19°03'39 1°16'31 1°16'21 1.38807 AU
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde	8507 Sep 19 07:45 8507 Sep 28 16:38 8507 Oct 08 18:26 8507 Oct 18 18:13 8507 Oct 21 02:05 8507 Nov 01 16:09 8507 Nov 08 08:58 8507 Nov 12 07:43 8507 Nov 13 03:26 8507 Nov 15 12:32 8507 Nov 15 19:54 8507 Nov 23 09:13 8507 Nov 25 14:36 8507 Dec 01 03:09 8507 Dec 03 10:04 8507 Dec 06 00:39 8507 Dec 19 05:37 8507 Dec 28 12:30 8507 Dec 28 12:30 8507 Dec 28 15:46 8508 Jan 04 17:26 8508 Jan 05 02:45 8508 Jan 09 05:32 8508 Jan 09 18:03 8508 Feb 12 22:44 8508 Feb 23 10:33	11° 230'20 0° M 16° M.08'10 27° M.56'40 0° ズ 5° ズ03'13 3° ズ12'10 0° ズ37'18 30° RM 28° M.08'39 27° M.54'22 23° M.33'07 23° M.15'31 25° M.10'42 27° M.05'27 0° ズ 22° ズ17'20 0° 云 9° 云42'42 9° 云57'38 22° 云26'44 23° 云06'31 0° 念 0° 念 51'20 0° 光 18° 光34'19 24° 光46'48	0.59402 AU -4°32'03 4°30'03 18°17'50 0°52'14 0°51'58 1.40969 AU	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	8508 Aug 26 21:53 8508 Sep 02 18:10 8508 Sep 02 18:23 8508 Sep 21 18:23 8508 Sep 24 15:32 8508 Sep 29 11:20 8508 Oct 13 08:44 8508 Oct 19 04:08 8508 Oct 23 23:06 8508 Oct 26 21:12 8508 Oct 27 02:14 8508 Nov 04 02:39 8508 Nov 06 12:40 8508 Nov 15 12:15 8508 Nov 17 00:09 8508 Nov 28 19:23 8508 Dec 02 04:54 8508 Dec 10 12:21 8508 Dec 10 15:30 8508 Dec 14 05:41 8508 Dec 17 08:33 8508 Dec 21 04:07 8508 Dec 21 14:26 8508 Dec 31 23:18 8509 Jan 23 06:02 8509 Jan 25 12:10 8509 Feb 06 01:53	11° m 10'36 26° m 11'23 0° n 0° m 3° m 41'31 8° m 55'16 15° m 55'58 14° m 38'48 11° m 58'45 10° m 00'44 9° m 52'15 5° m 48'04 5° m 30'51 9° m 48'13 11° m 20'51 0° x 6° x 37'42 22° x 58'11 23° x 13'18 0° 3 5° 341'32 12° 324'05 13° 308'27 0° ≈ 0° H 2° H 20'14 9° H 05'53	0°57'09 25°14'43 0.57391 AU -5°21'10 5°20'24 19°03'39 1°16'31 1°16'21 1.38807 AU
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el	8507 Sep 19 07:45 8507 Sep 28 16:38 8507 Oct 08 18:26 8507 Oct 18 18:13 8507 Oct 21 02:05 8507 Nov 01 16:09 8507 Nov 08 08:58 8507 Nov 12 07:43 8507 Nov 13 03:26 8507 Nov 15 12:32 8507 Nov 15 19:54 8507 Nov 23 09:13 8507 Nov 25 14:36 8507 Dec 01 03:09 8507 Dec 03 10:04 8507 Dec 06 00:39 8507 Dec 19 05:37 8507 Dec 28 12:30 8507 Dec 28 12:30 8507 Dec 28 15:46 8508 Jan 04 17:26 8508 Jan 05 02:45 8508 Jan 09 05:32 8508 Jan 09 18:03 8508 Jan 28 23:37 8508 Feb 12 22:44	11° \$\sim 30'20 0° \$\mathbb{m}\$. 16° \$\mathbb{m}\$.08'10 27° \$\mathbb{m}\$.56'40 0° \$\mathscr{n}\$ 5° \$\mathscr{n}\$'03'13 3° \$\mathscr{n}\$'12'10 0° \$\mathscr{n}\$'37'18 30° \$\mathscr{m}\$. 28° \$\mathscr{m}\$.08'39 27° \$\mathscr{m}\$.54'22 23° \$\mathscr{m}\$.15'31 25° \$\mathscr{m}\$.10'42 27° \$\mathscr{m}\$.05'27 0° \$\mathscr{n}\$ 22° \$\mathscr{n}\$.17'20 0° \$\mathscr{n}\$ 9° \$\mathscr{n}\$.42'42 9° \$\mathscr{n}\$.57'38 22° \$\mathscr{n}\$.26'44 23° \$\mathscr{n}\$.06'31 0° \$\infty\$ 0° \$\mathscr{n}\$. 18° \$\mathscr{n}\$.34'19	0.59402 AU -4°32'03 4°30'03 18°17'50 0°52'14 0°51'58 1.40969 AU	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong morning set superior conj minimum elong max. Earth dist. evening rise desc. node	8508 Aug 26 21:53 8508 Sep 02 18:10 8508 Sep 02 18:23 8508 Sep 21 18:23 8508 Sep 24 15:32 8508 Sep 29 11:20 8508 Oct 13 08:44 8508 Oct 19 04:08 8508 Oct 23 23:06 8508 Oct 26 21:12 8508 Oct 27 02:14 8508 Nov 04 02:39 8508 Nov 04 02:39 8508 Nov 15 12:15 8508 Nov 17 00:09 8508 Nov 28 19:23 8508 Dec 02 04:54 8508 Dec 10 12:21 8508 Dec 10 15:30 8508 Dec 14 05:41 8508 Dec 17 08:33 8508 Dec 21 14:26 8508 Dec 21 14:26 8508 Dec 31 23:18 8509 Jan 23 06:02 8509 Jan 25 12:10	11° m 10'36 26° m 11'23 0° n 0° m 3° m 41'31 8° m 55'16 15° m 55'58 14° m 38'48 11° m 58'45 10° m 00'44 9° m 52'15 5° m 48'04 5° m 30'51 9° m 48'13 11° m 20'51 0° x 6° x 37'42 22° x 58'11 23° x 13'18 0° 5 5° 541'32 12° 524'05 13° 508'27 0° ≈ 0° H 2° H 20'14	0°57'09 25°14'43 0.57391 AU -5°21'10 5°20'24 19°03'39 1°16'31 1°16'21 1.38807 AU

min. Earth dist.	8509 Feb 16 04:15	1°) 35′50	0.67962 AU	min. Earth dist.	8510 Jan 30 20:37	16° ≈ 09'44	0.67157 AU
inferior conj	8509 Feb 17 03:19	0° ₩ 19'02	1°19'55	inferior conj	8510 Feb 01 07:05	14° ≈ 20'59	0°28'39
minimum elong	8509 Feb 17 01:35	0°) €24'49	1°19'23	minimum elong	8510 Feb 01 06:21	14° ≈ 23'17	0°28'31
8	8509 Feb 17 09:02	30° R ≈		morning rise	8510 Feb 06 23:48	8° ≈ 30'17	
morning rise	8509 Feb 22 13:04	24°≈19'43		direct	8510 Feb 10 06:23	7°≈28'50	
direct	8509 Feb 26 07:13	22° ≈ 58'49		morning max el	8510 Feb 17 02:03	11° ≈ 12'39	18°56'42
morning max el	8509 Mar 05 18:45	27°≈10'34	19°53'05	C	8510 Mar 02 22:42	0° ∀	
C	8509 Mar 08 09:13	0° ∀		desc. node	8510 Mar 06 11:02	5° ¥ 24'20	
greatest brilliancy	8509 Mar 18 22:15	14° ℋ 16′27	-0.6m	morning set	8510 Mar 11 14:27	13° ¥ 23′20	
desc. node	8509 Mar 19 14:08	15°) 14'42			8510 Mar 22 06:07	$0^{\circ}\mathbf{\Upsilon}$	
	8509 Mar 29 09:28	0 ° $\mathbf{\gamma}$		max. Earth dist.	8510 Mar 26 01:52	5° Ƴ 59'16	1.45278 AU
morning set	8509 Apr 01 08:31	4° Ƴ 32'42					
max. Earth dist.	8509 Apr 12 09:39	21° Y 49'23	1.44296 AU	superior conj	8510 Mar 28 03:19	9° Ƴ 13'39	-2°00'56
	8509 Apr 17 11:48	0°8		minimum elong	8510 Mar 27 20:02	8° Y 45'00	2°00'32
					8510 Apr 10 03:39	0° ႘	
superior conj	8509 Apr 17 13:55	0° 8 08'34	-2°12'02	evening rise	8510 Apr 12 03:08	3° 8 12'34	
minimum elong	8509 Apr 17 13:35	0° 8 07'16	2°12'07	asc. node	8510 Apr 28 19:12	29° 8 12'05	
evening rise	8509 Apr 30 21:47	22° 8 23'14			8510 Apr 29 09:58	Π $^{\circ}0$	
	8509 May 05 08:53	Π $^{\circ}0$		evening max el	8510 May 02 09:30	3° Ⅲ 25′15	18°32'09
asc. node	8509 May 11 22:07	10° Ⅱ 46′02		retrograde	8510 May 08 21:27	6° Ⅱ 57'19	
evening max el	8509 May 18 21:02	19° Ⅱ 55'17	18°09'57	evening set	8510 May 12 01:24	6° Ⅱ 01′02	
retrograde	8509 May 25 06:17	23° Ⅱ 16'41		inferior conj	8510 May 17 18:49	0° Ⅲ 28′01	3°18'27
evening set	8509 May 28 02:49	22° Ⅱ 34'22		minimum elong	8510 May 17 19:50	0° Ⅱ 24'59	3°18'12
inferior conj	8509 Jun 03 05:46	17° Ⅱ 18'41	2°57'50		8510 May 18 04:08	30° ₹ 8	
minimum elong	8509 Jun 03 08:03	17° Ⅱ 12'27	2°57'15	min. Earth dist.	8510 May 19 21:22	27° 8 57'01	0.64932 AU
min. Earth dist.	8509 Jun 05 23:14	14° Ⅱ 21'56	0.62999 AU	morning rise	8510 May 23 13:27	24° 8 11'23	
morning rise	8509 Jun 09 11:44	11° Ⅱ 08'32		direct	8510 May 30 04:30	21° 8 26'01	
desc. node	8509 Jun 15 13:48	8° Ⅱ 36'15		desc. node	8510 Jun 02 10:48	22° 8 00'42	
direct	8509 Jun 16 06:04	8° Ⅱ 34'46		morning max el	8510 Jun 12 16:06	29° 8 21'40	27°13'49
morning max el	8509 Jun 30 06:07	16° ∏ 37'52	27°50'15		8510 Jun 13 07:04	0°Щ	
	8509 Jul 11 07:05	0ංම			8510 Jul 05 04:44	0ა ௐ	
	8509 Jul 29 15:45	$0^{\circ}\Omega$		morning set	8510 Jul 18 03:55	23° © 10'09	
morning set	8509 Aug 03 15:07	9° Ω 40'46			8510 Jul 21 14:36	0 ° Ω	
asc. node	8509 Aug 07 21:25	18° Ω 29'13		max. Earth dist.	8510 Jul 22 16:33	2°Ω12'01	1.33528 AU
max. Earth dist.	8509 Aug 08 20:44	20° £ 33′03	1.32413 AU	asc. node	8510 Jul 25 18:23	8° Ω 35'17	
superior conj	8509 Aug 11 08:10	25° Ω 53'08	0°34'24	superior conj	8510 Jul 26 11:29	10° Ω 05'28	0°07'12
minimum elong	8509 Aug 11 06:38	25° Ω 44'49	0°33'57	minimum elong	8510 Jul 26 11:08	10°Ω03'28	0°06'58
minimum clong	8509 Aug 11 00:38 8509 Aug 13 05:31	0° m)	0 33 37	behind sun begin	8510 Jul 26 06:05	9° Ω 36'55	0 00 30
evening rise	8509 Aug 18 05:46	10° mp 52'34		behind sun end	8510 Jul 26 16:10	10° Ω 30'14	
e vennig rise	8509 Aug 27 22:38	0° ರ		evening rise	8510 Aug 02 16:43	25° Ω 28'25	
evening max el	8509 Sep 10 22:58	19° ≙ 16'07	23°38'57	evening rise	8510 Aug 04 20:47	0° m)	
desc. node	8509 Sep 11 12:39	19° ≏ 48'34	25 5007	evening max el	8510 Aug 23 12:45	29° m 30'27	22°00'27
retrograde	8509 Sep 24 12:58	26° ♀ 03'45			8510 Aug 24 01:02	0∘ ⊽	
evening set	8509 Sep 28 22:57	25° £ 21'07		desc. node	8510 Aug 29 09:46	3° ჲ 59'10	
min. Earth dist.	8509 Oct 05 09:11	22° £ 17'23	0.55756 AU	retrograde	8510 Sep 05 05:11	5° ≏ 48'41	
inferior conj	8509 Oct 07 09:40	21° ≏ 05'01		evening set	8510 Sep 08 04:10	5° ≏ 29'12	
minimum elong	8509 Oct 07 08:07	21° ≏ 07'19	5°35'05	min. Earth dist.	8510 Sep 16 17:21	1° ≏ 46'55	0.54816 AU
morning rise	8509 Oct 15 19:22	17° ♀ 10'44		inferior conj	8510 Sep 17 06:25	1° ≏ 28'37	-4°56'49
direct	8509 Oct 18 15:26	16° ≙ 50'45		minimum elong	8510 Sep 16 22:04	1° ≏ 40'19	4°55'11
morning max el	8509 Oct 29 02:26	21° ≏ 45'38	20°11'57		8510 Sep 19 23:09	30°₽,₩)	
asc. node	8509 Nov 03 21:07	28° ≙ 37'11		morning rise	8510 Sep 25 17:24	27° m 40'23	
	8509 Nov 04 19:49	0°M		direct	8510 Sep 29 03:34	27° m) 14'28	
morning set	8509 Nov 16 10:34	21°M14'45			8510 Oct 07 12:25	0∘ ರ	
	8509 Nov 20 16:49	0° ∡ ¹		morning max el	8510 Oct 11 03:30	2° ჲ 53'33	21°41'21
				asc. node	8510 Oct 21 18:04	16° ≏ 44'55	
superior conj	8509 Nov 24 01:47	6° ≯ 52'08	1°32'07		8510 Oct 28 21:50	0° M	
minimum elong	8509 Nov 24 03:55	7° ∡ 02'49	1°32'08	morning set	8510 Oct 31 20:05	6°M00'58	
max. Earth dist.	8509 Nov 29 15:01	17° ∡ 745′10	1.36691 AU				
evening rise	8509 Dec 03 10:38	24° ∡ ′51′12		superior conj	8510 Nov 08 00:48	21°M12'32	
	8509 Dec 06 07:49	0°ರ		minimum elong	8510 Nov 08 01:37	21°M16'47	1°40'03
desc. node	8509 Dec 08 11:27	3° ⋜ 43'24		max. Earth dist.	8510 Nov 12 03:16	29°M38'43	1.34832 AU
	8509 Dec 25 13:39	0° ≈			8510 Nov 12 07:30	0° ∡	
evening max el	8510 Jan 08 01:21	16°≈08′20	25°49'15	evening rise	8510 Nov 16 09:52	8° ∡ °02′18	
retrograde	8510 Jan 20 12:29	23° ≈ 15'47		desc. node	8510 Nov 25 08:29	24° ∡ ¹06′18	
evening set	8510 Jan 26 13:25	20° ≈ 47'15			8510 Nov 28 22:36	0° ろ	
asc. node	8510 Jan 30 20:22	16°≈10'30		evening max el	8510 Dec 21 14:44	29° る 51'00	26°46'17

	8510 Dec 21 18:29	0° ≈		evening max el	8511 Dec 04 03:27	13° 石 17'51	27°21'17
retrograde	8511 Jan 03 17:26	7° ≈ 09'03		retrograde	8511 Dec 17 16:16	20° る 37'59	2, 211,
evening set	8511 Jan 10 06:08	4° ≈ 34'05		evening set	8511 Dec 24 14:10	18° る 02'53	
min. Earth dist.	8511 Jan 14 07:16	0° ≈ 31'12	0.65987 AU	min. Earth dist.	8511 Dec 28 10:00	14° る 33'20	0.64469 AU
	8511 Jan 14 18:03	30°R₹		inferior conj	8511 Dec 30 19:47	11° る 59'13	-1°35'41
inferior conj	8511 Jan 16 05:21	28° ප 16'11	-0°30'13	minimum elong	8511 Dec 30 22:43	11° る 51'22	1°34'17
minimum elong	8511 Jan 16 06:12	28° る 13'42	0°29'41	asc. node	8512 Jan 04 14:28	7° る 33'13	
asc. node	8511 Jan 17 17:25	26° る 32'32		morning rise	8512 Jan 06 08:52	6° る 33'37	
morning rise	8511 Jan 22 07:17	22° る 36'35		direct	8512 Jan 08 21:35	6° る 00'48	
direct	8511 Jan 25 03:58	21° る 51'18		morning max el	8512 Jan 15 08:14	9° ට 23'04	17°53'37
morning max el	8511 Jan 31 15:24	25° る 19'02	18°16'42		8512 Jan 29 09:26	0° ≈	
	8511 Feb 04 15:17	0° ≈		morning set	8512 Feb 01 11:59	5° ≈ 13'16	
morning set	8511 Feb 19 22:41	23° ≈ 35′28		desc. node	8512 Feb 08 04:54	16° ≈ 24'28	
desc. node	8511 Feb 21 07:57	25° ≈ 49′07					
	8511 Feb 23 22:35	0° ℋ		superior conj	8512 Feb 14 23:56	27° ≈ 27'46	-0°47'58
				minimum elong	8512 Feb 14 18:28		0°47'05
superior conj	8511 Mar 07 08:12	18° ∺ 02'27			8512 Feb 16 13:59	0° ∀	
minimum elong	8511 Mar 06 22:44	17° ¥ 25′20		max. Earth dist.	8512 Feb 19 17:07	4° ¥ 58'05	1.45035 AU
max. Earth dist.	8511 Mar 08 21:30	20° ¥ 28'35	1.45532 AU	evening rise	8512 Mar 01 23:45	22° ∺ 30′18	
	8511 Mar 14 23:44	0° Υ			8512 Mar 06 21:27	0° Υ	
evening rise	8511 Mar 23 09:26	13° Y ′07'43		greatest brilliancy	8512 Mar 16 20:30	14° Y ′54'13	-0.6m
	8511 Apr 03 05:44	0°8			8512 Mar 28 07:34	0°8	
greatest brilliancy	8511 Apr 03 12:37	0° 8 26'16	-0.8m	evening max el	8512 Mar 28 22:37	0° 8 39'12	20°06'57
asc. node	8511 Apr 15 16:16	16° 8 55'12		asc. node	8512 Apr 01 13:22	3° 8 42'57	
evening max el	8511 Apr 15 18:34	17° 8 01'01	19°11'43	retrograde	8512 Apr 05 16:01	5° 8 07'52	
retrograde	8511 Apr 22 17:37	20° 8 56'11		evening set	8512 Apr 09 12:21	3° 8 41'53	
evening set	8511 Apr 26 05:21	19° 8 45'13	2022125		8512 Apr 13 01:53	30° ₹ Υ	2012125
inferior conj	8511 May 01 16:41	13° 8 56'22		inferior conj	8512 Apr 14 20:28	27° Y 39'03	3°13'37
minimum elong	8511 May 01 16:24	13° 8 57'15	3°22'29	minimum elong	8512 Apr 14 19:09	27° Y 43'30	3°13'23
min. Earth dist.	8511 May 03 03:52	12° 8 03'00	0.66472 AU	min. Earth dist.	8512 Apr 15 17:12	26° Y 28'48	0.67572 AU
morning rise	8511 May 07 03:04	7° 8 38'04		morning rise	8512 Apr 20 01:43	21° Y 21'57	
direct desc. node	8511 May 13 09:30	4° 8 53'10 7° 8 28'50		direct desc. node	8512 Apr 25 20:14	18° Y 47'26 24° Y 30'00	
	8511 May 20 07:46 8511 May 26 02:25	12° 8 27'49	26°10'04		8512 May 06 04:45 8512 May 07 11:53	25° Y 46'24	24°48'19
morning max el	8511 May 20 02:23 8511 Jun 09 04:20	0° Ⅱ	20 10 04	morning max el	8512 May 11 08:39	0° 8	24 46 19
	8511 Jun 27 20:56	0°©			8512 Jun 01 17:13	0°II	
morning set	8511 Jul 01 04:03	6°9500'41		morning set	8512 Jun 12 10:52	17° Ⅱ 59'53	
max. Earth dist.	8511 Jul 05 01:50	13° © 26'16	1.35117 AU	max. Earth dist.	8512 Jun 16 01:39	24° Ⅱ 30'39	1.37117 AU
max. Latin dist.	0311341 03 01.30	13 32010	1.55117 AO	max. Earth dist.	8512 Jun 19 00:25	0°95	1.5/11/ AO
superior conj	8511 Jul 10 07:31	23° © 52'41	-0°23'09		0312 Juli 17 00.23	0 3	
minimum elong	8511 Jul 10 08:52	23°959'32		superior conj	8512 Jun 22 17:10	7°506'17	-0°55'06
asc. node	8511 Jul 12 15:23	28°\$39'46	0 20 00	minimum elong	8512 Jun 22 20:35	7°922'55	
	8511 Jul 13 06:52	$0^{\circ}\Omega$		asc. node	8512 Jun 28 12:24	18°938'12	
evening rise	8511 Jul 18 00:59	9° Ω 52'58		evening rise	8512 Jul 01 04:13	23°958'55	
C	8511 Jul 28 17:20	0° m)		Č	8512 Jul 04 05:07	$0^{\circ}\Omega$	
evening max el	8511 Aug 05 12:46	10° m) 11'41	20°33'40	evening max el	8512 Jul 18 02:04	21° Ω 35'57	19°25'51
desc. node	8511 Aug 16 06:52	15° m 43'37		retrograde	8512 Jul 27 13:53	26° Ω 17'28	
retrograde	8511 Aug 16 17:25	15° m 44'07		evening set	8512 Jul 29 10:21	26° Ω 07'30	
evening set	8511 Aug 18 18:43	15° m 33'42		desc. node	8512 Aug 02 03:59	24° Ω 53'15	
inferior conj	8511 Aug 27 23:18	11° m)36'37	-3°26'42	inferior conj	8512 Aug 07 02:40	22° Ω 00'46	-1°31'04
minimum elong	8511 Aug 27 14:23	11° m 49'28	3°23'51	minimum elong	8512 Aug 06 22:34	22° Ω 07'24	1°29'37
min. Earth dist.	8511 Aug 29 02:39	10° m 57'11	0.54781 AU	min. Earth dist.	8512 Aug 09 15:11	20° £ 23′10	0.55689 AU
morning rise	8511 Sep 05 09:42	7° m 34'18		morning rise	8512 Aug 15 08:10	17° Ω 26′02	
direct	8511 Sep 09 12:14	6° Mp 58′10		direct	8512 Aug 20 06:01	16° Ω 31'32	
morning max el	8511 Sep 22 18:52	13° m 22'30	23°25'05	morning max el	8512 Sep 03 07:17	23° Ω 35'46	25°09'36
	8511 Oct 05 11:09	0∘ ⊽			8512 Sep 09 02:32	0° m)	
asc. node	8511 Oct 08 15:02	5° ≙ 31'57		asc. node	8512 Sep 24 12:00	24° m 47'32	
morning set	8511 Oct 16 07:33	20° ♀ 51'09			8512 Sep 27 02:25	0∘ ত	
	8511 Oct 20 13:33	0°M₊		morning set	8512 Sep 29 19:13	5° £ 39'05	
superior conj	8511 Oct 23 06:23	5°M50′50	1°40'50	superior conj	8512 Oct 06 15:58	20° ჲ 38'19	1°35'37
minimum elong	8511 Oct 23 05:57	5° ™ 48'30	1°40'56	minimum elong	8512 Oct 06 14:32	20° ჲ 30'30	1°35'35
max. Earth dist.	8511 Oct 25 23:44	11° M 39'45	1.33359 AU	max. Earth dist.	8512 Oct 08 03:34	23° ≏ 53'24	1.32324 AU
evening rise	8511 Oct 30 22:06	21°M48'04			8512 Oct 10 23:27	0° M	
	8511 Nov 04 03:52	0° ∡ ¹		evening rise	8512 Oct 13 19:49	5° ™ 58'34	
desc. node	8511 Nov 12 05:35	14° ∡ 11'30			8512 Oct 26 17:40	0° ∡ ′	
	8511 Nov 22 18:20	0°₹		desc. node	8512 Oct 29 02:41	3° ∡ ′50′33	

evening max el	8512 Nov 15 13:39	26° ₹ 16'15	27°27'59	evening rise	8513 Sep 28 00:16	20° ≏ 26'09	
	8512 Nov 20 01:13	8°0		_	8513 Oct 02 16:54	0° M ₊	
retrograde	8512 Nov 29 08:25	3°₹33'01		desc. node	8513 Oct 15 23:46	22°M52'57	
evening set	8512 Dec 06 10:37	1° る 06'42			8513 Oct 21 03:19	0°⊀	
	8512 Dec 07 22:34	30°₹⊀		evening max el	8513 Oct 28 19:00	8° ∡ ³34'11	27°01'47
min. Earth dist.	8512 Dec 10 03:06	28° ₰ 06'08	0.62642 AU	retrograde	8513 Nov 11 16:43	15° ∡ ¹44'41	
inferior conj	8512 Dec 12 23:29	25° ₹ '22'56	-2°45'34	evening set	8513 Nov 18 15:39	13° ∡ ³37'59	
minimum elong	8512 Dec 13 04:46	25° ₹ 10′18	2°43'24	min. Earth dist.	8513 Nov 22 09:39	10° ∡ 757'24	0.60601 AU
morning rise	8512 Dec 20 01:03	20° ∡ 14′24		inferior conj	8513 Nov 25 13:10	8° ∡ 18'51	-3°55'18
asc. node	8512 Dec 21 11:31	19° ∡ 53'43		minimum elong	8513 Nov 25 20:16	8° ∡ 03'53	3°52'56
direct	8512 Dec 22 08:09	19° ∡ 50'17		morning rise	8513 Dec 03 03:17	3° ∡ ³30′20	
morning max el	8512 Dec 29 01:28		17°48'05	direct	8513 Dec 05 07:59	3° ҂ 11′22	
	8513 Jan 03 09:11	0°₹		asc. node	8513 Dec 08 08:34	3° ∡ ¹48'59	
morning set	8513 Jan 14 01:00	17° る 59'01		morning max el	8513 Dec 12 15:41	6° ≯ 750'28	18°01'12
	8513 Jan 20 21:46	0° ≈			8513 Dec 27 11:08	0° ठ	
desc. node	8513 Jan 25 01:52	7° ≈ 06'19		morning set	8513 Dec 28 07:17	1° る 33'16	
superior conj	8513 Jan 25 15:08	8° ≈ 01'59	-0°04'05	superior conj	8514 Jan 07 07:33	19° පි 48'04	0°34'08
minimum elong	8513 Jan 25 14:44	8° ≈ 00'19	0°03'51	minimum elong	8514 Jan 07 10:10	19° る 59'36	0°33'55
behind sun begin	8513 Jan 25 05:54	7° ≈ 23'15		desc. node	8514 Jan 11 22:50	27° る 50'54	
behind sun end	8513 Jan 25 23:34	8° ≈ 37'19			8514 Jan 13 05:18	0° ≈	
max. Earth dist.	8513 Feb 01 09:50	19° ≈ 10'11	1.43853 AU	max. Earth dist.	8514 Jan 14 22:04	2° ≈ 50'47	1.42131 AU
	8513 Feb 08 06:08	0°) €		evening rise	8514 Jan 20 12:47	11° ≈ 59'26	
evening rise	8513 Feb 09 12:00	1°) 55′53			8514 Feb 01 06:31	0°) €	
	8513 Feb 28 10:45	0 ° Υ		evening max el	8514 Feb 22 14:52	28° ₩ 00'32	22°32'13
evening max el	8513 Mar 11 21:09	14° Ƴ 18'56	21°15'12		8514 Feb 24 17:30	0° Y	
asc. node	8513 Mar 19 10:28	19° Ƴ 20'42		retrograde	8514 Mar 04 11:04	3° Ƴ 50'31	
retrograde	8513 Mar 20 14:27	19° Ƴ 27'38		asc. node	8514 Mar 06 07:35	3° Y 33'13	
evening set	8513 Mar 24 20:31	17° Ƴ 46'34		evening set	8514 Mar 09 04:09	1° Ƴ 54'26	
inferior conj	8513 Mar 30 03:46	11° Y 32'13	2°53'41		8514 Mar 11 02:13	30° ₹ ₩	
minimum elong	8513 Mar 30 01:47	11° Y 39'07	2°53'15	inferior conj	8514 Mar 14 12:28	25° ∺ 31'35	2°24'08
min. Earth dist.	8513 Mar 30 11:16	11° Y 06'10	0.68225 AU	minimum elong	8514 Mar 14 10:13	25° ∺ 39'24	2°23'32
morning rise	8513 Apr 04 06:50	5° Ƴ 18'11		min. Earth dist.	8514 Mar 14 07:42	25°) 48′07	0.68448 AU
direct	8513 Apr 09 11:51	3° Ƴ 01′02		morning rise	8514 Mar 19 16:07	19° ∺ 22'10	
morning max el	8513 Apr 19 21:23	9° Ƴ 12'16	23°18'53	direct	8514 Mar 24 07:13	17° ∺ 26′18	
desc. node	8513 Apr 23 01:42	12° Ƴ 38'51		morning max el	8514 Apr 02 09:52	22°) 45′29	21°51'08
	8513 May 06 05:46	9° 8			8514 Apr 08 16:46	0 ° $\mathbf{\Upsilon}$	
morning set	8513 May 24 18:58	28° 8 54'12		desc. node	8514 Apr 09 22:37	1° Ƴ 35'54	
	8513 May 25 10:36	Π $^{\circ}0$			8514 Apr 29 13:45	9° 8	
max. Earth dist.	8513 May 28 21:35	5° Ⅱ 55'23	1.39352 AU	morning set	8514 May 04 23:46	8° 8 32'00	
				max. Earth dist.	8514 May 10 20:50	18° 8 07'39	1.41558 AU
superior conj	8513 Jun 05 12:41	19° Ⅲ 37'58	-1°26'16		8514 May 17 19:56	Π $^{\circ}0$	
minimum elong	8513 Jun 05 17:58	20° Ⅲ 02′29	1°25'43				
	8513 Jun 11 00:18	0		superior conj	8514 May 18 13:23	1° Ⅱ 16′25	
evening rise	8513 Jun 14 23:31	7° © 39'09		minimum elong	8514 May 18 19:11	1° Ⅱ 41'53	1°52'30
asc. node	8513 Jun 15 09:27	8° © 26'58		evening rise	8514 May 29 07:08	20° Ⅱ 43'42	
	8513 Jun 27 21:41	0 $^{\circ}$ Ω		asc. node	8514 Jun 02 06:29	28° Ⅱ 00'50	
evening max el	8513 Jul 01 02:58	3° Ω 44'02	18°38'54		8514 Jun 03 08:58	0°€	
retrograde	8513 Jul 09 03:28	7° Ω 43'07		evening max el	8514 Jun 14 11:39	16° 5 26'53	18°12'22
evening set	8513 Jul 11 04:49	7° Ω 28'19		retrograde	8514 Jun 21 11:55	19° © 59'01	
inferior conj	8513 Jul 19 01:55	3° Ω 03'33		evening set	8514 Jun 23 20:50	19° © 35'25	
minimum elong	8513 Jul 19 02:34	3° Ω 02'19	0°16'57	inferior conj	8514 Jun 30 22:47	14° © 49'55	1°40'53
desc. node	8513 Jul 20 01:03	2° Ω 19'39		minimum elong	8514 Jul 01 01:37	14°543'41	1°39'49
min. Earth dist.	8513 Jul 22 08:22		0.57375 AU	min. Earth dist.	8514 Jul 04 07:42	11° © 52'58	0.59515 AU
	8513 Jul 23 05:10	30° ₹ 55		desc. node	8514 Jul 06 22:07	9°953'47	
morning rise	8513 Jul 26 20:48	27°951'40		morning rise	8514 Jul 08 03:22	9° © 07'27	
direct	8513 Aug 01 14:39	26° © 29'32		direct	8514 Jul 14 12:36	7°513'56	2 3 3 3 3 3 3 3 3 3 3
	8513 Aug 11 03:14	0°N	0.000=0.00	morning max el	8514 Jul 28 21:12	15° © 05'04	27°35'34
morning max el	8513 Aug 15 23:02	4° Ω 02'41	26°37'46		8514 Aug 09 23:03	0° N	
•	8513 Sep 03 18:52	0° Mp			8514 Aug 27 04:19	0°Mp 4°M≈15122	
asc. node	8513 Sep 11 09:00	14° Tp 24'05		asc. node	8514 Aug 29 05:59	4° m) 15'23	
morning set	8513 Sep 14 05:25	20° m/20'02		morning set	8514 Aug 29 12:27	4° Mp 49'16	1 21 (22 : **
	8513 Sep 18 16:13	0∘ ⊽		max. Earth dist.	8514 Sep 04 22:19	18° Mp 42'28	1.31639 AU
superior conj	8513 Sep 21 03:31	5° £ 28'34	1°24'51	superior conj	8514 Sep 05 15:10	20° m 15'49	1°08'57
minimum elong	8513 Sep 21 01:27	5° ≏ 17'10	1°24'37	minimum elong	8514 Sep 05 12:55	20° Mp 03'21	1°08'32
max. Earth dist.	8513 Sep 21 12:14	6° ≏ 16'55	1.31750 AU		8514 Sep 10 00:52	0∘ ⊽	
	- -				=		

•	•		C	` //		, •	Č
evening rise	8514 Sep 12 09:06	5° ≏ 04'15			8515 Sep 01 18:52	0∘ ত	
8	8514 Sep 25 10:34	0° M		desc. node	8515 Sep 19 17:59	28° ≏ 04'14	
desc. node	8514 Oct 02 20:52	11°M04'23			8515 Sep 21 13:57	o° m ₊	
evening max el	8514 Oct 10 17:06	20°Mo2'53	26°02'06	evening max el	8515 Sep 22 07:19	0°M42'34	24°35'26
retrograde	8514 Oct 24 15:19	27°M06'37		retrograde	8515 Oct 06 02:21	7° M 38'31	
evening set	8514 Oct 31 00:32	25°M29'39		evening set	8515 Oct 11 08:58	6°M36'34	
min. Earth dist.	8514 Nov 04 05:59	22°M54'45	0.58515 AU	min. Earth dist.	8515 Oct 16 18:18	3°M48'50	0.56629 AU
inferior conj	8514 Nov 07 09:19	20°M37'22	-4°55'57	inferior conj	8515 Oct 19 09:13	2°M08'52	-5°32'36
minimum elong	8514 Nov 07 16:11	20°M24'47	4°54'25	minimum elong	8515 Oct 19 11:53	2°M04'36	5°32'21
morning rise	8514 Nov 15 10:10	16° M .11'17			8515 Oct 22 22:41	30° Ŗ Ω	
direct	8514 Nov 17 16:53	15°M54'10		morning rise	8515 Oct 27 17:00	28° ≙ 05'04	
asc. node	8514 Nov 25 05:36	19° M .14'01		direct	8515 Oct 30 06:56	27° £ 46'53	
morning max el	8514 Nov 25 23:16	19°M54'54	18°34'37		8515 Nov 06 00:01	0° M	
	8514 Dec 03 12:23	0°⊀		morning max el	8515 Nov 08 20:34	2°M18'43	19°30'02
morning set	8514 Dec 12 01:35	15° ∡ 740'55		asc. node	8515 Nov 12 02:35	5°M53'54	
	8514 Dec 19 12:18	ರ∘ರ		morning set	8515 Nov 26 03:55	0° ₮ 09'26	
					8515 Nov 26 02:03	0° ∡ ¹	
superior conj	8514 Dec 20 21:28	2° る 35'31	1°03'38				
minimum elong	8514 Dec 21 00:51	2° る 51'17	1°03'23	superior conj	8515 Dec 04 03:38	16° ₰ 08'48	1°24'09
max. Earth dist.	8514 Dec 28 06:10	15° る 52'24	1.40063 AU	minimum elong	8515 Dec 04 06:25	16° ≯ 22'26	1°24'03
desc. node	8514 Dec 29 19:50	18° る 35'04		max. Earth dist.	8515 Dec 10 12:03	28° ₮ 13'40	1.37887 AU
evening rise	8515 Jan 01 10:17	22° る 59'25			8515 Dec 11 11:18	o°ප	
	8515 Jan 05 16:55	0° ≈		evening rise	8515 Dec 14 05:22	4° る 55'51	
	8515 Jan 26 05:00	0° ℋ		desc. node	8515 Dec 16 16:51	9° る 14'19	
evening max el	8515 Feb 05 05:30	11°)(45'49	23°52'22		8515 Dec 29 17:17	0° ≈	
retrograde	8515 Feb 16 04:31	18° 升 12'48		evening max el	8516 Jan 18 18:39	25° ≈ 33'04	25°09'14
evening set	8515 Feb 21 09:45	16°) €02'21			8516 Jan 24 01:25	0° ℋ	
asc. node	8515 Feb 21 04:40	16° 升 12'55		retrograde	8516 Jan 30 17:49	2° ∺ 28'56	
min. Earth dist.	8515 Feb 26 04:15	10°) 30′34	0.68262 AU	evening set	8516 Feb 05 11:44	0° ₩ 05'51	
inferior conj	8515 Feb 26 20:42	9° ∺ 34'36	1°45'48		8516 Feb 05 14:29	30°R≈	
minimum elong	8515 Feb 26 18:39	9°) 41′38	1°45'11	asc. node	8516 Feb 08 01:44	27° ≈ 28′09	
morning rise	8515 Mar 04 03:33	3° ∺ 31'16		min. Earth dist.	8516 Feb 09 22:41	25° ≈ 08'45	0.67673 AU
direct	8515 Mar 08 05:08	1°) 57′49		inferior conj	8516 Feb 11 02:38	23° ≈ 37'38	0°59'10
morning max el	8515 Mar 16 04:53	6°) 30′33	20°32'22	minimum elong	8516 Feb 11 01:15	23° ≈ 42'07	0°58'45
desc. node	8515 Mar 27 19:32	21° ₩ 08'19		morning rise	8516 Feb 16 15:05	17° ≈ 41'58	
	8515 Apr 02 21:58	0° Υ		direct	8516 Feb 20 04:11	16° ≈ 29'42	
morning set	8515 Apr 14 04:27	17° Y 06′04		morning max el	8516 Feb 27 07:56	20° ≈ 27'41	19°27'11
	8515 Apr 22 08:42	0°8			8516 Mar 06 02:03	0° ∀	
max. Earth dist.	8515 Apr 23 03:36	1° 8 16'04	1.43453 AU	greatest brilliancy	8516 Mar 11 03:26	7° ℋ 18'19	-0.7m
				desc. node	8516 Mar 13 16:28	11° 米 06′25	
superior conj	8515 Apr 29 14:52	11° 8 52'09		morning set	8516 Mar 23 02:48	25°) € 30'37	
minimum elong	8515 Apr 29 17:58	12° 8 05'05	2°09'29		8516 Mar 26 00:32	0° Υ	
	8515 May 10 05:02	0°II		max. Earth dist.	8516 Apr 04 17:11	15° Y 08'59	1.44803 AU
evening rise	8515 May 11 22:39	3° Ⅱ 02'29			0516 4 00 15 50	2100024157	2000151
asc. node	8515 May 20 03:32	17° Ⅱ 14'11	10005100	superior conj	8516 Apr 08 15:50	21° Υ 24'57	
evening max el	8515 May 29 00:16	29° Ⅱ 34'29	18°05'22	minimum elong	8516 Apr 08 12:26	21°Υ11'23	2°09'49
. 1	8515 May 29 10:55	0.ಪ			8516 Apr 13 23:35	0°8	
retrograde	8515 Jun 04 11:57	2°\$55'37 2°\$20'33		evening rise	8516 Apr 22 17:31	14° ႘ 26'30 0° Ⅱ	
evening set	8515 Jun 07 04:22				8516 May 02 03:00	0° П 6° П 00'11	
: <i>c</i> :	8515 Jun 10 17:21	30°RⅡ 27°Ⅲ15'00	2027147	asc. node	8516 May 06 00:35	12° Д 58'19	10017100
inferior conj	8515 Jun 13 14:31	27° Ⅱ 15'08 27° Ⅱ 07'57		evening max el	8516 May 11 13:33	12°Щ38′19 16°Щ22'56	18°17'08
minimum elong	8515 Jun 13 17:21 8515 Jun 16 15:13	24° I I12'06	2 33 36 0.61765 AU	retrograde	8516 May 17 22:56	16 П 22 36 15° П 34'48	
min. Earth dist.	8515 Jun 20 04:16	24 H 12 06 21° H 12'15	0.01/03 AU	evening set	8516 May 20 22:33	13 Д 3448 10° Д 11'16	3°08'52
morning rise	8515 Jun 20 04:16 8515 Jun 23 19:08	19° П 20'35		inferior conj	8516 May 26 20:58	10°Щ11116 10°Щ06'13	3°08'32 3°08'26
desc. node direct		19 II 20 33 18° II 50′59		minimum elong min. Earth dist.	8516 May 26 22:45	7° П 23'44	0.63860 AU
	8515 Jun 26 21:23		27°55'51		8516 May 29 08:10	7 П 23 44 3° П 57'23	0.03800 AU
morning max el	8515 Jul 11 01:54	26° Щ 31°48 0° ©	41 33 31	morning rise direct	8516 Jun 01 21:44 8516 Jun 08 15:15	1° П 17'29	
	8515 Jul 14 00:47	0ം ೮ ೧.ನಾ		direct desc. node	8516 Jun 08 15:15 8516 Jun 09 16:09	1° П 1/29 1° П 20'58	
morning set	8515 Aug 03 14:41	0°87 19° Ω 00'53				1°Щ20'58 9°Щ19'03	27020112
morning set	8515 Aug 16 02:55			morning max el	8516 Jun 22 10:59		21 38 43
asc. node	8515 Aug 16 02:55	24° Ω 15'55			8516 Jul 08 13:27	0.ಲ	
mov Fd- U	8515 Aug 18 19:12	0°M)	1 21007 411		8516 Jul 25 22:30	0° Ω 2° Ω 48'39	
max. Earth dist.	8515 Aug 19 06:02	0° Mp 58′42	1.31997 AU	morning set	8516 Jul 27 08:49		1 22020 411
gunariar car:	9515 Av. 21 01:07	10 m 5 1101	0040117	max. Earth dist.	8516 Aug 01 07:20		1.32829 AU
superior conj	8515 Aug 20 22:10	4° Mp 54'01	0°48'17	asc. node	8516 Aug 01 23:52	14° Ω 21'27	
minimum elong	8515 Aug 20 23:10	4° Mp 43'20	0°47'49	aumoni '	0516 A 04 07 20	100 0 1715 1	0022110
evening rise	8515 Aug 27 20:14	19° m 46'03		superior conj	8516 Aug 04 07:28	19° Ω 17'51	0°23'18

minimum elong	8516 Aug 04 06:22	19° Ω 11'54	0°22'56		8517 Jul 17 17:19	$0^{\circ}\Omega$	
evening rise	8516 Aug 09 06:13 8516 Aug 11 07:49	0° Mp 4° Mp 26′02		superior conj	8517 Jul 19 08:00	3° Ω 20′20	0°05'24
evening rise	8516 Aug 25 00:47	4 11√20 02 0° Ω		minimum elong	8517 Jul 19 08:00 8517 Jul 19 08:18	3° Ω 20'20	
evening max el	8516 Sep 02 18:29	0 — 10° Ω 55'24	22°56'19	behind sun begin	8517 Jul 19 02:53	2°Ω53'41	0 00 00
desc. node	8516 Sep 05 15:04	13° £ 25′50		behind sun end	8517 Jul 19 13:43	3° £ 50′10	
retrograde	8516 Sep 16 01:18	17° ≏ 33'35		asc. node	8517 Jul 19 20:50	4° Ω 27'21	
evening set	8516 Sep 19 19:46	17° ≏ 02'27		evening rise	8517 Jul 26 17:52	18° Ω 57'38	
min. Earth dist.	8516 Sep 27 02:58	13° ≏ 43'57	0.55254 AU		8517 Aug 01 04:54	0° ™	
inferior conj	8516 Sep 28 13:57	12° ჲ 53'36	-5°25'55	evening max el	8517 Aug 15 11:48	21°M)17'36	21°21'28
minimum elong	8516 Sep 28 09:07	13° ≏ 00'35	5°25'23	desc. node	8517 Aug 23 12:11	26° Mp 37'09	
morning rise	8516 Oct 07 00:29	9° ≏ 04'20		retrograde	8517 Aug 27 14:47	27° m) 18'13	
direct	8516 Oct 10 02:04	8° ≏ 42'23		evening set	8517 Aug 30 02:00	27° Mp 04'11	
morning max el	8516 Oct 21 05:09	13° ≏ 55'05	20°47'45	inferior conj	8517 Sep 08 07:17	23° Mp 06'47	
asc. node	8516 Oct 28 23:33	23° £ 33'36		minimum elong	8517 Sep 07 21:45	~	4°21'25
	8516 Nov 01 20:39	0°M		min. Earth dist.	8517 Sep 08 11:39	23° Mp 00'39	0.54681 AU
morning set	8516 Nov 09 11:27	14°M50'52		morning rise	8517 Sep 16 18:15	19° m) 14'47	
	9516 N 16 21-25	00.715114	1927110	direct	8517 Sep 20 10:49	18° Mp 45'21	22924126
superior conj minimum elong	8516 Nov 16 21:35 8516 Nov 16 23:10	0° ₹ 15'14 0° ₹ 23'19	1°36'24	morning max el	8517 Oct 03 01:32 8517 Oct 07 20:48	24° ™ 44'43 0° ₽	22°24'26
minimum elong	8516 Nov 16 23.10 8516 Nov 16 18:37	0° x ⁻2319	1 30 24	asc. node	8517 Oct 07 20:48 8517 Oct 15 20:32	0 <u>≈</u> 11° ≏ 59'19	
max. Earth dist.	8516 Nov 21 20:13	0 ✗ 10° ♐ 09'01	1.35854 AU	morning set	8517 Oct 13 20:32 8517 Oct 24 22:01	29° £ 39'05	
evening rise	8516 Nov 25 19:26	17° 🖈 42'20	1.55654 AC	morning set	8517 Oct 24 22:01 8517 Oct 25 01:59	0° M	
desc. node	8516 Dec 02 13:53	29° х 44'29			0317 000 23 01.37	0 110	
	8516 Dec 02 17:32	ი გ		superior conj	8517 Oct 31 23:44	14° M 44'20	1°41'05
	8516 Dec 23 00:20	0° ≈		minimum elong	8517 Nov 01 00:00	14° M 45'44	1°41'14
evening max el	8516 Dec 31 07:41	9° ≈ 18'43	26°15'42	max. Earth dist.	8517 Nov 04 11:30	22°M02'29	1.34147 AU
retrograde	8517 Jan 13 02:13	16° ≈ 32'38			8517 Nov 08 10:27	0° ∡ ⊓	
evening set	8517 Jan 19 08:25	14° ≈ 00′25		evening rise	8517 Nov 09 00:39	1° ∡ ¹09'25	
min. Earth dist.	8517 Jan 23 12:48	9° ≈ 37'53	0.66701 AU	desc. node	8517 Nov 19 10:56	20° ∡ °00'38	
asc. node	8517 Jan 24 22:49	7° ≈ 53'44			8517 Nov 25 17:27	0°ಕ	
inferior conj	8517 Jan 25 04:18	7° ≈ 36'50	0°04'35	evening max el	8517 Dec 13 20:54	22° る 56'08	27°04'24
minimum elong	8517 Jan 25 04:11	7° ≈ 37'14	0°04'41		8517 Dec 24 21:00	0° ≈	
transit middle	8517 Jan 25 04:11	7° ≈ 37'14	0°04'41	retrograde	8517 Dec 27 04:56	0° ≈ 16'48	
transit begin	8517 Jan 25 01:26	7° ≈ 45'41			8517 Dec 29 10:46	30°೩₹	
transit end	8517 Jan 25 06:56	7°≈28'48		evening set	8518 Jan 02 21:47	27° る 40'51	
morning rise	8517 Jan 31 00:42	1°≈50'48		min. Earth dist.	8518 Jan 06 20:30	23°る52'18	0.65370 AU
direct	8517 Feb 03 02:47	0°≈56'51	10027141	inferior conj	8518 Jan 08 23:36	21°る28'00	
morning max el	8517 Feb 09 18:09	4°≈32'33	18°37'41	minimum elong	8518 Jan 09 01:16	21° る 23'14	0°56'24
desc. node	8517 Feb 27 16:17 8517 Feb 28 13:24	0° ∺ 1° ∺ 23'02		asc. node morning rise	8518 Jan 11 19:53 8518 Jan 15 06:03	18°る25'49 15°る53'54	
morning set	8517 Mar 02 18:35	4° € 52′26		direct	8518 Jan 17 22:58	15° る 14'31	
morning set	6517 Wai 02 16.55	4 N 32 20		morning max el	8518 Jan 24 09:22	13 3 1431	18°04'47
superior conj	8517 Mar 18 23:25	0° Υ 17'08	-1°50'04	morning max cr	8518 Feb 01 22:10	0° ≈	10 0447
minimum elong	8517 Mar 18 14:19	29°) (41'30		morning set	8518 Feb 11 15:36	15° ≈ 42'42	
max. Earth dist.	8517 Mar 18 10:55	29°) (28'14	1.45472 AU	desc. node	8518 Feb 15 10:21	21° ≈ 53'04	
	8517 Mar 18 19:02	$0^{\circ}\mathbf{\Upsilon}$			8518 Feb 20 10:55	0° ∀	
evening rise	8517 Apr 03 12:47	24° Y 51'35					
	8517 Apr 06 18:00	9° 8		superior conj	8518 Feb 26 06:49	9° ¥ 16'35	-1°13'15
greatest brilliancy	8517 Apr 11 15:26	7° 8 47'27	-0.9m	minimum elong	8518 Feb 25 22:33	8°){ 43'54	
asc. node	8517 Apr 22 21:39	24° 8 09'35		max. Earth dist.	8518 Mar 01 06:28		1.45403 AU
evening max el	8517 Apr 25 00:47	26° 8 31'16	18°46'54		8518 Mar 11 13:22	0° Υ	
	8517 Apr 30 05:15	$0^{\circ}\Pi$		evening rise	8518 Mar 14 10:58	4° Υ 29'24	
retrograde	8517 May 01 16:41	0° Ⅱ 12'09		greatest brilliancy	8518 Mar 27 13:17	24° Ƴ 32'21	-0.7m
. ,	8517 May 03 03:35	30°R8			8518 Mar 31 06:55	0°8	10022127
evening set	8517 May 04 23:45	29° 8 09'52	2022101	evening max el	8518 Apr 08 07:57	_	19°33'27
inferior conj minimum elong	8517 May 10 14:12 8517 May 10 14:39	23° 8 29'56 23° 8 28'33	3°22'01 3°21'50	asc. node retrograde	8518 Apr 09 18:45 8518 Apr 15 14:04	11° 8 31'31 14° 8 17'31	
min. Earth dist.	8517 May 10 14.39 8517 May 12 10:13	23 6 28 33 21° 6 13'37	0.65635 AU	evening set	8518 Apr 19 05:17	13° 8 00'22	
morning rise	8517 May 16 04:55	17° 8 11'50	3.03033 AU	inferior conj	8518 Apr 24 14:58		3°20'14
direct	8517 May 10 04:33 8517 May 22 16:44	14° 8 25'09		minimum elong	8518 Apr 24 14:13	7° 8 08'04	3°20'04
desc. node	8517 May 27 13:09	15° 8 41'55		min. Earth dist.	8518 Apr 25 19:57	5° 8 29'52	0.66998 AU
morning max el	8517 Jun 04 21:30	22° 8 14'36	26°49'28	morning rise	8518 Apr 29 22:47	0° 8 47'28	-
Č	8517 Jun 11 16:38	0°II		Ç	8518 Apr 30 21:35	30° ₹ Υ	
	8517 Jul 01 19:26	0°€		direct	8518 May 06 00:34	28° Y 05'35	
morning set	8517 Jul 10 16:44	16° © 03'11			8518 May 11 18:32	0° ႘	
max. Earth dist.	8517 Jul 14 22:42	24° 5 21'44	1.34146 AU	desc. node	8518 May 14 10:09	1° 8 53'29	

morning max el	8518 May 18 07:23 8518 Jun 06 04:56 8518 Jun 23 10:09	5° 8 27′02 0° Ⅱ 28° Ⅱ 33′54	25°36'45	morning max el desc. node	8519 Apr 30 16:26 8519 May 01 07:06 8519 May 10 03:02	18° Y 48'22 19° Y 26'00 0° と	24°10'38
max. Earth dist.	8518 Jun 24 04:59 8518 Jun 27 03:09	0° ട 5° ട് 27'16	1.35930 AU	morning set	8519 May 30 07:33 8519 Jun 05 08:00	0° П 10° П 07'27	
				max. Earth dist.	8519 Jun 09 00:33	16° Ⅱ 37'15	1.38058 AU
superior conj minimum elong	8518 Jul 03 00:05 8518 Jul 03 02:16	16°\$54'46 17°\$05'46		superior conj	8519 Jun 16 04:18	29° ∏ 52'37	1000125
asc. node	8518 Jul 06 17:51	24°\$29'54	0 30 23	minimum elong	8519 Jun 16 08:34	0° © 13'04	
use. Houe	8518 Jul 09 10:11	0°Ω		minimum ciong	8519 Jun 16 05:50	0°9	1 00 05
evening rise	8518 Jul 11 00:19	3° Ω 15'11		asc. node	8519 Jun 23 14:53	14° 5 25'19	
C	8518 Jul 26 15:04	0° m		evening rise	8519 Jun 25 00:36	17° © 11'53	
evening max el	8518 Jul 28 17:36	2° m 17'01	20°02'15		8519 Jul 01 17:48	$0^{\circ}\Omega$	
retrograde	8518 Aug 08 04:35	7° ™ 26'45		evening max el	8519 Jul 11 12:19	14° Ω 01'33	19°03'17
evening set	8518 Aug 10 02:08	7° m ∤17'18		retrograde	8519 Jul 20 07:42	18° Ω 23'12	
desc. node	8518 Aug 10 09:18	7° m 14'10		evening set	8519 Jul 22 05:46	18° Ω 11'37	
inferior conj	8518 Aug 19 03:00	3°Mp 18'01		desc. node	8519 Jul 28 06:22	15° Ω 30'40	
minimum elong	8518 Aug 18 19:48	3°m/28'49	2°36'04	inferior conj	8519 Jul 30 14:13	13° Ω 57'34	
min. Earth dist.	8518 Aug 20 22:16	2° Mp 13'11	0.55065 AU	minimum elong	8519 Jul 30 12:23	14° Ω 00'43	0°42'09
morning rise	8518 Aug 25 01:36 8518 Aug 27 11:59	30°R Ω 29° Ω 03'24		min. Earth dist. morning rise	8519 Aug 02 12:19 8519 Aug 07 15:55	11° Ω 57'32 9° Ω 07'17	0.56335 AU
morning rise direct	8518 Aug 31 22:47	29° Ω 20'18		direct	8519 Aug 12 22:38	8°Ω02'03	
direct	8518 Sep 07 15:01	0° M)		morning max el	8519 Aug 27 03:41	15°Ω18'58	25°50'03
morning max el	8518 Sep 14 14:34	5° mp 02'57	24°10'24	morning max cr	8519 Sep 07 23:04	0° m	25 50 05
morning man er	8518 Oct 02 04:46	0∘ ʊ	2. 102.	asc. node	8519 Sep 19 14:29	20° m 25'48	
asc. node	8518 Oct 02 17:30	0° £ 59'41		morning set	8519 Sep 23 21:02	29° m 15'09	
morning set	8518 Oct 09 09:45	14° ≏ 28'42		C	8519 Sep 24 05:26	0∘ ⊽	
superior conj	8518 Oct 16 07:16	29° ≏ 27'15	1°39'20	superior conj	8519 Sep 30 17:57	14° ≙ 17′20	1°31'42
minimum elong	8518 Oct 16 06:22	29° ჲ 22'23	1°39'23	minimum elong	8519 Sep 30 16:12	14° ≏ 07'43	1°31'35
	8518 Oct 16 13:17	0°M		max. Earth dist.	8519 Oct 01 17:54	16° £ 29'31	1.32030 AU
max. Earth dist.	8518 Oct 18 11:20	4°M08'46	1.32864 AU	evening rise	8519 Oct 07 18:16	29° Ω 26'35	
evening rise	8518 Oct 23 17:18	15°M07'00 0°⊀		desc. node	8519 Oct 08 00:41 8519 Oct 24 05:07	0° ጤ 29° ጤ 21'19	
desc. node	8518 Oct 31 12:22 8518 Nov 06 08:01	0 x . 9° x 755'47		desc. node	8519 Oct 24 05:07 8519 Oct 24 15:11	29 II621 19 0° √ 7	
dese. Hode	8518 Nov 20 13:39	0° る		evening max el	8519 Nov 08 17:40	18° ×7 56'49	27°21'00
evening max el	8518 Nov 26 09:02	6° ට 13'15	27°28'08	retrograde	8519 Nov 22 13:36	26° х 10′09	_,
retrograde	8518 Dec 10 00:59	13° る 32'08		evening set	8519 Nov 29 15:39	23° ₹ 50'56	
evening set	8518 Dec 17 01:17	10° る 59'58		min. Earth dist.	8519 Dec 03 08:03	21° 尽 00′22	0.61797 AU
min. Earth dist.	8518 Dec 20 19:30	7° る 43'12	0.63717 AU	inferior conj	8519 Dec 06 08:02	18° ∡ 17'31	-3°15'34
inferior conj	8518 Dec 23 09:52	5° ⋜ 04'04		minimum elong	8519 Dec 06 14:13	18° ₹ 03'30	3°13'13
minimum elong	8518 Dec 23 13:47	4°る54'00	2°03'15	morning rise	8519 Dec 13 15:00	13° ∡ 17'00	
asc. node	8518 Dec 29 16:59	29° 🖈 56'52		direct	8519 Dec 15 20:47	12° 🖈 55'21	
	8518 Dec 29 14:18	30°₹ ⋌ ⁷		asc. node	8519 Dec 16 14:01	12° × 57'38	17051110
morning rise direct	8518 Dec 30 04:06 8519 Jan 01 14:07	29° х 45′01 29° х 16′18		morning max el	8519 Dec 22 19:01 8520 Jan 01 07:58	16° 渘 25'44 0°る	17-31-18
direct	8519 Jan 04 13:21	29 メ ・10 18		morning set	8520 Jan 07 12:55	0 3 11° る 00'59	
morning max el	8519 Jan 08 02:41	2°る39'23	17°49'04	morning set	0320 Juli 07 12.33	11 00037	
morning set	8519 Jan 24 15:50	27° る 52'12		superior conj	8520 Jan 18 09:43	0° ≈ 14'00	0°13'07
C	8519 Jan 25 21:38	0°≈		minimum elong	8520 Jan 18 10:54	0° ≈ 19'07	0°13'06
desc. node	8519 Feb 02 07:17	12° ≈ 31'35		behind sun begin	8520 Jan 18 05:56	29° る 57'50	
				behind sun end	8520 Jan 18 15:53	0° ≈ 40′23	
superior conj	8519 Feb 06 07:35	19° ≈ 08'32	-0°29'00		8520 Jan 18 06:27	0°≈	
minimum elong	8519 Feb 06 04:24	18° ≈ 55'33		desc. node	8520 Jan 20 04:16	3°≈15'10	
max. Earth dist.	8519 Feb 12 01:15	28°≈22'58	1.44610 AU	max. Earth dist.	8520 Jan 25 16:43		1.43181 AU
	8519 Feb 13 01:42	0°) (40!2€		evening rise	8520 Feb 01 14:31	23°≈26'52	
evening rise	8519 Feb 21 22:26 8519 Mar 04 15:35	13°) 48′36 0° Υ			8520 Feb 05 20:14 8520 Feb 26 19:42	0° ℋ 0° Ƴ	
evening max el	8519 Mar 04 15:35 8519 Mar 22 09:46	0° γ 23° Υ 48'38	20°34'40	evening max el	8520 Feb 26 19:42 8520 Mar 04 06:05	0° γ 7° Υ 28'48	21°47'11
asc. node	8519 Mar 27 15:52	27° Υ 51'41	20 2440	retrograde	8520 Mar 13 10:24	12° Υ 54'56	±1 T/11
retrograde	8519 Mar 30 12:36	28° Y 33'15		asc. node	8520 Mar 13 12:59	12° Υ 54'52	
evening set	8519 Apr 03 13:01	27° Υ 00'48		evening set	8520 Mar 17 21:08	11° Υ 07'09	
inferior conj	8519 Apr 08 20:30	20° Y 52'59	3°06'22	inferior conj	8520 Mar 23 04:36	4° Ƴ 48'45	2°42'14
minimum elong	8519 Apr 08 18:52	20° Y 58'37	3°06'04	minimum elong	8520 Mar 23 02:27	4° Y 56'14	
min. Earth dist.	8519 Apr 09 11:29	20° ℃ 01'35	0.67909 AU	min. Earth dist.	8520 Mar 23 06:42	4° Υ 41'26	0.68373 AU
morning rise	8519 Apr 14 00:30	14° Υ 37'14			8520 Mar 26 21:59	30° ₹	
direct	8519 Apr 19 13:31	12° Y 09′20		morning rise	8520 Mar 28 07:37	28° ∺ 36'46	

direct	8520 Apr 02 06:40	26° ¥ 28'35		minimum elong	8521 Mar 07 11:05	18° ¥ 57'49	2°08'18
direct	8520 Apr 02 00:40 8520 Apr 09 15:51	20 γ (28 33		morning rise	8521 Mar 12 18:01	18 X 37 49	2 00 10
morning max el	8520 Apr 12 02:50	2° Υ 17'08	22°40'56	direct	8521 Mar 17 03:09	12 X 4308	
desc. node	8520 Apr 17 04:03	7° Υ 57'08	22 40 30	morning max el	8521 Mar 25 17:54	15°) 55'47	21°16'17
dese. Hode	8520 May 03 03:02	0°8		desc. node	8521 Apr 04 00:59	27° H 10'49	21 1017
morning set	8520 May 16 04:48	20° 8 29'48		dese. Hode	8521 Apr 06 02:17	0° Υ	
max. Earth dist.	8520 May 20 21:43	28° 8 22'15	1.40309 AU	morning set	8521 Apr 25 22:17	29° Ƴ 37'29	
max. Dartii dist.	8520 May 21 20:34	0°II	1.10307110	morning sec	8521 Apr 26 04:00	0°8	
	0320 May 21 20.3 I	٠ <u>ــ</u>		max. Earth dist.	8521 May 02 23:49	10° 8 58'21	1.42406 AU
superior conj	8520 May 28 16:23	12° Ⅱ 02'58	-1°38'22			0	
minimum elong	8520 May 28 22:09	12° Ⅱ 29'09		superior conj	8521 May 10 07:38	23° 8 15'35	-2°01'29
	8520 Jun 07 07:18	0°ಅ		minimum elong	8521 May 10 12:47	23° 8 37'43	
evening rise	8520 Jun 07 15:27	0°938'35			8521 May 14 04:44	0°II	
asc. node	8520 Jun 09 11:55	4°908'37		evening rise	8521 May 21 16:50	13° Ⅱ 25'28	
evening max el	8520 Jun 23 16:55	26°525'29	18°25'07	asc. node	8521 May 27 08:57	23° I I34'56	
* · · · · · · · · · · · · · · · · · · ·	8520 Jun 29 12:46	0°Ω			8521 May 31 04:11	0°ಅ	
retrograde	8520 Jul 01 05:48	0°Ω11'35		evening max el	8521 Jun 07 03:42	9° 5 20'14	18°07'05
	8520 Jul 02 23:34	30°Rூ		retrograde	8521 Jun 13 21:30	12°9346'06	
evening set	8520 Jul 03 10:11	29°953'29		evening set	8521 Jun 16 09:28	12°918'05	
inferior conj	8520 Jul 10 22:50	25°919'38	0°56'12	inferior conj	8521 Jun 23 04:15	7°924'07	2°07'46
minimum elong	8520 Jul 11 00:45	25°915'47	0°55'21	minimum elong	8521 Jun 23 07:16	7° © 17'00	2°06'43
desc. node	8520 Jul 14 03:26	22°545'40		min. Earth dist.	8521 Jun 26 10:42	4°921'23	0.60468 AU
min. Earth dist.	8520 Jul 14 07:48	22°937'17	0.58246 AU	morning rise	8521 Jun 30 02:22	1°931'21	0.00100110
morning rise	8520 Jul 18 11:53	19°953'23	0.002.0110	desc. node	8521 Jul 01 00:28	0°958'31	
direct	8520 Jul 24 12:47	18°9518'20		***************************************	8521 Jul 03 04:51	30° Ŗ Ⅱ	
morning max el	8520 Aug 07 22:14	26°900'11	27°06'44	direct	8521 Jul 06 15:50	29° II 25'02	
morning man vi	8520 Aug 11 16:23	0° Ω	2, 00		8521 Jul 10 05:44	0°9	
	8520 Aug 31 07:57	0° m)		morning max el	8521 Jul 20 23:32	7° 5 22'18	27°48'54
asc. node	8520 Sep 05 11:26	10° mp 09'38			8521 Aug 07 03:11	0°N	_,
morning set	8520 Sep 07 06:07	13° m 52'21		morning set	8521 Aug 22 11:14	28° Ω 15'16	
morning sec	0020 Sep 07 00.07	13		asc. node	8521 Aug 23 08:24	0° mp 05'46	
superior conj	8520 Sep 14 05:45	29° m 07'13	1°18'43		8521 Aug 23 07:18	0° m)	
minimum elong	8520 Sep 14 03:33	28° m 55'03	1°18'23	max. Earth dist.	8521 Aug 28 13:12	11° m) 18'50	1.31733 AU
max. Earth dist.	8520 Sep 14 03:46	28° m 56'14	1.31650 AU			•	
man. Barur dibu	8520 Sep 14 15:15	0° ರ	1.51000110	superior conj	8521 Aug 29 16:55	13° m 51'40	1°00'45
evening rise	8520 Sep 21 00:50	13° ♀ 59'35		minimum elong	8521 Aug 29 14:43	13° m/39'36	1°00'18
	8520 Sep 29 01:25	0° M		evening rise	8521 Sep 05 10:52	28° m/39'58	
desc. node	8520 Oct 10 02:12	18°ML04'23			8521 Sep 06 01:51	0∘ ಹ	
	8520 Oct 19 21:44	0° ∡ ¹			8521 Sep 22 15:47	0° M	
evening max el	8520 Oct 20 19:57	0° х 53'47	26°40'05	desc. node	8521 Sep 26 23:17	5°M48'29	
retrograde	8520 Nov 03 17:52	8° х 01′33		evening max el	8521 Oct 02 14:18	11°ML59'59	25°27'41
evening set	8520 Nov 10 12:41	6° х ¹06′02		retrograde	8521 Oct 16 12:14	19° ML 01'44	
min. Earth dist.	8520 Nov 14 09:47		0.59714 AU	evening set	8521 Oct 22 11:31	17°MJ39'24	
inferior conj	8520 Nov 17 14:35	0° ≯ 58'25		min. Earth dist.	8521 Oct 27 02:25	15°ML01'10	0.57671 AU
minimum elong	8520 Nov 17 21:58	0° × ⁷ 43'47		inferior conj	8521 Oct 30 02:17	12°ML57'40	
	8520 Nov 18 20:24	30°RM		minimum elong	8521 Oct 30 07:56	12°M47'54	
morning rise	8520 Nov 25 09:41	26°M19'36		morning rise	8521 Nov 07 06:41	8°M41'34	
direct	8520 Nov 27 14:42	26°ML01'47		direct	8521 Nov 09 15:36	8°M24'30	
asc. node	8520 Dec 02 11:02	27°M32'29		morning max el	8521 Nov 18 10:35	12°MJ37'28	18°55'25
	8520 Dec 05 11:32	0° %		asc. node	8521 Nov 19 08:02	13°MJ31'24	
morning max el	8520 Dec 05 06:53	29°M48'33	18°12'53		8521 Nov 30 04:59	0° ∡ ¹	
morning set	8520 Dec 21 00:48	24° ₹ 50'50		morning set	8521 Dec 04 22:54	9° × 108'21	
morning sec	8520 Dec 23 18:17	0°ਰ		morning sec	0021 000 01 22.01	, , oo <u>-</u> 1	
				superior conj	8521 Dec 13 09:19	25° ∡ ³37'03	1°13'24
superior conj	8520 Dec 30 11:54	12° る 28'15	0°47'46	minimum elong	8521 Dec 13 12:34	25° х 52'31	
minimum elong	8520 Dec 30 15:04	12° る 42'34		mmam viong	8521 Dec 15 17:03	0°ਰ	
desc. node	8521 Jan 06 01:15	24°る00'10	- -/	max. Earth dist.	8521 Dec 20 09:06	8° ವ 30'56	1.39132 AU
max. Earth dist.	8521 Jan 07 03:00	25° る 49'42	1.41277 AU	desc. node	8521 Dec 23 22:13	14° る 42'50	
	8521 Jan 09 14:45	0°≈		evening rise	8521 Dec 24 06:19	15° ට 17'31	
evening rise	8521 Jan 11 23:29	3°≈52'50			8522 Jan 02 06:25	0°≈	
2 . J 1100	8521 Jan 29 03:18	0° \			8522 Jan 23 21:51	0° ₩	
evening max el	8521 Feb 14 22:02	21°) 11'11	23°06'18	evening max el	8522 Jan 28 11:43	4° ¥ 57'15	24°25'58
retrograde	8521 Feb 25 05:56	27° H 18'20	25 00 10	retrograde	8522 Feb 08 21:50	11° H 38'28	2.2550
asc. node	8521 Feb 28 10:03	26°\(\frac{1}{2}\)28'29		evening set	8522 Feb 14 08:18	9°\(\frac{11}{22}\)'29	
evening set	8521 Mar 02 04:05	25° X 15'48		asc. node	8522 Feb 15 07:08	8° \ 22'29	
min. Earth dist.	8521 Mar 07 03:27	19° H 24'10	0.68411 AU	min. Earth dist.	8522 Feb 18 23:28	4° ₩ 05'12	0.68051 AU
inferior conj	8521 Mar 07 13:18	19 X 24 10 18° X 50'07		inferior conj	8522 Feb 19 20:47	2° ∺ 53'44	
microi conj	5521 WIGH 0 / 15.10	10 /(300/	2 00 30	microi conj	0522100 17 20.4/	2 N 33 44	1 2/02

minimum elong	8522 Feb 19 18:57	2° 升 59'54	1°26'28	morning rise	8523 Feb 09 16:43	11° ≈ 04'21	
	8522 Feb 22 02:29	30° R ≈		direct	8523 Feb 13 01:00	10° ≈ 00'07	
morning rise	8522 Feb 25 05:42	26° ≈ 53'13		morning max el	8523 Feb 19 22:26	13° ≈ 47′05	19°04'02
direct	8522 Mar 01 01:45	25° ≈ 29'05			8523 Mar 04 03:50	0° ∀	
morning max el	8522 Mar 08 16:13	29° ≈ 45'58	20°02'47	greatest brilliancy	8523 Mar 05 14:07	2°) €09'20	-0.8m
	8522 Mar 08 21:50	0° ℋ		desc. node	8523 Mar 08 18:51	7°) €02'23	
desc. node	8522 Mar 21 21:54	16°) 55′14		morning set	8523 Mar 15 00:23	16°) (40′01	
	8522 Mar 30 16:13	0 ° $\mathbf{\gamma}$			8523 Mar 23 14:05	0 ° $\mathbf{\Upsilon}$	
morning set	8522 Apr 04 21:08	7° Ƴ 58'02		max. Earth dist.	8523 Mar 29 00:47	8° Ƴ 31'39	1.45184 AU
max. Earth dist.	8522 Apr 15 09:01	24° Y 25′01	1.44097 AU				
	8522 Apr 18 20:24	9° 8		superior conj	8523 Mar 31 14:28	12° Ƴ 34'39	-2°03'55
				minimum elong	8523 Mar 31 08:06	12° Ƴ 09'29	2°03'39
superior conj	8522 Apr 20 22:26	3° 8 23'26	-2°11'58		8523 Apr 11 11:45	8°	
minimum elong	8522 Apr 20 23:07	3° 8 26'16	2°12'03	evening rise	8523 Apr 15 08:53	6° 8 19'29	
evening rise	8522 May 04 00:00	25° 8 21'16			8523 Apr 30 07:04	Π $^{\circ}0$	
	8522 May 06 16:49	Π $^{\circ}0$		asc. node	8523 May 01 03:02	1° Ⅱ 09'00	
asc. node	8522 May 14 05:59	12° Ⅲ 37'35		evening max el	8523 May 05 05:45	6° Ⅱ 04'09	18°27'43
evening max el	8522 May 21 17:00	22° Ⅲ 35'44	18°08'14	retrograde	8523 May 11 16:42	9° Ⅱ 33'47	
retrograde	8522 May 28 02:31	25° Ⅱ 56'30		evening set	8523 May 14 19:34	8° Ⅲ 39'35	
evening set	8522 May 30 22:01	25° Ⅱ 16′05		inferior conj	8523 May 20 14:09	3° Ⅱ 08'55	3°16'28
inferior conj	8522 Jun 06 02:43	20° Ⅲ 03′05	2°52'58	minimum elong	8523 May 20 15:22	3° Ⅱ 05′18	3°16'11
minimum elong	8522 Jun 06 05:11	19° Ⅱ 56'31	2°52'19	min. Earth dist.	8523 May 22 18:56	0° Ⅲ 33'18	0.64667 AU
min. Earth dist.	8522 Jun 08 22:14	17° Ⅱ 04'03	0.62686 AU		8523 May 23 06:40	30° ₹ 8	
morning rise	8522 Jun 12 10:38	13° Ⅱ 54'39		morning rise	8523 May 26 10:17	26° 8 52'53	
desc. node	8522 Jun 17 21:30	11° Ⅱ 29'10		direct	8523 Jun 02 02:10	24° 8 08'39	
direct	8522 Jun 19 04:57	11° Ⅱ 23'43		desc. node	8523 Jun 04 18:32	24° 8 32'03	
morning max el	8522 Jul 03 06:12	19° Ⅱ 26'27	27°52'52		8523 Jun 13 11:28	0° I I	
5 5	8522 Jul 12 05:30	0ಂತಾ		morning max el	8523 Jun 15 16:00	2° Ⅱ 05'59	27°21'15
	8522 Jul 31 01:52	0°N			8523 Jul 06 11:11	0°9	
morning set	8522 Aug 06 10:18	12° Ω 17'46		morning set	8523 Jul 21 00:40	25°951'57	
asc. node	8522 Aug 10 05:22	20° Ω 09'09			8523 Jul 23 02:48	0°N	
max. Earth dist.	8522 Aug 11 18:26	23° Ω 26'40	1.32286 AU	max. Earth dist.	8523 Jul 25 15:48	5° Ω 10'04	1.33328 AU
				asc. node	8523 Jul 28 02:19	10° Ω 15'07	
superior conj	8522 Aug 14 01:36	28° Ω 24'55	0°38'11				
minimum elong	8522 Aug 13 23:56	28° Ω 15'53		superior conj	8523 Jul 29 05:47	12° Ω 40′20	0°11'33
8	8522 Aug 14 19:03	0° m		minimum elong	8523 Jul 29 05:12	12° Ω 37'16	
evening rise	8522 Aug 20 22:25	13° m) 21'55		behind sun begin	8523 Jul 29 01:16	12° Ω 16′21	
8 11	8522 Aug 29 05:44	0∘ ⊽		behind sun end	8523 Jul 29 09:09	12°Ω58'13	
desc. node	8522 Sep 13 20:22	22° ≙ 10'57		evening rise	8523 Aug 05 09:35	27° £ 59′02	
evening max el	8522 Sep 14 02:33	22° £ 25'59	23°53'54	8	8523 Aug 06 08:34	0° m	
retrograde	8522 Sep 27 18:14	29° ≙ 15'58			8523 Aug 24 03:47	0 \circ $\overline{\mathbf{v}}$	
evening set	8522 Oct 02 09:47	28° ≏ 28'40		evening max el	8523 Aug 26 15:23	2° ≏ 38'48	22°14'44
min. Earth dist.	8522 Oct 08 13:04	25° £ 29'36	0.55964 AU	desc. node	8523 Aug 31 17:29	6° £ 41'29	
inferior conj	8522 Oct 10 17:44	24° ♀ 09'50		retrograde	8523 Sep 08 11:56	9° £ 02'49	
minimum elong	8522 Oct 10 17:22	24° ♀ 10′23	5°36'07	evening set	8523 Sep 11 15:46	8° ≏ 40'44	
morning rise	8522 Oct 19 03:02	20° £ 13'16		min. Earth dist.	8523 Sep 19 21:10		0.54900 AU
direct	8522 Oct 21 21:24	19° ≙ 53'48		inferior conj	8523 Sep 20 16:15	4° £ 38'22	
morning max el	8522 Nov 01 02:42	24° ≏ 42'31	20°00'19	minimum elong	8523 Sep 20 08:38	4° £ 49'05	
	8522 Nov 05 17:30	0°M		morning rise	8523 Sep 29 03:09	0° £ 50'38	
asc. node	8522 Nov 06 05:01	0°M39'15		direct	8523 Oct 02 11:05	0° £ 25'51	
morning set	8522 Nov 19 03:49	23°M44'05		morning max el	8523 Oct 14 05:39	5° ≙ 57'45	21°26'54
	8522 Nov 22 05:23	0° ∡ 7		asc. node	8523 Oct 24 02:01	18° ≏ 40'17	
		• •			8523 Oct 30 08:33	0° M	
superior conj	8522 Nov 26 21:03	9° ∡ ¹26'34	1°30'15	morning set	8523 Nov 03 12:56	8°M29'40	
minimum elong	8522 Nov 26 23:22	9° × ⁷ 38'06	1°30'15	morning sec	0323 1101 03 12.30	0 11025 10	
max. Earth dist.	8522 Dec 02 15:26	20° х 39'42	1.36998 AU	superior conj	8523 Nov 10 18:54	23°M43'58	1°39'11
evening rise	8522 Dec 06 10:05	27°×37'43	1.50770110	minimum elong	8523 Nov 10 19:55		1°39'18
e vennig 1150	8522 Dec 07 17:54	0°る		g	8523 Nov 13 20:05	0° ∡ 7	1 37 10
desc. node	8522 Dec 10 19:15	5° ਰ 19'27		max. Earth dist.	8523 Nov 15 20:03 8523 Nov 15 02:42	2° × ⁷ 33'58	1.35089 AU
2000. 11000	8522 Dec 26 16:01	0°≈		evening rise	8523 Nov 19 07:06	10° 🖈 42'59	1.55007 710
evening max el	8523 Jan 11 01:00		25°39'14	desc. node	8523 Nov 27 16:18	25° х 44'36	
retrograde	8523 Jan 23 09:08	25°≈50'28	20 07 17	desc. Hode	8523 Nov 30 05:50	23 × 44 30	
evening set	8523 Jan 29 08:16	23°≈23'19			8523 Nov 30 03:30 8523 Dec 22 03:16	0°≈	
asc. node	8523 Feb 02 04:12	19°≈18'55		evening max el	8523 Dec 24 14:20	0 ∞ 2°≈29'55	26°38'54
min. Earth dist.	8523 Feb 02 04:12 8523 Feb 02 16:27	19 ≈18 33 18°≈40'42	0.67309 AU	retrograde	8524 Jan 06 14:58	2 ≈ 29 55 9° ≈ 46'59	20 0007
inferior conj	8523 Feb 04 01:11	16°≈56'27	0.07307 AC 0°37'00	evening set	8524 Jan 13 02:06	7°≈12'31	
minimum elong	8523 Feb 04 00:16	16°≈59'22	0°36'45	min. Earth dist.	8524 Jan 17 04:03	3°≈04'39	0.66188 AU
minimum clong	3323 1 00 04 00.10	10 743722	0 00 70	mm. Durin dist.	552 Juli 1 / UT.UJ	5 70-07 39	5.50100 AU

