superior conj	16100 Jan 23 20:23	19° ≈ 20′07	1°36'40	asc. node	16100 Dec 24 04:32	2° る 14'23	
minimum elong	16100 Jan 23 21:07	19° ≈ 24'12	1°37'11	morning set	16101 Jan 01 12:26	18° る 58'32	
max. Earth dist.	16100 Jan 25 08:02	22° ≈ 37'14	1.31655 AU		16101 Jan 06 12:47	0° ≈	
	16100 Jan 28 17:32	0° ₩					
evening rise	16100 Jan 31 00:26	4°) 49'15		superior conj	16101 Jan 08 07:35	3°≈59'32	1°37'52
desc. node	16100 Feb 07 17:58	19° ¥ 56′20		minimum elong	16101 Jan 08 07:16	3° ≈ 57'44	1°38'31
dese. node	16100 Feb 13 13:01	0°Υ		max. Earth dist.	16101 Jan 08 14:58	4°≈40'50	1.31080 AU
evening max el	16100 Mar 04 15:37	25°Υ16'25	27°34'52	evening rise	16101 Jan 15 03:53	19° ≈ 03'01	1.51000110
evening max er	16100 Mar 10 12:38	0°8	27 3432	evening rise	16101 Jan 20 12:29	0° ∀	
retrograde	16100 Mar 18 14:53	2° 8 44'24		desc. node	16101 Jan 25 14:42	9° ₩ 27'55	
evening set	16100 Mar 25 10:24	0° 8 29'56		desc. node	16101 Jan 23 14:42 16101 Feb 08 04:49	9 Λ 2733	
evening set		0 O2930 30°RΥ		avanina may al		0 ¶ 7° Υ 22'11	27°07'14
i. Ed- di-4	16100 Mar 26 03:55	30 K 1 27° Υ 31'15	0.62002 ATT	evening max el	16101 Feb 14 20:48	14° Υ 39'56	2/ 0/14
min. Earth dist.	16100 Mar 29 04:37	24° Υ 39'30	0.62083 AU	retrograde	16101 Feb 28 21:47	14 γ 39 30 12° γ 45'43	
inferior conj	16100 Apr 01 05:42			evening set	16101 Mar 07 12:55		0.50000 177
minimum elong	16100 Apr 01 07:40	24° Y °34′52	0°56'22	min. Earth dist.	16101 Mar 11 11:10	10° Y 03′19	0.59829 AU
asc. node	16100 Apr 04 04:42	22° Y ′01'43		inferior conj	16101 Mar 14 16:29	7° Y 24'27	
morning rise	16100 Apr 08 08:03	19° Ƴ 35'36		minimum elong	16101 Mar 14 21:51	7° Y 13′22	2°19'54
direct	16100 Apr 10 13:53	19° Ƴ 12'54		morning rise	16101 Mar 22 10:20	2° Y 40′03	
morning max el	16100 Apr 17 06:45	22° Ƴ 35'52	17°47'31	asc. node	16101 Mar 22 02:03	2° Y 45'48	
	16100 Apr 23 02:14	$_{0\circ}$ 8		direct	16101 Mar 24 10:46	2° Y 24'17	
morning set	16100 May 03 03:40	17° 8 01'20		morning max el	16101 Mar 31 21:07	6° Y 06'31	18°04'03
desc. node	16100 May 06 19:21	23° 8 27'42		morning set	16101 Apr 16 10:59	0° 8 40'04	
	16100 May 10 13:35	Π \circ 0			16101 Apr 16 02:20	0°B	
				desc. node	16101 Apr 23 16:07	13° 8 56'23	
superior conj	16100 May 14 17:17	7° Ⅱ 04'12	-1°01'17				
minimum elong	16100 May 14 11:38	6° Ⅱ 40′26	1°01'07	superior conj	16101 Apr 26 12:11	19° 8 00'57	-0°23'16
max. Earth dist.	16100 May 21 14:14	18° Ⅱ 22'43	1.43954 AU	minimum elong	16101 Apr 26 10:14	18° 8 52'18	0°23'28
	16100 May 28 22:45	0 \circ \odot		Č	16101 May 02 20:45	Π°	
evening rise	16100 May 29 04:07	0°9520'46		max. Earth dist.	16101 May 04 02:11	2° Ⅱ 03'19	1.42091 AU
3	16100 Jun 18 07:55	0°N		evening rise	16101 May 09 08:56	10° Ⅱ 41'11	
evening max el	16100 Jun 28 22:23	12° Ω 58'14	21°16'01	evening rise	16101 May 21 23:13	0ಂತ	
asc. node	16100 Jul 01 03:08	14° Ω 59'29	21 10 01	evening max el	16101 Jun 11 15:39	26°952'31	22°34'13
retrograde	16100 Jul 07 15:59	18° Ω 01'42		evening max or	16101 Jun 15 04:21	0°Ω	22 3 1 13
evening set	16100 Jul 12 02:10	16° Ω 13'49		asc. node	16101 Jun 18 00:05	1° Ω 46'13	
inferior conj	16100 Jul 17 07:38	10°Ω01'35	3°08'33	retrograde	16101 Jun 21 13:14	2°Ω40'23	
minimum elong	16100 Jul 17 07:37	10° Ω 01'37	3°07'57	evening set	16101 Jun 26 10:56	0° Ω 36'26	
min. Earth dist.	16100 Jul 17 15:49	9° Ω 33'03	0.68924 AU	evening set	16101 Jun 27 02:53	30°Rூ	
morning rise	16100 Jul 22 12:49	3° Ω 41'56	0.00724 AU	inferior conj	16101 Jul 01 17:35	24°915'16	3°03'00
•		1° Ω 30'07		minimum elong		24° © 18'29	3°02'13
direct desc. node	16100 Jul 27 14:50	3° Ω 58'38		Č	16101 Jul 01 16:40	24°932'24	0.69149 AU
	16100 Aug 02 18:16	7° Ω 34'54	2200002	min. Earth dist.	16101 Jul 01 12:40		0.09149 AU
morning max el	16100 Aug 06 20:34		23 00 03	morning rise	16101 Jul 06 22:14	18°902'56	
. ,	16100 Aug 24 08:29	0° M)		direct	16101 Jul 11 12:03	16°909'04	21022150
morning set	16100 Sep 10 01:54	25° m 53'31		morning max el	16101 Jul 20 11:13	21°521'42	21°33'59
To all III	16100 Sep 12 13:03	0° ⊽	1 40147 411	desc. node	16101 Jul 20 15:34	21°932'35	
max. Earth dist.	16100 Sep 14 11:14	3° ≙ 15'57	1.40147 AU		16101 Jul 27 20:13	0° N	
					16101 Aug 17 13:54	0° m/y	
superior conj	16100 Sep 22 07:48	17° 2 09'56		morning set	16101 Aug 21 05:44	5° Mp 43'17	
minimum elong	16100 Sep 22 11:02	17° ≏ 24'41	0°41'13	max. Earth dist.	16101 Aug 27 15:28	16° Mp 02′04	1.42406 AU
asc. node	16100 Sep 27 04:15	26° £ 11'41					
	16100 Sep 29 04:20	0°M₊		superior conj	16101 Sep 04 04:40	28° Mp 44'52	-1°18'32
evening rise	16100 Oct 01 23:28	5°M20'46		minimum elong	16101 Sep 04 11:05	29° Mp 12'35	1°17'46
	16100 Oct 16 20:00	0° ⊼ ¹			16101 Sep 04 22:02	0∘ ರ	
evening max el	16100 Oct 17 22:40	1° ≯ 11'00	18°31'15	asc. node	16101 Sep 14 00:55	16° ≙ 15'33	
retrograde	16100 Oct 25 21:05	5° ∡ 12'19		evening rise	16101 Sep 15 07:06	18° ≏ 32'53	
evening set	16100 Oct 27 20:06	4° ⋠ 758'22			16101 Sep 21 16:20	0° M	
desc. node	16100 Oct 29 15:20	4° ∡ °22'34		evening max el	16101 Oct 01 08:37	13°M56'36	18°06'48
inferior conj	16100 Nov 04 17:13	0° ≯ ¹28'00	-1°57'24	retrograde	16101 Oct 08 08:14	17°M31'29	
minimum elong	16100 Nov 04 12:34	0° ∡ ³37′02	1°54'55	evening set	16101 Oct 10 13:31	17°ML10'10	
-	16100 Nov 05 07:37	30°RML		desc. node	16101 Oct 16 12:38	13°M21'31	
min. Earth dist.	16100 Nov 07 21:53	28°ML00'23	0.57653 AU	inferior conj	16101 Oct 17 17:05	12°M18'24	-0°22'37
morning rise	16100 Nov 12 01:38	25°M20'57		minimum elong	16101 Oct 17 16:19		0°21'52
direct	16100 Nov 18 06:42	23°M43'32		min. Earth dist.	16101 Oct 20 22:14	9°M25'45	0.59864 AU
	16100 Dec 01 05:09	0°×7		morning rise	16101 Oct 24 15:52	6°M38'12	
morning max el	16100 Dec 02 12:39	1° ∡ 13'31	26°59'02	direct	16101 Oct 31 05:57	4°M35'36	
0	16100 Dec 22 23:14	0°ਰ		morning max el	16101 Nov 14 12:09	12°M22'10	27°48'15
	20 22 25.17					110-22 10	0.10

	16101 Nov 28 11:03	0° ∡ 7		morning max el	16102 Oct 27 18:30	24° ≏ 19'58	27°58'04
asc. node	16101 Dec 11 01:35	21° ∡ ¹41'37		5 8	16102 Nov 01 22:08	0°M₊	
	16101 Dec 15 05:17	ರ°ರ			16102 Nov 21 20:25	0° ∡ ¹	
morning set	16101 Dec 16 18:03	3° る 12'00		asc. node	16102 Nov 27 22:34	11° ∡ ²27'59	
max. Earth dist.	16101 Dec 22 22:26	16° ප් 41'18	1.31047 AU	morning set	16102 Nov 30 17:39	17° ∡ °05'43	
		_		max. Earth dist.	16102 Dec 06 02:37	28° ∡ °29'54	1.31569 AU
superior conj	16101 Dec 23 18:52	18° る 35'25			16102 Dec 06 19:06	0°₹	
minimum elong	16101 Dec 23 17:34	18°る28'07	1°33'41		16102 D 00 04 21	2070252	1022110
	16101 Dec 28 21:52	0°≈ 3°≈25'43		superior conj	16102 Dec 08 04:21	3°る02'52 2°る51'33	1°22'10
evening rise desc. node	16101 Dec 30 11:39 16102 Jan 12 11:30	3°≈25°43 28°≈26'40		minimum elong evening rise	16102 Dec 08 02:18 16102 Dec 14 21:51	17° る 52'55	1-22-41
desc. node	16102 Jan 13 10:17	20 ≈ 20 40		evening rise	16102 Dec 14 21:31 16102 Dec 20 18:05	0°≈	
evening max el	16102 Jan 27 18:25	18° ¥ 35'24	26°04'52	desc. node	16102 Dec 30 08:22	16° ≈ 40'44	
retrograde	16102 Feb 10 17:29	25°) 40'02	20 0.02	evening max el	16103 Jan 09 07:36	28° ≈ 58'42	24°34'29
evening set	16102 Feb 16 20:45	24°) €11'22		<i>y</i>	16103 Jan 10 10:14	0°) €	
min. Earth dist.	16102 Feb 21 07:34	21°) 33′21	0.57658 AU	retrograde	16103 Jan 23 00:14	5°) 48′29	
inferior conj	16102 Feb 24 08:09	19° ¥ 24′25	-3°52'46	evening set	16103 Jan 28 06:37	4°) 47′25	
minimum elong	16102 Feb 24 16:49	19° ∺ 09'00	3°49'43	min. Earth dist.	16103 Feb 02 19:28	1° ¥ 57′29	0.55846 AU
morning rise	16102 Mar 04 16:02	15° 米 01'30		inferior conj	16103 Feb 05 02:34	0°) 32′03	
direct	16102 Mar 06 15:21	14°) 48′56		minimum elong	16103 Feb 05 11:26	0° ∺ 18'17	5°11'19
asc. node	16102 Mar 08 23:24	15°) €07'27			16103 Feb 05 23:18	30° R ≈	
morning max el	16102 Mar 15 04:28	19°) €01'17	18°41'02	morning rise	16103 Feb 13 18:25	26°≈29'49	
	16102 Mar 23 05:37	0°Υ 1.40 0 650142		direct	16103 Feb 16 00:15	26°≈16'19	
morning set	16102 Mar 31 06:23	14° Y 50'42 0° と		asc. node	16103 Feb 23 20:46 16103 Feb 24 18:47	29°≈15'23 0°¥	
	16102 Apr 08 03:17	0.0		morning max el	16103 Feb 24 18:47 16103 Feb 26 00:33	0° X 1° ¥ 08'04	19°40'23
superior conj	16102 Apr 09 03:02	1° 8 51'29	0°11'50	morning set	16103 Mar 15 09:48	29° H 20'30	19 40 23
minimum elong	16102 Apr 09 03:49	1° 8 55'08	0°11'21	morning set	16103 Mar 15 17:38	0° Υ	
behind sun begin	16102 Apr 08 22:54	1° 8 32'09	V 1121		10103 1/141 13 17.50	V 1	
behind sun end	16102 Apr 09 08:43	2° 8 18'04		superior conj	16103 Mar 23 09:19	15° Y ′22'39	0°41'37
desc. node	16102 Apr 10 12:52	4° 8 28'43		minimum elong	16103 Mar 23 11:31	15° Ƴ 33'28	0°41'08
max. Earth dist.	16102 Apr 16 10:21	15° 8 04'22	1.39889 AU	desc. node	16103 Mar 28 09:32	25° Y ′00'21	
evening rise	16102 Apr 20 10:50	21° 8 57'31		max. Earth dist.	16103 Mar 29 16:39	27° Y ′24'59	1.37589 AU
	16102 Apr 25 08:24	Π $^{\circ}0$			16103 Mar 31 02:30	0° 8	
	16102 May 15 22:52	0 \circ \mathfrak{s}		evening rise	16103 Apr 02 09:07	4° 8 04'51	
evening max el	16102 May 25 06:03	10° 5 48'03	23°55'44		16103 Apr 18 09:10	Π °0	
asc. node	16102 Jun 04 21:05	17° © 16'18		evening max el	16103 May 07 19:25	24° ∏ 42'35	25°13'59
retrograde	16102 Jun 05 07:36	17°5517'07			16103 May 14 09:06	0°95	
evening set	16102 Jun 10 17:00	14°959'28	0.60005.441	retrograde	16103 May 19 22:01	1°9544'35	
min. Earth dist.	16102 Jun 15 09:02	9°532'59	0.68885 AU	asc. node	16103 May 22 18:11	1°©11'11	
inferior conj	16102 Jun 16 03:00 16102 Jun 16 01:19	8°931'47 8°937'30	2°47'02 2°46'00	ovening set	16103 May 24 20:54 16103 May 25 18:43	30°RⅡ 29°Ⅱ16'58	
minimum elong morning rise	16102 Jun 16 01:19 16102 Jun 21 09:40	2°\$28'13	2 40 00	evening set min. Earth dist.	16103 May 30 02:52	29 II 10 38 24° II 27'29	0.68136 AU
direct	16102 Jun 25 11:32	0°954'01		inferior conj	16103 May 31 09:54	22° II 46'15	2°20'21
morning max el	16102 Jul 03 07:58	5° © 19'41	20°17'36	minimum elong	16103 May 31 07:46	22° I 53'13	2°19'05
desc. node	16102 Jul 07 12:47	10°9501'44		morning rise	16103 Jun 05 21:13	16° Ⅱ 52'35	
	16102 Jul 21 20:14	$0^{\circ}\Omega$		direct	16103 Jun 09 11:43	15° Ⅲ 38′02	
morning set	16102 Jul 31 14:31	14° Ω 46'34		morning max el	16103 Jun 16 12:00	19° Ⅲ 27'44	19°15'01
max. Earth dist.	16102 Aug 10 02:49	29° Ω 40′20	1.44249 AU	desc. node	16103 Jun 24 09:55	29° Ⅱ 11'01	
	16102 Aug 10 07:45	0° m			16103 Jun 24 23:52	0 \circ \mathfrak{s}	
				greatest brilliancy	16103 Jun 29 06:05	6° © 10'54	-0.7m
superior conj	16102 Aug 16 02:30	9°Mp21'26		morning set	16103 Jul 10 19:32	23° © 44'45	
minimum elong	16102 Aug 16 10:21	9° m 53'39	1°50'15		16103 Jul 14 20:52	$0^{\circ}\Omega$	
	16102 Aug 28 07:58	0∘ ʊ		max. Earth dist.	16103 Jul 23 19:22	13° &\ 54'14	1.45482 AU
evening rise	16102 Aug 28 22:19	1° Ω 01'58			16102 1 1 27 01 52	100 002112	2010140
asc. node	16102 Aug 31 21:36	6° Ω 09'46	18°01'46	superior conj	16103 Jul 27 01:52 16103 Jul 27 06:18	19° Ω 03'13 19° Ω 20'45	
evening max el	16102 Sep 14 22:46 16102 Sep 18 20:22	27° £ 11'13 0° M	10 01 40	minimum elong	16103 Jul 27 06:18 16103 Aug 02 22:29	0° m)	4 11 13
retrograde	16102 Sep 18 20.22 16102 Sep 21 10:11	0°MJ33′21		evening rise	16103 Aug 02 22:29 16103 Aug 10 15:45	12° Mg 34'35	
evening set	16102 Sep 23 23:24	0°M01'02		asc. node	16103 Aug 18 18:16	25° m/49'16	
	16102 Sep 24 00:24	30°R.Ω			16103 Aug 21 10:00	0° ت	
inferior conj	16102 Sep 30 11:14	24° ♀ 50'09	0°53'51	evening max el	16103 Aug 29 13:27	10° ≏ 45'33	18°15'04
minimum elong	16102 Sep 30 12:44	24° ≏ 46'18	0°53'33	retrograde	16103 Sep 04 22:20	14° ≏ 08'10	
desc. node	16102 Oct 03 09:58	21° ≏ 49′13		evening set	16103 Sep 07 20:14	13° ≏ 21'55	
min. Earth dist.	16102 Oct 03 08:34	21° ≏ 52'39	0.62154 AU	inferior conj	16103 Sep 13 19:36	7° ≙ 54'39	1°50'54
morning rise	16102 Oct 06 23:31	18° ≏ 45'20		minimum elong	16103 Sep 13 21:53	7° ≏ 48'03	1°50'14
direct	16102 Oct 13 15:58	16° ≏ 23'03		min. Earth dist.	16103 Sep 16 04:55	5° ჲ 10′39	0.64298 AU

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morning rise	16103 Sep 19 21:50	1° ≏ 35'01		morning rise	16104 Sep 02 08:03	14° m 58'01	
desc. node	16103 Sep 20 07:20	1° ≏ 16'50		desc. node	16104 Sep 06 04:42	12° m 42'49	
	16103 Sep 22 08:59	30° ₽, ™)		direct	16104 Sep 08 14:30	12° m 20'33	
direct	16103 Sep 26 11:19	29° Mp 00'46		morning max el	16104 Sep 21 16:14	20° Mp 04'56	26°35'02
	16103 Sep 30 20:47	0∘ ⊽		•	16104 Sep 30 04:52	0∘ ⊽	
morning max el	16103 Oct 10 04:48	6° ₽ 58'28	27°31'19		16104 Oct 20 00:48	0° M	
morning max cr	16103 Oct 27 22:32	0°M	27 31 17	morning set	16104 Oct 27 12:08	13°M29'00	
mamina aat		0° ∡ 734'01		max. Earth dist.		21°M07'04	1 24200 ATT
morning set	16103 Nov 14 08:43				16104 Oct 31 10:46		1.34289 AU
_	16103 Nov 14 01:50	0° ∡ ¹		asc. node	16104 Oct 31 16:17	21°M34'23	
asc. node	16103 Nov 14 19:29	1° ∡ ¹27'24			16104 Nov 04 19:53	0° ∡ 7	
max. Earth dist.	16103 Nov 18 23:36	9° ∡ ¹58'48	1.32652 AU				
				superior conj	16104 Nov 05 09:19	1° ∡ 109'42	0°41'59
superior conj	16103 Nov 22 09:58	17° ∡ 16'33	1°05'09	minimum elong	16104 Nov 05 07:17	0° ≯ ′59'08	0°42'15
minimum elong	16103 Nov 22 07:36	17° ∡ ¹03'48	1°05'30	evening rise	16104 Nov 12 18:07	16° ∡ ¹42'04	
•	16103 Nov 28 06:37	0°⋜		•	16104 Nov 19 08:36	0°ჳ	
evening rise	16103 Nov 29 08:39	2°る20'10		evening max el	16104 Dec 02 08:15	19° ろ 02'08	21°13'21
	16103 Dec 14 08:08	0° ≈		desc. node	16104 Dec 03 02:17	19° る 45'16	
desc. node	16103 Dec 17 05:17	3°≈54'13			16104 Dec 14 04:19	24° る 53'31	
			22051122	retrograde		24 3 35 31 24° る 35'20	
evening max el	16103 Dec 21 17:02	8°≈55'19	22°51′23	evening set	16104 Dec 16 23:25	•	
retrograde	16104 Jan 03 18:24	15° ≈ 23'00		inferior conj	16104 Dec 25 17:06	20° る 44'52	
evening set	16104 Jan 07 19:12	14° ≈ 47'35		minimum elong	16104 Dec 25 10:37	20° る 54'00	5°45'07
min. Earth dist.	16104 Jan 15 02:25	11° ≈ 26′06	0.54682 AU	min. Earth dist.	16104 Dec 26 07:46	20° る 24'09	0.54398 AU
inferior conj	16104 Jan 16 02:20	10° ≈ 52'06	-5°59'13	morning rise	16105 Jan 02 22:06	16° る 54'07	
minimum elong	16104 Jan 16 05:03	10° ≈ 48'15	5°58'28	direct	16105 Jan 06 22:46	16° ප 19'03	
morning rise	16104 Jan 24 16:09	7° ≈ 03'03		morning max el	16105 Jan 19 21:35	22° る 37'21	22°45'06
direct	16104 Jan 27 15:16	6°≈42'45		S	16105 Jan 26 06:07	0° ≈	
morning max el	16104 Feb 08 06:08	12° ≈ 19'15	21°02'52	asc. node	16105 Jan 27 15:24	1° ≈ 56'58	
asc. node	16104 Feb 10 18:06	14°≈58'20	21 02 32	morning set	16105 Feb 11 05:29	28°≈44'42	
asc. node		0° \		morning set		20 ≈44 42 0°)(
	16104 Feb 20 16:16				16105 Feb 11 19:37	υ π	
morning set	16104 Feb 27 18:17	14° ∺ 00'59					
				superior conj	16105 Feb 18 04:44	13° ¥ 43'43	1°22'22
superior conj	16104 Mar 06 03:00	29° ∺ 23′26	1°05'12	minimum elong	16105 Feb 18 06:53	13° ¥ 55′10	1°22'25
minimum elong	16104 Mar 06 05:33	29° ∺ 36'31	1°04'55	max. Earth dist.	16105 Feb 21 17:06	21° ∺ 07'57	1.33615 AU
	16104 Mar 06 10:07	$0^{\circ}\mathbf{\Upsilon}$		evening rise	16105 Feb 26 06:18	0° Ƴ 18′02	
max. Earth dist.	16104 Mar 11 01:29	9° Ƴ 19'22	1.35438 AU	•	16105 Feb 26 02:37	0° Y	
desc. node	16104 Mar 14 06:11	15° Ƴ 27'50		desc. node	16105 Mar 01 02:50	5° Ƴ 46'33	
evening rise	16104 Mar 15 00:48	16° Y ′54'59			16105 Mar 15 10:45	0°8	
evening rise	16104 Mar 22 09:21	0° 8		evening max el	16105 Apr 01 22:40	22° 8 08'21	27011100
				•	-	• • •	27 11 09
	16104 Apr 11 17:50	0°II	26021120	retrograde	16105 Apr 15 11:05	29° 8 40'06	
evening max el	16104 Apr 19 08:59	8° Ⅲ 32'04	26°21'38	evening set	16105 Apr 22 01:42	27° 8 09'16	
retrograde	16104 May 02 07:33	15° Ⅱ 55'09		asc. node	16105 Apr 25 12:35	23° 8 55'53	
evening set	16104 May 08 14:17	13° Ⅱ 22'45		min. Earth dist.	16105 Apr 25 22:54	23° 8 28'01	0.65298 AU
asc. node	16104 May 08 15:21	13° Ⅱ 20'35		inferior conj	16105 Apr 28 07:33	20° 8 49'08	0°51'15
min. Earth dist.	16104 May 12 16:08	9° Ⅱ 08'43	0.66926 AU	minimum elong	16105 Apr 28 06:13	20° 8 52'52	0°50'14
inferior conj	16104 May 14 12:13	6° Ⅱ 54'00	1°42'09	morning rise	16105 May 04 12:27	15° 8 19'27	
minimum elong	16104 May 14 10:08	7° Ⅱ 00′24	1°40'49	direct	16105 May 07 06:53	14° 8 38'34	
morning rise	16104 May 20 06:56	1° Ⅱ 11'26		morning max el	16105 May 13 14:07		17°58'45
direct	16104 May 23 10:52	0° Ⅱ 15'01		Ü	16105 May 22 15:55	0°II	
morning max el	16104 May 29 22:40	3° Ⅱ 41'34	18°28'25	desc. node	16105 May 28 03:54	8° Ⅱ 49'40	
desc. node	16104 Jun 10 06:57	18° Ⅱ 49'41		morning set	16105 May 31 16:07	14° Ⅱ 34'27	
desc. flode		0°95		morning set	•	0°95	
marning act	16104 Jun 17 10:53	3°930'59			16105 Jun 10 04:16	v = 3	
morning set	16104 Jun 19 16:28	3 930 39			16105 1 15 00 50	70642122	1054126
				superior conj	16105 Jun 15 00:52	7°9643'33	
superior conj	16104 Jul 05 11:54	28° © 16'30		minimum elong	16105 Jun 14 16:33	7° 5 0'41	1°54'42
minimum elong	16104 Jul 05 08:40	28° © 03'55	2°13'08	max. Earth dist.	16105 Jun 18 11:04	13°906'40	1.45759 AU
max. Earth dist.	16104 Jul 05 14:47	28° © 27'45	1.45998 AU		16105 Jun 29 08:34	0 \circ Ω	
	16104 Jul 06 14:28	$0^{\circ}\Omega$		evening rise	16105 Jul 01 02:53	2° Ω 42'29	
evening rise	16104 Jul 21 08:06	23° Ω 03'52		greatest brilliancy	16105 Jul 14 15:08	23° Ω 08′23	-0.7m
-	16104 Jul 25 17:49	0° m)		-	16105 Jul 19 10:44	0° m)	
greatest brilliancy	16104 Jul 29 23:06	6° m/35'55	-0.8m	asc. node	16105 Jul 22 11:44	3° m/59'54	
asc. node	16104 Aug 04 14:58	15° mp 08'23	~ · ~•	evening max el	16105 Jul 26 09:26	8° m/25'30	19°33'00
	•		18°45'48	•			17 33 00
evening max el	16104 Aug 12 01:44	24° Mp 32'14	10 73 40	retrograde	16105 Aug 02 14:39	12° M) 27'03	
retrograde	16104 Aug 18 16:46	28° Mp 08'07		evening set	16105 Aug 06 07:56	11° Mp 06'55	2055101
evening set	16104 Aug 22 00:02	27° m 05'37	202015	inferior conj	16105 Aug 11 16:35	5° Mp 12'29	2°55'01
inferior conj	16104 Aug 27 14:25	21° Mp 24'04	2°30'26	minimum elong	16105 Aug 11 18:03	5° m ,07'39	2°54'27
minimum elong	16104 Aug 27 16:33	21° Mp 17'23	2°29'46	min. Earth dist.	16105 Aug 12 22:10	3° Mp 34'25	0.67596 AU
min. Earth dist.	16104 Aug 29 10:03	19° Mp 08'02	0.66148 AU		16105 Aug 15 21:12	30° R Ω	