inferior conj	8524 Jan 19 00:27	0°≈53'02	-0°20'48	inferior conj	8525 Jan 01 16:14	14° る 38'17	-1°25'26
minimum elong	8524 Jan 19 00:27	0 ≈53 02 0°≈51'20		minimum elong	8525 Jan 01 18:50	14 3 3617 14° る 31'14	
minimum clong	8524 Jan 19 01:01	0 ≈31 20 30°Rる	0 2023	asc. node	8525 Jan 05 22:24	14 3 31 14	1 24 09
asc. node	8524 Jan 20 01:18	30 KO 29° 石 40'07		morning rise	8525 Jan 08 03:34	9° る 10'32	
morning rise	8524 Jan 25 00:53	29 34007 25° る 11'45		direct	8525 Jan 10 17:17	9 01032 8° 3 36'09	
U	8524 Jan 27 22:56	23 3 1143 24° 3 24'19			8525 Jan 17 03:39	8 03609 11° る 58'44	17055157
direct			10021125	morning max el			1/-33/30
morning max el	8524 Feb 03 11:06	27°₹53'37	18°21'35		8525 Jan 29 17:00	0° ≈	
. ,	8524 Feb 05 09:47	0° ≈		morning set	8525 Feb 03 13:26	8°≈05'06	
morning set	8524 Feb 23 04:14	26°≈39'15		desc. node	8525 Feb 09 12:44	17°≈59'28	
desc. node	8524 Feb 23 15:49	27°≈25'28			8525 Feb 16 22:27	0° ∀	
	8524 Feb 25 06:31	0° ℋ			0505 7 1 15 00 05	001/40120	005442
	050434 00 10 00	210)/22107	100 (100	superior conj	8525 Feb 17 08:35	0°) 40′30	
superior conj	8524 Mar 09 19:30	21° ∺ 23'07		minimum elong	8525 Feb 17 02:18	0°) 15′24	
minimum elong	8524 Mar 09 09:54	20°) 45′29		max. Earth dist.	8525 Feb 21 15:50	7°) €29'53	1.45151 AU
max. Earth dist.	8524 Mar 10 20:13	22°) 59′51	1.45542 AU	evening rise	8525 Mar 05 10:24	25°) 47′57	
	8524 Mar 15 07:39	0° Υ			8525 Mar 08 04:07	0° Υ	
evening rise	8524 Mar 25 18:30	16° Y 22'40		greatest brilliancy	8525 Mar 20 01:03	17° Y ′53′06	-0.6m
	8524 Apr 03 11:04	9° 8			8525 Mar 28 21:43	0°B	
greatest brilliancy	8524 Apr 05 03:57	2° 8 38'12	-0.8m	evening max el	8525 Mar 31 20:19	_	19°57'49
asc. node	8524 Apr 17 00:07	18° 8 59'50		asc. node	8525 Apr 03 21:14	5° 8 57'17	
evening max el	8524 Apr 17 15:27	19° 8 39'46	19°04'43	retrograde	8525 Apr 08 10:41	7° 8 41'17	
retrograde	8524 Apr 24 12:25	23° 8 30'59		evening set	8525 Apr 12 05:37	6° 8 17'40	
evening set	8524 Apr 27 22:55	22° 8 22'15		inferior conj	8525 Apr 17 14:03	0° 8 16'51	3°15'42
inferior conj	8524 May 03 10:57	16° 8 35'34	3°22'53	minimum elong	8525 Apr 17 12:53	0° 8 20'47	3°15'29
minimum elong	8524 May 03 10:52	16° 8 35'51	3°22'44		8525 Apr 17 19:02	30° ŖƳ	
min. Earth dist.	8524 May 05 00:22	14° 8 36'05	0.66269 AU	min. Earth dist.	8525 Apr 18 12:54	28° Y 59'51	0.67436 AU
morning rise	8524 May 08 22:21	10° 8 17'09		morning rise	8525 Apr 22 19:52	23° Y 59'18	
direct	8524 May 15 06:14	7° 8 31'33		direct	8525 Apr 28 16:18	21° Y '22'37	
desc. node	8524 May 21 15:34	9° 8 44'10		desc. node	8525 May 08 12:33	26° Ƴ 33'19	
morning max el	8524 May 28 02:32	15° 8 10'33	26°20'57	morning max el	8525 May 10 12:10	28° Ƴ 28'11	25°01'11
S	8524 Jun 09 06:01	0°II		Ü	8525 May 11 23:16	0°B	
	8524 Jun 28 06:34	0°€			8525 Jun 02 23:55	0° I I	
morning set	8524 Jul 03 02:59	8°549'22		morning set	8525 Jun 15 12:43	20° Ⅱ 57'25	
max. Earth dist.	8524 Jul 07 02:48	16°928'07	1.34852 AU	max. Earth dist.	8525 Jun 19 03:37	27° Ⅱ 31'51	1.36801 AU
					8525 Jun 20 11:27	0°ತಾ	
superior conj	8524 Jul 12 03:06	26° © 31'51	-0°18'23				
minimum elong	8524 Jul 12 04:09	26°937'16		superior conj	8525 Jun 25 14:31	9° © 51'11	-0°50'14
asc. node	8524 Jul 13 23:19	0° Ω 20'08		minimum elong	8525 Jun 25 17:36	10° © 06'21	0°49'52
	8524 Jul 13 19:26	0°N		asc. node	8525 Jun 30 20:18	20°919'45	
evening rise	8524 Jul 19 18:26	12° £ 25'51		evening rise	8525 Jul 03 22:35	26°935'03	
o vonnig rise	8524 Jul 28 20:59	0°m)		evening rise	8525 Jul 05 15:31	0°Ω	
evening max el	8524 Aug 07 13:25	13° m) 13'55	20°45'28	evening max el	8525 Jul 21 00:48	24° Ω 31'36	19°34'35
desc. node	8524 Aug 17 14:35	18° m) 49'16	20 13 20	retrograde	8525 Jul 30 18:33	29° Ω 20'13	17 5 1 5 5
retrograde	8524 Aug 19 00:12	18° m 54'12		evening set	8525 Aug 01 14:52	29°Ω10'36	
evening set	8524 Aug 21 03:27	18° Mp 43'10		desc. node	8525 Aug 04 11:42	28° Ω 20'43	
inferior conj	8524 Aug 30 08:43	14° m) 46'21	-3°42'49	inferior conj	8525 Aug 10 09:42	25°Ω06'12	-1°48'45
minimum elong	8524 Aug 29 23:25	14° m 59'38		minimum elong	8525 Aug 10 04:46		1°46'59
min. Earth dist.	8524 Aug 31 06:12	14° Mp 15'38		min. Earth dist.	8525 Aug 10 04:40 8525 Aug 12 18:17	23°Ω36'48	0.55500 AU
morning rise	8524 Sep 07 19:21	10° Mp 47'23	0.54721 AO	morning rise	8525 Aug 18 16:15	20° Ω 36'49	0.55500 AC
direct	8524 Sep 11 19:08	10° mp 13'18		direct	8525 Aug 23 11:12	19° Ω 45'30	
morning max el	8524 Sep 24 22:08	16° Mp 31'19	22000116	morning max el	8525 Sep 06 10:29	26° Ω 44'47	24054142
morning max er	•	0∘ ⊽	23 09 10	morning max er	•	20 3 (44 4 7 0° m)	24 34 43
aga mada	8524 Oct 05 14:35			aca mada	8525 Sep 09 13:59		
asc. node	8524 Oct 09 23:02	7° £ 22'01		asc. node	8525 Sep 26 20:00	26° m 33'41	
morning set	8524 Oct 18 00:14	23° £ 19′26		. ,	8525 Sep 28 13:51	0° ™	
	8524 Oct 21 03:01	0° M ₊		morning set	8525 Oct 02 11:57	8° ≏ 07'48	
superior conj	8524 Oct 24 23:40	8° M 20'04	1°41'06	superior conj	8525 Oct 09 08:47	23° ≏ 06'34	1°36'47
minimum elong max. Earth dist.	8524 Oct 24 23:25	8°M18'42 14°M32'18	1°41'13 1.33547 AU	minimum elong max. Earth dist.	8525 Oct 09 07:29 8525 Oct 11 00:30	22° £ 59'28 26° £ 43'27	1°36'46 1.32443 AU
	8524 Oct 27 21:44	24°M23'57	1.33347 AU	max. Earui üist.		26° 32 43°27 0° M	1.32443 AU
evening rise	8524 Nov 01 17:35			ovonina ria-	8525 Oct 12 12:50		
daga == -1	8524 Nov 04 14:49	0° ⊼ 1 15°. 7 52140		evening rise	8525 Oct 16 14:04	8°M31'17	
desc. node	8524 Nov 13 13:20	15° ₹ 52'40		daga	8525 Oct 28 00:40	0° 🗷 5°.₹26!16	
arramir 1	8524 Nov 22 18:53	0°る	27017144	desc. node	8525 Oct 31 10:25	5° × ⁷ 36'16	27020110
evening max el	8524 Dec 06 03:08	15°₹59'36	2/-1/44	evening max el	8525 Nov 18 13:55	29° ⋌ '03'33	27-29.10
retrograde	8524 Dec 19 14:54	23° る 20'17			8525 Nov 19 14:24	0°る	
evening set	8524 Dec 26 11:37	20° ප් 44'35	0.64712 ***	retrograde	8525 Dec 02 08:12	6° る 21'18	
min. Earth dist.	8524 Dec 30 08:07	1/~010'18	0.64713 AU	evening set	8525 Dec 09 10:04	3°₹53′08	

min. Earth dist.	8525 Dec 13 02:52	0° る 48'35	0.62923 AU		8526 Oct 04 04:06	0° M	
	8525 Dec 13 23:11	30°R. ✓		desc. node	8526 Oct 18 07:30	24°M45'02	
inferior conj	8525 Dec 15 21:46	28° ₹ 05'56	-2°34'53		8526 Oct 21 23:30	0° ∡ ¹	
minimum elong	8525 Dec 16 02:42	27° ₹ 53'55	2°32'47	evening max el	8526 Oct 31 20:16	11° ∡ ¹28'37	27°07'58
morning rise	8525 Dec 22 21:25	22° ∡ 54'35		retrograde	8526 Nov 14 17:39	18° ∡ ³39'45	
asc. node	8525 Dec 23 19:29	22° ∡ ³38'42		evening set	8526 Nov 21 17:38	16° ∡ ¹29'39	
direct	8525 Dec 25 05:07	22° ҂ 29′26		min. Earth dist.	8526 Nov 25 11:00	13° ∡ ¹46'48	0.60909 AU
morning max el	8525 Dec 31 21:02	25° ₹ '54'45	17°47'44	inferior conj	8526 Nov 28 13:44	11° ∡ ¹06'42	-3°45'04
	8526 Jan 04 08:19	0°రె		minimum elong	8526 Nov 28 20:39	10° ∡ '51'51	3°42'41
morning set	8526 Jan 16 23:24	20°る42'34		morning rise	8526 Dec 06 02:01	6° ҂ 14'53	
C	8526 Jan 22 07:20	0° ≈		direct	8526 Dec 08 06:53	5° ₹ 55'18	
desc. node	8526 Jan 27 09:40	8° ≈ 40'45		asc. node	8526 Dec 10 16:31	6° ≯ 19'33	
				morning max el	8526 Dec 15 11:52	9° ∡ ³32'00	17°58'01
superior conj	8526 Jan 28 19:56	11° ≈ 03'58	-0°10'29		8526 Dec 28 20:45	0°ಕ	
minimum elong	8526 Jan 28 18:53	10°≈59'33	0°10'10	morning set	8526 Dec 31 03:29	4° ප 10'57	
behind sun begin	8526 Jan 28 11:40	10° ≈ 29'30					
behind sun end	8526 Jan 29 02:05	11° ≈ 29'33		superior conj	8527 Jan 10 08:46	22° る 39'52	0°28'50
max. Earth dist.	8526 Feb 04 09:00	21° ≈ 45'27	1.44069 AU	minimum elong	8527 Jan 10 11:05	22°る50'02	0°28'41
	8526 Feb 09 13:53	0° ℋ		desc. node	8527 Jan 14 06:37	29° පි 25'10	
evening rise	8526 Feb 12 21:58	5° ℋ 11'01			8527 Jan 14 14:49	0° ≈	
	8526 Mar 01 13:30	$0^{\circ}\mathbf{\Upsilon}$		max. Earth dist.	8527 Jan 17 22:10	5° ≈ 32'26	1.42418 AU
evening max el	8526 Mar 14 19:42	16° Ƴ 57'49	21°04'22	evening rise	8527 Jan 23 20:13	15° ≈ 07'39	
asc. node	8526 Mar 21 18:21	21° Y 46'52		_	8527 Feb 02 12:16	0° ∀	
retrograde	8526 Mar 23 09:10	22° Ƴ 00′11			8527 Feb 24 22:46	0 ° $\mathbf{\Upsilon}$	
evening set	8526 Mar 27 13:42	20° Ƴ 21′25		evening max el	8527 Feb 25 14:06	0° Ƴ 39'21	22°20'21
inferior conj	8526 Apr 01 20:58	14° Ƴ 08'45	2°57'19	retrograde	8527 Mar 07 06:04	6° Ƴ 22'57	
minimum elong	8526 Apr 01 19:03	14° Ƴ 15'21	2°56'55	asc. node	8527 Mar 08 15:28	6° Ƴ 13′10	
min. Earth dist.	8526 Apr 02 06:24	13° Y 36'03	0.68160 AU	evening set	8527 Mar 11 21:30	4° Υ 29'00	
morning rise	8526 Apr 07 00:11	7° Ƴ 54'10		_	8527 Mar 15 20:50	30° ₹ ₩	
direct	8526 Apr 12 07:18	5° Ƴ 33'58		inferior conj	8527 Mar 17 05:33	28° ₩ 07'17	2°29'12
morning max el	8526 Apr 22 21:23	11° Y 52'39	23°32'13	minimum elong	8527 Mar 17 03:19	28° ¥ 15′04	2°28'37
desc. node	8526 Apr 25 09:29	14° Ƴ 33'14		min. Earth dist.	8527 Mar 17 02:34	28°) 17'41	0.68448 AU
	8526 May 07 09:03	8° 0		morning rise	8527 Mar 22 08:58	21° ¥ 57'12	
	8526 May 26 19:27	$\Pi^{\circ}0$		direct	8527 Mar 27 02:10	19° ¥ 58′01	
morning set	8526 May 28 00:29	2° Ⅲ 02′08		morning max el	8527 Apr 05 09:09	25°) €24'26	22°03'44
max. Earth dist.	8526 May 31 23:26	8° Ⅲ 50'44	1.39019 AU		8527 Apr 09 12:40	0 ° Υ	
				desc. node	8527 Apr 12 06:25	3° Y 23′54	
superior conj	8526 Jun 08 12:23	22° Ⅱ 29'53	-1°21'43		8527 Apr 30 20:34	$_{0\circ}$ 8	
minimum elong	8526 Jun 08 17:26	22° I I53'30	1°21'11	morning set	8527 May 08 09:26	11° 8 51'22	
	8526 Jun 12 11:19	0 \circ \odot		max. Earth dist.	8527 May 13 22:05	20° 8 56'02	1.41245 AU
evening rise	8526 Jun 17 19:14	10° © 19'36			8527 May 19 05:35	$\Pi^{\circ}0$	
asc. node	8526 Jun 17 17:19	10° © 10'15					
	8526 Jun 28 18:45	$0^{\circ}\Omega$		superior conj	8527 May 21 16:11	4° Ⅱ 17'08	-1°49'20
evening max el	8526 Jul 04 00:13	6° Ω 33'54	18°44'32	minimum elong	8527 May 21 22:04	4° Ⅱ 43'11	1°48'55
retrograde	8526 Jul 12 05:11	10° Ω 38'10		evening rise	8527 Jun 01 04:51	23° Ⅲ 30′21	
evening set	8526 Jul 14 05:36	10° Ω 24'19		asc. node	8527 Jun 04 14:21	29° Ⅱ 46'56	
inferior conj	8526 Jul 22 05:41	6° Ω 02'30	0°02'20		8527 Jun 04 17:12	$0 \circ \mathfrak{S}$	
minimum elong	8526 Jul 22 05:46	6° Ω 02′20	0°02'09	evening max el	8527 Jun 17 07:58	19° © 12'30	18°15'03
transit middle	8526 Jul 22 05:46	6° Ω 02'20	0°02'09	retrograde	8527 Jun 24 11:05	22° 5 47'43	
transit begin	8526 Jul 22 02:08	6° Ω 09'03		evening set	8527 Jun 26 18:51	22°525'36	
transit end	8526 Jul 22 09:25	5° Ω 55'37		inferior conj	8527 Jul 03 23:28	17°543'01	1°30'03
desc. node	8526 Jul 22 08:47	5° Ω 56'47		minimum elong	8527 Jul 04 02:08	17° © 37'16	1°28'59
min. Earth dist.	8526 Jul 25 10:33	3° Ω 41'55	0.57092 AU	min. Earth dist.	8527 Jul 07 08:45	14° 5 49'13	0.59180 AU
morning rise	8526 Jul 30 02:29	0° Ω 56′08		desc. node	8527 Jul 09 05:49	13° © 22'32	
	8526 Aug 01 18:53	30° ₹		morning rise	8527 Jul 11 06:17	12° © 04'31	
direct	8526 Aug 04 17:41	29° © 38'27		direct	8527 Jul 17 13:36	10°915'50	
	8526 Aug 07 17:04	$0^{\circ}\Omega$		morning max el	8527 Jul 31 22:30	18°904'32	27°29'18
morning max el	8526 Aug 19 01:17	7° Ω 07'40	26°26'19		8527 Aug 10 21:48	$0^{\circ}\Omega$	
	8526 Sep 05 01:12	0° m			8527 Aug 28 15:42	0° m	
asc. node	8526 Sep 13 16:56	16° Mp 07′28		asc. node	8527 Aug 31 13:51	5° m ,57′08	
morning set	8526 Sep 16 22:26	22° m 50'02		morning set	8527 Sep 01 06:03	7° m 21'47	
	8526 Sep 20 05:54	0∘ ⊽					
				superior conj	8527 Sep 08 07:52	22° m 45'07	1°11'40
superior conj	8526 Sep 23 20:08	7° £ 56'47	1°26'49	minimum elong	8527 Sep 08 05:37	22° m/32'38	1°11'18
minimum elong	8526 Sep 23 18:08	7° £ 45'47	1°26'37	max. Earth dist.	8527 Sep 07 18:54	21°My33'13	1.31630 AU
max. Earth dist.	8526 Sep 24 08:39	9° ഫ 06'12	1.31806 AU		8527 Sep 11 14:22	0∘ ⊽	
evening rise	8526 Sep 30 17:39	22° ≏ 56'58		evening rise	8527 Sep 15 01:58	7° ≙ 34'16	

	9527 Can 26 15:50	0°M		avanina rias	9529 Aug 20 12:52	220 m 15145	
1 1	8527 Sep 26 15:59			evening rise	8528 Aug 29 12:53	22° m 15'45	
desc. node	8527 Oct 05 04:35	13°M05'26	0.0010150		8528 Sep 02 05:40	0∘ 亚	
evening max el	8527 Oct 13 19:31	23°M04'45	26°12'52		8528 Sep 20 19:33	0°M	
	8527 Oct 25 18:45	0° ∡ 7		desc. node	8528 Sep 21 01:41	0°M17′39	
retrograde	8527 Oct 27 17:34	0° ∡ °09′13		evening max el	8528 Sep 24 10:35	3°M50'21	24°49'27
	8527 Oct 29 16:06	30°RM		retrograde	8528 Oct 08 06:31	10°M48'10	
evening set	8527 Nov 03 05:44	28°M27'11		evening set	8528 Oct 13 17:57	9° M 40'51	
min. Earth dist.	8527 Nov 07 08:35	25°M52'40	0.58824 AU	min. Earth dist.	8528 Oct 18 21:49	6°M56'11	0.56888 AU
inferior conj	8527 Nov 10 12:38	23°M31'06	-4°47'53	inferior conj	8528 Oct 21 15:35	5° ™ 09'38	-5°29'25
minimum elong	8527 Nov 10 19:46	23°M17'47	4°46'11	minimum elong	8528 Oct 21 19:11	5° ™ 03'46	5°29'00
morning rise	8527 Nov 18 12:06	19°M01'39		morning rise	8528 Oct 29 22:40	1°M02'55	
direct	8527 Nov 20 18:16	18° M 44'24		direct	8528 Nov 01 11:08	0°M45'08	
asc. node	8527 Nov 27 13:30	21°M31'32		morning max el	8528 Nov 10 19:41	5°M11'36	19°20'22
morning max el	8527 Nov 28 20:37	22°M41'06	18°28'19	asc. node	8528 Nov 13 10:30	8°M01'00	
-	8527 Dec 04 15:26	0° ∡ ¹			8528 Nov 26 13:24	0° ∡ ¹	
morning set	8527 Dec 14 20:14	18° ∡ 14'06		morning set	8528 Nov 27 21:33	2° ₹ ³39'48	
· ·	8527 Dec 20 23:37	8°0		Č			
				superior conj	8528 Dec 05 23:49	18° ∡ ¹46'07	1°21'35
superior conj	8527 Dec 23 19:46	5° る 18'51	0°59'44	minimum elong	8528 Dec 06 02:45	19° ₹ 00'21	1°21'28
minimum elong	8527 Dec 23 23:09	5° る 34'28	0°59'28	minimum crong	8528 Dec 11 22:13	0°පි	1 21 20
max. Earth dist.	8527 Dec 23 25:07 8527 Dec 31 06:55	18°る40'21	1.40384 AU	max. Earth dist.	8528 Dec 11 22:13 8528 Dec 12 12:37		1.38205 AU
		20°る09'23	1.40364 AU			7° る 46'21	1.36203 AU
desc. node	8528 Jan 01 03:36			evening rise	8528 Dec 16 06:19		
evening rise	8528 Jan 04 14:21	25° ප් 58'16		desc. node	8528 Dec 18 00:37	10° ප් 49'31	
	8528 Jan 07 01:16	0° ≈			8528 Dec 29 22:46	0° ≈	24050110
	8528 Jan 27 05:32	0° ∀		evening max el	8529 Jan 20 18:10	28°≈10'27	24°58'19
evening max el	8528 Feb 08 04:59	14° ∺ 23'37	23°40'27		8529 Jan 22 16:53	0° ∀	
retrograde	8528 Feb 19 00:03	20°) 45′34		retrograde	8529 Feb 01 14:09	5° ∺ 03'09	
asc. node	8528 Feb 23 12:33	19° ∺ 06'47		evening set	8529 Feb 07 06:08	2°) (41'44	
evening set	8528 Feb 24 03:28	18° ¥ 37′01		asc. node	8529 Feb 09 09:38	0°) 33′28	
min. Earth dist.	8528 Feb 28 23:10	13°) €00'13	0.68316 AU		8529 Feb 09 21:13	30°R ≈	
inferior conj	8528 Feb 29 13:57	12°) €09'43	1°52'12	min. Earth dist.	8529 Feb 11 18:05	27° ≈ 39′26	0.67779 AU
minimum elong	8528 Feb 29 11:49	12° 升 16′58	1°51'33	inferior conj	8529 Feb 12 20:21	26° ≈ 13′06	1°06'48
morning rise	8528 Mar 05 20:10	6° ∺ 05'29		minimum elong	8529 Feb 12 18:51	26° ≈ 18′05	1°06'20
direct	8528 Mar 09 23:41	4°){ 28'49		morning rise	8529 Feb 18 07:49	20° ≈ 16′12	
morning max el	8528 Mar 18 03:06	9° ₩ 07'47	20°43'21	direct	8529 Feb 21 22:39	19° ≈ 01'01	
desc. node	8528 Mar 29 03:21	22° 升 51'36		morning max el	8529 Mar 01 05:00	23°≈03'34	19°35'59
	8528 Apr 03 02:49	0° Y		•	8529 Mar 07 01:53	0° ∀	
morning set	8528 Apr 16 17:01	20° Ƴ 32'51		greatest brilliancy	8529 Mar 13 22:21	9° ¥ 41'09	-0.7m
	8528 Apr 22 16:53	0°8		desc. node	8529 Mar 16 00:18	12°) 46'28	
max. Earth dist.	8528 Apr 25 03:52		1.43198 AU	morning set	8529 Mar 26 14:46	28°) 54'30	
max. Earth dist.	0320 1 pr 23 03.32	3 037 10	1.13170710	morning sec	8529 Mar 27 07:46	0°Υ	
superior conj	8528 May 01 21:19	15° 8 02'26	2007/51	max. Earth dist.	8529 Apr 07 16:21	17° Ƴ 43'47	1.44639 AU
		15° 8 18'20		max. Earm dist.	6329 Apr 07 10.21	1/ 1434/	1.44039 AU
minimum elong	8528 May 02 01:06		2 07 30		0520 A 12 01.40	2400044111	2011102
	8528 May 10 14:10	0°П		superior conj	8529 Apr 12 01:48	24° Υ 44'11 24° Υ 35'01	
evening rise	8528 May 13 23:05	5° I I56'46		minimum elong	8529 Apr 11 23:31		2°11'05
asc. node	8528 May 21 11:23	19° Ⅲ 03'52			8529 Apr 15 07:58	0° 8	
	8528 May 28 18:48	0°©		evening rise	8529 Apr 25 21:20	17° 8 29'37	
evening max el	8528 May 30 20:12	2° © 16'48	18°05'12		8529 May 03 08:27	0°II	
retrograde	8528 Jun 06 09:10	5° © 38'49		asc. node	8529 May 08 08:27	7° ∏ 54'44	
evening set	8528 Jun 09 00:25	5° © 05'40		evening max el	8529 May 14 09:36	15° Ⅱ 38'46	18°14'13
inferior conj	8528 Jun 15 12:40	0°503'05	2°29'57	retrograde	8529 May 20 18:48	19° Ⅱ 02'04	
minimum elong	8528 Jun 15 15:35	29° Ⅱ 55'48	2°29'02	evening set	8529 May 23 17:18	18° Ⅱ 16′02	
	8528 Jun 15 13:54	30°Ŗ Ⅱ		inferior conj	8529 May 29 17:14	12° Ⅱ 55'12	3°05'16
min. Earth dist.	8528 Jun 18 15:01	26° Ⅱ 59'26	0.61429 AU	minimum elong	8529 May 29 19:12	12° ∏ 49'41	3°04'48
morning rise	8528 Jun 22 04:32	24° ∏ 02′26		min. Earth dist.	8529 Jun 01 06:41	10° Ⅲ 04'01	0.63566 AU
desc. node	8528 Jun 25 02:53	22° Ⅱ 27'54		morning rise	8529 Jun 04 19:46	6° Ⅱ 42'23	
direct	8528 Jun 28 20:52	21° Ⅱ 44'54		direct	8529 Jun 11 13:40	4° Ⅱ 04'21	
morning max el	8528 Jul 13 02:27	29° Ⅱ 45′07	27°55'20	desc. node	8529 Jun 11 23:56	4° Ⅱ 04'57	
-	8528 Jul 13 08:24	0ಂತಾ		morning max el	8529 Jun 25 11:06	12° Ⅱ 06′53	27°43'25
	8528 Aug 03 22:15	$0^{\circ}\Omega$		-	8529 Jul 09 16:13	0° ©	
morning set	8528 Aug 15 08:52	21° Ω 36'32			8529 Jul 27 09:35	$0^{\circ}\Omega$	
asc. node	8528 Aug 17 10:47	25° Ω 56'33		morning set	8529 Jul 30 04:37	5° Ω 28'11	
	8528 Aug 19 08:29	0° m		max. Earth dist.	8529 Aug 04 05:38	15° Ω 50'15	1.32672 AU
max. Earth dist.	8528 Aug 21 03:14	3° m 51'39	1.31914 AU	asc. node	8529 Aug 04 07:46	16° Ω 01'28	
man. Durur dist.	5520 riug 21 05.14	לכני אווי כ	1.51717 /10	ase. Hode	5527 Tug 07 07.70	10 0 601 20	
superior conj	8528 Aug 22 18:10	7° m 25'00	0°51'43	superior conj	8529 Aug 07 01:13	21° Ω 51'10	0°27'21
minimum elong	8528 Aug 22 16:10 8528 Aug 22 16:09	7° my 13'50	0°51'15	minimum elong	8529 Aug 07 01:13 8529 Aug 06 23:57	21° Ω 44'19	0°26'57
mmmium ciong	5526 riug 22 10.09	י טכנואווי	0 01 10	minimum ciong	552) Hug 00 25.57	21 0677 17	0 2001

	8529 Aug 10 19:21	0° m)		superior conj	8530 Jul 22 02:50	5° Ω 57'24	-0°00'49
evening rise	8529 Aug 14 00:31	6° Mp 56'03		minimum elong	8530 Jul 22 02:53	5° Ω 57'24	
evening rise	8529 Aug 26 02:18	0° ⊽		behind sun begin	8530 Jul 21 21:13	5°Ω28'03	0 00 37
evening max el	8529 Sep 05 21:44	0 — 14° Ω 05'07	23°11'12	behind sun end	8530 Jul 22 08:32	6° Ω 27'19	
desc. node	8529 Sep 07 22:48	15° ≏ 56'01	23 11 12	asc. node	8530 Jul 22 04:46	6°Ω07'35	
retrograde	8529 Sep 19 07:28	20° Ω 47'07		evening rise	8530 Jul 29 10:58	21° Ω 29'16	
evening set	8529 Sep 23 07:18	20° £ 12'16		evening rise	8530 Aug 02 14:38	0° m)	
min. Earth dist.	8529 Sep 30 06:56	16° Ω 59'11	0.55413 AU	evening max el	8530 Aug 18 13:44	24° m) 24'18	21°34'52
inferior conj	8529 Oct 01 22:55	16° Ω 00'56		desc. node	8530 Aug 25 19:55	29° m) 29'21	
minimum elong	8529 Oct 01 19:13				8530 Aug 27 06:53	0∘ ⊽	
morning rise	8529 Oct 10 09:14	12° Ω 10'14		retrograde	8530 Aug 30 21:47	0° م 31'22	
direct	8529 Oct 13 08:46	11° ≏ 49'04		evening set	8530 Sep 02 12:43	0° ≏ 15'45	
morning max el	8529 Oct 24 06:18	16° ≏ 55'30	20°34'48	Ü	8530 Sep 03 15:41	30°R, M)	
asc. node	8529 Oct 31 07:29	25° ≏ 32'40		inferior conj	8530 Sep 11 17:15	26° m 17'36	-4°36'40
	8529 Nov 03 02:39	0° M		minimum elong	8530 Sep 11 07:59	26° m/30'35	4°34'30
morning set	8529 Nov 12 04:28	17° M 19'41		min. Earth dist.	8530 Sep 11 15:31	26° m/20'02	0.54705 AU
	8529 Nov 18 07:22	0°⊀		morning rise	8530 Sep 20 04:13	22° m 27'20	
				direct	8530 Sep 23 18:30	21° m 59'11	
superior conj	8529 Nov 19 16:16	2° ∡ ¹48'21	1°34'58	morning max el	8530 Oct 06 04:16	27° m 51'38	22°09'06
minimum elong	8529 Nov 19 18:03	2° ∡ ′57'23	1°35'01	-	8530 Oct 08 07:16	0∘ ⊽	
max. Earth dist.	8529 Nov 24 20:00	13° ∡ 03'13	1.36139 AU	asc. node	8530 Oct 18 04:29	13° ჲ 52'32	
evening rise	8529 Nov 28 17:49	20° ∡ °26′11			8530 Oct 26 14:19	0° M	
-	8529 Dec 04 02:38	ರ°0		morning set	8530 Oct 27 14:45	2°M07'44	
desc. node	8529 Dec 04 21:38	1° る 21'20					
	8529 Dec 23 22:28	0° ≈		superior conj	8530 Nov 03 17:26	17° M 14'58	1°40'48
evening max el	8530 Jan 03 07:15	11° ≈ 56'54	26°06'50	minimum elong	8530 Nov 03 17:54	17° M 17'23	1°40'56
retrograde	8530 Jan 15 23:24	19° ≈ 09'02		max. Earth dist.	8530 Nov 07 10:16	24°M56'57	1.34379 AU
evening set	8530 Jan 22 03:45	16° ≈ 38′00			8530 Nov 09 22:27	0° ∡ ¹	
min. Earth dist.	8530 Jan 26 09:05	12° ≈ 10′14	0.66865 AU	evening rise	8530 Nov 11 21:06	3° ∡ ¹48'25	
asc. node	8530 Jan 27 06:45	11° ≈ 03'19		desc. node	8530 Nov 21 18:41	21° ∡ ′40′06	
inferior conj	8530 Jan 27 22:50	10° ≈ 13′18	0°13'22		8530 Nov 26 22:35	8°0	
minimum elong	8530 Jan 27 22:29	10° ≈ 14′24	0°13'22	evening max el	8530 Dec 16 20:36	25° る 36'39	26°58'32
transit middle	8530 Jan 27 22:29	10° ≈ 14′24	0°13'22		8530 Dec 22 03:57	0°≈	
transit begin	8530 Jan 27 20:53	10° ≈ 19′20		retrograde	8530 Dec 30 02:56	2° ≈ 56'32	
transit end	8530 Jan 28 00:04	10° ≈ 09′28		evening set	8531 Jan 05 18:21	0° ≈ 20'54	
morning rise	8530 Feb 02 17:53	4° ≈ 25'33			8531 Jan 06 04:38	30°Ŗる	
direct	8530 Feb 05 21:29	3° ≈ 29′05		min. Earth dist.	8531 Jan 09 17:55	26° る 27'15	0.65595 AU
morning max el	8530 Feb 12 14:15	7° ≈ 07'31	18°44'00	inferior conj	8531 Jan 11 19:15	24° る 06'05	-0°47'28
	8530 Feb 28 23:00	0°) €		minimum elong	8531 Jan 11 20:37	24° る 02'09	0°46'42
desc. node	8530 Mar 02 21:13	3°) €00'34		asc. node	8531 Jan 14 03:50	21° る 30'39	
morning set	8530 Mar 06 02:47	8° ∺ 04'21		morning rise	8531 Jan 18 00:04	18° る 29'56	
	8530 Mar 20 02:57	0 ° Υ		direct	8531 Jan 20 18:16	17° る 48'32	
max. Earth dist.	8530 Mar 21 09:31	1° Y 59'40	1.45419 AU	morning max el	8531 Jan 27 04:51	21° る 14'04	18°08'33
					8531 Feb 03 01:30	0° ≈	
superior conj	8530 Mar 22 11:07	3° Y 40′01		morning set	8531 Feb 14 19:19	18° ≈ 41'11	
minimum elong	8530 Mar 22 02:31	3° Y ′06′20	1°53'43	desc. node	8531 Feb 17 18:10	23° ≈ 28'42	
evening rise	8530 Apr 06 20:08	28° Y ′03′00			8531 Feb 21 19:16	0° ∀	
	8530 Apr 08 01:16	0°8					
greatest brilliancy	8530 Apr 13 23:36	9° 8 31'19	-0.9m	superior conj	8531 Mar 01 17:13	12°) (34′24	
asc. node	8530 Apr 25 05:33	26° 8 10'25	10041100	minimum elong	8531 Mar 01 08:25	11°) 59'43	
evening max el	8530 Apr 27 21:21	29° 8 10'54	18°41'23	max. Earth dist.	8531 Mar 04 05:04	16°) €29'28	1.45466 AU
	8530 Apr 28 17:51	0°II			8531 Mar 12 20:55	0°Υ 7°Ω44104	
retrograde	8530 May 04 11:42	2° ∏ 48′23		evening rise	8531 Mar 17 20:57	7° Υ 46'04	^ 7
evening set	8530 May 07 17:40	1° ∏ 48'16		greatest brilliancy	8531 Mar 30 07:41	26° Y 55'14	-0.7m
	8530 May 09 23:56	30°₹ ႘	2020150		8531 Apr 01 09:19	0°8	10025121
inferior conj	8530 May 13 09:06	26° 8 10'48	3°20'59	evening max el	8531 Apr 11 05:14	12° 8 48'07	19°25'31
minimum elong	8530 May 13 09:45	26° 8 08'49	3°20'48	asc. node	8531 Apr 12 02:40	13° 8 40'08	
min. Earth dist.	8530 May 15 07:25	23° 8 49'03	0.65400 AU	retrograde	8531 Apr 18 08:42	16° 8 51'29	
morning rise	8530 May 19 01:07	19° 8 53'04 17° 8 06'31		evening set	8531 Apr 21 22:42	15° 8 36'28 9° 8 43'47	3°21'17
direct	8530 May 25 14:12			inferior conj	8531 Apr 27 08:54		
desc. node	8530 May 29 20:58	18° 8 06'23	26050127	minimum elong	8531 Apr 27 08:18	9° 8 45'42 8° 8 01'46	3°21'08
morning max el	8530 Jun 07 21:29 8530 Jun 12 10:51	24° 8 58'33 0° Ⅱ	20 3821	min. Earth dist. morning rise	8531 Apr 28 16:02 8531 May 02 17:34	3° 8 25'36	0.66826 AU
	8530 Jul 12 10:51 8530 Jul 03 03:29	0₀ © 0∘П		direct	8531 May 02 17:34 8531 May 08 21:04	0° 8 42'26	
morning set	8530 Jul 03 03:29 8530 Jul 13 14:22	18° © 48'10		desc. node	8531 May 16 17:58	4° 8 03'00	
max. Earth dist.	8530 Jul 17 22:31	27°\$21'04	1.33918 AU	morning max el	8531 May 21 07:27	8° 8 08'38	25°48'42
man. Darui dist.	8530 Jul 17 22:31 8530 Jul 19 05:49	27 3 21 04 0° Ω	1.55/10 AU	morning max ci	8531 May 21 07.27 8531 Jun 07 09:18	0°П	23 70 TZ
	5555 Jul 17 05.77	V 06			5551 Juli 07 07.10	V <u>н</u>	

	8531 Jun 25 15:23	0.00		morning set	8532 Jun 07 11:21	13° Ⅱ 09'04	1 2000 6 1 1 1
morning set	8531 Jun 26 10:14	1°526'01	1.25(20.17)	max. Earth dist.	8532 Jun 11 02:56	19° Ⅱ 37'38	1.37726 AU
max. Earth dist.	8531 Jun 30 04:36	8° 5 29'10	1.35639 AU		8532 Jun 16 17:06	0ංම	
superior conj	8531 Jul 05 20:22	19° © 36'29	0021145	superior conj	8532 Jun 18 02:35	2° © 40'17	1902147
minimum elong	8531 Jul 05 20:22 8531 Jul 05 22:15	19° 5 30'29		minimum elong	8532 Jun 18 06:33	2°959'25	
asc. node	8531 Jul 09 01:45	26°\$10'46	0 31 33	asc. node	8532 Jun 24 22:46	16° © 07'26	1 03 19
asc. node	8531 Jul 10 22:15	0°Ω		evening rise	8532 Jun 26 19:30	19°9549'50	
evening rise	8531 Jul 13 18:07	5° Ω 49'26		evening rise	8532 Jul 02 01:29	0°Ω	
evening rise	8531 Jul 27 06:21	0° m)		evening max el	8532 Jul 13 10:19	16° Ω 54'24	19°10'40
evening max el	8531 Jul 31 17:28	5° Mp 16'52	20°12'47	retrograde	8532 Jul 22 11:16	21°Ω22'48	17 10 40
retrograde	8531 Aug 11 10:34	10° mp 34'28	20 12 17	evening set	8532 Jul 24 08:38	21°Ω11'53	
desc. node	8531 Aug 12 17:02	10° mp 30'18		desc. node	8532 Jul 29 14:07	19° Ω 04'37	
evening set	8531 Aug 13 09:10	10° mg 24'48		inferior conj	8532 Aug 01 19:57	17° Ω 00'24	-0°59'41
inferior conj	8531 Aug 22 11:37	6° m) 26'36	-2°56'04	minimum elong	8532 Aug 01 17:20	17° Ω 04'49	0°58'48
minimum elong	8531 Aug 22 03:43	6° mp 38'16		min. Earth dist.	8532 Aug 04 14:58	15° Ω 08'03	0.56097 AU
min. Earth dist.	8531 Aug 24 01:34	5° m 30'37		morning rise	8532 Aug 09 23:05	12° Ω 15'37	
morning rise	8531 Aug 30 21:11	2° m) 16'43		direct	8532 Aug 15 02:43	11° Ω 14'22	
direct	8531 Sep 04 05:06	1° m/36'12		morning max el	8532 Aug 29 06:39	18° Ω 26'54	25°36'21
morning max el	8531 Sep 17 17:53	8° mp 12'30	23°54'40		8532 Sep 07 22:25	0° m)	
5 5	8531 Oct 03 12:43	0∘ <u>v</u>		asc. node	8532 Sep 20 22:24	22° m/ 10'23	
asc. node	8531 Oct 05 01:27	2° £ 48'08			8532 Sep 24 18:12	0∘ <u>⊽</u>	
morning set	8531 Oct 12 02:26	16° ♀ 57'28		morning set	8532 Sep 25 13:51	1° £ 44'13	
5 - 5	8531 Oct 18 02:56	0° M ₊		. 8			
				superior conj	8532 Oct 02 10:38	16° ≏ 45'02	1°33'12
superior conj	8531 Oct 19 00:19	1°M.56'10	1°39'59	minimum elong	8532 Oct 02 09:00	16° ≏ 36'02	1°33'08
minimum elong	8531 Oct 18 23:35	1°M52'12	1°40'03	max. Earth dist.	8532 Oct 03 14:39	19° ≏ 19'21	1.32123 AU
max. Earth dist.	8531 Oct 21 08:59	7° ጤ 01'19	1.33027 AU		8532 Oct 08 13:31	0° M	
evening rise	8531 Oct 26 12:14	17° M 41'49		evening rise	8532 Oct 09 12:05	1° M 57'54	
•	8531 Nov 01 21:57	0° ∡ °		•	8532 Oct 24 19:12	0° ∡ ¹	
desc. node	8531 Nov 08 15:43	11° ∡ ³38'46		desc. node	8532 Oct 25 12:47	1° ∡ ¹08'59	
	8531 Nov 21 07:50	0°ප		evening max el	8532 Nov 10 18:12	21° х 45'59	27°24'09
evening max el	8531 Nov 29 09:01	8° る 57'29	27°26'21	retrograde	8532 Nov 24 13:41	29° ∡ ¹00'31	
retrograde	8531 Dec 12 23:53	16° ප 16'39		evening set	8532 Dec 01 16:00	26° ∡ ³38'32	
evening set	8531 Dec 19 23:28	13° る 43'19		min. Earth dist.	8532 Dec 05 08:18	23° ∡ ¹44'46	0.62097 AU
min. Earth dist.	8531 Dec 23 18:14	10° る 22'11	0.63989 AU	inferior conj	8532 Dec 08 07:09	21° ₹ 101′28	-3°04'55
inferior conj	8531 Dec 26 07:01	7° る 44'37	-1°54'28	minimum elong	8532 Dec 08 13:02	20° ∡ ¹47'53	3°02'37
minimum elong	8531 Dec 26 10:35	7° る 35'20	1°52'49	morning rise	8532 Dec 15 12:15	15° ∡ ¹58'10	
asc. node	8532 Jan 01 00:54	2° る 49'54		direct	8532 Dec 17 18:26	15° ∡ ³35'42	
morning rise	8532 Jan 01 23:25	2° る 23'10		asc. node	8532 Dec 17 21:57	15° ∡ 35'48	
direct	8532 Jan 04 10:22	1° る 53'03		morning max el	8532 Dec 24 14:44	19° х 04′23	17°49'47
morning max el	8532 Jan 10 22:03	5° る 15'34	17°50'14		8533 Jan 01 14:16	0°ರ	
	8532 Jan 27 06:29	0° ≈		morning set	8533 Jan 09 10:11	13° る 40'43	
morning set	8532 Jan 27 15:50	0° ≈ 39'52			8533 Jan 18 16:17	0° ≈	
desc. node	8532 Feb 04 15:05	14° ≈ 05'56					
				superior conj	8533 Jan 20 12:51	3° ≈ 10′37	0°07'08
superior conj	8532 Feb 09 14:34	22° ≈ 16′12	-0°35'43	minimum elong	8533 Jan 20 13:32	3° ≈ 13'30	0°07'13
minimum elong	8532 Feb 09 10:35	22° ≈ 00'01	0°35'01	behind sun begin	8533 Jan 20 05:40	2° ≈ 40′04	
	8532 Feb 14 10:07	0° ℋ		behind sun end	8533 Jan 20 21:23	3° ≈ 46'52	
max. Earth dist.	8532 Feb 15 00:18	0° ¥ 56′21	1.44774 AU	desc. node	8533 Jan 21 11:59	4° ≈ 48'39	
evening rise	8532 Feb 25 09:03	17°) €05'27		max. Earth dist.	8533 Jan 27 16:17	15° ≈ 02'22	1.43426 AU
	8532 Mar 04 21:12	0° Υ		evening rise	8533 Feb 03 23:26	26° ≈ 38'15	
evening max el	8532 Mar 24 07:50	26° Y 27'06	20°24'44		8533 Feb 06 03:33	0° ∀	
asc. node	8532 Mar 28 23:45	0° 8 10'33			8533 Feb 26 18:42	0° Υ	
	8532 Mar 28 16:08	0°8		evening max el	8533 Mar 07 04:49	10° Y 06′32	21°35'51
retrograde	8532 Apr 01 07:13	1° 8 05'57		asc. node	8533 Mar 15 20:52	15° Y 26′05	
	8532 Apr 04 16:30	30° ŖƳ		retrograde	8533 Mar 16 05:16	15° Y 26'42	
evening set	8532 Apr 05 06:12	29° Ƴ 35'41		evening set	8533 Mar 20 14:20	13° Y 41′13	
inferior conj	8532 Apr 10 13:51	23° Y 29'35	3°09'10	inferior conj	8533 Mar 25 21:41	7° Y 24'05	2°46'33
minimum elong	8532 Apr 10 12:20	23° Y '34'48	3°08'53	minimum elong	8533 Mar 25 19:35	7° Y 31′23	2°46'03
min. Earth dist.	8532 Apr 11 06:48	22° Y 31'38	0.67799 AU	min. Earth dist.	8533 Mar 26 01:38	7° Y 10′20	0.68328 AU
morning rise	8532 Apr 15 18:14	17° Y 13'21		morning rise	8533 Mar 31 00:40	1° Υ '11'22	
direct	8532 Apr 21 09:11	14° Y 43'06			8533 Apr 01 15:16	30° ₹	
morning max el	8532 May 02 16:39	21° Y ′29'14	24°23'59	direct	8533 Apr 05 01:46	29°) €00'02	
desc. node	8532 May 02 14:56	21° Y 24'54			8533 Apr 08 19:37	0° Υ	
	8532 May 10 01:38	0° 8		morning max el	8533 Apr 15 02:40	4° Y 56'41	22°54'08
	8532 May 30 15:25	Π °0		desc. node	8533 Apr 19 11:51	9° Ƴ 48'05	

	052234 04 00 22				0524 4 06 00 46	2001/20104	
	8533 May 04 08:23	0°8		desc. node	8534 Apr 06 08:46	28°) 56'04	
morning set	8533 May 19 12:07	23° 8 42'19			8534 Apr 07 03:49	0° Υ	
	8533 May 23 06:01	0°II		_	8534 Apr 27 11:45	0°8	
max. Earth dist.	8533 May 23 23:26	1° Ⅱ 14'33	1.39975 AU	morning set	8534 Apr 29 09:24	2° 8 59'50	
				max. Earth dist.	8534 May 06 00:16	13° 8 41'15	1.42119 AU
superior conj	8533 May 31 17:16	14° Ⅱ 57'44					
minimum elong	8533 May 31 22:54	15° Ⅱ 23'31	1°33'39	superior conj	8534 May 13 11:52	26° 8 19'10	-1°58'39
	8533 Jun 08 17:46	0ಂ ತಾ		minimum elong	8534 May 13 17:20	26° 8 42'49	1°58'25
evening rise	8533 Jun 10 11:56	3° 5 21'06			8534 May 15 14:35	Π $^{\circ}0$	
asc. node	8533 Jun 11 19:46	5° © 52'33		evening rise	8534 May 24 15:33	16° Ⅱ 13'55	
evening max el	8533 Jun 26 13:41	29°512'44	18°29'32	asc. node	8534 May 29 16:48	25° Ⅲ 21′26	
•	8533 Jun 27 09:55	$0^{\circ}\Omega$			8534 Jun 01 08:59	0°ಅ	
retrograde	8533 Jul 04 06:28	3°Ω03'09		evening max el	8534 Jun 09 23:47	12° © 03'13	18°08'35
evening set	8533 Jul 06 09:42	2° Ω 46'19		retrograde	8534 Jun 16 19:38	15° © 30'57	
e renning see	8533 Jul 11 18:25	30°Rூ		evening set	8534 Jun 19 06:32	15°504'32	
inferior conj	8533 Jul 14 01:17	28°515'39	0°42'54	inferior conj	8534 Jun 26 03:46	10°513'36	1°58'43
minimum elong	8533 Jul 14 01:17	28° © 12'40	0°42'10	minimum elong	8534 Jun 26 06:45	10° © 06'43	1°57'38
•			0 42 10	_			
desc. node	8533 Jul 16 11:13	26°521'07	0.57024.411	min. Earth dist.	8534 Jun 29 11:18	7°©12'19	0.60133 AU
min. Earth dist.	8533 Jul 17 09:38	25°938'15	0.57934 AU	morning rise	8534 Jul 03 04:08	4° © 24'13	
morning rise	8533 Jul 21 16:25	22° © 54'11		desc. node	8534 Jul 03 08:17	4° © 17'52	
direct	8533 Jul 27 14:56	21° © 23'41		direct	8534 Jul 09 16:18	2° © 22'11	
morning max el	8533 Aug 11 00:12	29° © 02'48	26°57'16	morning max el	8534 Jul 24 00:23	10°©17'37	27°45'00
	8533 Aug 11 23:10	$0 {\circ} \Omega$			8534 Aug 08 07:09	$0 {\circ} \Omega$	
	8533 Sep 01 17:10	0° m p			8534 Aug 24 19:58	0° m)	
asc. node	8533 Sep 07 19:20	11° m 51'31		morning set	8534 Aug 25 05:11	0° ™ 47'53	
morning set	8533 Sep 09 23:21	16° Mp 22′43		asc. node	8534 Aug 25 16:16	1° m 45'48	
	8533 Sep 16 05:14	0∘ ত		max. Earth dist.	8534 Aug 31 09:50	14° Mp 08'30	1.31690 AU
	•				•	-	
superior conj	8533 Sep 16 22:22	1° £ 35'06	1°21'00	superior conj	8534 Sep 01 09:45	16° Mp 20'40	1°03'47
minimum elong	8533 Sep 16 20:13	1° £ 23′09	1°20'44	minimum elong	8534 Sep 01 07:32	16° Mp 08'24	1°03'21
max. Earth dist.	8533 Sep 17 00:07	1° ⊆ 44'46	1.31675 AU	minimum ciong	8534 Sep 07 14:49	0° ⊡	1 03 21
evening rise	8533 Sep 17 00:07 8533 Sep 23 17:57	16° £ 28'59	1.510/5 AC	evening rise	8534 Sep 08 03:36	0 — 1° ⊆ 08'40	
evening rise	•	0°M		evening rise	*	0°M	
	8533 Sep 30 11:03				8534 Sep 23 16:14		
desc. node	8533 Oct 12 09:54	19°M59'18		desc. node	8534 Sep 29 07:01	7°M53'38	25040115
	8533 Oct 20 04:33	0° ∡ 7		evening max el	8534 Oct 05 17:14		25°40'15
evening max el	8533 Oct 23 21:33	3° ₹ 50'14	26°48'23	retrograde	8534 Oct 19 15:27	22°M06'43	
retrograde	8533 Nov 06 19:30	10° ₹ 59'13		evening set	8534 Oct 25 18:24	20°M39'14	
evening set	8533 Nov 13 15:58	8° ≯ 759'32		min. Earth dist.	8534 Oct 30 05:40	18° ™ 02'28	0.57959 AU
min. Earth dist.	8533 Nov 17 11:43	6° ₹ 22'25	0.60019 AU	inferior conj	8534 Nov 02 06:57	15° ™ 53'50	-5°09'15
inferior conj	8533 Nov 20 16:16	3° ∡ ¹47'49	-4°13'18	minimum elong	8534 Nov 02 13:08	15° M 42'55	5°08'05
minimum elong	8533 Nov 20 23:36	3° ∡ ³32'57	4°11'05	morning rise	8534 Nov 10 10:12	11°M34'12	
	8533 Nov 26 02:39	30°RM₊		direct	8534 Nov 12 18:12	11° M 17'12	
morning rise	8533 Nov 28 09:41	29°M05'40		morning max el	8534 Nov 21 08:40	15°M25'51	18°47'42
direct	8533 Nov 30 14:27	28°M47'33		asc. node	8534 Nov 21 15:57	15°M43'40	
asc. node	8533 Dec 04 18:57	29°M56'47			8534 Dec 01 13:26	0° ∡ ¹	
	8533 Dec 04 21:16	0° √		morning set	8534 Dec 07 17:07	11° ∡ ³39'43	
morning max el	8533 Dec 08 03:32	2° ∡ ³31'29	18°08'24	morning see	0001.200 07 17.07	11 7 07 15	
morning set	8533 Dec 23 20:16	27° × ⁷ 25'39	10 0021	superior conj	8534 Dec 16 06:42	28° ҂ 17'05	1°10'04
morning set	8533 Dec 25 25:10	0°る		minimum elong	8534 Dec 16 10:01	28° × 32'46	1°09'51
	6333 Dec 23 03.07	0 0		minimum ciong	8534 Dec 17 04:32	20 × 32 40	1 07 31
	0524 I 02 11.40	150715144	0942102	Danth diet			1 20450 ATT
superior conj	8534 Jan 02 11:48	15° る 15'44		max. Earth dist.	8534 Dec 23 09:52		1.39458 AU
minimum elong	8534 Jan 02 14:48	15° ⋜ 29'13	0°42'48	desc. node	8534 Dec 26 05:57	16°る16'44	
desc. node	8534 Jan 08 08:57	25° る 33'39		evening rise	8534 Dec 27 09:06	18° る 12'32	
max. Earth dist.	8534 Jan 10 03:10	28° る 32'33	1.41580 AU		8535 Jan 03 13:59	0° ≈	
	8534 Jan 11 00:02	0°≈			8535 Jan 24 17:10	0° ∀	
evening rise	8534 Jan 15 05:30	6°≈56'32		evening max el	8535 Jan 31 11:22	7°) ₹34'39	24°14'18
	8534 Jan 30 07:41	0° ∀		retrograde	8535 Feb 11 17:42	14°) (11′01	
evening max el	8534 Feb 17 21:21	23°) 48′44	22°54'17	evening set	8535 Feb 17 02:18	11° ¥ 57′00	
retrograde	8534 Feb 28 01:13	29°) 50′06		asc. node	8535 Feb 17 15:03	11°) €28'34	
asc. node	8534 Mar 02 17:57	29°) (13′49		min. Earth dist.	8535 Feb 21 18:38	6°) (34′36	0.68135 AU
evening set	8534 Mar 04 21:33	27°) (49'50		inferior conj	8535 Feb 22 14:14	5° ¥ 28'32	1°33'57
inferior conj	8534 Mar 10 06:26	21°) 25'00	2°14'35	minimum elong	8535 Feb 22 12:18	5°) €35'02	
minimum elong	8534 Mar 10 04:11	21°) (32'48	2°13'56		8535 Feb 27 06:01	30°R≈	
min. Earth dist.	8534 Mar 09 22:21	21° X 52'59	0.68435 AU	morning rise	8535 Feb 27 22:21	29°≈26'56	
morning rise	8534 Mar 15 10:42	15° H 17'03	5.00 133 AU	direct	8535 Net 27 22:21 8535 Mar 03 20:21	29 ≈20 30 27°≈59'29	
direct		13° ★ 27'33		uncot		27 ≈ 3929	
uncci	8534 Mar 19 21:54	13 1/2/33			8535 Mar 08 20:59	$^{\circ}$ $^{\wedge}$	
morning max el	8534 Mar 28 16:45	18°) 33′21	21020111	morning max el	8535 Mar 11 13:53	2°) 21'39	20012140

desc. node	8535 Mar 24 05:42	18° ¥ 36'19		greatest brilliancy	8536 Mar 07 00:56	4°) €00'47	-0.7m
	8535 Mar 31 22:37	0° Υ		desc. node	8536 Mar 10 02:38	8° ¥ 40′05	
morning set	8535 Apr 08 09:54	11° Υ 23'51 27° Υ 01'49	1 42007 ATT	morning set	8536 Mar 17 10:58	19° ¥ 58′20 0° ⋎	
max. Earth dist.	8535 Apr 18 08:41		1.43887 AU	Danila diat	8536 Mar 23 22:03 8536 Mar 30 23:55	11° Υ 04'34	1.45066 AU
	8535 Apr 20 05:01	0° 8		max. Earth dist.	8330 IVIAI 30 23.33	11 1 04 34	1.43000 AU
superior conj	8535 Apr 24 06:28	6° 8 36'53	-2°11'26	superior conj	8536 Apr 03 01:27	15° Ƴ 55'01	-2°06'29
minimum elong	8535 Apr 24 08:06	6° 8 43'35	2°11'32	minimum elong	8536 Apr 02 20:05	15° Ƴ 33'43	2°06'17
evening rise	8535 May 07 01:46	28° 8 17'55		C	8536 Apr 11 20:06	0°8	
-	8535 May 08 01:20	$\Pi^{\circ}0$		evening rise	8536 Apr 17 14:13	9° 8 25'15	
asc. node	8535 May 16 13:52	14° Ⅲ 28′05			8536 Apr 30 07:55	$\Pi^{\circ}0$	
evening max el	8535 May 24 12:57	25° Ⅱ 16'11	18°06'52	asc. node	8536 May 02 10:58	3° Ⅱ 04'59	
retrograde	8535 May 30 23:00	28° Ⅲ 36'42		evening max el	8536 May 07 01:58	8° Ⅱ 43'07	18°23'38
evening set	8535 Jun 02 17:26	27° Ⅲ 58′10		retrograde	8536 May 13 12:09	12° Ⅱ 10'42	
inferior conj	8535 Jun 08 23:57	22° Ⅱ 47'48	2°47'36	evening set	8536 May 16 13:54	11° Ⅱ 18'36	
minimum elong	8535 Jun 09 02:34	22° Ⅱ 40'57	2°46'53	inferior conj	8536 May 22 09:44	5° Ⅱ 50′20	
min. Earth dist.	8535 Jun 11 21:23	19° Ⅱ 46'58	0.62367 AU	minimum elong	8536 May 22 11:09	5° Ⅱ 46'11	3°13'44
morning rise	8535 Jun 15 09:53	16° Ⅱ 41'13		min. Earth dist.	8536 May 24 16:46	3° Ⅱ 10′19	0.64392 AU
desc. node	8535 Jun 20 05:20	14° Ⅱ 25'22			8536 May 27 19:35	30° ₹ 8	
direct	8535 Jun 22 03:59	14° Ⅱ 13'28		morning rise	8536 May 28 07:26	29° 8 34'56	
morning max el	8535 Jul 06 06:23	22° Ⅱ 15'38	27°54'43	direct	8536 Jun 03 23:59	26° 8 52'04	
	8535 Jul 13 01:30	0°©		desc. node	8536 Jun 06 02:22	27° 8 06'24	
	8535 Aug 01 11:30	0°N			8536 Jun 12 02:01	0°II	25220101
morning set	8535 Aug 09 05:20	14° £ 53′52		morning max el	8536 Jun 17 16:00	4° Ⅱ 50'59	27°28'01
asc. node	8535 Aug 12 13:14	21° Ω 48′21	1 22174 ATT	. ,	8536 Jul 06 16:56	0°©	
max. Earth dist.	8535 Aug 14 16:03	26° Ω 19'42	1.32174 AU	morning set	8536 Jul 22 21:10	28° © 32'40 0° Ω	
	8535 Aug 16 08:41	0° т р		max. Earth dist.	8536 Jul 23 14:52 8536 Jul 27 14:54	8° Ω 07'28	1.33142 AU
superior conj	8535 Aug 16 18:57	0° m 56'01	0°41'55	asc. node	8536 Jul 29 10:12	11° Ω 54'04	1.33142 AU
minimum elong	8535 Aug 16 17:11	0°Mp46'19	0°41'27	asc. node	8330 Jul 29 10.12	11 063404	
evening rise	8535 Aug 10 17:11 8535 Aug 23 15:05	15° m 50'58	0 41 27	superior conj	8536 Jul 30 23:56	15° Ω 14'11	0°15'51
evening rise	8535 Aug 30 14:17	0ಂ ರ		minimum elong	8536 Jul 30 23:09	15° Ω 10'02	0°15'31
desc. node	8535 Sep 16 04:09	ა — 24° Ω 30'18		behind sun begin	8536 Jul 30 21:48	15° Ω 02'51	0 13 31
evening max el	8535 Sep 17 06:08	25° £ 34'58	24°08'39	behind sun end	8536 Jul 31 00:30	15° Ω 17'13	
**************************************	8535 Sep 22 21:24	0°M			8536 Aug 06 20:59	0° m)	
retrograde	8535 Sep 30 23:08	2°M27'03		evening rise	8536 Aug 07 02:26	0° m) 28'58	
evening set	8535 Oct 05 20:11	1°M34'46		Č	8536 Aug 23 17:15	0∘ ⊽	
	8535 Oct 09 08:57	30° ₹ Ω		evening max el	8536 Aug 28 18:08	5° ≏ 46'36	22°29'08
min. Earth dist.	8535 Oct 11 16:51	28° ≏ 40'02	0.56188 AU	desc. node	8536 Sep 02 01:17	9° ≙ 19'34	
inferior conj	8535 Oct 14 01:23	27° ₽ 13'03	-5°35'58	retrograde	8536 Sep 10 18:32	12° ≏ 16′03	
minimum elong	8535 Oct 14 02:10	27° £ 11'51	5°35'52	evening set	8536 Sep 14 03:25	11° ≏ 51′03	
morning rise	8535 Oct 22 10:15	23° ≙ 14'02		min. Earth dist.	8536 Sep 22 00:58	8° ≏ 21'51	0.55007 AU
direct	8535 Oct 25 03:01	22° ჲ 55'03		inferior conj	8536 Sep 23 01:53	7° ≏ 46'38	
morning max el	8535 Nov 04 02:39	27° ≏ 37'38	19°49'12	minimum elong	8536 Sep 22 19:08	7° £ 56'10	5°13'31
	8535 Nov 06 08:57	0° M		morning rise	8536 Oct 01 12:42	3° ≏ 58'51	
asc. node	8535 Nov 08 12:57	2°M41'52		direct	8536 Oct 04 18:22	3° £ 35'09	
morning set	8535 Nov 21 21:12	26°M13'03		morning max el	8536 Oct 16 07:33	9° £ 00'07	21°12'49
	8535 Nov 23 17:52	0° ⊀ ¹		asc. node	8536 Oct 25 09:57	20° £ 35'26	
	9525 N 20 16-24	120.700/57	1020114		8536 Oct 30 18:32	0°M	
superior conj	8535 Nov 29 16:34	12° 尽 00'57 12° 尽 13'18	1°28'14 1°28'11	morning set	8536 Nov 05 05:49	10°M57'25	
minimum elong max. Earth dist.	8535 Nov 29 19:03 8535 Dec 05 15:59	12° × ′13′18 23° × ′33′10	1.37310 AU	superior conj	8536 Nov 12 13:07	26° M .14'48	1°38'18
evening rise	8535 Dec 05 15:59 8535 Dec 09 09:54	0°る24'24	1.57510 AO	minimum elong	8536 Nov 12 13:07 8536 Nov 12 14:20	26°M21'06	1°38'24
evening rise	8535 Dec 09 04:27	0°32+2+		minimum clong	8536 Nov 14 08:57	0° ₹	1 30 24
desc. node	8535 Dec 05 04:27 8535 Dec 13 02:59	6° ਰ 54'11		max. Earth dist.	8536 Nov 17 02:10	5° ⋌ ¹27'47	1.35350 AU
acce. noue	8535 Dec 13 02:39 8535 Dec 27 19:40	0°≈		evening rise	8536 Nov 21 04:34	13° × ² 23'16	1.55550 110
evening max el	8536 Jan 14 00:37	21° ≈ 22'45	25°29'00	desc. node	8536 Nov 29 00:02	27° × ² 21'18	
retrograde	8536 Jan 26 05:40	28°≈24'16			8536 Nov 30 13:53	0°පි	
evening set	8536 Feb 01 03:01	25°≈58'30			8536 Dec 21 17:57	0° ≈	
asc. node	8536 Feb 04 12:10	22° ≈ 25'42		evening max el	8536 Dec 26 13:52	5° ≈ 07'33	26°31'11
min. Earth dist.	8536 Feb 05 12:10	21°≈10'51	0.67445 AU	retrograde	8537 Jan 08 12:26	12° ≈ 23'43	
inferior conj	8536 Feb 06 19:13	19° ≈ 31'07	0°45'05	evening set	8537 Jan 14 21:55	9° ≈ 49'49	
minimum elong	8536 Feb 06 18:08	19° ≈ 34'38	0°44'47	min. Earth dist.	8537 Jan 19 00:40	5° ≈ 36'57	0.66375 AU
morning rise	8536 Feb 12 09:37	13° ≈ 37'45		inferior conj	8537 Jan 20 19:24	3° ≈ 28'49	-0°11'35
direct	8536 Feb 15 19:35	12° ≈ 30'44		minimum elong	8537 Jan 20 19:42	3° ≈ 27'53	0°11'17
morning max el	8536 Feb 22 19:01	16° ≈ 21′09	19°11'48	transit middle	8537 Jan 20 19:42	3° ≈ 27'53	0°11'17
	8536 Mar 04 08:11	0° ∀		transit begin	8537 Jan 20 17:38	3° ≈ 34'06	

transit end	8537 Jan 20 21:46	3°≈21'40		min. Earth dist.	8538 Jan 02 06:02	100₹/15'55	0.64950 AU
asc. node	8537 Jan 20 21:40 8537 Jan 21 09:15	2°≈47'22		inferior conj	8538 Jan 02 00:02 8538 Jan 04 12:26	19 3 4333	
asc. node	8537 Jan 23 21:53	2 ~ 17 22 30°Rる		minimum elong	8538 Jan 04 14:42	17°る10'10	
morning rise	8537 Jan 26 18:22	27° පි 45'54		asc. node	8538 Jan 08 06:20	17 3 10 04	1 1407
direct	8537 Jan 29 17:48	26° ප 56'16		morning rise	8538 Jan 10 22:02	11° る 46'19	
	8537 Feb 04 19:27	0°≈		direct	8538 Jan 13 12:48	11°る10'20	
morning max el	8537 Feb 05 06:55	0° ≈ 27'31	18°26'52	morning max el	8538 Jan 19 23:03	14° る 33'27	17°58'38
desc. node	8537 Feb 24 23:33	29°≈00'57	10 2002	morning man or	8538 Jan 30 23:57	0°≈	1, 2030
morning set	8537 Feb 25 10:27	29° ≈ 44'15		morning set	8538 Feb 06 15:26	10° ≈ 57'47	
3	8537 Feb 25 14:25	0°) €		desc. node	8538 Feb 11 20:28	19° ≈ 33'30	
					8538 Feb 18 07:05	0°) €	
superior conj	8537 Mar 13 06:58	24°) €43'48	-1°41'21				
minimum elong	8537 Mar 12 21:23	24° ₩ 06'17	1°40'27	superior conj	8538 Feb 20 17:42	3° ¥ 53'55	-1°01'24
max. Earth dist.	8537 Mar 13 18:54	25°) 30′28	1.45531 AU	minimum elong	8538 Feb 20 10:39	3° ¥ 25'53	1°00'24
	8537 Mar 16 15:47	$0^{\circ}\mathbf{\Upsilon}$		max. Earth dist.	8538 Feb 24 14:21	10°) 00′11	1.45254 AU
evening rise	8537 Mar 29 03:09	19° Ƴ 36′04		evening rise	8538 Mar 08 20:55	29°)(04'40	
	8537 Apr 04 17:14	0°8			8538 Mar 09 11:18	0° Y	
greatest brilliancy	8537 Apr 07 18:28	4° 8 46'29	-0.8m	greatest brilliancy	8538 Mar 23 00:58	20° Ƴ 34'51	-0.6m
asc. node	8537 Apr 19 08:04	21° 8 02'59			8538 Mar 29 17:36	$8^{\circ 0}$	
evening max el	8537 Apr 20 12:15	22° 8 18'04	18°58'07	evening max el	8538 Apr 03 17:53	5° 8 55'55	19°49'00
retrograde	8537 Apr 27 07:18	26° 8 05'31		asc. node	8538 Apr 06 05:11	8° 8 09'17	
evening set	8537 Apr 30 16:35	24° 8 59'03		retrograde	8538 Apr 11 05:18	10° 8 13'52	
inferior conj	8537 May 06 05:23	19° 8 14'37	3°22'48	evening set	8538 Apr 14 22:53	8° 8 52'34	
minimum elong	8537 May 06 05:29	19° 8 14'18	3°22'39	inferior conj	8538 Apr 20 07:41	2° 8 53'50	3°17'32
min. Earth dist.	8537 May 07 21:05	17° 8 09'06	0.66056 AU	minimum elong	8538 Apr 20 06:40	2° 8 57'16	3°17'20
morning rise	8537 May 11 17:53	12° 8 56'10		min. Earth dist.	8538 Apr 21 08:41	1° 8 30'10	0.67292 AU
direct	8537 May 18 03:10	10° 8 10'00			8538 Apr 22 12:21	30° ₹Ƴ	
desc. node	8537 May 23 23:21	12° 8 01'05		morning rise	8538 Apr 25 14:08	26° Y 35'58	
morning max el	8537 May 31 02:39	17° 8 53'05	26°31'21	direct	8538 May 01 12:28	23° Y 57'15	
	8537 Jun 10 06:23	$\Pi^{\circ}0$		desc. node	8538 May 10 20:18	28° Y 37'07	
	8537 Jun 29 15:57	0 \circ			8538 May 12 08:24	$_{0\circ}$ 8	
morning set	8537 Jul 06 01:31	11° © 36'14		morning max el	8538 May 13 12:20	1° 8 08'53	25°13'49
max. Earth dist.	8537 Jul 10 03:27	19° © 28'35	1.34598 AU		8538 Jun 04 06:19	Π $^{\circ}0$	
				morning set	8538 Jun 18 14:02	23° ∏ 52'33	
superior conj	8537 Jul 14 22:25	29° © 09'31			8538 Jun 21 22:28	0 \circ \odot	
minimum elong	8537 Jul 14 23:11	29° © 13'31	0°13'43	max. Earth dist.	8538 Jun 22 05:18	0° © 31'49	1.36488 AU
behind sun begin	8537 Jul 14 20:07	28° © 57'37				_	
behind sun end	8537 Jul 15 02:16	29°529'26		superior conj	8538 Jun 28 11:31	12° © 34'19	
	8537 Jul 15 08:11	0°N		minimum elong	8538 Jun 28 14:17	12°5548'01	0°45'03
asc. node	8537 Jul 16 07:12	1° £ 59′28		asc. node	8538 Jul 03 04:13	22°500'24	
evening rise	8537 Jul 22 11:45	14° £ 57′26		evening rise	8538 Jul 06 16:44	29° © 09'42	
	8537 Jul 30 03:08	0° m/y	20055120		8538 Jul 07 02:41	0°N	10042150
evening max el	8537 Aug 10 14:20	16° Mp 16'12	20°5/38	evening max el	8538 Jul 23 23:47	27° Ω 27'42	19°43'50
desc. node	8537 Aug 19 22:23	21° Mp 50'05			8538 Jul 27 00:09	0°Mp	
retrograde	8537 Aug 22 07:03	22° Mp 03'57		retrograde	8538 Aug 02 23:34	2° m 23'33	
evening set	8537 Aug 24 12:39	21° Mp 52'06 17° Mp 55'19	2050112	evening set desc. node	8538 Aug 04 19:59 8538 Aug 06 19:27	2° Mp 14'08	
inferior conj minimum elong	8537 Sep 02 18:15 8537 Sep 02 08:43	17 my 33 19 18° my 08'49		desc. node	8538 Aug 10 16:27	1° Mp 44'38 30° RΩ	
min. Earth dist.	8537 Sep 02 08:43 8537 Sep 03 09:48	17° Mp 33'15		inferior conj	8538 Aug 10 10.27 8538 Aug 13 17:09	30 και 28° Ω 11'51	-2°06'33
morning rise	8537 Sep 03 05:48 8537 Sep 11 05:02	17 m 59 13	0.54065 AC	minimum elong	8538 Aug 13 11:22	28° Ω 20'49	
direct	8537 Sep 11 03.02 8537 Sep 15 02:12	13° My 26'55		min. Earth dist.	8538 Aug 15 11:22 8538 Aug 15 21:25	26°Ω50'51	0.55327 AU
morning max el	8537 Sep 13 02.12 8537 Sep 28 01:16	19° m 38'38	22°53'31	morning rise	8538 Aug 13 21:23 8538 Aug 22 00:38	20 δ <i>t</i> 30 31 23° Ω 47'49	0.55521 AU
morning max ci	8537 Oct 06 15:30	0∘ ʊ	22 3331	direct	8538 Aug 26 16:43	22° Ω 59'29	
asc. node	8537 Oct 10 15:50 8537 Oct 12 06:54	o – 9° ≏ 11'21		morning max el	8538 Sep 09 13:40	29° Ω 53'22	24°39'29
morning set	8537 Oct 12 00:54 8537 Oct 20 16:52	25° Ω 46'37		morning max er	8538 Sep 09 16:28	0° m)	24 37 27
morning sec	8537 Oct 22 16:26	0°M		asc. node	8538 Sep 29 03:51	28° m) 19'22	
					8538 Sep 30 00:37	0∘ ⊽	
superior conj	8537 Oct 27 17:01	10°ML48'34	1°41'13	morning set	8538 Oct 05 04:37	0 — 10° Ω 35'47	
minimum elong	8537 Oct 27 16:57	10°ML48'11	1°41'21				
max. Earth dist.	8537 Oct 30 19:50	17°M23'56	1.33745 AU	superior conj	8538 Oct 12 01:37	25° ≏ 34'21	1°37'48
evening rise	8537 Nov 04 13:15	26°M59'29		minimum elong	8538 Oct 12 01:37 8538 Oct 12 00:28		1°37'50
<i>5 5</i>	8537 Nov 06 02:18	0° ∡ 7		max. Earth dist.	8538 Oct 13 21:32	29° ₽ 33'28	1.32578 AU
desc. node	8537 Nov 15 21:05	17° ∡ 32′25			8538 Oct 14 02:27	0°M	
	8537 Nov 23 21:14	0°₹		evening rise	8538 Oct 19 08:27	11.11603.34	
evening max el	8537 Nov 23 21:14 8537 Dec 09 02:46	0°궁 18°궁40'01	27°13'37	evening rise	8538 Oct 19 08:27 8538 Oct 29 08:40	11° M .03'59 0° ∡ 7	
evening max el	8537 Dec 09 02:46	18° ප් 40'01	27°13'37	desc. node	8538 Oct 29 08:40	0° ₹ 7° ₹ 20'34	
evening max el retrograde evening set			27°13'37			0° ₹	

evening max el	8538 Nov 21 14:04	1° る 49'17	27°29'28	desc. node	8539 Oct 20 15:14	26°M35'35	
retrograde	8538 Dec 05 07:44	9° ප 07'37			8539 Oct 22 22:41	0° ∡ ¹	
evening set	8538 Dec 12 09:06	6° る 37'55		evening max el	8539 Nov 03 21:20	14° ∡ ¹21'15	27°13'17
min. Earth dist.	8538 Dec 16 02:20	3° る 29'09	0.63206 AU	retrograde	8539 Nov 17 18:13	21° ∡ ³32'57	
inferior conj	8538 Dec 18 19:41	0° る 47'28	-2°24'09	evening set	8539 Nov 24 19:07	19° ∡ 19'32	
minimum elong	8538 Dec 19 00:16	0° る 36'07	2°22'10	min. Earth dist.	8539 Nov 28 12:02	16° ∡ ³34'11	0.61223 AU
	8538 Dec 19 14:58	30°₹ ⋌ 7		inferior conj	8539 Dec 01 13:53	13° ∡ 52'54	-3°34'40
morning rise	8538 Dec 25 17:26	25° х ³33′18		minimum elong	8539 Dec 01 20:34	13° ∡ ³38'15	3°32'16
asc. node	8538 Dec 26 03:21	25° ∡ ¹24'57		morning rise	8539 Dec 09 00:20	8° ∡ 757'53	
direct	8538 Dec 28 01:52	25° ₹ 07'00		direct	8539 Dec 11 05:26	8° ∡ ³37'37	
morning max el	8539 Jan 03 16:29	28° ∡ 31′27	17°47'47	asc. node	8539 Dec 13 00:22	8° ≯ 51'20	
	8539 Jan 05 01:39	0° ろ		morning max el	8539 Dec 18 07:53	12° ∡ 11'56	17°55'16
morning set	8539 Jan 19 22:10	23° පි 26'18			8539 Dec 30 05:55	0° ろ	
	8539 Jan 23 16:59	0° ≈		morning set	8540 Jan 02 23:56	6° る 48'22	
desc. node	8539 Jan 29 17:24	10° ≈ 14′04			0540 1 12 10 27	250 722005	0000100
	0520 E-L 01 01.10	1.49 • • 0.612.1	0917100	superior conj	8540 Jan 13 10:27	25°₹32'05	0°23'23
superior conj	8539 Feb 01 01:18	14°≈06'31		minimum elong	8540 Jan 13 12:25	25° る 40'37	0°23'16
minimum elong	8539 Jan 31 23:31	13°≈59'10	0°16'35	JJ.	8540 Jan 16 00:40	0°≈ 0°≈ •58120	
max. Earth dist.	8539 Feb 07 08:03 8539 Feb 10 22:03	24°≈19'02 0°) €	1.44276 AU	desc. node max. Earth dist.	8540 Jan 16 14:22	0°≈58'20 8°≈12'19	1.42697 AU
evening rise	8539 Feb 10 22.03 8539 Feb 16 08:09	8° \ 25'52		evening rise	8540 Jan 20 22:11 8540 Jan 27 04:03	8 ≈12 19 18°≈15'56	1.42097 AU
evening rise	8539 Mar 02 17:31	0° Υ		evening rise	8540 Feb 03 18:43	0° ₩	
evening max el	8539 Mar 17 18:07	19° Υ 35'39	20°53'45		8540 Feb 25 12:39	0°Υ	
asc. node	8539 Mar 24 02:16	24°Υ10'00	20 33 43	evening max el	8540 Feb 28 13:13	3° Υ 17'13	22°08'37
retrograde	8539 Mar 26 03:46	24° Υ 31'38		retrograde	8540 Mar 09 01:01	8° Υ 54'33	22 0037
evening set	8539 Mar 30 06:51	22°Υ55'06		asc. node	8540 Mar 09 23:21	8° Υ 50'10	
inferior conj	8539 Apr 04 14:09	16° Υ 44'09	3°00'46	evening set	8540 Mar 13 14:48	7° Υ 02'44	
minimum elong	8539 Apr 04 12:20	16°Υ50'26	3°00'23	inferior conj	8540 Mar 18 22:37	0° Υ 42'09	2°34'04
min. Earth dist.	8539 Apr 05 01:32	16° Ƴ 04'49	0.68085 AU	minimum elong	8540 Mar 18 20:24	0° Υ 49'52	2°33'30
morning rise	8539 Apr 09 17:35	10° Y 29'06		min. Earth dist.	8540 Mar 18 21:24	0° Ƴ 46'25	0.68434 AU
direct	8539 Apr 15 02:49	8° Y 06'03			8540 Mar 19 10:45	30° ₹	
morning max el	8539 Apr 25 21:21	14° Y 31'55	23°45'36	morning rise	8540 Mar 24 01:51	24° ℋ 31'26	
desc. node	8539 Apr 27 17:15	16° Y 27'34		direct	8540 Mar 28 21:07	22°) 29′04	
	8539 May 08 11:36	9° 8		morning max el	8540 Apr 07 08:36	28°) €03'00	22°16'35
	8539 May 28 04:18	$\Pi^{\circ}0$			8540 Apr 09 05:02	0° Υ	
morning set	8539 May 31 05:24	5° Ⅱ 07′28		desc. node	8540 Apr 13 14:12	5° Ƴ 11'54	
max. Earth dist.	8539 Jun 04 01:26	11° Ⅱ 46′38	1.38680 AU		8540 May 01 03:11	0°8	
				morning set	8540 May 10 18:33	15° 8 08'37	
superior conj	8539 Jun 11 11:40	25° Ⅱ 19'53	-1°17'07	max. Earth dist.	8540 May 15 23:39	23° 8 45'32	1.40924 AU
minimum elong	8539 Jun 11 16:28	25° ∏ 42′29	1°16'35		8540 May 19 15:21	$\Pi^{\circ}0$	
	8539 Jun 13 22:36	0 \circ \odot					
asc. node	8539 Jun 20 01:13	11° 9 52'46		superior conj	8540 May 23 18:29	7° Ⅱ 15'47	
evening rise	8539 Jun 20 14:41	12° © 58'32		minimum elong	8540 May 24 00:23	7° Ⅱ 42'08	1°45'09
	8539 Jun 29 20:33	0 \circ Ω		evening rise	8540 Jun 03 02:14	26° Ⅱ 15'25	
evening max el	8539 Jul 06 21:39	9° Ω 24'03	18°50'42		8540 Jun 05 02:23	0ංම	
retrograde	8539 Jul 15 07:23	13° Ω 34'02		asc. node	8540 Jun 05 22:15	1°532'09	
evening set	8539 Jul 17 06:56	13° £ 21′02		evening max el	8540 Jun 19 04:25	21°957'57	18,18,11
desc. node	8539 Jul 24 16:33	9° Ω 33'12 9° Ω 02'03	0012115	retrograde	8540 Jun 26 10:42	25°536'39	
inferior conj	8539 Jul 25 09:59 8539 Jul 25 09:26	9° Ω 02'03		evening set inferior conj	8540 Jun 28 17:17 8540 Jul 06 00:39	25°©16'00 20°©36'22	1010121
minimum elong transit middle	8539 Jul 25 09:26	9° Ω 03'02	0°13'13	minimum elong	8540 Jul 06 03:05	20 \$30 22 20° \$31'12	
transit begin	8539 Jul 25 07:19	9° Ω 06'51	0 13 13	min. Earth dist.	8540 Jul 09 10:00	17° 9 46'12	
transit end	8539 Jul 25 11:34	8° Ω 59'13		desc. node	8540 Jul 10 13:38	16°952'52	0.36647 AU
min. Earth dist.	8539 Jul 28 12:51	6° Ω 48'21	0.56813 AU	morning rise	8540 Jul 13 09:40	15° 9 01'59	
morning rise	8539 Aug 02 08:35	4°Ω01'20	0.50015 AC	direct	8540 Jul 19 14:53	13° © 18'09	
direct	8539 Aug 07 20:56	2° Ω 48'06		morning max el	8540 Aug 03 00:02	21°904'25	27°22'11
morning max el	8539 Aug 07 20:30 8539 Aug 22 03:44	10°Ω13'08	26°14'14	morning max of	8540 Aug 10 18:02	0°Ω	_, 11
	8539 Sep 06 06:09	0° m			8540 Aug 29 02:44	0° m/y	
asc. node	8539 Sep 16 00:47	17° m 50'32		asc. node	8540 Sep 01 21:45	7° m) 38'20	
morning set	8539 Sep 19 15:23	25° m 19'30		morning set	8540 Sep 02 23:34	9° m 53'10	
3 /	8539 Sep 21 19:28	0₀ ʊ		max. Earth dist.	8540 Sep 09 15:28	24° m/22'58	1.31629 AU
						•	
superior conj	8539 Sep 26 12:45	10° £ 24'30	1°28'40	superior conj	8540 Sep 10 00:33	25° m 13'23	1°14'18
minimum elong	8539 Sep 26 10:50	10° ≏ 13'58	1°28'31	minimum elong	8540 Sep 09 22:18	25° m/00'57	1°13'57
max. Earth dist.	8539 Sep 27 05:13	11° ≏ 55'43	1.31873 AU		8540 Sep 12 04:12	0∘ ত	
evening rise	8539 Oct 03 11:09	25° ≏ 27'39		evening rise	8540 Sep 16 18:55	10° ≏ 03'29	
	8539 Oct 05 15:54	0° M			8540 Sep 26 22:58	0° M	