	16105 4 17 02 27	200 0 47100		1	16106 1 1 00 00 22	220 (0.1.2120)	
morning rise	16105 Aug 17 03:37	28° Ω 46'09		asc. node	16106 Jul 09 08:33	22°Ω13'20	
direct	16105 Aug 23 00:13	26° Ω 13'49		evening max el	16106 Jul 09 11:08	22° Ω 19'46	20°34'54
desc. node	16105 Aug 24 02:04	26° Ω 18′23		retrograde	16106 Jul 17 13:40	26° Ω 58′05	
	16105 Aug 31 07:56	0° m		evening set	16106 Jul 21 17:37	25° Ω 19'57	
morning max el	16105 Sep 04 03:18	3° № 29'00	25°18'31	inferior conj	16106 Jul 26 23:29	19° Ω 13'50	3°06'53
	16105 Sep 24 10:22	0。 ಹ		minimum elong	16106 Jul 27 00:02	19° Ω 11'57	3°06'19
morning set	16105 Oct 10 00:17	25° ≏ 43'08		min. Earth dist.	16106 Jul 27 15:18	18° Ω 19'22	0.68583 AU
Ü	16105 Oct 12 08:48	o° M ₊		morning rise	16106 Aug 01 06:08	12° Ω 51′08	
max. Earth dist.	16105 Oct 13 13:12	2°M11'37	1.36397 AU	direct	16106 Aug 06 15:09	10° Ω 30'36	
asc. node	16105 Oct 18 13:02	11°M45'30	1.505) / 110	desc. node	16106 Aug 10 23:25	11° Ω 45'11	
asc. node	10103 Oct 10 13.02	11 1143 30			16106 Aug 17 14:13	17° Ω 03'07	23°51'22
	16105 0 + 10 22 25	1.40 m 2.6112	0012100	morning max el			23 31 22
superior conj	16105 Oct 19 23:35	14°M36'12	0°13'00		16106 Aug 28 08:51	0° m	
minimum elong	16105 Oct 19 22:47	14°M32'12	0°13'19		16106 Sep 17 10:38	0∘ ⊽	
behind sun begin	16105 Oct 19 19:09	14° M .14'11		morning set	16106 Sep 21 16:57	7° ჲ 06'28	
behind sun end	16105 Oct 20 02:24	14°M50'13		max. Earth dist.	16106 Sep 25 12:05	13° ≏ 40'44	1.38773 AU
	16105 Oct 27 13:33	0° ∡ ¹					
evening rise	16105 Oct 28 00:14	0° ≯ 754'30		superior conj	16106 Oct 03 01:09	27° ≏ 26'54	-0°20'55
evening max el	16105 Nov 14 12:44	29° √ 49'57	19°52'51	minimum elong	16106 Oct 03 02:37	27° ♀ 33'54	0°20'23
	16105 Nov 14 16:47	6°0		•	16106 Oct 04 09:24	0° M	
desc. node	16105 Nov 19 23:22	3°₹49'56		asc. node	16106 Oct 05 09:45	1°M56'36	
retrograde	16105 Nov 24 17:57	4° ප 555'46		evening rise	16106 Oct 12 00:23	14°M50'37	
evening set	16105 Nov 26 19:29	4°₹44'16		evening rise	16106 Oct 20 02:12	0° √	
_		4 344 10 0°る44'24	4927110				10054122
inferior conj	16105 Dec 05 13:29			evening max el	16106 Oct 28 07:22	11° × ⁷ 28'03	18°54'33
minimum elong	16105 Dec 05 03:27	0°る59'46	4°33'35	retrograde	16106 Nov 05 23:30	15° ∡ 50′34	
	16105 Dec 06 18:21	30°Ŗ ⋌ ¹		desc. node	16106 Nov 06 20:32	15° ∡ ¹48′01	
min. Earth dist.	16105 Dec 07 14:32	29° х 29'14	0.55064 AU	evening set	16106 Nov 07 20:55	15° ₹ 38'52	
morning rise	16105 Dec 13 10:10	26° ₹ 33'19		inferior conj	16106 Nov 16 03:27	11° ∡ "20′16	-2°57'08
direct	16105 Dec 18 11:45	25° ₹ 37'01		minimum elong	16106 Nov 15 20:13	11° ∡ ³33′05	2°53'42
	16105 Dec 29 09:38	8°0		min. Earth dist.	16106 Nov 19 02:03	9° ∡ 15'46	0.56539 AU
morning max el	16106 Jan 01 05:57	2° る 27'53	24°35'16	morning rise	16106 Nov 23 16:40	6° х 34′40	
asc. node	16106 Jan 14 12:37	19° る 53'51		direct	16106 Nov 29 13:22	5° х 13′07	
	16106 Jan 20 04:01	0° ≈		morning max el	16106 Dec 13 17:07	12° ∡ ′29'54	26°14'27
morning set	16106 Jan 26 17:28	13° ≈ 26'12			16106 Dec 27 08:08	0°る	
morning sec	10100 0411 20 17.20	13 10 20 12		asc. node	16107 Jan 01 09:48	8° ප 34'34	
superior conj	16106 Feb 02 11:51	28°≈15'58	1°33'13	morning set	16107 Jan 11 04:26	8 ろ 00'55	
minimum elong	16106 Feb 02 13:10	28°≈23'12	1°33'35	morning set	16107 Jan 12 02:26	20° ≈	
minimum clong	16106 Feb 02 13:10 16106 Feb 03 06:51	20 ≈ 23 12 0° H	1 33 33		1010/ Jan 12 02.20	0 ~	
max. Earth dist.	16106 Feb 04 16:29	3°) €02'55	1.32231 AU	superior conj	16107 Jan 17 22:08	12° ≈ 54'12	1°37'55
evening rise	16106 Feb 09 22:24	14°) €05'40		minimum elong	16107 Jan 17 22:25	12° ≈ 55'49	1°38'30
desc. node	16106 Feb 15 23:29	25° ∺ 51'48		max. Earth dist.	16107 Jan 18 21:42	15° ≈ 05′27	1.31345 AU
	16106 Feb 18 06:02	0 ° $\mathbf{\gamma}$		evening rise	16107 Jan 24 22:23	28° ≈ 11'19	
	16106 Mar 10 11:10	9° 8			16107 Jan 25 19:12	0° ∀	
evening max el	16106 Mar 15 11:00	5° 8 19'29	27°35'10	desc. node	16107 Feb 02 20:11	15° ¥ 37'50	
retrograde	16106 Mar 29 07:25	12° 8 50'03			16107 Feb 11 12:10	0° Y	
evening set	16106 Apr 05 02:35	10° 8 27'43		evening max el	16107 Feb 25 19:31	17° Y 52'16	27°27'29
min. Earth dist.	16106 Apr 08 21:07	7° 8 15'16	0.63329 AU	retrograde	16107 Mar 11 19:31	25° ℃ 15'45	
inferior conj	16106 Apr 11 16:59	4° 8 24'14		evening set	16107 Mar 18 14:12	23° Y ′09′01	
minimum elong	16106 Apr 11 17:25	4° 8 23'09	0°13'34	min. Earth dist.	16107 Mar 22 09:21	20°Υ18'46	0.61129 AU
transit middle	16106 Apr 11 17:25	4° 8 23'09	0°13'34	inferior conj	16107 Mar 25 13:09	17° Υ 30'29	
		4° 8 27'24	0 13 34	minimum elong	16107 Mar 25 16:28	17° Υ 23'05	
transit begin	16106 Apr 11 15:44	4 02/24		minimum elong			1°30'29
transit end	16106 4 11 10 06	40 1 1015 4		•			
asc. node	16106 Apr 11 19:06	4° 8 18'54		asc. node	16107 Mar 30 07:12	13° Y 46'44	
	16106 Apr 12 09:52	3° 8 41'47		asc. node morning rise	16107 Mar 30 07:12 16107 Apr 01 22:02	13° Y 46'44 12° Y 34'35	
	16106 Apr 12 09:52 16106 Apr 16 19:14	3° ႘ 41'47 30°ℝ Υ		asc. node morning rise direct	16107 Mar 30 07:12 16107 Apr 01 22:02 16107 Apr 04 01:23	13° Y 46'44 12° Y 34'35 12° Y 15'10	
morning rise	16106 Apr 12 09:52 16106 Apr 16 19:14 16106 Apr 18 10:50	3° ႘ 41'47 30°ℝ ϓ 29° ϒ 09'55		asc. node morning rise	16107 Mar 30 07:12 16107 Apr 01 22:02 16107 Apr 04 01:23 16107 Apr 11 00:21	13°Y46'44 12°Y34'35 12°Y15'10 15°Y44'36	17°52'16
morning rise direct	16106 Apr 12 09:52 16106 Apr 16 19:14	3° 8 41'47 30° RY 29° Y 09'55 28° Y 41'28		asc. node morning rise direct	16107 Mar 30 07:12 16107 Apr 01 22:02 16107 Apr 04 01:23 16107 Apr 11 00:21 16107 Apr 20 23:42	13°Y46'44 12°Y34'35 12°Y15'10 15°Y44'36 0°8	17°52'16
•	16106 Apr 12 09:52 16106 Apr 16 19:14 16106 Apr 18 10:50	3° ႘ 41'47 30°ℝ ϓ 29° ϒ 09'55		asc. node morning rise direct	16107 Mar 30 07:12 16107 Apr 01 22:02 16107 Apr 04 01:23 16107 Apr 11 00:21	13°Y46'44 12°Y34'35 12°Y15'10 15°Y44'36	17°52'16
•	16106 Apr 12 09:52 16106 Apr 16 19:14 16106 Apr 18 10:50 16106 Apr 20 20:57	3° 8 41'47 30° RY 29° Y 09'55 28° Y 41'28	17°46'29	asc. node morning rise direct morning max el	16107 Mar 30 07:12 16107 Apr 01 22:02 16107 Apr 04 01:23 16107 Apr 11 00:21 16107 Apr 20 23:42	13°Y46'44 12°Y34'35 12°Y15'10 15°Y44'36 0°8	17°52'16
direct	16106 Apr 12 09:52 16106 Apr 16 19:14 16106 Apr 18 10:50 16106 Apr 20 20:57 16106 Apr 24 21:18	3° 8 41'47 30° R Υ 29° Y 09'55 28° Y 41'28 0° 8	17°46'29	asc. node morning rise direct morning max el morning set	16107 Mar 30 07:12 16107 Apr 01 22:02 16107 Apr 04 01:23 16107 Apr 11 00:21 16107 Apr 20 23:42 16107 Apr 26 16:00	13°Y46'44 12°Y34'35 12°Y15'10 15°Y44'36 0°8 10°805'51	17°52'16
direct morning max el	16106 Apr 12 09:52 16106 Apr 16 19:14 16106 Apr 18 10:50 16106 Apr 20 20:57 16106 Apr 24 21:18 16106 Apr 27 07:42	3°841'47 30°8°Y 29°Y09'55 28°Y41'28 0°8 1°858'22	17°46'29	asc. node morning rise direct morning max el morning set	16107 Mar 30 07:12 16107 Apr 01 22:02 16107 Apr 04 01:23 16107 Apr 11 00:21 16107 Apr 20 23:42 16107 Apr 26 16:00	13°Y46'44 12°Y34'35 12°Y15'10 15°Y44'36 0°8 10°805'51	
morning max el morning set	16106 Apr 12 09:52 16106 Apr 16 19:14 16106 Apr 18 10:50 16106 Apr 20 20:57 16106 Apr 24 21:18 16106 Apr 27 07:42 16106 May 13 17:46 16106 May 15 00:47	3°841'47 30°8°Y 29°Y09'55 28°Y41'28 0°8 1°858'22 26°851'31	17°46'29	asc. node morning rise direct morning max el morning set desc. node superior conj	16107 Mar 30 07:12 16107 Apr 01 22:02 16107 Apr 04 01:23 16107 Apr 11 00:21 16107 Apr 20 23:42 16107 Apr 26 16:00 16107 May 01 21:36	13°Y46'44 12°Y34'35 12°Y15'10 15°Y44'36 0°8 10°805'51 19°829'41	
morning max el morning set	16106 Apr 12 09:52 16106 Apr 16 19:14 16106 Apr 18 10:50 16106 Apr 20 20:57 16106 Apr 24 21:18 16106 Apr 27 07:42 16106 May 13 17:46	3°841'47 30°8°Y 29°Y09'55 28°Y41'28 0°8 1°858'22 26°851'31 29°804'34	17°46'29	asc. node morning rise direct morning max el morning set desc. node	16107 Mar 30 07:12 16107 Apr 01 22:02 16107 Apr 04 01:23 16107 Apr 11 00:21 16107 Apr 20 23:42 16107 Apr 26 16:00 16107 May 01 21:36 16107 May 07 13:10 16107 May 07 09:08	13°Y46'44 12°Y34'35 12°Y15'10 15°Y44'36 0°8 10°805'51 19°829'41 29°822'29 29°805'09	-0°45'03
direct morning max el morning set desc. node	16106 Apr 12 09:52 16106 Apr 16 19:14 16106 Apr 18 10:50 16106 Apr 20 20:57 16106 Apr 24 21:18 16106 Apr 27 07:42 16106 May 13 17:46 16106 May 15 00:47 16106 May 15 13:43	3°841'47 30°RY 29°Y09'55 28°Y41'28 0°8 1°858'22 26°851'31 29°804'34 0°II		asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	16107 Mar 30 07:12 16107 Apr 01 22:02 16107 Apr 04 01:23 16107 Apr 11 00:21 16107 Apr 20 23:42 16107 Apr 26 16:00 16107 May 01 21:36 16107 May 07 13:10 16107 May 07 09:08 16107 May 07 21:55	13°Y46'44 12°Y34'35 12°Y15'10 15°Y44'36 0°8 10°805'51 19°829'41 29°822'29 29°805'09 0°II	-0°45'03 0°45'02
direct morning max el morning set desc. node superior conj	16106 Apr 12 09:52 16106 Apr 16 19:14 16106 Apr 18 10:50 16106 Apr 20 20:57 16106 Apr 24 21:18 16106 Apr 27 07:42 16106 May 13 17:46 16106 May 15 00:47 16106 May 15 13:43	3°841'47 30°8°Y 29°Y09'55 28°Y41'28 0°8 1°858'22 26°851'31 29°804'34 0°Ⅲ	-1°22'43	asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	16107 Mar 30 07:12 16107 Apr 01 22:02 16107 Apr 04 01:23 16107 Apr 11 00:21 16107 Apr 20 23:42 16107 Apr 26 16:00 16107 May 01 21:36 16107 May 07 13:10 16107 May 07 09:08 16107 May 07 21:55 16107 May 14 21:07	13°Y46'44 12°Y34'35 12°Y15'10 15°Y44'36 0°8 10°805'51 19°829'41 29°822'29 29°805'09 0°II 11°II39'00	-0°45'03
morning max el morning set desc. node superior conj minimum elong	16106 Apr 12 09:52 16106 Apr 16 19:14 16106 Apr 18 10:50 16106 Apr 20 20:57 16106 Apr 24 21:18 16106 Apr 27 07:42 16106 May 13 17:46 16106 May 15 00:47 16106 May 15 13:43 16106 May 26 07:16 16106 May 25 23:40	3°841'47 30°8°Y 29°Y09'55 28°Y41'28 0°8 1°858'22 26°851'31 29°804'34 0°Ⅲ 18°Ⅲ00'27 17°Ⅲ29'23	-1°22'43 1°22'30	asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	16107 Mar 30 07:12 16107 Apr 01 22:02 16107 Apr 04 01:23 16107 Apr 11 00:21 16107 Apr 20 23:42 16107 Apr 26 16:00 16107 May 01 21:36 16107 May 07 09:08 16107 May 07 21:55 16107 May 14 21:07 16107 May 21 08:08	13°Y46'44 12°Y34'35 12°Y15'10 15°Y44'36 0°8 10°805'51 19°829'41 29°822'29 29°805'09 0°11 11°1139'00 21°1158'57	-0°45'03 0°45'02
direct morning max el morning set desc. node superior conj	16106 Apr 12 09:52 16106 Apr 16 19:14 16106 Apr 18 10:50 16106 Apr 20 20:57 16106 Apr 24 21:18 16106 Apr 27 07:42 16106 May 13 17:46 16106 May 15 00:47 16106 May 25 07:16 16106 May 25 23:40 16106 Jun 01 05:56	3°841'47 30°8°Y 29°Y09'55 28°Y41'28 0°8 1°858'22 26°851'31 29°804'34 0°Ⅲ 18°Ⅲ00'27 17°Ⅲ29'23 27°Ⅲ35'31	-1°22'43	asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	16107 Mar 30 07:12 16107 Apr 01 22:02 16107 Apr 04 01:23 16107 Apr 11 00:21 16107 Apr 20 23:42 16107 Apr 26 16:00 16107 May 01 21:36 16107 May 07 09:08 16107 May 07 21:55 16107 May 14 21:07 16107 May 21 08:08 16107 May 26 12:40	13°Y46'44 12°Y34'35 12°Y15'10 15°Y44'36 0°8 10°805'51 19°829'41 29°822'29 29°805'09 0°11 11°1139'00 21°1158'57 0°5	-0°45'03 0°45'02
direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	16106 Apr 12 09:52 16106 Apr 16 19:14 16106 Apr 18 10:50 16106 Apr 20 20:57 16106 Apr 24 21:18 16106 Apr 27 07:42 16106 May 13 17:46 16106 May 15 00:47 16106 May 15 13:43 16106 May 26 07:16 16106 May 25 23:40 16106 Jun 01 05:56 16106 Jun 02 18:24	3°841'47 30°8°Y 29°Y09'55 28°Y41'28 0°8 1°858'22 26°851'31 29°804'34 0°Ⅲ 18°Ⅲ00'27 17°Ⅲ29'23 27°Ⅲ35'31 0°\$	-1°22'43 1°22'30	asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	16107 Mar 30 07:12 16107 Apr 01 22:02 16107 Apr 04 01:23 16107 Apr 11 00:21 16107 Apr 20 23:42 16107 Apr 26 16:00 16107 May 01 21:36 16107 May 07 13:10 16107 May 07 09:08 16107 May 07 09:08 16107 May 14 21:07 16107 May 21 08:08 16107 May 26 12:40 16107 Jun 16 18:45	13°Y46'44 12°Y34'35 12°Y15'10 15°Y44'36 0°8 10°805'51 19°829'41 29°822'29 29°805'09 0°II 11°II39'00 21°II58'57 0°\$ 0°\$\alpha\$	-0°45'03 0°45'02 1.43218 AU
morning max el morning set desc. node superior conj minimum elong	16106 Apr 12 09:52 16106 Apr 16 19:14 16106 Apr 18 10:50 16106 Apr 20 20:57 16106 Apr 24 21:18 16106 Apr 27 07:42 16106 May 13 17:46 16106 May 15 00:47 16106 May 15 13:43 16106 May 26 07:16 16106 May 25 23:40 16106 Jun 01 05:56 16106 Jun 02 18:24 16106 Jun 10 13:20	3°841'47 30°8°Y°29°Y09'55 28°Y41'28 0°8 1°858'22 26°851'31 29°804'34 0°Ⅲ 18°Ⅲ00'27 17°Ⅲ29'23 27°Ⅲ35'31 0°9 12°906'43	-1°22'43 1°22'30	asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	16107 Mar 30 07:12 16107 Apr 01 22:02 16107 Apr 04 01:23 16107 Apr 11 00:21 16107 Apr 20 23:42 16107 Apr 26 16:00 16107 May 01 21:36 16107 May 07 13:10 16107 May 07 09:08 16107 May 07 21:55 16107 May 14 21:07 16107 May 21 08:08 16107 May 26 12:40 16107 Jun 16 18:45 16107 Jun 22 07:00	13°Y46'44 12°Y34'35 12°Y15'10 15°Y44'36 0°8 10°805'51 19°829'41 29°822'29 29°805'09 0°II 11°II39'00 21°II58'57 0°\$ 0°\$\Omega\$ 0°\$\Omega\$ 6°\$\Omega\$13'40	-0°45'03 0°45'02
direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	16106 Apr 12 09:52 16106 Apr 16 19:14 16106 Apr 18 10:50 16106 Apr 20 20:57 16106 Apr 24 21:18 16106 Apr 27 07:42 16106 May 13 17:46 16106 May 15 00:47 16106 May 15 13:43 16106 May 26 07:16 16106 May 25 23:40 16106 Jun 01 05:56 16106 Jun 02 18:24	3°841'47 30°8°Y 29°Y09'55 28°Y41'28 0°8 1°858'22 26°851'31 29°804'34 0°Ⅲ 18°Ⅲ00'27 17°Ⅲ29'23 27°Ⅲ35'31 0°\$	-1°22'43 1°22'30	asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	16107 Mar 30 07:12 16107 Apr 01 22:02 16107 Apr 04 01:23 16107 Apr 11 00:21 16107 Apr 20 23:42 16107 Apr 26 16:00 16107 May 01 21:36 16107 May 07 13:10 16107 May 07 09:08 16107 May 07 09:08 16107 May 14 21:07 16107 May 21 08:08 16107 May 26 12:40 16107 Jun 16 18:45	13°Y46'44 12°Y34'35 12°Y15'10 15°Y44'36 0°8 10°805'51 19°829'41 29°822'29 29°805'09 0°II 11°II39'00 21°II58'57 0°\$ 0°\$\alpha\$	-0°45'03 0°45'02 1.43218 AU