desc. node	8540 Oct 06 12:21	15°M04'20			8541 Sep 03 17:20	0∘ ত	
evening max el	8540 Oct 15 21:41	26°M04'30	26°23'01		8541 Sep 21 09:17	0° M	
*	8540 Oct 20 17:52	0° ∡ 7		desc. node	8541 Sep 23 09:29	2°M28'36	
retrograde	8540 Oct 29 19:37	3° √ 09'59		evening max el	8541 Sep 27 13:49	6°M57'01	25°03'14
evening set	8540 Nov 05 10:26	1° ₹ 23'02		retrograde	8541 Oct 11 10:37	13°M56'33	
844	8540 Nov 07 18:06	30°RM₊		evening set	8541 Oct 17 02:29	12°M43'54	
min. Earth dist.	8540 Nov 09 10:58	28°M48'29	0.59133 AU	min. Earth dist.	8541 Oct 22 01:19	10°ML01'56	0.57150 AU
inferior conj	8540 Nov 12 15:31	26°M23'01	-4°39'25	inferior conj	8541 Oct 24 21:34	8° M .09'04	-5°25'20
minimum elong	8540 Nov 12 22:49	26°M09'06	4°37'31	minimum elong	8541 Oct 25 02:00	8°ML01'43	5°24'45
morning rise	8540 Nov 20 13:32	21°ML50'17		morning rise	8541 Nov 02 03:50	3°M59'16	
direct	8540 Nov 22 19:14	21°M32'53		direct	8541 Nov 04 14:55	3°M41'50	
asc. node	8540 Nov 28 21:23	23°M50'07		morning max el	8541 Nov 13 18:36	8°M03'22	19°11'13
morning max el	8540 Nov 30 17:47	25°M25'49	18°22'30	asc. node	8541 Nov 15 18:24	10°ML09'14	
	8540 Dec 04 14:52	0° ∡ 7			8541 Nov 28 00:15	0°⊀	
morning set	8540 Dec 16 15:03	20° ҂ ¹47′00		morning set	8541 Nov 30 15:20	5° ≯ 10′20	
	8540 Dec 21 11:00	0°ප					
				superior conj	8541 Dec 08 20:20	21° ∡ ¹24′07	1°18'49
superior conj	8540 Dec 25 18:28	8° る 02'37	0°55'38	minimum elong	8541 Dec 08 23:23	21° ∡ ³38'53	1°18'40
minimum elong	8540 Dec 25 21:48	8° る 17'54	0°55'22		8541 Dec 13 09:21	0°ප	
desc. node	8541 Jan 02 11:21	21° る 42'49		max. Earth dist.	8541 Dec 15 13:16	3° る 57'22	1.38525 AU
max. Earth dist.	8541 Jan 02 07:31	21° る 26'22	1.40700 AU	evening rise	8541 Dec 19 07:45	10°る38'03	
evening rise	8541 Jan 06 18:54	28° る 57'42		desc. node	8541 Dec 20 08:22	12° る 24'12	
	8541 Jan 07 10:04	0° ≈			8541 Dec 31 04:59	0° ≈	
	8541 Jan 27 07:32	0° ℋ			8542 Jan 22 22:44	0°) €	
evening max el	8541 Feb 10 04:25	17° ∺ 00′52	23°28'30	evening max el	8542 Jan 23 17:45	0°) 47'43	24°47'07
retrograde	8541 Feb 20 19:35	23° 升 17′50		retrograde	8542 Feb 04 10:25	7° ∺ 36'49	
asc. node	8541 Feb 24 20:28	21°) 58'18		evening set	8542 Feb 10 00:27	5° ∺ 17'14	
evening set	8541 Feb 25 21:11	21°) 11'17		asc. node	8542 Feb 11 17:33	3° ∺ 37′20	
inferior conj	8541 Mar 03 07:11	14°) 44′26	1°58'22	min. Earth dist.	8542 Feb 14 13:28	0° ∺ 09'41	0.67882 AU
minimum elong	8541 Mar 03 05:01	14°) 51′54	1°57'44		8542 Feb 14 16:25	30° R ≈	
min. Earth dist.	8541 Mar 02 18:06	15° ∺ 29'21	0.68359 AU	inferior conj	8542 Feb 15 14:02	28° ≈ 48'22	1°14'13
morning rise	8541 Mar 08 12:50	8° ∺ 39'16		minimum elong	8542 Feb 15 12:23	28° ≈ 53'48	1°13'43
direct	8541 Mar 12 18:17	6° ¥ 59′23		morning rise	8542 Feb 21 00:33	22° ≈ 50'10	
morning max el	8541 Mar 21 01:33		20°54'37	direct	8542 Feb 24 17:10	21° ≈ 31'56	
desc. node	8541 Mar 31 11:08	24°) (34'55		morning max el	8542 Mar 04 02:15	25°≈39'20	19°45'03
	8541 Apr 04 07:06	0° Υ			8542 Mar 07 22:55	0° ∀	
morning set	8541 Apr 20 05:23	23° Y 58'47		greatest brilliancy	8542 Mar 16 20:58	12°) 17′04	-0.6m
T	8541 Apr 24 01:04	0° 8		desc. node	8542 Mar 18 08:03	14° ¥ 26′22	
max. Earth dist.	8541 Apr 28 04:13	6° 8 38'31	1.42934 AU		8542 Mar 28 14:55	0° Υ	
	0541 M 05 02 15	100 🔾 10140	2005152	morning set	8542 Mar 30 03:04	2°Υ18'59	1 44466 411
superior conj	8541 May 05 03:15	18° 8 10'49		max. Earth dist.	8542 Apr 10 15:34	20° Y 18'34	1.44466 AU
minimum elong	8541 May 05 07:37	18° ႘ 29'18 0° Ⅱ	2°05'49		0542 A 15 11.20	200001154	2011140
	8541 May 11 23:39	0° П 8° П 49'27		superior conj minimum elong	8542 Apr 15 11:20 8542 Apr 15 10:09	28° Y 01'54 27° Y 57'08	
evening rise asc. node	8541 May 16 23:07 8541 May 23 19:19	8 Щ4927 20°Щ52'41		minimum eiong	8542 Apr 16 16:31	0° 8	2 11 32
asc. Houc	8541 May 29 13:35	20 H 32 41		evening rise	8542 Apr 29 00:38	20° 8 30'51	
evening max el	8541 Jun 02 16:12	4°958'56	18°05'26	evening rise	8542 May 04 15:06	0°II	
retrograde	8541 Jun 09 06:41	8°922'07	10 03 20	asc. node	8542 May 10 16:24	9° Ⅱ 48'10	
evening set	8541 Jun 11 20:45	7°950'50		evening max el	8542 May 17 05:38	18° Ⅱ 18'59	18°11'41
inferior conj	8541 Jun 18 11:12	2° 9 51'11	2°22'30	retrograde	8542 May 23 14:46	21° II 41'05	
minimum elong	8541 Jun 18 14:12	2°543'53		evening set	8542 May 26 12:12	20° I 57'06	
	8541 Jun 21 09:41	30°R∏		inferior conj	8542 Jun 01 13:44	15° II 39'03	3°01'14
min. Earth dist.	8541 Jun 21 15:07	29° ∏ 47'22	0.61095 AU	minimum elong	8542 Jun 01 15:53	15° Ⅱ 33'06	3°00'41
morning rise	8541 Jun 25 05:14	26° Ⅲ 53'00	-	min. Earth dist.	8542 Jun 04 05:24	12° Ⅱ 44'36	0.63268 AU
desc. node	8541 Jun 27 10:42	25° Ⅱ 38'10		morning rise	8542 Jun 07 18:05	9° Ⅱ 27'30	
direct	8541 Jul 01 20:39	24° Ⅲ 39'15		desc. node	8542 Jun 14 07:45	6° Ⅱ 51'46	
	8541 Jul 13 06:29	0ಂಣ		direct	8542 Jun 14 12:17	6° Ⅱ 51'40	
morning max el	8541 Jul 16 03:10	2° © 38'44	27°53'53	morning max el	8542 Jun 28 11:12	14° Ⅱ 54'42	27°47'23
-	8541 Aug 05 05:09	$0^{\circ}\Omega$			8542 Jul 10 17:40	0ංම	
morning set	8541 Aug 18 03:15	24° Ω 11′00			8542 Jul 28 20:23	$0^{\circ}\Omega$	
asc. node	8541 Aug 19 18:44	27° Ω 36'45		morning set	8542 Aug 02 00:14	8° Ω 06'37	
	8541 Aug 20 21:45	0° m p		asc. node	8542 Aug 06 15:42	17° Ω 41'15	
max. Earth dist.	8541 Aug 24 00:17	6° Mp 43′06	1.31839 AU	max. Earth dist.	8542 Aug 07 03:41	18° Ω 44'43	1.32525 AU
superior conj	8541 Aug 25 11:13	9° ™ 54'58	0°55'03	superior conj	8542 Aug 09 18:53	24° Ω 23'47	0°31'20
minimum elong	8541 Aug 25 09:07	9° ™ 43′26	0°54'35	minimum elong	8542 Aug 09 17:28	24° Ω 16′06	0°30'54
evening rise	8541 Sep 01 05:35	24° Mp 44'41			8542 Aug 12 08:44	0° m	

evening rise	8542 Aug 16 17:13 8542 Aug 27 06:27	9° ™ 25'35 0° ₽		asc. node evening rise	8543 Jul 24 12:41 8543 Aug 01 03:59	7° Ω 47'49 24° Ω 00'49	
evening max el	8542 Sep 09 01:09	17° ≏ 14'57	23°26'12		8543 Aug 04 01:17	0° ™	
desc. node	8542 Sep 10 06:36	18° ≏ 23'22		evening max el	8543 Aug 21 15:55	27° m 31'44	21°48'32
retrograde	8542 Sep 22 13:24	24° ഫ 00'13			8543 Aug 24 11:34	0∘ ⊽	
evening set	8542 Sep 26 18:41	23° ≏ 21'18		desc. node	8543 Aug 28 03:43	2° ≏ 18'07	
min. Earth dist.	8542 Oct 03 10:58			retrograde	8543 Sep 03 04:37	3° ≏ 44'56	
inferior conj	8542 Oct 05 07:38	19° ≏ 07'30		evening set	8543 Sep 05 23:46	3° ≏ 27'21	
minimum elong	8542 Oct 05 05:07	19° ≏ 11'13	5°33'32		8543 Sep 14 04:21	30°R, Mp	
morning rise	8542 Oct 13 17:39	15° Ω 14'59		inferior conj	8543 Sep 15 03:12	29° m 28'07	
direct	8542 Oct 16 15:14	14° £ 54'30		minimum elong	8543 Sep 14 18:21	29° m/40'29	4°46'29
morning max el	8542 Oct 27 07:10	19° £ 54'48	20°22'20	min. Earth dist.	8543 Sep 14 19:22	29° m/39'04	0.54754 AU
asc. node	8542 Nov 02 15:24	27° £ 32'44		morning rise	8543 Sep 23 14:09	25° m/39'08	
	8542 Nov 04 06:17	0°M		direct	8543 Sep 27 02:13	25° m 12'14	
morning set	8542 Nov 14 21:36	19°M48'49			8543 Oct 08 05:03	0° ⊽	2105401
	8542 Nov 19 20:07	0° ∡ 7		morning max el	8543 Oct 09 06:46		21°54'01
	0542 N 22 11 11	50 70000	1022125	asc. node	8543 Oct 20 12:22	15° Ω 46'16	
superior conj	8542 Nov 22 11:11	5°×722'03	1°33'25		8543 Oct 28 02:08	0°M 4°M 2€112	
minimum elong max. Earth dist.	8542 Nov 22 13:10	5° ₹32'02 15° ₹57'50	1°33'27 1.36431 AU	morning set	8543 Oct 30 07:30	4°M36'12	
evening rise	8542 Nov 27 20:04 8542 Dec 01 16:36	13 x ·3/30 23° x 11'10	1.30431 AU	superior conj	8543 Nov 06 11:14	19°M45'36	1°40'20
evening rise	8542 Dec 05 12:09	23 メ ・11 10 0° る		minimum elong	8543 Nov 06 11:14 8543 Nov 06 11:53	19°M49'03	1°40'20
desc. node	8542 Dec 03 12:09 8542 Dec 07 05:23	0 3 2° る 57'50		max. Earth dist.	8543 Nov 10 09:14	27°M51'27	1.34621 AU
desc. Hode	8542 Dec 07 03:23 8542 Dec 24 22:30	2 3 3730		max. Earm dist.	8543 Nov 10 09:14 8543 Nov 11 10:44	27 1163127 0° √ 7	1.34021 AU
evening max el	8543 Jan 06 06:51	0 ~ 14° ≈ 35'00	25°57'31	evening rise	8543 Nov 14 17:45	6° ∡ 127'45	
retrograde	8543 Jan 18 20:24	21°≈44'50	23 37 31	desc. node	8543 Nov 24 02:26	23°×19'07	
evening set	8543 Jan 24 22:54	19°≈15'07		desc. node	8543 Nov 28 04:38	0° る	
min. Earth dist.	8543 Jan 29 05:14	14°≈42'05	0.67027 AU	evening max el	8543 Dec 19 20:15	00 28° ろ 16'28	26°52'09
asc. node	8543 Jan 29 14:39	14°≈12'50	0.07027110	evening max or	8543 Dec 21 17:23	0°≈	20 52 05
inferior conj	8543 Jan 30 17:13	12°≈49'29	0°21'59	retrograde	8544 Jan 02 00:42	5°≈35'21	
minimum elong	8543 Jan 30 16:39	12°≈51'16	0°21'55	evening set	8544 Jan 08 14:39	3°≈00'06	
morning rise	8543 Feb 05 10:59	7°≈00'05		V V V V V V V V V V V V V V V V V V V	8544 Jan 11 18:03	30°Rる	
direct	8543 Feb 08 16:10	6°≈00'58		min. Earth dist.	8544 Jan 12 15:04	29° る 01'28	0.65811 AU
morning max el	8543 Feb 15 10:26	9° ≈ 42'13	18°50'39	inferior conj	8544 Jan 14 14:39	26° る 43'32	-0°37'47
S	8543 Mar 02 05:12	0°) €		minimum elong	8544 Jan 14 15:43	26° ප් 40'24	0°37'09
desc. node	8543 Mar 05 04:57	4°) 37′55		asc. node	8544 Jan 16 11:43	24° る 36'27	
morning set	8543 Mar 09 11:35	11°) (17′55		morning rise	8544 Jan 20 17:53	21° る 05'28	
	8543 Mar 21 10:54	$0^{\circ}\mathbf{\Upsilon}$		direct	8544 Jan 23 13:26	20° る 22'00	
max. Earth dist.	8543 Mar 24 08:07	4° Ƴ 31′00	1.45353 AU	morning max el	8544 Jan 30 00:21	23° る 48'32	18°12'42
					8544 Feb 04 02:34	0° ≈	
superior conj	8543 Mar 25 22:42	7° Y 02'23	-1°58'10	morning set	8544 Feb 17 23:35	21° ≈ 41′13	
minimum elong	8543 Mar 25 14:46	6° Y 31'16	1°57'40	desc. node	8544 Feb 20 01:51	25° ≈ 04'07	
	8543 Apr 09 08:53	9° 8			8544 Feb 23 03:29	0°)	
evening rise	8543 Apr 10 02:55	1° 8 12'49					
asc. node	8543 Apr 27 13:29	28° 8 10'00		superior conj	8544 Mar 04 03:53	15° ¥ 53′00	
	8543 Apr 29 01:17	$\Pi^{\circ}0$		minimum elong	8544 Mar 03 18:39	15°) 16′45	
evening max el	8543 Apr 30 17:48	1° ∏ 50′19	18°36'14	max. Earth dist.	8544 Mar 06 03:42	19°) €00'33	1.45508 AU
retrograde	8543 May 07 06:47	5° Ⅱ 24'44			8544 Mar 13 04:36	0°Υ	
evening set	8543 May 10 11:38	4° Ⅱ 26'42		evening rise	8544 Mar 20 06:33	11° Υ 01'58	0.7
	8543 May 15 05:19	30° ₹ 8	2010120	greatest brilliancy	8544 Apr 01 00:47	29° Y 13'40	-0.7m
inferior conj	8543 May 16 04:07	28° 8 51'39			8544 Apr 01 13:02	0°8	10017177
minimum elong	8543 May 16 04:58	28° 8 49'04	3°19'26	evening max el	8544 Apr 13 02:20	15° 8 27'01	19°17'57
min. Earth dist.	8543 May 18 04:44	26° 8 24'47	0.65153 AU	asc. node	8544 Apr 13 10:34	15° 8 47'31	
morning rise	8543 May 21 21:32	22° 8 34'28		retrograde	8544 Apr 20 03:19	19° 8 25'49	
direct	8543 May 28 11:44	19° 8 48'26		evening set	8544 Apr 23 16:07	18° 8 12'57	2922107
desc. node morning max el	8543 Jun 01 04:44 8543 Jun 10 21:22	20° 8 33'21 27° 8 42'35	27°06'50	inferior conj minimum elong	8544 Apr 29 02:53 8544 Apr 29 02:29	12° 8 22'21 12° 8 23'41	3°22'06 3°21'57
morning max ci	8543 Jun 13 01:23	27 O 42 33 0° Ⅱ	21 00 33	min. Earth dist.	8544 Apr 30 12:12	12 8 23 41	0.66639 AU
	8543 Jul	0°9		morning rise	8544 May 04 12:28	6° 8 04'05	0.000 <i>33 A</i> U
morning set	8543 Jul 16 11:41	0 3 21° 9 32'17		direct	8544 May 10 17:34	3° 8 19'56	
morning sot	8543 Jul 20 18:10	21 3 32 17 0° Ω		desc. node	8544 May 18 01:41	6° 8 14'34	
max. Earth dist.	8543 Jul 20 22:10		1.33701 AU	morning max el	8544 May 23 07:30	10° 8 50'45	26°00'22
Zurur uist.	55.5 tai 20 22.10	U U LU 10	1.55 / 01 / 10		8544 Jun 07 12:40	0°П	
superior conj	8543 Jul 24 21:28	8° Ω 33'56	0°03'42		8544 Jun 26 01:26	0°95	
minimum elong	8543 Jul 24 21:17	8° Ω 32'59	0°03'30	morning set	8544 Jun 28 09:51	4°9517'07	
behind sun begin	8543 Jul 24 15:47	8° Ω 04'04		max. Earth dist.	8544 Jul 02 06:00	11° © 32'00	1.35357 AU
behind sun end	8543 Jul 25 02:47	9° Ω 01'56			•		-

superior conj	8544 Jul 07 16:22	22° © 17'34	-0°26'56	superior conj	8545 Jun 21 00:26	5° © 26'50	-0°58'58
minimum elong	8544 Jul 07 17:56	22°\$25'35		minimum elong	8545 Jun 21 04:06	5° 9 44'37	0°58'31
asc. node	8544 Jul 10 09:40	27° 9 51'52	0 20 48	asc. node	8545 Jun 27 06:41	17° © 49'48	0 3831
asc. node	8544 Jul 11 10:28	0°Ω		evening rise	8545 Jun 29 14:09	22°\$27'08	
evening rise	8544 Jul 15 11:45	8° Ω 23'30		evening rise	8545 Jul 03 10:21	0°Ω	
evening rise	8544 Jul 27 03:58	0° Mp		evening max el	8545 Jul 16 08:32		19°18'35
evening max el	8544 Aug 02 17:35	8° Mp 17'48	20°23'46	retrograde	8545 Jul 25 15:16	24°Ω23'42	17 10 55
retrograde	8544 Aug 13 16:51	13° Mp 43'22	20 25 40	evening set	8545 Jul 27 12:04	24°Ω13'21	
desc. node	8544 Aug 14 00:49	13° Mp 43'05		desc. node	8545 Jul 31 21:53	22° Ω 36'46	
evening set	8544 Aug 15 16:48	13° My 33'21		inferior conj	8545 Aug 05 02:07	20°Ω04'25	-1°16'55
inferior conj	8544 Aug 24 20:32	9° m/35'53	-3°13'09	minimum elong	8545 Aug 04 22:42	20°Ω10'04	1°15'44
minimum elong	8544 Aug 24 12:02	9° m)48'16		min. Earth dist.	8545 Aug 07 17:45	18° Ω 19'56	0.55874 AU
min. Earth dist.	8544 Aug 26 04:52	8° mp 48'48	0.54850 AU	morning rise	8545 Aug 13 06:33	15° Ω 25'04	
morning rise	8544 Sep 02 06:34	5° m/30'16		direct	8545 Aug 18 07:07	14° Ω 27'29	
direct	8544 Sep 06 11:38	4° m/52'11		morning max el	8545 Sep 01 09:42	21°Ω35'35	25°22'10
morning max el	8544 Sep 19 21:11	11° m/22'02	23°38'47	C	8545 Sep 08 18:21	0° m)	
Č	8544 Oct 03 19:12	0∘ <u>⊽</u>		asc. node	8545 Sep 23 06:17	23° m 55'37	
asc. node	8544 Oct 06 09:20	4° £ 36'59			8545 Sep 26 06:26	0∘ ⊽	
morning set	8544 Oct 13 19:05	19° ≏ 26'01		morning set	8545 Sep 28 06:38	4° £ 13′27	
C	8544 Oct 18 16:33	0° M .		C	•		
				superior conj	8545 Oct 05 03:21	19° Ω 13'16	1°34'36
superior conj	8544 Oct 20 17:25	4°M25'04	1°40'30	minimum elong	8545 Oct 05 01:50	19° Ω 04'54	1°34'33
minimum elong	8544 Oct 20 16:51	4°M22'01	1°40'35	max. Earth dist.	8545 Oct 06 11:26	22° ഫ 09'26	1.32226 AU
max. Earth dist.	8544 Oct 23 06:44	9°M53'50	1.33201 AU		8545 Oct 10 02:33	o° m ₊	
evening rise	8544 Oct 28 07:20	20°M16'52		evening rise	8545 Oct 12 06:03	4°M30'00	
-	8544 Nov 02 08:07	0° ∡ ¹		-	8545 Oct 26 00:26	0°⊀	
desc. node	8544 Nov 09 23:31	13° ∡ °21′27		desc. node	8545 Oct 27 20:36	2° ₹ 56'44	
	8544 Nov 21 04:57	5°0		evening max el	8545 Nov 13 18:34	24° ∡ °34'39	27°26'34
evening max el	8544 Dec 01 08:51	11° ⋜ 40'46	27°23'56	-	8545 Nov 20 23:38	5°0	
retrograde	8544 Dec 14 22:37	19° ට 00'26		retrograde	8545 Nov 27 13:42	1°る50'32	
evening set	8544 Dec 21 21:21	16° පි 26'04		-	8545 Dec 03 18:35	30°R. ✓	
min. Earth dist.	8544 Dec 25 16:41	13° る 00'29	0.64249 AU	evening set	8545 Dec 04 16:02	29° ₹ 26′08	
inferior conj	8544 Dec 28 03:52	10° る 24'41	-1°43'59	min. Earth dist.	8545 Dec 08 08:22	26° ≯ 28'50	0.62388 AU
minimum elong	8544 Dec 28 07:05	10° ප 16'11	1°42'28	inferior conj	8545 Dec 11 05:57	23° ∡ ¹45'24	-2°54'14
asc. node	8545 Jan 02 08:46	5°₹45'05		minimum elong	8545 Dec 11 11:30	23° ∡ ³32'19	2°52'00
morning rise	8545 Jan 03 18:29	5° る 00'59		morning rise	8545 Dec 18 09:09	18° ∡ ³39′20	
direct	8545 Jan 06 06:21	4° る 29'26		asc. node	8545 Dec 20 05:48	18° ⊀ 16'50	
morning max el	8545 Jan 12 17:23	7° る 51'41	17°51'53	direct	8545 Dec 20 15:48	18° ≯ 16′02	
	8545 Jan 27 14:51	0° ≈		morning max el	8545 Dec 27 10:25	21° х 43′20	17°48'44
morning set	8545 Jan 29 16:18	3° ≈ 29′10			8546 Jan 02 18:30	8°0	
desc. node	8545 Feb 05 22:48	15° ≈ 40'34		morning set	8546 Jan 12 07:53	16° る 22'20	
					8546 Jan 20 01:57	0°≈	
superior conj	8545 Feb 11 22:08	25° ≈ 25'57	-0°42'30				
minimum elong	8545 Feb 11 17:19	25° ≈ 06'32	0°41'41	superior conj	8546 Jan 23 16:39	6° ≈ 09'49	0°00'58
	8545 Feb 14 18:29	0° ℋ		minimum elong	8546 Jan 23 16:45	6° ≈ 10′16	0°01'08
max. Earth dist.	8545 Feb 16 23:19	3° ∺ 29'45	1.44919 AU	behind sun begin	8546 Jan 23 07:52	5° ≈ 32'47	
evening rise	8545 Feb 27 19:42	20° ∺ 22'57		behind sun end	8546 Jan 24 01:37	6° ≈ 47'40	
	8545 Mar 06 03:10	0°Υ		desc. node	8546 Jan 23 19:47	6° ≈ 23'03	
evening max el	8545 Mar 27 05:43	29° Y 05'45	20°15'03	max. Earth dist.	8546 Jan 30 15:40	17° ≈ 39'11	1.43661 AU
	8545 Mar 28 03:51	0°8		evening rise	8546 Feb 07 08:50	29°≈51'42	
asc. node	8545 Mar 31 07:39	2° 8 27'56			8546 Feb 07 10:58	0° ∀	
retrograde	8545 Apr 04 01:49	3° 8 39'03			8546 Feb 27 19:17	0° Υ	
evening set	8545 Apr 07 23:23	2° 8 11'03		evening max el	8546 Mar 10 03:29	12° Y 45′08	21°24'38
	8545 Apr 10 06:18	30° Ŗ ♈		asc. node	8546 Mar 18 04:45	17° Y 55'53	
inferior conj	8545 Apr 13 07:14	26° Y 06'40		retrograde	8546 Mar 19 00:05	17° Y 59'11	
minimum elong	8545 Apr 13 05:50	26° Y 11′28		evening set	8546 Mar 23 07:32	16° Y 16′03	
min. Earth dist.	8545 Apr 14 02:12	25° Y 02'08	0.67681 AU	inferior conj	8546 Mar 28 14:48		2°50'34
morning rise	8545 Apr 18 12:04	19° Y 49'58		minimum elong	8546 Mar 28 12:46	10° Y 07′26	2°50'07
direct	8545 Apr 24 04:56	17° Y 17'24		min. Earth dist.	8546 Mar 28 20:39	9° Υ 39'59	0.68279 AU
desc. node	8545 May 04 22:37	23° Y 25'14		morning rise	8546 Apr 02 17:49	3°Υ46'52	
morning max el	8545 May 05 16:52	24° Y 10′34	24°37'09	direct	8546 Apr 07 21:00	1° Υ 32'24	
	8545 May 10 21:52	0° B		morning max el	8546 Apr 18 02:34		23°07'23
	8545 May 31 22:47	0°II		desc. node	8546 Apr 21 19:35	11° Y 40'23	
morning set	8545 Jun 10 14:04	16° Ⅱ 09'07	1.00000 :		8546 May 05 12:59	0°8	
max. Earth dist.	8545 Jun 14 05:06	22° I I38'21	1.37399 AU	morning set	8546 May 22 18:47	26° 8 53'30	
	8545 Jun 18 04:14	0ං ව			8546 May 24 15:10	0°II	1.00 (10 : =:
				max. Earth dist.	8546 May 27 01:06	4° Ⅱ 07'44	1.39640 AU

superior conj	8546 Jun 03 17:43	17° Ⅱ 51'40	-1°29'51	superior conj	8547 May 16 15:39	29° 8 22'11 -1°55'33
minimum elong	8546 Jun 03 23:11	18° I 16'50		minimum elong	8547 May 16 21:20	29° 8 47'00 1°55'16
	8546 Jun 10 04:28	0ංම 			8547 May 17 00:18	0°Ⅱ
evening rise	8546 Jun 13 08:07	6°903'02		evening rise	8547 May 27 13:56	19° Ⅲ 02'04
asc. node	8546 Jun 14 03:42	7° 9 36'53		asc. node	8547 Jun 01 00:44	27° Ⅱ 08′24
	8546 Jun 27 14:05	$0^{\circ}\Omega$			8547 Jun 02 15:23	0ං ම
evening max el	8546 Jun 29 10:36	2° Ω 01'12	18°34'25	evening max el	8547 Jun 12 19:59	14° 5 647'33 18°10'29
retrograde	8546 Jul 07 07:29	5° Ω 56'13		retrograde	8547 Jun 19 18:06	18° © 17'29
evening set	8546 Jul 09 09:38	5° Ω 40'33		evening set	8547 Jun 22 03:56	17° © 52'37
inferior conj	8546 Jul 17 04:12	1° Ω 13'05		inferior conj	8547 Jun 29 03:41	13°504'40 1°49'00
minimum elong	8546 Jul 17 05:16	1° Ω 11'03	0°28'22	minimum elong	8547 Jun 29 06:36	12°958'06 1°47'55
desc. node	8546 Jul 18 18:57	29°958'03		min. Earth dist.	8547 Jul 02 12:04	10°S05'28 0.59795 A
i matra	8546 Jul 18 17:56	30°R≌	0.57625.444	desc. node	8547 Jul 05 16:02	7°541'14
min. Earth dist.	8546 Jul 20 11:41	28°5541'06	0.57625 AU	morning rise	8547 Jul 06 06:18	7°©18'56
morning rise direct	8546 Jul 24 21:21 8546 Jul 30 17:23	25°\$56'43 24°\$30'43		direct morning max el	8547 Jul 12 16:59 8547 Jul 27 01:22	5°\$21'25 13°\$14'43 27°40'22
direct	8546 Aug 11 18:34	24 3 30 43 0° Ω		morning max er	8547 Aug 09 09:18	13 3 1443 27 40 22 0° Ω
morning max el	8546 Aug 14 02:17	2° Ω 06'50	26°47'08		8547 Aug 09 09:18 8547 Aug 26 08:06	0° m)
morning max ci	8546 Sep 03 01:18	0° m)	20 47 08	morning set	8547 Aug 27 23:02	3° Mp 21'08
asc. node	8546 Sep 10 03:16	13° m) 34'42		asc. node	8547 Aug 28 00:13	3° m/27'21
morning set	8546 Sep 12 16:33	18° m 53'51		max. Earth dist.	8547 Sep 03 06:28	16° Mp 59'16 1.31655 A
	8546 Sep 17 19:02	0∘ ಹ				
				superior conj	8547 Sep 04 02:34	18° m 50'30 1°06'44
superior conj	8546 Sep 19 15:02	4° £ 04'04	1°23'13	minimum elong	8547 Sep 04 00:20	18° mp 38'06 1°06'19
minimum elong	8546 Sep 19 12:56	3° ≏ 52'24	1°22'57		8547 Sep 09 03:55	0∘ ⊽
max. Earth dist.	8546 Sep 19 20:31	4° ₽ 34'32	1.31708 AU	evening rise	8547 Sep 10 20:25	3° △ 38'35
evening rise	8546 Sep 26 11:12	18° ≙ 59'48			8547 Sep 24 18:48	0° M
	8546 Oct 01 21:15	0°M₊		desc. node	8547 Oct 01 14:49	9° M .58'13
desc. node	8546 Oct 14 17:42	21°M54'15		evening max el	8547 Oct 08 20:05	18°ML08'47 25°52'18
	8546 Oct 20 17:48	0° ∡ ¹		retrograde	8547 Oct 22 18:20	25°M11'53
evening max el	8546 Oct 26 23:04	6° ∡ ¹46'54	26°55'56	evening set	8547 Oct 29 00:47	23°M39'15
retrograde	8546 Nov 09 20:59	13° ∡ 56'45		min. Earth dist.	8547 Nov 02 08:47	21°M03'38 0.58259 A)
evening set	8546 Nov 16 18:50	11° ∡ ′53′13		inferior conj	8547 Nov 05 11:16	18°ML50'11 -5°02'12
min. Earth dist.	8546 Nov 20 13:31	9° √ 14'22	0.60332 AU	minimum elong	8547 Nov 05 17:52	18°MJ38'16 5°00'50
inferior conj	8546 Nov 23 17:36	6° ₹37'26		morning rise	8547 Nov 13 13:16	14° M .27'01
minimum elong	8546 Nov 24 00:50	6° 🗷 22'28	4°01'10	direct	8547 Nov 15 20:30	14° ጤ 10'00 17° ጤ 58'28
morning rise direct	8546 Dec 01 09:16 8546 Dec 03 13:55	1° ∡ 751′51 1° ∡ 733′19		asc. node morning max el	8547 Nov 23 23:52 8547 Nov 24 06:33	18°M14'18 18°40'24
asc. node	8546 Dec 03 13:53 8546 Dec 07 02:50	2° 🗷 23'51		morning max er	8547 Nov 24 00:33 8547 Dec 02 20:09	18 IIG14 18 18 40 24 0° ₹
morning max el	8546 Dec 11 00:04		18°04'20	morning set	8547 Dec 02 20:09 8547 Dec 10 11:29	14° ∡ 12'23
morning set	8546 Dec 26 16:00	0° 중 01'59	10 0420	morning set	8547 Dec 18 15:54	0°る
	8546 Dec 26 15:34	0°ਰ				
				superior conj	8547 Dec 19 04:24	0°る58'48 1°06'33
superior conj	8547 Jan 05 12:11	18° る 05'13	0°38'09	minimum elong	8547 Dec 19 07:45	1°814'34 1°06'18
minimum elong	8547 Jan 05 14:59	18° る 17'41	0°37'54	max. Earth dist.	8547 Dec 26 10:39	14°る10'00 1.39788 A
desc. node	8547 Jan 10 16:47	27° る 08'08		desc. node	8547 Dec 28 13:47	17° る 51'36
	8547 Jan 12 09:21	0° ≈		evening rise	8547 Dec 30 12:21	21° ප 09'27
max. Earth dist.	8547 Jan 13 03:17	1° ≈ 15'12	1.41882 AU		8548 Jan 04 21:45	0° ≈
evening rise	8547 Jan 18 12:04	10° ≈ 02'24			8548 Jan 25 14:50	0°) €
	8547 Jan 31 12:36	0° ∺		evening max el	8548 Feb 03 11:02	10° 米 12'47 24°02'33
evening max el	8547 Feb 20 20:41	26° ₩ 27'15	22°42'20	retrograde	8548 Feb 14 13:28	16°) 44′09
	8547 Feb 24 21:42	0° Υ		evening set	8548 Feb 19 20:14	14°\(\frac{1}{32}\)'03
retrograde	8547 Mar 02 20:26	2°Υ22'29		asc. node	8548 Feb 19 22:56	14° \(\) 26'15
asc. node evening set	8547 Mar 05 01:50 8547 Mar 07 15:00	1° Ƴ 57'41 0° Ƴ 24'29		min. Earth dist. inferior conj	8548 Feb 24 13:44 8548 Feb 25 07:38	9° 米 04'36 0.68209 A\ 8° 米 03'57 1°40'41
evening set	8547 Mar 08 02:09	0 1 24 29 30°R ∺		minimum elong	8548 Feb 25 05:38	8° H 10'46 1°40'03
inferior conj	8547 Mar 12 23:34	24° ₩ 00'40	2°19'59	morning rise	8548 Mar 01 15:02	2° \ 01'24
minimum elong	8547 Mar 12 21:19	24°) 08'29		direct	8548 Mar 05 14:59	0°) (30′42
min. Earth dist.	8547 Mar 12 17:17	24°)(22'30		morning max el	8548 Mar 13 11:46	4°) 58′25 20°23′11
morning rise	8547 Mar 18 03:29	17° ₩ 51'51	-	desc. node	8548 Mar 25 13:30	20° ∺ 18'38
direct	8547 Mar 22 16:47	15° ¥ 58'54			8548 Apr 01 04:20	0° Υ
morning max el	8547 Mar 31 15:47	21° ∺ 11'49	21°40'21	morning set	8548 Apr 10 22:44	14° Ƴ 51'03
	8547 Apr 08 03:33	0° Y		max. Earth dist.	8548 Apr 20 08:40	29° Ƴ 41'09 1.43660 A
desc. node	8547 Apr 08 16:33	0° Ƴ 42'32			8548 Apr 20 13:22	0° 8
	8547 Apr 28 19:07	9° 8				
morning set	8547 May 02 20:05	6° 8 21'40		superior conj	8548 Apr 26 14:02	9° 8 50'08 -2°10'31
max. Earth dist.	8547 May 09 01:02	16° 8 26'23	1.41822 AU	minimum elong	8548 Apr 26 16:31	10° 8 00'26 2°10'35

	8548 May 08 10:01	0°II		max. Earth dist.	8549 Apr 02 23:07	13° Y '38'57	1.44932 AU
evening rise	8548 May 09 03:07	1° Ⅱ 14'35			0540 4 06 12.00	1000015140	2000122
asc. node	8548 May 17 21:48	16° Ⅱ 18'59 27° Ⅱ 57'57	10005152	superior conj	8549 Apr 06 12:08	19° Υ 15'42 18° Υ 58'36	
evening max el	8548 May 26 08:56	2/° щ 3/'3/	18°05'52	minimum elong	8549 Apr 06 07:50 8549 Apr 13 04:22	0.8 18, 1.28,20	2.08.27
retrograde	8548 May 28 20:16 8548 Jun 01 19:44	0 55 1°5518'37		evening rise	8549 Apr 20 19:02	12° 8 30'49	
evening set	8548 Jun 04 13:05	0°9541'58		evening rise	8549 May 01 10:56	0°Ⅱ	
evening set	8548 Jun 05 20:24	30°R∏		asc. node	8549 May 04 18:52	5° П 00'56	
inferior conj	8548 Jun 10 21:31	25° I I34'13	2°41'44	evening max el	8549 May 09 22:07	11° I I23'06	18°19'55
minimum elong	8548 Jun 11 00:16	25° I I27'09	2°40'56	retrograde	8549 May 16 07:45	14° ∏ 48'57	
min. Earth dist.	8548 Jun 13 20:45	22° II 32'02	0.62045 AU	evening set	8549 May 19 08:21	13° Ⅱ 58'59	
morning rise	8548 Jun 17 09:30	19° Ⅲ 29'34		inferior conj	8549 May 25 05:33	8°Щ33′12	3°11'16
desc. node	8548 Jun 21 13:04	17° Ⅱ 26′07		minimum elong	8549 May 25 07:10	8° Ⅱ 28'32	3°10'52
direct	8548 Jun 24 03:09	17° Ⅲ 05′14		min. Earth dist.	8549 May 27 14:49	5° Ⅱ 49'00	0.64112 AU
morning max el	8548 Jul 08 06:41	25° Ⅱ 06'38	27°55'43	morning rise	8549 May 31 04:52	2° Ⅱ 18'30	
	8548 Jul 12 17:58	0 \circ \odot			8549 Jun 04 08:21	30°₹ ႘	
	8548 Aug 01 20:20	$0^{\circ}\Omega$		direct	8549 Jun 06 21:57	29° 8 37'11	
morning set	8548 Aug 11 00:08	17° Ω 29'56		desc. node	8549 Jun 08 10:05	29° 8 44'32	
asc. node	8548 Aug 13 21:12	23° Ω 28'43			8549 Jun 09 14:19	0°Щ	
max. Earth dist.	8548 Aug 16 13:30		1.32073 AU	morning max el	8549 Jun 20 16:03	7° ∏ 37'34	27°34'03
	8548 Aug 16 22:11	0° m			8549 Jul 07 21:33	0° ©	
	0540 4 40 40 41	207 27112	0045104		8549 Jul 25 02:31	0°N	
superior conj	8548 Aug 18 12:11	3°Mp27'12		morning set	8549 Jul 25 17:24	1° Ω 13'09	1 22070 AII
minimum elong	8548 Aug 18 10:18	3°Mp16'55	0°45'03	max. Earth dist. asc. node	8549 Jul 30 13:42 8549 Jul 31 18:09	11° Ω 04'32 13° Ω 33'58	1.32970 AU
evening rise	8548 Aug 25 07:43 8548 Aug 30 23:47	18° Mp 20′25 0° <u> </u>		asc. node	8349 Jul 31 18.09	13 6633 36	
desc. node	8548 Sep 17 11:54	0 ≗ 26° £ 47'38		superior conj	8549 Aug 02 17:54	17° Ω 47'58	0°20'02
evening max el	8548 Sep 19 09:36	28° £ 43'45	24°23'11	minimum elong	8549 Aug 02 17:54 8549 Aug 02 16:56	17° Ω 47'38	0°19'41
evening max er	8548 Sep 20 18:48	0°M	24 23 11	minimum ciong	8549 Aug 08 09:41	0°m	0 15 41
retrograde	8548 Oct 03 03:45	5°M37'56		evening rise	8549 Aug 09 19:12	2° Mp 59'03	
evening set	8548 Oct 08 06:05	4°M40'29		evening rise	8549 Aug 24 12:44	0° ⊽	
min. Earth dist.	8548 Oct 13 20:29	1°M49'41	0.56422 AU	evening max el	8549 Aug 31 21:00	8° £ 55'01	22°43'40
inferior conj	8548 Oct 16 08:35	0°M15'39	-5°34'39	desc. node	8549 Sep 04 09:00	11° ≏ 54'36	
minimum elong	8548 Oct 16 10:26	0°M12'43	5°34'29	retrograde	8549 Sep 14 01:01	15° ≏ 29'24	
_	8548 Oct 16 18:33	30° ₹ Ω		evening set	8549 Sep 17 15:00	15° ≏ 01'14	
morning rise	8548 Oct 24 16:55	26° ≙ 14'08		min. Earth dist.	8549 Sep 25 04:45	11° ≏ 37'57	0.55127 AU
direct	8548 Oct 27 08:08	25° ჲ 55'35		inferior conj	8549 Sep 26 11:11	10° ჲ 54'32	-5°21'29
	8548 Nov 05 12:16	0° M		minimum elong	8549 Sep 26 05:27	11° ≏ 02'44	5°20'44
morning max el	8548 Nov 06 02:18	0°M32'17	19°38'39	morning rise	8549 Oct 04 21:53	7° ჲ 06'13	
asc. node	8548 Nov 09 20:53	4°M46'24		direct	8549 Oct 08 01:19	6° ≏ 43'30	
morning set	8548 Nov 23 14:38	28°M43'01		morning max el	8549 Oct 19 09:08	12° ≏ 01'52	20°59'15
	8548 Nov 24 05:54	0°⊀		asc. node	8549 Oct 27 17:51	22° △ 32'13	
	0540 D 01 12 15	1.40 70.6150	1005150		8549 Nov 01 03:11	0°M	
superior conj	8548 Dec 01 12:17	14° 🗷 36'50		morning set	8549 Nov 07 22:43	13°M25'56	
minimum elong max. Earth dist.	8548 Dec 01 14:56 8548 Dec 07 16:37	14° ₹ 49'55 26° ₹ 27'07		superior conj	8549 Nov 15 07:28	28°M46'54	1027114
max. Earth dist.	8548 Dec 09 15:05	20 メ ・2707 0°る	1.37021 AU	minimum elong	8549 Nov 15 07.28 8549 Nov 15 08:54	28°M54'12	1°37'14 1°37'20
evening rise	8548 Dec 11 10:05	3° ರ 12'51		minimum ciong	8549 Nov 15 21:43	0° x ⁷	1 37 20
desc. node	8548 Dec 14 10:47	8° る 29'51		max. Earth dist.	8549 Nov 20 01:45	8° ⊀ 22'26	1.35614 AU
	8548 Dec 27 23:57	0° ≈		evening rise	8549 Nov 24 02:18	16° ₹ 05'16	
evening max el	8549 Jan 16 00:13	24° ≈ 00′19	25°18'29	desc. node	8549 Dec 01 07:48	28° ₹ 58'45	
	8549 Jan 24 00:02	0°)			8549 Dec 01 22:17	ರ°0	
retrograde	8549 Jan 28 02:08	0°) 58′52			8549 Dec 22 12:00	0° ≈	
	8549 Jan 31 20:12	30° R ≈		evening max el	8549 Dec 29 13:20	7° ≈ 45'54	26°23'02
evening set	8549 Feb 02 21:39	28° ≈ 34'31		retrograde	8550 Jan 11 09:48	15° ≈ 01'01	
asc. node	8549 Feb 05 20:03	25° ≈ 32'51		evening set	8550 Jan 17 17:32	12° ≈ 27'56	
min. Earth dist.	8549 Feb 07 07:45	23° ≈ 41'49	0.67572 AU	min. Earth dist.	8550 Jan 21 21:09	8° ≈ 09'55	0.66556 AU
inferior conj	8549 Feb 08 13:09	22°≈06'38	0°53'02	inferior conj	8550 Jan 23 14:09	6°≈05'28	
minimum elong	8549 Feb 08 11:53	22°≈10'41	0°52'40	minimum elong	8550 Jan 23 14:13	6°≈05'17	0°02'17
morning rise	8549 Feb 14 02:28	16°≈12'03		transit middle	8550 Jan 23 14:13	6°≈05'17	0°02'17
direct	8549 Feb 17 14:07	15°≈02'13	10010155	transit begin	8550 Jan 23 11:22	6°≈13'59	
morning max el	8549 Feb 24 15:46 8549 Mar 05 11:03	18°≈56'30 0°) €	19°19'55	transit end asc. node	8550 Jan 23 17:04 8550 Jan 23 17:07	5°≈56'36 5°≈56'27	
greatest brilliancy	8549 Mar 09 14:48	6°) (04'48	-0.7m	morning rise	8550 Jan 29 11:44	0°≈20'52	
desc. node	8549 Mar 12 10:24	10° H 19'06	V. / III		8550 Jan 30 04:17	0 ≈2032 30°Rる	
morning set	8549 Mar 20 22:05	23° X 19'20		direct	8550 Feb 01 12:34	29°る28'57	
	8549 Mar 25 05:37	0°Υ			8550 Feb 03 22:08	0° ≈	
		•					

morning max el	8550 Feb 08 02:49	3°≈02'28	18°32'30	morning max el	8551 Jan 22 18:28	17° る 08'35	10001145
morning max ci	8550 Feb 26 21:48	0° \	18 32 30	morning max cr	8551 Feb 01 05:42	0°≈	18 01 43
desc. node	8550 Feb 27 07:19	0° X 37'39		morning set	8551 Feb 09 18:02	0 ∞ 13°≈52'57	
morning set	8550 Feb 28 17:20	2° H 52'08		desc. node	8551 Feb 14 04:15	21°≈08'34	
morning set	0330100 20 17.20	2 /(3200		desc. node	8551 Feb 19 15:34	0°) €	
superior conj	8550 Mar 16 18:35	28° ₩ 05'50	-1°46'20		8551110 19 15.54	0 /	
minimum elong	8550 Mar 16 18:33 8550 Mar 16 09:11	28 X 03 30		superior conj	8551 Feb 24 03:20	7° ₩ 09'31	1008/01
max. Earth dist.	8550 Mar 16 17:28	28° H 01'27	1.45510 AU	minimum elong	8551 Feb 23 19:35	6° ₩ 38'48	
max. Latin dist.	8550 Mar 17 23:45	0° Υ	1.43310 AO	max. Earth dist.	8551 Feb 27 12:49		1.45345 AU
evening rise	8550 Apr 01 11:20	22° Υ 49'05		max. Larm dist.	8551 Mar 10 18:33	0°Υ	1.43545 710
evening rise	8550 Apr 05 23:48	0°8		evening rise	8551 Mar 12 07:18	2° Υ 21'53	
greatest brilliancy	8550 Apr 10 07:32	6° 8 49'51	-0.8m	greatest brilliancy	8551 Mar 25 22:13	23° Y 07'47	-0.7m
asc. node	8550 Apr 21 15:56	23° 8 05'17	0.0111	greatest offinalley	8551 Mar 30 16:37	0°8	0.7111
evening max el	8550 Apr 23 08:54	24° 8 56'51	18°51'53	evening max el	8551 Apr 06 15:21	8° 8 34'30	19°40'31
retrograde	8550 Apr 30 02:12	28° 8 40'39	10 31 33	asc. node	8551 Apr 08 13:02	10° 8 20'11	17 40 51
evening set	8550 May 03 10:16	27° 8 36'28		retrograde	8551 Apr 13 23:52	12° 8 47'10	
inferior conj	8550 May 08 23:56	21° 8 54'25	3°22'25	evening set	8551 Apr 17 16:10	11° 8 28'06	
minimum elong	8550 May 09 00:13	21° 8 53'30	3°22'15	inferior conj	8551 Apr 23 01:25	5° 8 31'32	3°19'05
min. Earth dist.	8550 May 10 17:56	19° 8 42'59	0.65837 AU	minimum elong	8551 Apr 23 00:33	5° 8 34'26	3°18'55
morning rise	8550 May 14 13:35	15° 8 36'02	0.03037 710	min. Earth dist.	8551 Apr 24 04:35	4° 8 01'15	0.67139 AU
direct	8550 May 21 00:16	12° 8 49'31		mm. Larm dist.	8551 Apr 27 13:14	30°RΥ	0.07137710
desc. node	8550 May 26 07:05	14° 8 20'36		morning rise	8551 Apr 28 08:35	29°Υ13'28	
morning max el	8550 Jun 03 02:41	20° 8 36'15	26°41'15	direct	8551 May 04 08:47	26° Υ 32'56	
morning max cr	8550 Jun 11 04:46	0°II	20 41 13	uncet	8551 May 12 06:47	0° 8	
	8550 Jul 01 00:48	0°e 0 π		desc. node	8551 May 12 00:47 8551 May 13 04:03	0° 8 43'03	
morning set	8550 Jul 08 23:41	14°9522'34		morning max el	8551 May 16 12:27	3° 8 50'05	25°26'15
max. Earth dist.	8550 Jul 13 03:43	22°928'34	1.34351 AU	morning max er	8551 Jun 05 11:56	0°II	23 20 13
max. Latin dist.	8550 Jul 16 20:49	0°Ω	1.54551 AO	morning set	8551 Jun 21 14:55	26° Ⅱ 47'00	
	0550 341 10 20.47	0 00		morning set	8551 Jun 23 09:11	0°95	
superior conj	8550 Jul 17 17:31	1° Ω 47'03	-0°09'03	max. Earth dist.	8551 Jun 25 06:56	3°533'02	1.36182 AU
minimum elong	8550 Jul 17 18:01	1° Ω 49'40	0°09'07	max. Larm dist.	0331 Jun 23 00.30	3 33 02	1.50102 710
behind sun begin	8550 Jul 17 13:13	1° Ω 24'45	0 0 0 0 7	superior conj	8551 Jul 01 08:16	15° © 17'23	-0°40'29
behind sun end	8550 Jul 17 22:50	2°Ω14'37		minimum elong	8551 Jul 01 10:43	15° 5 29'35	0°40'13
asc. node	8550 Jul 18 15:07	3° Ω 39'28		asc. node	8551 Jul 05 12:07	23°541'29	0 10 15
evening rise	8550 Jul 25 04:56	17° Ω 29'07		asc. node	8551 Jul 08 14:13	0°Ω	
evening rise	8550 Jul 31 10:54	0° mp		evening rise	8551 Jul 09 10:45	1° Ω 44'33	
evening max el	8550 Aug 13 15:34		21°10'16	evening rise	8551 Jul 26 12:58	0° m	
desc. node	8550 Aug 22 06:06	24° Mp 47'48	21 1010	evening max el	8551 Jul 26 23:08	0° m/25'40	19°53'35
retrograde	8550 Aug 25 13:58	25° m) 15'02		retrograde	8551 Aug 06 04:54	5° My 28'56	17 33 33
evening set	8550 Aug 27 22:23	25° m/ 02'07		evening set	8551 Aug 08 01:50	5° m 19'33	
inferior conj	8550 Sep 06 03:56	21° m 05'09	-4°12'46	desc. node	8551 Aug 09 03:12	5° Mp 06'22	
minimum elong	8550 Sep 05 18:19	21° mp 18'41		inferior conj	8551 Aug 17 01:06	1° m) 19'02	-2°24'19
min. Earth dist.	8550 Sep 06 13:31	20° m 51'37	0.54670 AU	minimum elong	8551 Aug 17 01:00 8551 Aug 16 18:31	1° m/29'03	
morning rise	8550 Sep 14 14:48	17° Mp 11'28	0.54070710	min. Earth dist.	8551 Aug 19 00:40	0° Mp 06'41	0.55177 AU
direct	8550 Sep 18 09:27	16° Mp 40'45		mm. Earth dist.	8551 Aug 19 05:08	30°RΩ	0.55177710
morning max el	8550 Oct 01 04:13	22° m/45'58	22°37'54	morning rise	8551 Aug 25 09:24	27° Ω 00'11	
morning max or	8550 Oct 07 01:15	0ಂ ರ	22 3/31	direct	8551 Aug 29 22:40	26° Ω 14'41	
asc. node	8550 Oct 14 14:49	11° ≏ 02'23		direct	8551 Sep 09 01:22	0°m	
morning set	8550 Oct 23 09:30	28° ♀ 14'26		morning max el	8551 Sep 12 16:56	3° mp 02'38	24°23'55
morning sec	8550 Oct 24 05:26	0°M		asc. node	8551 Oct 01 11:47	0° ჲ 06'14	2. 25 55
	0330 000 21 03.20	0 110		use. Houe	8551 Oct 01 10:28	0∘ ಹ	
superior conj	8550 Oct 30 10:26	13°ML18'01	1°41'12	morning set	8551 Oct 07 10:26	13° ≏ 03'52	
minimum elong	8550 Oct 30 10:33	13°ML18'37		morning sec	0551 000 07 21.10	13 —03 32	
max. Earth dist.	8550 Nov 02 18:03	20°M16'28	1.33952 AU	superior conj	8551 Oct 14 18:31	28° ≏ 02'20	1°38'43
evening rise	8550 Nov 07 09:08	29°M36'24	1.55752 AU	minimum elong	8551 Oct 14 17:30	27° ⊆ 56'49	1°38'44
Svennig 1150	8550 Nov 07 13:58	29 1163024 0° √ 7		minimum ciong	8551 Oct 14 17:30 8551 Oct 15 16:08	0°M	דד טכ ז
desc. node	8550 Nov 18 04:50	19° × 12'27		max. Earth dist.	8551 Oct 16 18:46	2°M24'07	1.32727 AU
acse. node	8550 Nov 25 00:44	19 × 12 27		evening rise	8551 Oct 10 18:40 8551 Oct 22 03:01	13°M37'17	1.52/2/ AU
evening max el	8550 Dec 12 02:22	0 3 21° る 20'45	27°08'55	Cvening 1150	8551 Oct 30 17:23	13 II63/1/ 0° √ 7	
retrograde	8550 Dec 25 11:42	21 3 2043 28° 3 41'51	41 00 33	desc. node	8551 Nov 05 01:56	0 x · 9° x 04'23	
evening set	8551 Jan 01 05:46	26°る05'50		uese. Houe	8551 Nov 20 05:00	9 x・04 23 0°る	
min. Earth dist.	8551 Jan 01 05:46 8551 Jan 05 03:45	20° ろ 03°30	0.65179 AU	avaning may al	8551 Nov 20 05:00 8551 Nov 24 14:11	0°る 4° る 34'14	27°20'02
	8551 Jan 05 03:45 8551 Jan 07 08:25	19° る 54'42		evening max el	8551 Nov 24 14:11 8551 Dec 08 06:59	4°634°14 11° る 52'51	41 49 04
inferior conj		19°る3442 19°る49'17		retrograde		9° る 21'48	
minimum elong	8551 Jan 07 10:21		1 04 11	evening set	8551 Dec 15 07:47		0.63494 411
asc. node	8551 Jan 10 14:11	16°る32'40		min. Earth dist.	8551 Dec 19 01:32		0.63484 AU
morning rise	8551 Jan 13 16:18	14°る22'30 13°る44'45		inferior conj	8551 Dec 21 17:18	3°る28'18 3°る17'39	
direct	8551 Jan 16 08:12	15 044 43		minimum elong	8551 Dec 21 21:31	5 O1/39	2 11 39

	8551 Dec 25 11:40	30°R ✓		direct	8552 Dec 13 03:41	11° √ 18'48	
aga mada	8551 Dec 28 11:14	28° ₹ 13'17		asc. node		11° 🗷 25'00	
asc. node					8552 Dec 14 08:17		17052150
morning rise	8551 Dec 28 13:09	28° 🖈 11'26		morning max el	8552 Dec 20 03:46	14° ₹ 50'53	17°52'59
direct	8551 Dec 30 22:24	27° ₹ 43'52			8552 Dec 30 14:18	0°る	
	8552 Jan 05 06:06	0°る		morning set	8553 Jan 04 20:40	9° ප 26'16	
morning max el	8552 Jan 06 11:50	1° る 07'31	17°48'17			—	
morning set	8552 Jan 22 21:20	26° る 11'13		superior conj	8553 Jan 15 12:38	28° පි 25'31	0°17'45
	8552 Jan 25 02:24	0° ≈		minimum elong	8553 Jan 15 14:11	28° る 32'14	0°17'40
desc. node	8552 Feb 01 01:12	11° ≈ 47'51			8553 Jan 16 10:36	0° ≈	
				desc. node	8553 Jan 17 22:12	2° ≈ 31'43	
superior conj	8552 Feb 04 07:12	17° ≈ 10'41	-0°23'37	max. Earth dist.	8553 Jan 22 22:07	10° ≈ 51'18	1.42960 AU
minimum elong	8552 Feb 04 04:39	17° ≈ 00′15	0°23'05	evening rise	8553 Jan 29 12:18	21° ≈ 25′09	
max. Earth dist.	8552 Feb 10 07:08	26° ≈ 52'43	1.44464 AU		8553 Feb 04 01:34	0° ℋ	
	8552 Feb 12 06:20	0° ∀			8553 Feb 25 07:15	0 ° Υ	
evening rise	8552 Feb 19 18:30	11°) 41'30		evening max el	8553 Mar 02 12:13	5° Y 55′03	21°57'01
	8552 Mar 02 22:13	0 ° $\mathbf{\Upsilon}$		retrograde	8553 Mar 11 19:56	11° Y 26'20	
evening max el	8552 Mar 19 16:27	22° Y 14'03	20°43'24	asc. node	8553 Mar 12 07:13	11° Y 25'12	
asc. node	8552 Mar 25 10:08	26° Ƴ 31'49		evening set	8553 Mar 16 08:06	9° Ƴ 36'37	
retrograde	8552 Mar 27 22:23	27° Ƴ 03'47		inferior conj	8553 Mar 21 15:43	3° Ƴ 17'13	2°38'43
evening set	8552 Apr 01 00:01	25° Y 29'26		minimum elong	8553 Mar 21 13:32	3° Y 24'48	2°38'11
inferior conj	8552 Apr 06 07:25	19° Y 20'11	3°03'56	min. Earth dist.	8553 Mar 21 16:16	3° Υ 15'17	0.68407 AU
minimum elong	8552 Apr 06 05:41	19° Y 26′07	3°03'36	Time Darwi Gibe.	8553 Mar 24 02:14	30° R ₩	0.00107110
min. Earth dist.	8552 Apr 06 00:41	18° Y 34'21	0.67996 AU	morning rise	8553 Mar 26 18:49	27°) 05'49	
morning rise	8552 Apr 11 11:08	13° Υ 04'45	0.07990 AU	direct	8553 Mar 31 16:07	25°\(\frac{1}{100}\)	
	8552 Apr 16 22:25	13 γ 04 43 10° γ 39'02		direct		25 χου 18 0° Υ	
direct			22050102		8553 Apr 09 15:10	0° Υ 42'00	22020120
morning max el	8552 Apr 27 21:27	17° Y 12'01	23°59'03	morning max el	8553 Apr 10 08:14		22°29'38
desc. node	8552 Apr 29 01:02	18° Y 23'37		desc. node	8553 Apr 15 22:00	7° Y 00'51	
	8552 May 08 12:52	0.8			8553 May 02 09:22	0°8	
	8552 May 28 12:46	0°II		morning set	8553 May 14 03:06	18° 8 24'19	
morning set	8552 Jun 02 09:47	8° Ⅱ 11'40		max. Earth dist.	8553 May 19 01:22	26° 8 36'15	1.40599 AU
max. Earth dist.	8552 Jun 06 03:42	14° Ⅱ 44'46	1.38346 AU		8553 May 21 01:04	$\Pi^{\circ}0$	
		_				_	
superior conj	8552 Jun 13 10:38	28° Ⅱ 09'19		superior conj	8553 May 26 20:20	10° Ⅱ 13'03	
minimum elong	8552 Jun 13 15:09	28° Ⅱ 30'47	1°11'54	minimum elong	8553 May 27 02:12	10° Ⅲ 39'25	1°41'11
	8552 Jun 14 09:51	0 \circ		evening rise	8553 Jun 05 23:22	28° Ⅱ 59'36	
asc. node	8552 Jun 21 09:08	13° © 35'17			8553 Jun 06 12:12	0	
evening rise	8552 Jun 22 09:58	15° © 37'23		asc. node	8553 Jun 08 06:11	3° © 16'48	
	8552 Jun 30 01:16	$0^{\circ}\Omega$		evening max el	8553 Jun 22 00:58	24°5643'41	18°21'42
evening max el	8552 Jul 08 19:20	12° Ω 15′21	18°57'16	retrograde	8553 Jun 29 10:41	28° 5 26'14	
retrograde	8552 Jul 17 10:07	16° Ω 31'27		evening set	8553 Jul 01 16:04	28° © 07'01	
evening set	8552 Jul 19 08:51	16° Ω 19'14		inferior conj	8553 Jul 09 02:16	23° © 30'25	1°06'21
desc. node	8552 Jul 26 00:18	13° Ω 09'21		minimum elong	8553 Jul 09 04:25	23° © 25'57	1°05'26
inferior conj	8552 Jul 27 14:50	12° Ω 02'55	-0°29'25	min. Earth dist.	8553 Jul 12 11:29	20°944'17	0.58523 AU
minimum elong	8552 Jul 27 13:36	12° Ω 05'06	0°29'05	desc. node	8553 Jul 12 21:22	20°©25'12	
min. Earth dist.	8552 Jul 30 15:15	9° Ω 56'31	0.56552 AU	morning rise	8553 Jul 16 13:27	18° © 00'20	
morning rise	8552 Aug 04 15:08	7° Ω 07'51		direct	8553 Jul 22 16:24	16° © 21'14	
direct	8552 Aug 10 00:32	5° £ 58'59		morning max el	8553 Aug 06 01:45	24°905'06	27°14'15
morning max el	8552 Aug 24 06:24	13° Ω 19'36	26°01'28		8553 Aug 11 10:41	0°N	
morning mair or	8552 Sep 06 09:21	0°m)	20 0120		8553 Aug 30 13:12	0° m	
asc. node	8552 Sep 17 08:45	19° m)34'18		asc. node	8553 Sep 04 05:44	9° m) 19'50	
morning set	8552 Sep 21 08:19	27° m) 48'37		morning set	8553 Sep 05 17:01	12° m 24'04	
morning set	8552 Sep 22 08:51	27 m/4037 0° Ω		morning set	6555 Sep 05 17.01	12 11/2404	
	6332 Sep 22 06.31	o –		superior conj	8553 Sep 12 17:14	27° m 41'19	1°16'49
	0550 0 20 05-24	120 0 52100	1°30'25	minimum elong	•	27° m/29'00	1°16'29
superior conj	8552 Sep 28 05:24	12° ♀ 52'00			8553 Sep 12 15:01		
minimum elong	8552 Sep 28 03:36	12° £ 41'58	1°30'16	max. Earth dist.	8553 Sep 12 11:58	27° Mp 12'06 0° <u>₽</u>	1.31635 AU
max. Earth dist.	8552 Sep 29 01:53	14° £ 45'12	1.31955 AU		8553 Sep 13 18:12		
evening rise	8552 Oct 05 04:48	27° £ 58′21		evening rise	8553 Sep 19 11:57	12° £ 32'31	
	8552 Oct 06 04:14	0°M		1 .	8553 Sep 28 07:09	0°M	
desc. node	8552 Oct 21 23:01	28°M24'52		desc. node	8553 Oct 08 20:07	17°M01'35	26022121
	8552 Oct 23 00:10	0° ∡ ¹		evening max el	8553 Oct 18 23:38	29°M02'46	26°32'31
evening max el	8552 Nov 05 22:14	17° ∡ 12'11	27°17'46		8553 Oct 20 00:34	0° ∡ ¹	
retrograde	8552 Nov 19 18:34	24° ≯ 24'39		retrograde	8553 Nov 01 21:33	6° ∡ 09'29	
evening set	8552 Nov 26 20:10	22° ҂ 08'05		evening set	8553 Nov 08 14:39	4° ҂ 17'50	
min. Earth dist.	8552 Nov 30 12:48	19° ∡ 19'59	0.61531 AU	min. Earth dist.	8553 Nov 12 13:12	1° ₹ 42'49	0.59441 AU
inferior conj	8552 Dec 03 13:40	16° ∡ ³37'48	-3°24'11		8553 Nov 14 18:26	30°RM	
minimum elong	8552 Dec 03 20:05	16° ≯ 23′28	3°21'48	inferior conj	8553 Nov 15 18:00	29°M13'45	-4°30'28
morning rise	8552 Dec 10 22:14	11° х 39'46		minimum elong	8553 Nov 16 01:22	28°M59'23	4°28'27

morning rise	8553 Nov 23 14:29	24°M37'47		morning rise	8554 Nov 05 08:30	6°M54'19	
direct	8553 Nov 25 19:47	24 IIL3/4/ 24°M20'11		direct	8554 Nov 07 18:18	6°M37'09	
							10002127
asc. node	8553 Dec 01 05:20	26°M10'33	10017100	morning max el	8554 Nov 16 17:16	10°M54'01	19°02'27
morning max el	8553 Dec 03 14:48	28°M09'42	18°17'09	asc. node	8554 Nov 18 02:21	12°M18'59	
	8553 Dec 05 08:04	0° ⊼ ¹			8554 Nov 29 10:25	0° 🗷	
morning set	8553 Dec 19 10:06	23° ₹ 20'15		morning set	8554 Dec 03 09:14	7° ∡ ¹40'45	
	8553 Dec 22 22:19	0°₹			055475 44 45 06	240 7000	1015150
	0552 D 20 17 24	100=47122	0°51'19	superior conj	8554 Dec 11 17:06	24° ₹ 02'26 24° ₹ 17'37	1°15'50
superior conj	8553 Dec 28 17:34	10°る47'23		minimum elong	8554 Dec 11 20:16		1-1540
minimum elong	8553 Dec 28 20:49	11°る02'10	0°51'03	E d F	8554 Dec 14 20:42	0°る	1 20052 411
desc. node	8554 Jan 04 19:10	23°る16'21	1 41000 411	max. Earth dist.	8554 Dec 18 13:52		1.38852 AU
max. Earth dist.	8554 Jan 05 07:58	24° る 10'58	1.41009 AU	evening rise	8554 Dec 22 09:37	13° る 30'27	
	8554 Jan 08 19:11	0° ≈		desc. node	8554 Dec 22 16:09	13° る 58'30	
evening rise	8554 Jan 09 23:57	1°≈58'14			8555 Jan 01 11:53	0° ≈	
	8554 Jan 28 10:39	0° ∀			8555 Jan 23 11:53	0° ∀	
evening max el	8554 Feb 13 03:48	19°) (37'55	23°16'32	evening max el	8555 Jan 26 17:18	3°) €24'16	24°35'46
retrograde	8554 Feb 23 15:04	25°) 49'42		retrograde	8555 Feb 07 06:31	10° 米 09′18	
asc. node	8554 Feb 27 04:20	24°) (47'34		evening set	8555 Feb 12 18:37	7° ∺ 51'38	
evening set	8554 Feb 28 14:48	23°) 45′16		asc. node	8555 Feb 14 01:26	6°) 38'48	
min. Earth dist.	8554 Mar 05 13:01	17° ¥ 58′07	0.68392 AU	min. Earth dist.	8555 Feb 17 08:46	2°) 38'49	0.67980 AU
inferior conj	8554 Mar 06 00:22	17° ∺ 18'58	2°04'22	inferior conj	8555 Feb 18 07:35	1° ∺ 22'43	1°21'30
minimum elong	8554 Mar 05 22:10	17° ∺ 26'35	2°03'43	minimum elong	8555 Feb 18 05:50	1° ¥ 28'35	1°20'56
morning rise	8554 Mar 11 05:29	11° ∺ 12'50			8555 Feb 19 08:38	30°R ≈	
direct	8554 Mar 15 12:55	9° ∺ 29'38		morning rise	8555 Feb 23 17:12	25° ≈ 23'13	
morning max el	8554 Mar 24 00:10	14°) €22'12	21°06'09	direct	8555 Feb 27 11:39	24° ≈ 01'50	
desc. node	8554 Apr 02 18:56	26° ∺ 18'41		morning max el	8555 Mar 06 23:35		19°54'24
	8554 Apr 05 10:36	0 ° Υ			8555 Mar 08 15:44	0° ℋ	
morning set	8554 Apr 23 17:26	27° Y 23'40		desc. node	8555 Mar 20 15:51	16°) €06'12	
	8554 Apr 25 09:08	0°B			8555 Mar 29 21:57	0 ° Υ	
max. Earth dist.	8554 May 01 04:37	9° 8 20'15	1.42658 AU	morning set	8555 Apr 02 15:29	5° Ƴ 43'14	
				max. Earth dist.	8555 Apr 13 14:44	22° Y 52'49	1.44275 AU
superior conj	8554 May 08 08:37	21° 8 17'29	-2°03'36		8555 Apr 18 01:11	9° 8	
minimum elong	8554 May 08 13:28	21° 8 38'10	2°03'27				
	8554 May 13 09:21	Π $\circ 0$		superior conj	8555 Apr 18 20:17	1° 8 17'27	-2°12'04
evening rise	8554 May 19 22:42	11° Ⅱ 40'34		minimum elong	8555 Apr 18 20:10	1° 8 16'57	2°12'11
asc. node	8554 May 26 03:12	22° Ⅱ 40′28		evening rise	8555 May 02 03:18	23° 8 29'45	
	8554 May 30 13:44	0 \circ \odot			8555 May 05 22:40	Π $^{\circ}0$	
evening max el	8554 Jun 05 12:13	7° ॐ 41'11	18°06'07	asc. node	8555 May 13 00:15	11° Ⅱ 40′01	
retrograde	8554 Jun 12 04:24	11° © 05'43		evening max el	8555 May 20 01:36	20° ∏ 58'54	18°09'38
evening set	8554 Jun 14 17:19	10° © 36'14		retrograde	8555 May 26 10:51	24° Ⅱ 20′07	
inferior conj	8554 Jun 21 10:04	5° © 39'37	2°14'30	evening set	8555 May 29 07:14	23° Ⅲ 38′05	
minimum elong	8554 Jun 21 13:06	5° © 32'24	2°13'29	inferior conj	8555 Jun 04 10:26	18° Ⅱ 22'47	2°56'46
min. Earth dist.	8554 Jun 24 15:26	2° © 36'06	0.60758 AU	minimum elong	8555 Jun 04 12:46	18° Ⅱ 16′28	2°56'09
	8554 Jun 27 20:49	30° Ŗ Ⅱ		min. Earth dist.	8555 Jun 07 04:13	15° Ⅱ 25'39	0.62957 AU
morning rise	8554 Jun 28 06:17	29° ∏ 44'12		morning rise	8555 Jun 10 16:42	12° Ⅱ 12'48	
desc. node	8554 Jun 29 18:25	28° Ⅲ 51′46		desc. node	8555 Jun 16 15:28	9° Ⅱ 41'36	
direct	8554 Jul 04 20:42	27° Ⅲ 34′23		direct	8555 Jun 17 11:02	9° Ⅱ 39'28	
	8554 Jul 12 08:17	0 \circ \odot		morning max el	8555 Jul 01 11:16	17° Ⅱ 42'33	27°50'41
morning max el	8554 Jul 19 03:58	5° © 32'54	27°51'38		8555 Jul 11 17:25	0 \circ \odot	
	8554 Aug 06 11:08	$\mathfrak{O}^{\circ}\mathfrak{O}$			8555 Jul 30 06:48	$\mathfrak{O}^{\circ} \mathfrak{O}$	
morning set	8554 Aug 20 21:31	26° Ω 44'55		morning set	8555 Aug 04 19:37	10° Ω 44'04	
asc. node	8554 Aug 22 02:41	29° Ω 17'06		asc. node	8555 Aug 08 23:37	19° Ω 20'47	
	8554 Aug 22 10:50	0° m ∕		max. Earth dist.	8555 Aug 10 01:32	21° Ω 38′28	1.32389 AU
max. Earth dist.	8554 Aug 26 21:11	9° m 33'57	1.31772 AU				
				superior conj	8555 Aug 12 12:25	26° Ω 55'46	0°35'12
superior conj	8554 Aug 28 04:12	12° Mp 24'40	0°58'16	minimum elong	8555 Aug 12 10:51	26° Ω 47'18	0°34'46
minimum elong	8554 Aug 28 02:03	12° m 12'48	0°57'50		8555 Aug 13 22:15	O° Mp	
evening rise	8554 Sep 03 22:17	27° m 13'31		evening rise	8555 Aug 19 09:53	11° m 54'48	
	8554 Sep 05 05:36	0∘ ⊽			8555 Aug 28 12:38	0∘ ⊽	
	8554 Sep 22 04:10	0° M.		evening max el	8555 Sep 12 04:42	20° ≏ 24'39	23°41'12
desc. node	8554 Sep 25 17:12	4° ™ 37′20		desc. node	8555 Sep 12 14:18	20° ≏ 47'34	
evening max el	8554 Sep 30 16:59	10°M03'02	25°16'41	retrograde	8555 Sep 25 18:57	27° ≏ 12'38	
retrograde	8554 Oct 14 14:31	17° M 03'55		evening set	8555 Sep 30 05:48	26° ≏ 29'18	
evening set	8554 Oct 20 10:29	15°M45'59		min. Earth dist.	8555 Oct 06 14:58	23° ≏ 26′20	0.55781 AU
min. Earth dist.	8554 Oct 25 04:48	13°M06'15	0.57425 AU	inferior conj	8555 Oct 08 16:03	22° ≏ 12'55	-5°35'43
inferior conj	8554 Oct 28 03:10	11° M 07'28	-5°20'21	minimum elong	8555 Oct 08 14:43	22° ≏ 14'54	5°35'37
minimum elong	8554 Oct 28 08:20	10°M58'43	5°19'34	morning rise	8555 Oct 17 01:43	18° ≏ 18'19	
minimum ciong							