	16107 1 1 01 12 07	110 025152			16100 M 10 20 12	000	
retrograde	16107 Jul 01 12:07	11° Ω 35'53		·	16108 May 18 20:13	0°©	22000146
evening set	16107 Jul 06 03:14	9° Ω 40'40	2007120	evening max el	16108 Jun 03 22:35	20°907'34	23°08'46
inferior conj	16107 Jul 11 08:55	3° Ω 24'13	3°07'29	asc. node	16108 Jun 12 02:27	25° © 52'38	
minimum elong	16107 Jul 11 08:31	3° Ω 25'39	3°06'48	retrograde	16108 Jun 14 08:27	26° © 14'26	
min. Earth dist.	16107 Jul 11 11:24	3° Ω 15'31	0.69086 AU	evening set	16108 Jun 19 11:05	24°504'10	
	16107 Jul 13 21:26	30° ₹ 5		inferior conj	16108 Jun 24 18:53	17° © 39'35	2°57'32
morning rise	16107 Jul 16 13:36	27° © 07'38		minimum elong	16108 Jun 24 17:37	17° © 43'59	2°56'38
direct	16107 Jul 21 10:21	25° © 03'26		min. Earth dist.	16108 Jun 24 08:22	18° © 16'00	0.69095 AU
desc. node	16107 Jul 28 20:45	28° © 39'13		morning rise	16108 Jun 30 00:05	11° © 30'43	
	16107 Jul 30 08:18	$0^{\circ}\Omega$		direct	16108 Jul 04 08:38	9° 5 45'19	
morning max el	16107 Jul 31 02:56	0° Ω 45'41	22°22'35	morning max el	16108 Jul 12 20:01	14° © 37'25	20°59'57
	16107 Aug 22 04:24	0° m)		desc. node	16108 Jul 14 18:00	16° © 38'33	
morning set	16107 Sep 02 10:34	17° m) 31'07			16108 Jul 25 02:49	$0^{\circ}\Omega$	
max. Earth dist.	16107 Sep 07 13:19	25° m 56'33	1.41150 AU	morning set	16108 Aug 12 05:13	26° Ω 58′23	
	16107 Sep 09 22:47	0∘ ত			16108 Aug 14 03:38	o° m y	
	_			max. Earth dist.	16108 Aug 19 20:10	9° m 04'30	1.43251 AU
superior conj	16107 Sep 15 09:43	9° ₽ 31'55	-0°57'38			-	
minimum elong	16107 Sep 15 14:21	9° ₽ 52'33	0°56'51	superior conj	16108 Aug 26 21:05	20° m 42'26	-1°33'08
asc. node	16107 Sep 22 06:26	22° ₽ 04'07		minimum elong	16108 Aug 27 04:30	21° m) 13'46	
evening rise	16107 Sep 25 15:15	28° £ 21'58		mmunum ereng	16108 Sep 01 07:06	0∘ ⊽	1 3220
e renning rise	16107 Sep 26 12:12	0°M		evening rise	16108 Sep 07 16:35	11° ≏ 17'35	
evening max el	16107 Oct 11 12:56	23°ML51'40	18°18'18	asc. node	16108 Sep 08 03:07	12° ≏ 04'29	
retrograde	16107 Oct 11 12:30	27°M40'31	10 10 10	asc. nouc	16108 Sep 18 16:09	0°M	
•	16107 Oct 19 00:31 16107 Oct 21 01:43	27°M24'00		evening max el	16108 Sep 24 01:10	6°M51'04	18°02'23
evening set				-	•		18 02 23
desc. node	16107 Oct 24 17:49	25°M41'13	1015114	retrograde	16108 Sep 30 18:30	10°M 19'00	
inferior conj	16107 Oct 28 15:19	22°M44'11		evening set	16108 Oct 03 02:55	9°M53'33	0012115
minimum elong	16107 Oct 28 12:28	22°M50'03	1°13'32	inferior conj	16108 Oct 09 23:29	4°M53'38	0°12'15
min. Earth dist.	16107 Oct 31 21:23	20°M03'26	0.58564 AU	minimum elong	16108 Oct 09 23:53	4°M52'41	0°12'26
morning rise	16107 Nov 04 19:45	17° M 21'47		transit middle	16108 Oct 09 23:53	4° ™ 52'41	0°12'26
direct	16107 Nov 11 05:15	15°M₃33'24		transit begin	16108 Oct 09 21:48	4° ™ 57'41	
morning max el	16107 Nov 25 12:13	23°M11'34	27°24'51	transit end	16108 Oct 10 01:59	4° ™ 47'40	
	16107 Dec 01 15:03	0° ∡ ¹		desc. node	16108 Oct 10 15:07	4° ™ 16′04	
asc. node	16107 Dec 19 06:53	27° ∡ ¹47'25		min. Earth dist.	16108 Oct 13 02:12	1° M 56'07	0.60840 AU
	16107 Dec 20 10:36	0°ಕ			16108 Oct 15 09:03	30° ₹ Ω	
morning set	16107 Dec 26 12:32	12° る 23'29		morning rise	16108 Oct 16 17:48	29° ഫ 01'32	
				direct	16108 Oct 23 09:38	26° ≏ 49'23	
superior conj	16108 Jan 02 09:34	27° る 32'20	1°36'33		16108 Nov 01 01:07	0° M ₊	
minimum elong	16108 Jan 02 08:48	27° る 28'05	1°37'14	morning max el	16108 Nov 06 15:01	4° M L42'17	27°57'09
max. Earth dist.	16108 Jan 02 05:20	27° る 08'38	1.30992 AU		16108 Nov 25 11:55	0° ∡ 7	
	16108 Jan 03 11:55	0°≈		asc. node	16108 Dec 05 03:54	17° ∡ 23'41	
evening rise	16108 Jan 09 03:52	12° ≈ 28'49		morning set	16108 Dec 09 15:52	26° ∡ ¹29'27	
	16108 Jan 17 22:20	0° ∀			16108 Dec 11 07:44	0°₹	
desc. node	16108 Jan 20 16:57	4°) € 56'29		max. Earth dist.	16108 Dec 15 11:42	9° る 04'24	1.31195 AU
evening max el	16108 Feb 07 21:27	29°) 34′49	26°44'44				
	16108 Feb 08 08:11	$0^{\circ}\mathbf{\Upsilon}$		superior conj	16108 Dec 16 20:19	12° る 05'33	1°29'10
retrograde	16108 Feb 21 21:59	6° Ƴ 47'53		minimum elong	16108 Dec 16 18:40	11° る 56'18	1°29'47
evening set	16108 Feb 28 09:14	5° Ƴ 03'39		evening rise	16108 Dec 23 12:53	26° る 53'55	
min. Earth dist.	16108 Mar 03 11:16	2° Y 25'07	0.58875 AU	C	16108 Dec 24 23:36	0° ≈	
inferior conj	16108 Mar 06 16:09	29° ¥ 56'42		desc. node	16109 Jan 06 13:46	23° ≈ 37'54	
minimum elong	16108 Mar 06 23:03	29°) 43'19			16109 Jan 10 19:37	0°) €	
8	16108 Mar 06 14:27	30° ₹		evening max el	16109 Jan 19 15:12	10°) €24'57	25°29'08
morning rise	16108 Mar 14 16:25	25°) 21'45		retrograde	16109 Feb 02 12:44	17°) 24'22	20 20 00
asc. node	16108 Mar 16 04:34	25°\(\)\(\)\(\)\(\)\(\)\(\)		evening set	16109 Feb 08 08:02	16°) €07'30	
direct	16108 Mar 16 15:40	25° \ 07'51		min. Earth dist.	16109 Feb 13 03:59	13° ¥ 26′21	0.56821 AU
morning max el	16108 Mar 24 12:17	29° H 01'22	18°17'18	inferior conj	16109 Feb 15 22:48	11° X 34'27	
morning max ci	16108 Mar 25 10:59	29 π 01 22 0° Υ	10 1/10	minimum elong	16109 Feb 15 22.48 16109 Feb 16 08:10	11° X 34'27	4°26'42
morning set		23° Υ ′59'09		•		7° ¥ 20'44	4 20 42
morning set	16108 Apr 09 04:58 16108 Apr 12 09:17	0° 8		morning rise direct	16109 Feb 24 11:08 16109 Feb 26 11:49	7° ∺ 08'28	
1 1	-						
desc. node	16108 Apr 17 18:21	10° 8 00'03		asc. node	16109 Mar 03 01:54	8° ¥ 15'19	10002127
	16100 4 10 17 06	110 42122	0007154	morning max el	16109 Mar 07 15:22	11°) €37'01	19°03'27
superior conj	16108 Apr 18 17:06	11° 8 43'32			16109 Mar 19 21:14	0° Υ	
minimum elong	16108 Apr 18 16:27	11° 8 40'39	0°08'13	morning set	16109 Mar 24 04:07	8° Y 18'20	
behind sun begin	16108 Apr 18 10:03	11° 8 11'33			1.0100	0.4000	000 511 1
behind sun end	16108 Apr 18 22:52	12° 8 09'41		superior conj	16109 Apr 01 14:58	24° Y ′52'04	0°25'11
max. Earth dist.	16108 Apr 26 07:01	25° 8 01'58	1.41176 AU	minimum elong	16109 Apr 01 16:30	24° Y ′59'24	0°24'41
	16108 Apr 29 06:08	0°II			16109 Apr 04 08:09	0° 8	
evening rise	16108 Apr 30 21:36	2° Ⅱ 42'13		desc. node	16109 Apr 04 15:03	0° 8 32'05	