direct	8555 Oct 19 21:30	17° £ 58'26		minimum elong	8556 Sep 17 04:46	2° ≏ 48'47	1°57'16
morning max el	8555 Oct 30 07:43	22° £ 52'30	20°10'14	minimum clong	8556 Sep 22 14:22	2 ==40 47 30°R, MD	4 37 10
•		22 ≗ 32 30 29° £ 33'40	20 10 14	morning rise	-	30 หูแม 28°Mg49'08	
asc. node	8555 Nov 04 23:21			morning rise	8556 Sep 25 23:57		
	8555 Nov 05 06:44	0°M		direct	8556 Sep 29 09:51	28° m/23'21	
morning set	8555 Nov 17 14:47	22°M17'34			8556 Oct 05 19:16	0∘ 亚	21020110
	8555 Nov 21 08:52	0°⊀		morning max el	8556 Oct 11 09:02	4° ₽ 01'26	21°39'18
				asc. node	8556 Oct 21 20:19	17° ≏ 40'08	
superior conj	8555 Nov 25 06:17	7° ₹ 55'35	1°31'42		8556 Oct 28 13:27	0°M,	
minimum elong	8555 Nov 25 08:27	8° ₹ 06′28	1°31'43	morning set	8556 Nov 01 00:17	7° M ∙03'51	
max. Earth dist.	8555 Nov 30 20:18	18° ∡ *51'44	1.36737 AU				
evening rise	8555 Dec 04 15:44	25° ∡ 56′26		superior conj	8556 Nov 08 05:10	22°M15'44	1°39'44
	8555 Dec 06 22:09	0°ಕ		minimum elong	8556 Nov 08 06:01		1°39'52
desc. node	8555 Dec 09 13:09	4° る 33'32			8556 Nov 11 23:24	0° ∡ ¹	
	8555 Dec 26 00:16	0° ≈		max. Earth dist.	8556 Nov 12 08:25	0° ∡ ¹45'26	1.34869 AU
evening max el	8556 Jan 09 06:28	17° ≈ 12'06	25°47'49	evening rise	8556 Nov 16 14:41	9° ∡ '06'51	
retrograde	8556 Jan 21 17:12	24°≈19′10		desc. node	8556 Nov 25 10:11	24° ∡ ′56′49	
evening set	8556 Jan 27 17:53	21° ≈ 50′51			8556 Nov 28 11:38	0° ප	
asc. node	8556 Jan 31 22:32	17° ≈ 20′59			8556 Dec 20 21:27	0° ≈	
min. Earth dist.	8556 Feb 01 01:13	17° ≈ 12'37	0.67183 AU	evening max el	8556 Dec 21 19:52	0° ≈ 55'06	26°45'15
inferior conj	8556 Feb 02 11:26	15° ≈ 24'29	0°30'27	retrograde	8557 Jan 03 22:18	8° ≈ 12'59	
minimum elong	8556 Feb 02 10:40	15° ≈ 26'54	0°30'16	evening set	8557 Jan 10 10:45	5° ≈ 38'07	
morning rise	8556 Feb 08 03:58	9° ≈ 33'34		min. Earth dist.	8557 Jan 14 12:00	1° ≈ 34'34	0.66018 AU
direct	8556 Feb 11 10:49	8° ≈ 31'43			8557 Jan 15 20:18	30° Ŗ ⋜	
morning max el	8556 Feb 18 06:41	12° ≈ 15'54	18°57'40	inferior conj	8557 Jan 16 09:52	29° る 19'57	-0°28'16
	8556 Mar 02 10:57	0°) €		minimum elong	8557 Jan 16 10:40	29° る 17'37	0°27'45
desc. node	8556 Mar 06 12:46	6° ₩ 15'11		asc. node	8557 Jan 17 19:37	27° る 42'35	
morning set	8556 Mar 11 20:59	14°) 32′27		morning rise	8557 Jan 22 11:35	23° る 40'07	
C	8556 Mar 21 19:01	$_{0}$ $^{\circ}$ Υ		direct	8557 Jan 25 08:28	22° る 54'32	
max. Earth dist.	8556 Mar 26 06:50	7° Ƴ 02'08	1.45266 AU	morning max el	8557 Jan 31 19:57	26° る 22'24	18°17'18
				C	8557 Feb 04 00:22	0° ≈	
superior conj	8556 Mar 28 10:03	10° Y 23′29	-2°01'33	morning set	8557 Feb 20 04:33	24° ≈ 42'41	
minimum elong	8556 Mar 28 02:55	9°Υ55'25		desc. node	8557 Feb 21 09:41	26° ≈ 39'35	
	8556 Apr 09 16:55	0°8			8557 Feb 23 11:43	0° ∀	
evening rise	8556 Apr 12 09:09	4° 8 20'35			000,100 20 11.15	٠,٨	
asc. node	8556 Apr 28 21:19	0° I 107'37		superior conj	8557 Mar 07 14:55	19° ¥ 12'07	-1°31'30
use. Houe	8556 Apr 28 19:01	0° I		minimum elong	8557 Mar 07 05:24	18° ¥ 34'52	
evening max el	8556 May 02 14:09	4° Ⅱ 29'11	18°31'29	max. Earth dist.	8557 Mar 09 02:28		1.45533 AU
retrograde	8556 May 09 01:56	8° Ⅱ 00'51	10 31 2)	max. Earth dist.	8557 Mar 14 12:36	0° Υ	1.43333710
evening set	8556 May 12 05:43	7° Ⅱ 04′52		evening rise	8557 Mar 23 15:52	14° Υ 16'44	
inferior conj	8556 May 17 23:17	1° П 32'12	3°17'57	evening rise	8557 Apr 02 18:00	0°8	
minimum elong	8556 May 18 00:21	1° I I29'02		greatest brilliancy	8557 Apr 02 16:50	1° 8 27'31	-0.8m
minimum clong	8556 May 19 06:01	30°R ∀	3 1/41	asc. node	8557 Apr 15 18:25	17° 8 52'35	-0.8111
min. Earth dist.	8556 May 20 02:10		0.64894 AU	evening max el	-		
morning rise	8556 May 23 18:09	25° 8 15'37	0.04694 AU		9557 Apr 15 72-10	100 20507	1001010
direct	6550 May 25 16.09			Č	8557 Apr 15 23:19	18° 8 05'07	19°10'42
	9556 May 20, 00:19			retrograde	8557 Apr 22 22:03	21° 8 59'41	19°10'42
	8556 May 30 09:18	22° 8 30'26		retrograde evening set	8557 Apr 22 22:03 8557 Apr 26 09:37	21° 8 59'41 20° 8 49'01	
desc. node	8556 Jun 02 12:28	22° 8 30'26 23° 8 02'26		retrograde evening set inferior conj	8557 Apr 22 22:03 8557 Apr 26 09:37 8557 May 01 21:02	21° 8 59'41 20° 8 49'01 15° 8 00'30	3°22'34
	8556 Jun 02 12:28 8556 Jun 12 10:42	22°\dagge\da	27914157	retrograde evening set inferior conj minimum elong	8557 Apr 22 22:03 8557 Apr 26 09:37 8557 May 01 21:02 8557 May 01 20:48	21°\delta59'41 20°\delta49'01 15°\delta00'30 15°\delta01'15	3°22'34 3°22'26
desc. node morning max el	8556 Jun 02 12:28 8556 Jun 12 10:42 8556 Jun 12 21:13	22°\dagger 30'26 23°\dagger 02'26 0°\pi 0°\pi 26'20	27°14'56	retrograde evening set inferior conj minimum elong min. Earth dist.	8557 Apr 22 22:03 8557 Apr 26 09:37 8557 May 01 21:02 8557 May 01 20:48 8557 May 03 08:32	21°\d59'\d1 20°\d49'\01 15°\d00'\30 15°\d01'\15 13°\d06'\13	3°22'34
morning max el	8556 Jun 02 12:28 8556 Jun 12 10:42 8556 Jun 12 21:13 8556 Jul 04 17:51	22°\dagger 30'26 23°\dagger 302'26 0°\pi 0°\pi 26'20 0°\sigma	27°14'56	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8557 Apr 22 22:03 8557 Apr 26 09:37 8557 May 01 21:02 8557 May 01 20:48 8557 May 03 08:32 8557 May 07 07:34	21°\delta59'41 20°\delta49'01 15°\delta00'30 15°\delta01'15 13°\delta06'13 8°\delta42'07	3°22'34 3°22'26
	8556 Jun 02 12:28 8556 Jun 12 10:42 8556 Jun 12 21:13 8556 Jul 04 17:51 8556 Jul 18 08:39	22°830'26 23°802'26 0°II 0°II26'20 0°S 24°S14'39	27°14'56	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8557 Apr 22 22:03 8557 Apr 26 09:37 8557 May 01 21:02 8557 May 01 20:48 8557 May 03 08:32 8557 May 07 07:34 8557 May 13 14:11	21°\delta59'41 20°\delta49'01 15°\delta00'30 15°\delta01'15 13°\delta06'13 8°\delta2'07 5°\delta57'11	3°22'34 3°22'26
morning max el	8556 Jun 02 12:28 8556 Jun 12 10:42 8556 Jun 12 21:13 8556 Jul 04 17:51 8556 Jul 18 08:39 8556 Jul 21 06:29	22°♂30'26 23°♂02'26 0°Ⅲ 0°Ⅲ26'20 0°☞ 24°☞14'39 0°Ω		retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	8557 Apr 22 22:03 8557 Apr 26 09:37 8557 May 01 21:02 8557 May 01 20:48 8557 May 03 08:32 8557 May 07 07:34 8557 May 13 14:11 8557 May 20 09:28	21°\delta59'41 20°\delta49'01 15°\delta00'30 15°\delta01'15 13°\delta06'13 8°\delta2'07 5°\delta57'11 8°\delta27'32	3°22'34 3°22'26 0.66443 AU
morning max el morning set max. Earth dist.	8556 Jun 02 12:28 8556 Jun 12 10:42 8556 Jun 12 21:13 8556 Jul 04 17:51 8556 Jul 18 08:39 8556 Jul 21 06:29 8556 Jul 22 21:37	22°830'26 23°802'26 0°Π 0°Π26'20 0°S 24°S14'39 0°Ω 3°Ω18'41	27°14'56 1.33498 AU	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8557 Apr 22 22:03 8557 Apr 26 09:37 8557 May 01 21:02 8557 May 01 20:48 8557 May 03 08:32 8557 May 07 07:34 8557 May 13 14:11 8557 May 20 09:28 8557 May 26 07:36	21°\delta 59'\delta 1 20°\delta 49'\delta 1 15°\delta 00'\delta 0 15°\delta 00'\delta 1 13°\delta 06'\delta 3 8°\delta 2'\delta 5 5°\delta 57'\delta 1 8°\delta 27'\delta 2 13°\delta 32'\delta 0	3°22'34 3°22'26 0.66443 AU
morning max el	8556 Jun 02 12:28 8556 Jun 12 10:42 8556 Jun 12 21:13 8556 Jul 04 17:51 8556 Jul 18 08:39 8556 Jul 21 06:29	22°♂30'26 23°♂02'26 0°Ⅲ 0°Ⅲ26'20 0°☞ 24°☞14'39 0°Ω		retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	8557 Apr 22 22:03 8557 Apr 26 09:37 8557 May 01 21:02 8557 May 01 20:48 8557 May 03 08:32 8557 May 07 07:34 8557 May 13 14:11 8557 May 20 09:28 8557 May 26 07:36 8557 Jun 08 15:14	21°\\$59'\\$41'\ 20°\\$\\$49'\01'\ 15°\\$\\$00'\30'\ 15°\\$\\$01'\15'\ 13°\\$\\$06'\13'\ 8°\\$\\$42'\07'\ 5°\\$\\$57'\11'\ 8°\\$\\$27'\32'\ 13°\\$\\$32'\30\ 0°\\$\\$\\$	3°22'34 3°22'26 0.66443 AU
morning max el morning set max. Earth dist. asc. node	8556 Jun 02 12:28 8556 Jun 12 10:42 8556 Jun 12 21:13 8556 Jul 04 17:51 8556 Jul 18 08:39 8556 Jul 21 06:29 8556 Jul 22 21:37 8556 Jul 25 20:35	22°830'26 23°802'26 0° II 0° II 26'20 0° S 24° S 14'39 0° A 3° A 18'41 9° A 27'11	1.33498 AU	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	8557 Apr 22 22:03 8557 Apr 26 09:37 8557 May 01 21:02 8557 May 01 20:48 8557 May 03 08:32 8557 May 07 07:34 8557 May 13 14:11 8557 May 20 09:28 8557 May 26 07:36 8557 Jun 08 15:14 8557 Jun 27 11:22	21°\S59'\H2120°\S49'\O115°\S00'\H30'\H30'\H30'\H30'\H30'\H30'\H30'\H	3°22'34 3°22'26 0.66443 AU
morning max el morning set max. Earth dist. asc. node superior conj	8556 Jun 02 12:28 8556 Jun 12 10:42 8556 Jun 12 21:13 8556 Jul 04 17:51 8556 Jul 18 08:39 8556 Jul 21 06:29 8556 Jul 22 21:37 8556 Jul 25 20:35	22°830'26 23°802'26 0°II 0°II26'20 0°S 24°S14'39 0°A 3°A18'41 9°A27'11	1.33498 AU 0°08'08	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	8557 Apr 22 22:03 8557 Apr 26 09:37 8557 May 01 21:02 8557 May 01 20:48 8557 May 03 08:32 8557 May 07 07:34 8557 May 13 14:11 8557 May 20 09:28 8557 May 26 07:36 8557 Jun 08 15:14 8557 Jun 27 11:22 8557 Jul 01 09:04	21°\S59'\H2120°\S49'\O115°\S00'\H30'\H30'\H30'\H30'\H30'\H30'\H30'\H	3°22'34 3°22'26 0.66443 AU 26°11'38
morning max el morning set max. Earth dist. asc. node superior conj minimum elong	8556 Jun 02 12:28 8556 Jun 12 10:42 8556 Jun 12 21:13 8556 Jul 04 17:51 8556 Jul 18 08:39 8556 Jul 21 06:29 8556 Jul 22 21:37 8556 Jul 25 20:35 8556 Jul 26 15:54 8556 Jul 26 15:29	22°830'26 23°802'26 0° II 0° II 26'20 0° © 24° © 14'39 0° \(\Omega\) 3° \(\Omega\) 18'41 9° \(\Omega\) 27'11 11° \(\Omega\) 09'04 11° \(\Omega\) 06'54	1.33498 AU	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	8557 Apr 22 22:03 8557 Apr 26 09:37 8557 May 01 21:02 8557 May 01 20:48 8557 May 03 08:32 8557 May 07 07:34 8557 May 13 14:11 8557 May 20 09:28 8557 May 26 07:36 8557 Jun 08 15:14 8557 Jun 27 11:22	21°\S59'\H2120°\S49'\O115°\S00'\H30'\H30'\H30'\H30'\H30'\H30'\H30'\H	3°22'34 3°22'26 0.66443 AU
morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin	8556 Jun 02 12:28 8556 Jun 12 10:42 8556 Jun 12 21:13 8556 Jul 04 17:51 8556 Jul 18 08:39 8556 Jul 21 06:29 8556 Jul 22 21:37 8556 Jul 25 20:35 8556 Jul 26 15:54 8556 Jul 26 15:29 8556 Jul 26 10:37	22°830'26 23°802'26 0° II 0° II 26'20 0° © 24° © 14'39 0° \(\Omega\) 3° \(\Omega\) 18'41 9° \(\Omega\) 27'11 11° \(\Omega\) 09'04 11° \(\Omega\) 06'54 10° \(\Omega\) 41'09	1.33498 AU 0°08'08	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	8557 Apr 22 22:03 8557 Apr 26 09:37 8557 May 01 21:02 8557 May 01 20:48 8557 May 03 08:32 8557 May 07 07:34 8557 May 13 14:11 8557 May 20 09:28 8557 Jun 08 15:14 8557 Jun 07:36 8557 Jun 08 15:14 8557 Jun 07:09:04 8557 Jul 07:09:04	21°859'41 20°849'01 15°800'30 15°801'15 13°806'13 8°842'07 5°857'11 8°827'32 13°832'30 0°II 0°S 7°S06'06 14°S33'38	3°22'34 3°22'26 0.66443 AU 26°11'38
morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end	8556 Jun 02 12:28 8556 Jun 12 10:42 8556 Jun 12 21:13 8556 Jul 04 17:51 8556 Jul 18 08:39 8556 Jul 21 06:29 8556 Jul 22 21:37 8556 Jul 25 20:35 8556 Jul 26 15:54 8556 Jul 26 15:29 8556 Jul 26 10:37 8556 Jul 26 20:21	22°830'26 23°802'26 0° II 0° II 26'20 0° S 24° S14'39 0° \(\lambda \) 3° \(\lambda \) 18'41 9° \(\lambda \) 27'11 11° \(\lambda \) 06'54 10° \(\lambda \) 41'09 11° \(\lambda \) 32'41	1.33498 AU 0°08'08	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj	8557 Apr 22 22:03 8557 Apr 26 09:37 8557 May 01 21:02 8557 May 01 20:48 8557 May 03 08:32 8557 May 07 07:34 8557 May 13 14:11 8557 May 20 09:28 8557 May 26 07:36 8557 Jun 08 15:14 8557 Jun 27 11:22 8557 Jul 01 09:04 8557 Jul 05 07:10	21°859'41 20°849'01 15°800'30 15°801'15 13°806'13 8°842'07 5°857'11 8°827'32 13°832'30 0°II 0°\$ 7°\$06'06 14°\$33'38	3°22'34 3°22'26 0.66443 AU 26°11'38 1.35084 AU -0°22'09
morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin	8556 Jun 02 12:28 8556 Jun 12 10:42 8556 Jun 12 21:13 8556 Jul 04 17:51 8556 Jul 18 08:39 8556 Jul 21 06:29 8556 Jul 22 21:37 8556 Jul 25 20:35 8556 Jul 26 15:54 8556 Jul 26 15:29 8556 Jul 26 10:37 8556 Jul 26 20:21 8556 Aug 02 20:54	22°830'26 23°802'26 0° II 0° II 26'20 0° S 24° S14'39 0° R 3° R18'41 9° R27'11 11° R09'04 11° R06'54 10° R41'09 11° R32'41 26° R31'19	1.33498 AU 0°08'08	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	8557 Apr 22 22:03 8557 Apr 26 09:37 8557 May 01 21:02 8557 May 01 20:48 8557 May 03 08:32 8557 May 07 07:34 8557 May 13 14:11 8557 May 20 09:28 8557 May 26 07:36 8557 Jun 08 15:14 8557 Jun 27 11:22 8557 Jul 01 09:04 8557 Jul 05 07:10 8557 Jul 10 12:06 8557 Jul 10 13:23	21°859'41 20°849'01 15°800'30 15°801'15 13°806'13 8°842'07 5°857'11 8°827'32 13°832'30 0°II 0°\$ 7°\$06'06 14°\$33'38 24°\$56'50 25°\$03'23	3°22'34 3°22'26 0.66443 AU 26°11'38 1.35084 AU -0°22'09
morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end	8556 Jun 02 12:28 8556 Jun 12 10:42 8556 Jun 12 21:13 8556 Jul 04 17:51 8556 Jul 18 08:39 8556 Jul 21 06:29 8556 Jul 22 21:37 8556 Jul 25 20:35 8556 Jul 26 15:54 8556 Jul 26 15:29 8556 Jul 26 10:37 8556 Jul 26 20:21 8556 Aug 02 20:54 8556 Aug 04 12:46	22°830'26 23°802'26 0°	1.33498 AU 0°08'08	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj	8557 Apr 22 22:03 8557 Apr 26 09:37 8557 May 01 21:02 8557 May 01 20:48 8557 May 03 08:32 8557 May 07 07:34 8557 May 13 14:11 8557 May 20 09:28 8557 May 26 07:36 8557 Jun 08 15:14 8557 Jun 27 11:22 8557 Jul 01 09:04 8557 Jul 05 07:10 8557 Jul 10 12:06 8557 Jul 10 13:23 8557 Jul 10 13:23 8557 Jul 12 17:33	21°859'41 20°849'01 15°800'30 15°801'15 13°806'13 8°842'07 5°857'11 8°827'32 13°832'30 0°II 0°9 7°906'06 14°933'38 24°956'50 25°903'23 29°931'42	3°22'34 3°22'26 0.66443 AU 26°11'38 1.35084 AU -0°22'09
morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end evening rise	8556 Jun 02 12:28 8556 Jun 12 10:42 8556 Jun 12 21:13 8556 Jul 04 17:51 8556 Jul 18 08:39 8556 Jul 21 06:29 8556 Jul 22 21:37 8556 Jul 25 20:35 8556 Jul 26 15:54 8556 Jul 26 15:29 8556 Jul 26 10:37 8556 Jul 26 20:21 8556 Aug 02 20:54 8556 Aug 04 12:46 8556 Aug 23 02:51	22°830'26 23°802'26 0°	1.33498 AU 0°08'08 0°07'53	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	8557 Apr 22 22:03 8557 Apr 26 09:37 8557 May 01 21:02 8557 May 01 20:48 8557 May 03 08:32 8557 May 07 07:34 8557 May 13 14:11 8557 May 20 09:28 8557 May 26 07:36 8557 Jun 08 15:14 8557 Jun 27 11:22 8557 Jul 01 09:04 8557 Jul 05 07:10 8557 Jul 10 12:06 8557 Jul 10 13:23 8557 Jul 12 17:33 8557 Jul 12 23:01	21°859'41 20°849'01 15°800'30 15°801'15 13°806'13 8°842'07 5°857'11 8°827'32 13°832'30 0°II 0°\$ 7°\$06'06 14°\$33'38 24°\$56'50 25°\$03'23 29°\$31'42 0°\$	3°22'34 3°22'26 0.66443 AU 26°11'38 1.35084 AU -0°22'09
morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end evening rise evening max el	8556 Jun 02 12:28 8556 Jun 12 10:42 8556 Jun 12 21:13 8556 Jul 04 17:51 8556 Jul 18 08:39 8556 Jul 21 06:29 8556 Jul 22 21:37 8556 Jul 25 20:35 8556 Jul 26 15:54 8556 Jul 26 15:59 8556 Jul 26 10:37 8556 Jul 26 20:21 8556 Aug 02 20:54 8556 Aug 04 12:46 8556 Aug 23 02:51 8556 Aug 23 18:18	22°830'26 23°802'26 0° II 0° II 26'20 0° S 24° S14'39 0° R 3° R18'41 9° R27'11 11° R09'04 11° R06'54 10° R41'09 11° R32'41 26° R31'19 0° ID 0° S 0° S	1.33498 AU 0°08'08	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	8557 Apr 22 22:03 8557 Apr 26 09:37 8557 May 01 21:02 8557 May 01 20:48 8557 May 03 08:32 8557 May 07 07:34 8557 May 13 14:11 8557 May 20 09:28 8557 May 26 07:36 8557 Jun 08 15:14 8557 Jun 07 11:22 8557 Jul 01 09:04 8557 Jul 05 07:10 8557 Jul 10 12:06 8557 Jul 10 13:23 8557 Jul 12 17:33 8557 Jul 12 23:01 8557 Jul 18 05:15	21°859'41 20°849'01 15°800'30 15°800'15 13°806'13 8°842'07 5°857'11 8°827'32 13°832'30 0°II 0°\$ 7°\$06'06 14°\$33'38 24°\$56'50 25°\$03'23 29°\$31'42 0°\$ 10°\$\$26'09	3°22'34 3°22'26 0.66443 AU 26°11'38 1.35084 AU -0°22'09
morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end evening rise evening max el desc. node	8556 Jun 02 12:28 8556 Jun 12 10:42 8556 Jun 12 21:13 8556 Jul 04 17:51 8556 Jul 18 08:39 8556 Jul 21 06:29 8556 Jul 22 21:37 8556 Jul 25 20:35 8556 Jul 26 15:54 8556 Jul 26 15:29 8556 Jul 26 10:37 8556 Jul 26 20:21 8556 Aug 02 20:54 8556 Aug 04 12:46 8556 Aug 23 02:51 8556 Aug 23 18:18 8556 Aug 29 11:24	22°830'26 23°802'26 0°	1.33498 AU 0°08'08 0°07'53	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise	8557 Apr 22 22:03 8557 Apr 26 09:37 8557 May 01 21:02 8557 May 01 20:48 8557 May 03 08:32 8557 May 07 07:34 8557 May 13 14:11 8557 May 20 09:28 8557 May 26 07:36 8557 Jun 08 15:14 8557 Jun 07 11:22 8557 Jul 01 09:04 8557 Jul 01 09:04 8557 Jul 10 12:06 8557 Jul 10 13:23 8557 Jul 10 13:23 8557 Jul 12 23:01 8557 Jul 18 05:15 8557 Jul 28 05:54	21°859'41 20°849'01 15°800'30 15°800'15 13°806'13 8°842'07 5°857'11 8°827'32 13°832'30 0°II 0°\$7°\$06'06 14°\$33'38 24°\$56'50 25°\$03'23 29°\$31'42 0°\$\Omega\$ 10°\$\Omega\$ 10°\$\Omega\$ 0°\$\Omega\$	3°22'34 3°22'26 0.66443 AU 26°11'38 1.35084 AU -0°22'09 0°22'05
morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde	8556 Jun 02 12:28 8556 Jun 12 10:42 8556 Jun 12 21:13 8556 Jul 04 17:51 8556 Jul 18 08:39 8556 Jul 21 06:29 8556 Jul 22 21:37 8556 Jul 25 20:35 8556 Jul 26 15:54 8556 Jul 26 15:29 8556 Jul 26 10:37 8556 Jul 26 20:21 8556 Aug 02 20:54 8556 Aug 04 12:46 8556 Aug 23 02:51 8556 Aug 23 18:18 8556 Aug 29 11:24 8556 Sep 05 11:19	22°830'26 23°802'26 0° II 0° II 26'20 0° S 24° S 14'39 0° N 3° N 18'41 9° N 27'11 11° N 09'04 11° N 06'54 10° N 41'09 11° N 32'41 26° N 31'19 0° ID 0° D 0° S 0° S 38'48 5° S 02'22 6° S 57'52	1.33498 AU 0°08'08 0°07'53	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise evening max el	8557 Apr 22 22:03 8557 Apr 26 09:37 8557 May 01 21:02 8557 May 01 20:48 8557 May 03 08:32 8557 May 07 07:34 8557 May 13 14:11 8557 May 20 09:28 8557 May 26 07:36 8557 Jun 08 15:14 8557 Jun 07 11:22 8557 Jul 01 09:04 8557 Jul 01 09:04 8557 Jul 10 12:06 8557 Jul 10 13:23 8557 Jul 12 17:33 8557 Jul 12 23:01 8557 Jul 18 05:15 8557 Jul 28 05:54 8557 Aug 05 17:58	21°\S59'\41 20°\S49'\01 15°\S00'\30 15°\S01'\15 13°\S06'\13 8°\S42'\07 5°\S57'\11 8°\S27'\32 13°\S32'\30 0°\II 0°\S 7°\S06'\06 14°\S33'\38 24°\S56'\50 25°\S03'\23 29°\S31'\42 0°\L 10°\L 10°\L 56'\09 0°\II 11°\II\18'\40	3°22'34 3°22'26 0.66443 AU 26°11'38 1.35084 AU -0°22'09 0°22'05
morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set	8556 Jun 02 12:28 8556 Jun 12 10:42 8556 Jun 12 21:13 8556 Jul 04 17:51 8556 Jul 18 08:39 8556 Jul 21 06:29 8556 Jul 22 21:37 8556 Jul 25 20:35 8556 Jul 26 15:54 8556 Jul 26 15:29 8556 Jul 26 10:37 8556 Jul 26 20:21 8556 Aug 02 20:54 8556 Aug 04 12:46 8556 Aug 04 12:46 8556 Aug 23 02:51 8556 Aug 29 11:24 8556 Sep 05 11:19 8556 Sep 08 11:03	22°830'26 23°802'26 0° II 0° II 26'20 0° © 24° © 14'39 0° \(\alpha\) 3° \(\alpha\) 11° \(\alpha\) 09'04 11° \(\alpha\) 06'54 10° \(\alpha\) 41'09 11° \(\alpha\) 32'41 26° \(\alpha\) 31'19 0° \(\mathred\) 0° \(\mathred\) 38'48 5° \(\mathred\) 20'22 6° \(\mathred\) 57'52 6° \(\mathred\) 38'00	1.33498 AU 0°08'08 0°07'53 22°02'28	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise evening max el desc. node	8557 Apr 22 22:03 8557 Apr 26 09:37 8557 May 01 21:02 8557 May 01 20:48 8557 May 03 08:32 8557 May 07 07:34 8557 May 13 14:11 8557 May 20 09:28 8557 May 26 07:36 8557 Jun 08 15:14 8557 Jun 27 11:22 8557 Jul 01 09:04 8557 Jul 05 07:10 8557 Jul 10 12:06 8557 Jul 10 13:23 8557 Jul 12 23:01 8557 Jul 18 05:15 8557 Jul 28 05:54 8557 Aug 05 17:58 8557 Aug 16 08:31	21°\S59'\41 20°\S49'\01 15°\S00'\30 15°\S01'\15 13°\S06'\13 8°\S42'\07 5°\S57'\11 8°\S27'\32 13°\S32'\30 0°\II 0°\S 7°\S06'\06 14°\S33'\38 24°\S56'\50 25°\S03'\23 29°\S31'\42 0°\R 10°\R56'\09 0°\R 11°\R18'\40 16°\R55'\12	3°22'34 3°22'26 0.66443 AU 26°11'38 1.35084 AU -0°22'09 0°22'05
morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set min. Earth dist.	8556 Jun 02 12:28 8556 Jun 12 10:42 8556 Jun 12 21:13 8556 Jul 04 17:51 8556 Jul 18 08:39 8556 Jul 21 06:29 8556 Jul 22 21:37 8556 Jul 25 20:35 8556 Jul 26 15:54 8556 Jul 26 15:29 8556 Jul 26 10:37 8556 Jul 26 20:21 8556 Aug 02 20:54 8556 Aug 04 12:46 8556 Aug 23 02:51 8556 Aug 29 11:24 8556 Sep 05 11:19 8556 Sep 16 23:06	22°830'26 23°802'26 0° II 0° II 26'20 0° S 24° S14'39 0° A 3° A18'41 9° A27'11 11° A09'04 11° A06'54 10° A41'09 11° A32'41 26° A31'19 0° ID 0° S	1.33498 AU 0°08'08 0°07'53 22°02'28 0.54827 AU	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise evening max el desc. node retrograde	8557 Apr 22 22:03 8557 Apr 26 09:37 8557 May 01 21:02 8557 May 01 20:48 8557 May 03 08:32 8557 May 07 07:34 8557 May 13 14:11 8557 May 20 09:28 8557 May 26 07:36 8557 Jun 08 15:14 8557 Jun 07 11:22 8557 Jul 01 09:04 8557 Jul 05 07:10 8557 Jul 10 12:06 8557 Jul 10 13:23 8557 Jul 10 13:23 8557 Jul 12 23:01 8557 Jul 18 05:15 8557 Jul 28 05:54 8557 Aug 05 17:58 8557 Aug 16 08:31 8557 Aug 16 23:27	21°\S59'\41 20°\S49'\01 15°\S00'\30 15°\S01'\15 13°\S06'\13 8°\S42'\07 5°\S57'\11 8°\S27'\32 13°\S32'\30 0°\PI 0°\S 7°\S06'\06 14°\S33'\38 24°\S56'\50 25°\S03'\23 29°\S31'\42 0°\R 10°\R56'\09 0°\PI 11°\PI\18'\40 16°\PI\51'\12 16°\PI\52'\11	3°22'34 3°22'26 0.66443 AU 26°11'38 1.35084 AU -0°22'09 0°22'05
morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set	8556 Jun 02 12:28 8556 Jun 12 10:42 8556 Jun 12 21:13 8556 Jul 04 17:51 8556 Jul 18 08:39 8556 Jul 21 06:29 8556 Jul 22 21:37 8556 Jul 25 20:35 8556 Jul 26 15:54 8556 Jul 26 15:29 8556 Jul 26 10:37 8556 Jul 26 20:21 8556 Aug 02 20:54 8556 Aug 04 12:46 8556 Aug 04 12:46 8556 Aug 23 02:51 8556 Aug 29 11:24 8556 Sep 05 11:19 8556 Sep 08 11:03	22°830'26 23°802'26 0° II 0° II 26'20 0° © 24° © 14'39 0° \(\alpha\) 3° \(\alpha\) 11° \(\alpha\) 09'04 11° \(\alpha\) 06'54 10° \(\alpha\) 41'09 11° \(\alpha\) 32'41 26° \(\alpha\) 31'19 0° \(\mathred\) 0° \(\mathred\) 38'48 5° \(\mathred\) 20'22 6° \(\mathred\) 57'52 6° \(\mathred\) 38'00	1.33498 AU 0°08'08 0°07'53 22°02'28 0.54827 AU	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise evening max el desc. node	8557 Apr 22 22:03 8557 Apr 26 09:37 8557 May 01 21:02 8557 May 01 20:48 8557 May 03 08:32 8557 May 07 07:34 8557 May 13 14:11 8557 May 20 09:28 8557 May 26 07:36 8557 Jun 08 15:14 8557 Jun 27 11:22 8557 Jul 01 09:04 8557 Jul 05 07:10 8557 Jul 10 12:06 8557 Jul 10 13:23 8557 Jul 12 23:01 8557 Jul 18 05:15 8557 Jul 28 05:54 8557 Aug 05 17:58 8557 Aug 16 08:31	21°\S59'\41 20°\S49'\01 15°\S00'\30 15°\S01'\15 13°\S06'\13 8°\S42'\07 5°\S57'\11 8°\S27'\32 13°\S32'\30 0°\II 0°\S 7°\S06'\06 14°\S33'\38 24°\S56'\50 25°\S03'\23 29°\S31'\42 0°\R 10°\R56'\09 0°\R 11°\R18'\40 16°\R55'\12	3°22'34 3°22'26 0.66443 AU 26°11'38 1.35084 AU -0°22'09 0°22'05

inferior conj	8557 Aug 28 05:43	12° m 44'37	-3°20'46	inferior conj	8558 Aug 08 08:48	23° Ω 08'37	-1°34'30
minimum elong	8557 Aug 27 20:43		3°26'56	minimum elong	8558 Aug 08 04:32		1°32'58
min. Earth dist.	8557 Aug 29 08:16	12° My 06'23	0.54774 AU	min. Earth dist.	8558 Aug 10 20:46	23 δ <i>t</i> 13 30 21° Ω 32'11	0.55663 AU
morning rise	8557 Sep 05 16:05	8° Mp 42'49	0.54774 AU	morning rise	8558 Aug 16 14:22	18° Ω 34'41	0.55005 AU
•	•	8° M) 06'55		•	•	17° Ω 40'33	
direct	8557 Sep 09 18:20	•	22022150	direct	8558 Aug 21 11:53	1/° δ (40'33' 24° Ω 44'03	25907127
morning max el	8557 Sep 23 00:28	14° Mp 30'24	23-22-38	morning max el	8558 Sep 04 12:52		25-07-36
1	8557 Oct 05 00:06	0∘ ʊ		1	8558 Sep 09 09:53	0° Mp	
asc. node	8557 Oct 08 17:17	6° £ 25'51		asc. node	8558 Sep 25 14:14	25° m/40'54	
morning set	8557 Oct 16 11:44	21° ≏ 53'48			8558 Sep 27 18:16	0° ⊽	
	8557 Oct 20 06:12	0°M₊		morning set	8558 Sep 30 23:24	6° ≏ 42'02	
superior conj	8557 Oct 23 10:37	6°M53'32	1°40'53	superior conj	8558 Oct 07 20:08	21° ≏ 41'09	1°35'52
minimum elong	8557 Oct 23 10:37 8557 Oct 23 10:14	6°M51'25	1°40'59	minimum elong	8558 Oct 07 20:08 8558 Oct 07 18:44	21° ⊆ 33'30	1°35'50
max. Earth dist.	8557 Oct 26 04:39	12°M45'49	1.33380 AU	max. Earth dist.	8558 Oct 07 18:44 8558 Oct 09 08:18	21° ⊆ 59'15	1.32336 AU
evening rise	8557 Oct 31 02:38	22°M51'47	1.33360 AU	max. Earth dist.	8558 Oct 11 15:54	0°M	1.32330 AU
evening rise	8557 Nov 03 18:56	0° x ⁷		evening rise	8558 Oct 11 13:34 8558 Oct 15 00:11	7°ML02'03	
desc. node	8557 Nov 12 07:14	15° ∡ 02'34		evening rise	8558 Oct 27 06:56	7 11 c 02 03 0° x 7	
desc. node		13 x・02 34 0°る		11-			
	8557 Nov 22 04:29		27020154	desc. node	8558 Oct 30 04:20	4° 🖈 42'40	27020117
evening max el	8557 Dec 04 08:37	14°る22'45	2/20/54	evening max el	8558 Nov 16 18:54	27°×22'08	2/°28'1/
retrograde	8557 Dec 17 21:20	21° 3 43'07		. 1	8558 Nov 19 19:22	0°る	
evening set	8557 Dec 24 19:02	19°る07'57	0.64500.477	retrograde	8558 Nov 30 13:39	4° る 39'11	
min. Earth dist.	8557 Dec 28 14:58		0.64500 AU	evening set	8558 Dec 07 15:46	2°る12'39	
inferior conj	8557 Dec 31 00:32	13° る 03'53		e per et et	8558 Dec 10 10:54	30°₹ <i>≯</i> 7	0.62655
minimum elong	8557 Dec 31 03:24	12° る 56'11	1°32'13	min. Earth dist.	8558 Dec 11 08:18		0.62677 AU
asc. node	8558 Jan 04 16:42	8° る 41'46		inferior conj	8558 Dec 14 04:30	26° ≯ 28'21	
morning rise	8558 Jan 06 13:22	7° る 38'01		minimum elong	8558 Dec 14 09:43	26° ⊀ 15'51	2°41'20
direct	8558 Jan 09 02:13	7° る 04'59		morning rise	8558 Dec 21 05:48	21° ₹ 19'28	
morning max el	8558 Jan 15 12:49	10° る 27'16	17°53'55	asc. node	8558 Dec 22 13:46	20° ≯ 59'35	
	8558 Jan 28 22:55	0° ≈		direct	8558 Dec 23 12:58	20° ₹ 55'14	
morning set	8558 Feb 01 17:22	6° ≈ 19'33		morning max el	8558 Dec 30 06:04	24° ₹ 21'24	17°48'01
desc. node	8558 Feb 08 06:38	17° ≈ 15′02			8559 Jan 03 20:07	0°ප	
				morning set	8559 Jan 15 05:59	19° る 04'25	
superior conj	8558 Feb 15 06:21	28° ≈ 37′03	-0°49'17		8559 Jan 21 11:46	0° ≈	
minimum elong	8558 Feb 15 00:44	28° ≈ 14'27	0°48'24	desc. node	8559 Jan 26 03:35	7° ≈ 56'50	
	8558 Feb 16 03:05	0° ℋ					
max. Earth dist.	8558 Feb 19 22:11	6°) €01'46	1.45054 AU	superior conj	8559 Jan 26 21:01	9° ≈ 10′00	-0°05'22
evening rise	8558 Mar 03 06:27	23°) 40′10		minimum elong	8559 Jan 26 20:30	9° ≈ 07'50	0°05'08
	8558 Mar 07 09:45	0 ° Υ		behind sun begin	8559 Jan 26 11:50	8° ≈ 31'31	
greatest brilliancy	8558 Mar 18 02:51	16° Ƴ 03'16	-0.6m	behind sun end	8559 Jan 27 05:10	9° ≈ 44'04	
	8558 Mar 28 13:01	0°B		max. Earth dist.	8559 Feb 02 14:57	20° ≈ 14'30	1.43888 AU
evening max el	8558 Mar 30 03:30	1° 8 43'35	20°05'37		8559 Feb 08 18:48	0° ℋ	
asc. node				ovening rise			
	8558 Apr 02 15:31	4° 8 42'42		evening rise	8559 Feb 10 18:36	3° ₩ 05'37	
retrograde	8558 Apr 02 15:31 8558 Apr 06 20:28	4° 8 42'42 6° 8 11'27		evening rise	8559 Feb 10 18:36 8559 Feb 28 21:30	3°) €05'37 0° °	
retrograde evening set	•	•		evening rise		0° Y	21°13'35
•	8558 Apr 06 20:28	6° 8 11'27			8559 Feb 28 21:30	0° Y	21°13'35
•	8558 Apr 06 20:28 8558 Apr 10 16:37	6°811'27 4°845'47 30°R Y	3°13'59	evening max el	8559 Feb 28 21:30 8559 Mar 13 02:08	0°Υ 15°Υ23'17 20°Υ22'56 20°Υ31'01	21°13'35
evening set	8558 Apr 06 20:28 8558 Apr 10 16:37 8558 Apr 15 01:54	6°811'27 4°845'47 30°R Y	3°13'59 3°13'45	evening max el asc. node	8559 Feb 28 21:30 8559 Mar 13 02:08 8559 Mar 20 12:39	0°Υ 15°Υ23'17 20°Υ22'56	21°13'35
evening set inferior conj	8558 Apr 06 20:28 8558 Apr 10 16:37 8558 Apr 15 01:54 8558 Apr 16 00:45	6°811'27 4°845'47 30°8Υ 28°Υ43'16 28°Υ47'35 27°Υ32'00		evening max el asc. node retrograde	8559 Feb 28 21:30 8559 Mar 13 02:08 8559 Mar 20 12:39 8559 Mar 21 18:53	0°Υ 15°Υ23'17 20°Υ22'56 20°Υ31'01	21°13'35 2°54'25
evening set inferior conj minimum elong	8558 Apr 06 20:28 8558 Apr 10 16:37 8558 Apr 15 01:54 8558 Apr 16 00:45 8558 Apr 15 23:28	6°811'27 4°845'47 30°8°Y 28°°Y43'16 28°°Y47'35	3°13'45	evening max el asc. node retrograde evening set	8559 Feb 28 21:30 8559 Mar 13 02:08 8559 Mar 20 12:39 8559 Mar 21 18:53 8559 Mar 26 00:45	0°Y 15°Y23'17 20°Y22'56 20°Y31'01 18°Y50'14 12°Y36'08 12°Y42'58	
evening set inferior conj minimum elong min. Earth dist.	8558 Apr 06 20:28 8558 Apr 10 16:37 8558 Apr 15 01:54 8558 Apr 16 00:45 8558 Apr 15 23:28 8558 Apr 16 21:47	6°\delta11'27 4°\delta45'47 30°\reftaY 28°\delta43'16 28°\delta47'35 27°\delta32'00 22°\delta26'02 19°\delta51'14	3°13'45	evening max el asc. node retrograde evening set inferior conj	8559 Feb 28 21:30 8559 Mar 13 02:08 8559 Mar 20 12:39 8559 Mar 21 18:53 8559 Mar 26 00:45 8559 Mar 31 07:59	0°Y 15°Y23'17 20°Y22'56 20°Y31'01 18°Y50'14 12°Y36'08 12°Y42'58 12°Y09'06	2°54'25
evening set inferior conj minimum elong min. Earth dist. morning rise	8558 Apr 06 20:28 8558 Apr 10 16:37 8558 Apr 15 01:54 8558 Apr 16 00:45 8558 Apr 15 23:28 8558 Apr 16 21:47 8558 Apr 21 06:05	6°\delta11'27 4°\delta45'47 30°\text{R}\text{Y} 28°\delta43'16 28°\delta47'35 27°\delta32'00 22°\delta26'02	3°13'45	evening max el asc. node retrograde evening set inferior conj minimum elong	8559 Feb 28 21:30 8559 Mar 13 02:08 8559 Mar 20 12:39 8559 Mar 21 18:53 8559 Mar 26 00:45 8559 Mar 31 07:59 8559 Mar 31 06:01	0°Y 15°Y23'17 20°Y22'56 20°Y31'01 18°Y50'14 12°Y36'08 12°Y42'58	2°54'25 2°53'59
evening set inferior conj minimum elong min. Earth dist. morning rise direct	8558 Apr 06 20:28 8558 Apr 10 16:37 8558 Apr 15 01:54 8558 Apr 16 00:45 8558 Apr 15 23:28 8558 Apr 16 21:47 8558 Apr 21 06:05 8558 Apr 27 00:52	6°\delta11'27 4°\delta45'47 30°\reftaY 28°\delta43'16 28°\delta47'35 27°\delta32'00 22°\delta26'02 19°\delta51'14	3°13'45 0.67556 AU	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	8559 Feb 28 21:30 8559 Mar 13 02:08 8559 Mar 20 12:39 8559 Mar 21 18:53 8559 Mar 26 00:45 8559 Mar 31 07:59 8559 Mar 31 06:01 8559 Mar 31 15:47	0°Y 15°Y23'17 20°Y22'56 20°Y31'01 18°Y50'14 12°Y36'08 12°Y42'58 12°Y09'06	2°54'25 2°53'59
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	8558 Apr 06 20:28 8558 Apr 10 16:37 8558 Apr 15 01:54 8558 Apr 16 00:45 8558 Apr 15 23:28 8558 Apr 16 21:47 8558 Apr 21 06:05 8558 Apr 27 00:52 8558 May 07 06:28	6°\delta11'27 4°\delta45'47 30°\reftaY 28°\delta43'16 28°\delta43'16 22°\delta20'00 22°\delta26'02 19°\delta51'14 25°\delta26'28	3°13'45 0.67556 AU	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8559 Feb 28 21:30 8559 Mar 13 02:08 8559 Mar 20 12:39 8559 Mar 21 18:53 8559 Mar 26 00:45 8559 Mar 31 07:59 8559 Mar 31 06:01 8559 Mar 31 15:47 8559 Apr 05 11:05	0°Y 15°Y23'17 20°Y22'56 20°Y31'01 18°Y50'14 12°Y36'08 12°Y42'58 12°Y09'06 6°Y21'59	2°54'25 2°53'59
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	8558 Apr 06 20:28 8558 Apr 10 16:37 8558 Apr 15 01:54 8558 Apr 16 00:45 8558 Apr 15 23:28 8558 Apr 16 21:47 8558 Apr 21 06:05 8558 Apr 27 00:52 8558 May 07 06:28 8558 May 08 17:08	6°811'27 4°845'47 30°8° 28°°43'16 28°°47'35 27°°432'00 22°°426'02 19°451'14 25°426'28 26°°451'13	3°13'45 0.67556 AU	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8559 Feb 28 21:30 8559 Mar 13 02:08 8559 Mar 20 12:39 8559 Mar 21 18:53 8559 Mar 26 00:45 8559 Mar 31 07:59 8559 Mar 31 06:01 8559 Mar 31 15:47 8559 Apr 05 11:05 8559 Apr 10 16:23	0°Y 15°Y23'17 20°Y22'56 20°Y31'01 18°Y50'14 12°Y36'08 12°Y42'58 12°Y09'06 6°Y21'59 4°Y04'25	2°54'25 2°53'59 0.68223 AU
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	8558 Apr 06 20:28 8558 Apr 10 16:37 8558 Apr 15 01:54 8558 Apr 16 00:45 8558 Apr 15 23:28 8558 Apr 16 21:47 8558 Apr 21 06:05 8558 Apr 27 00:52 8558 May 07 06:28 8558 May 08 17:08 8558 May 11 15:20	6°811'27 4°845'47 30°8°Y 28°Y43'16 28°Y47'35 27°Y32'00 22°Y26'02 19°Y51'14 25°Y26'28 26°Y51'13 0°8	3°13'45 0.67556 AU	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	8559 Feb 28 21:30 8559 Mar 13 02:08 8559 Mar 20 12:39 8559 Mar 21 18:53 8559 Mar 26 00:45 8559 Mar 31 07:59 8559 Mar 31 06:01 8559 Mar 31 15:47 8559 Apr 05 11:05 8559 Apr 10 16:23 8559 Apr 21 02:33	0°Y 15°Y23'17 20°Y22'56 20°Y31'01 18°Y50'14 12°Y36'08 12°Y42'58 12°Y09'06 6°Y21'59 4°Y04'25 10°Y16'39	2°54'25 2°53'59 0.68223 AU
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	8558 Apr 06 20:28 8558 Apr 10 16:37 8558 Apr 15 01:54 8558 Apr 16 00:45 8558 Apr 15 23:28 8558 Apr 16 21:47 8558 Apr 21 06:05 8558 Apr 27 00:52 8558 May 07 06:28 8558 May 08 17:08 8558 May 11 15:20 8558 Jun 02 06:00	6°811'27 4°845'47 30°RY 28°Y43'16 28°Y47'35 27°Y32'00 22°Y26'02 19°Y51'14 25°Y26'28 26°Y51'13 0°8 0°II	3°13'45 0.67556 AU	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	8559 Feb 28 21:30 8559 Mar 13 02:08 8559 Mar 20 12:39 8559 Mar 21 18:53 8559 Mar 26 00:45 8559 Mar 31 07:59 8559 Mar 31 06:01 8559 Mar 31 15:47 8559 Apr 05 11:05 8559 Apr 10 16:23 8559 Apr 21 02:33 8559 Apr 24 03:26	0°Y 15°Y23'17 20°Y22'56 20°Y31'01 18°Y50'14 12°Y36'08 12°Y42'58 12°Y09'06 6°Y21'59 4°Y04'25 10°Y16'39 13°Y33'24	2°54'25 2°53'59 0.68223 AU
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	8558 Apr 06 20:28 8558 Apr 10 16:37 8558 Apr 15 01:54 8558 Apr 16 00:45 8558 Apr 15 23:28 8558 Apr 16 21:47 8558 Apr 21 06:05 8558 Apr 27 00:52 8558 May 07 06:28 8558 May 08 17:08 8558 May 11 15:20 8558 Jun 02 06:00 8558 Jun 13 16:18	6°811'27 4°845'47 30°RY 28°Y43'16 28°Y47'35 27°Y32'00 22°Y26'02 19°Y51'14 25°Y26'28 26°Y51'13 0°8 0°II 19°I06'44	3°13'45 0.67556 AU 24°50'07	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	8559 Feb 28 21:30 8559 Mar 13 02:08 8559 Mar 20 12:39 8559 Mar 21 18:53 8559 Mar 26 00:45 8559 Mar 31 07:59 8559 Mar 31 06:01 8559 Mar 31 15:47 8559 Apr 05 11:05 8559 Apr 10 16:23 8559 Apr 21 02:33 8559 Apr 24 03:26 8559 May 06 17:01	0°Y 15°Y23'17 20°Y22'56 20°Y31'01 18°Y50'14 12°Y36'08 12°Y42'58 12°Y09'06 6°Y21'59 4°Y04'25 10°Y16'39 13°Y33'24 0°8	2°54'25 2°53'59 0.68223 AU
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	8558 Apr 06 20:28 8558 Apr 10 16:37 8558 Apr 15 01:54 8558 Apr 16 00:45 8558 Apr 15 23:28 8558 Apr 16 21:47 8558 Apr 21 06:05 8558 Apr 27 00:52 8558 May 07 06:28 8558 May 08 17:08 8558 Jun 02 06:00 8558 Jun 02 06:00 8558 Jun 13 16:18 8558 Jun 17 07:05	6°811'27 4°845'47 30°RΥ 28°Υ43'16 28°Υ47'35 27°Υ32'00 22°Υ26'02 19°Υ51'14 25°Υ26'28 26°Υ51'13 0°8 0°II 19°I06'44 25°I37'56	3°13'45 0.67556 AU 24°50'07	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	8559 Feb 28 21:30 8559 Mar 13 02:08 8559 Mar 20 12:39 8559 Mar 21 18:53 8559 Mar 26 00:45 8559 Mar 31 07:59 8559 Mar 31 06:01 8559 Mar 31 15:47 8559 Apr 05 11:05 8559 Apr 10 16:23 8559 Apr 21 02:33 8559 Apr 24 03:26 8559 May 06 17:01 8559 May 26 00:53	0°Y 15°Y23'17 20°Y22'56 20°Y31'01 18°Y50'14 12°Y36'08 12°Y42'58 12°Y09'06 6°Y21'59 4°Y04'25 10°Y16'39 13°Y33'24 0°B 0°B02'22	2°54'25 2°53'59 0.68223 AU
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	8558 Apr 06 20:28 8558 Apr 10 16:37 8558 Apr 15 01:54 8558 Apr 16 00:45 8558 Apr 15 23:28 8558 Apr 16 21:47 8558 Apr 21 06:05 8558 Apr 27 00:52 8558 May 07 06:28 8558 May 08 17:08 8558 Jun 02 06:00 8558 Jun 02 06:00 8558 Jun 13 16:18 8558 Jun 17 07:05	6°811'27 4°845'47 30°RΥ 28°Υ43'16 28°Υ47'35 27°Υ32'00 22°Υ26'02 19°Υ51'14 25°Υ26'28 26°Υ51'13 0°8 0°II 19°I06'44 25°I37'56	3°13'45 0.67556 AU 24°50'07 1.37074 AU	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	8559 Feb 28 21:30 8559 Mar 13 02:08 8559 Mar 20 12:39 8559 Mar 21 18:53 8559 Mar 26 00:45 8559 Mar 31 07:59 8559 Mar 31 06:01 8559 Mar 31 15:47 8559 Apr 05 11:05 8559 Apr 10 16:23 8559 Apr 21 02:33 8559 Apr 24 03:26 8559 May 06 17:01 8559 May 26 00:53 8559 May 26 00:19	0°Y 15°Y23'17 20°Y22'56 20°Y31'01 18°Y50'14 12°Y36'08 12°Y42'58 12°Y09'06 6°Y21'59 4°Y04'25 10°Y16'39 13°Y33'24 0°B 0°I02'22 0°I	2°54'25 2°53'59 0.68223 AU 23°20'39
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	8558 Apr 06 20:28 8558 Apr 10 16:37 8558 Apr 15 01:54 8558 Apr 16 00:45 8558 Apr 15 23:28 8558 Apr 16 21:47 8558 Apr 21 06:05 8558 Apr 27 00:52 8558 May 07 06:28 8558 May 08 17:08 8558 May 11 15:20 8558 Jun 02 06:00 8558 Jun 13 16:18 8558 Jun 17 07:05 8558 Jun 19 15:30	6°811'27 4°845'47 30°RY 28°Y43'16 28°Y47'35 27°Y32'00 22°Y26'02 19°Y51'14 25°Y26'28 26°Y51'13 0°8 0°II 19°II06'44 25°II37'56 0°S	3°13'45 0.67556 AU 24°50'07 1.37074 AU -0°54'07	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	8559 Feb 28 21:30 8559 Mar 13 02:08 8559 Mar 20 12:39 8559 Mar 21 18:53 8559 Mar 26 00:45 8559 Mar 31 07:59 8559 Mar 31 06:01 8559 Mar 31 15:47 8559 Apr 05 11:05 8559 Apr 10 16:23 8559 Apr 21 02:33 8559 Apr 24 03:26 8559 May 06 17:01 8559 May 26 00:53 8559 May 26 00:19	0°Y 15°Y23'17 20°Y22'56 20°Y31'01 18°Y50'14 12°Y36'08 12°Y42'58 12°Y09'06 6°Y21'59 4°Y04'25 10°Y16'39 13°Y33'24 0°B 0°I02'22 0°I	2°54'25 2°53'59 0.68223 AU 23°20'39
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	8558 Apr 06 20:28 8558 Apr 10 16:37 8558 Apr 15 01:54 8558 Apr 15 02:54 8558 Apr 15 23:28 8558 Apr 16 21:47 8558 Apr 27 00:52 8558 Apr 27 00:52 8558 May 07 06:28 8558 May 11 15:20 8558 Jun 02 06:00 8558 Jun 13 16:18 8558 Jun 17 07:05 8558 Jun 19 15:30	6°811'27 4°845'47 30°RY 28°Y43'16 28°Y47'35 27°Y32'00 22°Y26'02 19°Y51'14 25°Y26'28 26°Y51'13 0°8 0°II 19°II06'44 25°II37'56 0°9	3°13'45 0.67556 AU 24°50'07 1.37074 AU -0°54'07	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	8559 Feb 28 21:30 8559 Mar 13 02:08 8559 Mar 20 12:39 8559 Mar 21 18:53 8559 Mar 26 00:45 8559 Mar 31 07:59 8559 Mar 31 15:47 8559 Apr 05 11:05 8559 Apr 10 16:23 8559 Apr 21 02:33 8559 Apr 24 03:26 8559 May 06 17:01 8559 May 26 00:53 8559 May 26 00:19 8559 May 30 02:54	0°Y 15°Y23'17 20°Y22'56 20°Y31'01 18°Y50'14 12°Y36'08 12°Y42'58 12°Y09'06 6°Y21'59 4°Y04'25 10°Y16'39 13°Y33'24 0°B 0°П02'22 0°П 7°П01'24	2°54'25 2°53'59 0.68223 AU 23°20'39 1.39303 AU -1°25'24
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	8558 Apr 06 20:28 8558 Apr 10 16:37 8558 Apr 15 01:54 8558 Apr 16 00:45 8558 Apr 15 23:28 8558 Apr 16 21:47 8558 Apr 21 06:05 8558 Apr 27 00:52 8558 May 07 06:28 8558 May 11 15:20 8558 Jun 02 06:00 8558 Jun 13 16:18 8558 Jun 17 07:05 8558 Jun 19 15:30 8558 Jun 23 22:00 8558 Jun 24 01:20	6°811'27 4°845'47 30°RY 28°Y43'16 28°Y47'35 27°Y32'00 22°Y26'02 19°Y51'14 25°Y26'28 26°Y51'13 0°8 0°II 19°II06'44 25°II37'56 0°9	3°13'45 0.67556 AU 24°50'07 1.37074 AU -0°54'07	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	8559 Feb 28 21:30 8559 Mar 13 02:08 8559 Mar 20 12:39 8559 Mar 21 18:53 8559 Mar 26 00:45 8559 Mar 31 07:59 8559 Mar 31 06:01 8559 Mar 31 15:47 8559 Apr 05 11:05 8559 Apr 10 16:23 8559 Apr 21 02:33 8559 Apr 24 03:26 8559 May 06 17:01 8559 May 26 00:53 8559 May 26 00:19 8559 May 30 02:54	0°Y 15°Y23'17 20°Y22'56 20°Y31'01 18°Y50'14 12°Y36'08 12°Y42'58 12°Y09'06 6°Y21'59 4°Y04'25 10°Y16'39 13°Y33'24 0°B 0°П02'22 0°П 7°П01'24	2°54'25 2°53'59 0.68223 AU 23°20'39 1.39303 AU -1°25'24
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	8558 Apr 06 20:28 8558 Apr 10 16:37 8558 Apr 15 01:54 8558 Apr 16 00:45 8558 Apr 15 23:28 8558 Apr 16 21:47 8558 Apr 21 06:05 8558 Apr 27 00:52 8558 May 07 06:28 8558 May 11 15:20 8558 Jun 02 06:00 8558 Jun 13 16:18 8558 Jun 17 07:05 8558 Jun 19 15:30 8558 Jun 23 22:00 8558 Jun 24 01:20 8558 Jun 29 14:33	6°811'27 4°845'47 30°8° 28°°44'3'16 28°°44'35 27°°43'200 22°°426'02 19°°451'14 25°°426'28 26°°451'13 0°8 0°11 19°106'44 25°1137'56 0°9 8°921'24 8°927'46 19°930'35	3°13'45 0.67556 AU 24°50'07 1.37074 AU -0°54'07	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	8559 Feb 28 21:30 8559 Mar 13 02:08 8559 Mar 20 12:39 8559 Mar 21 18:53 8559 Mar 26 00:45 8559 Mar 31 07:59 8559 Mar 31 15:47 8559 Apr 05 11:05 8559 Apr 10 16:23 8559 Apr 21 02:33 8559 Apr 24 03:26 8559 May 06 17:01 8559 May 26 00:53 8559 May 26 00:19 8559 May 30 02:54	0°Y 15°Y23'17 20°Y22'56 20°Y31'01 18°Y50'14 12°Y36'08 12°Y42'58 12°Y09'06 6°Y21'59 4°Y04'25 10°Y16'39 13°Y33'24 0°B 0°H02'22 0°H 7°H01'24	2°54'25 2°53'59 0.68223 AU 23°20'39 1.39303 AU -1°25'24
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	8558 Apr 06 20:28 8558 Apr 10 16:37 8558 Apr 15 01:54 8558 Apr 15 01:54 8558 Apr 16 00:45 8558 Apr 15 23:28 8558 Apr 16 21:47 8558 Apr 21 06:05 8558 Apr 27 00:52 8558 May 07 06:28 8558 May 08 17:08 8558 May 11 15:20 8558 Jun 02 06:00 8558 Jun 13 16:18 8558 Jun 17 07:05 8558 Jun 19 15:30 8558 Jun 23 22:00 8558 Jun 24 01:20 8558 Jun 29 14:33 8558 Jul 02 08:37	6°811'27 4°845'47 30°RY 28°Y43'16 28°Y47'35 27°Y32'00 22°Y26'02 19°Y51'14 25°Y26'28 26°Y51'13 0°8 0°II 19°I06'44 25°I37'56 0°9 8°931'24 8°927'46 19°930'35 25°902'48 0°\$\lambda\$	3°13'45 0.67556 AU 24°50'07 1.37074 AU -0°54'07	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	8559 Feb 28 21:30 8559 Mar 13 02:08 8559 Mar 20 12:39 8559 Mar 21 18:53 8559 Mar 26 00:45 8559 Mar 31 07:59 8559 Mar 31 15:47 8559 Apr 05 11:05 8559 Apr 10 16:23 8559 Apr 21 02:33 8559 Apr 24 03:26 8559 May 26 00:53 8559 May 26 00:19 8559 May 30 02:54 8559 Jun 06 17:48 8559 Jun 06 23:03 8559 Jun 11 15:31	0°Y 15°Y23'17 20°Y22'56 20°Y31'01 18°Y50'14 12°Y36'08 12°Y42'58 12°Y09'06 6°Y21'59 4°Y04'25 10°Y16'39 13°Y33'24 0°B 0°H02'22 0°H 7°H01'24 20°H43'58 21°H08'22 0°S	2°54'25 2°53'59 0.68223 AU 23°20'39 1.39303 AU -1°25'24
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise	8558 Apr 06 20:28 8558 Apr 10 16:37 8558 Apr 15 01:54 8558 Apr 15 01:54 8558 Apr 15 03:28 8558 Apr 16 21:47 8558 Apr 21 06:05 8558 Apr 27 00:52 8558 Apr 27 00:52 8558 May 07 06:28 8558 May 11 15:20 8558 Jun 02 06:00 8558 Jun 13 16:18 8558 Jun 17 07:05 8558 Jun 19 15:30 8558 Jun 23 22:00 8558 Jun 24 01:20 8558 Jun 29 14:33 8558 Jul 02 08:37 8558 Jul 04 20:25	6°811'27 4°845'47 30°RY 28°Y43'16 28°Y47'35 27°Y32'00 22°Y26'02 19°Y51'14 25°Y26'28 26°Y51'13 0°8 0°II 19°I06'44 25°I37'56 0°9 8°931'24 8°927'46 19°930'35 25°902'48 0°\$\Omega\$	3°13'45 0.67556 AU 24°50'07 1.37074 AU -0°54'07 0°53'44	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	8559 Feb 28 21:30 8559 Mar 13 02:08 8559 Mar 20 12:39 8559 Mar 21 18:53 8559 Mar 26 00:45 8559 Mar 31 07:59 8559 Mar 31 06:01 8559 Mar 31 15:47 8559 Apr 05 11:05 8559 Apr 10 16:23 8559 Apr 21 02:33 8559 Apr 24 03:26 8559 May 06 17:01 8559 May 26 00:53 8559 May 26 00:53 8559 May 30 02:54 8559 Jun 06 17:48 8559 Jun 06 17:48 8559 Jun 06 23:03 8559 Jun 11 15:31 8559 Jun 16 04:05	0°Y 15°Y23'17 20°Y22'56 20°Y31'01 18°Y50'14 12°Y36'08 12°Y42'58 12°Y09'06 6°Y21'59 4°Y04'25 10°Y16'39 13°Y33'24 0°B 0°Π02'22 0°Π 7°Π01'24 20°Π43'58 21°Π08'22 0°© 8°©43'36	2°54'25 2°53'59 0.68223 AU 23°20'39 1.39303 AU -1°25'24
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise evening max el	8558 Apr 06 20:28 8558 Apr 10 16:37 8558 Apr 15 01:54 8558 Apr 16 00:45 8558 Apr 15 23:28 8558 Apr 16 21:47 8558 Apr 21 06:05 8558 Apr 27 00:52 8558 May 07 06:28 8558 May 08 17:08 8558 May 11 15:20 8558 Jun 02 06:00 8558 Jun 13 16:18 8558 Jun 17 07:05 8558 Jun 19 15:30 8558 Jun 23 22:00 8558 Jun 24 01:20 8558 Jun 29 14:33 8558 Jul 02 08:37 8558 Jul 04 20:25 8558 Jul 19 07:02	6°811'27 4°845'47 30°RY 28°Y43'16 28°Y47'35 27°Y32'00 22°Y26'02 19°Y51'14 25°Y26'28 26°Y51'13 0°8 0°II 19°II.06'44 25°II.37'56 0°9 8°911'24 8°927'46 19°930'35 25°902'48 0°1 22°1.42'25	3°13'45 0.67556 AU 24°50'07 1.37074 AU -0°54'07 0°53'44	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	8559 Feb 28 21:30 8559 Mar 13 02:08 8559 Mar 20 12:39 8559 Mar 21 18:53 8559 Mar 26 00:45 8559 Mar 31 07:59 8559 Mar 31 15:47 8559 Apr 05 11:05 8559 Apr 10 16:23 8559 Apr 21 02:33 8559 Apr 24 03:26 8559 May 06 17:01 8559 May 26 00:53 8559 May 26 00:53 8559 May 30 02:54 8559 Jun 06 17:48 8559 Jun 06 23:03 8559 Jun 16 15:31 8559 Jun 16 04:05 8559 Jun 16 11:35	0°Y 15°Y23'17 20°Y22'56 20°Y31'01 18°Y50'14 12°Y36'08 12°Y42'58 12°Y09'06 6°Y21'59 4°Y04'25 10°Y16'39 13°Y33'24 0°B 0°H02'22 0°H 7°H01'24 20°H43'58 21°H08'22 0°S 8°S43'36 9°S19'48	2°54'25 2°53'59 0.68223 AU 23°20'39 1.39303 AU -1°25'24
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise evening max el retrograde	8558 Apr 06 20:28 8558 Apr 10 16:37 8558 Apr 15 01:54 8558 Apr 15 01:54 8558 Apr 15 23:28 8558 Apr 16 21:47 8558 Apr 21 06:05 8558 Apr 27 00:52 8558 May 07 06:28 8558 May 08 17:08 8558 May 11 15:20 8558 Jun 02 06:00 8558 Jun 13 16:18 8558 Jun 17 07:05 8558 Jun 19 15:30 8558 Jun 23 22:00 8558 Jun 24 01:20 8558 Jun 29 14:33 8558 Jul 02 08:37 8558 Jul 04 20:25 8558 Jul 19 07:02 8558 Jul 28 19:41	6°811'27 4°845'47 30°RY 28°Y43'16 28°Y47'35 27°Y32'00 22°Y26'02 19°Y51'14 25°Y26'28 26°Y51'13 0°8 0°II 19°II06'44 25°II37'56 0°9 8°911'24 8°927'46 19°930'35 25°902'48 0°Ω 22°Ω42'25 27°Ω24'57	3°13'45 0.67556 AU 24°50'07 1.37074 AU -0°54'07 0°53'44	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	8559 Feb 28 21:30 8559 Mar 13 02:08 8559 Mar 20 12:39 8559 Mar 21 18:53 8559 Mar 26 00:45 8559 Mar 31 07:59 8559 Mar 31 06:01 8559 Mar 31 15:47 8559 Apr 05 11:05 8559 Apr 10 16:23 8559 Apr 21 02:33 8559 Apr 24 03:26 8559 May 06 17:01 8559 May 26 00:53 8559 May 26 00:19 8559 May 30 02:54 8559 Jun 06 17:48 8559 Jun 06 23:03 8559 Jun 16 04:05 8559 Jun 16 04:05 8559 Jun 16 11:35 8559 Jun 28 07:05	0°Y 15°Y23'17 20°Y22'56 20°Y31'01 18°Y50'14 12°Y36'08 12°Y42'58 12°Y09'06 6°Y21'59 4°Y04'25 10°Y16'39 13°Y33'24 0°B 0°H02'22 0°H 7°H01'24 20°H43'58 21°H08'22 0°S 8°S43'36 9°S19'48 0°R	2°54'25 2°53'59 0.68223 AU 23°20'39 1.39303 AU -1°25'24 1°24'51

evening set	8559 Jul 12 10:04	8° Ω 35'15		asc. node	8560 Jun 02 08:37	28° Ⅲ 54'17	
inferior conj	8559 Jul 20 07:37	4° Ω 10′56	0°14'22		8560 Jun 02 23:09	0 \circ \odot	
minimum elong	8559 Jul 20 08:10	4° Ω 09'55	0°14'00	evening max el	8560 Jun 14 16:16	17° 5 32'06	18°12'44
transit middle	8559 Jul 20 08:10	4° Ω 09'55	0°14'00	retrograde	8560 Jun 21 16:56	21° © 04'41	
transit begin	8559 Jul 20 06:21	4° Ω 13'19		evening set	8560 Jun 24 01:39	20° © 41'19	
transit end	8559 Jul 20 09:58	4° Ω 06'31		inferior conj	8560 Jul 01 04:00	15° © 56'14	1°38'43
desc. node	8559 Jul 21 02:43	3° £ 34′51		minimum elong	8560 Jul 01 06:47	15° © 50'06	1°37'37
min. Earth dist.	8559 Jul 23 13:50	1° Ω 44'55	0.57328 AU	min. Earth dist.	8560 Jul 04 12:58	12° © 59'45	0.59463 AU
	8559 Jul 26 05:25	30° ₹ ∽		desc. node	8560 Jul 06 23:48	11° 5 07'01	
morning rise	8559 Jul 28 02:44	28° © 59'56		morning rise	8560 Jul 08 08:53	10°9514'22	
direct	8559 Aug 02 20:13	27° 5 38'25		direct	8560 Jul 14 17:51	8° 5 21'33	
	8559 Aug 10 14:07	$0 {\circ} \Omega$		morning max el	8560 Jul 29 02:30	16° © 12'23	27°34'50
morning max el	8559 Aug 17 04:31	5° Ω 11′03	26°36'16		8560 Aug 09 09:41	$0 {\circ} \Omega$	
	8559 Sep 04 08:29	0° ™			8560 Aug 26 19:57	0° m)	
asc. node	8559 Sep 12 11:11	15° Mp 17'24		asc. node	8560 Aug 29 08:07	5° Mp 08'10	
morning set	8559 Sep 15 09:39	21° m)23'54		morning set	8560 Aug 29 16:45	5° m 53'14	
	8559 Sep 19 08:51	0∘ ⊽		max. Earth dist.	8560 Sep 05 03:02	19° m 49'05	1.31635 AU
superior conj	8559 Sep 22 07:40	6° ₽ 32'08	1°25'17	superior conj	8560 Sep 05 19:19	21° m) 19'18	1°09'32
minimum elong	8559 Sep 22 05:38	6° £ 20'49	1°25'04	minimum elong	8560 Sep 05 17:04	21° mp 06'50	1°09'09
max. Earth dist.	8559 Sep 22 16:58	7° £ 23'41	1.31755 AU		8560 Sep 09 17:25	0∘ ⊽	
evening rise	8559 Sep 29 04:32	21° Ω 30'07		evening rise	8560 Sep 12 13:15	6° Ω 07'48	
8 11	8559 Oct 03 08:13	0°M		8	8560 Sep 24 23:27	0°M	
desc. node	8559 Oct 17 01:25	23°M46'50		desc. node	8560 Oct 02 22:31	11° M 59'54	
	8559 Oct 21 11:56	0° ∡ ¹		evening max el	8560 Oct 10 22:39	21° M 11'04	26°03'40
evening max el	8559 Oct 30 00:27	9° ∡ '41'38	27°02'43	retrograde	8560 Oct 24 20:48	28° ™ 14'49	
retrograde	8559 Nov 12 22:07	16° ∡ 52'09		evening set	8560 Oct 31 06:28	26°M37'06	
evening set	8559 Nov 19 21:10	14° ∡ ⁴44'59		min. Earth dist.	8560 Nov 04 11:34	24° M 02'14	0.58560 AU
min. Earth dist.	8559 Nov 23 15:06	12° ∡ °04′03	0.60647 AU	inferior conj	8560 Nov 07 14:59	21° M 44'19	-4°54'36
inferior conj	8559 Nov 26 18:30	9° ∡ ¹25'16	-3°53'23	minimum elong	8560 Nov 07 21:55	21°MJ31'34	4°53'02
minimum elong	8559 Nov 27 01:34	9° ∡ 10′20	3°51'02	morning rise	8560 Nov 15 15:41	17° M L17'44	
morning rise	8559 Dec 04 08:23	4° ∡ ³36′15		direct	8560 Nov 17 22:17	17° M 00'37	
direct	8559 Dec 06 13:04	4° ∡ 17'13		asc. node	8560 Nov 25 07:48	20° ™ 14′08	
asc. node	8559 Dec 09 10:47	4° ∡ ¹52′03		morning max el	8560 Nov 26 04:05	21°M00'45	18°33'40
morning max el	8559 Dec 13 20:22	7° ∡ 55'59	18°00'42		05(0 D 02 00 5(0° ∡ 7	
morning max or	8339 Dec 13 20.22	1 7 33 37	10 00 42		8560 Dec 03 00:56	0 %	
morning max or	8559 Dec 28 01:44	0° る	10 00 42	morning set	8560 Dec 12 05:58	16° ∡ ¹44'43	
morning set			10 00 42	morning set			
morning set	8559 Dec 28 01:44 8559 Dec 29 11:56	0°る 2°る37'57		Ü	8560 Dec 12 05:58 8560 Dec 19 03:21	16° х ⁴44'43 0° ප	1°02'49
morning set	8559 Dec 28 01:44 8559 Dec 29 11:56 8560 Jan 08 12:56	0°る 2°る37'57 20°る54'48	0°33'02	superior conj	8560 Dec 12 05:58 8560 Dec 19 03:21 8560 Dec 21 02:22	16° 🖍 44'43 0° පි 3° පි40'44	
morning set superior conj minimum elong	8559 Dec 28 01:44 8559 Dec 29 11:56 8560 Jan 08 12:56 8560 Jan 08 15:29	0°පි 2°ප37'57 20°ප54'48 21°ප06'04		superior conj minimum elong	8560 Dec 12 05:58 8560 Dec 19 03:21 8560 Dec 21 02:22 8560 Dec 21 05:45	16° 🗷 44'43 0° පි 3° පි40'44 3° පි56'27	1°02'34
morning set	8559 Dec 28 01:44 8559 Dec 29 11:56 8560 Jan 08 12:56 8560 Jan 08 15:29 8560 Jan 13 00:33	0° ත් 2° ත්37'57 20° ත්54'48 21° ත්06'04 28° ත්41'30	0°33'02	superior conj minimum elong max. Earth dist.	8560 Dec 12 05:58 8560 Dec 19 03:21 8560 Dec 21 02:22 8560 Dec 21 05:45 8560 Dec 28 11:24	16°\$\frac{7}{44'43} 0°\$\frac{3}{40'44} 3°\$\frac{5}{56'27} 16°\$\frac{5}{58'13}	
morning set superior conj minimum elong desc. node	8559 Dec 28 01:44 8559 Dec 29 11:56 8560 Jan 08 12:56 8560 Jan 08 15:29 8560 Jan 13 00:33 8560 Jan 13 19:02	0°ට 2°ට37'57 20°ට54'48 21°ට06'04 28°ට41'30 0°≋	0°33'02 0°32'51	superior conj minimum elong max. Earth dist. desc. node	8560 Dec 12 05:58 8560 Dec 19 03:21 8560 Dec 21 02:22 8560 Dec 21 05:45 8560 Dec 28 11:24 8560 Dec 29 21:31	16°\$\times44'43 0°\$\times56'27 16°\$\times58'13 19°\$\times25'31	1°02'34
morning set superior conj minimum elong desc. node max. Earth dist.	8559 Dec 28 01:44 8559 Dec 29 11:56 8560 Jan 08 12:56 8560 Jan 08 15:29 8560 Jan 13 00:33 8560 Jan 13 19:02 8560 Jan 16 03:18	0°ට 2°ට37'57 20°ට54'48 21°ට06'04 28°ට41'30 0°≈ 3°≈56'04	0°33'02	superior conj minimum elong max. Earth dist.	8560 Dec 12 05:58 8560 Dec 19 03:21 8560 Dec 21 02:22 8560 Dec 21 05:45 8560 Dec 28 11:24 8560 Dec 29 21:31 8561 Jan 01 16:00	16°\$\frac{7}{44'43} 0°\$\frac{3}{40'44} 3°\$\frac{5}{56'27} 16°\$\frac{5}{58'13}	1°02'34
morning set superior conj minimum elong desc. node	8559 Dec 28 01:44 8559 Dec 29 11:56 8560 Jan 08 12:56 8560 Jan 08 15:29 8560 Jan 13 00:33 8560 Jan 13 19:02	0°ට 2°ට37'57 20°ට54'48 21°ට06'04 28°ට41'30 0°≋	0°33'02 0°32'51	superior conj minimum elong max. Earth dist. desc. node	8560 Dec 12 05:58 8560 Dec 19 03:21 8560 Dec 21 02:22 8560 Dec 21 05:45 8560 Dec 28 11:24 8560 Dec 29 21:31	16°\$\tilde{\$7}\\ 44'43 0°\$\tilde{\$3}\\ 3°\$\tilde{\$40'44}\\ 3°\$\tilde{\$56'27}\\ 16°\$\tilde{\$58'13}\\ 19°\$\tilde{\$25'31}\\ 24°\$\tilde{\$06'49}\end{array}	1°02'34
morning set superior conj minimum elong desc. node max. Earth dist. evening rise	8559 Dec 28 01:44 8559 Dec 29 11:56 8560 Jan 08 12:56 8560 Jan 08 15:29 8560 Jan 13 00:33 8560 Jan 13 19:02 8560 Jan 16 03:18 8560 Jan 21 19:02 8560 Feb 01 18:18	0°る 2°る37'57 20°る54'48 21°る06'04 28°る41'30 0°≈ 3°≈56'04 13°≈08'25 0°升	0°33'02 0°32'51 1.42177 AU	superior conj minimum elong max. Earth dist. desc. node evening rise	8560 Dec 12 05:58 8560 Dec 19 03:21 8560 Dec 21 02:22 8560 Dec 21 05:45 8560 Dec 28 11:24 8560 Dec 29 21:31 8561 Jan 01 16:00 8561 Jan 05 06:00 8561 Jan 25 14:33	16°ダ44'43 0°उ 3°उ40'44 3°उ56'27 16°उ58'13 19°उ25'31 24°उ06'49 0°≈	1°02'34 1.40111 AU
morning set superior conj minimum elong desc. node max. Earth dist.	8559 Dec 28 01:44 8559 Dec 29 11:56 8560 Jan 08 12:56 8560 Jan 08 15:29 8560 Jan 13 00:33 8560 Jan 13 19:02 8560 Jan 16 03:18 8560 Jan 21 19:02	0°G 2°G37'57 20°G54'48 21°G06'04 28°G41'30 0°ක 3°≈56'04 13°≈08'25	0°33'02 0°32'51 1.42177 AU	superior conj minimum elong max. Earth dist. desc. node evening rise	8560 Dec 12 05:58 8560 Dec 19 03:21 8560 Dec 21 02:22 8560 Dec 21 05:45 8560 Dec 28 11:24 8560 Dec 29 21:31 8561 Jan 01 16:00 8561 Jan 05 06:00	16°ダ44'43 0°5 3°540'44 3°556'27 16°558'13 19°525'31 24°506'49 0°≈ 0°);	1°02'34 1.40111 AU
morning set superior conj minimum elong desc. node max. Earth dist. evening rise	8559 Dec 28 01:44 8559 Dec 29 11:56 8560 Jan 08 12:56 8560 Jan 08 15:29 8560 Jan 13 00:33 8560 Jan 13 19:02 8560 Jan 16 03:18 8560 Jan 21 19:02 8560 Feb 01 18:18 8560 Feb 23 19:58	0°る 2°る37'57 20°る54'48 21°る06'04 28°る41'30 0°≈ 3°≈56'04 13°≈08'25 0°升 29°升05'10	0°33'02 0°32'51 1.42177 AU	superior conj minimum elong max. Earth dist. desc. node evening rise	8560 Dec 12 05:58 8560 Dec 19 03:21 8560 Dec 21 02:22 8560 Dec 21 05:45 8560 Dec 28 11:24 8560 Dec 29 21:31 8561 Jan 01 16:00 8561 Jan 05 06:00 8561 Jan 25 14:33 8561 Feb 05 10:35	16°ダ44'43 0°る 3°る40'44 3°る56'27 16°る58'13 19°る25'31 24°る06'49 0°≈ 0°升 12°升50'22	1°02'34 1.40111 AU
morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el	8559 Dec 28 01:44 8559 Dec 29 11:56 8560 Jan 08 12:56 8560 Jan 08 15:29 8560 Jan 13 00:33 8560 Jan 13 19:02 8560 Jan 16 03:18 8560 Jan 21 19:02 8560 Feb 01 18:18 8560 Feb 23 19:58 8560 Feb 24 18:20	0°る 2°る37'57 20°る54'48 21°る06'04 28°る41'30 0°≈ 3°≈56'04 13°≈08'25 0°升 29°升05'10 0°°	0°33'02 0°32'51 1.42177 AU	superior conj minimum elong max. Earth dist. desc. node evening rise	8560 Dec 12 05:58 8560 Dec 19 03:21 8560 Dec 21 02:22 8560 Dec 21 05:45 8560 Dec 28 11:24 8560 Dec 29 21:31 8561 Jan 01 16:00 8561 Jan 05 06:00 8561 Jan 25 14:33 8561 Feb 05 10:35 8561 Feb 16 09:04	16° ₹44'43 0°る 3°る40'44 3°る56'27 16°る58'13 19°る25'31 24°る06'49 0°≈ 0°升 12°升50'22 19°升16'43	1°02'34 1.40111 AU
morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde	8559 Dec 28 01:44 8559 Dec 29 11:56 8560 Jan 08 12:56 8560 Jan 08 15:29 8560 Jan 13 00:33 8560 Jan 13 19:02 8560 Jan 16 03:18 8560 Jan 21 19:02 8560 Feb 01 18:18 8560 Feb 23 19:58 8560 Feb 24 18:20 8560 Mar 04 15:32	0°る 2°る37'57 20°る54'48 21°る06'04 28°る41'30 0°≈ 3°≈56'04 13°≈08'25 0°¥ 29°¥05'10 0°° 4°°¥54'11	0°33'02 0°32'51 1.42177 AU	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node	8560 Dec 12 05:58 8560 Dec 19 03:21 8560 Dec 21 02:22 8560 Dec 21 05:45 8560 Dec 28 11:24 8560 Dec 29 21:31 8561 Jan 01 16:00 8561 Jan 05 06:00 8561 Jan 25 14:33 8561 Feb 05 10:35 8561 Feb 16 09:04 8561 Feb 21 06:52	16° ₹44'43 0° る 3° る40'44 3° る56'27 16° る58'13 19° る25'31 24° る06'49 0° ※ 0° 米 12° 升50'22 19° 升16'43 17° 升21'22	1°02'34 1.40111 AU
morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node	8559 Dec 28 01:44 8559 Dec 29 11:56 8560 Jan 08 12:56 8560 Jan 08 15:29 8560 Jan 13 00:33 8560 Jan 13 19:02 8560 Jan 16 03:18 8560 Jan 21 19:02 8560 Feb 01 18:18 8560 Feb 23 19:58 8560 Feb 24 18:20 8560 Mar 04 15:32 8560 Mar 06 09:46	0°5 2°537'57 20°554'48 21°506'04 28°541'30 0°≈ 3°≈56'04 13°≈08'25 0°¥ 29°¥05'10 0°° 4°°7'54'11 4°°7'38'37	0°33'02 0°32'51 1.42177 AU	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set	8560 Dec 12 05:58 8560 Dec 19 03:21 8560 Dec 21 02:22 8560 Dec 21 05:45 8560 Dec 28 11:24 8560 Dec 29 21:31 8561 Jan 01 16:00 8561 Jan 05 06:00 8561 Jan 25 14:33 8561 Feb 05 10:35 8561 Feb 16 09:04 8561 Feb 21 06:52 8561 Feb 21 14:03	16° ₹44'43 0° る 3° る40'44 3° る56'27 16° る58'13 19° る25'31 24° る06'49 0° ※ 0° 米 12° 米50'22 19° 米16'43 17° 米21'22 17° 米06'31	1°02'34 1.40111 AU 23°50'42
morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node	8559 Dec 28 01:44 8559 Dec 29 11:56 8560 Jan 08 12:56 8560 Jan 08 15:29 8560 Jan 13 00:33 8560 Jan 13 19:02 8560 Jan 16 03:18 8560 Jan 21 19:02 8560 Feb 01 18:18 8560 Feb 23 19:58 8560 Feb 24 18:20 8560 Mar 04 15:32 8560 Mar 06 09:46 8560 Mar 09 08:24	0°5 2°537'57 20°554'48 21°506'04 28°541'30 0°≈ 3°≈56'04 13°≈08'25 0°¥ 29°¥05'10 0°° 4°°¥54'11 4°°¥38'37 2°°¥58'22	0°33'02 0°32'51 1.42177 AU	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist.	8560 Dec 12 05:58 8560 Dec 19 03:21 8560 Dec 21 02:22 8560 Dec 21 05:45 8560 Dec 28 11:24 8560 Dec 29 21:31 8561 Jan 01 16:00 8561 Jan 05 06:00 8561 Jan 25 14:33 8561 Feb 05 10:35 8561 Feb 16 09:04 8561 Feb 21 06:52 8561 Feb 21 14:03 8561 Feb 26 08:43	16°ダ44'43 0°弓 3°弓40'44 3°弓56'27 16°弓58'13 19°弓25'31 24°弓06'49 0°≈ 0°光 12°米50'22 19°米16'43 17°光21'22 17°米06'31 11°米34'04	1°02'34 1.40111 AU 23°50'42 0.68271 AU
morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set	8559 Dec 28 01:44 8559 Dec 29 11:56 8560 Jan 08 12:56 8560 Jan 08 15:29 8560 Jan 13 00:33 8560 Jan 13 19:02 8560 Jan 16 03:18 8560 Jan 21 19:02 8560 Feb 01 18:18 8560 Feb 23 19:58 8560 Feb 24 18:20 8560 Mar 04 15:32 8560 Mar 06 09:46 8560 Mar 09 08:24 8560 Mar 12 03:51	0°♂ 2°♂37'57 20°♂54'48 21°♂06'04 28°♂41'30 0°≈ 3°≈56'04 13°≈08'25 0°¥ 29°¥05'10 0°° 4°°¥54'11 4°°¥38'37 2°°¥58'22 30°°₹¥	0°33'02 0°32'51 1.42177 AU 22°30'29	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj	8560 Dec 12 05:58 8560 Dec 19 03:21 8560 Dec 21 02:22 8560 Dec 21 05:45 8560 Dec 28 11:24 8560 Dec 29 21:31 8561 Jan 01 16:00 8561 Jan 05 06:00 8561 Jan 25 14:33 8561 Feb 05 10:35 8561 Feb 16 09:04 8561 Feb 21 06:52 8561 Feb 21 14:03 8561 Feb 26 08:43 8561 Feb 27 00:56	16°ダ44'43 0°弓 3°弓40'44 3°弓56'27 16°弓58'13 19°弓25'31 24°弓06'49 0°≈ 0°光 12°光50'22 19°光16'43 17°光21'22 17°光06'31 11°光34'04 10°米38'51	1°02'34 1.40111 AU 23°50'42 0.68271 AU 1°47'12
morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj	8559 Dec 28 01:44 8559 Dec 29 11:56 8560 Jan 08 12:56 8560 Jan 08 15:29 8560 Jan 13 00:33 8560 Jan 13 19:02 8560 Jan 16 03:18 8560 Jan 21 19:02 8560 Feb 01 18:18 8560 Feb 23 19:58 8560 Feb 24 18:20 8560 Mar 04 15:32 8560 Mar 06 09:46 8560 Mar 09 08:24 8560 Mar 12 03:51 8560 Mar 14 16:40	0°♂ 2°♂37'57 20°♂54'48 21°♂06'04 28°♂41'30 0°≈ 3°≈56'04 13°≈08'25 0°¥ 29°¥05'10 0°° 4°°¥54'11 4°°¥38'37 2°°¥58'22 30°°₹ 26°`¥35'40	0°33'02 0°32'51 1.42177 AU 22°30'29	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong	8560 Dec 12 05:58 8560 Dec 19 03:21 8560 Dec 21 02:22 8560 Dec 21 05:45 8560 Dec 28 11:24 8560 Dec 29 21:31 8561 Jan 01 16:00 8561 Jan 05 06:00 8561 Jan 25 14:33 8561 Feb 05 10:35 8561 Feb 16 09:04 8561 Feb 21 06:52 8561 Feb 21 14:03 8561 Feb 26 08:43 8561 Feb 27 00:56 8561 Feb 26 22:52	16°ダ44'43 0°G 3°G40'44 3°G56'27 16°G58'13 19°G25'31 24°G06'49 0°≈ 0°米 12°¥50'22 19°¥16'43 17°¥21'22 17°¥06'31 11°¥34'04 10°¥38'51 10°¥45'55	1°02'34 1.40111 AU 23°50'42 0.68271 AU 1°47'12
morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong	8559 Dec 28 01:44 8559 Dec 29 11:56 8560 Jan 08 12:56 8560 Jan 08 15:29 8560 Jan 13 00:33 8560 Jan 13 19:02 8560 Jan 16 03:18 8560 Jan 21 19:02 8560 Feb 01 18:18 8560 Feb 23 19:58 8560 Feb 24 18:20 8560 Mar 04 15:32 8560 Mar 06 09:46 8560 Mar 09 08:24 8560 Mar 12 03:51 8560 Mar 14 16:40 8560 Mar 14 16:40	0°♂ 2°♂37'57 20°♂54'48 21°♂06'04 28°♂41'30 0°≈ 3°≈56'04 13°≈08'25 0°¥ 29°¥05'10 0°° 4°°¥54'11 4°°¥38'37 2°°¥58'22 30°°₹ 26°¥35'40 26°¥43'29	0°33'02 0°32'51 1.42177 AU 22°30'29 2°25'13 2°24'37	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise	8560 Dec 12 05:58 8560 Dec 19 03:21 8560 Dec 21 02:22 8560 Dec 21 05:45 8560 Dec 28 11:24 8560 Dec 29 21:31 8561 Jan 01 16:00 8561 Jan 05 06:00 8561 Jan 25 14:33 8561 Feb 05 10:35 8561 Feb 16 09:04 8561 Feb 21 06:52 8561 Feb 21 14:03 8561 Feb 21 06:52 8561 Feb 27 00:56 8561 Feb 26 22:52 8561 Mar 04 07:40	16° ₹44'43 0° ♂ 3° ♂40'44 3° ♂56'27 16° ♂58'13 19° ♂25'31 24° ♂06'49 0° ※ 0° ¥ 12° ¥50'22 19° ¥16'43 17° ¥21'22 17° ¥06'31 11° ¥34'04 10° ¥38'51 10° ¥45'55 4° ¥35'24	1°02'34 1.40111 AU 23°50'42 0.68271 AU 1°47'12
morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	8559 Dec 28 01:44 8559 Dec 29 11:56 8560 Jan 08 12:56 8560 Jan 08 15:29 8560 Jan 13 00:33 8560 Jan 13 19:02 8560 Jan 16 03:18 8560 Jan 21 19:02 8560 Feb 01 18:18 8560 Feb 23 19:58 8560 Feb 24 18:20 8560 Mar 04 15:32 8560 Mar 06 09:46 8560 Mar 09 08:24 8560 Mar 12 03:51 8560 Mar 14 16:40 8560 Mar 14 14:26 8560 Mar 14 12:10	0°♂ 2°♂ 37'57 20°♂ 54'48 21°♂ 60'04 28°♂ 41'30 0°≈ 3°≈ 56'04 13°≈ 08'25 0° ¥ 29° ¥ 05'10 0° Ŷ 4° Ŷ 54'11 4° Ŷ 38'37 2° Ŷ 58'22 30° ₹ ¥ 26° ¥ 43'29 26° ¥ 51'21 20° ¥ 26'10 18° ¥ 29'48	0°33'02 0°32'51 1.42177 AU 22°30'29 2°25'13 2°24'37 0.68455 AU	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	8560 Dec 12 05:58 8560 Dec 19 03:21 8560 Dec 21 02:22 8560 Dec 21 05:45 8560 Dec 28 11:24 8560 Dec 29 21:31 8561 Jan 01 16:00 8561 Jan 05 06:00 8561 Jan 25 14:33 8561 Feb 05 10:35 8561 Feb 16 09:04 8561 Feb 21 06:52 8561 Feb 21 14:03 8561 Feb 26 08:43 8561 Feb 27 00:56 8561 Feb 26 22:52 8561 Mar 04 07:40 8561 Mar 08 09:33	16° ₹44'43 0° る 3° る40'44 3° る56'27 16° る58'13 19° る25'31 24° る06'49 0° ※ 0° 米 12° 米50'22 19° 米16'43 17° 米21'22 17° 米06'31 11° 米34'04 10° 米38'51 10° 米45'55 4° 米35'24 3° 米01'29 7° 米35'04 22° 米01'10	1°02'34 1.40111 AU 23°50'42 0.68271 AU 1°47'12 1°46'34
morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise	8559 Dec 28 01:44 8559 Dec 29 11:56 8560 Jan 08 12:56 8560 Jan 08 15:29 8560 Jan 13 00:33 8560 Jan 13 19:02 8560 Jan 16 03:18 8560 Jan 21 19:02 8560 Feb 01 18:18 8560 Feb 23 19:58 8560 Feb 24 18:20 8560 Mar 04 15:32 8560 Mar 06 09:46 8560 Mar 09 08:24 8560 Mar 12 03:51 8560 Mar 14 16:40 8560 Mar 14 12:10 8560 Mar 19 20:18	0°♂ 2°♂ 37'57 20°♂ 54'48 21°♂ 606'04 28°♂ 41'30 0°≈ 3°≈ 56'04 13°≈ 08'25 0° ¥ 29° ¥ 05'10 0° Ŷ 4° Ŷ 54'11 4° Ŷ 38'37 2° Ŷ 58'22 30° R ¥ 26° ¥ 35'40 26° ¥ 43'29 26° ¥ 51'21 20° ¥ 26'10 18° ¥ 29'48 23° ¥ 49'57	0°33'02 0°32'51 1.42177 AU 22°30'29 2°25'13 2°24'37 0.68455 AU	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	8560 Dec 12 05:58 8560 Dec 19 03:21 8560 Dec 21 02:22 8560 Dec 21 05:45 8560 Dec 28 11:24 8560 Dec 29 21:31 8561 Jan 01 16:00 8561 Jan 05 06:00 8561 Jan 25 14:33 8561 Feb 05 10:35 8561 Feb 16 09:04 8561 Feb 21 06:52 8561 Feb 21 14:03 8561 Feb 26 08:43 8561 Feb 27 00:56 8561 Feb 26 22:52 8561 Mar 04 07:40 8561 Mar 08 09:33 8561 Mar 16 09:48	16°ダ44'43 0°G 3°G40'44 3°G56'27 16°G58'13 19°G25'31 24°G06'49 0°≈ 0°¥ 12°¥50'22 19°¥16'43 17°¥21'22 17°¥06'31 11°¥34'04 10°¥38'51 10°¥45'55 4°¥35'24 3°¥01'29 7°¥35'04	1°02'34 1.40111 AU 23°50'42 0.68271 AU 1°47'12 1°46'34
morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	8559 Dec 28 01:44 8559 Dec 29 11:56 8560 Jan 08 12:56 8560 Jan 08 15:29 8560 Jan 13 00:33 8560 Jan 13 19:02 8560 Jan 16 03:18 8560 Jan 21 19:02 8560 Feb 01 18:18 8560 Feb 23 19:58 8560 Feb 24 18:20 8560 Mar 04 15:32 8560 Mar 06 09:46 8560 Mar 09 08:24 8560 Mar 12 03:51 8560 Mar 14 16:40 8560 Mar 14 12:10 8560 Mar 19 20:18 8560 Mar 24 11:42	0°♂ 2°♂ 37'57 20°♂ 54'48 21°♂ 606'04 28°♂ 41'30 0°≈ 3°≈ 56'04 13°≈ 08'25 0° ¥ 29° ¥ 05'10 0° ♀ 4° ♀ 54'11 4° ♀ 38'37 2° ♀ 58'22 30° ₹ ¥ 26° ₭ 35'40 26° ₭ 35'40 26° ₭ 51'21 20° ₭ 26'10 18° ₭ 29'48 23° ₭ 49'57 0° ♀	0°33'02 0°32'51 1.42177 AU 22°30'29 2°25'13 2°24'37 0.68455 AU	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	8560 Dec 12 05:58 8560 Dec 19 03:21 8560 Dec 21 02:22 8560 Dec 21 05:45 8560 Dec 28 11:24 8560 Dec 29 21:31 8561 Jan 01 16:00 8561 Jan 05 06:00 8561 Jan 25 14:33 8561 Feb 05 10:35 8561 Feb 16 09:04 8561 Feb 21 06:52 8561 Feb 21 14:03 8561 Feb 26 08:43 8561 Feb 27 00:56 8561 Feb 26 22:52 8561 Mar 04 07:40 8561 Mar 08 09:33 8561 Mar 16 09:48 8561 Mar 27 21:17	16° ₹44'43 0°る 3°る40'44 3°る56'27 16°る58'13 19°る25'31 24°る06'49 0°≈ 0° ₭ 12° ₭50'22 19° ₭16'43 17° ₭21'22 17° ₭06'31 11° ₭34'04 10° ₭38'51 10° ₭45'55 4° ₭35'24 3° ₭01'29 7° ₭35'04 22° ₭01'10 0° ❤ 18° ❤ 17'51	1°02'34 1.40111 AU 23°50'42 0.68271 AU 1°47'12 1°46'34
morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	8559 Dec 28 01:44 8559 Dec 29 11:56 8560 Jan 08 12:56 8560 Jan 08 15:29 8560 Jan 13 00:33 8560 Jan 13 19:02 8560 Jan 16 03:18 8560 Jan 21 19:02 8560 Feb 01 18:18 8560 Feb 23 19:58 8560 Feb 24 18:20 8560 Mar 04 15:32 8560 Mar 06 09:46 8560 Mar 09 08:24 8560 Mar 12 03:51 8560 Mar 14 16:40 8560 Mar 14 12:10 8560 Mar 19 20:18 8560 Mar 24 11:42 8560 Apr 02 14:56	0°♂ 2°♂ 37'57 20°♂ 54'48 21°♂ 6'04 28°♂ 41'30 0°≈ 3°≈ 56'04 13°≈ 08'25 0°	0°33'02 0°32'51 1.42177 AU 22°30'29 2°25'13 2°24'37 0.68455 AU	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	8560 Dec 12 05:58 8560 Dec 19 03:21 8560 Dec 21 02:22 8560 Dec 21 05:45 8560 Dec 28 11:24 8560 Dec 29 21:31 8561 Jan 01 16:00 8561 Jan 05 06:00 8561 Jan 25 14:33 8561 Feb 05 10:35 8561 Feb 16 09:04 8561 Feb 21 06:52 8561 Feb 21 14:03 8561 Feb 26 08:43 8561 Feb 27 00:56 8561 Feb 26 22:52 8561 Mar 04 07:40 8561 Mar 08 09:33 8561 Mar 16 09:48 8561 Mar 27 21:17 8561 Apr 02 09:37	16° ₹44'43 0°る 3°る40'44 3°る56'27 16°る58'13 19°る25'31 24°る06'49 0°≈ 0° ₭ 12° ₭50'22 19° ₭16'43 17° ₭21'22 17° ₭06'31 11° ₭34'04 10° ₭38'51 10° ₭45'55 4° ₭35'24 3° ₭01'29 7° ₭35'04 22° ₭01'10 0° ℃	1°02'34 1.40111 AU 23°50'42 0.68271 AU 1°47'12 1°46'34
morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	8559 Dec 28 01:44 8559 Dec 29 11:56 8560 Jan 08 12:56 8560 Jan 08 15:29 8560 Jan 13 00:33 8560 Jan 13 19:02 8560 Jan 16 03:18 8560 Jan 21 19:02 8560 Feb 01 18:18 8560 Feb 23 19:58 8560 Feb 24 18:20 8560 Mar 04 15:32 8560 Mar 06 09:46 8560 Mar 09 08:24 8560 Mar 12 03:51 8560 Mar 14 16:40 8560 Mar 14 12:10 8560 Mar 14 12:10 8560 Mar 19 20:18 8560 Mar 24 11:42 8560 Apr 02 14:56 8560 Apr 08 01:19 8560 Apr 10 00:22 8560 Apr 29 02:17	0°♂ 2°♂37'57 20°♂54'48 21°♂06'04 28°♂41'30 0°≈ 3°≈56'04 13°≈08'25 0°∀ 29°₩05'10 0°♥ 4°♥54'11 4°♥38'37 2°♥58'22 30°₹₩ 26°₩35'40 26°₩43'29 26°₩51'21 20°₩26'10 18°₩29'48 23°₩49'57 0°♥ 2°♥29'26 0°♥	0°33'02 0°32'51 1.42177 AU 22°30'29 2°25'13 2°24'37 0.68455 AU	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	8560 Dec 12 05:58 8560 Dec 19 03:21 8560 Dec 21 02:22 8560 Dec 21 05:45 8560 Dec 28 11:24 8560 Dec 29 21:31 8561 Jan 01 16:00 8561 Jan 05 06:00 8561 Jan 25 14:33 8561 Feb 05 10:35 8561 Feb 16 09:04 8561 Feb 21 06:52 8561 Feb 21 14:03 8561 Feb 26 08:43 8561 Feb 27 00:56 8561 Feb 26 22:52 8561 Mar 04 07:40 8561 Mar 08 09:33 8561 Mar 16 09:48 8561 Mar 27 21:17 8561 Apr 02 09:37 8561 Apr 14 11:28	16° ₹44'43 0°る 3°る40'44 3°る56'27 16°る58'13 19°る25'31 24°る06'49 0°≈ 0° ₭ 12° ₭50'22 19° ₭16'43 17° ₭21'22 17° ₭06'31 11° ₭34'04 10° ₭38'51 10° ₭45'55 4° ₭35'24 3° ₭01'29 7° ₭35'04 22° ₭01'10 0° ❤ 18° ❤ 17'51 0° ₭	1°02'34 1.40111 AU 23°50'42 0.68271 AU 1°47'12 1°46'34
morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	8559 Dec 28 01:44 8559 Dec 29 11:56 8560 Jan 08 12:56 8560 Jan 08 15:29 8560 Jan 13 00:33 8560 Jan 13 19:02 8560 Jan 16 03:18 8560 Jan 21 19:02 8560 Feb 01 18:18 8560 Feb 23 19:58 8560 Feb 24 18:20 8560 Mar 04 15:32 8560 Mar 06 09:46 8560 Mar 09 08:24 8560 Mar 12 03:51 8560 Mar 14 16:40 8560 Mar 14 12:10 8560 Mar 14 12:10 8560 Mar 19 20:18 8560 Mar 24 11:42 8560 Apr 02 14:56 8560 Apr 08 01:19 8560 Apr 10 00:22 8560 Mar 29 02:17 8560 May 05 06:17	0°♂ 2°♂37'57 20°♂54'48 21°♂06'04 28°♂41'30 0°≈ 3°≈56'04 13°≈08'25 0°¥ 29°¥05'10 0°Y 4°Y54'11 4°Y38'37 2°Y58'22 30°R¥ 26°¥35'40 26°¥43'29 26°¥51'21 20°¥26'10 18°¥29'48 23°¥49'57 0°Y 2°Y29'26 0°℧ 9°℧41'57	0°33'02 0°32'51 1.42177 AU 22°30'29 2°25'13 2°24'37 0.68455 AU 21°52'48	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set	8560 Dec 12 05:58 8560 Dec 19 03:21 8560 Dec 21 02:22 8560 Dec 21 05:45 8560 Dec 28 11:24 8560 Dec 29 21:31 8561 Jan 01 16:00 8561 Jan 05 06:00 8561 Jan 25 14:33 8561 Feb 05 10:35 8561 Feb 16 09:04 8561 Feb 21 06:52 8561 Feb 21 14:03 8561 Feb 26 08:43 8561 Feb 27 00:56 8561 Feb 26 22:52 8561 Mar 04 07:40 8561 Mar 08 09:33 8561 Mar 16 09:48 8561 Mar 27 21:17 8561 Apr 02 09:37 8561 Apr 14 11:28 8561 Apr 21 21:41 8561 Apr 23 08:52	16° ₹44'43 0° ♂ 3° ♂40'44 3° ♂56'27 16° ♂58'13 19° ♂25'31 24° ♂06'49 0° ※ 0° ¥ 12° ¥50'22 19° ¥16'43 17° ¥21'22 17° ¥06'31 11° ¥38'51 10° ¥45'55 4° ¥35'24 3° ¥01'29 7° ¥35'04 22° ¥01'10 0° ❤ 18° ♥17'51 0° ♥ 2° ♥21'20	1°02'34 1.40111 AU 23°50'42 0.68271 AU 1°47'12 1°46'34 20°33'55
morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	8559 Dec 28 01:44 8559 Dec 29 11:56 8560 Jan 08 12:56 8560 Jan 08 15:29 8560 Jan 13 00:33 8560 Jan 13 19:02 8560 Jan 16 03:18 8560 Jan 21 19:02 8560 Feb 01 18:18 8560 Feb 23 19:58 8560 Feb 24 18:20 8560 Mar 04 15:32 8560 Mar 06 09:46 8560 Mar 09 08:24 8560 Mar 12 03:51 8560 Mar 14 16:40 8560 Mar 14 16:40 8560 Mar 14 12:10 8560 Mar 19 20:18 8560 Mar 24 11:42 8560 Apr 02 14:56 8560 Apr 08 01:19 8560 Apr 10 00:22 8560 May 05 06:17 8560 May 11 02:07	0°♂ 2°♂37'57 20°♂54'48 21°♂06'04 28°♂41'30 0°≈ 3°≈56'04 13°≈08'25 0°₩ 29°₩05'10 0°Ψ 4°Ψ54'11 4°Ψ38'37 2°Ψ58'22 30°₹₩ 26°₩35'40 26°₩43'29 26°₩51'21 20°₩26'10 18°₩29'48 23°₩49'57 0°Ψ 2°Ψ29'26 0°₩ 9°₩41'57 19°₩13'03	0°33'02 0°32'51 1.42177 AU 22°30'29 2°25'13 2°24'37 0.68455 AU	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	8560 Dec 12 05:58 8560 Dec 19 03:21 8560 Dec 21 02:22 8560 Dec 21 05:45 8560 Dec 28 11:24 8560 Dec 29 21:31 8561 Jan 01 16:00 8561 Jan 05 06:00 8561 Jan 25 14:33 8561 Feb 05 10:35 8561 Feb 16 09:04 8561 Feb 21 06:52 8561 Feb 21 14:03 8561 Feb 26 08:43 8561 Feb 27 00:56 8561 Feb 26 22:52 8561 Mar 04 07:40 8561 Mar 08 09:33 8561 Mar 16 09:48 8561 Mar 27 21:17 8561 Apr 02 09:37 8561 Apr 14 11:28 8561 Apr 21 21:41 8561 Apr 29 21:00	16° ₹44'43 0° ♂ 3° ♂40'44 3° ♂56'27 16° ♂58'13 19° ♂25'31 24° ♂06'49 0° ≈ 0° ℋ 12° ℋ50'22 19° ℋ16'43 17° ℋ21'22 17° ℋ06'31 11° ℋ38'51 10° ℋ45'55 4° ℋ35'24 3° ℋ01'29 7° ℋ35'04 22° ℋ01'10 0° ❤ 18° ❤17'51 0° ੴ 2° ❸21'20	1°02'34 1.40111 AU 23°50'42 0.68271 AU 1°47'12 1°46'34 20°33'55
morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set	8559 Dec 28 01:44 8559 Dec 29 11:56 8560 Jan 08 12:56 8560 Jan 08 15:29 8560 Jan 13 00:33 8560 Jan 13 19:02 8560 Jan 16 03:18 8560 Jan 21 19:02 8560 Feb 01 18:18 8560 Feb 23 19:58 8560 Feb 24 18:20 8560 Mar 04 15:32 8560 Mar 06 09:46 8560 Mar 09 08:24 8560 Mar 12 03:51 8560 Mar 14 16:40 8560 Mar 14 12:10 8560 Mar 14 12:10 8560 Mar 19 20:18 8560 Mar 24 11:42 8560 Apr 02 14:56 8560 Apr 08 01:19 8560 Apr 10 00:22 8560 Mar 29 02:17 8560 May 05 06:17	0°♂ 2°♂37'57 20°♂54'48 21°♂06'04 28°♂41'30 0°≈ 3°≈56'04 13°≈08'25 0°¥ 29°¥05'10 0°Y 4°Y54'11 4°Y38'37 2°Y58'22 30°R¥ 26°¥35'40 26°¥43'29 26°¥51'21 20°¥26'10 18°¥29'48 23°¥49'57 0°Y 2°Y29'26 0°℧ 9°℧41'57	0°33'02 0°32'51 1.42177 AU 22°30'29 2°25'13 2°24'37 0.68455 AU 21°52'48	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	8560 Dec 12 05:58 8560 Dec 19 03:21 8560 Dec 21 02:22 8560 Dec 21 05:45 8560 Dec 22 105:45 8560 Dec 28 11:24 8560 Dec 29 21:31 8561 Jan 01 16:00 8561 Jan 05 06:00 8561 Jan 25 14:33 8561 Feb 05 10:35 8561 Feb 16 09:04 8561 Feb 21 06:52 8561 Feb 21 14:03 8561 Feb 26 08:43 8561 Feb 27 00:56 8561 Feb 26 22:52 8561 Mar 04 07:40 8561 Mar 08 09:33 8561 Mar 16 09:48 8561 Mar 27 21:17 8561 Apr 02 09:37 8561 Apr 14 11:28 8561 Apr 21 21:41 8561 Apr 23 08:52 8561 Apr 29 21:00 8561 Apr 30 00:15	16° ₹44'43 0° ♂ 3° ♂40'44 3° ♂56'27 16° ♂58'13 19° ♂25'31 24° ♂06'49 0° ≈ 0° ₭ 12° ₭50'22 19° ₭16'43 17° ₭21'22 17° ₭06'31 11° ₭34'04 10° ₭38'51 10° ₭45'55 4° ₭35'24 3° ₭01'29 7° ₭35'04 22° ₭01'10 0° ❤ 18° ❤17'51 0° ੴ 2° ❸21'20	1°02'34 1.40111 AU 23°50'42 0.68271 AU 1°47'12 1°46'34 20°33'55
morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	8559 Dec 28 01:44 8559 Dec 29 11:56 8560 Jan 08 12:56 8560 Jan 08 15:29 8560 Jan 13 00:33 8560 Jan 13 19:02 8560 Jan 16 03:18 8560 Jan 17 19:02 8560 Jan 18:18 8560 Jan 18:18 8560 Feb 18:18 8560 Feb 18:20 8560 Mar 04 15:32 8560 Mar 04 15:32 8560 Mar 04 15:32 8560 Mar 05:46 8560 Mar 12 03:51 8560 Mar 14 16:40 8560 Mar 14 16:40 8560 Mar 14 12:10 8560 Mar 14 12:10 8560 Mar 15 20:18 8560 Mar 16 20:18 8560 Mar 17 20:18 8560 Mar 18 8560 Mar 19 20:18 8560 Mar 19 20:17 8560 Mar 19 00:22 8560 Mar 19 00:22 8560 Mar 19 00:27 8560 May 17 10:05	0°♂ 2°♂37'57 20°♂54'48 21°♂06'04 28°♂41'30 0°≈ 3°≈56'04 13°≈08'25 0°¥ 29°¥05'10 0°° 4°°Y54'11 4°°Y38'37 2°°Y58'22 30°R¥ 26°¥35'40 26°¥43'29 26°¥51'21 20°¥26'10 18°¥29'48 23°¥49'57 0°°Y 2°°Y29'26 0°♂ 9°♂41'57 19°♂13'03 0°Ⅱ	0°33'02 0°32'51 1.42177 AU 22°30'29 2°25'13 2°24'37 0.68455 AU 21°52'48	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	8560 Dec 12 05:58 8560 Dec 19 03:21 8560 Dec 21 02:22 8560 Dec 21 05:45 8560 Dec 22 05:45 8560 Dec 28 11:24 8560 Dec 29 21:31 8561 Jan 01 16:00 8561 Jan 05 06:00 8561 Jan 25 14:33 8561 Feb 05 10:35 8561 Feb 16 09:04 8561 Feb 21 06:52 8561 Feb 21 14:03 8561 Feb 21 14:03 8561 Feb 26 08:43 8561 Feb 27 00:56 8561 Feb 26 22:52 8561 Mar 04 07:40 8561 Mar 08 09:33 8561 Mar 16 09:48 8561 Mar 27 21:17 8561 Apr 02 09:37 8561 Apr 14 11:28 8561 Apr 21 21:41 8561 Apr 23 08:52 8561 Apr 29 21:00 8561 Apr 30 00:15 8561 May 09 19:02	16° \$744'43 0° で 3° では、44'43 0° で 3° では、44'44 3° では、56'27 16° では、58'13 19° では、58'13 19° では、49 0° ※ 0° 光 12° 大50'22 19° 大16'43 17° 大21'22 17° 大06'31 11° 大34'04 10° 大38'51 10° 大45'55 4° 大35'24 3° 大01'29 7° 大35'04 22° 大01'10 0° 个 18° 个17'51 0° と 2° と21'20 13° と01'31 13° と15'05 0° 耳	1°02'34 1.40111 AU 23°50'42 0.68271 AU 1°47'12 1°46'34 20°33'55
morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	8559 Dec 28 01:44 8559 Dec 29 11:56 8560 Jan 08 12:56 8560 Jan 08 15:29 8560 Jan 13 00:33 8560 Jan 13 19:02 8560 Jan 16 03:18 8560 Jan 17 19:02 8560 Jan 18:18 8560 Jan 18:18 8560 Feb 18:18 8560 Feb 24 18:20 8560 Mar 04 15:32 8560 Mar 04 15:32 8560 Mar 04 15:32 8560 Mar 09 08:24 8560 Mar 12 03:51 8560 Mar 14 16:40 8560 Mar 14 16:40 8560 Mar 14 12:10 8560 Mar 14 12:10 8560 Mar 19 20:18 8560 Mar 19 20:18 8560 Mar 24 11:42 8560 Apr 02 14:56 8560 Apr 08 01:19 8560 Apr 10 00:22 8560 Apr 10 00:22 8560 May 17 10:05	0°♂ 2°♂ 37'57 20°♂ 54'48 21°♂ 606'04 28°♂ 41'30 0°≈ 3°≈ 56'04 13°≈ 08'25 0° ₩ 29° ₩ 05'10 0° Ŷ 4° Ŷ 54'11 4° Ŷ 38'37 2° Ŷ 58'22 30° ℝ ₩ 26° ₩ 35'40 26° ₩ 43'29 26° ₩ 51'21 20° ₩ 26'10 18° ₩ 29'48 23° ₩ 49'57 0° Ŷ 2° Ŷ 29'26 0° ੴ 9° ₺ 41'57 19° ₺ 13'03 0° Ⅱ 2° № 23'45	0°33'02 0°32'51 1.42177 AU 22°30'29 2°25'13 2°24'37 0.68455 AU 21°52'48	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	8560 Dec 12 05:58 8560 Dec 19 03:21 8560 Dec 21 02:22 8560 Dec 21 05:45 8560 Dec 22 05:45 8560 Dec 28 11:24 8560 Dec 29 21:31 8561 Jan 01 16:00 8561 Jan 05 06:00 8561 Jan 25 14:33 8561 Feb 05 10:35 8561 Feb 16 09:04 8561 Feb 21 06:52 8561 Feb 21 14:03 8561 Feb 21 06:52 8561 Feb 27 00:56 8561 Feb 26 08:43 8561 Feb 27 00:56 8561 Feb 26 22:52 8561 Mar 04 07:40 8561 Mar 08 09:33 8561 Mar 16 09:48 8561 Mar 27 21:17 8561 Apr 02 09:37 8561 Apr 14 11:28 8561 Apr 21 21:41 8561 Apr 23 08:52 8561 Apr 29 21:00 8561 Apr 30 00:15 8561 May 09 19:02 8561 May 12 03:58	16° ₹44'43 0° ₹3 3° ₹40'44 3° ₹56'27 16° ₹58'13 19° ₹25'31 24° ₹06'49 0° ≈ 0° ₹ 12° ₹50'22 19° ₹16'43 17° ₹21'22 17° ₹06'31 11° ₹34'04 10° ₹38'51 10° ₹45'55 4° ₹35'24 3° ₹01'29 7° ₹35'04 22° ₹01'10 0° ₹1 13° ₹15'05 0° Ⅱ 4° ¶09'42	1°02'34 1.40111 AU 23°50'42 0.68271 AU 1°47'12 1°46'34 20°33'55
morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	8559 Dec 28 01:44 8559 Dec 29 11:56 8560 Jan 08 12:56 8560 Jan 08 15:29 8560 Jan 13 00:33 8560 Jan 13 19:02 8560 Jan 16 03:18 8560 Jan 17 19:02 8560 Jan 18:18 8560 Jan 18:18 8560 Feb 18:18 8560 Feb 24 18:20 8560 Mar 04 15:32 8560 Mar 04 15:32 8560 Mar 09 08:24 8560 Mar 12 03:51 8560 Mar 14 16:40 8560 Mar 14 16:40 8560 Mar 14 12:10 8560 Mar 14 12:10 8560 Mar 19 20:18 8560 Mar 19 20:18 8560 Apr 02 14:56 8560 Apr 08 01:19 8560 Apr 10 00:22 8560 Apr 29 02:17 8560 May 17 10:05	0°♂ 2°♂37'57 20°♂54'48 21°♂06'04 28°♂41'30 0°≈ 3°≈56'04 13°≈08'25 0°¥ 29°¥05'10 0°° 4°°Y54'11 4°°Y38'37 2°°Y58'22 30°R¥ 26°¥35'40 26°¥43'29 26°¥51'21 20°¥26'10 18°¥29'48 23°¥49'57 0°°Y 2°°Y29'26 0°♂ 9°♂41'57 19°♂13'03 0°Ⅱ	0°33'02 0°32'51 1.42177 AU 22°30'29 2°25'13 2°24'37 0.68455 AU 21°52'48	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	8560 Dec 12 05:58 8560 Dec 19 03:21 8560 Dec 21 02:22 8560 Dec 21 05:45 8560 Dec 22 05:45 8560 Dec 28 11:24 8560 Dec 29 21:31 8561 Jan 01 16:00 8561 Jan 05 06:00 8561 Jan 25 14:33 8561 Feb 05 10:35 8561 Feb 16 09:04 8561 Feb 21 06:52 8561 Feb 21 14:03 8561 Feb 21 14:03 8561 Feb 26 08:43 8561 Feb 27 00:56 8561 Feb 26 22:52 8561 Mar 04 07:40 8561 Mar 08 09:33 8561 Mar 16 09:48 8561 Mar 27 21:17 8561 Apr 02 09:37 8561 Apr 14 11:28 8561 Apr 21 21:41 8561 Apr 23 08:52 8561 Apr 29 21:00 8561 Apr 30 00:15 8561 May 09 19:02	16° \$744'43 0° で 3° では、44'43 0° で 3° では、44'44 3° では、56'27 16° では、58'13 19° では、58'13 19° では、49 0° ※ 0° 光 12° 大50'22 19° 大16'43 17° 大21'22 17° 大06'31 11° 大34'04 10° 大38'51 10° 大45'55 4° 大35'24 3° 大01'29 7° 大35'04 22° 大01'10 0° 个 18° 个17'51 0° と 2° と21'20 13° と01'31 13° と15'05 0° 耳	1°02'34 1.40111 AU 23°50'42 0.68271 AU 1°47'12 1°46'34 20°33'55

evening max el	8561 May 29 04:52	0° © 39'35	18°05'16		8562 Apr 14 12:45	0° ႘	
retrograde	8561 Jun 04 16:43	4° 5 00'49	16 03 10	evening rise	8562 Apr 23 23:16	15° 8 34'43	
evening set	8561 Jun 07 08:56	3°926'04		evening rise	8562 May 02 15:38	0°Ⅱ	
evening set	8561 Jun 12 03:11	30°R∏		asc. node	8562 May 07 02:45	6° Ⅱ 55'54	
inferior conj	8561 Jun 13 19:23	28° ∏ 21'01	2°35'19	evening max el	8562 May 12 18:10	14° I I03'02	18°16'40
minimum elong	8561 Jun 13 22:14	28° I I3'49	2°34'27	retrograde	8562 May 19 03:30	17° II 27'25	10 10 10
min. Earth dist.	8561 Jun 16 20:20	25° I 17'52		evening set	8562 May 22 02:57	16° Ⅱ 39'35	
morning rise	8561 Jun 20 09:27	22° Ⅱ 18'25		inferior conj	8562 May 28 01:35	11° I I16'26	3°08'00
desc. node	8561 Jun 23 20:51	20° Ⅲ 30′00		minimum elong	8562 May 28 03:24	11° I I1'16	3°07'34
direct	8561 Jun 27 02:27	19° ∏ 57'42		min. Earth dist.	8562 May 30 13:06	8° Ⅲ 28′19	0.63822 AU
morning max el	8561 Jul 11 07:07	27° Ⅲ 58′24	27°55'51	morning rise	8562 Jun 03 02:37	5° Ⅱ 02'37	
	8561 Jul 13 05:52	0 \circ		direct	8562 Jun 09 20:09	2° Ⅲ 23′00	
	8561 Aug 03 04:32	$\mathfrak{O}^{\circ} \mathfrak{O}$		desc. node	8562 Jun 10 17:52	2° Ⅱ 25'39	
morning set	8561 Aug 13 18:46	20° Ω 05'09		morning max el	8562 Jun 23 16:09	10° Ⅱ 24'45	27°39'23
asc. node	8561 Aug 16 05:04	25° Ω 08′27			8562 Jul 09 01:06	0ංම	
	8561 Aug 18 11:40	O° Mp			8562 Jul 26 13:48	$0^{\circ}\Omega$	
max. Earth dist.	8561 Aug 19 10:47	2°Mp05'16	1.31982 AU	morning set	8562 Jul 28 13:24	3° Ω 53′13	
				max. Earth dist.	8562 Aug 02 12:13	14° Ω 00'59	1.32802 AU
superior conj	8561 Aug 21 05:18	5° Mp 57′37	0°49'01	asc. node	8562 Aug 03 02:02	15° Ω 13'48	
minimum elong	8561 Aug 21 03:20	5° ™ 46'49	0°48'33				
evening rise	8561 Aug 28 00:21	20° m 49'23		superior conj	8562 Aug 05 11:46	20° Ω 21'37	
	8561 Sep 01 10:15	0∘ ত		minimum elong	8562 Aug 05 10:37	20° Ω 15′28	0°23'47
desc. node	8561 Sep 19 19:37	29° Ω 02'08			8562 Aug 09 22:40	0° m)	
	8561 Sep 20 16:53	0°M,		evening rise	8562 Aug 12 11:56	5° m 29'15	
evening max el	8561 Sep 22 12:57	1°M51'27	24°37'27		8562 Aug 25 12:15	0∘ ⊽	
retrograde	8561 Oct 06 08:07	8°M47'40		evening max el	8562 Sep 04 00:08	12° ≙ 04'38	22°58'30
evening set	8561 Oct 11 15:28	7°M44'55	0.56664.477	desc. node	8562 Sep 06 16:44	14° £ 27'14	
min. Earth dist.	8561 Oct 16 23:58	4°M57'40	0.56664 AU	retrograde	8562 Sep 17 07:26	18° £ 43'26	
inferior conj	8561 Oct 19 15:17	3°M16'47		evening set	8562 Sep 21 02:41	18° £ 11'47	0.550(0.11)
minimum elong	8561 Oct 19 18:09	3°M12'13	5°32'01	min. Earth dist.	8562 Sep 28 08:43	14° £ 54'08	0.55269 AU
	8561 Oct 25 12:42	30° ₹ Ω		inferior conj	8562 Sep 29 20:25	14° ♀ 02'41	
morning rise	8561 Oct 27 23:01 8561 Oct 30 12:43	29° £ 12'36 28° £ 54'30		minimum elong	8562 Sep 29 15:46	14° ♀ 09'24 10° ♀ 13'17	5°26'35
direct	8561 Nov 04 05:56	28 = 34 30 0° M		morning rise direct	8562 Oct 08 06:54 8562 Oct 11 08:10	9° 2 51'27	
morning max el	8561 Nov 09 01:38	3°M25'38	10020120	morning max el	8562 Oct 22 10:33	9 ≥ 31 27 15° ♀ 03'25	20°45'57
asc. node	8561 Nov 12 04:47	6°M52'01	19 20 30	asc. node	8562 Oct 30 01:45	24° ♀ 30'26	20 43 37
asc. nouc	8561 Nov 25 17:34	0° ₹		asc. Houc	8562 Nov 02 10:16	0°M₁	
morning set	8561 Nov 26 08:10	1°× 13'03		morning set	8562 Nov 10 15:41	15°M54'56	
morning set	03011107 20 00.10	1 7 13 03		morning set	8562 Nov 17 10:27	0° ∡ 7	
superior conj	8561 Dec 04 08:14	17° ∡ 13'22	1°23'35		03021101 17 10.27	· ^	
minimum elong	8561 Dec 04 11:02	17° × ⁷ 27'07	1°23'29	superior conj	8562 Nov 18 02:02	1° ∡ 19'53	1°36'01
max. Earth dist.	8561 Dec 10 17:18	29° ∡ 20'27	1.37932 AU	minimum elong	8562 Nov 18 03:39	1° ∡ ′28′10	1°36'05
	8561 Dec 11 01:55	0°ප		max. Earth dist.	8562 Nov 23 01:28	11° × 717'07	1.35892 AU
evening rise	8561 Dec 14 10:38	6° ප 02'16		evening rise	8562 Nov 27 00:25	18° ∡ ¹48'36	
desc. node	8561 Dec 16 18:29	10° පි 04'56		C	8562 Dec 03 07:07	0°ರ	
	8561 Dec 29 05:00	0° ≈		desc. node	8562 Dec 03 15:31	0° る 35'50	
evening max el	8562 Jan 18 23:45	26° ≈ 37'43	25°07'43		8562 Dec 23 08:45	0° ≈	
	8562 Jan 22 19:00	0°) €		evening max el	8563 Jan 01 12:49	10° ≈ 24′05	26°14'25
retrograde	8562 Jan 30 22:29	3°) €33'12		retrograde	8563 Jan 14 07:03	17° ≈ 37'48	
evening set	8562 Feb 05 16:08	1° ₩ 10'21		evening set	8563 Jan 20 12:58	15° ≈ 05'46	
	8562 Feb 06 22:14	30° R ≈		min. Earth dist.	8563 Jan 24 17:30	10° ≈ 42'30	0.66730 AU
asc. node	8562 Feb 08 03:57	28° ≈ 38'50		inferior conj	8563 Jan 26 08:46	8° ≈ 41'57	0°06'26
min. Earth dist.	8562 Feb 10 03:12	26°≈12'33	0.67690 AU	minimum elong	8563 Jan 26 08:35	8° ≈ 42'30	0°06'32
inferior conj	8562 Feb 11 06:56	24° ≈ 42′00	1°00'47	transit middle	8563 Jan 26 08:35	8° ≈ 42'30	0°06'32
minimum elong	8562 Feb 11 05:32	24° ≈ 46'36	1°00'22	transit begin	8563 Jan 26 05:58	8° ≈ 50'34	
morning rise	8562 Feb 16 19:14	18° ≈ 46′12		transit end	8563 Jan 26 11:13	8° ≈ 34'26	
direct	8562 Feb 20 08:35	17° ≈ 33'31		asc. node	8563 Jan 26 01:01	9° ≈ 05'48	
morning max el	8562 Feb 27 12:41	21°≈32'05	19°28'22	morning rise	8563 Feb 01 04:58	2°≈55'39	
	8562 Mar 06 12:15	0°) (10)27	0.7	direct	8563 Feb 04 07:16	2°≈01'21	10020120
greatest brilliancy	8562 Mar 12 07:33	8° ¥ 19'37	-0.7m	morning max el	8563 Feb 10 22:48	5°≈37'21	18°38'28
desc. node	8562 Mar 14 18:10	11°) 58'28			8563 Feb 28 04:49	0° ∀	
morning set	8562 Mar 24 09:38	26°) 41'40		desc. node	8563 Mar 01 15:06	2°) 14'44	
E d v .	8562 Mar 26 13:00	0° γ	1 44704 411	morning set	8563 Mar 04 00:52	6° ₩ 01'57	
max. Earth dist.	8562 Apr 05 22:16	16° Ƴ 13′20	1.44784 AU	may Fauth Ji-4	8563 Mar 19 07:42	0°Υ 22'00	1 45472 411
gunorier con:	9562 Amm 00 22:22	22° Y 35'17	2010/00	max. Earth dist.	8563 Mar 19 15:52	0° Ƴ 32'00	1.45472 AU
superior conj minimum elong	8562 Apr 09 22:23 8562 Apr 09 19:11	22° γ° 35° 17 22° γ° 22° 35° 17		superior conj	8563 Mar 20 06:12	1° Y 28'07	1050155
	AND AND US 19'11	77:177:31	Z 100/	Superior conf	8563 Mar 20 06:12	1 1 280/	-1 20.22

minimum elong	8563 Mar 19 21:11	0° Υ 52'47	1°50'12		8564 Feb 20 23:55	0°) €	
evening rise	8563 Apr 04 19:00	26° Y ′00'56					
	8563 Apr 07 06:49	9° 8		superior conj	8564 Feb 27 13:25	10°) €26'45	-1°14'27
greatest brilliancy	8563 Apr 12 18:39	8° 8 45'32	-0.9m	minimum elong	8564 Feb 27 05:03	9°) 53′41	1°13'23
asc. node	8563 Apr 23 23:50	25° 8 06'43		max. Earth dist.	8564 Mar 01 11:23		1.45417 AU
evening max el	8563 Apr 26 05:28	27° 8 35'57	18°46'06		8564 Mar 11 01:54	$0^{\circ}\mathbf{\Upsilon}$	
	8563 Apr 29 02:25	0° Π		evening rise	8564 Mar 14 17:30	5° Y 39'18	
retrograde	8563 May 02 21:09	1° Ⅱ 16'17		greatest brilliancy	8564 Mar 27 17:47	25° Y 35'15	-0.7m
evening set	8563 May 06 04:04	0°Ⅱ14'18 30°R ႘		i1	8564 Mar 30 17:48	0° と 11° と 13'51	19°32'19
inferior conj	8563 May 06 12:47 8563 May 11 18:39	24° 8 34'43	3°21'40	evening max el asc. node	8564 Apr 08 12:44 8564 Apr 09 20:56	12° 8 30'22	19-32-19
minimum elong	8563 May 11 19:08	24° 8 33'12	3°21'30	retrograde	8564 Apr 15 18:28	15° 8 21'23	
min. Earth dist.	8563 May 13 14:59	22° 8 17'35	0.65605 AU	evening set	8564 Apr 19 09:32	14° 8 04'30	
morning rise	8563 May 17 09:33	18° 8 16'36		inferior conj	8564 Apr 24 19:16		3°20'23
direct	8563 May 23 21:32	15° 8 29'57		minimum elong	8564 Apr 24 18:33	8° 8 12'25	3°20'13
desc. node	8563 May 28 14:53	16° 8 42'50		min. Earth dist.	8564 Apr 26 00:35	6° 8 33'22	0.66975 AU
morning max el	8563 Jun 06 02:39	23° 8 19'49	26°50'43	morning rise	8564 Apr 30 03:13	1° 8 51'53	
	8563 Jun 12 00:45	Π °0			8564 May 02 18:51	30° ₹Ƴ	
	8563 Jul 02 09:05	0 \circ \odot		direct	8564 May 06 05:13	29° Y 09'51	
morning set	8563 Jul 11 21:35	17° © 08'36			8564 May 09 22:16	0°8	
max. Earth dist.	8563 Jul 16 03:47	25° © 28'48	1.34112 AU	desc. node	8564 May 14 11:54	2° 8 51'34	
	8563 Jul 18 09:17	0 \circ Ω		morning max el	8564 May 18 12:33	6° 8 32'01	25°38'28
superior conj	9562 Iul 20 12:20	4° Ω 24'46	0004126	morning set	8564 Jun 05 16:41 8564 Jun 23 15:22	0°Ⅲ 29°Ⅲ40'37	
minimum elong	8563 Jul 20 12:29 8563 Jul 20 12:43	4 °Ω24 46 4°Ω26'04		morning set	8564 Jun 23 19:37	29 П 40 3 / 0° ©	
behind sun begin	8563 Jul 20 07:12	3° Ω 57'18	0 0434	max. Earth dist.	8564 Jun 27 08:32	6° © 35'18	1.35887 AU
behind sun end	8563 Jul 20 18:14	4°Ω54'51		max. Earth dist.	0304 Jun 27 00.32	0 333 10	1.55007 710
asc. node	8563 Jul 20 23:01	5° Ω 19'50		superior conj	8564 Jul 03 04:47	18° © 00'10	-0°35'37
evening rise	8563 Jul 27 22:05	20° Ω 01'15		minimum elong	8564 Jul 03 06:55	18° © 10'52	0°35'24
	8563 Aug 01 19:54	0° m		asc. node	8564 Jul 06 20:01	25°522'47	
evening max el	8563 Aug 16 17:15	22°M 26'21	21°23'22		8564 Jul 09 02:02	$0^{\circ}\Omega$	
desc. node	8563 Aug 24 13:51	27° Mp 43'05		evening rise	8564 Jul 11 04:39	4° Ω 19′29	
retrograde	8563 Aug 28 20:58	28° Mp 27'56			8564 Jul 25 21:54	0°Щ	
evening set	8563 Aug 31 08:44	28° mp 13'40	100 (107	evening max el	8564 Jul 28 22:46	3° m 24'59	20°03'43
inferior conj	8563 Sep 09 13:52	24° Mp 16'15		retrograde	8564 Aug 08 10:36	8° Т р 35'52	
minimum elong min. Earth dist.	8563 Sep 09 04:22 8563 Sep 09 17:25	24° mp 29'35 24° mp 11'17		evening set desc. node	8564 Aug 10 08:19 8564 Aug 10 10:59	8° Mp 26'23 8° Mp 25'16	
morning rise	8563 Sep 18 00:46	24 m/1117 20°m/24'34	0.34079 AU	inferior conj	8564 Aug 19 09:25	4° Mp 27'15	-2°42'01
direct	8563 Sep 21 17:04	19° m 55'17		minimum elong	8564 Aug 19 02:04	4° Mp 38'14	
morning max el	8563 Oct 04 07:07	25° m 53'45	22°22'20	min. Earth dist.	8564 Aug 21 03:55	3° m 23'42	
S	8563 Oct 08 03:44	0∘ <u>⊽</u>		morning rise	8564 Aug 27 18:24	0° m 13'23	
asc. node	8563 Oct 16 22:44	12° ჲ 54'49			8564 Aug 28 12:58	30°R Ω	
	8563 Oct 25 18:02	0° M		direct	8564 Sep 01 04:53	29° Ω 30'35	
morning set	8563 Oct 26 02:13	0°M43'02			8564 Sep 04 19:39	0°Щ	
				morning max el	8564 Sep 14 20:14	6° Mp 12′17	24°08'14
superior conj	8563 Nov 02 04:03	15°M48'30	1°41'01		8564 Oct 01 19:10	0∘ ⊽	
minimum elong	8563 Nov 02 04:22	15°M50'07	1°41'09	asc. node	8564 Oct 02 19:43	1° £ 54'08	
max. Earth dist.	8563 Nov 05 16:34	23°M10'15	1.34178 AU	morning set	8564 Oct 09 13:57	15° ≏ 32'29	
evening rise	8563 Nov 09 01:51 8563 Nov 10 05:22	0°⊀ 2°⊀14'52		superior conj	8564 Oct 16 11:30	0°M30'58	1°39'27
desc. node	8563 Nov 20 12:35	20°×752'17		minimum elong	8564 Oct 16 11:30	0°M26'19	
dese. Hode	8563 Nov 26 05:18	0°る		minimum ciong	8564 Oct 16 05:48	0°M	1 37 31
evening max el	8563 Dec 15 02:03	24° る 01'38	27°03'33	max. Earth dist.	8564 Oct 18 16:14		1.32885 AU
C	8563 Dec 23 02:30	0° ≈		evening rise	8564 Oct 23 21:48	16°M11'36	
retrograde	8563 Dec 28 09:52	1° ≈ 22'11		Č	8564 Oct 31 02:39	0°⊀	
	8564 Jan 02 07:06	30°Rる		desc. node	8564 Nov 06 09:39	10° ∡ 747'50	
evening set	8564 Jan 04 02:30	28° る 46'22			8564 Nov 19 20:54	℃ 0	
min. Earth dist.	8564 Jan 08 01:20	24° ප් 57'05	0.65406 AU	evening max el	8564 Nov 26 14:15	7° ට 19'09	27°27'55
inferior conj	8564 Jan 10 04:12	22° る 33'08		retrograde	8564 Dec 10 06:02	14° පි 38'02	
minimum elong	8564 Jan 10 05:49	22° る 28'33	0°54'23	evening set	8564 Dec 17 06:12	12°る05'45	0.62556 : **
asc. node	8564 Jan 12 22:06	19° る 36'24		min. Earth dist.	8564 Dec 21 00:31	8° 궁 48'21	0.63756 AU
morning rise	8564 Jan 16 10:25	16° る 58'45		inferior conj	8564 Dec 23 14:41	6°る09'24	
direct morning max el	8564 Jan 19 03:32 8564 Jan 25 13:55	16°පි19'04 19°පි43'46	18°05'14	minimum elong asc. node	8564 Dec 23 18:32 8564 Dec 29 19:11	5°る59'30 1°る04'40	2-01-10
morning max er	8564 Jan 25 13:55 8564 Feb 02 10:02	19° ℃ 43′46	10 03 14	morning rise	8564 Dec 29 19:11 8564 Dec 30 08:40	1°504'40 0° る 50'01	
morning set	8564 Feb 12 21:15	0 ∞ 16°≈50'12		direct	8565 Jan 01 18:48	0°る3001	
desc. node	8564 Feb 16 12:03	10 ≈30 12 22°≈44'11		morning max el	8565 Jan 08 07:13	3°₹44'04	17°49'11
	522.200 10 12.00				00 07.13		>

Section Sect	morning set	8565 Jan 24 20:59	28° ප 58'15		superior conj	8566 Jan 18 15:22	1° ≈ 21'42	0°11'53
Septembor Sept		8565 Jan 25 11:23	0° ≈		minimum elong	8566 Jan 18 16:27	1° ≈ 26′22	0°11'54
superior congrimment of MoSe Field 10 (19) 400-273 b. (2014) 400-273 b. (2014) 400-273 b. (2014) 400-274 b. (2014) 40	desc. node	8565 Feb 02 08:59	13° ≈ 22'21		behind sun begin	8566 Jan 18 10:40	1° ≈ 01'34	
mnimar dung Self- 16 10.2 10.					behind sun end	8566 Jan 18 22:15	1° ≈ 51′08	
max. Earth dist. 885 Fibr 12 06.91 29*82709 1.44636 AU evening read 8565 Fibr 20 05.02 27*24743 0"P evening read 8565 Fibr 20 05.02 12*45 87.38 0"P evening max el 8565 Mar 60 1.00 8"0"5341 41 1452 0"P evening max el 8565 Mar 21 1440 2"9"5714 20 12713 evening max el 8565 Mar 10 1700 2"9"07838 8566 Mar 10 1700 19"78371 20"12713 evening ex el 8565 Mar 10 1700 2"9"0783 evening ex el 8566 Mar 10 1700 2"9"17971 20"1271 evening ex el 8565 Mar 10 1700 0.003 2"9"7913 20"571 20"1271 minimum clong 8566 Mar 24 0640 6"9"0040 22"439 minimum clong 8565 Apr 10 00.03 2"9"7412 20"7573 20"8797 AU minimum clong 8566 Mar 24 0640 6"9"0040 22"4239 morning ana 8565 Apr 10 1817 10"1275 20"1275 20"1278 direct 8566 Mar 24 11010 2"9"4279 20"30 morning ana 8565 Apr 10 1817 10"1279 20"1278 2"1228 direct 8566 Mar 20 120 20"2278 2"1228 20"228 morning ana 8565 Apr 10 1817 10"1279 20"1278 20"1278 minimum clong 8566 Mar 20 120 20"228	superior conj	8565 Feb 06 13:43	20° ≈ 17′25	-0°30'18	desc. node	8566 Jan 20 05:55	4° ≈ 05'45	
centing in Sis Fish 12 1435 O'H Separation of the section of the sec	minimum elong	8565 Feb 06 10:24	20° ≈ 03'49	0°29'41	max. Earth dist.	8566 Jan 25 21:55	13° ≈ 30′21	1.43215 AU
Second S	max. Earth dist.	8565 Feb 12 06:19		1.44636 AU	evening rise	8566 Feb 01 20:59		
certing mack 8565 Mar 2 1402 o"?" evening mack 8566 Mar 14 1509 21***9*********************************								
Secondary Seco	evening rise	8565 Feb 22 05:04				8566 Feb 26 04:38		
Sec. 100e Sec. 5 Mar 27 1802 Sec. 75/43 Sec. 100e Sec. 75/45 Sec. 75/4		8565 Mar 04 03:21	0 ° Υ		evening max el	8566 Mar 05 11:06		21°45'29
crotognade versining set selection of section and set selection per selection per section per set selection of set set selection of set set selection of set set set selection of set set set selection of set set selection of set set set set selection of set	evening max el	8565 Mar 22 14:40		20°33'13	retrograde	8566 Mar 14 14:51		
Second	asc. node	8565 Mar 27 18:02				8566 Mar 14 15:09		
inferior conj 856 Apr 09 00-43 21*YS713 37055 minimum elong 856 Apr 08 15:99 21*YS714 37055 min Earth dist 8566 Apr 19 15:99 21*YS712 3705 min Earth dist 8566 Apr 19 15:99 21*YS712 21*YS712 min Earth dist 8566 Apr 19 10:19 27*YS12 21*YS712 40*YS12 8566 Apr 19 10:19 27*YS12 40*YS12 40*YS12<	retrograde	8565 Mar 30 17:00			evening set	8566 Mar 19 01:21	-	
minimal ellong	•				•			
nin Earth dist 8565 Apr 10 15-59 21°POH352 0.67897 AU morning rice 8566 Mar 29 11-39 29°PA4176 direct 8565 Apr 10 18/01 15°POH322 24°1278 direct 8566 Apr 90 1219 0°PY desc. node 8565 May 10 18/05 15°POH312 24°1278 morning max el 8566 May 00 12.25 0°PU desc. node 8566 May 00 12.25 0°PU desc. node 8566 May 00 14.52 0°PU 22°4243 morning set 8565 May 00 12.25 0°PU desc. node 8566 May 20 14.52 0°PU 22°4243 morning set 8565 May 00 13.36 11°II 14/56 morning set 8565 May 00 00.11 17°14444 1.8015 AU max. Earth dist 8566 May 22 03.42 9°P38282 1.40270 AU seconde 8565 Jun 15 0.13.6 11°21880 10°P38287 1.70799 minimum dong 8566 May 22 10.28 0°II 18°31838 13°71878 13°71878 13°71879 13°71878 13°71873 13°71873 13°71873 13°7183 13°71873 13°71873 13°71873 13°71873 13°7183 13°71873 13°71873		-			•			
Marting rise	•							0.68374 AU
direct 8565 Apr 03 11.90 27°H312% morning max el 8565 Apr 30 01.237 19°P5312 24°1278 8566 Apr 03 11.90 27°H312% desc, node 8565 May 01 08:52 0°B°T3152 42°H278 morning max el 8566 Apr 13 07:39 37°C200 22°4243 desc, node 8565 May 00 12:25 0°B desc, node 8566 Apr 13 07:39 37°C200 22°4243 morning set 8565 May 00 13:36 11°H1456 morning set 8566 May 00 13:45 0°B sweprior conj 8565 Jun 15 21:00 0°B 11°H1454 1.8015 AU max. Farth dist. 8566 May 22 10:28 0°H2 1°B7378 sweprior conj 8565 Jun 16 09:12 0°B2 1°9789 minimum elong 8566 May 22 10:28 1°F13738 1°3705 3°T1099 minimum elong 8566 May 22 10:28 1°F13738 1°3705 3°T1099 minimum elong 8566 Jun 20 1°T13738 1°3705 3°T1099 minimum elong 8566 Jun 20 21:31 1°T113738 1°3705 3°T1099 1°T13739 1°T10999 1°T10799 1°T10799		_		0.67897 AU	morning rise			
morning maxel 8565 Apr 30 21:37 9°9°3112 24°12'28 morning max el 8566 Apr 10 9 12:19 0°9°4 desc. node 8566 Apr 13 07:59 3°9°22'06 22°42'43' 3660 May 20 20:44 0°11 morning set 8566 May 10 13:36 1°1114'15 morning set 8566 May 10 13:36 1°1114'15 morning set 8566 May 20 20:44 0°11 morning set 8566 May 20 13:48 1°10-188 21°83'85 max. Earth dist. 8566 May 20 10:40 0°12 0°9°62'81'4 138015 AU max. Earth dist. 8566 May 22 01:40 0°12 0°9°85'14 170739 minimum clong 8565 May 10 10 10 12 0°9°85'14 1°10739 minimum clong 8565 May 10 10 10 12 0°9°85'14 1°10739 minimum clong 8565 May 10 10 13:26 1°10709 minimum clong 8566 May 20 12:88 13°100'9 1°37'35 1°37'05' minimum clong 8565 May 10 10 13:26 1°30'10'9 1°37'35 1°37'05' 1°37'	=	-					*	
desc. node		1			direct	-		
Mathematics May 20 12.22 0°B May 10 12.25 0°B May 10 14.22 0°B May 10 14.22 0°B May 10 14.22 0°B 11 11 14.56 morning set 8.566 May 17 10.58 2°B 2°B 58.56 May 17 10.58 2°B 58.56 May 18 14.52 0°B 17 11 14.43 1.8015 AU morning set 8.566 May 20 20.04 2°B 2°B 37.55 1.40270 AU 8.567 May 20 20.04 2°B 2°B 37.55 1.40270 AU 8.567 May 20 20.04 2°B 2°B 37.55 1.40270 AU 8.566 May 20 20.04 2°B 2°B 37.55 1.40270 AU 8.566 May 20 20.04 2°B 2°B 37.55 1.40270 AU 8.566 May 20 20.04 1.9°B 2°B 2°	•	_		24°12'28		-		
March Sept March Sept	desc. node	•			•	•		22°42'43
max. Earth dist. 8565 Jun 09 050 17 14 1.8015 AU max. Earth dist. 8566 Jun 29 20 23 1.0270 AU 29 28 28 28 28 28 28 28		•			desc. node	-		
max. Earth dist. 8565 Jun 10 0.01 17°H413 1.38015 AU max. Earth dist. 8566 May 22 0.02 0°H28"2 1.40270 AU 8505 Jun 15 2.100 0°E08** 14 1°0739 superior conj 8566 May 22 0.128 13°H029"2 1-13°H327 1°3705 asc. node 8565 Jun 23 1.701 1°528 1803 1°28 1807 1°28 1°2		•				•	_	
Second S	•				•		_	
superior conji 8565 Jun 16 09.12 0°ØS8*14 -1°0739 superior conji 8566 May 29 21.38 13°H0929 1-1°3735 1°37195 asc. node 8565 Jun 23 17.01 15°Ø1827 1°07099 minimum elong 8566 May 30 03:24 13°H3538 1°3705 evening rise 8565 Jun 23 05.02 18°Ø1809 evening rise 8566 Jun 07 22:18 0°Ø 1°24173 evening max el 8565 Jul 10 07.55 0°Ø asc. node 8566 Jul 20 00.06 1°894323 1°82171 evening max el 8565 Jul 20 1319 19°Ø40323 evening max el 8566 Jul 20 1319 19°Ø40323 1°821710 1°821717 0°Ø 0°Ø 1°821717 0°Ø 0°Ø 1°821717 0°Ø 0°Ø 0°Ø 0°Ø 0°Ø	max. Earth dist.			1.38015 AU	max. Earth dist.	•		1.40270 AU
minimum dlong asc. node asc. node asc. set Set Sun asc. node asc.		8565 Jun 15 21:00	0°ಅ			8566 May 22 10:28	0°Щ	
minimum dlong asc. node asc. node asc. set Set Sun asc. node asc.	superior coni	8565 Jun 16 09:12	0°958'14	-1°07'39	superior coni	8566 May 29 21:38	13°∏09'29	-1°37'35
asc. node evening rise evening rise evening rise (8565 Jun of 10 07.55) 8565 Jun of 10 07.55 0°Ω evening rise asc. node 8565 Jun of 10 107.55 0°Ω asc. node 8565 Jun of 10 107.55 0°Ω asc. node 8565 Jun of 10 107.55 0°Ω asc. node 8565 Jun of 10 10.00 0°200737 18°25 Val of 10°20 <						•		
evening rise 8565 Jul 25 05:02 18°91609 evening rise 8566 Jul 01 07:55 0°A asc. node 8566 Jul 10 10:402 1°943723 1°94172 evening max el 8565 Jul 20 13:19 15°801734 15°801737 15°801737 18°25741 retrograde 8565 Jul 20 13:19 19°803023 retrograde 8566 Jul 20 11:15 19°801854 retrograde 8566 Jul 20 10:11 1°9701854 retrograde 8566 Jul 20 11:10 1°9701854 retrograde 8566 Jul 20 10:11 1°9701854 retrograde 8566 Jul 20 10:11 1°9701854 retrograde 8566 Jul 20 10:11 1°970185 retrograde 8566 Jul 20 10:11 0°970185 retrograde 8566 Jul 20 10:11 0°970185 retrograde 8566 Jul 20 10:11 0°970185 retrograde 8566 Jul 20 00:20 0°970185 0	C			1 0, 0,		,		1 3, 00
evening max el 8565 Jul 01 07:55 0°\$\tau\$					evening rise			
cevening max el 8565 Jul 11 17:09 15°\$\Q0746 19°\Q416 cevening max el 8566 Jul 24 21:34 27°\Q53037 18°25'41 cevening act 8565 Jul 28 01:17 0°\Q\$\Q\$\Q\$\Q\$\Q\$\Q\$\Q\$\Q\$\Q\$\Q\$\Q\$\Q\$\Q\$\	evening rise				•			
Petrograde 8565 Jul 20 13:19 19°Ω3023 retrograde 8566 Jul 22 11:15 19°Ω1854 retrograde 8566 Jul 02 11:10 1°Ω1720 retrograde 8566 Jul 02 11:10 1°Ω1720 retrograde 8566 Jul 02 13:11 0°Ω25926 retrograde 8566 Jul 02 13:10 13:10 0°Ω25926 retrograde 8566 Jul 02 13:10 13:10 0°Ω25926 retrograde 8566 Jul 02 13:00 0°25246 retrograde 8566 Jul 02 13:00 0°25246 retrograde 8566 Jul 02 13:00 0°25246 retrograde 8566 Jul 03 13:00 0°3337 retrograde 8566 Jul 03 13:00 0°3336 retrograde 8566 Jul 03 0°3336 retrograde	evening max el			19°04'16				18°25'41
Part	•				0.08			
Sees. node 8565 Jul 28 08:06 16°Q44'37 evening set 8566 Jul 07 02:03 30°R±2 minimum elong 8565 Jul 30 18:09 15°Q05'11 -0°45'59 8566 Jul 12 04:16 26°£26'20 0°53'37 minimum elong 8565 Jul 20 12:147 13°Q06'15 0.56302 AU minimum elong 8566 Jul 12 06:16 26°£26'20 0°52'46 morning rise 8565 Aug 07 21:59 10°QL15'42 direct 8565 Aug 07 21:59 10°L16 0°R minimum elong 8565 Jul 15 13:09 23°£36'19 0.58202 AU morning max el 8565 Sep 10 10:16 0°R morning rise 8566 Jul 19 17:35 21°£00025 21°£00025 direct 8565 Jul 25 18:09 10°£25'8 direct 8566 Jul 25 18:09 10°£25'8	•				retrograde			
minimum elong minimum elon	•				~			
minimum elong 8565 Jul 30 18:09 15° Ω0835 0°45'21 inferior conj 8566 Jul 12 04:16 26° Φ26'00 0°53'37 min. Earth dist. 8565 Aug 07 21:59 10° Ω15'42 desc. node 8566 Jul 15 05:11 23° Φ27'19 0°52'46 morning rise 8565 Aug 13 04:20 9° Ω10'88 min. Earth dist. 8566 Jul 15 13:09 23° Φ24'19 0.5820 AU morning max el 8565 Aug 27 09:13 16° Ω2'713 25° 48'15 morning rise 8566 Jul 19 17:35 21° Φ00'25 27° Φ37'25 27° 05'725	inferior coni			-0°45'59	<i>3</i>			
min. Earth dist. 8565 Aug 02 17:47 13° Ω06'15 0.56302 AU minimum elong 8566 Jul 12 06:06 26°Φ22'19 0°52'46 morning rise 8565 Aug 13 04:20 9°Ω10'58 min. Earth dist. 8566 Jul 15 05:11 23°Φ25'94'1 0.58202 AU morning max el 8565 Aug 27 09:13 16°Ω27'13 25°48'15 morning rise 8566 Jul 19 17:35 21°Φ00'25 21°Φ00'25 asc. node 8565 Sep 19 16:40 21°№18'58 morning max el 8566 Aug 11 21:54 0°Ω 27°Φ0'725 27°05'32 morning set 8565 Sep 2 24 01:12 0°£18'19 sc. node 8566 Aug 31 22:45 0°Ω					inferior coni			0°53'37
Moming rise 8565 Aug 07 21:59 10°Ω15'42 desc. node 8566 Jul 15 05:11 23°©5'94 0.58202 AU 0.58202	C				3			
Minect See Say 13 04:20 9° Ω10'58 min. Earth dist. See Glul 15 13:09 23° 24'19 0.58202 AU morning max el 8565 Aug 27 09:13 16° Ω27'13 25° 48'15 morning rise 8566 Jul 15 13:09 23° 24'19 0.58202 AU morning max el 8565 Sep 07 10:16 0° 10° 10° 10° 10° 10° 10° 10° 10° 10°	morning rise	•	10° Ω 15'42		_	8566 Jul 15 05:11	23° © 59'41	
Morning max el 8565 Aug 27 09:13 16° Ω2713 25° 48°15 Morning rise 8566 Aug 19 17:35 21° 20025 10° 20° 20° 20° 20° 20° 20° 20° 20° 20° 2	•	•			min. Earth dist.			0.58202 AU
See See See No. 10:16 O° № direct See See See See See No. 10:16 O° № See See See See See See See See See S	morning max el	8565 Aug 27 09:13	16° Ω 27'13	25°48'15	morning rise	8566 Jul 19 17:35	21° © 00'25	
moming set		-	0° m)		direct	8566 Jul 25 18:09	19° © 25'58	
morning set	asc. node	8565 Sep 19 16:40	21° m 18'58		morning max el	8566 Aug 09 03:36	27° 5 07'25	27°05'32
superior conj		8565 Sep 23 21:46				8566 Aug 11 21:54	$0^{\circ}\Omega$	
Superior conj S565 Sep 30 22:05 15° \(\one{\Delta} \) 20'13 1°32'01 morning set 8566 Sep 08 10:20 14° \(\overlightarrow \) 55'29 superior conj minimum elong 8565 Sep 30 20:22 15° \(\overlightarrow \) 17° \(\overlightarrow \) 18° \(\overlightarrow \) 18565 Sep 30 20:22 15° \(\overlightarrow \) 18° \(\overlightarrow \) 18565 Sep 30 20:23 17° \(\overlightarrow \) 182038 AU superior conj 8566 Sep 15 09:52 0° \(\overlightarrow \) 0° \(\overlightarrow \) 19'12 29° \(\overlightarrow \) 57'51 18'15'54 29° \(\overlightarrow \) 19'12 29° \(\overlightarrow \) 19'12 29° \(\overlightarrow \) 19'13 18'15'4 8565 Sep 15 08:04 0° \(\overlightarrow \) 19'13 18'15'4 8565 Sep 15 08:04 0° \(\overlightarrow \) 18'54 18° \(\overlightarrow \) 18'54 0° \(\overlightarrow \) 18'55 0° \(\overlightarrow \) 18'55 18'1555 18'155 18'1555 18'1555 18'1555 18'1555 18'1555	morning set	8565 Sep 24 01:12	0° ≙ 18'19			8566 Aug 31 22:45	0° m	
minimum elong 8565 Sep 30 20:22 15°♣10'44 1°31'55 max. Earth dist. 8565 Oct 01 22:36 17°♣35'30 1.32038 AU superior conj 8566 Sep 15 09:52 0°♣09'58 1°19'12 evening rise 8565 Oct 07 22:33 0°™.30'00 minimum elong 8566 Sep 15 07:41 29°™,57'51 1°18'54 desc. node 8565 Oct 07 16:48 0°™. 8566 Sep 15 08:04 0°♣ desc. node 8565 Oct 24 06:45 0°♣14'00 max. Earth dist. 8566 Sep 15 08:24 0°♣01'50 1.31647 AU 8566 Sep 15 08:04 0°♣0 desc. node 8565 Nov 08 22:57 20°♣03'08 27°21'36 evening rise 8566 Sep 29 16:06 0°™. retrograde 8565 Nov 22 18:50 27°♣16'44 desc. node 8566 Oct 21 00:46 0°♣ min. Earth dist. 8565 Dec 03 13:18 22°♣06'10 0.61833 AU evening max el 8565 Nov 04 23:21 9°♣09'00 2 minimum elong 8565 Dec 06 19:16 19°♣09'17 3°11'12 evening set 8566 Nov 11 18:23 7°♣10'25 morning rise 8565 Dec 16 16:14 14°♣00'37 minimum elong 8565 Dec 22 23:37 17°♣30'46 17°51'06 morning max el 8566 Nov 21 13:37 30°₹™. morning set 8565 Dec 31 21:19 0°♥ morning rise 8566 Nov 26 14:57 27°™.07'38 'C*™.07'38 'C*™.07'38 'C*™.07'38 'C*™.07'38' C*™.07'38 'C*™.07'38 'C*					asc. node	8566 Sep 06 13:36	11° m 02'05	
max. Earth dist. 8565 Oct 01 22:36 17°至35'30 1.32038 AU minimum elong 8566 Sep 15 09:52 0°至09'58 1°19'12 29'm 57'51 1°18'54 8565 Oct 07 16:48 0°肌 minimum elong 8566 Sep 15 07:41 29°m 57'51 1°18'54 0°50 ct 07 16:48 0°肌 max. Earth dist. 8566 Sep 15 08:04 0°至01'50 1.31647 AU 8565 Oct 24 03:08 0°元 evening rise 8565 Sep 2 05:00 15°至02'32 evening max el 8565 Nov 08 22:57 20°元03'08 27°21'36 8566 Sep 29 16:06 0°肌 evening set 8565 Nov 22 18:50 27°元16'44 desc. node 8566 Oct 20 00:46 0°元 evening set 8565 Nov 29 20:55 24°元57'10 8566 Oct 20 00:46 0°元 evening max el 8565 Dec 03 13:18 22°元06'10 0.61833 AU evening max el 8566 Nov 04 23:21 9°元09'02 minimum elong 8565 Dec 06 19:16 19°元09'17 3°11'12 evening set 8566 Nov 11 18:23 7°元12'55 morning rise 8565 Dec 16 01:40 14°元09'37 inferior conj 8565 Dec 16 16:14 14°元09'37 inferior conj 8565 Dec 16 16:14 14°元09'37 inferior conj 8566 Nov 19 03:27 1°元500'2 4°19'02 asc. node 8565 Dec 31 21:19 0°♂ morning rise 8565 Dec 31 21:19 0°♂ morning rise 8565 Dec 31 21:19 0°♂ morning rise 8566 Nov 28 19:52 27°几07'38 "Call all all all all all all all all all	superior conj	8565 Sep 30 22:05	15° ≏ 20'13	1°32'01	morning set	8566 Sep 08 10:20	14° ™ 55'29	
Seening rise 8565 Oct 07 22:33 0°M.30'00 minimum elong 8566 Sep 15 07:41 29°M57'51 1°18'54 Seening rise 8565 Oct 07 16:48 0°M. max. Earth dist. 8566 Sep 15 08:04 0°\to \to \to \to \to \to \to \to \to \to	minimum elong	8565 Sep 30 20:22	15° ≏ 10'44	1°31'55				
Second	max. Earth dist.	8565 Oct 01 22:36	17° ≏ 35'30	1.32038 AU	superior conj	8566 Sep 15 09:52	0° ჲ 09'58	1°19'12
Max. Earth dist. Max. Earth	evening rise	8565 Oct 07 22:33	0°M30'00		minimum elong	8566 Sep 15 07:41	29° ™ 57'51	1°18'54
evening max el 8565 Nov 08 22:57 20°\$\times 03'08 \ 27°\$21'36 evening rise 8566 Sep 29 16:06 0°\$\times 0\$\$\times 02'32 evening set 8565 Nov 22 18:50 \ 27°\$\times 16'44 \ desc. node 8566 Oct 11 03:51 18°\$\times 158'29 evening set 8565 Nov 29 20:55 24°\$\times 57'10 \ 8566 Oct 20 00:46 0°\$\times 158'29 evening set 8565 Dec 03 13:18 \ 22°\$\times 06'10 0.61833 AU evening max el 8566 Oct 20 00:46 0°\$\times 158'29 evening conj 8565 Dec 06 13:08 19°\$\times 23'14 -3°13'33 retrograde 8566 Nov 04 23:21 9°\$\times 10'9\$\times 10'		8565 Oct 07 16:48	0° M.			8566 Sep 15 08:04	0∘ ত	
evening max el 8565 Nov 08 22:57 20°元03'08 27°21'36 8566 Sep 29 16:06 0°瓜 retrograde 8565 Nov 22 18:50 27°元16'44 desc. node 8566 Oct 11 03:51 18°瓜58'29 evening set 8565 Nov 29 20:55 24°元57'10 8566 Oct 20 00:46 0°元 min. Earth dist. 8565 Dec 03 13:18 22°元06'10 0.61833 AU evening max el 8566 Oct 22 01:24 2°元01'03 26°41'25 inferior conj 8565 Dec 06 13:08 19°元23'14 -3°13'33 retrograde 8566 Nov 04 23:21 9°元09'02 minimum elong 8565 Dec 06 19:16 19°元09'17 3°11'12 evening set 8566 Nov 11 18:23 7°元12'55 morning rise 8565 Dec 13 19:51 14°元02'15 min. Earth dist. 8566 Nov 15 15:16 4°元36'59 0.59751 AU direct 8565 Dec 16 01:40 14°元00'37 inferior conj 8566 Nov 19 03:27 1°元50'02 4°19'02 morning max el 8565 Dec 22 23:37 17°元30'46 17°51'06 8566 Nov 28 19:52 27°元02'38 worning set 8566 Jan 07 17:43 12°元06'10 direct 8566 Nov 28 19:52 27°元07'38	desc. node	8565 Oct 24 06:45	0° ≯ 14'00		max. Earth dist.	8566 Sep 15 08:24	0° ≏ 01'50	1.31647 AU
retrograde 8565 Nov 22 18:50 27° **\frac{1}{3}16'44 desc. node 8566 Oct 11 03:51 18° \textit{\mathbb{m}}\textit{\mathbb{E}8'29} evening set 8565 Nov 29 20:55 24° *\frac{1}{3}57'10 8566 Oct 20 00:46 0° *\frac{1}{3}16' 18' 18' 18' 18' 18' 18' 18' 18' 18' 18		8565 Oct 24 03:08	0° ∡		evening rise	8566 Sep 22 05:00	15° ≏ 02'32	
evening set 8565 Nov 29 20:55 24°\$\frac{1}{2}\$57'10 evening max el min. Earth dist. 8565 Dec 03 13:18 22°\$\frac{1}{2}\$06'10 0.61833 AU evening max el 8566 Oct 22 01:24 2°\$\frac{1}{2}\$01'03 26°41'25 inferior conj 8565 Dec 06 13:08 19°\$\frac{1}{2}\$23'14 -3°13'33 retrograde 8566 Nov 04 23:21 9°\$\frac{1}{2}\$09'09'02 minimum elong 8565 Dec 06 19:16 19°\$\frac{1}{2}\$09'17 3°11'12 evening set 8566 Nov 11 18:23 7°\$\frac{1}{2}\$12'55 morning rise 8565 Dec 13 19:51 14°\$\frac{1}{2}\$22'22 min. Earth dist. 8566 Nov 15 15:16 4°\$\frac{1}{2}\$36'59 0.59751 AU direct 8565 Dec 16 01:40 14°\$\frac{1}{2}\$00'37 inferior conj 8566 Nov 18 20:04 2°\$\frac{1}{2}\$10'44 -4°21'12 asc. node 8565 Dec 16 16:14 14°\$\frac{1}{2}\$10'215 minimum elong 8566 Nov 19 03:27 1°\$\frac{1}{2}\$50'02 4°19'02 morning max el 8565 Dec 22 23:37 17°\$\frac{1}{2}\$30'46 17°51'06 morning rise 8566 Nov 21 13:37 30°\$\frac{1}{2}\$10.25'27 morning set 8566 Jan 07 17:43 12°\$\frac{1}{2}\$06'10 direct 8566 Nov 28 19:52 27°\$\frac{1}{1}\$07'38	evening max el	8565 Nov 08 22:57	20° ≮ °03′08	27°21'36		8566 Sep 29 16:06	0° M	
min. Earth dist. 8565 Dec 03 13:18 22° ₹06'10 0.61833 AU evening max el retrograde 8566 Oct 22 01:24 2° ₹01'03 26°41'25 retrograde 8566 Nov 04 23:21 9° ₹09'02 retrograde 8566 Nov 04 23:21 9° ₹09'02 retrograde 8566 Nov 11 18:23 7° ₹12'55 morning rise 8565 Dec 13 19:51 14° ₹22'22 min. Earth dist. 8566 Nov 15 15:16 4° ₹36'59 0.59751 AU direct 8565 Dec 16 01:40 14° ₹00'37 inferior conj 8566 Nov 18 20:04 2° ₹04'44 -4°21'12 asc. node 8565 Dec 16 16:14 14° ₹02'15 minimum elong 8566 Nov 19 03:27 1° ₹50'02 4°19'02 morning max el 8565 Dec 22 23:37 17° ₹30'46 17°51'06 morning rise 8566 Nov 21 13:37 30° R № 8565 Dec 31 21:19 0° ₹ morning rise 8566 Nov 28 19:52 27° № 25'27 morning set 8566 Jan 07 17:43 12° ₹06'10 direct 8566 Nov 28 19:52 27° № 27'38 **	retrograde	8565 Nov 22 18:50	27° ∡ 16'44		desc. node	8566 Oct 11 03:51		
inferior conj 8565 Dec 06 13:08 19°₹23'14 -3°13'33 retrograde 8566 Nov 04 23:21 9°₹09'02 minimum elong 8565 Dec 06 19:16 19°₹09'17 3°11'12 evening set 8566 Nov 11 18:23 7°₹12'55 morning rise 8565 Dec 13 19:51 14°₹22'22 min. Earth dist. 8566 Nov 15 15:16 4°₹36'59 0.59751 AU direct 8565 Dec 16 10:40 14°₹00'37 inferior conj 8566 Nov 18 20:04 2°₹04'44 -4°21'12 asc. node 8565 Dec 16 16:14 14°₹02'15 minimum elong 8566 Nov 19 03:27 1°₹5'002 4°19'02 morning max el 8565 Dec 22 23:37 17°₹30'46 17°51'06 8566 Nov 21 13:37 30°₹1 morning rise 8566 Nov 26 14:57 27°11.25'27 morning set 8566 Jan 07 17:43 12°₹06'10 direct 8566 Nov 28 19:52 27°11.07'38 '	evening set	8565 Nov 29 20:55	24° ₰ 757'10			8566 Oct 20 00:46	0° ∡ ¹	
minimum elong 8565 Dec 06 19:16 19°₹09'17 3°11'12 evening set 8566 Nov 11 18:23 7°₹12'55 morning rise 8565 Dec 13 19:51 14°₹22'22 min. Earth dist. 8566 Nov 15 15:16 4°₹36'59 0.59751 AU direct 8565 Dec 16 01:40 14°₹00'37 inferior conj 8566 Nov 18 20:04 2°₹04'44 -4°21'12 asc. node 8565 Dec 16 16:14 14°₹02'15 minimum elong 8566 Nov 19 03:27 1°₹50'02 4°19'02 morning max el 8565 Dec 22 23:37 17°₹30'46 17°51'06 8566 Nov 21 13:37 30°₹1 morning set 8566 Jan 07 17:43 12°₹06'10 direct 8566 Nov 28 19:52 27°¶.25'27 morning set	min. Earth dist.				•			26°41'25
morning rise 8565 Dec 13 19:51 14° \$\frac{1}{2}\$2'22 min. Earth dist. 8566 Nov 15 15:16 4° \$\frac{1}{2}\$36'59 0.59751 AU direct 8565 Dec 16 01:40 14° \$\frac{1}{2}\$00'37 minimum elong 8566 Nov 18 20:04 2° \$\frac{1}{2}\$04'44 -4°21'12 asc. node 8565 Dec 16 16:14 14° \$\frac{1}{2}\$02'15 minimum elong 8566 Nov 19 03:27 1° \$\frac{1}{2}\$50'02 4°19'02 morning max el 8565 Dec 22 23:37 17° \$\frac{1}{2}\$30'46 17°51'06 8566 Nov 21 13:37 30° \$\frac{1}{2}\$11.19 0° \$\frac{1}{2}\$ morning rise 8566 Nov 26 14:57 27° \$\frac{1}{2}\$2'27 morning set 8566 Jan 07 17:43 12° \$\frac{1}{2}\$06'10 direct 8566 Nov 28 19:52 27° \$\frac{1}{1}\$07'38 +	3	8565 Dec 06 13:08			retrograde	8566 Nov 04 23:21		
direct 8565 Dec 16 01:40 14°×700'37 inferior conj 8566 Nov 18 20:04 2°×704'44 -4°21'12 asc. node 8565 Dec 16 16:14 14°×702'15 minimum elong 8566 Nov 19 03:27 1°×750'02 4°19'02 morning max el 8565 Dec 22 23:37 17°×730'46 17°51'06 8566 Nov 21 13:37 30°R ル 8565 Dec 31 21:19 0°舌 morning rise 8566 Nov 26 14:57 27°ル25'27 morning set 8566 Jan 07 17:43 12°る06'10 direct 8566 Nov 28 19:52 27°ル07'38	•	8565 Dec 06 19:16		3°11'12	Č			
asc. node 8565 Dec 16 16:14 14° 水02'15 minimum elong 8566 Nov 19 03:27 1° 水50'02 4°19'02 morning max el 8565 Dec 22 23:37 17° 水30'46 17°51'06 8566 Nov 21 13:37 30°R ル soft Dec 31 21:19 0° 舌 morning rise 8566 Nov 26 14:57 27° ル25'27 morning set 8566 Jan 07 17:43 12° るの6'10 direct 8566 Nov 28 19:52 27° ル07'38	•	8565 Dec 13 19:51				8566 Nov 15 15:16		
morning max el 8565 Dec 22 23:37 17°ズ30'46 17°51'06 8566 Nov 21 13:37 30°R ML 8565 Dec 31 21:19 0°舌 morning rise 8566 Nov 26 14:57 27°M 25'27 morning set 8566 Jan 07 17:43 12°Ӡ06'10 direct 8566 Nov 28 19:52 27°M 07'38					•			
8565 Dec 31 21:19 0°る morning rise 8566 Nov 26 14:57 27° M25'27 morning set 8566 Jan 07 17:43 12°る06'10 direct 8566 Nov 28 19:52 27° M07'38					minimum elong			4°19'02
morning set 8566 Jan 07 17:43 12° ♂ 06'10 direct 8566 Nov 28 19:52 27° ™ 07'38	morning max el	8565 Dec 22 23:37		17°51'06				
		8565 Dec 31 21:19			•			
8566 Jan 17 20:19 0°≈ asc. node 8566 Dec 03 13:15 28° M .34'04	morning set							
		8566 Jan 17 20:19	0° ≈		asc. node	8566 Dec 03 13:15	28°M34'04	