max. Earth dist.	16109 Apr 08 13:18	7° 8 41'50	1.38905 AU	evening rise	16110 Mar 25 14:31	26° Ƴ 47'26	
evening rise	16109 Apr 12 08:24	14° 8 20'42	1.50900110	overmig rise	16110 Mar 27 09:31	0°8	
	16109 Apr 21 22:06	0°II			16110 Apr 15 08:37	0°II	
	16109 May 13 17:25	0° ©		evening max el	16110 Apr 30 01:56	17° Ⅱ 56'40	25°44'40
evening max el	16109 May 17 12:19	4° 5 02'38	24°29'57	retrograde	16110 May 12 13:40	25° Ⅱ 08'32	
retrograde	16109 May 29 01:21	10° © 47'26		asc. node	16110 May 16 20:36	23° Ⅱ 54'16	
asc. node	16109 May 29 23:30	10°543'50		evening set	16110 May 18 14:48	22° I I38'28	
evening set	16109 Jun 03 15:30	8° 5 25'14		min. Earth dist.	16110 May 22 20:12	18° Ⅲ 04'11	0.67672 AU
min. Earth dist.	16109 Jun 08 04:01	3° 5 014'19	0.68619 AU	inferior conj	16110 May 24 08:42	16° Ⅱ 08'05	2°05'39
inferior conj	16109 Jun 09 03:28	1° © 55'36	2°37'06	minimum elong	16110 May 24 06:31	16° Ⅱ 15′04	2°04'20
minimum elong	16109 Jun 09 01:33	2° © 02'02	2°35'57	morning rise	16110 May 29 22:47	10° Ⅱ 18'47	
	16109 Jun 10 14:30	30°Ŗ Ⅱ		direct	16110 Jun 02 08:46	9° Ⅱ 11'59	
morning rise	16109 Jun 14 11:45	25° Ⅱ 55'50		morning max el	16110 Jun 09 02:38	12° Ⅱ 50′07	18°53'12
direct	16109 Jun 18 08:41	24° Ⅲ 30′02		desc. node	16110 Jun 18 12:14	24° Ⅱ 48'49	
morning max el	16109 Jun 25 19:42	28° Ⅲ 39'13	19°49'03		16110 Jun 21 23:58	0 \circ 50	
	16109 Jun 27 02:58	0°€		greatest brilliancy	16110 Jun 22 13:32	0° © 51'18	-0.8m
desc. node	16109 Jul 01 15:10	5° © 25'57		morning set	16110 Jul 01 19:42	15° © 05'55	
	16109 Jul 18 13:35	0° Ω			16110 Jul 11 10:03	0° Ω	
morning set	16109 Jul 22 09:54	5° Ω 52'23		max. Earth dist.	16110 Jul 16 04:03	7° 6 (24'13	1.45796 AU
max. Earth dist.	16109 Aug 02 09:32	22° Ω 58'10	1.44855 AU		16110 1 1 10 01 04	100 0 20110	201.4102
	16109 Aug 06 19:23	0° m)		superior conj	16110 Jul 18 01:04	10°Ω20'18	
	1(100 A 07 00.5(00 m = 4122	2001107	minimum elong	16110 Jul 18 02:27	10° Ω 25'42	2°14'38
superior conj	16109 Aug 07 08:56	0° m 54'32 1° m 23'13	-2°01'06 2°01'04	avanina riaa	16110 Jul 30 10:55	0° Mp 4° Mp 30'00	
minimum elong evening rise	16109 Aug 07 16:03 16109 Aug 20 23:08	23°m)23'49	2 01 04	evening rise asc. node	16110 Aug 02 06:06 16110 Aug 12 20:30	21°M)24'51	
evening rise	16109 Aug 20 23:08 16109 Aug 24 20:54	0° ⊽		asc. node	16110 Aug 12 20:30	0° ⊽	
asc. node	16109 Aug 24 20:34 16109 Aug 25 23:48	0 = 1° £ 52'57		evening max el	16110 Aug 18 19:49 16110 Aug 22 06:06	0 = 3° £ 56'36	18°26'00
evening max el	16109 Aug 23 23:48 16109 Sep 07 16:01	20° £ 15′28	18°05'17	retrograde	16110 Aug 28 16:21	7° £ 22'55	18 20 00
retrograde	16109 Sep 14 01:08	23° <u>•</u> 35'53	10 03 17	evening set	16110 Aug 31 18:18	6° £ 29'48	
evening set	16109 Sep 16 18:02	22° ₽ 57'56		inferior conj	16110 Sep 06 13:24	0° ₽ 56'09	2°09'36
inferior conj	16109 Sep 23 00:09	17° ≏ 40'03	1°20'21	minimum elong	16110 Sep 06 15:43	0° ჲ 49'13	2°08'55
minimum elong	16109 Sep 23 02:08	17° Ω 34'40	1°19'49	mmmum viong	16110 Sep 07 08:08	30°R.M)	2 0000
min. Earth dist.	16109 Sep 25 16:50	14° Ω 46'08	0.63101 AU	min. Earth dist.	16110 Sep 08 16:56	28° m) 22'52	0.65138 AU
desc. node	16109 Sep 27 12:28	12° ≏ 58'56		morning rise	16110 Sep 12 11:49	24° m) 33'10	
morning rise	16109 Sep 29 08:04	11° ≏ 28'02		desc. node	16110 Sep 14 09:49	23° m) 13'03	
direct	16109 Oct 06 00:03	8° ₽ 59'20		direct	16110 Sep 18 22:47	21° m/56'41	
morning max el	16109 Oct 19 23:09	16° ≙ 57'48	27°50'40	morning max el	16110 Oct 02 10:07	29° m/49'30	27°10'24
	16109 Oct 30 19:39	0° M			16110 Oct 02 14:17	0∘ ⊽	
	16109 Nov 18 06:31	0° ∡ ¹			16110 Oct 24 18:24	0° M	
asc. node	16109 Nov 22 00:50	7° ∡ 15'56		morning set	16110 Nov 06 22:37	23° M $_27^{\prime}23$	
morning set	16109 Nov 23 12:07	10° ∡ 12'39		asc. node	16110 Nov 08 21:43	27° M 19'01	
max. Earth dist.	16109 Nov 28 13:02	20° х ⁴44′03	1.31963 AU		16110 Nov 10 05:47	0° ∡ ¹	
				max. Earth dist.	16110 Nov 11 06:08	2° ∡ °03'57	1.33295 AU
superior conj	16109 Dec 01 04:25	26° ₹ 27'43	1°15'42				
minimum elong	16109 Dec 01 02:10	26° ∡ 15'25	1°16'09	superior conj	16110 Nov 15 07:42	10° ∡ ³33'26	0°56'05
	16109 Dec 02 19:06	0°ಕ		minimum elong	16110 Nov 15 05:22	10° ∡ 1'07	0°56'22
evening rise	16109 Dec 07 23:32	11°る21'25		evening rise	16110 Nov 22 10:01	25° ∡ ¹47'09	
	16109 Dec 17 07:17	0° ≈		1 1	16110 Nov 24 09:59	0°る	
desc. node	16109 Dec 24 10:39	11°≈28'06	22051107	desc. node	16110 Dec 11 07:37	28° ろ 09'08	
evening max el	16110 Jan 01 02:03	20°≈33'21	23°51'07		16110 Dec 13 00:55	0°≈ 0°≈ •20!20	22907159
retrograde evening set	16110 Jan 14 13:42 16110 Jan 19 08:07	27°≈14'22 26°≈25'08		evening max el retrograde	16110 Dec 13 12:43 16110 Dec 26 02:50	0°≈29'20 6°≈42'49	22 07 38
min. Earth dist.	16110 Jan 25 13:30	20 ≈23 08 23°≈24'06	0.55257 AU	evening set	16110 Dec 20 02:30 16110 Dec 29 14:31	6°≈15'53	
inferior conj	16110 Jan 27 08:33	23 ≈24 00 22°≈20'18		inferior conj	16111 Jan 07 02:48	0 ≈1333 2°≈24'34	-6°01'36
minimum elong	16110 Jan 27 15:37	22°≈09'50	5°37'23	minimum elong	16111 Jan 07 01:26	2°≈26'29	6°00'54
morning rise	16110 Feb 05 00:43	18° ≈ 24'35	3 31 23	min. Earth dist.	16111 Jan 06 19:00	2°≈35'29	0.54451 AU
direct	16110 Feb 07 12:39	18° ≈ 08'56		mm. Bartii dist.	16111 Jan 11 17:09	30°Ŗ ප	0.5 1 151 110
asc. node	16110 Feb 17 23:13	23°≈05'08		morning rise	16111 Jan 15 13:15	28°る37'19	
morning max el	16110 Feb 18 05:26	23°≈20'00	20°12'40	direct	16111 Jan 18 23:00	28° る 11'35	
<i>5</i>	16110 Feb 23 18:11	0° ∀	-		16111 Jan 25 17:08	0° ≈	
morning set	16110 Mar 08 10:00	22°) 53'24		morning max el	16111 Jan 31 04:24	4°≈06'05	21°44'30
-	16110 Mar 11 21:02	0° Υ		asc. node	16111 Feb 04 20:32	9° ≈ 22'14	
					16111 Feb 17 03:13	0°)	
superior conj	16110 Mar 16 02:30	8° Y 36'34	0°52'25	morning set	16111 Feb 20 19:54	7° ¥ 36′07	
minimum elong	16110 Mar 16 04:57	8° Y 48'54	0°51'59				
max. Earth dist.	16110 Mar 21 20:14	19° Y ′49'21	1.36645 AU	superior conj	16111 Feb 27 23:57	22°) 46′25	1°13'17
desc. node	16110 Mar 22 11:42	21° Y °02'17		minimum elong	16111 Feb 28 02:23	22°) 59′13	1°13'07

16112 Feb 12 04:20

superior conj

7°¥13'28 1°27'44

morning set

16113 Jan 19 19:29

6°≈59'44

superior conj	16113 Jan 26 13:05	21° ≈ 49′28	1°35'57		16114 Jan 08 02:35	0° ≈	
minimum elong	16113 Jan 26 13:59	21° ≈ 54'25	1°36'25				
max. Earth dist.	16113 Jan 28 05:01	25° ≈ 29'25	1.31790 AU	superior conj	16114 Jan 11 00:07	6° ≈ 28'32	1°38'04
	16113 Jan 30 06:45	0°)		minimum elong	16114 Jan 10 23:57	6° ≈ 27'38	1°38'43
evening rise	16113 Feb 02 18:42	7° ∺ 23′28		max. Earth dist.	16114 Jan 11 11:36	7° ≈ 32'47	1.31134 AU
desc. node	16113 Feb 10 01:43	21° ¥ 38′24		evening rise	16114 Jan 17 21:18	21° ≈ 35'11	
	16113 Feb 14 19:34	0° Y			16114 Jan 21 23:24	0° ∀	
evening max el	16113 Mar 07 15:42	28° Y ′04'11	27°35'59	desc. node	16114 Jan 27 22:27	11°) 1 3′55	
	16113 Mar 09 18:49	9° 8			16114 Feb 08 23:33	0 ° Υ	
retrograde	16113 Mar 21 14:30	5° 8 33'11		evening max el	16114 Feb 17 21:56	10° Ƴ 17'30	27°13'37
evening set	16113 Mar 28 10:00	3° 8 16'32		retrograde	16114 Mar 03 22:45	17° Ƴ 36'33	
min. Earth dist.	16113 Apr 01 04:13	0° 8 14'24	0.62410 AU	evening set	16114 Mar 10 14:59	15° Ƴ 39'04	
	16113 Apr 01 10:25	30° ŖƳ		min. Earth dist.	16114 Mar 14 12:16	12° Ƴ 54'55	0.60164 AU
inferior conj	16113 Apr 04 04:03	27° Y ′22'19	-0°45'01	inferior conj	16114 Mar 17 17:24	10° Ƴ 13'10	-2°08'27
minimum elong	16113 Apr 04 05:35	27° Ƴ 18'39	0°44'41	minimum elong	16114 Mar 17 22:13	10° ℃ 03'01	2°06'37
asc. node	16113 Apr 06 12:20	25° Y 12'29		asc. node	16114 Mar 24 09:40	5° Ƴ 44'30	
morning rise	16113 Apr 11 04:09	22° Y 15'35		morning rise	16114 Mar 25 08:56	5° Y 25'35	
direct	16113 Apr 13 10:59	21° Y ′51'33		direct	16114 Mar 27 10:01	5° Ƴ 08'58	
morning max el	16113 Apr 20 02:03	25° Y °12'42	17°46'39	morning max el	16114 Apr 03 17:07	8° Y 47'36	18°00'23
	16113 Apr 24 02:27	0°8			16114 Apr 17 12:11	0°8	
morning set	16113 May 06 01:42	19° 8 42'53		morning set	16114 Apr 19 06:52	3° 8 15'59	
desc. node	16113 May 09 03:01	25° 8 03'46		desc. node	16114 Apr 25 23:49	15° 8 31'40	
	16113 May 11 23:19	$\Pi^{\circ}0$			1		
	·			superior conj	16114 Apr 29 12:58	21° 8 50'30	-0°28'57
superior conj	16113 May 17 21:20	10° Ⅱ 02'29	-1°07'01	minimum elong	16114 Apr 29 10:29	21° 8 39'38	0°29'04
minimum elong	16113 May 17 15:08	9° Ⅱ 36'34	1°06'50		16114 May 04 06:25	Π $^{\circ}0$	
max. Earth dist.	16113 May 24 13:14	20° Ⅲ 56'33	1.44191 AU	max. Earth dist.	16114 May 07 02:12	4° Ⅱ 44'08	1.42396 AU
	16113 May 30 06:38	0 \circ \mathfrak{S}		evening rise	16114 May 12 15:28	13° ∏ 45′27	
evening rise	16113 Jun 01 13:28	3° © 32'37			16114 May 23 05:01	0 \circ \odot	
	16113 Jun 19 10:18	$0^{\circ}\Omega$		evening max el	16114 Jun 14 14:45	29° © 28'26	22°22'10
evening max el	16113 Jul 01 20:50	15° Ω 34'06	21°05'05		16114 Jun 15 03:37	$0^{\circ}\Omega$	
asc. node	16113 Jul 03 10:53	17° Ω 03'34		asc. node	16114 Jun 20 07:48	4° Ω 00′26	
retrograde	16113 Jul 10 10:25	20° Ω 30′50		retrograde	16114 Jun 24 07:57	5° Ω 09'27	
evening set	16113 Jul 14 18:57	18° Ω 45'31		evening set	16114 Jun 29 03:58	3° Ω 07'40	
inferior conj	16113 Jul 20 00:26	12° Ω 34'55	3°08'29		16114 Jul 02 01:30	30° ₹ ∽	
minimum elong	16113 Jul 20 00:35	12° Ω 34'25	3°07'53	inferior conj	16114 Jul 04 10:19	26° © 47'45	3°04'32
min. Earth dist.	16113 Jul 20 10:38	11° Ω 59′29	0.68850 AU	minimum elong	16114 Jul 04 09:31	26° © 50'31	3°03'46
morning rise	16113 Jul 25 05:56	6° Ω 14′23		min. Earth dist.	16114 Jul 04 07:18	26°\$58'14	0.69152 AU
direct	16113 Jul 30 09:49	4° Ω 00'05		morning rise	16114 Jul 09 14:54	20° © 34'20	
desc. node	16113 Aug 05 01:53	6° Ω 06'50		direct	16114 Jul 14 06:32	18° © 37'43	
morning max el	16113 Aug 09 20:01	10° Ω 12'14	23°13'19	desc. node	16114 Jul 22 23:10	23° © 30'51	
	16113 Aug 25 12:30	0° m		morning max el	16114 Jul 23 10:03	23° © 57'41	21°46'18
morning set	16113 Sep 13 07:46	29° Mp 00'21			16114 Jul 28 18:07	0 $^{\circ}$ Ω	
	16113 Sep 13 22:05	0∘ ⊽			16114 Aug 18 21:05	0° ™	
max. Earth dist.	16113 Sep 17 12:24	6° ₾ 06'09	1.39794 AU	morning set	16114 Aug 24 15:04	8° Mp 58'35	
				max. Earth dist.	16114 Aug 30 15:55	18° m 44'53	1.42095 AU
superior conj	16113 Sep 25 07:53	20° Ω 01'57			16114 Sep 06 07:45	0∘ ⊽	
minimum elong	16113 Sep 25 10:38	20° £ 14'36 27° £ 50'37	0°35′39	gunariar agni	16114 San 07 07:52	1° £ 44'41	1912100
asc. node	16113 Sep 29 12:01			superior conj	16114 Sep 07 07:53		
evening rise	16113 Sep 30 15:11 16113 Oct 04 19:02	0°ጤ 7°ጤ59'49		minimum elong asc. node	16114 Sep 07 13:51	2° £ 10'43 17° £ 55'32	1-12-20
evening rise	16113 Oct 04 19:02 16113 Oct 17 10:33	/ 1163949 0° √ 1		evening rise	16114 Sep 16 08:41 16114 Sep 18 04:39	17 = 35 32 21° ⊆ 16'58	
evening max el	16113 Oct 17 10.33	4° ∡ ¹00'17	18°36'37	evening rise	=	0°M	
•	16113 Oct 28 22:16	8° ∡ 06'34	10 30 37	avanina may al	16114 Sep 22 23:42 16114 Oct 04 04:33	16°M40'09	18°09'10
retrograde evening set	16113 Oct 28 22:16 16113 Oct 30 20:45	8 x · 00 34 7° x · 53′18		evening max el retrograde	16114 Oct 04 04.53	20°M18'17	18 09 10
desc. node	16113 Oct 30 20.43	7° × 33 18		evening set	16114 Oct 11 00:34	19°M58'17	
inferior conj	16113 Nov 07 20:24	3° ∡ 26′01	2012/54	desc. node	16114 Oct 18 20:16	16°M45'41	
3		3° ∡ 2001 3° ∡ 36'07		inferior conj	16114 Oct 20 17:12	15°M09'27	0025152
minimum elong min. Earth dist.	16113 Nov 07 15:04 16113 Nov 10 23:57	1° x '36'07	0.57354 AU	minimum elong	16114 Oct 20 17:12 16114 Oct 20 15:56	15°M12'13	-0°35'53 0°34'54
iiiii. Eartii tist.	16113 Nov 10 23:37	30°RM	0.37334 AU	min. Earth dist.	16114 Oct 20 13:30 16114 Oct 23 22:50	12°M19'20	0.59521 AU
morning rise	16113 Nov 12 12.44 16113 Nov 15 06:07	28°M24'36		morning rise	16114 Oct 23 22.30 16114 Oct 27 17:29	9°M33'38	0.37321 AU
direct	16113 Nov 15 06:07	26°M51'12		direct	16114 Oct 27 17:29 16114 Nov 03 06:33	7°M34'42	
direct	16113 Nov 21 09:20 16113 Nov 30 09:13	26°11631°12 0° √ 1		morning max el	16114 Nov 03 06:33 16114 Nov 17 13:05	15°M19'04	270/2122
morning max el	16113 Nov 30 09:13 16113 Dec 05 14:42	4° ∡ 17'39	26°48'20	morning max ei	16114 Nov 17 13:05 16114 Nov 29 11:56	15°11619'04 0° √ 7	4334
morning max ci	16113 Dec 03 14.42 16113 Dec 24 06:35	4 x・1/39	20 70 27	asc. node	16114 Nov 29 11.36 16114 Dec 13 09:15	0 x · 23° x 25'02	
asc. node	16113 Dec 26 12:11	0 0 4° る 01'04		ase. node	16114 Dec 16 17:08	0°る	
morning set	16114 Jan 04 05:28	21°る29'48		morning set	16114 Dec 19 11:48	5° පි 46'03	
500	01 00.20	10				10 03	