	8566 Dec 05 12:00	0° ∡ ¹		morning set	8567 Dec 06 03:16	10° ∡ 11'58	
morning max el	8566 Dec 06 11:38	0° ≯ 754'03	18°12'14				
morning set	8566 Dec 22 05:20	25° ∡ 55′04		superior conj	8567 Dec 14 14:09	26° ∡ ¹41'54	1°12'41
	8566 Dec 24 09:14	0°る		minimum elong	8567 Dec 14 17:24	26° ₹ 57'23	1°12'29
		_			8567 Dec 16 08:04	0°₹	
superior conj	8566 Dec 31 17:05	13° ⋜ 34'21	0°46'46	max. Earth dist.	8567 Dec 21 14:26	9° ට 37'12	1.39182 AU
minimum elong	8566 Dec 31 20:12	13° る 48'29	0°46'31	desc. node	8567 Dec 24 23:51	15° පි 32'51	
desc. node	8567 Jan 07 02:52	24° る 50'21		evening rise	8567 Dec 25 11:55	16° පි 24'28	
max. Earth dist.	8567 Jan 08 08:17	26° る 55'26	1.41320 AU		8568 Jan 02 19:08	0° ≈	
	8567 Jan 10 04:16	0° ≈			8568 Jan 24 05:11	0° ∀	2 402 411 0
evening rise	8567 Jan 13 05:31	5°≈01'13		evening max el	8568 Jan 29 16:51	6° ₩ 01'29	24°24'18
·	8567 Jan 29 14:25	0°){	22004124	retrograde	8568 Feb 10 02:27	12° 	
evening max el	8567 Feb 16 03:08	22°) 15'49	23*04*31	evening set	8568 Feb 15 12:39		
retrograde	8567 Feb 26 10:27	28°\(\frac{1}{22}\)'07 27°\(\frac{1}{35}\)'13		asc. node min. Earth dist.	8568 Feb 16 09:22	9° ∺ 38'53 5° ∺ 08'19	0.68067 AU
asc. node	8567 Mar 01 12:16 8567 Mar 03 08:21	26° X 19'54			8568 Feb 20 03:58 8568 Feb 21 01:03	3° X 57'36	1°28'30
evening set inferior conj	8567 Mar 08 17:31	26 X 1934 19° X 54'18	2°10'08	inferior conj minimum elong	8568 Feb 20 23:12		1°27'56
minimum elong	8567 Mar 08 15:17	19 X 34 18 20° X 02'01	2°09'30	minimum elong	8568 Feb 24 04:45	4 \(\chi_03\) 30°R\(\pi\)	1 2/30
min. Earth dist.	8567 Mar 08 07:55	20° X 27'31	0.68421 AU	morning rise	8568 Feb 26 09:50	30 k∞ 27°≈56'54	
morning rise	8567 Mar 13 22:09	13°) 47'10	0.06421 AU	direct	8568 Mar 01 06:10	26°≈32'16	
direct	8567 Mar 18 07:36	12° H 00'35		direct	8568 Mar 08 00:11	0° ₩	
morning max el	8567 Mar 26 22:55	17° \(\) 00'15	21°17'52	morning max el	8568 Mar 08 21:03	0°) 49′51	20°04'08
desc. node	8567 Apr 05 02:41	28° H 03'49	21 1/32	desc. node	8568 Mar 21 23:35	17°) (47'00	20 04 00
desc. node	8567 Apr 06 12:46	0°Υ		dese. Hode	8568 Mar 30 04:30	0°Υ	
	8567 Apr 26 16:49	0°8		morning set	8568 Apr 05 04:07	9° Υ 08'58	
morning set	8567 Apr 27 05:00	0° 8 48'00		max. Earth dist.	8568 Apr 15 14:07	25° Y 28'53	1.44070 AU
max. Earth dist.	8567 May 04 05:00	12° 8 03'08	1.42372 AU	man. Bartir digt.	8568 Apr 18 09:39	0°8	1.1.0,0110
man zarin dist.	0007 11 14 3 01 00.00	12 000 00	1.12072110		000011p1 10 09.59	ů O	
superior conj	8567 May 11 13:23	24° 8 23'20	-2°00'59	superior conj	8568 Apr 21 04:45	4° 8 32'36	-2°11'55
minimum elong	8567 May 11 18:37	24° 8 45'50		minimum elong	8568 Apr 21 05:38	4° 8 36'10	2°12'01
· ·	8567 May 14 18:58	$\Pi^{\circ}0$		evening rise	8568 May 04 05:29	26° 8 28'11	
evening rise	8567 May 22 21:50	14° Ⅲ 31′07		-	8568 May 06 06:41	$\Pi^{\circ}0$	
asc. node	8567 May 28 11:05	24° ∏ 28'32		asc. node	8568 May 14 08:10	13° Ⅱ 32'06	
	8567 May 31 16:52	0 \circ \mathfrak{s}		evening max el	8568 May 21 21:35	23° II 40'02	18°07'58
evening max el	8567 Jun 08 08:16	10° 5 24'47	18°07'14	retrograde	8568 May 28 07:10	27° Ⅱ 00'43	
retrograde	8567 Jun 15 02:19	13° © 50'53		evening set	8568 May 31 02:29	26° Ⅱ 20'35	
evening set	8567 Jun 17 14:08	13° 5 23'07		inferior conj	8568 Jun 06 07:27	21° Ⅱ 07'57	2°51'46
inferior conj	8567 Jun 24 09:16	8° 5 29'35	2°05'54	minimum elong	8568 Jun 06 09:56	21° II 01'19	2°51'06
minimum elong	8567 Jun 24 12:17	8° 5 22'31	2°04'50	min. Earth dist.	8568 Jun 09 03:14	18° 耳 08'38	0.62642 AU
min. Earth dist.	8567 Jun 27 15:53	5° © 27'00	0.60420 AU	morning rise	8568 Jun 12 15:40	14° ∏ 59'45	
morning rise	8567 Jul 01 07:42	2° 5 37'17		desc. node	8568 Jun 17 23:15	12° Ⅱ 35'55	
desc. node	8567 Jul 02 02:13	2° 5 09'34		direct	8568 Jun 19 09:57	12° Ⅱ 29'17	
direct	8567 Jul 07 21:00	0° © 31'34		morning max el	8568 Jul 03 11:21	20° Ⅱ 31'55	27°53'12
morning max el	8567 Jul 22 04:46	8° 5 28'38	27°48'29		8568 Jul 11 14:46	0ංම	
	8567 Aug 07 15:42	0 \circ Ω			8568 Jul 30 16:35	0 \circ Ω	
morning set	8567 Aug 23 15:35	29° Ω 18'54		morning set	8568 Aug 06 14:47	13° Ω 21'30	
_	8567 Aug 23 23:28	0° m/y		asc. node	8568 Aug 10 07:29	21° Ω 00'45	
asc. node	8567 Aug 24 10:32	0° Mp 57'51	1 21720 ATT	max. Earth dist.	8568 Aug 11 23:15	24° Ω 32'36	1.32269 AU
max. Earth dist.	8567 Aug 29 17:54	12° m 24'49	1.31720 AU		0560 A 14 05.50	200 027150	0920101
superior con:	8567 Aug 30 21:05	14° m 54'47	1°01'25	superior conj minimum elong	8568 Aug 14 05:50 8568 Aug 14 04:09	29° Ω 27'58 29° Ω 18'47	0°39'01 0°38'33
superior conj minimum elong	8567 Aug 30 21:03 8567 Aug 30 18:53	14 my 34 47 14° my 42'40	1°00'58	minimum elong	8568 Aug 14 04.09 8568 Aug 14 11:43	29 3 (1847 0° m)	0 38 33
evening rise	8567 Sep 06 14:59	29° Mp 43'00	1 00 38	evening rise	8568 Aug 21 02:32	14° m) 24'35	
evening rise	8567 Sep 06 18:10	0° ⊽		evening rise	8568 Aug 28 20:14	0° ⊽	
	8567 Sep 23 02:35	0° m .		desc. node	8568 Sep 13 22:05	23° ₽ 09'36	
desc. node	8567 Sep 28 00:58	6°M44'50		evening max el	8568 Sep 14 08:13	23° ₽ 34'22	23°55'50
evening max el	8567 Oct 03 19:58	13°M08'34	25°29'37	evening max er	8568 Sep 24 17:16	0° M	23 33 37
retrograde	8567 Oct 17 17:56	20°M10'22	20 25 37	retrograde	8568 Sep 28 00:03	0°M24'34	
evening set	8567 Oct 23 17:48	18°M47'16			8568 Oct 01 07:53	30°R ≏	
min. Earth dist.	8567 Oct 28 08:08	16°M09'17	0.57710 AU	evening set	8568 Oct 02 16:28	29° £ 36'32	
inferior conj	8567 Oct 31 08:12	14°M05'03		min. Earth dist.	8568 Oct 08 18:47	26° £ 38'06	0.55994 AU
minimum elong	8567 Oct 31 13:58	13°M55'03		inferior conj	8568 Oct 10 23:58	25° £ 17'23	
morning rise	8567 Nov 08 12:29	9° ™ 48'25		minimum elong	8568 Oct 10 23:49	25° ≙ 17'37	
direct	8567 Nov 10 21:13	9° ™ 31'24		morning rise	8568 Oct 19 09:15	21° ≏ 20'28	
morning max el	8567 Nov 19 15:33	13°M43'46	18°54'16	direct	8568 Oct 22 03:23	21° ≏ 01'05	
asc. node	8567 Nov 20 10:14	14°M30'28		morning max el	8568 Nov 01 07:54	25° ≏ 49'00	19°58'44
	8567 Nov 30 19:30	0° ∡ ¹			8568 Nov 05 02:17	0° M ₊	

1-	8568 Nov 06 07:13	1°M.35'41		Ji	8569 Oct 02 17:16	1° £ 33'56	
asc. node				direct			2192457
morning set	8568 Nov 19 08:04	24°M46'51		morning max el	8569 Oct 14 11:05	7° Ω 04'54	21°24'5/
	8568 Nov 21 21:25	0°⊀		asc. node	8569 Oct 24 04:11	19° ≙ 34'55	
					8569 Oct 29 23:54	0° M	
superior conj	8568 Nov 27 01:35	10° ≯ 30′00	1°29'49	morning set	8569 Nov 03 17:07	9° ™ 32'05	
minimum elong	8568 Nov 27 03:56	10° ≯ 41'43	1°29'47				
max. Earth dist.	8568 Dec 02 20:40	21° ∡ ⁴45'48	1.37042 AU	superior conj	8569 Nov 10 23:15	24°M46'44	1°38'59
evening rise	8568 Dec 06 15:13	28° ∡ ¹42'54		minimum elong	8569 Nov 11 00:18	24°M52'14	1°39'06
	8568 Dec 07 08:25	0°ರ			8569 Nov 13 12:07	0° ∡ ¹	
desc. node	8568 Dec 10 20:54	6° ප 09'14		max. Earth dist.	8569 Nov 15 07:48	3° ∡ ¹40′06	1.35122 AU
	8568 Dec 26 03:05	0° ≈		evening rise	8569 Nov 19 11:55	11° ∡ ¹47'08	
evening max el	8569 Jan 11 06:07	19° ≈ 49'49	25°37'52	desc. node	8569 Nov 27 17:57	26° х 34′40	
retrograde	8569 Jan 23 13:51	26°≈53'57			8569 Nov 29 19:11	0°る	
evening set	8569 Jan 29 12:44	24°≈27'01			8569 Dec 21 08:46	0° ≈	
asc. node	8569 Feb 02 06:27	20°≈29'13		evening max el	8569 Dec 24 19:27	3°≈33'53	26°37'54
			0.67327 AU	•			20 37 34
min. Earth dist.	8569 Feb 02 21:02	19°≈43'43		retrograde	8570 Jan 06 19:49	10°≈50'54	
inferior conj	8569 Feb 04 05:34	18°≈00'02	0°38'42	evening set	8570 Jan 13 06:43	8°≈16'30	
minimum elong	8569 Feb 04 04:36	18° ≈ 03'05	0°38'28	min. Earth dist.	8570 Jan 17 08:46	4° ≈ 07'59	0.66214 AU
morning rise	8569 Feb 09 20:55	12° ≈ 07'47		inferior conj	8570 Jan 19 04:58	1° ≈ 56'46	-0°18'52
direct	8569 Feb 13 05:27	11° ≈ 03'08		minimum elong	8570 Jan 19 05:29	1° ≈ 55'14	0°18'29
morning max el	8569 Feb 20 03:08	14° ≈ 50'31	19°05'06	asc. node	8570 Jan 20 03:32	0° ≈ 50'19	
	8569 Mar 03 15:45	0° ∀			8570 Jan 20 21:13	30°Ŗる	
greatest brilliancy	8569 Mar 05 16:40	3°) €03'54	-0.7m	morning rise	8570 Jan 25 05:11	26° ප 15'16	
desc. node	8569 Mar 08 20:30	7° ¥ 53'08		direct	8570 Jan 28 03:26	25° る 27'32	
morning set	8569 Mar 15 07:03	17°) 49'49		morning max el	8570 Feb 03 15:42	28° る 57'02	18°22'17
morning sec	8569 Mar 23 02:54	0°Υ		morning max or	8570 Feb 04 15:58	0°≈	10 22 17
may Earth dist	8569 Mar 29 05:53		1.45165 AU	morning set	8570 Feb 23 10:15	0 ∞ 27°≈46'45	
max. Earth dist.	8309 Mai 29 03.33	9 1 33 12	1.43103 AU	morning set			
	05/03/	1200014150	200 4120	desc. node	8570 Feb 23 17:26	28°≈15'28	
superior conj	8569 Mar 31 21:14	13° Y 44′50			8570 Feb 24 19:38	0° ∀	
minimum elong	8569 Mar 31 15:02	13° Y 20′21	2°04'12				
	8569 Apr 11 01:00	0°8		superior conj	8570 Mar 11 02:15	22° 升 32'46	
evening rise	8569 Apr 15 14:53	7° 8 27'50		minimum elong	8570 Mar 10 16:38	21° ¥ 55′07	1°36'06
	8569 Apr 29 17:42	Π $^{\circ}0$		max. Earth dist.	8570 Mar 12 01:15	24°) €02'49	1.45543 AU
asc. node	8569 May 01 05:16	2° Ⅱ 05'00			8570 Mar 15 20:35	$0^{\circ}\mathbf{\Upsilon}$	
evening max el	8569 May 05 10:27	7° Ⅱ 08'39	18°27'06	evening rise	8570 Mar 27 00:53	17° Ƴ 31'20	
retrograde	8569 May 11 21:16	10° Ⅱ 37'57		C	8570 Apr 03 23:40	0° ႘	
evening set	8569 May 14 23:57	9° Ⅱ 44'02		greatest brilliancy	8570 Apr 06 07:55	3° 8 38'11	-0.8m
inferior conj	8569 May 20 18:43	4° Ⅱ 13'43	3°15'51	asc. node	8570 Apr 18 02:22	19° 8 56'52	0.011
minimum elong	8569 May 20 19:59		3°15'33	evening max el	8570 Apr 18 20:12	20° 8 43'30	10003146
Č	•		0.64628 AU	•	•	_	19 03 40
min. Earth dist.	8569 May 22 23:50		0.04028 AU	retrograde	8570 Apr 25 16:53	24° 8 34'08	
	8569 May 24 11:13	30° ₹8		evening set	8570 Apr 29 03:13	23° 8 25'43	
morning rise	8569 May 26 15:06	27° 8 57'43		inferior conj	8570 May 04 15:20	17° 8 39'20	
direct	8569 Jun 02 07:02	25° 8 13'45		minimum elong	8570 May 04 15:17	17° 8 39'29	3°22'37
desc. node	8569 Jun 04 20:16	25° 8 34'57		min. Earth dist.	8570 May 06 05:05	15° 8 38'58	0.66241 AU
	8569 Jun 12 10:43	Π $\circ 0$		morning rise	8570 May 10 02:55	11° 8 20'52	
morning max el	8569 Jun 15 21:11	3° Ⅱ 11'17	27°22'14	direct	8570 May 16 10:58	8° 8 35'13	
	8569 Jul 05 23:57	0°ಲ		desc. node	8570 May 22 17:15	10° 8 42'50	
morning set	8569 Jul 21 05:22	26° © 56'27		morning max el	8570 May 29 07:44	16° 8 14'52	26°22'24
	8569 Jul 22 18:34	$0^{\circ}\Omega$			8570 Jun 09 16:30	$\Pi^{\circ}0$	
max. Earth dist.	8569 Jul 25 20:53	6° Ω 16'58	1.33305 AU		8570 Jun 28 20:55	0ಂಣ	
asc. node	8569 Jul 28 04:29	11° Ω 06'50		morning set	8570 Jul 04 07:57	9° © 54'13	
	0000 001 20 01.20	11 000000		max. Earth dist.	8570 Jul 08 08:02	17° © 34'43	1.34815 AU
superior conj	8569 Jul 29 10:10	13° Ω 43'54	0012120	max. Earth dist.	0370 341 00 00.02	17 334 43	1.54015710
					0570 I-1 12 07-27	2796-25121	0017125
minimum elong	8569 Jul 29 09:33	13° Ω 40'36	0-12-11	superior conj	8570 Jul 13 07:37	27°535'31	
behind sun begin	8569 Jul 29 05:57	13° Ω 21′28		minimum elong	8570 Jul 13 08:37	27° © 40'39	0°17'23
behind sun end	8569 Jul 29 13:09	13° Ω 59'44			8570 Jul 14 11:39	0°Ω	
evening rise	8569 Aug 05 13:46	29° Ω 01'56		asc. node	8570 Jul 15 01:30	1° Ω 11'47	
	8569 Aug 06 00:46	0° ™		evening rise	8570 Jul 20 22:40	13° Ω 28'37	
	8569 Aug 23 10:19	0。 ত			8570 Jul 29 10:35	0° ™	
evening max el	8569 Aug 26 20:55	3° ≏ 46'46	22°16'40	evening max el	8570 Aug 08 18:42	14° m 21'05	20°47'10
desc. node	8569 Aug 31 19:13	7° ≏ 43'42		desc. node	8570 Aug 18 16:19	19° m 56'10	
retrograde	8569 Sep 08 17:59	10° £ 11′28		retrograde	8570 Aug 20 06:21	20° m 02'28	
evening set	8569 Sep 11 22:35	9° ≏ 48'57		evening set	8570 Aug 22 09:56	19° m 51'20	
min. Earth dist.	8569 Sep 20 02:51	6° ≏ 14'17	0.54917 AU	inferior conj	8570 Aug 31 15:13	15° m 54'32	-3°45'53
inferior conj	8569 Sep 20 22:44	5° Ω 46'19		minimum elong	8570 Aug 31 05:51		
minimum elong	8569 Sep 20 22:44 8569 Sep 20 15:16	5° £ 56'50		min. Earth dist.	8570 Sep 01 11:52	15° Mp 25'03	0.54713 AU
•	•		J 0047			-•	0.54/13 AU
morning rise	8569 Sep 29 09:37	1° £ 58'36		morning rise	8570 Sep 09 01:48	11° Mp 56'02	

direct	8570 Sep 13 01:16	11° m 22'09		min. Earth dist.	8571 Aug 13 23:54	240 \OA5'47	0.55469 AU
morning max el	8570 Sep 15 01:10 8570 Sep 26 03:45	17° m) 39'19	23°07'06	morning rise	8571 Aug 19 22:32	24 δ (43 47) 21° Ω 45'27	0.55409 AU
morning max er	8570 Sep 20 03:43 8570 Oct 06 02:33	0° ⊡	23 07 00	direct	8571 Aug 24 17:08	21° Ω 54'31	
asc. node	8570 Oct 06 02.33 8570 Oct 11 01:10	0 <u>₽</u> 8° ₽ 15'35			-	20 δ <i>t</i> 34 31 27° Ω 53'04	24052120
				morning max el	8571 Sep 07 16:06		24 32 38
morning set	8570 Oct 19 04:25	24° £ 22'05		,	8571 Sep 09 18:35	0°Mp	
	8570 Oct 21 19:35	0° M ₊		asc. node	8571 Sep 27 22:08	27° m/26'39	
					8571 Sep 29 05:26	0∘ ⊽	
superior conj	8570 Oct 26 03:55	9°M22'50	1°41'06	morning set	8571 Oct 03 16:07	9° ≏ 10'38	
minimum elong	8570 Oct 26 03:43	9°M21'41	1°41'14			_	
max. Earth dist.	8570 Oct 29 02:41	15°M38'31	1.33572 AU	superior conj	8571 Oct 10 12:57	24° Ω 09'19	1°37'00
evening rise	8570 Nov 02 22:10	25°M27'48		minimum elong	8571 Oct 10 11:42	24° Ω 02'23	1°37'00
	8570 Nov 05 06:05	0° ∡ ¹		max. Earth dist.	8571 Oct 12 05:18	27° Ω 49'34	1.32461 AU
desc. node	8570 Nov 14 15:01	16° ∡ ⁴43'36			8571 Oct 13 05:23	0° M	
	8570 Nov 23 05:44	0°₹		evening rise	8571 Oct 17 18:28	9°M34'45	
evening max el	8570 Dec 07 08:18	17° る 04'15	27°17'12		8571 Oct 28 14:23	0° √	
retrograde	8570 Dec 20 19:55	24°る25'07		desc. node	8571 Nov 01 12:06	6° ₹ 27'59	
evening set	8570 Dec 27 16:27	21° る 49'26			8571 Nov 19 15:28	0°る	
min. Earth dist.	8570 Dec 31 13:02	18° ට 14'27	0.64747 AU	evening max el	8571 Nov 19 19:08	0° る 08'43	27°29'12
inferior conj	8571 Jan 02 20:56	15° ප් 42'42	-1°23'18	retrograde	8571 Dec 03 13:21	7° る 26'31	
minimum elong	8571 Jan 02 23:28	15° る 35'49	1°22'04	evening set	8571 Dec 10 15:06	4° ප 58'11	
asc. node	8571 Jan 07 00:35	11° る 40'20		min. Earth dist.	8571 Dec 14 07:59	1° る 52'59	0.62967 AU
morning rise	8571 Jan 09 08:01	10° ට 14'38			8571 Dec 16 06:32	30°₽ ⋌ ¹	
direct	8571 Jan 11 21:53	9° ප් 40'03		inferior conj	8571 Dec 17 02:41	29° ∡ 10′27	-2°32'45
morning max el	8571 Jan 18 08:13	13° る 02'38	17°56'17	minimum elong	8571 Dec 17 07:33	28° ≯ ¹58'33	2°30'41
· ·	8571 Jan 30 06:18	0° ≈		morning rise	8571 Dec 24 02:04	23° х 58'40	
morning set	8571 Feb 04 18:55	9° ≈ 11'18		asc. node	8571 Dec 24 21:37	23° х 44′08	
desc. node	8571 Feb 10 14:24	18° ≈ 49'25		direct	8571 Dec 26 09:51	23° х 33'22	
	8571 Feb 17 11:40	0° ∀		morning max el	8572 Jan 02 01:34	26° ₹ 58'33	17°47'41
	00/11/00/1/ 11:10	٠,٨		morning mun vi	8572 Jan 04 17:25	0°ප	1, 1, 11
superior conj	8571 Feb 18 15:05	1°) 49'37	-0°56'02	morning set	8572 Jan 18 04:22	21° පි 47'01	
minimum elong	8571 Feb 18 08:39	1°) €23'57	0°55'04	morning set	8572 Jan 22 21:31	0°≈	
max. Earth dist.	8571 Feb 22 20:50	8° ∺ 32'49	1.45172 AU	desc. node	8572 Jan 28 11:20	0 ~ 9° ≈ 30'14	
evening rise	8571 Mar 06 17:06	26° H 57'20	1. 4 31/2 AO	desc. flode	03/2 Juli 20 11.20) ~30 1 4	
evening rise	8571 Mar 08 16:41	20 γ (3/20		superior conj	8572 Jan 30 01:52	12° ≈ 11'08	0011147
araataat brillianav	8571 Mar 21 06:22	18° Y 57'52	-0.6m		8572 Jan 30 00:40	12 ≈11 08 12°≈06'09	0°11'26
greatest brilliancy		0° 8	-0.0111	minimum elong		12 ≈00 09 11°≈38'51	0 11 26
	8571 Mar 29 06:00	_	10056120	behind sun begin	8572 Jan 29 18:06		
evening max el	8571 Apr 02 01:10	4° 8 21'31	19°56'30	behind sun end	8572 Jan 30 07:13	12°≈33'25	1 44100 411
asc. node	8571 Apr 04 23:27	6° 8 55'58		max. Earth dist.	8572 Feb 05 14:00	22°≈48'25	1.44102 AU
retrograde	8571 Apr 09 15:05	8° 8 43'59			8572 Feb 10 02:52	0° ∀	
evening set	8571 Apr 13 09:51	7° 8 20'40	201 (102	evening rise	8572 Feb 14 04:33	6°) 19'46	
inferior conj	8571 Apr 18 18:19	1° 8 20'08	3°16'02		8572 Mar 01 00:52	0°Υ	
minimum elong	8571 Apr 18 17:11	1° 8 23'58	3°15'49	evening max el	8572 Mar 15 00:39	18° Y 01'22	21°02'50
min. Earth dist.	8571 Apr 19 17:29	0° 8 02'07	0.67422 AU	asc. node	8572 Mar 21 20:32	22° Y 47'54	
	8571 Apr 19 18:07	30° ₹ Υ		retrograde	8572 Mar 23 13:34	23°Y02'46	
morning rise	8571 Apr 24 00:14	25° Y 02′28		evening set	8572 Mar 27 17:55	21° Y 24'17	
direct	8571 Apr 29 20:55	22° Y 25'31		inferior conj	8572 Apr 02 01:09	15° Y 11'53	
desc. node	8571 May 09 14:15	27° Y 29'07		minimum elong	8572 Apr 01 23:16	15° Y 18′24	
morning max el	8571 May 11 17:21		25°02'55	min. Earth dist.	8572 Apr 02 10:53	14° Y 38'12	0.68153 AU
	8571 May 12 04:18	0°8		morning rise	8572 Apr 07 04:25	8° Y 57'12	
	8571 Jun 03 12:43	$\Pi^{\circ}0$		direct	8572 Apr 12 11:50	6° Ƴ 36'35	
morning set	8571 Jun 16 18:04	22° Ⅱ 03'12		morning max el	8572 Apr 23 02:33	12° Y 56′19	23°34'05
max. Earth dist.	8571 Jun 20 08:56	28° Ⅱ 37'57	1.36753 AU	desc. node	8572 Apr 25 11:12	15° Y 27′13	
	8571 Jun 21 02:36	0 \circ			8572 May 06 20:07	9° 8	
					8572 May 26 09:14	Π °0	
superior conj	8571 Jun 26 19:16	10° © 55'24	-0°49'16	morning set	8572 May 28 06:22	3° Ⅱ 09'32	
minimum elong	8571 Jun 26 22:18	11° © 10'18	0°48'54	max. Earth dist.	8572 Jun 01 04:51	9° ∏ 56'33	1.38969 AU
asc. node	8571 Jul 01 22:30	21° © 11'37					
evening rise	8571 Jul 05 02:55	27° © 38'05		superior conj	8572 Jun 08 17:29	23° Ⅲ 35′11	-1°20'50
	8571 Jul 06 07:11	$0^{\circ}\Omega$		minimum elong	8572 Jun 08 22:29	23° Ⅱ 58'39	1°20'18
evening max el	8571 Jul 22 05:48	25° Ω 37'51	19°35'55		8572 Jun 12 02:43	0 \circ \odot	
	8571 Jul 28 23:13	0° m		evening rise	8572 Jun 17 23:47	11° © 23'21	
retrograde	8571 Aug 01 00:27	0° ™ 27'36		asc. node	8572 Jun 17 19:31	11° © 02'35	
evening set	8571 Aug 02 20:45	0° m/ 18'01			8572 Jun 28 06:25	$0^{\circ}\Omega$	
		_			0572 1-1 04 05.00	7° Ω 39'17	10045125
	8571 Aug 04 04:29	30° ŖΩ		evening max el	8572 Jul 04 05:00	1 063911	18 43 23
desc. node	8571 Aug 04 04:29 8571 Aug 05 13:25	30°R Ω 29° Ω 32'25		retrograde	8572 Jul 12 10:40	11° Ω 44'24	16 43 23
desc. node inferior conj	-		-1°52'13	-			18 43 23
	8571 Aug 05 13:25	29° Ω 32'25		retrograde	8572 Jul 12 10:40	11° Ω 44'24	

minimum elong	8572 Jul 22 11:25	7° Ω 09'22	0°00'52	evening set	8573 Jun 26 23:43	23° © 30'33	
transit middle	8572 Jul 22 11:25	7° Ω 09'22	0°00'53	inferior conj	8573 Jul 04 04:45	18° © 48'20	1°27'43
transit begin	8572 Jul 22 07:44	7°Ω16'07	0 00 33	minimum elong	8573 Jul 04 07:22	18° 9 42'42	1°26'40
transit eegin	8572 Jul 22 15:06	7° Ω 02'37		min. Earth dist.	8573 Jul 07 14:01	15°955'03	0.59134 AU
desc. node	8572 Jul 22 10:30	7°Ω11'04		desc. node	8573 Jul 09 07:34	14°934'58	0.57151110
min. Earth dist.	8572 Jul 25 16:02	4° Ω 49'45	0.57047 AU	morning rise	8573 Jul 11 11:52	13° © 10'26	
morning rise	8572 Jul 30 08:28	2°Ω03'50	0.07017110	direct	8573 Jul 17 18:54	11°522'23	
direct	8572 Aug 04 23:18	0° Ω 46'46		morning max el	8573 Aug 01 03:49	19° © 10'41	27°28'25
morning max el	8572 Aug 19 06:48	8°Ω15'23	26°24'43		8573 Aug 10 07:52	$0^{\circ}\Omega$	_, _, _,
	8572 Sep 04 14:28	0° m/			8573 Aug 28 07:24	0° m)	
asc. node	8572 Sep 13 19:06	16° m 59'58		asc. node	8573 Aug 31 16:02	6° Mp 48'47	
morning set	8572 Sep 17 02:39	23° m 53'01		morning set	8573 Sep 01 10:20	8° m) 24'21	
	8572 Sep 19 22:37	$0 \circ \overline{\mathbf{v}}$		max. Earth dist.	8573 Sep 07 23:34	22° m) 38'14	1.31624 AU
	ī				1	•	
superior conj	8572 Sep 24 00:16	8° ≏ 59'25	1°27'13	superior conj	8573 Sep 08 12:00	23° Mp 47'13	1°12'15
minimum elong	8572 Sep 23 22:18	8° ≏ 48'31	1°27'02	minimum elong	8573 Sep 08 09:45	23° Mp 34'45	1°11'52
max. Earth dist.	8572 Sep 24 13:24	10° £ 12'10	1.31813 AU		8573 Sep 11 07:14	0∘ ⊽	
evening rise	8572 Sep 30 21:55	24° ♀ 00'02		evening rise	8573 Sep 15 06:07	8° ≏ 36'28	
Č	8572 Oct 03 19:49	0°M,		C	8573 Sep 26 05:43	0° M	
desc. node	8572 Oct 18 09:10	25°M37'53		desc. node	8573 Oct 05 06:17	13° M 59'44	
	8572 Oct 21 09:35	0° ∡ ¹		evening max el	8573 Oct 14 01:02	24° M 11'46	26°14'27
evening max el	8572 Nov 01 01:37	12° ∡ ³34'46	27°08'45		8573 Oct 22 06:41	0° ∡ ¹	
retrograde	8572 Nov 14 22:54	19° ∡ ¹45'53		retrograde	8573 Oct 27 23:06	1° ∡ 16'26	
evening set	8572 Nov 21 23:02	17° ∡ ³35′20		C	8573 Nov 02 13:41	30°₽ M	
min. Earth dist.	8572 Nov 25 16:22	14° ₹ 52'05	0.60957 AU	evening set	8573 Nov 03 11:39	29°MJ33'42	
inferior conj	8572 Nov 28 18:58	12° √ 11'49	-3°43'09	min. Earth dist.	8573 Nov 07 14:08	26°M59'14	0.58862 AU
minimum elong	8572 Nov 29 01:51	11° ∡ 757'00	3°40'45	inferior conj	8573 Nov 10 18:17	24°ML37'07	-4°46'30
morning rise	8572 Dec 06 07:02	7° √ 19'31		minimum elong	8573 Nov 11 01:27	24°M23'39	4°44'45
direct	8572 Dec 08 11:53	6° ₹ 159'52		morning rise	8573 Nov 18 17:35	20°ML07'13	
asc. node	8572 Dec 10 18:40	7° ∡ ¹21'49		direct	8573 Nov 20 23:38	19° ™ 49'59	
morning max el	8572 Dec 15 16:29	10° ∡ ³36′10	17°57'32	asc. node	8573 Nov 27 15:40	22°MJ31'13	
	8572 Dec 28 11:21	8°0		morning max el	8573 Nov 29 01:26	23°M46'11	18°27'27
morning set	8572 Dec 31 08:05	5° る 14'22			8573 Dec 04 02:49	0° ∡ ¹	
				morning set	8573 Dec 15 00:40	19° ∡ 17'23	
superior conj	8573 Jan 10 14:07	23° る 45'22	0°27'45		8573 Dec 20 14:49	8°0	
minimum elong	8573 Jan 10 16:22	23° る 55'12	0°27'35				
desc. node	8573 Jan 14 08:16	0° ≈ 14'27		superior conj	8573 Dec 24 00:45	6° る 23'42	0°58'52
	8573 Jan 14 04:52	0° ≈		minimum elong	8573 Dec 24 04:07	6° る 39'14	0°58'36
max. Earth dist.	8573 Jan 18 03:17	6° ≈ 36'07	1.42461 AU	max. Earth dist.	8573 Dec 31 12:13		1.40430 AU
evening rise	8573 Jan 24 02:25	16° ≈ 15′17		desc. node	8574 Jan 01 05:15	20°る58'59	
	8573 Feb 02 00:31	0° ℋ		evening rise	8574 Jan 04 20:10	27° る 05'20	
	8573 Feb 24 04:01	0 ° $\mathbf{\Upsilon}$			8574 Jan 06 14:39	0° ≈	
evening max el	8573 Feb 25 19:07	1° Ƴ 42'50	22°18'42		8574 Jan 26 15:50	0° ∀	
retrograde	8573 Mar 07 10:30	7° Y 25'33		evening max el	8574 Feb 08 10:05	15°) €27'33	23°38'43
asc. node	8573 Mar 08 17:38	7° Ƴ 17'04		retrograde	8574 Feb 19 04:36	21°) (48′48	
evening set	8573 Mar 12 01:43	5° Ƴ 31'53		asc. node	8574 Feb 23 14:44	20° ∺ 14'11	
	8573 Mar 16 19:26	30° ₹ ₩		evening set	8574 Feb 24 07:47	19° ∺ 40'31	
inferior conj	8573 Mar 17 09:44	29° ∺ 10′20	2°30'13	min. Earth dist.	8574 Mar 01 03:38	14° ∺ 02'59	0.68327 AU
minimum elong	8573 Mar 17 07:30	29°) 18′06	2°29'39	inferior conj	8574 Mar 01 18:11	13°) 13′14	1°53'30
min. Earth dist.	8573 Mar 17 07:00	29° ∺ 19'52	0.68449 AU	minimum elong	8574 Mar 01 16:03	13° ¥ 20′33	1°52'52
morning rise	8573 Mar 22 13:07	23° ₭ 00'10		morning rise	8574 Mar 07 00:18	7°) €08'53	
direct	8573 Mar 27 06:36	21° ∺ 00′31		direct	8574 Mar 11 04:07	5°) (31′45	
morning max el	8573 Apr 05 14:13	26° ∺ 27'59	22°05'31	morning max el	8574 Mar 19 08:04	10°) 11′36	20°44'53
	8573 Apr 08 20:12	0°Υ		desc. node	8574 Mar 30 05:01	23°) 43′26	
desc. node	8573 Apr 12 08:06	4° Υ 16'32			8574 Apr 03 14:27	0° Υ	
	8573 Apr 30 09:09	0°8		morning set	8574 Apr 17 23:57	21° Y 43'26	
morning set	8573 May 08 15:52	13° 8 00'21			8574 Apr 23 06:03	0°8	
max. Earth dist.	8573 May 14 03:27	22° 8 01'04	1.41204 AU	max. Earth dist.	8574 Apr 26 09:07	5° 8 01'31	1.43167 AU
	8573 May 18 19:52	$\Pi^{\circ}0$			0.554.3.5		200=:2:
	0.550.35		10.40:20	superior conj	8574 May 03 03:20	16° 8 10'25	
superior conj	8573 May 21 21:41	5° Ⅲ 23′28		minimum elong	8574 May 03 07:14	16° 8 26'51	2°07'30
minimum elong	8573 May 22 03:35	5° Ⅱ 49'39	1°48'15		8574 May 11 04:28	0°П	
evening rise	8573 Jun 01 09:40	24° Ⅲ 34'50		evening rise	8574 May 15 04:19	7° Ⅱ 02'38	
_	8573 Jun 04 07:54	0.20		asc. node	8574 May 22 13:35	19° ∏ 57'33	
asc. node	8573 Jun 04 16:32	0° © 39'39			8574 May 29 03:08	0	
evening max el			4 0 0 4		0 4		4 0 0 0
•	8573 Jun 17 12:36	20°516'45	18°15'26	evening max el	8574 Jun 01 00:48	3°520'46	18°05'09
retrograde	8573 Jun 17 12:36 8573 Jun 24 16:09	20°©16'45 23°©52'26	18°15'26	evening max el retrograde	8574 Jun 01 00:48 8574 Jun 07 13:57	3°\$20'46 6°\$42'55	18°05'09

evening set	8574 Jun 10 05:01	6° © 10'03		evening max el	8575 May 15 14:12	16° ∏ 42'29	18°13'51
inferior conj	8574 Jun 16 17:35	1°907'50	2°28'20	retrograde	8575 May 21 23:23	20° I 105'35	10 1551
minimum elong	8574 Jun 16 20:31	1°900'33	2°27'25	evening set	8575 May 24 21:43	19° Ⅱ 19'52	
minimum ciong	8574 Jun 17 20:46	30°RⅡ	2 27 23	inferior conj	8575 May 30 21:52	13° ∏ 59'26	3°04'21
min. Earth dist.	8574 Jun 19 20:10	28° I I04'08	0.61386 AU	minimum elong	8575 May 30 23:52	13° I 53'49	3°03'51
morning rise	8574 Jun 23 09:46	25° I 107'27	0.01300710	min. Earth dist.	8575 Jun 02 11:39	11° I 107'44	0.63523 AU
desc. node	8574 Jun 26 04:36	23° II 36'41		morning rise	8575 Jun 06 00:40	7° Ⅱ 46'45	0.03323710
direct	8574 Jun 30 01:57	22° I I50'28		direct	8575 Jun 12 18:36	5° П 09'03	
direct	8574 Jul 13 10:57	0°95		desc. node	8575 Jun 13 01:38	5° Ⅱ 09'20	
morning max el	8574 Jul 14 07:42	0° © 50'34	27055111	morning max el	8575 Jun 26 16:16	13° Ⅱ 11'46	27044'04
morning max ci	8574 Aug 04 12:04	0°Ω	27 33 11	morning max ci	8575 Jul 10 03:34	0°95	27 44 04
morning set	8574 Aug 16 13:16	22° Ω 39'29			8575 Jul 28 00:52	0°Ω	
asc. node	8574 Aug 10 13:10 8574 Aug 18 13:00	26° Ω 48'03		morning set	8575 Jul 31 09:13	6° Ω 32'08	
asc. node	-			•		16° Ω 53'18	
Faul die	8574 Aug 20 01:07	0° Т р 4° Тр 56'46	1.31898 AU	asc. node max. Earth dist.	8575 Aug 05 09:59	16° Ω 56'13	1.32646 AU
max. Earth dist.	8574 Aug 22 07:58	4 11/3040	1.51698 AU	max. Earm dist.	8575 Aug 05 10:32	10 6630 13	1.32040 AU
superior conj	8574 Aug 23 22:23	8° m 27'19	0°52'26	superior conj	8575 Aug 08 05:33	22° Ω 54'23	0°28'12
minimum elong	8574 Aug 23 20:20	8° Mp 16'05	0°51'58	minimum elong	8575 Aug 08 04:15	22° Ω 47'20	0°27'48
evening rise	8574 Aug 30 17:01	23° Mp 17'54	0 51 50	minimum ciong	8575 Aug 11 12:00	0° m)	0 27 40
evening rise	8574 Sep 02 21:36	0° ي 0° ي		evening rise	8575 Aug 11 12:00 8575 Aug 15 04:41	7° Mp 58'46	
	8574 Sep 21 02:14	0° M		evening rise	8575 Aug 15 04:41 8575 Aug 26 15:00	0∘ ʊ	
desc. node	8574 Sep 21 02:14 8574 Sep 22 03:25	1°ML14'19		avanina may al	8575 Sep 07 03:27	0 = 15° £ 13'54	22012124
	8574 Sep 25 16:16	4°M58'18	24951121	evening max el desc. node	•	15 ≗ 15 54 16° £ 56'24	23 13 24
evening max el			24°31'31		8575 Sep 09 00:32		
retrograde	8574 Oct 09 12:21	11°M.56'25		retrograde	8575 Sep 20 13:34	21° £ 56'25	
evening set	8574 Oct 15 00:26	10°M48'18	0.56017.411	evening set	8575 Sep 24 14:15	21° £ 20'57	0.55422.411
min. Earth dist.	8574 Oct 20 03:31	8°M04'07	0.56917 AU	min. Earth dist.	8575 Oct 01 12:46	18° Ω 08'39	0.55432 AU
inferior conj	8574 Oct 22 21:39	6°M16'41		inferior conj	8575 Oct 03 05:24	17° Ω 09'22	
minimum elong	8574 Oct 23 01:25	6°M10'32	5°28'31	minimum elong	8575 Oct 03 01:55	17° £ 14'28	5°31'04
morning rise	8574 Oct 31 04:39	2°M09'35		morning rise	8575 Oct 11 15:39	13° Ω 18'27	
direct	8574 Nov 02 16:51	1°M51'53		direct	8575 Oct 14 14:53	12° £ 57'23	
morning max el	8574 Nov 12 00:47	6°M17'47	19°19'06	morning max el	8575 Oct 25 11:41	18° Ω 03'04	20°33'03
asc. node	8574 Nov 14 12:41	8°M58'37		asc. node	8575 Nov 01 09:41	26° £ 28'51	
	8574 Nov 27 04:53	0° ∡ ¹			8575 Nov 03 15:36	0°M	
morning set	8574 Nov 29 01:53	3° х 43′02		morning set	8575 Nov 13 08:45	18°M23'05	
	055475 05 04 00	100 75005	1000150		8575 Nov 18 23:25	0°⊀	
superior conj	8574 Dec 07 04:32	19° ₹ 50′25	1°20'58		055531 00 00 10	20 75001	100.410.6
minimum elong	8574 Dec 07 07:29	20° ∡ *04'45	1°20'51	superior conj	8575 Nov 20 20:48	3° ₹ 52'21	1°34'36
	8574 Dec 12 13:05	0°₹		minimum elong	8575 Nov 20 22:37	4° ₹ 01'35	1°34'40
max. Earth dist.	8574 Dec 13 18:01		1.38250 AU	max. Earth dist.	8575 Nov 26 01:18		1.36180 AU
evening rise	8574 Dec 17 11:44	8° る 52'39		evening rise	8575 Nov 29 22:54	21° ₹ 31'52	
desc. node	8574 Dec 19 02:16	11° ට 39'27			8575 Dec 04 16:39	0° ろ	
	8574 Dec 30 10:57	0° ≈		desc. node	8575 Dec 05 23:20	2° る 11'53	
evening max el	8575 Jan 21 23:18	29°≈14'27	24°56'40		8575 Dec 24 07:59	0° ≈	
	8575 Jan 22 18:08	0°) (evening max el	8576 Jan 04 12:23	13°≈01'17	26°05'27
retrograde	8575 Feb 02 18:49	6°) €06'40		retrograde	8576 Jan 17 04:12	20°≈13′06	
evening set	8575 Feb 08 10:32	3°) 45′29		evening set	8576 Jan 23 08:16	17° ≈ 42'18	
asc. node	8575 Feb 10 11:50	1°) 43′20		min. Earth dist.	8576 Jan 27 13:45	13° ≈ 13'47	0.66894 AU
	8575 Feb 11 22:28	30°R≈	0.68000 :==	asc. node	8576 Jan 28 08:55	12°≈14'30	0015:15
min. Earth dist.	8575 Feb 12 22:38	28° ≈ 42′28	0.67803 AU	inferior conj	8576 Jan 29 03:16	11° ≈ 17′23	0°15'13
inferior conj	8575 Feb 14 00:40	27° ≈ 16'47	1°08'23	minimum elong	8576 Jan 29 02:52	11° ≈ 18'38	0°15'12
minimum elong	8575 Feb 13 23:08	27° ≈ 21'52	1°07'55	transit middle	8576 Jan 29 02:52		0°15'12
morning rise	8575 Feb 19 12:00	21° ≈ 19'41		transit begin	8576 Jan 29 01:56	11° ≈ 21'32	
direct	8575 Feb 23 03:05	20° ≈ 04'03		transit end	8576 Jan 29 03:48	11° ≈ 15'43	
morning max el	8575 Mar 02 09:48	24° ≈ 07'13	19°37'08	morning rise	8576 Feb 03 22:08	5° ≈ 29'24	
	8575 Mar 07 11:20	0° ∀		direct	8576 Feb 07 01:58	4° ≈ 32'33	
greatest brilliancy	8575 Mar 15 03:15	10°) (44′24	-0.7m	morning max el	8576 Feb 13 18:54	8° ≈ 11'16	18°44'49
desc. node	8575 Mar 17 01:56	13°) 37′24			8576 Feb 29 11:35	0° ∀	
morning set	8575 Mar 27 21:36	0° Υ 04'31		desc. node	8576 Mar 02 22:52	3° ¥ 51′09	
	8575 Mar 27 20:26	0 ° $\mathbf{\Upsilon}$		morning set	8576 Mar 06 09:07	9°) 13′06	
max. Earth dist.	8575 Apr 08 21:21	18° Ƴ 46'46	1.44621 AU		8576 Mar 19 15:50	$0^{\circ}\Upsilon$	
				max. Earth dist.	8576 Mar 21 14:23	3° Y 02'15	1.45416 AU
superior conj	8575 Apr 13 08:15	25° Y 53′09					
minimum elong	8575 Apr 13 06:11	25° Y 44'48	2°11'18	superior conj	8576 Mar 22 17:52	4° Y 49'54	
	8575 Apr 15 21:23	0°8		minimum elong	8576 Mar 22 09:23	4° Υ 16'39	1°54'31
evening rise	8575 Apr 27 02:58	18° 8 36'26		evening rise	8576 Apr 07 02:14	29° Y 11′08	
	8575 May 03 21:46	$\Pi^{\circ}0$			8576 Apr 07 14:24	0° 8	
asc. node	8575 May 09 10:40	8° ∏ 49'24		greatest brilliancy	8576 Apr 14 02:04	10° 8 25'29	-0.9m

asc. node	8576 Apr 25 07:45 8576 Apr 27 20:14 8576 Apr 28 02:00	27° ႘ 06′29 0°Ⅲ 0°Ⅲ14′39	18°40'38	superior conj minimum elong max. Earth dist.	8577 Mar 01 23:54 8577 Mar 01 15:00 8577 Mar 04 10:06	13°) 44′26 13°) 09′24 17°) 32′58	-1°20'44 1°19'39 1.45474 AU
retrograde	8576 May 04 16:09	3° ∏ 51'40	10 40 30	max. Lattii dist.	8577 Mar 12 09:36	0° Υ	1.43474 AO
evening set	8576 May 07 21:57	2° I 51'50		evening rise	8577 Mar 18 03:29	8° Υ 55'42	
e venning see	8576 May 11 05:05	30°R X		greatest brilliancy	8577 Mar 30 11:54	27° Υ 56'46	-0.7m
inferior conj	8576 May 13 13:31	27° 8 14'44	3°20'38	greatest orimaney	8577 Mar 31 20:51	0°8	0.7111
minimum elong	8576 May 13 14:13	27° 8 12'37	3°20'25	evening max el	8577 Apr 11 10:00	13° 8 52'27	19°24'24
min. Earth dist.	8576 May 15 12:12	24° 8 52'11	0.65366 AU	asc. node	8577 Apr 12 04:50	14° 8 38'23	1, 2,2,
morning rise	8576 May 19 05:45	20° 8 57'03	0.00000110	retrograde	8577 Apr 18 13:05	17° 8 55'04	
direct	8576 May 25 18:58	18° 8 10'36		evening set	8577 Apr 22 02:56	16° 8 40'21	
desc. node	8576 May 29 22:39	19° 8 07'00		inferior conj	8577 Apr 27 13:12	10° 8 47'58	3°21'23
morning max el	8576 Jun 08 02:35	26° 8 02'59	26°59'42	minimum elong	8577 Apr 27 12:39	10° 8 49'45	3°21'14
5 5	8576 Jun 11 17:54	0°II		min. Earth dist.	8577 Apr 28 20:40	9° 8 05'03	0.66803 AU
	8576 Jul 02 17:02	0°ಅ		morning rise	8577 May 02 22:00	4° 8 29'44	
morning set	8576 Jul 13 19:09	19° © 52'52		direct	8577 May 09 01:43	1° 8 46'29	
max. Earth dist.	8576 Jul 18 03:38	28° © 27'51	1.33885 AU	desc. node	8577 May 16 19:37	5° 8 00'59	
	8576 Jul 18 21:48	$0^{\circ}\Omega$		morning max el	8577 May 21 12:37	9° 8 13'21	25°50'19
				Č	8577 Jun 06 20:49	$\Pi^{\circ}0$	
superior conj	8576 Jul 22 07:15	7° Ω 01'07	0°00'08		8577 Jun 25 05:59	0°9	
minimum elong	8576 Jul 22 07:15	7° Ω 01'08	0°00'02	morning set	8577 Jun 26 15:18	2° 9 31'46	
behind sun begin	8576 Jul 22 01:50	6° Ω 32'46		max. Earth dist.	8577 Jun 30 09:56	9° © 36'35	1.35601 AU
behind sun end	8576 Jul 22 12:40	7° Ω 29'33					
asc. node	8576 Jul 22 06:57	6° Ω 59'32		superior conj	8577 Jul 06 00:58	20°9540'57	-0°30'47
evening rise	8576 Jul 29 15:09	22° Ω 32'15		minimum elong	8577 Jul 06 02:47	20°950'09	0°30'36
-	8576 Aug 02 06:09	o° mp		asc. node	8577 Jul 09 03:57	27° © 03'12	
evening max el	8576 Aug 18 19:12	25° M 32'26	21°36'47		8577 Jul 10 14:16	$0^{\circ}\Omega$	
	8576 Aug 24 16:59	0∘ ⊽		evening rise	8577 Jul 13 22:22	6° Ω 52'51	
desc. node	8576 Aug 25 21:40	0° ჲ 33'53			8577 Jul 26 16:16	0° m)	
retrograde	8576 Aug 31 03:53	1° ≙ 40′20		evening max el	8577 Jul 31 22:36	6° Mg 24′02	20°14'18
evening set	8576 Sep 02 19:29	1° ≏ 24'25		retrograde	8577 Aug 11 16:34	11° m) 42'46	
	8576 Sep 07 01:45	30°₽, Mp		desc. node	8577 Aug 12 18:44	11° m 39'41	
inferior conj	8576 Sep 11 23:49	27° Mp 26'10	-4°39'04	evening set	8577 Aug 13 15:22	11° m y 33'03	
minimum elong	8576 Sep 11 14:36	27° m 39'04	4°36'56	inferior conj	8577 Aug 22 18:00	7° m ,34'55	-2°59'20
min. Earth dist.	8576 Sep 11 21:14	27° m 29'46	0.54712 AU	minimum elong	8577 Aug 22 09:58	7° m 46'45	2°56'38
morning rise	8576 Sep 20 10:44	23° M 36'06		min. Earth dist.	8577 Aug 24 07:08	6° Mp 40′13	0.54933 AU
direct	8576 Sep 24 00:47	23° Mp 08'06		morning rise	8577 Aug 31 03:33	3° m 25'42	
morning max el	8576 Oct 06 09:49	28° m 59'34	22°06'59	direct	8577 Sep 04 11:10	2° Mp 45'28	
	8576 Oct 07 10:45	0。 ಹ		morning max el	8577 Sep 17 23:28	9° m , 20'47	23°52'29
asc. node	8576 Oct 18 06:40	14° ≏ 47'07			8577 Oct 03 02:43	0∘ ಹ	
	8576 Oct 26 06:21	0°M		asc. node	8577 Oct 05 03:37	3° ≏ 41'50	
morning set	8576 Oct 27 18:56	3°M10'32		morning set	8577 Oct 12 06:34	18° ≏ 00'15	
					8577 Oct 17 19:35	0° M	
superior conj	8576 Nov 03 21:45	18° ™ 18'00	1°40'41				
minimum elong	8576 Nov 03 22:15	18°M20'39	1°40'49	superior conj	8577 Oct 19 04:30	2°M58'55	1°40'05
max. Earth dist.	8576 Nov 07 15:18	26°M03'22	1.34411 AU	minimum elong	8577 Oct 19 03:48	2°M55'08	1°40'10
	8576 Nov 09 14:11	0° ∡ 7		max. Earth dist.	8577 Oct 21 13:50	8°M₀07'26	1.33049 AU
evening rise	8576 Nov 12 01:48	4° ₹ 52'45		evening rise	8577 Oct 26 16:42	18°M45'31	
desc. node	8576 Nov 21 20:24	22° ₹ 31'02		1 1	8577 Nov 01 12:38	0° ⊼ ¹	
	8576 Nov 26 11:05	0°る	26957142	desc. node	8577 Nov 08 17:28	12° ₹ 30'30	
evening max el	8576 Dec 17 01:46	26°₹41'14	26°57'43		8577 Nov 20 16:31	0°る	27027100
	8576 Dec 20 21:22	0°≈ 4°≈ •01103		evening max el	8577 Nov 29 14:11	10°る02'37 17°る21'57	2/°26'08
retrograde	8576 Dec 30 07:51	4°≈01'02		retrograde	8577 Dec 13 04:55	1/° る 21'3/	
evening set	8577 Jan 05 23:02	1°≈25'30		evening set	8577 Dec 20 04:22		0.64021.411
min. Earth dist.	8577 Jan 07 14:03 8577 Jan 09 22:43	30°Ŗる 27°₹31'11	0.65624 AU	min. Earth dist. inferior conj	8577 Dec 23 23:13 8577 Dec 26 11:47	11°る26'47 8°る49'26	
	8577 Jan 11 23:49	27 33111 25° 3 10'25		3	8577 Dec 26 11:47 8577 Dec 26 15:17	8° ろ 4920	
inferior conj minimum elong	8577 Jan 12 01:08	25° る 06'38		minimum elong asc. node	8578 Jan 01 03:03	8 34017 3° る 57'47	1 3043
asc. node	8577 Jan 14 06:00	23 3 00 38 22° る 40'53	U 7774	morning rise	8578 Jan 02 03:56	3° る 27'41	
morning rise	8577 Jan 18 04:24	19°る34'00		direct	8578 Jan 04 15:00	3 02/41 2° る 57'23	
direct	8577 Jan 20 22:48	19 3 3400		morning max el	8578 Jan 11 02:34	2 03723 6° る 19'49	17°50'29
morning max el	8577 Jan 27 09:24	18 3 32 18 22° る 17'57	18°09'06	morning max or	8578 Jan 26 20:10	0°≈	1, 302)
morning max ci	8577 Feb 02 12:43	0°≈	10 0700	morning set	8578 Jan 27 21:04	0 ∞ 1°≈45'58	
morning set	8577 Feb 15 01:04	0 ~ 19° ≈ 48'33		desc. node	8578 Feb 04 16:45	14°≈56'29	
desc. node	8577 Feb 17 19:49	24°≈19'10					
	8577 Feb 21 08:22	0° ∀		superior conj	8578 Feb 09 20:50	23° ≈ 25'18	-0°37'04
				minimum elong	8578 Feb 09 16:41	23°≈08'30	

	8578 Feb 13 23:05	0°) €		minimum elong	8579 Jan 21 19:11	4° ≈ 21'10	0°05'58
max. Earth dist.	8578 Feb 15 05:26	2°) €00'34	1.44796 AU	behind sun begin	8579 Jan 21 11:01	3°≈46'23	0 00 00
evening rise	8578 Feb 25 15:45	18°) 15'37	1.11770110	behind sun end	8579 Jan 22 03:22	4°≈55'51	
	8578 Mar 05 09:10	0°Υ		desc. node	8579 Jan 22 13:43	5°≈39'35	
evening max el	8578 Mar 25 12:42	27° Υ 31'34	20°23'15	max. Earth dist.	8579 Jan 28 21:28	16°≈07'25	1.43462 AU
<i>y</i>	8578 Mar 28 06:46	0°8		evening rise	8579 Feb 05 06:00	27° ≈ 48'20	
asc. node	8578 Mar 30 01:56	1° 8 11'06		Č	8579 Feb 06 15:58	0° ∀	
retrograde	8578 Apr 02 11:35	2° 8 09'34			8579 Feb 27 04:25	0° Υ	
evening set	8578 Apr 06 10:24	0° ප 39'35		evening max el	8579 Mar 08 09:50	11° Y 11'29	21°34'09
	8578 Apr 07 05:21	30° ₹ Υ		asc. node	8579 Mar 16 23:01	16° Ƴ 29'42	
inferior conj	8578 Apr 11 18:04	24° Ƴ 33'44	3°09'38	retrograde	8579 Mar 17 09:43	16° Ƴ 30'43	
minimum elong	8578 Apr 11 16:34	24° Ƴ 38'51	3°09'21	evening set	8579 Mar 21 18:34	14° Ƴ 45'32	
min. Earth dist.	8578 Apr 12 11:19	23° Y 34'50	0.67791 AU	inferior conj	8579 Mar 27 01:53	8° Ƴ 28'36	2°47'21
morning rise	8578 Apr 16 22:32	18° Ƴ 17′23		minimum elong	8579 Mar 26 23:48	8° Ƴ 35'51	2°46'53
direct	8578 Apr 22 13:44	15° Ƴ 46'49		min. Earth dist.	8579 Mar 27 06:07	8° Ƴ 13'53	0.68329 AU
desc. node	8578 May 03 16:34	22° Y 20'40		morning rise	8579 Apr 01 04:53	2° Y 15'44	
morning max el	8578 May 03 21:49	22° Ƴ 33'53	24°25'44	direct	8579 Apr 06 06:17	0° Ƴ 03'57	
	8578 May 10 10:16	9° 8		morning max el	8579 Apr 16 07:50	6° Ƴ 01'41	22°55'55
	8578 May 31 04:29	$\Pi^{\circ}0$		desc. node	8579 Apr 20 13:31	10° Ƴ 42'35	
morning set	8578 Jun 08 16:49	14° Ⅱ 15'50			8579 May 04 19:59	9° 8	
max. Earth dist.	8578 Jun 12 08:16	20° Ⅱ 44'12	1.37685 AU	morning set	8579 May 20 18:12	24° 8 51'18	
	8578 Jun 17 08:16	0			8579 May 23 19:49	$\Pi^{\circ}0$	
				max. Earth dist.	8579 May 25 04:47	2° Ⅱ 20'48	1.39933 AU
superior conj	8578 Jun 19 07:24	3° © 45'15				_	
minimum elong	8578 Jun 19 11:19	4° © 04'09	1°02'23	superior conj	8579 Jun 01 22:30	16° Ⅱ 04'15	
asc. node	8578 Jun 26 00:57	17° © 00'06		minimum elong	8579 Jun 02 04:07	16° Ⅱ 29'57	1°32'50
evening rise	8578 Jun 27 23:52	20° © 53'29			8579 Jun 09 08:51	0°©	
	8578 Jul 02 16:11	0°N		evening rise	8579 Jun 11 16:34	4°925'55	
evening max el	8578 Jul 14 15:09	18° Ω 00'17	19°11'45	asc. node	8579 Jun 12 21:58	6°545'54	
retrograde	8578 Jul 23 16:56	22° Ω 29'45			8579 Jun 27 11:06	0° U	10020100
evening set	8578 Jul 25 14:10	22° Ω 18'56		evening max el	8579 Jun 27 18:21	0° Ω 18'09	18°30'09
desc. node	8578 Jul 30 15:48	20° Ω 17'48 18° Ω 07'50	1902/50	retrograde	8579 Jul 05 11:42	4° Ω 09'14	
inferior conj	8578 Aug 03 01:52	$18^{\circ} \Omega 12'28$	1°02'58	evening set	8579 Jul 07 14:44	3° £ 52'36	
minimum elong min. Earth dist.	8578 Aug 02 23:06 8578 Aug 05 20:26	16° Ω 16'34	0.56061 AU	inferior conj	8579 Jul 14 11:30 8579 Jul 15 06:47	30° ₹© 29° © 22'24	0°40'08
morning rise	8578 Aug 03 20:20 8578 Aug 11 05:07	13° Ω 23'52	0.30001 AU	minimum elong	8579 Jul 15 08:12	29° © 19'36	0°39'26
direct	8578 Aug 16 08:22	13° Ω 23'06		desc. node	8579 Jul 17 12:52	27° 9 35'41	0 37 20
morning max el	8578 Aug 30 12:10	19° Ω 35'04	25°34'32	min. Earth dist.	8579 Jul 18 15:02	26°\$45'43	0.57887 AU
morning max er	8578 Sep 08 08:29	0°m	23 3432	morning rise	8579 Jul 22 22:09	24°901'40	0.57007710
asc. node	8578 Sep 22 00:35	23° Mp 03'46		direct	8579 Jul 28 20:21	22°931'46	
use. Itoue	8578 Sep 25 10:19	0ಂ ರ		morning max el	8579 Aug 12 05:36	0°Ω10'34	26°56'01
morning set	8578 Sep 26 18:01	2° £ 47'33			8579 Aug 12 01:14	$0^{\circ}\Omega$	
. 8	r				8579 Sep 02 07:31	0° m	
superior conj	8578 Oct 03 14:46	17° ≏ 48'11	1°33'31	asc. node	8579 Sep 08 21:32	12° m) 44'44	
minimum elong	8578 Oct 03 13:09	17° ≏ 39'19	1°33'26	morning set	8579 Sep 11 03:35	17° m/26'28	
max. Earth dist.	8578 Oct 04 19:23	20° £ 25'41	1.32130 AU	-	8579 Sep 16 21:56	0° ت	
	8578 Oct 09 05:43	0°M			-		
evening rise	8578 Oct 10 16:23	3°ML01'37		superior conj	8579 Sep 18 02:30	2° ₽ 38'29	1°21'30
	8578 Oct 25 07:38	0°⊀		minimum elong	8579 Sep 18 00:21	2° ≏ 26'36	1°21'13
desc. node	8578 Oct 26 14:31	2° ҂ 02'09		max. Earth dist.	8579 Sep 18 04:47	2° £ 51'13	1.31672 AU
evening max el	8578 Nov 11 23:29	22° 尽 52'30	27°24'37	evening rise	8579 Sep 24 22:08	17° ≏ 32'38	
	8578 Nov 24 03:23	0°ප			8579 Oct 01 01:56	0°M	
retrograde	8578 Nov 25 18:57	0°る07'20		desc. node	8579 Oct 13 11:36	20°M53'56	
	8578 Nov 27 09:53	30°₹ ৵			8579 Oct 20 10:18	0°⊀	
evening set	8578 Dec 02 21:15	27° ҂ ¹45′02		evening max el	8579 Oct 25 02:58	4° ⋌ 757'55	26°49'34
min. Earth dist.	8578 Dec 06 13:32		0.62134 AU	retrograde	8579 Nov 08 00:56	12° ₹ 07'01	
inferior conj	8578 Dec 09 12:14	22° 尽 07'24		evening set	8579 Nov 14 21:36	10° ≯ 06'47	
minimum elong	8578 Dec 09 18:03		3°00'34	min. Earth dist.	8579 Nov 18 17:12	7° ∡ 129'26	0.60063 AU
morning rise	8578 Dec 16 17:04	17° ₹ 03'43		inferior conj	8579 Nov 21 21:41	4° ≯ 54'28	
direct	8578 Dec 18 23:18	16° ₹ 41'09		minimum elong	8579 Nov 22 05:01	4° × ⁷ 39'34	4°09'18
asc. node	8578 Dec 19 00:05	16° 🗷 41'10	1 = 0 1 0 1 0 0	morning rise	8579 Nov 29 14:54	0° ≯ 11'48	
morning max el	8578 Dec 25 19:21	20° ₹ 09'38	17°49'38	T	8579 Nov 30 12:40	30°RM₁	
	8579 Jan 02 02:55	0°る		direct	8579 Dec 01 19:35	29°M53'40	
morning set	8579 Jan 10 15:04	14° る 46'15			8579 Dec 03 02:07	0° ∡ ¹	
	0570 I 10 07 10	00		1	9570 D 95 31 95	00 7 5010 4	
	8579 Jan 19 06:10	0° ≈		asc. node	8579 Dec 05 21:07	0° х 59'04	10007147
superior conj	8579 Jan 19 06:10 8579 Jan 21 18:37	0°≈ 4°≈18'45	0°05!54	asc. node morning max el morning set	8579 Dec 05 21:07 8579 Dec 09 08:16 8579 Dec 25 00:49	0° ₹ 59'04 3° ₹ 37'15 28° ₹ 30'06	18°07'46

	8579 Dec 25 20:00	5°0		superior conj	8580 Dec 16 11:31	29° × 22'18	1°09'19
	0500 x 02 15 01	16070004	00.40402	minimum elong	8580 Dec 16 14:51	29° ₹ 38'00	1°09'06
superior conj	8580 Jan 03 17:01	16° る 22'04	0°42'03	D d F c	8580 Dec 16 19:31	0°る	1 20507 111
minimum elong	8580 Jan 03 19:59	16°₹35'21	0°41'48	max. Earth dist.	8580 Dec 23 15:07	12°る26'40	1.39507 AU
desc. node	8580 Jan 09 10:41	26°る24'24	1 41/0/ 411	desc. node	8580 Dec 26 07:41	17°る07'34	
max. Earth dist.	8580 Jan 11 08:21	29° る 37'52	1.41626 AU	evening rise	8580 Dec 27 14:43	19° る 19'52	
	8580 Jan 11 13:37	0° ≈			8581 Jan 03 02:46	0° ≈	
evening rise	8580 Jan 16 11:35	8°≈05'05		. 1	8581 Jan 24 01:27	0°) {	24012142
	8580 Jan 30 19:03	0° ∺ 24° ∺ 53'33	22052127	evening max el	8581 Jan 31 16:30	8° ¥ 39'22 15° ¥ 15'04	24°12'42
evening max el	8580 Feb 19 02:27 8580 Feb 25 16:26	24°π33'33 0°Υ	22°52'37	retrograde	8581 Feb 11 22:19 8581 Feb 17 06:40	13° X 13'04 13° X 01'19	
rotro aro do	8580 Feb 29 05:45	0° Υ 54'06		evening set asc. node	8581 Feb 17 00.40 8581 Feb 17 17:14	13 X 01 19 12° X 37'55	
retrograde asc. node	8580 Mar 02 20:07	0° Υ 20'26		min. Earth dist.	8581 Feb 17 17:14 8581 Feb 21 23:09	7° H 38'13	0.68146 AU
asc. node	8580 Mar 03 12:23	0 1 20 20 30°R) €		inferior conj	8581 Feb 21 23:09 8581 Feb 22 18:31	6°\(\frac{13}{32'52}\)	1°35'24
evening set	8580 Mar 05 01:50	28° ¥ 54'08		minimum elong	8581 Feb 22 16:34	6°) (32 32 6°) (39 27	1°34'48
inferior conj	8580 Mar 10 10:40	28 X 34 08 22° X 29'27	2°15'44	morning rise	8581 Feb 28 02:31	0° X 3927 0° X 31'09	1 3446
minimum elong	8580 Mar 10 10:40	22° H 37'14	2°15'06	morning risc	8581 Feb 28 20:54	30°R≈	
min. Earth dist.	8580 Mar 10 08:23	22°\(\frac{7}{56}\)'33	0.68438 AU	direct	8581 Mar 04 00:48	29°≈03'14	
morning rise	8580 Mar 15 14:53	16° \ 21'22	0.06436 AU	direct	8581 Mar 07 09:40	0°) €	
direct	8580 Mar 20 02:22	14° X 31'21		morning max el	8581 Mar 11 18:46	3° ¥ 26′07	20°14'13
morning max el	8580 Mar 28 21:49	19°) (31'21'	21°29'53	desc. node	8581 Mar 24 07:24	19° ¥ 28'48	20 14 15
desc. node	8580 Apr 06 10:28	29°) (49'29	21 27 33	dese. Hode	8581 Mar 31 10:34	0°Υ	
dese. Hode	8580 Apr 06 13:37	20 γ (4)2)		morning set	8581 Apr 08 16:54	12°Υ35'36	
	8580 Apr 27 00:21	0°8		max. Earth dist.	8581 Apr 18 13:53	28°Υ06'53	1.43854 AU
morning set	8580 Apr 29 16:09	4° 8 11'04		max. Earth dist.	8581 Apr 19 18:03	0° 8	1.43034710
max. Earth dist.	8580 May 06 05:35	14° 8 47'07	1.42077 AU		030171p1 17 10.03	٥ ٠	
max. Earth dist.	0300 May 00 03.33	11 017 07	1.12077110	superior conj	8581 Apr 24 12:45	7° 8 46'43	-2°11'20
superior conj	8580 May 13 17:39	27° 8 27'41	-1°58'06	minimum elong	8581 Apr 24 14:33	7° 8 54'08	
minimum elong	8580 May 13 23:10	27° 8 51'37		evening rise	8581 May 07 07:13	29° 8 25'36	2 11 20
	8580 May 15 04:39	0°II			8581 May 07 15:09	0°II	
evening rise	8580 May 24 20:35	17° II 20'25		asc. node	8581 May 16 16:04	15° ∏ 23'23	
asc. node	8580 May 29 19:00	26° I 15'52		evening max el	8581 May 24 17:36	26° ∏ 21'33	18°06'41
	8580 May 31 22:16	0°9		retrograde	8581 May 31 03:43	29° ∏ 42'04	
evening max el	8580 Jun 10 04:26	13°908'53	18°08'47	evening set	8581 Jun 02 22:00	29° Ⅱ 03'49	
retrograde	8580 Jun 17 00:35	16°936'54		inferior conj	8581 Jun 09 04:47	23° I 53'48	2°46'19
evening set	8580 Jun 19 11:18	16°9510'44		minimum elong	8581 Jun 09 07:25	23° ∏ 46′54	2°45'33
inferior conj	8580 Jun 26 08:54	11° © 20'13	1°56'40	min. Earth dist.	8581 Jun 12 02:28	20° ∏ 52'47	0.62323 AU
minimum elong	8580 Jun 26 11:53	11°©13'24	1°55'35	morning rise	8581 Jun 15 15:01	17° ∏ 47'27	
min. Earth dist.	8580 Jun 29 16:34	8° © 19'15	0.60085 AU	desc. node	8581 Jun 20 06:59	15° Ⅲ 33'54	
morning rise	8580 Jul 03 09:36	5° © 31'21		direct	8581 Jun 22 09:02	15° Ⅱ 20'13	
desc. node	8580 Jul 03 09:56	5°530'50		morning max el	8581 Jul 06 11:35	23° Ⅲ 22'11	27°54'51
direct	8580 Jul 09 21:35	3° 5 29'58		-	8581 Jul 12 09:23	0° ©	
morning max el	8580 Jul 24 05:41	11° 5 25'03	27°44'26		8581 Aug 01 01:48	$0^{\circ}\Omega$	
	8580 Aug 07 18:54	$0^{\circ}\Omega$		morning set	8581 Aug 09 09:46	15° Ω 58'10	
	8580 Aug 24 11:52	O° Mp		asc. node	8581 Aug 12 15:28	22° Ω 41′08	
morning set	8580 Aug 25 09:31	1° Mp 52'06		max. Earth dist.	8581 Aug 14 20:50	27° Ω 26'14	1.32161 AU
asc. node	8580 Aug 25 18:30	2° m/39'00			8581 Aug 16 01:14	O° Mp	
max. Earth dist.	8580 Aug 31 14:31	15° Mp 15'03	1.31683 AU				
				superior conj	8581 Aug 16 23:11	1° m 59'38	0°42'41
superior conj	8580 Sep 01 13:56	17° m 24'23	1°04'26	minimum elong	8581 Aug 16 21:23	1° m 49'49	0°42'14
minimum elong	8580 Sep 01 11:42	17° m 12'05	1°04'00	evening rise	8581 Aug 23 19:13	16° m 54'16	
	8580 Sep 07 07:11	0∘ ত			8581 Aug 30 05:07	0∘ ⊽	
evening rise	8580 Sep 08 07:46	2° ≏ 12'20		desc. node	8581 Sep 16 05:49	25° £ 28'53	
	8580 Sep 23 03:55	0° M ₊		evening max el	8581 Sep 17 11:48	26° £ 43'47	24°10'40
desc. node	8580 Sep 29 08:43	8°M50'04			8581 Sep 21 09:08	0°M₊	
evening max el	8580 Oct 05 22:51	16°M12'57	25°42'01	retrograde	8581 Oct 01 04:57	3°M36'07	
retrograde	8580 Oct 19 21:03	23°M15'28		evening set	8581 Oct 06 02:47	2°M43'05	
evening set	8580 Oct 26 00:33	21°M47'16			8581 Oct 11 15:10	30° ₹ Ω	
min. Earth dist.	8580 Oct 30 11:20	19° M ₊10'40	0.58001 AU	min. Earth dist.	8581 Oct 11 22:32	29° Ω 48'56	0.56217 AU
inferior conj	8580 Nov 02 12:47	17°M01'23		inferior conj	8581 Oct 14 07:33	28° Ω 21'02	
minimum elong	8580 Nov 02 19:04	16°M50'16	5°06'56	minimum elong	8581 Oct 14 08:31	28° ≙ 19'31	5°35'55
morning rise	8580 Nov 10 15:54	12°M41'14		morning rise	8581 Oct 22 16:21	24° ≏ 21'43	
direct	8580 Nov 12 23:45	12°M24'15	400.00	direct	8581 Oct 25 08:52	24° Ω 02'48	
morning max el	8580 Nov 21 13:35	16°M32'20	18°46'36	morning max el	8581 Nov 04 07:48	28° Ω 44'41	19°47'46
asc. node	8580 Nov 21 18:09	16°M43'25		_	8581 Nov 05 13:48	0°M	
	8580 Dec 01 03:17	0° ∡ 7		asc. node	8581 Nov 08 15:09	3°M39'25	
morning set	8580 Dec 07 21:28	12° ≯ 43'43		morning set	8581 Nov 22 01:27	27°M16'51	