superior conj	16114 Dec 26 11:29	21° る 05'22	1°34'10		16115 Dec 08 08:30	ი∘ჳ	
minimum elong	16114 Dec 26 10:19	20°る58'49	1°34'49	max. Earth dist.	16115 Dec 09 00:11	0 3 1° る 25'41	1.31448 AU
max. Earth dist.	16114 Dec 25 19:21	19° る 35'04	1.31013 AU	max. Dartii dist.	10113 BCC 07 00.11	1 023 11	1.51110110
man. Darun dist.	16114 Dec 30 11:16	0° ≈	1.51015110	superior conj	16115 Dec 10 21:19	5° ರ 34'16	1°24'13
evening rise	16115 Jan 02 04:33	5°≈57'00		minimum elong	16115 Dec 10 19:21	5° る 23'25	1°24'45
desc. node	16115 Jan 14 19:14	0°) 18'40		evening rise	16115 Dec 17 14:27	20° පි 23'35	
	16115 Jan 14 14:47	0° \		8 11	16115 Dec 22 04:23	0° ≈	
evening max el	16115 Jan 30 20:46	21°) 38′56	26°16'13	desc. node	16116 Jan 01 16:04	18° ≈ 40'32	
retrograde	16115 Feb 13 20:09	28°) 45'38			16116 Jan 10 08:18	0°) €	
evening set	16115 Feb 20 01:53	27°) 12'46		evening max el	16116 Jan 12 10:57	2° ¥ 08'25	24°49'18
min. Earth dist.	16115 Feb 24 10:01	24° ¥ 35'12	0.57966 AU	retrograde	16116 Jan 26 05:08	9°) €01'12	
inferior conj	16115 Feb 27 12:09	22°) € 20'45	-3°39'10	evening set	16116 Jan 31 15:12	7° ¥ 55'59	
minimum elong	16115 Feb 27 20:25	22°) €05'42	3°36'10	min. Earth dist.	16116 Feb 05 23:01	5° ₩ 08'59	0.56078 AU
morning rise	16115 Mar 07 18:12	17°) 54'44		inferior conj	16116 Feb 08 09:42	3°) 36′14	-5°03'03
direct	16115 Mar 09 17:21	17°) 41'54		minimum elong	16116 Feb 08 18:54	3° ¥ 21'41	5°00'29
asc. node	16115 Mar 11 07:01	17° ¥ 50′27		_	16116 Feb 15 06:20	30° R ≈	
morning max el	16115 Mar 18 01:48	21°) 48′51	18°34'11	morning rise	16116 Feb 17 00:59	29° ≈ 31'20	
	16115 Mar 24 09:27	$0^{\circ}\mathbf{\Upsilon}$		direct	16116 Feb 19 05:05	29° ≈ 18′21	
morning set	16115 Apr 03 00:43	17° Y ′22'54			16116 Feb 22 23:34	0°)	
	16115 Apr 09 14:36	0° 8		asc. node	16116 Feb 26 04:22	1°){ 42'40	
				morning max el	16116 Feb 28 23:51	4°) €03'48	19°30'02
superior conj	16115 Apr 12 01:09	4° 8 34'13	0°06'47		16116 Mar 16 05:03	0 ° Υ	
minimum elong	16115 Apr 12 01:36	4° 8 36'18	0°06'21	morning set	16116 Mar 17 03:06	1° Y 50'16	
behind sun begin	16115 Apr 11 19:05	4° 8 06'01		-			
behind sun end	16115 Apr 12 08:07	5° ႘ 06'30		superior conj	16116 Mar 25 05:22	18° Ƴ 00′03	0°37'29
desc. node	16115 Apr 12 20:32	6° ႘ 03'51		minimum elong	16116 Mar 25 07:26	18° Ƴ 10′07	0°36'58
max. Earth dist.	16115 Apr 19 10:57	17° 8 51'58	1.40230 AU	desc. node	16116 Mar 29 17:13	26° Ƴ 35'53	
evening rise	16115 Apr 23 14:10	24° 8 53'34		max. Earth dist.	16116 Mar 31 16:58	0° 8 16'41	1.37929 AU
-	16115 Apr 26 16:44	Π \circ 0			16116 Mar 31 13:19	0° 8	
	16115 May 16 23:07	0°99		evening rise	16116 Apr 04 09:32	6° 8 53'42	
evening max el	16115 May 28 05:21	13° 5 23'34	23°43'31	_	16116 Apr 18 14:34	Π $\circ 0$	
asc. node	16115 Jun 07 04:47	19° 5 43'26		evening max el	16116 May 09 18:42	27° Ⅱ 18′10	25°02'47
retrograde	16115 Jun 08 02:51	19° 5 47'03			16116 May 12 17:30	0 \circ \odot	
evening set	16115 Jun 13 10:32	17° © 31'05		retrograde	16116 May 21 17:59	4° © 16'20	
min. Earth dist.	16115 Jun 18 03:51	11° 9 59'04	0.68961 AU	asc. node	16116 May 24 01:52	3° 9 53'44	
inferior conj	16115 Jun 18 19:55	11° © 04'05	2°50'09	evening set	16116 May 27 13:01	1° 5 49'54	
minimum elong	16115 Jun 18 18:20	11° © 09'29	2°49'08		16116 May 29 09:34	30° ŖⅡ	
morning rise	16115 Jun 24 02:07	4° 9 59'12		min. Earth dist.	16116 May 31 22:13	26° Ⅱ 54'54	0.68277 AU
direct	16115 Jun 28 05:42	3° 5 22'09		inferior conj	16116 Jun 02 03:18	25° Ⅱ 19'13	2°25'07
morning max el	16115 Jul 06 05:49	7° 9 54'14	20°28'07	minimum elong	16116 Jun 02 01:13	25° Ⅲ 26′05	2°23'54
desc. node	16115 Jul 09 20:22	11° © 52'39		morning rise	16116 Jun 07 13:45	19° Ⅲ 23'56	
	16115 Jul 23 01:39	$0^{\circ}\Omega$		direct	16116 Jun 11 05:50	18° Ⅱ 06'36	
morning set	16115 Aug 04 01:56	18° Ω 06'49		morning max el	16116 Jun 18 08:44	22° 川 01'03	19°23'19
	16115 Aug 11 16:08	0° m)			16116 Jun 25 00:52	0 \circ \odot	
max. Earth dist.	16115 Aug 13 02:09	2° Mp 15'42	1.44012 AU	desc. node	16116 Jun 25 17:29	0° ഇ 56'39	
				greatest brilliancy	16116 Jul 01 00:44	8° 5 31'49	-0.7m
superior conj	16115 Aug 19 09:10	12° m 29'37	-1°46'21	morning set	16116 Jul 13 06:15	27° © 02'34	
minimum elong	16115 Aug 19 17:03	13° m 02'11	1°45'53		16116 Jul 15 04:23	$0^{\circ}\Omega$	
	16115 Aug 29 16:57	0∘ 亚		max. Earth dist.	16116 Jul 25 17:50	16° Ω 24'48	1.45341 AU
evening rise	16115 Aug 31 22:36	3° ჲ 53′10					
asc. node	16115 Sep 03 05:20	7° ≏ 51'23		superior conj	16116 Jul 29 11:37	22° Ω 19′10	-2°08'50
	16115 Sep 17 22:04	0° M .		minimum elong	16116 Jul 29 16:56	22° Ω 40'17	2°09'07
evening max el	16115 Sep 17 18:14	29° ≙ 50'36	18°01'20		16116 Aug 03 06:53	0° m y	
retrograde	16115 Sep 24 06:57	3° M ₁3'58		evening rise	16116 Aug 12 19:39	15° m 35'23	
evening set	16115 Sep 26 18:51	2°M43'35		asc. node	16116 Aug 20 02:01	27° m 33'51	
	16115 Sep 30 20:46	30° ŖΩ			16116 Aug 21 14:22	0∘ ত	
inferior conj	16115 Oct 03 08:50	27° ≏ 35'23	0°43'33	evening max el	16116 Aug 31 09:04	13° ≙ 23′00	18°11'56
minimum elong	16115 Oct 03 10:06	27° ≏ 32'12	0°43'21	retrograde	16116 Sep 06 17:46	16° ≏ 44'41	
desc. node	16115 Oct 05 17:35	25° ≙ 11'48		evening set	16116 Sep 09 14:19	16° ≏ 00'43	
min. Earth dist.	16115 Oct 06 07:42	24° ≏ 37'15	0.61814 AU	inferior conj	16116 Sep 15 15:20	10° ≏ 35'55	1°43'23
morning rise	16115 Oct 09 22:39	21° ≏ 33'28		minimum elong	16116 Sep 15 17:35	10° ≏ 29'32	1°42'45
direct	16115 Oct 16 15:04	19° ₽ 13'36		min. Earth dist.	16116 Sep 18 02:41	7° ≏ 48'43	0.63997 AU
morning max el	16115 Oct 30 18:38	27° ≏ 10'01	27°59'08	morning rise	16116 Sep 21 19:00	4° ≙ 17'53	
	16115 Nov 02 11:25	0° M		desc. node	16116 Sep 21 14:54	4° ≏ 25'58	
	16115 Nov 23 04:44	0° ∡ ¹		direct	16116 Sep 28 09:15	1° ≏ 44'42	
asc. node	16115 Nov 30 06:14	13° ∡ °08'56		morning max el	16116 Oct 12 04:28	9° ≏ 43'18	27°37'18
morning set	16115 Dec 03 12:24	19° ∡ °43′02			16116 Oct 28 02:22	0° M	

	16116 Nov 14 13:11	0° ∡ ¹			16117 Oct 21 09:12	0°M	
morning set	16116 Nov 16 04:52	3° ∡ 15'22		morning set	16117 Oct 21 09:12 16117 Oct 30 10:14	16°M15'50	
asc. node	16116 Nov 16 03:08	3°×1522		asc. node	16117 Nov 02 23:59	23°M13'04	
max. Earth dist.	16116 Nov 20 22:18	12° 🗷 56'59	1.32452 AU	max. Earth dist.	16117 Nov 02 25:55	24°M07'35	1.34019 AU
max. Dartii dist.	101101101 20 22:10	12 % 303)	1.32 132 110	max. Dartii dist.	16117 Nov 06 08:21	0° ⊼	1.5 1015 110
superior conj	16116 Nov 24 03:38	19° ∡ ′50'17	1°08'09		10117 1107 00 00.21	υ <i>γ</i> .	
minimum elong	16116 Nov 24 01:16	19° ∡ ′37'32	1°08'30	superior conj	16117 Nov 08 04:06	3° ∡ ′47′08	0°45'55
g	16116 Nov 28 19:32	0°ਰ	1 00 50	minimum elong	16117 Nov 08 01:58	3° x ⁷ 35'58	0°46'09
evening rise	16116 Dec 01 01:14	4° る 50'49		evening rise	16117 Nov 15 11:02	19° √ 13'59	
<i>8</i> 11	16116 Dec 14 07:23	0° ≈		<i>5</i>	16117 Nov 20 17:27	0°ප	
desc. node	16116 Dec 18 12:58	6° ≈ 04'10		desc. node	16117 Dec 05 09:58	22° る 09'01	
evening max el	16116 Dec 23 20:24	12° ≈ 06'35	23°06'52	evening max el	16117 Dec 05 10:11	22° ろ 09'32	21°26'58
retrograde	16117 Jan 06 01:01	18° ≈ 38'15		retrograde	16117 Dec 17 11:13	28° ට 06'45	
evening set	16117 Jan 10 06:24	17° ≈ 59'33		evening set	16117 Dec 20 10:19	27° る 46'40	
min. Earth dist.	16117 Jan 17 06:34	14° ≈ 43'56	0.54801 AU	inferior conj	16117 Dec 29 02:52	23° る 56'37	-5°52'34
inferior conj	16117 Jan 18 11:44	14° ≈ 02'07	-5°55'42	minimum elong	16117 Dec 28 21:35	24° පි 04'01	5°51'19
minimum elong	16117 Jan 18 15:45	13° ≈ 56′21	5°54'48	min. Earth dist.	16117 Dec 29 11:53	23° る 43'58	0.54382 AU
morning rise	16117 Jan 27 02:26	10° ≈ 11'40		morning rise	16118 Jan 06 09:17	20° る 07'22	
direct	16117 Jan 29 22:14	9° ≈ 52'50		direct	16118 Jan 10 06:09	19° る 34'51	
morning max el	16117 Feb 10 07:39	15° ≈ 23'04	20°49'10	morning max el	16118 Jan 23 00:47	25° る 47'22	22°29'05
asc. node	16117 Feb 12 01:41	17° ≈ 11'54			16118 Jan 26 21:52	0° ≈	
	16117 Feb 20 23:04	0° ∀		asc. node	16118 Jan 29 22:58	4° ≈ 00'03	
morning set	16117 Mar 01 10:59	16° ¥ 29'21			16118 Feb 13 08:06	0° ∀	
	16117 Mar 07 22:49	$0^{\circ}\Upsilon$		morning set	16118 Feb 13 21:57	1°) 13′10	
superior conj	16117 Mar 08 21:33	1° Y ′56'47	1°02'02	superior conj	16118 Feb 20 22:17	16°) 1 4′44	1°20'11
minimum elong	16117 Mar 09 00:06	2° Y ′09'48	1°01'42	minimum elong	16118 Feb 21 00:32	16° ¥ 26'38	1°20'10
max. Earth dist.	16117 Mar 14 01:01	12° Y 13'11	1.35741 AU	max. Earth dist.	16118 Feb 24 15:39	24°) €02'24	1.33857 AU
desc. node	16117 Mar 16 13:53	17° Ƴ 04'13			16118 Feb 27 14:28	0° Y	
evening rise	16117 Mar 17 22:51	19° Ƴ 38'03		evening rise	16118 Mar 01 02:32	2° Υ 57'00	
	16117 Mar 23 18:19	0°8		desc. node	16118 Mar 03 10:34	7° Y ′24'55	
	16117 Apr 12 15:36	0°Щ			16118 Mar 16 15:33	0°8	
evening max el	16117 Apr 22 08:17	11° Ⅱ 09'09	26°12'35	evening max el	16118 Apr 04 22:09	24° 8 48'57	27°05'18
retrograde	16117 May 05 04:20	18° Ⅲ 29'51			16118 Apr 11 08:28	0°Щ	
asc. node	16117 May 10 23:01	16° Ⅲ 19'06		retrograde	16118 Apr 18 08:46	2° Ⅱ 19'45	
evening set	16117 May 11 09:38	15° Ⅱ 57'55		evening set	16118 Apr 24 22:26	29° 8 48'22	
min. Earth dist.	16117 May 15 12:22	11° Ⅱ 38'35	0.67132 AU		16118 Apr 24 16:19	30° ₹ 8	
inferior conj	16117 May 17 06:28	9° Ⅱ 28'27	1°48'43	asc. node	16118 Apr 27 20:13	27° 8 07'23	0.65564.477
minimum elong	16117 May 17 04:20		1°47'25	min. Earth dist.	16118 Apr 28 20:15		0.65564 AU
morning rise	16117 May 22 23:52	3°∏44'01 2°∏44'58		inferior conj	16118 May 01 03:03	23° 8 26'35 23° 8 30'52	
direct	16117 May 26 05:20		10024117	minimum elong	16118 May 01 01:33	_	0-3847
morning max el desc. node	16117 Jun 01 18:29 16117 Jun 12 14:32	6° Ⅱ 14'16 20° Ⅱ 31'29	18°34'16	morning rise direct	16118 May 07 06:15 16118 May 10 02:06	17° 8 54'47 17° 8 11'42	
desc. node	16117 Jun 12 14:32 16117 Jun 18 17:55	20°Щ31729			•	20° 8 28'15	18°02'06
morning set	16117 Jun 18 17.33 16117 Jun 22 23:50	6°\$39'06		morning max el	16118 May 16 09:25 16118 May 23 19:44	20 3 28 13	18 02 00
morning set	16117 Jul 07 22:28	0°Ω		desc. node	16118 May 30 11:32	10° Ⅱ 29'04	
	1011/Jul 0/ 22.28	0 06		morning set	16118 Jun 03 19:26	10 II 2904 17° II 31'27	
superior conj	16117 Jul 08 22:44	1° Ω 34'36	-2°13'35	morning set	16118 Jun 11 12:38	0°95	
minimum elong	16117 Jul 08 20:41	1° Ω 26'37			-0110 Juli 11 12.J0	· •	
max. Earth dist.	16117 Jul 08 12:59	0° Ω 56'36	1.45968 AU	superior conj	16118 Jun 18 10:12	10°957'05	-1°58'23
evening rise	16117 Jul 24 15:44	26° Ω 14'06		minimum elong	16118 Jun 18 02:16	10°925'50	
	16117 Jul 27 00:47	0° m)		max. Earth dist.	16118 Jun 21 09:34		1.45846 AU
greatest brilliancy	16117 Aug 01 09:06	8° Mp 26'10	-0.8m		16118 Jun 30 15:58	0°N	
asc. node	16117 Aug 06 22:44	16° m) 56'47		evening rise	16118 Jul 04 13:09	5° Ω 58'57	
evening max el	16117 Aug 14 21:58	27° m) 08'55	18°40'09	greatest brilliancy	16118 Jul 17 10:06	25° Ω 32'07	-0.7m
C	16117 Aug 18 16:42	0∘ <u>v</u>			16118 Jul 20 11:50	0° m)	
retrograde	16117 Aug 21 11:28	0° ≏ 41'49		asc. node	16118 Jul 24 19:30	5° m 53'16	
=	16117 Aug 24 04:25	30° ₽,™)		evening max el	16118 Jul 29 06:30	11° m) 01'52	19°24'57
evening set	16117 Aug 24 17:20	29° m/41'48		retrograde	16118 Aug 05 09:02	14° m 58'43	
inferior conj	16117 Aug 30 08:51		2°25'24	evening set	16118 Aug 09 00:50	13° m)41'09	
minimum elong	16117 Aug 30 11:03	23° m 55'32		inferior conj	16118 Aug 14 10:09	7° m) 48'30	2°52'07
min. Earth dist.	16117 Sep 01 06:34	21° m/41'29	0.65901 AU	minimum elong	16118 Aug 14 11:44	7° m 43'17	2°51'32
morning rise	16117 Sep 05 03:40	17° m 36'57		min. Earth dist.	16118 Aug 15 17:46	6° Mp 04′29	0.67412 AU
desc. node	16117 Sep 08 12:16	15° m 32'55		morning rise	16118 Aug 19 22:02	1° m 21'59	
direct	16117 Sep 11 11:27	14° m 59'24			16118 Aug 21 18:20	30°R Ω	
morning max el	16117 Sep 24 15:47	22° Mp 46'22	26°44'51	direct	16118 Aug 25 20:12	28° Ω 48'34	
	16117 Oct 01 01:23	0∘ ⊽		desc. node	16118 Aug 26 09:38	28° Ω 49'48	