	8581 Nov 23 09:38	0° ₹		morning set	8582 Nov 06 10:00	12°M01'00	
superior conj	8581 Nov 29 21:08	13° ∡ *05'35	1°27'43	superior conj	8582 Nov 13 17:29	27°M18'50	1°38'02
minimum elong	8581 Nov 29 23:39	13° ∡ 18′05	1°27'41	minimum elong	8582 Nov 13 18:45	27° M 25'21	1°38'09
max. Earth dist.	8581 Dec 05 21:19	24° ∡ ¹40'39	1.37349 AU		8582 Nov 15 00:49	0° ∡ ¹	
	8581 Dec 08 18:52	0°రె		max. Earth dist.	8582 Nov 18 07:18	6° ₹ 35'14	1.35384 AU
evening rise	8581 Dec 09 15:07	1° る 30'53		evening rise	8582 Nov 22 09:25	14° ∡ °28'47	
desc. node	8581 Dec 13 04:42	7° る 45'21		desc. node	8582 Nov 30 01:43	28° ҂ 12'39	
	8581 Dec 27 06:47	0° ≈			8582 Dec 01 03:13	5°0	
evening max el	8582 Jan 14 05:47	22° ≈ 27'56	25°27'32		8582 Dec 22 00:40	0° ≈	
retrograde	8582 Jan 26 10:23	29° ≈ 29'05		evening max el	8582 Dec 27 18:57	6° ≈ 12'36	26°30'03
evening set	8582 Feb 01 07:28	27° ≈ 03'30		retrograde	8583 Jan 09 17:15	13° ≈ 28'44	
asc. node	8582 Feb 04 14:19	23° ≈ 37'30		evening set	8583 Jan 16 02:28	10° ≈ 54'59	
min. Earth dist.	8582 Feb 05 16:44	22°≈15′10	0.67465 AU	min. Earth dist.	8583 Jan 20 05:21	6° ≈ 41'24	0.66404 AU
inferior conj	8582 Feb 06 23:35	20° ≈ 36′00	0°46'49	inferior conj	8583 Jan 21 23:51	4° ≈ 33'43	
minimum elong	8582 Feb 06 22:28	20° ≈ 39'38	0°46'30	minimum elong	8583 Jan 22 00:07	4° ≈ 32'56	0°09'22
morning rise	8582 Feb 12 13:50	14° ≈ 42′29		transit middle	8583 Jan 22 00:07	4° ≈ 32'56	0°09'22
direct	8582 Feb 16 00:03	13° ≈ 35′03		transit begin	8583 Jan 21 21:45	4°≈40′02	
morning max el	8582 Feb 22 23:46	17°≈25'56	19°12'55	transit end	8583 Jan 22 02:28	4°≈25'50	
	8582 Mar 04 19:23	0°) (asc. node	8583 Jan 22 11:24	3°≈59'04	
greatest brilliancy	8582 Mar 08 04:33	5°) €00'27	-0.7m		8583 Jan 26 06:41	30°Rる	
desc. node	8582 Mar 11 04:20	9°) 32'12		morning rise	8583 Jan 27 22:37	28°る50'35	
morning set	8582 Mar 18 17:44	21° ¥ 09′27 0° Ƴ		direct	8583 Jan 30 22:16	28° る 00'37	
Dardh diad	8582 Mar 24 10:34	12° Υ 09'13	1 45051 ATT		8583 Feb 04 17:57	0°≈ 1°≈ •3310€	10027127
max. Earth dist.	8582 Apr 01 05:03	12 1 09 13	1.45051 AU	morning max el	8583 Feb 06 11:31	1°≈32'06	18°27'36
aumorior comi	9592 Ame 04 09:10	17° Y ′06'00	2006155	desc. node	8583 Feb 26 01:16 8583 Feb 26 03:10	29°≈52'26 0°) €	
superior conj minimum elong	8582 Apr 04 08:10 8582 Apr 04 02:59	16° Υ 45'27		morning set	8583 Feb 26 16:33	0°) 53′10	
minimum clong	8582 Apr 12 09:11	0° 8	2 00 40	morning set	6363 Feb 20 10.33	0 /(3310	
evening rise	8582 Apr 18 20:09	10° 8 34'12		superior conj	8583 Mar 14 13:45	25°) 54'36	-1°42'20
evening risc	8582 Apr 30 19:26	0°Ⅱ		minimum elong	8583 Mar 14 04:11	25° X 17'10	
asc. node	8582 May 03 13:08	4° Ⅱ 01'17		max. Earth dist.	8583 Mar 14 23:51	26°) 34'04	1.45535 AU
evening max el	8582 May 08 06:38	9° П 48'12	18°23'03	max. Bartii dist.	8583 Mar 17 04:29	0°Υ	1.13333710
retrograde	8582 May 14 16:43	13° Ⅱ 15'29	10 25 05	evening rise	8583 Mar 30 09:28	20° Υ 45'31	
evening set	8582 May 17 18:18	12° Ⅲ 23'41		evening rise	8583 Apr 05 05:48	0°8	
inferior conj	8582 May 23 14:19	6° ∏ 55'45	3°13'23	greatest brilliancy	8583 Apr 08 22:08	5° 8 46'17	-0.8m
minimum elong	8582 May 23 15:47	6° ∏ 51′29	3°13'02	asc. node	8583 Apr 20 10:12	22° 8 00'16	
min. Earth dist.	8582 May 25 21:40	4° Ⅱ 15'07	0.64354 AU	evening max el	8583 Apr 21 16:56	23° 8 22'28	18°57'13
morning rise	8582 May 29 12:16	0° Ⅱ 40′23		retrograde	8583 Apr 28 11:43	27° 8 09'22	
	8582 May 30 09:25	30° ₹ 8		evening set	8583 May 01 20:50	26° 8 03'13	
direct	8582 Jun 05 04:52	27° 8 57'48		inferior conj	8583 May 07 09:45	20° 8 19'08	3°22'38
desc. node	8582 Jun 07 04:02	28° 8 10'21		minimum elong	8583 May 07 09:53	20° 8 18'41	3°22'29
	8582 Jun 11 14:45	$\Pi^{\circ}0$		min. Earth dist.	8583 May 09 01:48	18° 8 12'42	0.66026 AU
morning max el	8582 Jun 18 21:11	5° Ⅱ 56'57	27°28'53	morning rise	8583 May 12 22:25	14° 8 00'38	
	8582 Jul 07 05:11	0°€		direct	8583 May 19 07:53	11° 8 14'26	
morning set	8582 Jul 24 01:50	29° 5 37'40		desc. node	8583 May 25 01:02	13° 8 00'56	
	8582 Jul 24 06:22	$0^{\circ}\Omega$		morning max el	8583 Jun 01 07:49	18° 8 58'09	26°32'48
max. Earth dist.	8582 Jul 28 19:54	9° Ω 14'40	1.33118 AU		8583 Jun 10 15:58	Π °0	
asc. node	8582 Jul 30 12:26	12° Ω 46′50			8583 Jun 30 05:54	0°©	
				morning set	8583 Jul 07 06:28	12° © 42'06	
superior conj	8582 Aug 01 04:17	16° Ω 18'19		max. Earth dist.	8583 Jul 11 08:39	20° © 36'10	1.34556 AU
minimum elong	8582 Aug 01 03:28	16° Ω 13'56	0°16'25		0502 1 1 16 02 56	00 01 411 4	0012142
	8582 Aug 07 13:13	0°M)		superior conj	8583 Jul 16 02:56	0°Ω14'14	
evening rise	8582 Aug 08 06:36	1° ™ 32'29 0° ≏		minimum elong	8583 Jul 16 03:39	0° Ω 17'57 29° © 59'25	0°12′45
ovening may al	8582 Aug 24 02:08 8582 Aug 29 23:42	0 <u>ლ</u> 6° Ω 55'31	22021100	behind sun begin behind sun end	8583 Jul 16 00:03 8583 Jul 16 07:14	0° Ω 36'30	
evening max el desc. node	8582 Sep 03 02:56	10° £ 21'53	22 31 08	bennia sun ena	8583 Jul 16 00:10	0° Ω	
retrograde	8582 Sep 12 00:37	10 = 21 33 13° £ 25'38		asc. node	8583 Jul 17 09:24	2° Ω 52'15	
evening set	8582 Sep 15 10:15	13° ⊆ 23'38		evening rise	8583 Jul 23 15:58	16° Ω 01'18	
min. Earth dist.	8582 Sep 23 06:40		0.55021 AU	3.0	8583 Jul 30 17:12	0°m)	
inferior conj	8582 Sep 24 08:20	8° £ 55'28		evening max el	8583 Aug 11 19:42	الات 17° m) 24'59	20°59'30
minimum elong	8582 Sep 24 01:45	9° ⊆ 04'47		desc. node	8583 Aug 21 00:02	22° m 57'41	, -,
morning rise	8582 Oct 02 19:07	5° ჲ 07'39		retrograde	8583 Aug 23 13:17	23° m 13'51	
direct	8582 Oct 06 00:29	4° Ω 44'04		evening set	8583 Aug 25 19:18	23° mp 01'51	
morning max el	8582 Oct 17 12:57	10° ഫ 08'09	21°10'56	inferior conj	8583 Sep 04 00:52	19° Mp 05'06	-4°01'08
asc. node	8582 Oct 26 12:09	21° ≏ 31'32		minimum elong	8583 Sep 03 15:18	19° mp 18'38	
	8582 Oct 31 09:12	0°M		min. Earth dist.	8583 Sep 04 15:33	18° m 44'16	0.54679 AU

morning rise	8583 Sep 12 11:36	15° Mp 09'25		minimum elong	8584 Aug 13 17:31	29° Ω 29'47	2°07'52
direct	8583 Sep 16 08:26	14° m 37'19		min. Earth dist.	8584 Aug 16 03:02	28° Ω 00'52	0.55303 AU
morning max el	8583 Sep 29 06:55	20° Mp 48'07	22°51'16	morning rise	8584 Aug 22 06:59	24° Ω 57'23	
	8583 Oct 07 01:47	0∘ ত		direct	8584 Aug 26 22:45	24° Ω 09'24	
asc. node	8583 Oct 13 09:07	10° ≏ 06'44			8584 Sep 08 15:56	0° m)	
morning set	8583 Oct 21 21:02	26° ♀ 50'27		morning max el	8584 Sep 09 19:18	1° Mp 02'26	24°37'19
. 8	8583 Oct 23 08:41	0°M₊		asc. node	8584 Sep 29 06:04	29° m 13'26	
					8584 Sep 29 15:45	0ಂ ರ	
superior conj	8583 Oct 28 21:16	11°M52'33	1°41'12	morning set	8584 Oct 05 08:47	11° ≏ 39'08	
minimum elong	8583 Oct 28 21:14	11°M52'23	1°41'20	morning sec	000.000.00	11 =37 00	
max. Earth dist.	8583 Nov 01 00:48	18°M31'23	1.33775 AU	superior conj	8584 Oct 12 05:47	26° £ 37'35	1°38'00
evening rise	8583 Nov 05 17:52	28°M04'34	1.55775 AO	minimum elong	8584 Oct 12 04:40	26° ⊆ 31'27	
evening rise	8583 Nov 06 17:30	0°×7		minimum clong		0°M	1 3801
				E 4 E 4	8584 Oct 13 18:57		1 22500 ATT
desc. node	8583 Nov 16 22:46	18° ₹ 24'16		max. Earth dist.	8584 Oct 14 02:21	0°M40'04	1.32599 AU
	8583 Nov 24 08:24	0°る	25012155	evening rise	8584 Oct 19 12:51	12°M07'59	
evening max el	8583 Dec 10 07:53	19°₹45'21	27°12'55		8584 Oct 28 22:34	0° ⊀ ⁷	
retrograde	8583 Dec 23 18:20	27° る 06'26		desc. node	8584 Nov 02 19:50	8° ∡ 12'45	
evening set	8583 Dec 30 13:33	24° る 30'29			8584 Nov 18 22:08	0°ප	
min. Earth dist.	8584 Jan 03 10:53		0.64986 AU	evening max el	8584 Nov 21 19:16	2° る 54'48	27°29'27
inferior conj	8584 Jan 05 17:04	18° る 21'16	-1°13'12	retrograde	8584 Dec 05 12:48	10°る13'09	
minimum elong	8584 Jan 05 19:16	18° る 15'12	1°12'05	evening set	8584 Dec 12 14:04	7° る 43'19	
asc. node	8584 Jan 09 08:29	14° る 40'35		min. Earth dist.	8584 Dec 16 07:25	4° る 33'54	0.63247 AU
morning rise	8584 Jan 12 02:25	12° る 50'59		inferior conj	8584 Dec 19 00:33	1°る52'23	-2°22'06
direct	8584 Jan 14 17:20	12° る 14'44		minimum elong	8584 Dec 19 05:03	1° る 41'10	2°20'08
morning max el	8584 Jan 21 03:34	15° る 37'54	17°59'00	Č	8584 Dec 20 23:07	30°₽ ⋌	
. 8	8584 Jan 31 12:42	0° ≈		morning rise	8584 Dec 25 22:02	26° х 37'49	
morning set	8584 Feb 07 20:54	12° ≈ 04'44		asc. node	8584 Dec 26 05:32	26° ₹ 31'20	
desc. node	8584 Feb 12 22:10	20°≈24'31		direct	8584 Dec 28 06:33	26° ⊀ 11′22	
desc. node	8584 Feb 18 20:07	0° ∀		morning max el	8585 Jan 03 20:59	20 × 11 22 29° × 35'39	17047'47
	6364 FC0 16 20.07	0 /		morning max ci		0° ろ	1/4/4/
	0504E 1 22 00 12	50 V 02140	1002142	. ,	8585 Jan 04 06:37		
superior conj	8584 Feb 22 00:12	5° ∺ 03'48		morning set	8585 Jan 20 03:08	24° る 31'27	
minimum elong	8584 Feb 21 17:01	4°) (35′15			8585 Jan 23 06:56	0° ≈	
max. Earth dist.	8584 Feb 25 19:16		1.45271 AU	desc. node	8585 Jan 29 19:07	11° ≈ 04'33	
	8584 Mar 08 23:43	0° Υ					
evening rise	8584 Mar 09 03:31	0° Υ 14'39		superior conj	8585 Feb 01 07:14	15° ≈ 14′27	
greatest brilliancy	8584 Mar 23 05:52	21° Y 39'07	-0.6m	minimum elong	8585 Feb 01 05:19	15° ≈ 06'31	0°17'51
	8584 Mar 29 03:02	0°8		max. Earth dist.	8585 Feb 07 13:03	25° ≈ 22'46	1.44303 AU
evening max el	8584 Apr 03 22:41	7° 8 00'23	19°47'46		8585 Feb 10 10:54	0° ∀	
asc. node	8584 Apr 06 07:17	9° 8 08'26		evening rise	8585 Feb 16 14:42	9° ∺ 35'22	
retrograde	8584 Apr 11 09:39	11° 8 17'31			8585 Mar 02 04:56	0° Y	
evening set	8584 Apr 15 03:05	9° 8 56'31		evening max el	8585 Mar 17 23:03	20° Ƴ 40'12	20°52'16
inferior conj	8584 Apr 20 11:56	3° 8 58'06	3°17'47	asc. node	8585 Mar 24 04:24	25° Ƴ 11'39	
minimum elong	8584 Apr 20 10:57	4° 8 01'25	3°17'36	retrograde	8585 Mar 26 08:10	25° Ƴ 35'17	
min. Earth dist.	8584 Apr 21 13:15	2° 8 33'25	0.67273 AU	evening set	8585 Mar 30 11:03	23° Y ′59'01	
	8584 Apr 23 13:32	30°RY		inferior conj	8585 Apr 04 18:21	17° Y '48'20	3°01'23
morning rise	8584 Apr 25 18:30	27° Y '40'09		minimum elong	8585 Apr 04 16:33	17° Υ 54'32	3°01'01
direct	-	25° Υ 01'11		minimum ciong			
desc. node				min Farth dist	-		
	8584 May 10 22:00			min. Earth dist.	8585 Apr 05 06:00	17° Ƴ 08'04	0.68075 AU
	8584 May 10 22:00	29° Y '34'17		morning rise	8585 Apr 05 06:00 8585 Apr 09 21:50	17° Υ 08'04 11° Υ 33'14	
	8584 May 10 22:00 8584 May 11 09:40	29° Ƴ 34'17 0° ႘	25015124	morning rise direct	8585 Apr 05 06:00 8585 Apr 09 21:50 8585 Apr 15 07:21	17° Υ 08'04 11° Υ 33'14 9° Υ 09'46	0.68075 AU
morning max el	8584 May 10 22:00 8584 May 11 09:40 8584 May 13 17:30	29° Y 34'17 0° 8 2° 8 13'39	25°15'34	morning rise direct morning max el	8585 Apr 05 06:00 8585 Apr 09 21:50 8585 Apr 15 07:21 8585 Apr 26 02:32	17° Y 08'04 11° Y 33'14 9° Y 09'46 15° Y 36'41	
morning max el	8584 May 10 22:00 8584 May 11 09:40 8584 May 13 17:30 8584 Jun 03 18:35	29° Y 34'17 0° ႘ 2° ႘ 13'39 0° Ⅱ	25°15'34	morning rise direct	8585 Apr 05 06:00 8585 Apr 09 21:50 8585 Apr 15 07:21 8585 Apr 26 02:32 8585 Apr 27 18:57	17° Y 08'04 11° Y 33'14 9° Y 09'46 15° Y 36'41 17° Y 22'51	0.68075 AU
	8584 May 10 22:00 8584 May 11 09:40 8584 May 13 17:30 8584 Jun 03 18:35 8584 Jun 18 19:19	29° Y 34'17 0° ႘ 2° ႘ 13'39 0° 川 24° 川 59'13	25°15'34	morning rise direct morning max el	8585 Apr 05 06:00 8585 Apr 09 21:50 8585 Apr 15 07:21 8585 Apr 26 02:32 8585 Apr 27 18:57 8585 May 07 21:56	17° Υ 08'04 11° Υ 33'14 9° Υ 09'46 15° Υ 36'41 17° Υ 22'51 0° ႘	0.68075 AU
morning max el morning set	8584 May 10 22:00 8584 May 11 09:40 8584 May 13 17:30 8584 Jun 03 18:35 8584 Jun 18 19:19 8584 Jun 21 13:18	29° Y 34'17 0° 8 2° 8 13'39 0° I 24° I 59'13 0° 9		morning rise direct morning max el desc. node	8585 Apr 05 06:00 8585 Apr 09 21:50 8585 Apr 15 07:21 8585 Apr 26 02:32 8585 Apr 27 18:57 8585 May 07 21:56 8585 May 27 17:43	17° Υ 08'04 11° Υ 33'14 9° Υ 09'46 15° Υ 36'41 17° Υ 22'51 0° ႘ 0° Ц	0.68075 AU
morning max el	8584 May 10 22:00 8584 May 11 09:40 8584 May 13 17:30 8584 Jun 03 18:35 8584 Jun 18 19:19	29° Y 34'17 0° 8 2° 8 13'39 0° I 24° I 59'13 0° 9	25°15'34 1.36443 AU	morning rise direct morning max el	8585 Apr 05 06:00 8585 Apr 09 21:50 8585 Apr 15 07:21 8585 Apr 26 02:32 8585 Apr 27 18:57 8585 May 07 21:56 8585 May 27 17:43 8585 May 31 11:11	17°Υ08'04 11°Υ33'14 9°Υ09'46 15°Υ36'41 17°Υ22'51 0°႘ 0°Ⅱ 6°Ⅱ15'32	0.68075 AU 23°47'30
morning max el morning set max. Earth dist.	8584 May 10 22:00 8584 May 11 09:40 8584 May 13 17:30 8584 Jun 03 18:35 8584 Jun 18 19:19 8584 Jun 21 13:18 8584 Jun 22 10:39	29° Y 34'17 0° ႘ 2° ႘ 13'39 0° Ⅱ 24° Ⅱ 59'13 0°�� 1°�\$39'16	1.36443 AU	morning rise direct morning max el desc. node	8585 Apr 05 06:00 8585 Apr 09 21:50 8585 Apr 15 07:21 8585 Apr 26 02:32 8585 Apr 27 18:57 8585 May 07 21:56 8585 May 27 17:43	17° Υ 08'04 11° Υ 33'14 9° Υ 09'46 15° Υ 36'41 17° Υ 22'51 0° ႘ 0° Ц	0.68075 AU
morning max el morning set	8584 May 10 22:00 8584 May 11 09:40 8584 May 13 17:30 8584 Jun 03 18:35 8584 Jun 18 19:19 8584 Jun 21 13:18	29° Y 34'17 0° 8 2° 8 13'39 0° I 24° I 59'13 0° 9	1.36443 AU	morning rise direct morning max el desc. node	8585 Apr 05 06:00 8585 Apr 09 21:50 8585 Apr 15 07:21 8585 Apr 26 02:32 8585 Apr 27 18:57 8585 May 07 21:56 8585 May 27 17:43 8585 May 31 11:11	17°Υ08'04 11°Υ33'14 9°Υ09'46 15°Υ36'41 17°Υ22'51 0°႘ 0°Ⅱ 6°Ⅱ15'32	0.68075 AU 23°47'30
morning max el morning set max. Earth dist.	8584 May 10 22:00 8584 May 11 09:40 8584 May 13 17:30 8584 Jun 03 18:35 8584 Jun 18 19:19 8584 Jun 21 13:18 8584 Jun 22 10:39	29° Y 34'17 0° ႘ 2° ႘ 13'39 0° Ⅱ 24° Ⅱ 59'13 0°�� 1°�\$39'16	1.36443 AU -0°44'22	morning rise direct morning max el desc. node	8585 Apr 05 06:00 8585 Apr 09 21:50 8585 Apr 15 07:21 8585 Apr 26 02:32 8585 Apr 27 18:57 8585 May 07 21:56 8585 May 27 17:43 8585 May 31 11:11	17°Υ08'04 11°Υ33'14 9°Υ09'46 15°Υ36'41 17°Υ22'51 0°႘ 0°Ⅱ 6°Ⅱ15'32	0.68075 AU 23°47'30 1.38637 AU
morning max el morning set max. Earth dist. superior conj	8584 May 10 22:00 8584 May 11 09:40 8584 May 13 17:30 8584 Jun 03 18:35 8584 Jun 18 19:19 8584 Jun 21 13:18 8584 Jun 22 10:39 8584 Jun 28 16:14	29° Y 34'17 0° B 2° B 13'39 0° I 24° I 59'13 0° S 1° S 39'16	1.36443 AU -0°44'22	morning rise direct morning max el desc. node morning set max. Earth dist.	8585 Apr 05 06:00 8585 Apr 09 21:50 8585 Apr 15 07:21 8585 Apr 26 02:32 8585 Apr 27 18:57 8585 May 07 21:56 8585 May 27 17:43 8585 May 31 11:11 8585 Jun 04 06:54	17°Υ08'04 11°Υ33'14 9°Υ09'46 15°Υ36'41 17°Υ22'51 0°Β 0°Π 6°Π15'32 12°Π53'45	0.68075 AU 23°47'30 1.38637 AU -1°16'11
morning max el morning set max. Earth dist. superior conj minimum elong	8584 May 10 22:00 8584 May 11 09:40 8584 May 13 17:30 8584 Jun 03 18:35 8584 Jun 18 19:19 8584 Jun 21 13:18 8584 Jun 22 10:39 8584 Jun 28 16:14 8584 Jun 28 18:57	29°Y34'17 0°B 2°B13'39 0°II 24°II59'13 0°© 1°©39'16 13°©39'30 13°©52'54	1.36443 AU -0°44'22	morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	8585 Apr 05 06:00 8585 Apr 09 21:50 8585 Apr 15 07:21 8585 Apr 26 02:32 8585 Apr 27 18:57 8585 May 07 21:56 8585 May 27 17:43 8585 May 31 11:11 8585 Jun 04 06:54	17°Υ08'04 11°Υ33'14 9°Υ09'46 15°Υ36'41 17°Υ22'51 0°Β 0°Π 6°Π15'32 12°Π53'45	0.68075 AU 23°47'30 1.38637 AU -1°16'11
morning max el morning set max. Earth dist. superior conj minimum elong asc. node	8584 May 10 22:00 8584 May 11 09:40 8584 May 13 17:30 8584 Jun 03 18:35 8584 Jun 18 19:19 8584 Jun 21 13:18 8584 Jun 22 10:39 8584 Jun 28 16:14 8584 Jun 28 18:57 8584 Jul 03 06:22	29°Y34'17 0°B 2°B13'39 0°II 24°II59'13 0°S 1°S39'16 13°S39'30 13°S52'54 22°S53'01	1.36443 AU -0°44'22	morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	8585 Apr 05 06:00 8585 Apr 09 21:50 8585 Apr 15 07:21 8585 Apr 26 02:32 8585 Apr 27 18:57 8585 May 07 21:56 8585 May 27 17:43 8585 May 31 11:11 8585 Jun 04 06:54 8585 Jun 11 16:43 8585 Jun 11 21:28	17°Υ08'04 11°Υ33'14 9°Υ09'46 15°Υ36'41 17°Υ22'51 0°Β 0°Π 6°П15'32 12°П53'45 26°П25'55 26°П48'19	0.68075 AU 23°47'30 1.38637 AU -1°16'11
morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise	8584 May 10 22:00 8584 May 11 09:40 8584 May 13 17:30 8584 Jun 03 18:35 8584 Jun 18 19:19 8584 Jun 21 13:18 8584 Jun 22 10:39 8584 Jun 28 16:14 8584 Jun 28 18:57 8584 Jul 03 06:22 8584 Jul 06 21:03 8584 Jul 06 18:21	29°Y34'17 0°8 2°813'39 0°II 24°II59'13 0°\$ 1°\$39'16 13°\$39'30 13°\$52'54 22°\$53'01 0°\$13'40	1.36443 AU -0°44'22	morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong asc. node	8585 Apr 05 06:00 8585 Apr 09 21:50 8585 Apr 15 07:21 8585 Apr 26 02:32 8585 Apr 27 18:57 8585 May 07 21:56 8585 May 27 17:43 8585 May 31 11:11 8585 Jun 04 06:54 8585 Jun 11 16:43 8585 Jun 11 21:28 8585 Jun 13 13:48 8585 Jun 20 03:23	17°Υ08'04 11°Υ33'14 9°Υ09'46 15°Υ36'41 17°Υ22'51 0°႘ 0°Д 6°Д15'32 12°Д53'45 26°Д25'55 26°Д48'19 0°©	0.68075 AU 23°47'30 1.38637 AU -1°16'11
morning max el morning set max. Earth dist. superior conj minimum elong asc. node	8584 May 10 22:00 8584 May 11 09:40 8584 May 13 17:30 8584 Jun 03 18:35 8584 Jun 18 19:19 8584 Jun 21 13:18 8584 Jun 22 10:39 8584 Jun 28 16:14 8584 Jun 28 18:57 8584 Jul 03 06:22 8584 Jul 06 21:03 8584 Jul 06 18:21 8584 Jul 24 04:51	29°Y34'17 0°B 2°B13'39 0°II 24°II59'13 0°© 1°©39'16 13°©39'30 13°©52'54 22°©53'01 0°\Omega13'40 0°\Omega 28°\Omega35'03	1.36443 AU -0°44'22 0°44'05	morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	8585 Apr 05 06:00 8585 Apr 09 21:50 8585 Apr 15 07:21 8585 Apr 26 02:32 8585 Apr 27 18:57 8585 May 07 21:56 8585 May 27 17:43 8585 May 31 11:11 8585 Jun 04 06:54 8585 Jun 11 16:43 8585 Jun 11 16:43 8585 Jun 11 21:28 8585 Jun 13 13:48 8585 Jun 20 03:23 8585 Jun 20 19:13	17°Υ08'04 11°Υ33'14 9°Υ09'46 15°Υ36'41 17°Υ22'51 0°Β 0°Π 6°Π15'32 12°П53'45 26°П25'55 26°П48'19 0°© 12°©45'37 14°©03'03	0.68075 AU 23°47'30 1.38637 AU -1°16'11
morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise evening max el	8584 May 10 22:00 8584 May 11 09:40 8584 May 13 17:30 8584 Jun 03 18:35 8584 Jun 18 19:19 8584 Jun 21 13:18 8584 Jun 22 10:39 8584 Jun 28 16:14 8584 Jun 28 18:57 8584 Jul 03 06:22 8584 Jul 06 21:03 8584 Jul 06 18:21 8584 Jul 04:51 8584 Jul 25 18:00	29°Y34'17 0°8 2°813'39 0°II 24°II59'13 0°S 1°S39'16 13°S39'30 13°S52'54 22°S53'01 0°A13'40 0°A 28°A35'03 0°M	1.36443 AU -0°44'22 0°44'05	morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong asc. node evening rise	8585 Apr 05 06:00 8585 Apr 09 21:50 8585 Apr 15 07:21 8585 Apr 26 02:32 8585 Apr 27 18:57 8585 May 07 21:56 8585 May 27 17:43 8585 May 31 11:11 8585 Jun 04 06:54 8585 Jun 11 16:43 8585 Jun 11 16:43 8585 Jun 11 21:28 8585 Jun 13 13:48 8585 Jun 20 03:23 8585 Jun 20 19:13 8585 Jun 29 09:22	17°Y08'04 11°Y33'14 9°Y09'46 15°Y36'41 17°Y22'51 0°B 0°II 6°II15'32 12°II53'45 26°II25'55 26°II48'19 0°B 12°S45'37 14°S03'03 0°Ω	0.68075 AU 23°47'30 1.38637 AU -1°16'11 1°15'40
morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise evening max el retrograde	8584 May 10 22:00 8584 May 11 09:40 8584 May 13 17:30 8584 Jun 03 18:35 8584 Jun 18 19:19 8584 Jun 21 13:18 8584 Jun 22 10:39 8584 Jun 28 16:14 8584 Jun 28 18:57 8584 Jul 03 06:22 8584 Jul 06 21:03 8584 Jul 06 18:21 8584 Jul 24 04:51 8584 Jul 25 18:00 8584 Aug 03 05:29	29°Y34'17 0°B 2°B13'39 0°II 24°II59'13 0°S 1°S39'16 13°S39'30 13°S52'54 22°S53'01 0°A13'40 0°A 28°A35'03 0°ID 3°ID 32'00	1.36443 AU -0°44'22 0°44'05	morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong asc. node evening rise evening max el	8585 Apr 05 06:00 8585 Apr 09 21:50 8585 Apr 15 07:21 8585 Apr 26 02:32 8585 Apr 27 18:57 8585 May 07 21:56 8585 May 27 17:43 8585 May 31 11:11 8585 Jun 04 06:54 8585 Jun 11 16:43 8585 Jun 11 21:28 8585 Jun 13 13:48 8585 Jun 20 03:23 8585 Jun 20 19:13 8585 Jun 29 09:22 8585 Jul 07 02:27	17°Y08'04 11°Y33'14 9°Y09'46 15°Y36'41 17°Y22'51 0°8 0°II 6°II15'32 12°II53'45 26°II25'55 26°II48'19 0°S 12°S45'37 14°S03'03 0°R 10°R30'04	0.68075 AU 23°47'30 1.38637 AU -1°16'11
morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise evening max el retrograde evening set	8584 May 10 22:00 8584 May 11 09:40 8584 May 13 17:30 8584 Jun 03 18:35 8584 Jun 18 19:19 8584 Jun 21 13:18 8584 Jun 22 10:39 8584 Jun 28 16:14 8584 Jun 28 18:57 8584 Jul 03 06:22 8584 Jul 06 21:03 8584 Jul 06 18:21 8584 Jul 24 04:51 8584 Jul 25 18:00 8584 Aug 03 05:29 8584 Aug 05 01:58	29°Y34'17 0°8 2°813'39 0°11 24°1159'13 0°5 1°539'16 13°539'30 13°552'54 22°553'01 0°113'40 0°1 28°113'40 0°1 28°113'40 0°1 3°113'40 0°1 3°113'40 0°11 3°113'40	1.36443 AU -0°44'22 0°44'05	morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong asc. node evening rise evening max el retrograde	8585 Apr 05 06:00 8585 Apr 09 21:50 8585 Apr 15 07:21 8585 Apr 26 02:32 8585 Apr 27 18:57 8585 May 07 21:56 8585 May 27 17:43 8585 May 31 11:11 8585 Jun 04 06:54 8585 Jun 11 16:43 8585 Jun 11 21:28 8585 Jun 13 13:48 8585 Jun 20 03:23 8585 Jun 20 19:13 8585 Jun 29 09:22 8585 Jul 07 02:27 8585 Jul 15 12:53	17°Y08'04 11°Y33'14 9°Y09'46 15°Y36'41 17°Y22'51 0°8 0°II 6°II15'32 12°I53'45 26°I25'55 26°I48'19 0°S 12°S45'37 14°S03'03 0°Ω 10°Ω30'04 14°Ω40'54	0.68075 AU 23°47'30 1.38637 AU -1°16'11 1°15'40
morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise evening max el retrograde	8584 May 10 22:00 8584 May 11 09:40 8584 May 13 17:30 8584 Jun 03 18:35 8584 Jun 18 19:19 8584 Jun 21 13:18 8584 Jun 22 10:39 8584 Jun 28 16:14 8584 Jun 28 18:57 8584 Jul 03 06:22 8584 Jul 06 21:03 8584 Jul 06 18:21 8584 Jul 24 04:51 8584 Jul 25 18:00 8584 Aug 03 05:29 8584 Aug 05 01:58 8584 Aug 06 21:09	29°Y34'17 0°B 2°B13'39 0°II 24°II59'13 0°S 1°S39'16 13°S39'30 13°S52'54 22°S53'01 0°A13'40 0°A 28°A35'03 0°M 3°M32'00 3°M32'00 3°M32'36 2°M56'36	1.36443 AU -0°44'22 0°44'05	morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong asc. node evening rise evening max el retrograde evening set	8585 Apr 05 06:00 8585 Apr 09 21:50 8585 Apr 15 07:21 8585 Apr 26 02:32 8585 Apr 27 18:57 8585 May 07 21:56 8585 May 27 17:43 8585 May 31 11:11 8585 Jun 04 06:54 8585 Jun 11 16:43 8585 Jun 11 21:28 8585 Jun 13 13:48 8585 Jun 20 03:23 8585 Jun 20 19:13 8585 Jun 29 09:22 8585 Jul 07 02:27 8585 Jul 15 12:53 8585 Jul 17 12:18	17°Y08'04 11°Y33'14 9°Y09'46 15°Y36'41 17°Y22'51 0°8 0°II 6°II15'32 12°II53'45 26°II25'55 26°II48'19 0°© 12°©45'37 14°©03'03 0°Ω 10°Ω30'04 14°Ω40'54 14°Ω28'01	0.68075 AU 23°47'30 1.38637 AU -1°16'11 1°15'40
morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise evening max el retrograde evening set	8584 May 10 22:00 8584 May 11 09:40 8584 May 13 17:30 8584 Jun 03 18:35 8584 Jun 18 19:19 8584 Jun 21 13:18 8584 Jun 22 10:39 8584 Jun 28 16:14 8584 Jun 28 18:57 8584 Jul 03 06:22 8584 Jul 06 21:03 8584 Jul 06 18:21 8584 Jul 24 04:51 8584 Jul 25 18:00 8584 Aug 03 05:29 8584 Aug 05 01:58	29°Y34'17 0°8 2°813'39 0°11 24°1159'13 0°5 1°539'16 13°539'30 13°552'54 22°553'01 0°113'40 0°1 28°113'40 0°1 28°113'40 0°1 3°113'40 0°1 3°113'40 0°11 3°113'40	1.36443 AU -0°44'22 0°44'05 19°45'13	morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong asc. node evening rise evening max el retrograde	8585 Apr 05 06:00 8585 Apr 09 21:50 8585 Apr 15 07:21 8585 Apr 26 02:32 8585 Apr 27 18:57 8585 May 07 21:56 8585 May 27 17:43 8585 May 31 11:11 8585 Jun 04 06:54 8585 Jun 11 16:43 8585 Jun 11 21:28 8585 Jun 13 13:48 8585 Jun 20 03:23 8585 Jun 20 19:13 8585 Jun 29 09:22 8585 Jul 07 02:27 8585 Jul 15 12:53	17°Y08'04 11°Y33'14 9°Y09'46 15°Y36'41 17°Y22'51 0°8 0°II 6°II15'32 12°I53'45 26°I25'55 26°I48'19 0°S 12°S45'37 14°S03'03 0°Ω 10°Ω30'04 14°Ω40'54	0.68075 AU 23°47'30 1.38637 AU -1°16'11 1°15'40

minimum elong	8585 Jul 25 15:06	10° Ω 10'35	0°16'18	desc. node	8586 Jul 11 15:17	18° © 06'18	
min. Earth dist.	8585 Jul 28 18:18	7° Ω 56'42	0.56777 AU	morning rise	8586 Jul 14 15:16	16°908'31	
		5° Ω 09'29	0.30777 AU		8586 Jul 20 20:11	10 \$308 31 14°\$25'18	
morning rise	8585 Aug 02 14:35			direct			27921115
direct	8585 Aug 08 02:35	3° Ω 56'48	0.001.010.0	morning max el	8586 Aug 04 05:23	22°©11'16	2/*21.13
morning max el	8585 Aug 22 09:13	11° Ω 21'07	26°12'33		8586 Aug 11 02:43	$\Omega^{\circ}\Omega$	
	8585 Sep 05 18:43	0° Mp		4	8586 Aug 29 18:03	0° m/	
asc. node	8585 Sep 16 03:01	18° m 43'37		asc. node	8586 Sep 02 23:59	8°m/30'50	
morning set	8585 Sep 19 19:36	26° m/22'37		morning set	8586 Sep 04 03:53	10° Mp 56'30	
	8585 Sep 21 12:04	0∘ ⊽					
				superior conj	8586 Sep 11 04:44	26° Mp 16'16	1°14'51
superior conj	8585 Sep 26 16:54	11° ≏ 27'21	1°29'03	minimum elong	8586 Sep 11 02:30	26° Mp 03′52	1°14'30
minimum elong	8585 Sep 26 15:01	11° ≏ 16'55	1°28'53	max. Earth dist.	8586 Sep 10 20:11	25° Mp 28′48	1.31621 AU
max. Earth dist.	8585 Sep 27 09:56	13° ഫ 01'36	1.31881 AU		8586 Sep 12 21:02	0∘ ত	
evening rise	8585 Oct 03 15:26	26° ≙ 30'56		evening rise	8586 Sep 17 23:07	11° ≏ 06'31	
	8585 Oct 05 07:48	0°M			8586 Sep 27 13:02	0°M	
desc. node	8585 Oct 20 16:55	27°M28'33		desc. node	8586 Oct 07 14:01	15°M58'57	
	8585 Oct 22 09:35	0° ∡ ¹		evening max el	8586 Oct 17 03:14	27°M12'18	26°24'32
evening max el	8585 Nov 04 02:40	15° ∡ ¹27'34	27°14'01		8586 Oct 20 09:32	0° ∡ ¹	
retrograde	8585 Nov 17 23:28	22° ∡ ³39′23		retrograde	8586 Oct 31 01:11	4° ∡ 18′01	
evening set	8585 Nov 25 00:28	20° ∡ ¹25'34		evening set	8586 Nov 06 16:21	2° ∡ ³30′21	
min. Earth dist.	8585 Nov 28 17:21	17° ∡ ³39'50	0.61264 AU	min. Earth dist.	8586 Nov 10 16:33	29°M55'49	0.59171 AU
inferior conj	8585 Dec 01 19:05	14° ∡ 58′23	-3°32'44		8586 Nov 10 14:16	30°RM₁	
minimum elong	8585 Dec 02 01:43	14° ∡ ¹43'48	3°30'20	inferior conj	8586 Nov 13 21:10	27°M29'49	-4°37'51
morning rise	8585 Dec 09 05:17	10° х 02'57		minimum elong	8586 Nov 14 04:30	27° ™ 15'47	
direct	8585 Dec 11 10:25	9° х 42′37		morning rise	8586 Nov 21 19:00	22°M56'38	
asc. node	8585 Dec 13 02:36	9° х 54'40		direct	8586 Nov 24 00:35	22°M39'14	
morning max el	8585 Dec 18 12:30	13° √ 16'35	17°54'54	asc. node	8586 Nov 29 23:38	24°M51'07	
morning max cr	8585 Dec 29 20:06	0°る	17 3434	morning max el	8586 Dec 01 22:39		18°21'43
morning set	8586 Jan 03 04:37	7° る 52'38		morning max cr	8586 Dec 04 23:55	0°×7	10 21 43
morning set	0300 Jan 03 04.37	7 03236		morning set	8586 Dec 17 19:35	21° х 51'14	
superior conj	8586 Jan 13 15:54	26° る 38'32	0°22'14	morning set	8586 Dec 22 02:05	21 × 31 14	
	8586 Jan 13 17:47	26°る46'43	0°22'08		8380 Dec 22 02.03	0.0	
minimum elong		20° ⊘ 4043	0-22/08		9596 D 26 22-25	00=00120	0954142
	8586 Jan 15 14:37			superior conj	8586 Dec 26 23:35	9° そ 08'30	0°54'42
desc. node	8586 Jan 16 16:04	1°≈48'32	1 4072 (ATT	minimum elong	8586 Dec 27 02:53	9° る 23'40	0°54'27
max. Earth dist.	8586 Jan 21 03:21	9°≈16'53	1.42736 AU	max. Earth dist.	8587 Jan 03 12:54	22° る 32'32	1.40747 AU
evening rise	8586 Jan 27 10:20	19° ≈ 24'31		desc. node	8587 Jan 03 13:04	22° る 33'14	
	8586 Feb 03 06:55	0°) €			8587 Jan 07 23:28	0° ≈	
	8586 Feb 24 19:49	0° Υ		evening rise	8587 Jan 08 00:52	0°≈05'44	
evening max el	8586 Feb 28 18:14	4° Υ 21'26	22°06'57		8587 Jan 27 18:09	0° ∀	
retrograde	8586 Mar 10 05:27	9° Y 57'53		evening max el	8587 Feb 11 09:32	18° 米 05′09	23°26'43
asc. node	8586 Mar 11 01:31	9° Y 54'21		retrograde	8587 Feb 22 00:08	24° ∺ 21′20	
evening set	8586 Mar 14 19:02	8° Y 06′20		asc. node	8587 Feb 25 22:38	23° 米 05′36	
inferior conj	8586 Mar 20 02:49	1° Y 45'55	2°35'01	evening set	8587 Feb 27 01:29	22° 升 15′02	
minimum elong	8586 Mar 20 00:36	1° Y 53'36	2°34'28	inferior conj	8587 Mar 04 11:26	15° ∺ 48'14	1°59'40
min. Earth dist.	8586 Mar 20 01:50	1° Y 49'19	0.68435 AU	minimum elong	8587 Mar 04 09:15	15° ¥ 55'43	1°59'01
	8586 Mar 21 09:31	30°Ŗ ℋ		min. Earth dist.	8587 Mar 03 22:34	16°) 32′22	0.68373 AU
morning rise	8586 Mar 25 06:01	25°) 35′06		morning rise	8587 Mar 09 16:59	9°) 42′55	
direct	8586 Mar 30 01:34	23°) 32′17		direct	8587 Mar 13 22:44	8°) €02'33	
morning max el	8586 Apr 08 13:42	29°) €07'15	22°18'21	morning max el	8587 Mar 22 06:33	12°) (49′05	20°56'07
	8586 Apr 09 10:14	0° Y		desc. node	8587 Apr 01 12:51	25° ∺ 27'14	
desc. node	8586 Apr 14 15:54	6° Ƴ 05'23			8587 Apr 04 18:24	0 ° Υ	
	8586 May 01 15:26	$8^{\circ 0}$		morning set	8587 Apr 21 12:12	25° Ƴ 09'07	
morning set	8586 May 12 00:53	16° 8 17'51			8587 Apr 24 14:07	0°8	
max. Earth dist.	8586 May 17 05:01	24° 8 51'14	1.40883 AU	max. Earth dist.	8587 Apr 29 09:24	7° 8 42'44	1.42900 AU
	8586 May 20 05:28	$\Pi^{\circ}0$			•		
	,			superior conj	8587 May 06 09:08	19° 8 18'30	-2°05'30
superior conj	8586 May 24 23:54	8° Ⅲ 22'25	-1°44'52	minimum elong	8587 May 06 13:36	19° 8 37'27	2°05'25
minimum elong	8586 May 25 05:49	8° ∏ 48'50	1°44'25	Ş	8587 May 12 13:57	0°Щ	
evening rise	8586 Jun 04 07:01	27° Ⅲ 20'16	-	evening rise	8587 May 18 04:14	9° I 55'05	
	8586 Jun 05 17:12	0°95		asc. node	8587 May 24 21:28	21° I I46'12	
asc. node	8586 Jun 07 00:25	2° © 25'09			8587 May 30 00:19	0°95	
evening max el	8586 Jun 20 09:03	23°502'42	18°18'36	evening max el	8587 Jun 03 20:47	6° © 03'07	18°05'30
retrograde	8586 Jun 27 15:48	26°5941'58	10 10 50	retrograde	8587 Jun 10 11:29	9° 5 26'28	10 00 00
evening set	8586 Jun 29 22:11	26°921'32		evening set	8587 Jun 13 01:23	8° 9 55'28	
inferior conj	8586 Jul 07 05:58	20 3 21 32 21° 2 42'17	1°16'06	inferior conj	8587 Jun 19 16:10	3°956'14	2°20'50
·	8586 Jul 07 08:21	21°937'16	1°15'06	·	8587 Jun 19 10:10	3°938'57	2°19'50
minimum elong	8586 Jul 07 08:21 8586 Jul 10 15:19		0.58801 AU	minimum elong			0.61046 AU
min. Earth dist.	0500 Jul 10 15.19	18° © 52'39	0.50001 AU	min. Earth dist.	8587 Jun 22 20:16	0°\$52'26	0.010 4 0 AU

	8587 Jun 23 19:37	30°₹Ⅱ		minimum elong	8588 Jun 01 20:35	16° Ⅲ 37'30	2°59'39
morning rise	8587 Jun 26 10:29	27° ∏ 58′24		min. Earth dist.	8588 Jun 04 10:23	13° ∏ 48'40	0.63221 AU
desc. node	8587 Jun 28 12:22	26° Ⅱ 47'56		morning rise	8588 Jun 07 23:02	10° Ⅱ 32'11	
direct	8587 Jul 03 01:46	25° Ⅱ 45'12		desc. node	8588 Jun 14 09:24	7° Ⅱ 57'03	
	8587 Jul 13 03:20	0 \circ \odot		direct	8588 Jun 14 17:14	7° Ⅱ 56'43	
morning max el	8587 Jul 17 08:25	3° 5 544'38	27°53'42	morning max el	8588 Jun 28 16:21	15° ∏ 59'49	27°47'56
	8587 Aug 05 18:29	$0^{\circ}\Omega$			8588 Jul 10 04:18	0°€	
morning set	8587 Aug 19 07:39	25° Ω 14'28			8588 Jul 28 11:27	$0^{\circ}\Omega$	
asc. node	8587 Aug 20 20:56	28° Ω 28'47		morning set	8588 Aug 02 04:46	9° Ω 10′33	
	8587 Aug 21 14:11	0° т р		asc. node	8588 Aug 06 17:53	18° Ω 33'07	
max. Earth dist.	8587 Aug 25 05:01	7° m 48'51	1.31823 AU	max. Earth dist.	8588 Aug 07 08:34	19° Ω 50'56	1.32503 AU
superior conj	8587 Aug 26 15:25	10° m 57'52	0°55'45	superior conj	8588 Aug 09 23:10	25° Ω 26'59	0°32'09
minimum elong	8587 Aug 26 13:19	10°Mp46'14	0°55'18	minimum elong	8588 Aug 09 21:42	25° Ω 19'07	0°31'45
evening rise	8587 Sep 02 09:43	25° m 47'24			8588 Aug 12 01:23	0°Щ	
	8587 Sep 04 09:25	0∘ ⊽		evening rise	8588 Aug 16 21:21	10° m/28'20	
	8587 Sep 21 17:55	0° ™			8588 Aug 26 19:58	0∘ ⊽	
desc. node	8587 Sep 24 11:08	3°M25'12		evening max el	8588 Sep 09 06:51	18° £ 23'34	23°28'21
evening max el	8587 Sep 28 19:30	8°M05'25	25°05'16	desc. node	8588 Sep 10 08:14	19° £ 22'51	
retrograde	8587 Oct 12 16:25	15°M05'10		retrograde	8588 Sep 22 19:22	25° Ω 09'09	
evening set	8587 Oct 18 08:55	13°M51'43		evening set	8588 Sep 27 01:32	24° £ 29'34	
min. Earth dist.	8587 Oct 23 07:04	11°M10'06	0.57185 AU	min. Earth dist.	8588 Oct 03 16:45	21° Ω 22'22	0.55614 AU
inferior conj	8587 Oct 26 03:37	9°M16'26		inferior conj	8588 Oct 05 14:01	20° £ 15'27	
minimum elong	8587 Oct 26 08:12	9°M08'48	5°24'03	minimum elong	8588 Oct 05 11:43	20° £ 18'52	5°34'13
morning rise	8587 Nov 03 09:48	5°M06'10		morning rise	8588 Oct 13 23:59	16° £ 22'37	
direct	8587 Nov 05 20:38	4°M48'48	10000157	direct	8588 Oct 16 21:20	16° £ 02'13	20020127
morning max el	8587 Nov 14 23:41	9°M09'44	19°09'57	morning max el	8588 Oct 27 12:28	21° £ 01'42	20°20'36
asc. node	8587 Nov 16 20:38	11°M07'34		asc. node	8588 Nov 02 17:37	28° ≏ 28'54 0° ™	
	8587 Nov 28 15:27	0° ⋪ 6° ⋪13'42			8588 Nov 03 18:09	20°M51'34	
morning set	8587 Dec 01 19:42	0 X·13 42		morning set	8588 Nov 15 01:50 8588 Nov 19 12:14	20 IIL31 34 0° √ 1	
superior conj	8587 Dec 10 01:05	22° ∡ ¹28'35	1°18'09		6366 NOV 19 12.14	0 x .	
minimum elong	8587 Dec 10 01:03 8587 Dec 10 04:10	22° x 43'25	1°18'01	superior conj	8588 Nov 22 15:41	6° ₹ ¹25'26	1°33'02
minimum clong	8587 Dec 10 04:10 8587 Dec 14 00:19	0°る	1 1001	minimum elong	8588 Nov 22 17:42	6° × 35'36	1°33'04
max. Earth dist.	8587 Dec 14 00:15 8587 Dec 16 18:35	5° る 03'37	1.38574 AU	max. Earth dist.	8588 Nov 28 01:17	17°×704'06	1.36475 AU
evening rise	8587 Dec 20 13:14	11°る44'30	1.50574710	evening rise	8588 Dec 01 21:41	24°×716'16	1.50475710
desc. node	8587 Dec 21 10:04	13° る 14'19		evening rise	8588 Dec 05 02:26	0°ਰ ਹਾਰ	
dese. node	8587 Dec 31 17:26	0°≈		desc. node	8588 Dec 07 07:04	3° る 47'52	
	8588 Jan 23 03:22	0°) €		dese. node	8588 Dec 24 08:48	0°≈	
evening max el	8588 Jan 24 22:51	1°) €51'33	24°45'29	evening max el	8589 Jan 06 12:00	15° ≈ 38'53	25°56'10
retrograde	8588 Feb 05 15:04	8°) (40′08		retrograde	8589 Jan 19 01:10	22° ≈ 48′20	
evening set	8588 Feb 11 04:50	6°) €20'48		evening set	8589 Jan 25 03:24	20°≈18'50	
asc. node	8588 Feb 12 19:44	4°) 46'48		min. Earth dist.	8589 Jan 29 09:52	15° ≈ 45'05	0.67051 AU
min. Earth dist.	8588 Feb 15 18:00	1°) 12'31	0.67902 AU	asc. node	8589 Jan 29 16:50	15° ≈ 23'25	
inferior conj	8588 Feb 16 18:20	29° ≈ 51'53	1°15'49	inferior conj	8589 Jan 30 21:37	13° ≈ 53′03	0°23'48
minimum elong	8588 Feb 16 16:40	29° ≈ 57'25	1°15'17	minimum elong	8589 Jan 30 21:00	13° ≈ 54'58	0°23'42
	8588 Feb 16 15:53	30° ₹ ≈		morning rise	8589 Feb 05 15:11	8° ≈ 03'27	
morning rise	8588 Feb 22 04:43	23° ≈ 53′29		direct	8589 Feb 08 20:38	7° ≈ 03'54	
direct	8588 Feb 25 21:35	22° ≈ 34'48		morning max el	8589 Feb 15 15:05	10° ≈ 45'30	18°51'34
morning max el	8588 Mar 04 07:03	26° ≈ 42'50	19°46'15		8589 Mar 01 17:39	0° ∀	
	8588 Mar 07 06:51	0° ∀		desc. node	8589 Mar 05 06:42	5° ∺ 28'42	
greatest brilliancy	8588 Mar 17 02:32	13°) €22'41	-0.6m	morning set	8589 Mar 09 18:03	12°) €26'45	
desc. node	8588 Mar 18 09:47	15°) (17'42			8589 Mar 20 23:51	0 ° Υ	
	8588 Mar 28 03:29	$0^{\circ}\Upsilon$		max. Earth dist.	8589 Mar 24 13:07	5° Ƴ 33'49	1.45344 AU
morning set	8588 Mar 30 09:55	3° Y 29'05					
max. Earth dist.	8588 Apr 10 20:31	21° Y 21'27	1.44441 AU	superior conj	8589 Mar 26 05:27	8° Y 12′07	
				minimum elong	8589 Mar 25 21:39	7° Y 41′29	1°58'23
superior conj	8588 Apr 15 17:43	29° Y 10'44			8589 Apr 08 22:09	0°8	
minimum elong	8588 Apr 15 16:44	29° Y 06'45	2°12'00	evening rise	8589 Apr 10 08:59	2° 8 20'43	
	8588 Apr 16 05:54	0°8		asc. node	8589 Apr 27 15:36	29° 8 05'28	
evening rise	8588 Apr 29 06:11	21° 8 37'31			8589 Apr 28 08:49	0°II	
_	8588 May 04 04:41	0°II		evening max el	8589 Apr 30 22:27	2° I I53'55	18°35'30
asc. node	8588 May 10 18:32	10° Ⅱ 42'32	1001:	retrograde	8589 May 07 11:13	6° Ⅱ 27'51	
evening max el	8588 May 17 10:14	19° Ⅱ 22'54	18°11'24	evening set	8589 May 10 15:56	5° Ⅱ 30'06	2010:
retrograde	8588 May 23 19:22	22° II 44'53		inferior conj	8589 May 16 08:34	29° 8 55'24	
evening set	8588 May 26 16:38	22° Ⅱ 01'11	2000112	minimum elong	8589 May 16 09:27	29° 8 52'41	<i>3</i> ~18'5'/
inferior conj	8588 Jun 01 18:24	16° Ⅱ 43'31	3-00-13		8589 May 16 07:02	30° ₹ 8	

min Forth dist	9590 May 19 00-20	27° 8 27'48	0.65120 ATT	asa mada	9500 Apr. 14 12:42	16° 8 44'49	
min. Earth dist.	8589 May 18 09:30		0.65120 AU	asc. node	8590 Apr 14 12:42		
morning rise	8589 May 22 02:11	23° 8 38'14		retrograde	8590 Apr 21 07:44	20° 8 28'54	
direct	8589 May 28 16:31	20° 8 52'21		evening set	8590 Apr 24 20:22	19° 8 16'20	
desc. node	8589 Jun 01 06:26	21° 8 34'15		inferior conj	8590 Apr 30 07:13	13° 8 26'00	3°22'05
morning max el	8589 Jun 11 02:28	28° 8 46'45	27°08'05	minimum elong	8590 Apr 30 06:51	13° 8 27'13	3°21'57
	8589 Jun 12 06:44	Π $^{\circ}0$		min. Earth dist.	8590 May 01 16:51	11° 8 36'55	0.66620 AU
	8589 Jul 04 00:19	0 \circ \odot		morning rise	8590 May 05 16:57	7° 8 07'40	
morning set	8589 Jul 16 16:22	22°536'08		direct	8590 May 11 22:15	4° 8 23'26	
•	8589 Jul 20 10:10	$\Omega^{\circ}\Omega$		desc. node	8590 May 19 03:26	7° 8 12'30	
max. Earth dist.	8589 Jul 21 03:11	1° Ω 26′16	1.33673 AU	morning max el	8590 May 24 12:40	11° 8 54'49	26°01'53
asc. node	8589 Jul 24 14:50	8° Ω 39'04	1.55075710	morning max or	8590 Jun 08 00:00	0°II	20 01 33
asc. node	6569 Jul 24 14.50	0 063904				0°©	
	0500 1 1 25 01 40	00 00 6150	0004120		8590 Jun 26 16:05		
superior conj	8589 Jul 25 01:49	9° Ω 36'53	0°04'38	morning set	8590 Jun 29 14:51	5° © 21'44	
minimum elong	8589 Jul 25 01:35	9° Ω 35'38	0°04'25	max. Earth dist.	8590 Jul 03 11:13	12° © 38'04	1.35321 AU
behind sun begin	8589 Jul 24 20:10	9° Ω 07'09					
behind sun end	8589 Jul 25 07:00	10° Ω 04'11		superior conj	8590 Jul 08 20:54	23° © 20'55	-0°25'57
evening rise	8589 Aug 01 08:06	25° Ω 03'00		minimum elong	8590 Jul 08 22:25	23° © 28'39	0°25'51
	8589 Aug 03 17:12	0° m)		asc. node	8590 Jul 11 11:48	28°543'04	
evening max el	8589 Aug 21 21:22	28° m 39'05	21°50'28		8590 Jul 12 02:42	$0^{\circ}\Omega$	
e vennig man er	8589 Aug 23 08:14	0∘ ⊽	21 00 20	evening rise	8590 Jul 16 15:57	9° Ω 25'51	
desc. node	8589 Aug 28 05:20	ა <u>—</u> 3° Ω 21'00		evening rise	8590 Jul 27 15:54	0° Mp	
	Č					-•	20025120
retrograde	8589 Sep 03 10:39	4° £ 53'04		evening max el	8590 Aug 03 22:43	9° m 24'03	20°25'20
evening set	8589 Sep 06 06:30	4° ≏ 35'10		retrograde	8590 Aug 14 22:54	14° m 50'49	
inferior conj	8589 Sep 15 09:40	0° ≙ 35'45	-4°50'31	desc. node	8590 Aug 15 02:27	14° m 50'45	
minimum elong	8589 Sep 15 00:54	0° ≙ 48′00	4°48'41	evening set	8590 Aug 16 23:03	14° m 40'44	
min. Earth dist.	8589 Sep 15 01:00	0° £ 47'52	0.54763 AU	inferior conj	8590 Aug 26 02:54	10° Mp 43'20	-3°16'22
	8589 Sep 16 11:18	30°R.™		minimum elong	8590 Aug 25 18:17	10° m 55'51	3°13'33
morning rise	8589 Sep 23 20:35	26° m/46'58		min. Earth dist.	8590 Aug 27 10:27	9° m 57'29	0.54835 AU
direct	8589 Sep 27 08:24	26° m/20'10		morning rise	8590 Sep 03 12:55	6° mp 38'21	0.0 .000 110
direct	8589 Oct 07 01:09	20 m/2010 0°Ω		direct	8590 Sep 07 17:38	6° Mp 00'32	
			2105201		•		22027141
morning max el	8589 Oct 09 12:13	2° Ω 04'29	21°52'01	morning max el	8590 Sep 21 02:45	12°m/29'31	23°36'41
asc. node	8589 Oct 20 14:35	16° ≏ 40'38			8590 Oct 04 08:41	0ಂ ರಾ	
	8589 Oct 27 18:01	0°M₊		asc. node	8590 Oct 07 11:32	5° ≏ 30'22	
morning set	8589 Oct 30 11:39	5° ™ 38′26		morning set	8590 Oct 14 23:13	20° ≏ 28'16	
					8590 Oct 19 09:15	0° M.	
superior conj	8589 Nov 06 15:32	20°M48'08	1°40'12				
minimum elong							
	8589 Nov 06 16:14	20°11L51'49	1°40'20	superior coni	8590 Oct 21 21:36	5°M27'21	1°40'34
•	8589 Nov 06 16:14 8589 Nov 10 14:17	20°M.51'49	1°40'20 1 34651 AU	superior conj	8590 Oct 21 21:36 8590 Oct 21 21:04	5°M.27'21	
max. Earth dist.	8589 Nov 10 14:17	28°M57'32	1°40′20 1.34651 AU	minimum elong	8590 Oct 21 21:04	5°M24'30	1°40'40
max. Earth dist.	8589 Nov 10 14:17 8589 Nov 11 02:40	28°M57'32 0°⊀		minimum elong max. Earth dist.	8590 Oct 21 21:04 8590 Oct 24 11:37	5°M24'30 10°M59'37	
max. Earth dist.	8589 Nov 10 14:17 8589 Nov 11 02:40 8589 Nov 14 22:29	28°M57'32 0°⊀ 7°⊀31'40		minimum elong	8590 Oct 21 21:04 8590 Oct 24 11:37 8590 Oct 29 11:48	5°M24'30 10°M59'37 21°M20'07	1°40'40
max. Earth dist.	8589 Nov 10 14:17 8589 Nov 11 02:40 8589 Nov 14 22:29 8589 Nov 24 04:05	28°M.57'32 0°♣ 7°♣31'40 24°♣709'19		minimum elong max. Earth dist. evening rise	8590 Oct 21 21:04 8590 Oct 24 11:37 8590 Oct 29 11:48 8590 Nov 02 23:07	5°M24'30 10°M59'37 21°M20'07 0°×7	1°40'40
max. Earth dist.	8589 Nov 10 14:17 8589 Nov 11 02:40 8589 Nov 14 22:29	28°M57'32 0°⊀ 7°⊀31'40		minimum elong max. Earth dist.	8590 Oct 21 21:04 8590 Oct 24 11:37 8590 Oct 29 11:48	5°M24'30 10°M59'37 21°M20'07 0°\$\sqrt{1}\$ 14°\$\sqrt{1}\$2'09	1°40'40
max. Earth dist.	8589 Nov 10 14:17 8589 Nov 11 02:40 8589 Nov 14 22:29 8589 Nov 24 04:05	28°M.57'32 0°♣ 7°♣31'40 24°♣709'19	1.34651 AU	minimum elong max. Earth dist. evening rise	8590 Oct 21 21:04 8590 Oct 24 11:37 8590 Oct 29 11:48 8590 Nov 02 23:07	5°M24'30 10°M59'37 21°M20'07 0°×7	1°40'40
max. Earth dist. evening rise desc. node	8589 Nov 10 14:17 8589 Nov 11 02:40 8589 Nov 14 22:29 8589 Nov 24 04:05 8589 Nov 27 17:33	28°肌57'32 0°メ 7°メ31'40 24°メ709'19 0°る	1.34651 AU	minimum elong max. Earth dist. evening rise	8590 Oct 21 21:04 8590 Oct 24 11:37 8590 Oct 29 11:48 8590 Nov 02 23:07 8590 Nov 11 01:08	5°M24'30 10°M59'37 21°M20'07 0°\$\sqrt{1}\$ 14°\$\sqrt{1}\$2'09	1°40'40 1.33220 AU
max. Earth dist. evening rise desc. node	8589 Nov 10 14:17 8589 Nov 11 02:40 8589 Nov 14 22:29 8589 Nov 24 04:05 8589 Nov 27 17:33 8589 Dec 20 01:24	28°M57'32 0°⊀ 7°⊀31'40 24°⊀09'19 0°♂ 29°♂20'44	1.34651 AU	minimum elong max. Earth dist. evening rise desc. node	8590 Oct 21 21:04 8590 Oct 24 11:37 8590 Oct 29 11:48 8590 Nov 02 23:07 8590 Nov 11 01:08 8590 Nov 21 14:43	5°M24'30 10°M59'37 21°M20'07 0°ズ 14°ズ12'09 0°る	1°40'40 1.33220 AU
max. Earth dist. evening rise desc. node evening max el retrograde	8589 Nov 10 14:17 8589 Nov 11 02:40 8589 Nov 14 22:29 8589 Nov 24 04:05 8589 Nov 27 17:33 8589 Dec 20 01:24 8589 Dec 20 18:01 8590 Jan 02 05:35	28°M.57'32 0°\$\frac{1}{2} 7°\$\frac{1}{2}31'40 24°\$\frac{1}{2}09'19 0°\$\tag{2}0'44 0°\$\infty	1.34651 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	8590 Oct 21 21:04 8590 Oct 24 11:37 8590 Oct 29 11:48 8590 Nov 02 23:07 8590 Nov 11 01:08 8590 Nov 21 14:43 8590 Dec 02 14:00 8590 Dec 16 03:40	5°M24'30 10°M59'37 21°M20'07 0°ダ 14°ダ12'09 0°उ 12°उ45'19	1°40'40 1.33220 AU
max. Earth dist. evening rise desc. node evening max el	8589 Nov 10 14:17 8589 Nov 11 02:40 8589 Nov 14 22:29 8589 Nov 24 04:05 8589 Nov 27 17:33 8589 Dec 20 01:24 8589 Dec 20 18:01 8590 Jan 02 05:35 8590 Jan 08 19:18	28°M57'32 0°ダ 7°ダ31'40 24°ダ09'19 0°G 29°G20'44 0°≈ 6°≈39'35 4°≈04'24	1.34651 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	8590 Oct 21 21:04 8590 Oct 24 11:37 8590 Oct 29 11:48 8590 Nov 02 23:07 8590 Nov 11 01:08 8590 Nov 21 14:43 8590 Dec 02 14:00 8590 Dec 16 03:40 8590 Dec 23 02:13	5°M24'30 10°M59'37 21°M20'07 0°ズ 14°ズ12'09 0°उ 12°उ45'19 20°उ05'12 17°उ30'46	1°40'40 1.33220 AU 27°23'36
max. Earth dist. evening rise desc. node evening max el retrograde evening set	8589 Nov 10 14:17 8589 Nov 11 02:40 8589 Nov 14 22:29 8589 Nov 24 04:05 8589 Nov 27 17:33 8589 Dec 20 01:24 8589 Dec 20 18:01 8590 Jan 02 05:35 8590 Jan 08 19:18 8590 Jan 12 21:38	28°M57'32 0°水 7°水31'40 24°水09'19 0°♂ 29°♂20'44 0°≈ 6°≈39'35 4°≈04'24 30°₹♂	1.34651 AU 26°51'17	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	8590 Oct 21 21:04 8590 Oct 24 11:37 8590 Oct 29 11:48 8590 Nov 02 23:07 8590 Nov 11 01:08 8590 Nov 21 14:43 8590 Dec 02 14:00 8590 Dec 16 03:40 8590 Dec 23 02:13 8590 Dec 26 21:38	5°M24'30 10°M59'37 21°M20'07 0°ズ 14°ズ12'09 0°उ 12°उ45'19 20°30'46 14°30'46 14°30'433	1°40'40 1.33220 AU 27°23'36 0.64283 AU
max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	8589 Nov 10 14:17 8589 Nov 11 02:40 8589 Nov 14 22:29 8589 Nov 24 04:05 8589 Nov 27 17:33 8589 Dec 20 01:24 8589 Dec 20 18:01 8590 Jan 02 05:35 8590 Jan 08 19:18 8590 Jan 12 21:38 8590 Jan 12 19:51	28°M.57'32 0° ₹ 7° ₹31'40 24° ₹09'19 0° ₹ 29° ₹320'44 0° ≈ 6° ≈39'35 4° ≈04'24 30° ₹₹ 0° ≈05'06	1.34651 AU 26°51'17 0.65837 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	8590 Oct 21 21:04 8590 Oct 24 11:37 8590 Oct 29 11:48 8590 Nov 02 23:07 8590 Nov 11 01:08 8590 Nov 21 14:43 8590 Dec 02 14:00 8590 Dec 16 03:40 8590 Dec 23 02:13 8590 Dec 26 21:38 8590 Dec 29 08:37	5°M24'30 10°M59'37 21°M20'07 0°ズ 14°ズ12'09 0°G 12°G45'19 20°G05'12 17°G30'46 14°G04'33 11°G28'56	1°40'40 1.33220 AU 27°23'36 0.64283 AU -1°41'55
max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	8589 Nov 10 14:17 8589 Nov 11 02:40 8589 Nov 14 22:29 8589 Nov 24 04:05 8589 Nov 27 17:33 8589 Dec 20 01:24 8589 Dec 20 18:01 8590 Jan 02 05:35 8590 Jan 08 19:18 8590 Jan 12 21:38 8590 Jan 12 19:51 8590 Jan 14 19:12	28°M57'32 0°ズ 7°ズ31'40 24°ズ09'19 0°云 29°云20'44 0°≈ 6°≈39'35 4°≈04'24 30°Rる 0°≈05'06 27°云47'34	1.34651 AU 26°51'17 0.65837 AU -0°35'48	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	8590 Oct 21 21:04 8590 Oct 24 11:37 8590 Oct 29 11:48 8590 Nov 02 23:07 8590 Nov 11 01:08 8590 Nov 21 14:43 8590 Dec 02 14:00 8590 Dec 16 03:40 8590 Dec 23 02:13 8590 Dec 26 21:38 8590 Dec 29 08:37 8590 Dec 29 11:47	5°M24'30 10°M59'37 21°M20'07 0°ズ 14°ズ12'09 0°उ 12°उ45'19 20°305'12 17°330'46 14°304'33 11°328'56 11°320'36	1°40'40 1.33220 AU 27°23'36 0.64283 AU
max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	8589 Nov 10 14:17 8589 Nov 11 02:40 8589 Nov 14 22:29 8589 Nov 24 04:05 8589 Nov 27 17:33 8589 Dec 20 01:24 8589 Dec 20 18:01 8590 Jan 02 05:35 8590 Jan 08 19:18 8590 Jan 12 21:38 8590 Jan 12 19:51 8590 Jan 14 19:12 8590 Jan 14 20:13	28°M.57'32 0°ズ 7°ズ31'40 24°ズ09'19 0°云 29°云20'44 0°≈ 6°≈39'35 4°≈04'24 30°Rろ 0°≈05'06 27°云47'34 27°云44'37	1.34651 AU 26°51'17 0.65837 AU -0°35'48	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	8590 Oct 21 21:04 8590 Oct 24 11:37 8590 Oct 29 11:48 8590 Nov 02 23:07 8590 Nov 11 01:08 8590 Nov 21 14:43 8590 Dec 02 14:00 8590 Dec 16 03:40 8590 Dec 23 02:13 8590 Dec 26 21:38 8590 Dec 29 08:37 8590 Dec 29 11:47 8591 Jan 03 10:59	5°M24'30 10°M59'37 21°M20'07 0°ズ 14°ズ12'09 0°℧ 12°℧45'19 20°℧05'12 17°℧30'46 14°℧04'33 11°℧28'56 11°℧20'36 6°℧52'50	1°40'40 1.33220 AU 27°23'36 0.64283 AU -1°41'55
max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	8589 Nov 10 14:17 8589 Nov 11 02:40 8589 Nov 14 22:29 8589 Nov 24 04:05 8589 Nov 27 17:33 8589 Dec 20 01:24 8589 Dec 20 18:01 8590 Jan 02 05:35 8590 Jan 08 19:18 8590 Jan 12 21:38 8590 Jan 12 19:51 8590 Jan 14 19:12 8590 Jan 14 20:13 8590 Jan 16 13:55	28°M.57'32 0°メ 7°メ31'40 24°メ709'19 0°云 29°云20'44 0°≈ 6°≈39'35 4°≈04'24 30°Rろ 0°≈05'06 27°云47'34 27°云44'37 25°云46'40	1.34651 AU 26°51'17 0.65837 AU -0°35'48	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	8590 Oct 21 21:04 8590 Oct 24 11:37 8590 Oct 29 11:48 8590 Nov 02 23:07 8590 Nov 11 01:08 8590 Nov 21 14:43 8590 Dec 02 14:00 8590 Dec 16 03:40 8590 Dec 23 02:13 8590 Dec 26 21:38 8590 Dec 29 08:37 8590 Dec 29 11:47 8591 Jan 03 10:59 8591 Jan 04 22:58	5°M24'30 10°M59'37 21°M20'07 0°ズ 14°ズ12'09 0°उ 12°उ45'19 20°305'12 17°330'46 14°304'33 11°328'56 11°320'36 6°352'50 6°304'57	1°40'40 1.33220 AU 27°23'36 0.64283 AU -1°41'55
max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	8589 Nov 10 14:17 8589 Nov 11 02:40 8589 Nov 14 22:29 8589 Nov 24 04:05 8589 Nov 27 17:33 8589 Dec 20 01:24 8589 Dec 20 18:01 8590 Jan 02 05:35 8590 Jan 08 19:18 8590 Jan 12 21:38 8590 Jan 12 19:51 8590 Jan 14 19:12 8590 Jan 14 20:13	28°M57'32 0°メ 7°メ31'40 24°メ709'19 0°उ 29°उ20'44 0°≈ 6°≈39'35 4°≈04'24 30°Rउ 0°≈05'06 27°उ47'34 27°उ44'37 25°उ46'40 22°उ09'17	1.34651 AU 26°51'17 0.65837 AU -0°35'48	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	8590 Oct 21 21:04 8590 Oct 24 11:37 8590 Oct 29 11:48 8590 Nov 02 23:07 8590 Nov 11 01:08 8590 Nov 21 14:43 8590 Dec 02 14:00 8590 Dec 16 03:40 8590 Dec 23 02:13 8590 Dec 26 21:38 8590 Dec 29 08:37 8590 Dec 29 11:47 8591 Jan 03 10:59	5°M24'30 10°M59'37 21°M20'07 0°ズ 14°ズ12'09 0°उ 12°उ45'19 20°305'12 17°330'46 14°304'33 11°328'56 11°320'36 6°352'50 6°304'57 5°33'12	1°40'40 1.33220 AU 27°23'36 0.64283 AU -1°41'55
max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	8589 Nov 10 14:17 8589 Nov 11 02:40 8589 Nov 14 22:29 8589 Nov 24 04:05 8589 Nov 27 17:33 8589 Dec 20 01:24 8589 Dec 20 18:01 8590 Jan 02 05:35 8590 Jan 08 19:18 8590 Jan 12 21:38 8590 Jan 12 19:51 8590 Jan 14 19:12 8590 Jan 14 20:13 8590 Jan 16 13:55	28°M.57'32 0°メ 7°メ31'40 24°メ709'19 0°云 29°云20'44 0°≈ 6°≈39'35 4°≈04'24 30°Rろ 0°≈05'06 27°云47'34 27°云44'37 25°云46'40	1.34651 AU 26°51'17 0.65837 AU -0°35'48	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	8590 Oct 21 21:04 8590 Oct 24 11:37 8590 Oct 29 11:48 8590 Nov 02 23:07 8590 Nov 11 01:08 8590 Nov 21 14:43 8590 Dec 02 14:00 8590 Dec 16 03:40 8590 Dec 23 02:13 8590 Dec 26 21:38 8590 Dec 29 08:37 8590 Dec 29 11:47 8591 Jan 03 10:59 8591 Jan 04 22:58	5°M24'30 10°M59'37 21°M20'07 0°ズ 14°ズ12'09 0°उ 12°उ45'19 20°305'12 17°330'46 14°304'33 11°328'56 11°320'36 6°352'50 6°304'57	1°40'40 1.33220 AU 27°23'36 0.64283 AU -1°41'55
max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	8589 Nov 10 14:17 8589 Nov 11 02:40 8589 Nov 14 22:29 8589 Nov 24 04:05 8589 Nov 27 17:33 8589 Dec 20 01:24 8589 Dec 20 18:01 8590 Jan 02 05:35 8590 Jan 08 19:18 8590 Jan 12 21:38 8590 Jan 12 19:51 8590 Jan 14 19:12 8590 Jan 14 20:13 8590 Jan 16 13:55 8590 Jan 20 22:12	28°M57'32 0°メ 7°メ31'40 24°メ709'19 0°उ 29°उ20'44 0°≈ 6°≈39'35 4°≈04'24 30°Rउ 0°≈05'06 27°उ47'34 27°उ44'37 25°उ46'40 22°उ09'17	1.34651 AU 26°51'17 0.65837 AU -0°35'48	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	8590 Oct 21 21:04 8590 Oct 24 11:37 8590 Oct 29 11:48 8590 Nov 02 23:07 8590 Nov 11 01:08 8590 Nov 21 14:43 8590 Dec 02 14:00 8590 Dec 16 03:40 8590 Dec 23 02:13 8590 Dec 26 21:38 8590 Dec 29 08:37 8590 Dec 29 11:47 8591 Jan 03 10:59 8591 Jan 04 22:58 8591 Jan 07 10:59	5°M24'30 10°M59'37 21°M20'07 0°ズ 14°ズ12'09 0°उ 12°उ45'19 20°305'12 17°330'46 14°304'33 11°328'56 11°320'36 6°352'50 6°304'57 5°33'12	1°40'40 1.33220 AU 27°23'36 0.64283 AU -1°41'55 1°40'24
max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	8589 Nov 10 14:17 8589 Nov 11 02:40 8589 Nov 14 22:29 8589 Nov 24 04:05 8589 Nov 27 17:33 8589 Dec 20 01:24 8589 Dec 20 18:01 8590 Jan 02 05:35 8590 Jan 08 19:18 8590 Jan 12 21:38 8590 Jan 12 19:51 8590 Jan 14 19:12 8590 Jan 14 20:13 8590 Jan 16 13:55 8590 Jan 20 22:12 8590 Jan 23 17:57	28°M.57'32 0°ダ 7°ダ31'40 24°ダ09'19 0°उ 29°उ20'44 0°≈ 6°≈39'35 4°≈04'24 30°Rउ 0°≈05'06 27°उ47'34 27°उ44'37 25°उ46'40 22°उ09'17 21°उ25'30	1.34651 AU 26°51'17 0.65837 AU -0°35'48 0°35'10	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	8590 Oct 21 21:04 8590 Oct 24 11:37 8590 Oct 29 11:48 8590 Nov 02 23:07 8590 Nov 11 01:08 8590 Nov 21 14:43 8590 Dec 02 14:00 8590 Dec 16 03:40 8590 Dec 23 02:13 8590 Dec 26 21:38 8590 Dec 29 08:37 8590 Dec 29 11:47 8591 Jan 03 10:59 8591 Jan 04 22:58 8591 Jan 07 10:59 8591 Jan 13 21:56	5°M24'30 10°M59'37 21°M20'07 0°ズ 14°ズ12'09 0°उ 12°उ45'19 20°305'12 17°330'46 14°304'33 11°328'56 11°320'36 6°352'50 6°304'57 5°33'12 8°355'24	1°40'40 1.33220 AU 27°23'36 0.64283 AU -1°41'55 1°40'24
max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	8589 Nov 10 14:17 8589 Nov 11 02:40 8589 Nov 14 22:29 8589 Nov 24 04:05 8589 Nov 27 17:33 8589 Dec 20 01:24 8589 Dec 20 18:01 8590 Jan 02 05:35 8590 Jan 08 19:18 8590 Jan 12 21:38 8590 Jan 12 19:51 8590 Jan 14 19:12 8590 Jan 14 20:13 8590 Jan 14 20:13 8590 Jan 16 13:55 8590 Jan 20 22:12 8590 Jan 23 17:57 8590 Jan 30 04:56	28°M.57'32 0°ダ 7°ダ31'40 24°ダ09'19 0°云 29°云20'44 0°≈ 6°≈39'35 4°≈04'24 30°Rउ 0°≈05'06 27°云47'34 27°云47'34 27°云46'40 22°云09'17 21°云25'30 24°云52'11	1.34651 AU 26°51'17 0.65837 AU -0°35'48 0°35'10	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	8590 Oct 21 21:04 8590 Oct 24 11:37 8590 Oct 29 11:48 8590 Nov 02 23:07 8590 Nov 11 01:08 8590 Nov 21 14:43 8590 Dec 02 14:00 8590 Dec 16 03:40 8590 Dec 23 02:13 8590 Dec 26 21:38 8590 Dec 29 08:37 8590 Dec 29 11:47 8591 Jan 03 10:59 8591 Jan 04 22:58 8591 Jan 07 10:59 8591 Jan 13 21:56 8591 Jan 28 04:34	5°M24'30 10°M59'37 21°M20'07 0°ズ 14°ズ12'09 0°उ 12°उ45'19 20°उ05'12 17°उ30'46 14°उ04'33 11°उ28'56 11°उ20'36 6°उ52'50 6°उ04'57 5°उ33'12 8°उ55'24 0°≈	1°40'40 1.33220 AU 27°23'36 0.64283 AU -1°41'55 1°40'24
max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	8589 Nov 10 14:17 8589 Nov 11 02:40 8589 Nov 14 22:29 8589 Nov 24 04:05 8589 Nov 27 17:33 8589 Dec 20 01:24 8589 Dec 20 18:01 8590 Jan 02 05:35 8590 Jan 08 19:18 8590 Jan 12 21:38 8590 Jan 12 19:51 8590 Jan 14 19:12 8590 Jan 14 20:13 8590 Jan 14 20:13 8590 Jan 16 13:55 8590 Jan 20 22:12 8590 Jan 23 17:57 8590 Jan 30 04:56 8590 Feb 03 12:39	28°M.57'32 0°ズ 7°ズ31'40 24°ズ09'19 0°云 29°云20'44 0°≈ 6°≈39'35 4°≈04'24 30°Rउ 0°≈05'06 27°云47'34 27°云47'34 27°云46'40 22°云09'17 21°云25'30 24°云52'11 0°≈	1.34651 AU 26°51'17 0.65837 AU -0°35'48 0°35'10	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	8590 Oct 21 21:04 8590 Oct 24 11:37 8590 Oct 29 11:48 8590 Nov 02 23:07 8590 Nov 11 01:08 8590 Nov 21 14:43 8590 Dec 02 14:00 8590 Dec 16 03:40 8590 Dec 23 02:13 8590 Dec 26 21:38 8590 Dec 29 08:37 8590 Dec 29 11:47 8591 Jan 03 10:59 8591 Jan 04 22:58 8591 Jan 07 10:59 8591 Jan 13 21:56 8591 Jan 28 04:34 8591 Jan 30 21:38	5°M24'30 10°M59'37 21°M20'07 0°ズ 14°ズ12'09 0°उ 12°उ45'19 20°उ05'12 17°उ30'46 14°उ04'33 11°उ28'56 11°उ20'36 6°उ52'50 6°उ04'57 5°उ33'12 8°उ55'24 0°≈ 4°≈34'50	1°40'40 1.33220 AU 27°23'36 0.64283 AU -1°41'55 1°40'24
max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set	8589 Nov 10 14:17 8589 Nov 11 02:40 8589 Nov 14 22:29 8589 Nov 24 04:05 8589 Nov 27 17:33 8589 Dec 20 01:24 8589 Dec 20 18:01 8590 Jan 02 05:35 8590 Jan 08 19:18 8590 Jan 12 21:38 8590 Jan 12 19:51 8590 Jan 14 19:12 8590 Jan 14 20:13 8590 Jan 14 20:13 8590 Jan 16 13:55 8590 Jan 20 22:12 8590 Jan 20 22:12 8590 Jan 30 04:56 8590 Feb 03 12:39 8590 Feb 18 05:31 8590 Feb 20 03:36	28°M.57'32 0°ズ 7°ズ31'40 24°ズ09'19 0°G 29°G20'44 0°≈ 6°≈39'35 4°≈04'24 30°RG 0°≈05'06 27°G47'34 27°G44'37 25°G46'40 22°G09'17 21°G25'30 24°G52'11 0°≈ 22°≈48'50 25°≈54'43	1.34651 AU 26°51'17 0.65837 AU -0°35'48 0°35'10	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	8590 Oct 21 21:04 8590 Oct 24 11:37 8590 Oct 29 11:48 8590 Nov 02 23:07 8590 Nov 11 01:08 8590 Nov 21 14:43 8590 Dec 02 14:00 8590 Dec 16 03:40 8590 Dec 23 02:13 8590 Dec 26 21:38 8590 Dec 29 08:37 8590 Dec 29 11:47 8591 Jan 03 10:59 8591 Jan 04 22:58 8591 Jan 07 10:59 8591 Jan 13 21:56 8591 Jan 28 04:34 8591 Jan 30 21:38 8591 Feb 07 00:31	5°M24'30 10°M59'37 21°M20'07 0°ズ 14°ズ12'09 0°℧ 12°℧45'19 20°℧05'12 17°℧30'46 14°℧04'33 11°℧28'56 11°℧20'36 6°℧52'50 6°℧04'57 5°℧33'12 8°℧55'24 0°≈ 4°≈34'50 16°≈30'34	1°40'40 1.33220 AU 27°23'36 0.64283 AU -1°41'55 1°40'24
max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set	8589 Nov 10 14:17 8589 Nov 11 02:40 8589 Nov 14 22:29 8589 Nov 24 04:05 8589 Nov 27 17:33 8589 Dec 20 01:24 8589 Dec 20 18:01 8590 Jan 02 05:35 8590 Jan 08 19:18 8590 Jan 12 21:38 8590 Jan 12 19:51 8590 Jan 14 19:12 8590 Jan 14 20:13 8590 Jan 14 20:13 8590 Jan 16 13:55 8590 Jan 20 22:12 8590 Jan 20 22:12 8590 Jan 30 04:56 8590 Feb 03 12:39 8590 Feb 18 05:31	28°M.57'32 0°ズ 7°ズ31'40 24°ズ09'19 0°उ 29°उ20'44 0°≈ 6°≈39'35 4°≈04'24 30°₹उ 0°≈05'06 27°उ47'34 27°उ44'37 25°उ46'40 22°उ09'17 21°उ25'30 24°उ52'11 0°≈ 22°≈48'50	1.34651 AU 26°51'17 0.65837 AU -0°35'48 0°35'10	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj	8590 Oct 21 21:04 8590 Oct 24 11:37 8590 Oct 29 11:48 8590 Nov 02 23:07 8590 Nov 11 01:08 8590 Nov 21 14:43 8590 Dec 02 14:00 8590 Dec 16 03:40 8590 Dec 23 02:13 8590 Dec 26 21:38 8590 Dec 29 08:37 8590 Dec 29 11:47 8591 Jan 03 10:59 8591 Jan 04 22:58 8591 Jan 07 10:59 8591 Jan 13 21:56 8591 Jan 28 04:34 8591 Jan 30 21:38 8591 Feb 07 00:31	5°M24'30 10°M59'37 21°M20'07 0°ズ 14°ズ12'09 0°℧ 12°℧45'19 20°℧05'12 17°℧30'46 14°℧04'33 11°℧28'56 11°℧20'36 6°℧52'50 6°℧04'57 5°℧33'12 8°℧55'24 0°≈ 4°≈34'50 16°≈30'34	1°40'40 1.33220 AU 27°23'36 0.64283 AU -1°41'55 1°40'24 17°52'09
max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	8589 Nov 10 14:17 8589 Nov 11 02:40 8589 Nov 14 22:29 8589 Nov 24 04:05 8589 Nov 27 17:33 8589 Dec 20 01:24 8589 Dec 20 01:24 8589 Dec 20 18:01 8590 Jan 02 05:35 8590 Jan 08 19:18 8590 Jan 12 21:38 8590 Jan 12 19:51 8590 Jan 14 19:12 8590 Jan 14 20:13 8590 Jan 16 13:55 8590 Jan 20 22:12 8590 Jan 20 22:12 8590 Jan 30 04:56 8590 Feb 03 12:39 8590 Feb 18 05:31 8590 Feb 20 03:36 8590 Feb 22 16:39	28°M.57'32 0°ズ 7°ズ31'40 24°ズ09'19 0°उ 29°उ20'44 0°≈ 6°≈39'35 4°≈04'24 30°Rउ 0°≈05'06 27°उ47'34 27°उ44'37 25°उ46'40 22°उ09'17 21°उ25'30 24°उ52'11 0°≈ 22°≈48'50 25°≈54'43 0°光	1.34651 AU 26°51'17 0.65837 AU -0°35'48 0°35'10	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	8590 Oct 21 21:04 8590 Oct 24 11:37 8590 Oct 29 11:48 8590 Nov 02 23:07 8590 Nov 11 01:08 8590 Nov 21 14:43 8590 Dec 02 14:00 8590 Dec 16 03:40 8590 Dec 23 02:13 8590 Dec 26 21:38 8590 Dec 29 08:37 8590 Dec 29 11:47 8591 Jan 03 10:59 8591 Jan 04 22:58 8591 Jan 07 10:59 8591 Jan 13 21:56 8591 Jan 28 04:34 8591 Jan 30 21:38 8591 Feb 07 00:31 8591 Feb 13 04:30 8591 Feb 13 04:30 8591 Feb 12 23:31	5°M24'30 10°M59'37 21°M20'07 0°ズ 14°ズ12'09 0°℧ 12°℧45'19 20°℧05'12 17°℧30'46 14°℧04'33 11°℧28'56 11°℧20'36 6°℧52'50 6°℧04'57 5°℧33'12 8°℧55'24 0°≈ 4°≈34'50 16°≈30'34	1°40'40 1.33220 AU 27°23'36 0.64283 AU -1°41'55 1°40'24 17°52'09
max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj	8589 Nov 10 14:17 8589 Nov 11 02:40 8589 Nov 14 22:29 8589 Nov 24 04:05 8589 Nov 27 17:33 8589 Dec 20 01:24 8589 Dec 20 18:01 8590 Jan 02 05:35 8590 Jan 08 19:18 8590 Jan 12 21:38 8590 Jan 12 19:51 8590 Jan 14 19:12 8590 Jan 14 20:13 8590 Jan 16 13:55 8590 Jan 20 22:12 8590 Jan 20 22:12 8590 Jan 30 04:56 8590 Feb 03 12:39 8590 Feb 18 05:31 8590 Feb 20 03:36 8590 Feb 22 16:39	28°M.57'32 0°ズ 7°ズ31'40 24°ズ09'19 0°उ 29°उ20'44 0°≈ 6°≈39'35 4°≈04'24 30°Rउ 0°≈05'06 27°उ47'34 27°उ44'37 25°उ46'40 22°उ09'17 21°उ25'30 24°उ52'11 0°≈ 22°≈48'50 25°≈54'43 0°沃	1.34651 AU 26°51'17 0.65837 AU -0°35'48 0°35'10 18°13'22	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	8590 Oct 21 21:04 8590 Oct 24 11:37 8590 Oct 29 11:48 8590 Nov 02 23:07 8590 Nov 11 01:08 8590 Nov 21 14:43 8590 Dec 02 14:00 8590 Dec 16 03:40 8590 Dec 26 21:38 8590 Dec 26 21:38 8590 Dec 29 08:37 8590 Dec 29 11:47 8591 Jan 03 10:59 8591 Jan 04 22:58 8591 Jan 07 10:59 8591 Jan 13 21:56 8591 Jan 28 04:34 8591 Jan 30 21:38 8591 Feb 07 00:31 8591 Feb 13 04:30 8591 Feb 13 04:30 8591 Feb 12 23:31 8591 Feb 15 07:41	5°M24'30 10°M59'37 21°M20'07 0°ズ 14°ズ12'09 0°G 12°G45'19 20°G05'12 17°G30'46 14°G04'33 11°G28'56 6°G52'50 6°G04'57 5°G33'12 8°G55'24 0°≈ 4°≈34'50 16°≈30'34 26°≈34'37 26°≈14'35 0°光	1°40'40 1.33220 AU 27°23'36 0.64283 AU -1°41'55 1°40'24 17°52'09 -0°43'50 0°43'01
max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	8589 Nov 10 14:17 8589 Nov 11 02:40 8589 Nov 14 22:29 8589 Nov 24 04:05 8589 Nov 27 17:33 8589 Dec 20 01:24 8589 Dec 20 18:01 8590 Jan 02 05:35 8590 Jan 08 19:18 8590 Jan 12 21:38 8590 Jan 12 19:51 8590 Jan 14 19:12 8590 Jan 14 20:13 8590 Jan 16 13:55 8590 Jan 16 13:55 8590 Jan 20 22:12 8590 Jan 20 22:12 8590 Jan 30 04:56 8590 Feb 03 12:39 8590 Feb 18 05:31 8590 Feb 20 03:36 8590 Feb 22 16:39	28°M.57'32 0°ズ 7°ズ31'40 24°ズ09'19 0°उ 29°उ20'44 0°≈ 6°≈39'35 4°≈04'24 30°Rउ 0°≈05'06 27°उ47'34 27°उ44'37 25°उ46'40 22°उ09'17 21°उ25'30 24°उ52'11 0°≈ 22°≈48'50 25°≈54'43 0°Ж 17°光03'10 16°光26'41	1.34651 AU 26°51'17 0.65837 AU -0°35'48 0°35'10 18°13'22 -1°26'48 1°25'44	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	8590 Oct 21 21:04 8590 Oct 24 11:37 8590 Oct 29 11:48 8590 Nov 02 23:07 8590 Nov 11 01:08 8590 Nov 21 14:43 8590 Dec 02 14:00 8590 Dec 16 03:40 8590 Dec 23 02:13 8590 Dec 26 21:38 8590 Dec 29 08:37 8590 Dec 29 11:47 8591 Jan 03 10:59 8591 Jan 04 22:58 8591 Jan 07 10:59 8591 Jan 13 21:56 8591 Jan 28 04:34 8591 Jan 30 21:38 8591 Feb 07 00:31 8591 Feb 13 04:30 8591 Feb 12 23:31 8591 Feb 15 07:41 8591 Feb 18 04:23	5°M24'30 10°M59'37 21°M20'07 0°ズ 14°ズ12'09 0°G 12°G45'19 20°G05'12 17°G30'46 14°G04'33 11°G28'56 11°G20'36 6°G52'50 6°G04'57 5°G33'12 8°G55'24 0°≈ 4°≈34'50 16°≈30'34 26°≈34'37 26°≈14'35 0° 光 4° 光 32'57	1°40'40 1.33220 AU 27°23'36 0.64283 AU -1°41'55 1°40'24 17°52'09
max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj	8589 Nov 10 14:17 8589 Nov 11 02:40 8589 Nov 14 22:29 8589 Nov 24 04:05 8589 Nov 27 17:33 8589 Dec 20 01:24 8589 Dec 20 18:01 8590 Jan 02 05:35 8590 Jan 08 19:18 8590 Jan 12 21:38 8590 Jan 12 19:51 8590 Jan 14 19:12 8590 Jan 14 20:13 8590 Jan 16 13:55 8590 Jan 20 22:12 8590 Jan 20 22:12 8590 Jan 30 04:56 8590 Feb 03 12:39 8590 Feb 03 12:39 8590 Feb 18 05:31 8590 Feb 20 03:36 8590 Feb 22 16:39 8590 Mar 05 10:42 8590 Mar 05 01:25 8590 Mar 07 08:49	28°M.57'32 0°ズ 7°ズ31'40 24°ズ09'19 0°उ 29°उ20'44 0°≈ 6°≈39'35 4°≈04'24 30°Rउ 0°≈05'06 27°उ47'34 27°उ44'37 25°उ46'40 22°उ09'17 21°उ25'30 24°उ52'11 0°≈ 22°≈48'50 25°≈54'43 0°Ж 17°光03'10 16°光26'41 20°米04'00	1.34651 AU 26°51'17 0.65837 AU -0°35'48 0°35'10 18°13'22	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	8590 Oct 21 21:04 8590 Oct 24 11:37 8590 Oct 29 11:48 8590 Nov 02 23:07 8590 Nov 11 01:08 8590 Nov 21 14:43 8590 Dec 02 14:00 8590 Dec 16 03:40 8590 Dec 23 02:13 8590 Dec 26 21:38 8590 Dec 29 08:37 8590 Dec 29 11:47 8591 Jan 03 10:59 8591 Jan 04 22:58 8591 Jan 07 10:59 8591 Jan 13 21:56 8591 Jan 28 04:34 8591 Jan 30 21:38 8591 Feb 07 00:31 8591 Feb 13 04:30 8591 Feb 12 23:31 8591 Feb 15 07:41 8591 Feb 18 04:23 8591 Mar 01 02:25	5°M24'30 10°M59'37 21°M20'07 0°ズ 14°ズ12'09 0°G 12°G45'19 20°G05'12 17°G30'46 14°G04'33 11°G28'56 11°G20'36 6°G52'50 6°G04'57 5°G33'12 8°G55'24 0°≈ 4°≈34'50 16°≈30'34 26°≈34'37 26°≈14'35 0° 光 4° 光32'57 21° 光32'23	1°40'40 1.33220 AU 27°23'36 0.64283 AU -1°41'55 1°40'24 17°52'09 -0°43'50 0°43'01
max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	8589 Nov 10 14:17 8589 Nov 11 02:40 8589 Nov 14 22:29 8589 Nov 24 04:05 8589 Nov 27 17:33 8589 Dec 20 01:24 8589 Dec 20 18:01 8590 Jan 02 05:35 8590 Jan 08 19:18 8590 Jan 12 21:38 8590 Jan 12 19:51 8590 Jan 14 19:12 8590 Jan 14 20:13 8590 Jan 16 13:55 8590 Jan 16 13:55 8590 Jan 20 22:12 8590 Jan 20 22:12 8590 Jan 30 04:56 8590 Feb 03 12:39 8590 Feb 18 05:31 8590 Feb 20 03:36 8590 Feb 22 16:39	28°M.57'32 0°ズ 7°ズ31'40 24°ズ09'19 0°उ 29°उ20'44 0°≈ 6°≈39'35 4°≈04'24 30°₹उ 0°≈05'06 27°उ47'34 27°उ44'37 25°उ46'40 22°З09'17 21°उ25'30 24°उ52'11 0°≈ 22°≈48'50 25°≈54'43 0°Ҡ 17°Ҡ03'10 16°Ҡ26'41 20°Ҡ04'00 0°℃	1.34651 AU 26°51'17 0.65837 AU -0°35'48 0°35'10 18°13'22 -1°26'48 1°25'44	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	8590 Oct 21 21:04 8590 Oct 24 11:37 8590 Oct 29 11:48 8590 Nov 02 23:07 8590 Nov 11 01:08 8590 Nov 21 14:43 8590 Dec 02 14:00 8590 Dec 16 03:40 8590 Dec 23 02:13 8590 Dec 26 21:38 8590 Dec 29 08:37 8590 Dec 29 11:47 8591 Jan 03 10:59 8591 Jan 04 22:58 8591 Jan 07 10:59 8591 Jan 13 21:56 8591 Jan 28 04:34 8591 Jan 30 21:38 8591 Feb 07 00:31 8591 Feb 13 04:30 8591 Feb 12 23:31 8591 Feb 15 07:41 8591 Feb 18 04:23	5°M24'30 10°M59'37 21°M20'07 0°ズ 14°ズ12'09 0°G 12°G45'19 20°G05'12 17°G30'46 14°G04'33 11°G28'56 11°G20'36 6°G52'50 6°G04'57 5°G33'12 8°G55'24 0°≈ 4°≈34'50 16°≈30'34 26°≈34'37 26°≈14'35 0° 光 4° 光32'57 21° 光32'23 0° Υ	1°40'40 1.33220 AU 27°23'36 0.64283 AU -1°41'55 1°40'24 17°52'09 -0°43'50 0°43'01
max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	8589 Nov 10 14:17 8589 Nov 11 02:40 8589 Nov 14 22:29 8589 Nov 24 04:05 8589 Nov 27 17:33 8589 Dec 20 01:24 8589 Dec 20 18:01 8590 Jan 02 05:35 8590 Jan 08 19:18 8590 Jan 12 21:38 8590 Jan 12 19:51 8590 Jan 14 19:12 8590 Jan 14 20:13 8590 Jan 16 13:55 8590 Jan 20 22:12 8590 Jan 20 22:12 8590 Jan 30 04:56 8590 Feb 03 12:39 8590 Feb 03 12:39 8590 Feb 18 05:31 8590 Feb 20 03:36 8590 Feb 22 16:39 8590 Mar 05 10:42 8590 Mar 05 01:25 8590 Mar 07 08:49	28°M.57'32 0°ズ 7°ズ31'40 24°ズ09'19 0°उ 29°उ20'44 0°≈ 6°≈39'35 4°≈04'24 30°Rउ 0°≈05'06 27°उ47'34 27°उ44'37 25°उ46'40 22°उ09'17 21°उ25'30 24°उ52'11 0°≈ 22°≈48'50 25°≈54'43 0°Ж 17°光03'10 16°光26'41 20°米04'00	1.34651 AU 26°51'17 0.65837 AU -0°35'48 0°35'10 18°13'22 -1°26'48 1°25'44	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	8590 Oct 21 21:04 8590 Oct 24 11:37 8590 Oct 29 11:48 8590 Nov 02 23:07 8590 Nov 11 01:08 8590 Nov 21 14:43 8590 Dec 02 14:00 8590 Dec 16 03:40 8590 Dec 23 02:13 8590 Dec 26 21:38 8590 Dec 29 08:37 8590 Dec 29 11:47 8591 Jan 03 10:59 8591 Jan 04 22:58 8591 Jan 07 10:59 8591 Jan 13 21:56 8591 Jan 28 04:34 8591 Jan 30 21:38 8591 Feb 07 00:31 8591 Feb 13 04:30 8591 Feb 12 23:31 8591 Feb 15 07:41 8591 Feb 18 04:23 8591 Mar 01 02:25	5°M24'30 10°M59'37 21°M20'07 0°ズ 14°ズ12'09 0°G 12°G45'19 20°G05'12 17°G30'46 14°G04'33 11°G28'56 11°G20'36 6°G52'50 6°G04'57 5°G33'12 8°G55'24 0°≈ 4°≈34'50 16°≈30'34 26°≈34'37 26°≈14'35 0° 光 4° 光32'57 21° 光32'23	1°40'40 1.33220 AU 27°23'36 0.64283 AU -1°41'55 1°40'24 17°52'09 -0°43'50 0°43'01
max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	8589 Nov 10 14:17 8589 Nov 11 02:40 8589 Nov 14 22:29 8589 Nov 24 04:05 8589 Nov 27 17:33 8589 Dec 20 01:24 8589 Dec 20 18:01 8590 Jan 02 05:35 8590 Jan 08 19:18 8590 Jan 12 21:38 8590 Jan 12 19:51 8590 Jan 14 19:12 8590 Jan 14 20:13 8590 Jan 16 13:55 8590 Jan 20 22:12 8590 Jan 20 22:12 8590 Jan 30 04:56 8590 Feb 03 12:39 8590 Feb 03 12:39 8590 Feb 18 05:31 8590 Feb 20 03:36 8590 Feb 22 16:39 8590 Mar 05 10:42 8590 Mar 05 01:25 8590 Mar 07 08:49 8590 Mar 13 17:26	28°M.57'32 0°ズ 7°ズ31'40 24°ズ09'19 0°उ 29°उ20'44 0°≈ 6°≈39'35 4°≈04'24 30°₹उ 0°≈05'06 27°उ47'34 27°उ44'37 25°उ46'40 22°З09'17 21°उ25'30 24°उ52'11 0°≈ 22°≈48'50 25°≈54'43 0°Ҡ 17°Ҡ03'10 16°Ҡ26'41 20°Ҡ04'00 0°℃	1.34651 AU 26°51'17 0.65837 AU -0°35'48 0°35'10 18°13'22 -1°26'48 1°25'44	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	8590 Oct 21 21:04 8590 Oct 24 11:37 8590 Oct 29 11:48 8590 Nov 02 23:07 8590 Nov 11 01:08 8590 Nov 21 14:43 8590 Dec 02 14:00 8590 Dec 16 03:40 8590 Dec 23 02:13 8590 Dec 26 21:38 8590 Dec 29 08:37 8590 Dec 29 11:47 8591 Jan 03 10:59 8591 Jan 04 22:58 8591 Jan 07 10:59 8591 Jan 07 10:59 8591 Jan 13 21:56 8591 Jan 28 04:34 8591 Jan 30 21:38 8591 Feb 07 00:31 8591 Feb 13 04:30 8591 Feb 13 04:30 8591 Feb 15 07:41 8591 Feb 18 04:23 8591 Mar 01 02:25 8591 Mar 06 15:31	5°M24'30 10°M59'37 21°M20'07 0°ズ 14°ズ12'09 0°G 12°G45'19 20°G05'12 17°G30'46 14°G04'33 11°G28'56 11°G20'36 6°G52'50 6°G04'57 5°G33'12 8°G55'24 0°≈ 4°≈34'50 16°≈30'34 26°≈34'37 26°≈14'35 0° 光 4° 光32'57 21° 光32'23 0° Υ	1°40'40 1.33220 AU 27°23'36 0.64283 AU -1°41'55 1°40'24 17°52'09 -0°43'50 0°43'01 1.44942 AU
max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	8589 Nov 10 14:17 8589 Nov 11 02:40 8589 Nov 14 22:29 8589 Nov 24 04:05 8589 Nov 27 17:33 8589 Dec 20 01:24 8589 Dec 20 01:24 8589 Dec 20 18:01 8590 Jan 02 05:35 8590 Jan 08 19:18 8590 Jan 12 21:38 8590 Jan 12 19:51 8590 Jan 14 19:12 8590 Jan 14 19:12 8590 Jan 16 13:55 8590 Jan 20 22:12 8590 Jan 20 22:12 8590 Jan 30 04:56 8590 Feb 03 12:39 8590 Feb 03 12:39 8590 Feb 18 05:31 8590 Feb 20 03:36 8590 Feb 20 10:42 8590 Mar 05 10:42 8590 Mar 05 01:25 8590 Mar 07 08:49 8590 Mar 21 13:08 8590 Apr 02 04:48	28°M.57'32 0°ズ 7°ズ31'40 24°ズ09'19 0°उ 29°उ20'44 0°≈ 6°≈39'35 4°≈04'24 30°๙उ 0°≈05'06 27°उ47'34 27°उ44'37 25°उ46'40 22°उ09'17 21°उ25'30 24°उ52'11 0°≈ 22°≈48'50 25°≈54'43 0° ዢ 17° Ж03'10 16° Ж26'41 20° Ж04'00 0° Ŷ 12°Ŷ11'28	1.34651 AU 26°51'17 0.65837 AU -0°35'48 0°35'10 18°13'22 -1°26'48 1°25'44 1.45516 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	8590 Oct 21 21:04 8590 Oct 24 11:37 8590 Oct 29 11:48 8590 Nov 02 23:07 8590 Nov 11 01:08 8590 Nov 21 14:43 8590 Dec 02 14:00 8590 Dec 16 03:40 8590 Dec 23 02:13 8590 Dec 26 21:38 8590 Dec 29 08:37 8590 Dec 29 11:47 8591 Jan 03 10:59 8591 Jan 04 22:58 8591 Jan 07 10:59 8591 Jan 07 10:59 8591 Jan 13 21:56 8591 Jan 28 04:34 8591 Jan 30 21:38 8591 Feb 07 00:31 8591 Feb 13 04:30 8591 Feb 13 04:30 8591 Feb 15 07:41 8591 Feb 15 07:41 8591 Feb 16 15:31 8591 Mar 06 15:31 8591 Mar 15 18:07	5°M24'30 10°M59'37 21°M20'07 0°ズ 14°ズ12'09 0°उ 12°उ45'19 20°उ05'12 17°उ30'46 14°उ04'33 11°उ28'56 11°उ20'36 6°उ52'50 6°उ04'57 5°उ33'12 8°उ55'24 0°≈ 4°≈34'50 16°≈30'34 26°≈14'35 0°Ж 4°Ж32'57 21°Ж32'23 0°℃	1°40'40 1.33220 AU 27°23'36 0.64283 AU -1°41'55 1°40'24 17°52'09 -0°43'50 0°43'01 1.44942 AU
max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	8589 Nov 10 14:17 8589 Nov 11 02:40 8589 Nov 14 22:29 8589 Nov 24 04:05 8589 Nov 27 17:33 8589 Dec 20 01:24 8589 Dec 20 18:01 8590 Jan 02 05:35 8590 Jan 08 19:18 8590 Jan 12 21:38 8590 Jan 12 19:51 8590 Jan 14 19:12 8590 Jan 14 20:13 8590 Jan 14 20:13 8590 Jan 16 13:55 8590 Jan 20 22:12 8590 Jan 20 22:12 8590 Jan 30 04:56 8590 Feb 03 12:39 8590 Feb 03 12:39 8590 Feb 18 05:31 8590 Feb 20 03:36 8590 Feb 20 03:36 8590 Feb 21 16:39	28°M.57'32 0°ズ 7°ズ31'40 24°ズ09'19 0°云 29°云20'44 0°≈ 6°≈39'35 4°≈04'24 30°Rउ 0°≈05'06 27°उ47'34 27°उ44'37 25°उ46'40 22°उ09'17 21°उ25'30 24°उ52'11 0°≈ 22°≈48'50 25°≈54'43 0°ዢ 17°Ж03'10 16°Ж26'41 20°Ж04'00 0°℃ 12°℃11'28 0°℃13'59	1.34651 AU 26°51'17 0.65837 AU -0°35'48 0°35'10 18°13'22 -1°26'48 1°25'44 1.45516 AU -0.7m	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	8590 Oct 21 21:04 8590 Oct 24 11:37 8590 Oct 29 11:48 8590 Nov 02 23:07 8590 Nov 11 01:08 8590 Nov 21 14:43 8590 Dec 02 14:00 8590 Dec 16 03:40 8590 Dec 23 02:13 8590 Dec 26 21:38 8590 Dec 29 08:37 8590 Dec 29 11:47 8591 Jan 03 10:59 8591 Jan 04 22:58 8591 Jan 07 10:59 8591 Jan 07 10:59 8591 Jan 13 21:56 8591 Jan 28 04:34 8591 Jan 30 21:38 8591 Feb 07 00:31 8591 Feb 13 04:30 8591 Feb 13 04:30 8591 Feb 15 07:41 8591 Feb 18 04:23 8591 Mar 01 02:25 8591 Mar 06 15:31 8591 Mar 15 18:07 8591 Mar 28 06:54	5°M24'30 10°M59'37 21°M20'07 0°ズ 14°ズ12'09 0°उ 12°उ45'19 20°उ05'12 17°उ30'46 14°उ04'33 11°उ28'56 11°उ20'36 6°उ52'50 6°उ04'57 5°उ33'12 8°उ55'24 0°≈ 4°≈34'50 16°≈30'34 26°≈34'37 26°≈14'35 0°ዢ 4°⊀32'57 21°⊀32'23 0°♈ 13°Ŷ35'42	1°40'40 1.33220 AU 27°23'36 0.64283 AU -1°41'55 1°40'24 17°52'09 -0°43'50 0°43'01 1.44942 AU -0.6m

retrograde	8591 Apr 05 06:14	4° 8 41'56			8592 Feb 28 05:56	0°Υ	
evening set	8591 Apr 09 03:37	3° 8 14'13		evening max el	8592 Mar 10 08:30	13° Y 48'54	21°23'04
	8591 Apr 12 07:53	30°R Y		asc. node	8592 Mar 18 06:57	18° Y 57'56	
inferior conj	8591 Apr 14 11:30	27° Υ 10'07	3°12'08	retrograde	8592 Mar 19 04:33	19° Ƴ 02'03	
minimum elong	8591 Apr 14 10:07	27° Ƴ 14'48	3°11'53	evening set	8592 Mar 23 11:48	17° Ƴ 19'13	
min. Earth dist.	8591 Apr 15 06:46	26° Ƴ 04'34	0.67668 AU	inferior conj	8592 Mar 28 19:02	11° Y 03'45	2°51'23
morning rise	8591 Apr 19 16:25	20° Ƴ 53'16		minimum elong	8592 Mar 28 17:01	11° Y 10'47	2°50'56
direct	8591 Apr 25 09:31	18° Ƴ 20′25		min. Earth dist.	8592 Mar 29 01:10	10° Ƴ 42'25	0.68273 AU
desc. node	8591 May 06 00:24	24° Y 20'49		morning rise	8592 Apr 02 22:03	4° Y 50'09	
morning max el	8591 May 06 22:05	25° Ƴ 14'34	24°38'56	direct	8592 Apr 08 01:32	2° Y 35'14	
	8591 May 11 05:41	8° 0		morning max el	8592 Apr 18 07:46	8° Ƴ 40'57	23°09'13
	8591 Jun 01 11:53	$\Pi^{\circ}0$		desc. node	8592 Apr 21 21:20	12° Y 34'22	
morning set	8591 Jun 11 19:34	17° Ⅱ 15′20			8592 May 05 00:33	9° 8	
max. Earth dist.	8591 Jun 15 10:31	23° Ⅱ 44'38	1.37354 AU	morning set	8592 May 23 00:52	28° 8 01'39	
	8591 Jun 18 19:30	0°ಅ			8592 May 24 05:05	$\Pi^{\circ}0$	
				max. Earth dist.	8592 May 27 06:33	5° Ⅱ 13'39	1.39594 AU
superior conj	8591 Jun 22 05:17	6° © 31'17	-0°58'00				
minimum elong	8591 Jun 22 08:54	6°9548'48	0°57'35	superior conj	8592 Jun 03 22:58	18° Ⅱ 57'32	-1°29'00
asc. node	8591 Jun 28 08:49	18° © 41'23		minimum elong	8592 Jun 04 04:24	19° Ⅱ 22'36	1°28'27
evening rise	8591 Jun 30 18:33	23° © 30'18			8592 Jun 09 19:47	0 \circ \odot	
	8591 Jul 04 01:36	$0^{\circ}\Omega$		evening rise	8592 Jun 13 12:47	7° © 07'17	
evening max el	8591 Jul 17 13:27	20° Ω 54'00	19°19'45	asc. node	8592 Jun 14 05:51	8°529'08	
retrograde	8591 Jul 26 21:03	25° Ω 30′29			8592 Jun 26 21:44	$0^{\circ}\Omega$	
evening set	8591 Jul 28 17:45	25° Ω 20′13		evening max el	8592 Jun 29 15:22	3° Ω 06′21	18°35'06
desc. node	8591 Aug 01 23:34	23° Ω 49'14		retrograde	8592 Jul 07 12:51	7° Ω 02'02	
inferior conj	8591 Aug 06 08:12	21° Ω 11'41	-1°20'20	evening set	8592 Jul 09 14:49	6° Ω 46'32	
minimum elong	8591 Aug 06 04:37			inferior conj	8592 Jul 17 09:50	2° Ω 19'31	0°26'04
min. Earth dist.	8591 Aug 08 23:20	19° Ω 28′20	0.55839 AU	minimum elong	8592 Jul 17 10:47	2° Ω 17'40	0°25'31
morning rise	8591 Aug 14 12:44	16° Ω 33'10		desc. node	8592 Jul 18 20:41	1° Ω 12'13	
direct	8591 Aug 19 12:54	15° Ω 36′03			8592 Jul 20 10:48	30° ₹ 5	
morning max el	8591 Sep 02 15:19	22° Ω 43'34	25°20'14	min. Earth dist.	8592 Jul 20 17:07	29° © 48'23	0.57584 AU
	8591 Sep 09 03:04	0° т р		morning rise	8592 Jul 25 03:14	27° © 03'56	
asc. node	8591 Sep 24 08:29	24° mp 48'31		direct	8592 Jul 30 22:58	25° © 38'30	
	8591 Sep 26 22:28	0∘ ರ			8592 Aug 10 14:44	$0^{\circ}\Omega$	
morning set	8591 Sep 29 10:49	5° ≏ 16'15		morning max el	8592 Aug 14 07:45	3° Ω 14'05	26°45'41
				_	8592 Sep 02 15:28	0° т р	
superior conj	8591 Oct 06 07:31	20° £ 15'52	1°34'52	asc. node	8592 Sep 10 05:26	14° Mp 26'44	
minimum elong	8591 Oct 06 06:01	20° ♀ 07'40	1°34'50	morning set	8592 Sep 12 20:47	19° m 56'28	
max. Earth dist.	8591 Oct 07 16:13	23° £ 15′26	1.32237 AU		8592 Sep 17 11:54	0∘ ত	
	8591 Oct 10 18:59	0°M			0.500.0 10.10.10	50.000	1000100
evening rise	8591 Oct 13 10:24	5°M33'13		superior conj	8592 Sep 19 19:10	5° Ω 06'20	1°23'39
	8591 Oct 26 13:31	0° ∡ 7		minimum elong	8592 Sep 19 17:05		1°23'25
desc. node	8591 Oct 28 22:14	3°×748'33	2702/152	max. Earth dist.	8592 Sep 20 01:11	5° Ω 39'44	1.31713 AU
evening max el	8591 Nov 14 23:50	25° ₹ '40'10	27°26'52	evening rise	8592 Sep 26 15:25	20° Ω 02'21	
. 1	8591 Nov 20 08:45	0°る		1 1	8592 Oct 01 12:40	0°M	
retrograde	8591 Nov 28 18:55	2°る56'14 0°る31'32		desc. node	8592 Oct 14 19:21	22° M .47′03 0° ₹	
evening set	8591 Dec 05 21:12 8591 Dec 06 15:09	0 O3132 30°R⊀		evening max el	8592 Oct 20 01:55 8592 Oct 27 04:26	0 x . 7° x 52'57	26°56'57
min. Earth dist.	8591 Dec 00 13:09 8591 Dec 09 13:35	27° ₹ 33'41	0.62431 AU	retrograde	8592 Nov 10 02:20	15° ₹ 02'55	20 30 37
inferior conj	8591 Dec 12 10:59	24° 🗷 50'14		evening set	8592 Nov 17 00:20	13 x 02 33	
minimum elong	8591 Dec 12 16:29	24° x 30°14 24° x 37'16		min. Earth dist.	8592 Nov 20 18:57	12 x ⋅ 38 33	0.60374 AU
morning rise	8591 Dec 12 10:29 8591 Dec 19 13:56	19° х 43'45	2 49 33	inferior conj	8592 Nov 20 18:57 8592 Nov 23 22:55	7°×7'42'35	
asc. node	8591 Dec 21 08:02	19° × 21'36		minimum elong	8592 Nov 24 06:08	7° 🖈 27'36	
direct	8591 Dec 21 20:37	19° 🖈 20'21		morning rise	8592 Dec 01 14:23	2° × 56'30	3 37 20
morning max el	8591 Dec 28 15:01	22° × ⁷ 47'26	17°48'33	direct	8592 Dec 01 14:23 8592 Dec 03 18:59	2°×30'56	
morning max ci	8592 Jan 03 06:26	22 メ ・4720 0°る	1 70 33	asc. node	8592 Dec 07 05:04	2 x 37 30 3° x 25'17	
morning set	8592 Jan 13 12:45	0 3 17° る 26'35		morning max el	8592 Dec 11 04:44	6° ₹ 18'55	18°03'47
	8592 Jan 20 16:09	0°≈			8592 Dec 26 06:31	0°점	10 00 17
	35,2 tan 20 10.0)	J . J .		morning set	8592 Dec 26 20:34	1°る05'17	
superior conj	8592 Jan 24 22:24	7° ≈ 16'38	-0°00'18		30,2 200 20 20.34	. 00017	
minimum elong	8592 Jan 24 22:24	7°≈16'37		superior conj	8593 Jan 05 17:25	19° ට 10'27	0°37'05
behind sun begin	8592 Jan 24 13:34	6°≈39'19	3 33 07	minimum elong	8593 Jan 05 20:10	19° る 22'41	0°36'53
behind sun end	8592 Jan 25 07:14	0 ≈5315 7°≈53'50		desc. node	8593 Jan 10 18:26	19 3 2241 27° 3 57'30	3 33 33
desc. node	8592 Jan 24 21:27	7°≈12'34		desc. Hode	8593 Jan 11 23:17	27 ⊙ 3730	
max. Earth dist.	8592 Jan 31 20:44	18°≈42'32	1.43697 AU	max. Earth dist.	8593 Jan 13 08:24	0 ~ 2° ≈ 19'07	1.41924 AU
Julian William	8592 Feb 07 23:48	0° \		evening rise	8593 Jan 18 18:10	11°≈09'52	
evening rise	8592 Feb 08 15:21	1° ∺ 00'21			8593 Jan 31 00:29	0° ∺	
-0		,,,,,,					

evening max el	8593 Feb 21 01:46	27°) 31′02	22°40'42	evening max el	8594 Feb 03 16:08	11°) 16'42	24°00'52
<i>y</i>	8593 Feb 23 18:09	$0^{\circ}\Upsilon$		retrograde	8594 Feb 14 18:01	17°) (47′21	
retrograde	8593 Mar 03 00:56	3° Y 25′28		evening set	8594 Feb 20 00:33	15°) 35′30	
asc. node	8593 Mar 05 04:03	3° Y ′02'44		asc. node	8594 Feb 20 01:09	15°) 34′12	
evening set	8593 Mar 07 19:17	1° Ƴ 27'44		inferior conj	8594 Feb 25 11:52	9°) €07'27	1°42'04
-	8593 Mar 09 07:41	30° ₹ ₩		minimum elong	8594 Feb 25 09:51	9°) 14'19	1°41'27
inferior conj	8593 Mar 13 03:47	25°) €04'06	2°21'07	min. Earth dist.	8594 Feb 24 18:12	10°) 07′22	0.68222 AU
minimum elong	8593 Mar 13 01:32	25° 升 11'55	2°20'30	morning rise	8594 Mar 02 19:10	3°) €04'47	
min. Earth dist.	8593 Mar 12 21:46	25°) €25'03	0.68451 AU	direct	8594 Mar 06 19:24	1°) €33'36	
morning rise	8593 Mar 18 07:39	18° ¥ 55′12		morning max el	8594 Mar 14 16:39	6°) €02'04	20°24'38
direct	8593 Mar 22 21:15	17°) €01'44		desc. node	8594 Mar 26 15:11	21°) (10′21	
morning max el	8593 Mar 31 20:51	22° 升 15'42	21°42'07		8594 Apr 01 16:21	0 ° $\mathbf{\Upsilon}$	
	8593 Apr 07 12:53	0 ° $\mathbf{\Upsilon}$		morning set	8594 Apr 12 05:40	16° Ƴ 01'36	
desc. node	8593 Apr 08 18:16	1° Y 35'19			8594 Apr 21 02:36	8°	
	8593 Apr 28 07:49	8°		max. Earth dist.	8594 Apr 21 13:52	0° 8 45'13	1.43630 AU
morning set	8593 May 03 02:47	7° 8 31'53					
max. Earth dist.	8593 May 09 06:24	17° 8 31'44	1.41778 AU	superior conj	8594 Apr 27 20:09	10° 8 58'27	-2°10'20
				minimum elong	8594 Apr 27 22:47	11° 8 09'24	2°10'24
superior conj	8593 May 16 21:22	0°Ⅱ29'46	-1°54'57	•	8594 May 09 00:09	$\Pi^{\circ}0$	
minimum elong	8593 May 17 03:06	0° Ⅱ 54'48	1°54'39	evening rise	8594 May 10 08:25	2° Ⅲ 20'45	
	8593 May 16 14:33	$\Pi^{\circ}0$		asc. node	8594 May 18 23:58	17° Ⅲ 12'57	
evening rise	8593 May 27 18:56	20° Ⅱ 07'40		evening max el	8594 May 27 13:31	29° Ⅱ 02'07	18°05'46
asc. node	8593 Jun 01 02:55	28° Ⅱ 01'43			8594 May 28 14:41	0°ಅ	
	8593 Jun 02 05:24	0°ಅ		retrograde	8594 Jun 03 00:28	2° © 22'51	
evening max el	8593 Jun 13 00:40	15° © 52'32	18°10'44	evening set	8594 Jun 05 17:39	1° 5 346'29	
retrograde	8593 Jun 19 23:08	19° © 22'50		_	8594 Jun 08 13:01	30° Ŗ Ⅱ	
evening set	8593 Jun 22 08:47	18° © 58'12		inferior conj	8594 Jun 12 02:22	26° Ⅲ 39′07	2°40'19
inferior conj	8593 Jun 29 08:55	14° © 10'37	1°46'52	minimum elong	8594 Jun 12 05:07	26° Ⅲ 32′01	2°39'31
minimum elong	8593 Jun 29 11:48	14° 5 04'08	1°45'46	min. Earth dist.	8594 Jun 15 01:50	23° Ⅱ 36'46	0.61997 AU
min. Earth dist.	8593 Jul 02 17:23	11° © 11'50	0.59750 AU	morning rise	8594 Jun 18 14:39	20° Ⅲ 34'43	
desc. node	8593 Jul 05 17:45	8° © 53'54		desc. node	8594 Jun 22 14:47	18° Ⅲ 34′05	
morning rise	8593 Jul 06 11:51	8° 5 25'25		direct	8594 Jun 25 08:11	18° Ⅲ 10′56	
direct	8593 Jul 12 22:19	6° 5 28'35		morning max el	8594 Jul 09 11:54	26° Ⅲ 12'19	27°55'51
morning max el	8593 Jul 27 06:42	14° 5 21'23	27°39'37		8594 Jul 13 00:38	0° ©	
	8593 Aug 08 20:39	$0^{\circ}\Omega$			8594 Aug 02 10:32	$0^{\circ}\Omega$	
	8593 Aug 26 00:04	0° m p		morning set	8594 Aug 12 04:36	18° Ω 33'38	
morning set	8593 Aug 28 03:21	4° Mp 24′09		asc. node	8594 Aug 14 23:21	24° Ω 20'30	
asc. node	8593 Aug 28 02:24	4° m) 19'07			8594 Aug 17 14:49	O° Mp	
max. Earth dist.	8593 Sep 03 11:09	18° m 04'35	1.31653 AU	max. Earth dist.	8594 Aug 17 18:18	0° Mp 18′56	1.32055 AU
superior conj	8593 Sep 04 06:45	19° m 53'01	1°07'20	superior conj	8594 Aug 19 16:25	4° m 30'16	0°46'17
minimum elong	8593 Sep 04 00:43	19° m 40'36	1°06'56	minimum elong	8594 Aug 19 14:31	4° Mp 19'51	0°45'49
minimum clong	8593 Sep 04 04:30 8593 Sep 08 20:38	0∘ ⊽	1 00 30	evening rise	8594 Aug 26 11:52	19° m) 23'13	0 43 49
evening rise	8593 Sep 08 20:38 8593 Sep 11 00:35	ა — 4° Ω 41'05		evening rise	8594 Aug 31 15:06	ე° <u>ი</u>	
e vennig rise	8593 Sep 24 07:35	0°M		desc. node	8594 Sep 18 13:34	o — 27° Ω 45'26	
desc. node	8593 Oct 01 16:28	10°M52'50		evening max el	8594 Sep 20 15:20	29° ♀ 52'27	24°25'18
evening max el	8593 Oct 09 01:38		25°53'55	evening max or	8594 Sep 20 18:29	0°M	21 23 10
retrograde	8593 Oct 22 23:51	26°ML19'01	20 03 00	retrograde	8594 Oct 04 09:36	6°M46'54	
evening set	8593 Oct 29 06:46	24°M45'42		evening set	8594 Oct 09 12:44	5°M48'37	
min. Earth dist.	8593 Nov 02 14:21		0.58297 AU	min. Earth dist.	8594 Oct 15 02:13		0.56453 AU
inferior conj	8593 Nov 05 16:57	19°M56'10		inferior conj	8594 Oct 17 14:46	1°M23'25	
minimum elong	8593 Nov 05 23:38	19°M44'05		minimum elong	8594 Oct 17 16:49	1°M20'11	
morning rise	8593 Nov 13 18:49	15°M32'31			8594 Oct 19 21:08	30° Ŗ Ω	
direct	8593 Nov 16 01:55	15°ML15'31		morning rise	8594 Oct 25 23:03	27° £ 21'32	
asc. node	8593 Nov 24 02:04	18°ML57'23		direct	8594 Oct 28 14:01	27° ⊆ 03'05	
morning max el	8593 Nov 24 11:23	19°ML19'20	18°39'27		8594 Nov 05 09:09	0°M	
	8593 Dec 02 09:29	0° × 7		morning max el	8594 Nov 07 07:27	1°MJ39'02	19°37'12
morning set	8593 Dec 10 15:52	15° ₹ 15'27		asc. node	8594 Nov 10 23:03	5°M43'49	.
	8593 Dec 18 07:06	0°ਰ		morning set	8594 Nov 24 18:56	29°M46'27	
	22,2 200 10 07.00				8594 Nov 24 21:37	0° √	
superior conj	8593 Dec 19 09:16	2° る 03'13	1°05'45				
minimum elong	8593 Dec 19 12:37	2° る 18'58	1°05'31	superior conj	8594 Dec 02 16:54	15° ∡ 741′11	1°25'28
max. Earth dist.	8593 Dec 26 15:58	15° る 15'32	1.39832 AU	minimum elong	8594 Dec 02 19:35	15° ∡ 754′25	1°25'23
desc. node	8593 Dec 28 15:25	18° ප් 41'10		max. Earth dist.	8594 Dec 08 22:00	27° ∡ ³34'13	1.37665 AU
evening rise	8593 Dec 30 18:01	22° る 16'04			8594 Dec 10 05:44	0°ರ	
	8594 Jan 04 10:54	0° ≈		evening rise	8594 Dec 12 15:23	4° ප 19'07	
	8594 Jan 25 00:11	0° ∀		desc. node	8594 Dec 15 12:25	9° ප 20'07	

	8594 Dec 28 11:35	0° ≈			8595 Dec 02 11:57	0°ರ	
evening max el	8595 Jan 17 05:20	25° ≈ 04'44	25°16'54		8595 Dec 22 20:08	0° ≈	
C	8595 Jan 23 05:35	0°)		evening max el	8595 Dec 30 18:26	8°≈50'12	26°21'46
retrograde	8595 Jan 29 06:47	2°) €02'52		retrograde	8596 Jan 12 14:36	16° ≈ 05'10	
	8595 Feb 03 15:34	30° R ≈		evening set	8596 Jan 18 22:03	13° ≈ 32'15	
evening set	8595 Feb 04 02:03	29° ≈ 38'43		min. Earth dist.	8596 Jan 23 01:47	9° ≈ 13'30	0.66584 AU
asc. node	8595 Feb 06 22:14	26° ≈ 43'32		inferior conj	8596 Jan 24 18:35	7° ≈ 09'31	-0°00'36
min. Earth dist.	8595 Feb 08 12:17	24° ≈ 45′20	0.67596 AU	minimum elong	8596 Jan 24 18:35	7° ≈ 09'30	0°00'26
inferior conj	8595 Feb 09 17:28	23° ≈ 10'43	0°54'43	transit middle	8596 Jan 24 18:35	7° ≈ 09'30	0°00'26
minimum elong	8595 Feb 09 16:10	23° ≈ 14'55	0°54'20	transit begin	8596 Jan 24 15:42	7° ≈ 18'17	
morning rise	8595 Feb 15 06:38	17° ≈ 15'59		transit end	8596 Jan 24 21:28	7° ≈ 00'43	
direct	8595 Feb 18 18:32	16° ≈ 05'44		asc. node	8596 Jan 24 19:19	7° ≈ 07'18	
morning max el	8595 Feb 25 20:30	20° ≈ 00′31	19°21'01	morning rise	8596 Jan 30 15:56	1° ≈ 24'44	
	8595 Mar 05 21:52	0° ∀		direct	8596 Feb 02 17:00	0°≈32'28	
greatest brilliancy	8595 Mar 10 19:00	7° ∺ 05'59	-0.7m	morning max el	8596 Feb 09 07:24	4°≈06'16	18°33'16
desc. node	8595 Mar 13 12:06	11° ∺ 10′30			8596 Feb 27 10:35	0° ∀	
morning set	8595 Mar 22 04:50	24°) €29'34		desc. node	8596 Feb 28 09:01	1° ∺ 28'35	
	8595 Mar 25 18:17	0° Υ		morning set	8596 Feb 29 23:30	4°) €00'39	
max. Earth dist.	8595 Apr 04 04:07	14° Ƴ 42'16	1.44919 AU			*****	
				superior conj	8596 Mar 17 01:21	29° H 16'10	
superior conj	8595 Apr 07 18:42	20° Y 25′21		minimum elong	8596 Mar 16 16:01	28°) (39'38	
minimum elong	8595 Apr 07 14:35	20° Y 09'00	2°08'50	max. Earth dist.	8596 Mar 16 22:22		1.45507 AU
	8595 Apr 13 17:41	0° 8			8596 Mar 17 12:33	0°Υ	
evening rise	8595 Apr 22 00:48	13° 8 38'17		evening rise	8596 Apr 01 17:35	23° Y 58′01	
,	8595 May 01 23:24	0°П		4 4 1 211	8596 Apr 05 12:37	0° 8	0.0
asc. node	8595 May 05 21:01	5°Ⅲ56'01 12°Ⅲ26'56	10010127	greatest brilliancy	8596 Apr 10 11:08	7° と 49'02 24° と 02'09	-0.8m
evening max el	8595 May 11 02:41	12° Д 26'36 15° Д 52'34	18°19'26	asc. node	8596 Apr 21 18:06 8596 Apr 23 13:34	24°802'09 26°801'02	18°51'01
retrograde evening set	8595 May 17 12:17 8595 May 20 12:43	15° П 02'55		evening max el retrograde	8596 Apr 30 06:37	20 8 01 02	18 3101
•	8595 May 26 10:06	9° П 37'30	3°10'29	•	8596 May 03 14:31	29 8 40'25	
inferior conj minimum elong	8595 May 26 11:46	9° П 32'43	3°10'29 3°10'06	evening set inferior conj	8596 May 09 04:18	28 8 40 23	3°22'11
min. Earth dist.	8595 May 28 19:42	6° ∏ 52'42	0.64070 AU	minimum elong	8596 May 09 04:38	22° 8 57'42	3°22'00
morning rise	8595 Jun 01 09:41	3° П 22'52	0.04070 AC	min. Earth dist.	8596 May 10 22:40	20° 8 46'25	0.65804 AU
direct	8595 Jun 08 02:48	0° П 41'49		morning rise	8596 May 14 18:09	16° 8 40'21	0.03004710
desc. node	8595 Jun 09 11:49	0° Д 47'58		direct	8596 May 21 05:00	13° 8 53'50	
morning max el	8595 Jun 21 21:12		27°34'53	desc. node	8596 May 26 08:49	15° 8 20'48	
morning man vi	8595 Jul 08 09:36	0°9	2, 3.05	morning max el	8596 Jun 03 07:50	21° 8 41'08	26°42'39
	8595 Jul 25 17:58	$0^{\circ}\Omega$			8596 Jun 10 13:35	0°II	
morning set	8595 Jul 26 22:01	2° Ω 17'33			8596 Jun 30 14:35	0°95	
max. Earth dist.	8595 Jul 31 18:39		1.32938 AU	morning set	8596 Jul 09 04:35	15°528'03	
asc. node	8595 Aug 01 20:18	14° Ω 25'53		max. Earth dist.	8596 Jul 13 08:54	23° © 36'00	1.34313 AU
	C				8596 Jul 16 12:48	$0^{\circ}\Omega$	
superior conj	8595 Aug 03 22:14	18° Ω 51'34	0°20'55				
minimum elong	8595 Aug 03 21:13	18° Ω 46′10	0°20'34	superior conj	8596 Jul 17 22:00	2° Ω 51′26	-0°08'04
	8595 Aug 09 02:07	0° m y		minimum elong	8596 Jul 17 22:27	2° Ω 53'48	0°08'10
evening rise	8595 Aug 10 23:20	4° Mp 02′08		behind sun begin	8596 Jul 17 17:26	2° Ω 27'46	
	8595 Aug 24 23:25	0∘ ⊽		behind sun end	8596 Jul 18 03:28	3° Ω 19'52	
evening max el	8595 Sep 02 02:41	10° ≏ 04'13	22°45'53	asc. node	8596 Jul 18 17:16	4° Ω 31'46	
desc. node	8595 Sep 05 10:41	12° ≏ 56′28		evening rise	8596 Jul 25 09:08	18° Ω 32'41	
retrograde	8595 Sep 15 07:11	16° ≏ 39'19			8596 Jul 31 01:37	0° m	
evening set	8595 Sep 18 22:01	16° ≙ 10'37		evening max el	8596 Aug 13 21:00	20° m 28'52	21°12'10
min. Earth dist.	8595 Sep 26 10:33		0.55145 AU	desc. node	8596 Aug 22 07:48	25° m 54'23	
inferior conj	8595 Sep 27 17:46	12° △ 03'37		retrograde	8596 Aug 25 20:11	26° Mp 24'43	
minimum elong	8595 Sep 27 12:13	12° ≏ 11'33	5°22'06	evening set	8596 Aug 28 05:06	26° Mp 11'37	
morning rise	8595 Oct 06 04:25	8° Ω 15'11		inferior conj	8596 Sep 06 10:34	22° m 14'38	
direct	8595 Oct 09 07:33	7° £ 52'36		minimum elong	8596 Sep 06 00:57	22° m 28'10	
morning max el	8595 Oct 20 14:36	13° £ 10′05	20°57'16	min. Earth dist.	8596 Sep 06 19:17	22° m 02'21	0.54669 AU
asc. node	8595 Oct 28 20:02	23° £ 28'17		morning rise	8596 Sep 14 21:23	18° m 21'18	
• ,	8595 Nov 01 17:20	0°M		direct	8596 Sep 18 15:46	17° Mp 50'45	22025142
morning set	8595 Nov 09 02:55	14°M29'20		morning max el	8596 Oct 01 09:52	23° m 55'04	22°35'40
·	0505 N 17 11 52	200m 50145	102/157	1	8596 Oct 06 21:02	0° <u>೧</u>	
superior conj	8595 Nov 16 11:53	29°M50'47	1°36'57	asc. node	8596 Oct 14 17:00	11° £ 57'23	
minimum elong	8595 Nov 16 13:21	29°M58'18	1°37'02	morning set	8596 Oct 23 13:41	29° £ 17'56	
max. Earth dist.	8595 Nov 16 13:41 8595 Nov 21 06:56	0° ₰ 9° ₰ 29'30	1.35657 AU		8596 Oct 23 21:39	0° M ₊	
evening rise	8595 Nov 25 07:15	17° × 10'40	1.5505 / AU	superior conj	8596 Oct 30 14:44	14°M21'43	1°41'08
desc. node	8595 Nov 25 07:15 8595 Dec 02 09:26	1/° × °10′40 29° × ⁷ 49′20		minimum elong	8596 Oct 30 14:44 8596 Oct 30 14:54		1°41'08 1°41'17
acse. Houc	0070 DCC 02 07.20	∠, ⊼ 47.40		mmmum ciong	0570 001 50 14.54	17 11644 33	1 711/

max. Earth dist.	8596 Nov 02 23:04	21°M23'39	1.33986 AU	superior conj	8597 Oct 14 22:43	29° ჲ 05'35	1°38'51
max. Latin dist.	8596 Nov 07 05:24	21 11 6 23 39	1.33980 AU	minimum elong	8597 Oct 14 22:44	29° ⊆ 00'16	1°38'55
evening rise	8596 Nov 07 03:24 8596 Nov 07 13:49	0° ∡ 741'17		minimum clong	8597 Oct 14 21:44 8597 Oct 15 08:42	0°M	1 38 33
desc. node	8596 Nov 18 06:29	20°×1117		max. Earth dist.	8597 Oct 16 23:36	3°M30'43	1.32743 AU
dese. Hode	8596 Nov 24 12:30	0°중		evening rise	8597 Oct 22 07:28	14°M41'24	1.52745710
evening max el	8596 Dec 12 07:31		27°08'09	evening rise	8597 Oct 30 07:34	0°×7	
retrograde	8596 Dec 25 16:38	22 3 25 4 3	27 000)	desc. node	8597 Nov 05 03:34	9° ×7 56'27	
evening set	8597 Jan 01 10:29	27° る 10'46		dese. Hode	8597 Nov 19 11:17	0°る	
min. Earth dist.	8597 Jan 05 08:37	23° る 25'49	0.65214 AU	evening max el	8597 Nov 24 19:25	⁰ ਠ 5° ਠ 40'16	27°29'01
inferior conj	8597 Jan 07 13:02	20° ප 59'16		retrograde	8597 Dec 08 12:07	12° る 59'00	27 27 01
minimum elong	8597 Jan 07 14:54	20°る54'02		evening set	8597 Dec 15 12:48	12 3 3760 10° る 27'50	
asc. node	8597 Jan 10 16:24	17°る42'19	1 02 10	min. Earth dist.	8597 Dec 19 06:38		0.63520 AU
morning rise	8597 Jan 13 20:40	15° る 26'45		inferior conj	8597 Dec 21 22:12	4° る 33'53	
direct	8597 Jan 16 12:44	14° る 48'43		minimum elong	8597 Dec 22 02:21	4° る 23'23	
morning max el	8597 Jan 22 22:59	18° る 12'38	18°02'10		8597 Dec 27 06:21	30°R. ₹	
	8597 Jan 31 18:04	0°≈		morning rise	8597 Dec 28 17:47	29° √ 16'41	
morning set	8597 Feb 09 23:35	14° ≈ 59'47		asc. node	8597 Dec 28 13:28	29° х 20′56	
desc. node	8597 Feb 14 05:55	21°≈59'12		direct	8597 Dec 31 03:09	28° х 48′56	
	8597 Feb 19 04:40	0° ∀			8598 Jan 03 22:40	0°る	
		* / (morning max el	8598 Jan 06 16:25		17°48'22
superior conj	8597 Feb 24 09:53	8° ₩ 19'14	-1°09'15	morning set	8598 Jan 23 02:28	27° る 17'24	
minimum elong	8597 Feb 24 02:00	7°){ 48'04	1°08'11	. 8	8598 Jan 24 16:12	0° ≈	
max. Earth dist.	8597 Feb 27 17:46	13°) (34'07	1.45356 AU	desc. node	8598 Feb 01 02:51	12° ≈ 38'31	
	8597 Mar 10 07:06	$0^{\circ}\Upsilon$					
evening rise	8597 Mar 12 13:53	3° Υ 31'40		superior conj	8598 Feb 04 13:19	18° ≈ 19'41	-0°24'57
greatest brilliancy	8597 Mar 26 02:58	24° Υ 11'25	-0.7m	minimum elong	8598 Feb 04 10:38	18° ≈ 08'39	0°24'24
8	8597 Mar 30 03:05	0°8		max. Earth dist.	8598 Feb 10 12:15		1.44491 AU
evening max el	8597 Apr 06 20:09	9° 8 39'00	19°39'18		8598 Feb 11 19:10	0°) €	
asc. node	8597 Apr 08 15:13	11° 8 19'10		evening rise	8598 Feb 20 01:11	12°) 51′53	
retrograde	8597 Apr 14 04:15	13° 8 50'53		Č	8598 Mar 03 09:48	0° Y	
evening set	8597 Apr 17 20:24	12° 8 32'06		evening max el	8598 Mar 20 21:24	23° Ƴ 18'59	20°41'53
inferior conj	8597 Apr 23 05:41	6° 8 35'51	3°19'18	asc. node	8598 Mar 26 12:20	27° Ƴ 33'28	
minimum elong	8597 Apr 23 04:51	6° 8 38'38	3°19'07	retrograde	8598 Mar 29 02:48	28° Ƴ 07'47	
min. Earth dist.	8597 Apr 24 09:10	5° 8 04'38	0.67119 AU	evening set	8598 Apr 02 04:15	26° Ƴ 33'42	
morning rise	8597 Apr 28 12:59	0° 8 17'44		inferior conj	8598 Apr 07 11:39	20° Ƴ 24'43	3°04'33
	8597 Apr 28 21:02	30° ₹ Υ		minimum elong	8598 Apr 07 09:57	20° Ƴ 30'33	3°04'12
direct	8597 May 04 13:25	27° Ƴ 37′01		min. Earth dist.	8598 Apr 08 01:15	19° Ƴ 37'55	0.67989 AU
	8597 May 11 00:25	$8^{\circ 0}$		morning rise	8598 Apr 12 15:25	14° Ƴ 09'12	
desc. node	8597 May 13 05:48	1° 8 40'43		direct	8598 Apr 18 02:59	11° Y 43'07	
morning max el	8597 May 16 17:36	4° 8 54'53	25°27'57	morning max el	8598 Apr 29 02:39	18° Ƴ 17'03	24°00'52
	8597 Jun 04 23:56	$\Pi^{\circ}0$		desc. node	8598 Apr 30 02:45	19° Ƴ 19'27	
morning set	8597 Jun 21 20:06	27° Ⅱ 53'13			8598 May 08 22:36	9° 8	
	8597 Jun 22 23:56	0 \circ \odot			8598 May 29 02:01	Π $^{\circ}0$	
max. Earth dist.	8597 Jun 25 12:15	4° 5 40'13	1.36144 AU	morning set	8598 Jun 03 15:27	9° Ⅱ 19'29	
				max. Earth dist.	8598 Jun 07 09:09	15° Ⅱ 51'59	1.38304 AU
superior conj	8597 Jul 01 12:56	16° © 22'10	-0°39'31				
minimum elong	8597 Jul 01 15:20	16° © 34'04	0°39'15	superior conj	8598 Jun 14 15:36	29° Ⅱ 15'10	
asc. node	8597 Jul 05 14:16	24°533'49		minimum elong	8598 Jun 14 20:04	29° ∏ 36′25	1°10'58
	8597 Jul 08 06:04	$0^{\circ}\Omega$			8598 Jun 15 01:01	0 \circ \odot	
evening rise	8597 Jul 09 15:02	2° Ω 48'10		asc. node	8598 Jun 22 11:18	14° © 28'11	
	8597 Jul 25 17:09	0°Щ		evening rise	8598 Jun 23 14:27	16°5541'46	
evening max el	8597 Jul 27 04:11	1°₩32'32	19°54'55		8598 Jun 30 14:58	0 \circ Ω	
retrograde	8597 Aug 06 10:48	6° Mp 36′52		evening max el	8598 Jul 10 00:07		18°58'10
evening set	8597 Aug 08 07:49	6° Mp 27′29		retrograde	8598 Jul 18 15:39	17° Ω 38′23	
desc. node	8597 Aug 09 04:55	6°Mp 16′54		evening set	8598 Jul 20 14:15	17° Ω 26'18	
inferior conj	8597 Aug 17 07:20	2° m 27'11		desc. node	8598 Jul 27 02:02	14° Ω 23'19	0000:01
minimum elong	8597 Aug 17 00:36	2° m 37'24		inferior conj	8598 Jul 28 20:39	13° Ω 10'19	
min. Earth dist.	8597 Aug 19 06:14		0.55157 AU	minimum elong	8598 Jul 28 19:17	13° Ω 12'43	0°32'12
	8597 Aug 21 11:16	30°R€		min. Earth dist.	8598 Jul 31 20:42	11° Ω 04'55	0.56516 AU
morning rise	8597 Aug 25 15:40	28° Ω 09'08		morning rise	8598 Aug 05 21:06	8° Ω 16'04	
direct	8597 Aug 30 04:38	27° Ω 23'56		direct	8598 Aug 11 06:08	7° Ω 07'43	0.50.501.1-
	8597 Sep 07 13:42	0° m/y	24021172	morning max el	8598 Aug 25 11:53	14° Ω 27'43	25°59'48
morning max el	8597 Sep 12 22:30	4° Mp 11'02	24°21'52	•	8598 Sep 06 21:06	0° M)	
	8597 Oct 01 01:14	0∘ ⊽		asc. node	8598 Sep 18 10:55	20° m/27'29	
asc. node	8597 Oct 01 13:58	1° Ω 00'02		morning set	8598 Sep 22 12:31	28° m 52'05	
morning set	8597 Oct 08 01:27	14° ≏ 07'10			8598 Sep 23 01:14	0∘ ರ	

gunariar agni	8598 Sep 29 09:33	13° ≏ 55'13	1°30'45	minimum elong	8599 Sep 13 19:10	28° m 32'41	1°17'01
superior conj minimum elong	8598 Sep 29 07:46	13° £ 3515	1°30'43 1°30'38	max. Earth dist.	8599 Sep 13 16:40	28° Mp 18'48	1.31631 AU
max. Earth dist.	8598 Sep 30 06:37	15° £ 51'34	1.31958 AU	max. Earth dist.	8599 Sep 14 10:53	ე∘ <u>ი</u>	1.51051 AU
evening rise	8598 Oct 06 09:05	29° £ 02'05	1.31936 AU	evening rise	8599 Sep 20 16:08	0 = 13° £ 36'21	
evening rise	8598 Oct 06 09:03 8598 Oct 06 20:12	0°M		evening rise	8599 Sep 28 21:28	0°M	
desc. node	8598 Oct 23 00:41	29°MJ18'14		desc. node	8599 Oct 09 21:48	17°M56'43	
desc. node	8598 Oct 23 11:37	0° × 7		evening max el	8599 Oct 09 21:48 8599 Oct 20 05:07	0° ₹ 10'57	26°33'53
evening max el	8598 Nov 07 03:35	18° ∡ 119'17	27018120	evening max er	8599 Oct 20 00:30	0°×1037	20 33 33
retrograde	8598 Nov 20 23:53	25° × ⁷ 31'59	27 102)	retrograde	8599 Nov 03 03:02	7° √ 17'53	
evening set	8598 Nov 28 01:33	23°×15'00		evening set	8599 Nov 09 20:26	5°×725'35	
min. Earth dist.	8598 Dec 01 18:07	20°×726'34	0.61570 AU	min. Earth dist.	8599 Nov 13 18:44	2°×750'26	0.59484 AU
inferior conj	8598 Dec 04 18:52	17°× 7 44'12		inferior conj	8599 Nov 16 23:32	0° ₹ 20'56	
minimum elong	8598 Dec 05 01:15	17° × ⁷ 29'56		minimum elong	8599 Nov 17 06:56	0° ⊀ 06'28	
morning rise	8598 Dec 12 03:12	12° × ⁷ 45'47	3 17 .7	mmmam trong	8599 Nov 17 10:15	30°RM	. 20 .0
direct	8598 Dec 14 08:40	12° × ⁷ 24'44		morning rise	8599 Nov 24 19:50	25°M44'29	
asc. node	8598 Dec 15 10:31	12° × ² 29'48		direct	8599 Nov 27 01:01	25°M26'54	
morning max el	8598 Dec 21 08:26	15° ₹ 56'32	17°52'41	asc. node	8599 Dec 02 07:31	27°M12'25	
morning man er	8598 Dec 31 03:56	0°ਰ	1, 02	morning max el	8599 Dec 04 19:35	29°M15'59	18°16'25
morning set	8599 Jan 06 01:27	00 10° る 31'39		morning max er	8599 Dec 05 12:57	0° √	10 10 23
morning sec	000000000000000000000000000000000000000	10 (312)		morning set	8599 Dec 20 14:37	24° × ⁷ 24'58	
superior conj	8599 Jan 16 18:13	29° ට 33'13	0°16'32	morning sec	8599 Dec 23 13:15	0°る	
minimum elong	8599 Jan 16 19:41	29° ට 39'32	0°16'30		0077 200 25 15.10	, ,	
minimum crong	8599 Jan 17 00:27	0°≈	0 1030	superior conj	8599 Dec 29 22:42	11° る 53'51	0°50'21
desc. node	8599 Jan 18 23:49	3°≈22'16		minimum elong	8599 Dec 30 01:56	12° る 08'30	0°50'06
max. Earth dist.	8599 Jan 24 03:23	11°≈56'50	1.43001 AU	desc. node	8600 Jan 05 20:48	24° る 06'58	0 20 00
evening rise	8599 Jan 30 18:43	22° ≈ 34'51		max. Earth dist.	8600 Jan 06 13:15	25° る 17'09	1.41058 AU
evening rise	8599 Feb 04 13:46	0° ∀		man. Darun ulot.	8600 Jan 09 08:34	0°≈	1
	8599 Feb 25 15:36	0° Υ		evening rise	8600 Jan 11 05:57	3°≈06'53	
evening max el	8599 Mar 03 17:15	6° Y ′59'52	21°55'19	evening rise	8600 Jan 28 21:29	0° ∀	
retrograde	8599 Mar 13 00:24	12° Υ 30'13		evening max el	8600 Feb 14 08:53	20°) 42'38	23°14'46
asc. node	8599 Mar 13 09:28	12° Y 29'30		retrograde	8600 Feb 24 19:35	26°) 53'39	
evening set	8599 Mar 17 12:21	10° Y 40'47		asc. node	8600 Feb 28 06:34	25°) 54'48	
inferior conj	8599 Mar 22 19:56	4° Υ 21'31	2°39'38	evening set	8600 Mar 01 19:05	24°) (49'30	
minimum elong	8599 Mar 22 17:45	4° Υ 29'05	2°39'06	min. Earth dist.	8600 Mar 06 17:29	19° ₩ 01'36	0.68404 AU
min. Earth dist.	8599 Mar 22 20:44	4°Υ18'43	0.68410 AU	inferior conj	8600 Mar 07 04:36	18° ¥ 23'16	2°05'35
	8599 Mar 26 03:44	30° R ₩		minimum elong	8600 Mar 07 02:23	18°) € 30'54	
morning rise	8599 Mar 27 23:01	28°) 10'01		morning rise	8600 Mar 12 09:38	12°) 16′58	
direct	8599 Apr 01 20:36	26°) €04'04		direct	8600 Mar 16 17:21	10°) 33'17	
	8599 Apr 09 16:15	0°Υ		morning max el	8600 Mar 25 05:09	15° ¥ 26'48	21°07'41
morning max el	8599 Apr 11 13:23	1° Υ 46'51	22°31'21	desc. node	8600 Apr 03 20:36	27°) 11'38	
desc. node	8599 Apr 16 23:41	7° Ƴ 54'58			8600 Apr 05 21:19	0°Υ	
	8599 May 02 21:19	0°8		morning set	8600 Apr 25 00:10	28° Ƴ 34'27	
morning set	8599 May 15 09:20	19° 8 33'46			8600 Apr 25 21:55	0°8	
max. Earth dist.	8599 May 20 06:43	27° 8 42'29	1.40554 AU	max. Earth dist.	8600 May 02 09:44	_	1.42620 AU
	8599 May 21 14:58	0°II			.,	. •	
	,			superior conj	8600 May 09 14:25	22° 8 25'39	-2°03'09
superior conj	8599 May 28 01:40	11° Ⅱ 20'01	-1°40'54	minimum elong	8600 May 09 19:21	22° 8 46'44	
minimum elong	8599 May 28 07:32	11° Ⅱ 46′25		S	8600 May 13 23:29	0° Ⅱ	
evening rise	8599 Jun 07 04:05	0°904'54		evening rise	8600 May 21 03:45	12° Ⅱ 46'45	
C	8599 Jun 07 03:02	0°©		asc. node	8600 May 27 05:23	23° ∏ 34'48	
asc. node	8599 Jun 09 08:21	4°ഇ10'26			8600 May 31 01:41	0ಂಣ	
evening max el	8599 Jun 23 05:37	25°549'20	18°22'14	evening max el	8600 Jun 06 16:47	8°9346'16	18°06'15
retrograde	8599 Jun 30 15:52	29° © 32'31		retrograde	8600 Jun 13 09:14	12° © 11'02	
evening set	8599 Jul 02 21:02	29° © 13'30		evening set	8600 Jun 15 21:58	11°©41'50	
inferior conj	8599 Jul 10 07:40	24°537'21	1°03'49	inferior conj	8600 Jun 22 15:04	6°5945'39	2°12'41
minimum elong	8599 Jul 10 09:45	24°533'03	1°02'53	minimum elong	8600 Jun 22 18:05	6° © 38'27	2°11'40
min. Earth dist.	8599 Jul 13 16:50	21° © 51'52	0.58474 AU	min. Earth dist.	8600 Jun 25 20:36	3°542'15	0.60708 AU
desc. node	8599 Jul 13 23:06	21°539'44		morning rise	8600 Jun 29 11:35	0°950'40	
morning rise	8599 Jul 17 19:07	19° © 07'55		desc. node	8600 Jun 30 20:09	0° © 03'00	
direct	8599 Jul 23 21:45	17° © 29'28			8600 Jun 30 22:29	30°R Ⅱ	
morning max el	8599 Aug 07 07:09	25° © 13'03	27°13'10	direct	8600 Jul 06 01:50	28° ∏ 41'24	
<i>5</i>	8599 Aug 11 17:24	0° Ω		•	8600 Jul 11 11:48	0°9	
	8599 Aug 31 04:02	o°m)		morning max el	8600 Jul 20 09:10	6° © 39'45	27°51'17
asc. node	8599 Sep 05 07:52	10° m) 12'51		<i>5</i>	8600 Aug 06 23:47	0° U	,
morning set	8599 Sep 06 21:17	13° m) 28'09		morning set	8600 Aug 22 01:51	27° Ω 48'58	
<i>3</i>	·r	4		asc. node	8600 Aug 23 04:48	0° mp 09'39	
superior conj	8599 Sep 13 21:23	28° Mp 44'58	1°17'20		8600 Aug 23 02:58	0° m y	
r	r		. = -			· 'X	

max. Earth dist.	8600 Aug 28 01:52	10° Mp 40'18	1.31763 AU	superior conj	8601 Aug 13 16:39	27° Ω 59'31	0°36'02
				minimum elong	8601 Aug 13 15:04	27° Ω 50'53	0°35'35
superior conj	8600 Aug 29 08:21	13°Mp28'10	0°58'58		8601 Aug 14 14:47	0° m	
minimum elong	8600 Aug 29 06:11	13° Mp 16'15	0°58'30	evening rise	8601 Aug 20 13:59	12° m 58'06	
evening rise	8600 Sep 05 02:24	28° m 16'52		C	8601 Aug 29 02:39	0∘ ত	
	8600 Sep 05 21:44	0∘ ⊽		evening max el	8601 Sep 13 10:21	21° ₾ 33'39	23°43'17
	8600 Sep 22 14:10	0°M		desc. node	8601 Sep 13 16:01	21° ⊆ 47'15	23 13 17
desc. node	8600 Sep 26 18:54	5°M34'12		retrograde	8601 Sep 27 00:48	28° £ 21′50	
	8600 Oct 01 22:33	11°M11'29	25010121	•	•		
evening max el			23 1831	evening set	8601 Oct 01 12:30	27° £ 37'48	0.55010.411
retrograde	8600 Oct 15 20:08	18°M12'25		min. Earth dist.	8601 Oct 07 20:39	24° £ 35'29	0.55810 AU
evening set	8600 Oct 21 16:41	16°M53'45		inferior conj	8601 Oct 09 22:17	23° £ 21′06	
min. Earth dist.	8600 Oct 26 10:26	14°M14'16		minimum elong	8601 Oct 09 21:11	23° ≏ 22'46	5°36'02
inferior conj	8600 Oct 29 09:00	12° M .14'47	-5°19'33	morning rise	8601 Oct 18 07:55	19° ≏ 26'09	
minimum elong	8600 Oct 29 14:18	12°M05'47	5°18'43	direct	8601 Oct 21 03:28	19° ≏ 06'20	
morning rise	8600 Nov 06 14:14	8°M01'08		morning max el	8601 Oct 31 12:54	23° ≏ 59'37	20°08'37
direct	8600 Nov 08 23:51	7° M 44'00			8601 Nov 05 16:44	0° M.	
morning max el	8600 Nov 17 22:12	12°M00'20	19°01'19	asc. node	8601 Nov 06 01:28	0°M30'25	
asc. node	8600 Nov 19 04:29	13°M17'43		morning set	8601 Nov 18 18:59	23°M20'55	
	8600 Nov 30 01:09	0° ∡ 7			8601 Nov 22 00:47	0° ∡ 7	
morning set	8600 Dec 04 13:33	8° × ⁷ 44'30			00011101 22 00.17	0	
morning set	0000 DCC 04 13.33	0 × 44 30		superior conj	8601 Nov 26 10:45	8° × 759'38	1°31'17
	0.000 D 12 21 50	250 707121	1015110				
superior conj	8600 Dec 12 21:50	25° × 07'21	1°15'10	minimum elong	8601 Nov 26 12:57	9° √ 10'41	1°31'17
minimum elong	8600 Dec 13 01:01	25° ∡ 22'35	1°14'59	max. Earth dist.	8601 Dec 02 01:30	19° ∡ 58'41 −	1.36776 AU
	8600 Dec 15 11:37	0°ಕ		evening rise	8601 Dec 05 20:48	27° ∡ 02'15	
max. Earth dist.	8600 Dec 19 19:05	7° る 53'49	1.38897 AU		8601 Dec 07 12:24	0°ಕ	
evening rise	8600 Dec 23 15:06	14° る 37'28		desc. node	8601 Dec 10 14:48	5° る 24'17	
desc. node	8600 Dec 23 17:48	14° る 49'03			8601 Dec 26 10:48	0° ≈	
	8601 Jan 02 00:22	0° ≈		evening max el	8602 Jan 10 11:36	18° ≈ 17'00	25°46'29
	8601 Jan 23 18:08	0° ∀		•			
evening max el	8601 Jan 27 22:24	4°) 29'05	24°34'11				
retrograde	8601 Feb 08 11:09	11°) 13'33	2.3.11				
evening set	8601 Feb 13 22:58	8° \ 56'10					
•		7°) (48'53					
asc. node	8601 Feb 15 03:38		0.67002.411				
min. Earth dist.	8601 Feb 18 13:16	3°) (42′39	0.67993 AU				
inferior conj	8601 Feb 19 11:51	2° ∺ 27'16	1°22'59				
minimum elong	8601 Feb 19 10:05	2°) 33′12	1°22'27				
	8601 Feb 21 09:10	30°R ≈					
morning rise	8601 Feb 24 21:21	26° ≈ 27'36					
direct	8601 Feb 28 16:04	25° ≈ 05'43					
morning max el	8601 Mar 08 04:24	29° ≈ 18'50	19°55'45				
	8601 Mar 08 20:36	0° ∀					
desc. node	8601 Mar 21 17:31	16° ¥ 58′29					
	8601 Mar 30 10:08	0° Υ					
morning set	8601 Apr 03 22:29	6° Υ 54'57					
max. Earth dist.	8601 Apr 14 19:50		1.44249 AU				
max. Lattii dist.		0° 8	1.4424) AU				
	8601 Apr 18 14:16	0.0					
superior con-	8601 Apr 20 02:41	2° 8 27'34	2012/07				
superior conj	8601 Apr 20 02:41						
minimum elong	8601 Apr 20 02:45	2° 8 27'51	Z-1Z13				
evening rise	8601 May 03 08:51	24° 8 37'35					
	8601 May 06 12:14	0° Π					
asc. node	8601 May 14 02:27	12° Ⅱ 35'32					
evening max el	8601 May 21 06:13	22° Ⅱ 03'58	18°09'20				
retrograde	8601 May 27 15:29	25° Ⅱ 25′03					
evening set	8601 May 30 11:42	24° Ⅱ 43'18					
inferior conj	8601 Jun 05 15:09	19° Ⅱ 28′23	2°55'37				
minimum elong	8601 Jun 05 17:31	19° Ⅲ 22'00	2°55'00				
min. Earth dist.	8601 Jun 08 09:14	16° Ⅲ 30'54					
morning rise	8601 Jun 11 21:43	13° Ⅱ 18'36	3.02711110				
desc. node	8601 Jun 17 17:11	10° I I48'36					
direct	8601 Jun 18 16:02	10° Ⅱ 45'42	27051101				
morning max el	8601 Jul 02 16:25	18° Ⅱ 48'43	27°51'04				
	8601 Jul 12 03:03	0°©					
	8601 Jul 30 21:29	0 $^{\circ}\Omega$					
morning set	8601 Aug 06 00:05	11° Ω 48'32					
asc. node	8601 Aug 10 01:46	20° Ω 13'17					
max. Earth dist.	8601 Aug 11 06:21	22° Ω 45'11	1.32371 AU				