						_	
	16118 Aug 30 07:35	0° m		morning rise	16119 Aug 03 23:40	15° Ω 24'54	
morning max el	16118 Sep 07 03:00	6° Mp 08′38	25°30'47	direct	16119 Aug 09 10:24	13° Ω 02'24	
	16118 Sep 25 15:15	0∘ ⊽		desc. node	16119 Aug 13 06:59	14° Ω 01'16	
morning set	16118 Oct 13 00:56	28° ≏ 36'45		morning max el	16119 Aug 20 14:01	19° Ω 42'07	24°04'39
	16118 Oct 13 19:16	0° M ₊			16119 Aug 29 08:42	O° m y	
max. Earth dist.	16118 Oct 16 14:38	5° ™ 12'13	1.36066 AU		16119 Sep 18 18:35	0∘ ত	
asc. node	16118 Oct 20 20:47	13°M24'05		morning set	16119 Sep 24 20:49	10° ≙ 08'45	
				max. Earth dist.	16119 Sep 28 13:48	16° ≏ 36'47	1.38410 AU
superior conj	16118 Oct 22 19:58	17° ™ 18'21	0°17'45		•		
minimum elong	16118 Oct 22 18:54	17° ™ 13'02	0°18'03	superior conj	16119 Oct 05 23:41	0°ML15'18	-0°15'33
Č	16118 Oct 29 01:15	0° ∡ ¹		minimum elong	16119 Oct 06 00:45	0°M20'22	0°15'01
evening rise	16118 Oct 30 17:51	3° ∡ ¹28'35		behind sun begin	16119 Oct 05 22:10	0°ML08'03	
8 21	16118 Nov 14 23:22	0°る		behind sun end	16119 Oct 06 03:21	0° M 32'41	
evening max el	16118 Nov 17 12:27	2° る 50'13	20°03'22	ouma san una	16119 Oct 05 20:29	0°M	
desc. node	16118 Nov 22 07:03	6° る 31'32	20 03 22	asc. node	16119 Oct 07 17:33	3°M35'52	
retrograde	16118 Nov 27 23:33	8° ප 03'05		evening rise	16119 Oct 14 19:07	17°M28'10	
evening set	16118 Nov 30 02:49	7°る51'04		evening rise	16119 Oct 21 08:16	0° √	
Č			4950122				19°01'49
inferior conj	16118 Dec 08 21:33	3°る53'08		evening max el	16119 Oct 31 05:10	14° ₹ 21'33	19-01-49
minimum elong	16118 Dec 08 11:33	4°る08'12		retrograde	16119 Nov 09 02:31	18° 7 50'16	
min. Earth dist.	16118 Dec 10 18:06	2° ප් 46'01	0.54909 AU	desc. node	16119 Nov 09 04:11	18° ∡ 50'15	
	16118 Dec 16 04:25	30°₽ ✓		evening set	16119 Nov 10 23:49	18° ⋌ ³38'58	
morning rise	16118 Dec 16 19:22	29° ∡ ¹46′21		inferior conj	16119 Nov 19 08:35	14° ∡ ²23′27	
direct	16118 Dec 21 17:31	28° ∡ 53'37		minimum elong	16119 Nov 19 00:42	14° ∡ ³37'05	3°09'22
	16118 Dec 27 03:40	0°ප		min. Earth dist.	16119 Nov 22 04:51	12° ₹ 25'38	0.56274 AU
morning max el	16119 Jan 04 09:36	5° る 39'52	24°19'12	morning rise	16119 Nov 26 22:54	9° х¹ 43′15	
asc. node	16119 Jan 16 20:14	21° る 49'20		direct	16119 Dec 02 17:02	8° ∡ ¹25'41	
	16119 Jan 21 12:42	0° ≈		morning max el	16119 Dec 16 20:04	15° ∡ ³39'14	26°01'09
morning set	16119 Jan 29 09:56	15° ≈ 55'36			16119 Dec 28 09:23	0° ප	
	16119 Feb 04 20:23	0° ∀		asc. node	16120 Jan 03 17:26	10° る 24'45	
				morning set	16120 Jan 13 21:11	0° ≈ 32'07	
superior conj	16119 Feb 05 04:45	0°){ 45'47	1°31'58		16120 Jan 13 15:13	0° ≈	
minimum elong	16119 Feb 05 06:13	0°) 53'46	1°32'18				
max. Earth dist.	16119 Feb 07 14:02	5°) 56'40	1.32403 AU	superior conj	16120 Jan 20 14:42	15° ≈ 23'57	1°37'35
evening rise	16119 Feb 12 17:15	16°) 41′28		minimum elong	16120 Jan 20 15:10	15° ≈ 26'28	1°38'09
desc. node	16119 Feb 18 07:15	27°) €32'46		max. Earth dist.	16120 Jan 21 18:32	17°≈58'31	1.31443 AU
	16119 Feb 19 15:15	0° Y			16120 Jan 27 07:37	0°) €	
	16119 Mar 11 04:09	0°8		evening rise	16120 Jan 27 16:13	0°) 45′06	
evening max el	16119 Mar 18 10:47	8° 8 04'40	27°33'30	desc. node	16120 Feb 05 03:58	17° ¥ 22'19	
retrograde	16119 Apr 01 06:13	15° 8 35'52	27 33 30	dese. Hode	16120 Feb 12 15:14	0° Υ	
evening set	16119 Apr 08 01:03	13° 8 11'41		evening max el	16120 Feb 28 19:53	20° Υ '43'22	27°30'45
min. Earth dist.	16119 Apr 11 19:46	9° 8 55'30	0.63640 AU	retrograde	16120 Mar 13 19:38	28°Υ′08'38	27 30 43
inferior conj	16119 Apr 14 14:11	7° 8 05'20		-	16120 Mar 20 14:48	25° Υ 59'00	
3	16119 Apr 14 14:17	7° 8 05'06	0°02'58	evening set min. Earth dist.	16120 Mar 24 09:29	23 Υ 39 00 23° Υ 06'03	0.61464 AU
minimum elong	•						
transit middle	16119 Apr 14 14:17	7° 8 05'06	0°02'58	inferior conj	16120 Mar 27 12:29	20° Υ 16'09	
transit begin	16119 Apr 14 11:11	7° 8 13'05		minimum elong	16120 Mar 27 15:18	20° Y ′09'44	1°18'02
transit end	16119 Apr 14 17:22	6° 8 57'08		asc. node	16120 Mar 31 14:47	16° ℃ 53'57	
asc. node	16119 Apr 14 17:30	6° 8 56'48		morning rise	16120 Apr 03 19:05	15°Υ17'30	
morning rise	16119 Apr 21 05:57	1° 8 48'41		direct	16120 Apr 05 23:15	14° Υ ′57'00	
direct	16119 Apr 23 17:16	1° 8 18'33	1504511	morning max el	16120 Apr 12 19:53	18° Y 23'51	17°50'15
morning max el	16119 Apr 30 02:55	4° 8 34'26	17°47'14		16120 Apr 21 06:07	0° 8	
morning set	16119 May 16 17:31	29° 8 38'43		morning set	16120 Apr 28 12:59	12° 8 45'12	
	16119 May 16 22:31	Π °0		desc. node	16120 May 03 05:18	21° 8 06'13	
desc. node	16119 May 17 08:27	0° ∏ 42'20			16120 May 08 07:36	Π °0	
superior conj	16119 May 29 13:27	21° Ⅱ 05′28		superior conj	16120 May 09 15:47	2° Ⅱ 17'42	
minimum elong	16119 May 29 05:28	20° Ⅲ 33′02	1°27'55	minimum elong	16120 May 09 11:10	1° Ⅱ 58′02	0°50'47
max. Earth dist.	16119 Jun 04 05:00	0° 5 09'14	1.44988 AU	max. Earth dist.	16120 May 16 20:31	14° Ⅱ 16′12	1.43486 AU
	16119 Jun 04 02:40	0 \circ \odot		evening rise	16120 May 23 16:22	25° Ⅱ 08'18	
evening rise	16119 Jun 13 23:48	15° © 22'46			16120 May 26 19:46	0 \circ \mathfrak{S}	
	16119 Jun 23 16:36	$0^{\circ}\Omega$			16120 Jun 16 16:29	$0^{\circ}\Omega$	
asc. node	16119 Jul 11 16:19	24° Ω 13'19		evening max el	16120 Jun 24 05:41	8° Ω 49'54	21°36'50
evening max el	16119 Jul 12 09:06	24° Ω 56′09	20°24'48	asc. node	16120 Jun 27 13:11	11° Ω 44'55	
retrograde	16119 Jul 20 08:05	29° Ω 28'31		retrograde	16120 Jul 03 06:45	14° Ω 05'39	
evening set	16119 Jul 24 10:25	27° Ω 53'00		evening set	16120 Jul 07 20:08	12° Ω 12'57	
inferior conj	16119 Jul 29 16:30	21° Ω 48'22	3°05'50	inferior conj	16120 Jul 13 01:40	5° Ω 57'53	3°08'05
minimum elong	16119 Jul 29 17:12	21° Ω 45'59	3°05'16	minimum elong	16120 Jul 13 01:24	5° Ω 58'48	3°07'26
min. Earth dist.	16119 Jul 30 10:19	20° Ω 47'17	0.68467 AU	min. Earth dist.	16120 Jul 13 06:09	5° Ω 42'16	0.69041 AU
Darm dist.	2011/Jul 30 10.19	20 00-7/1/	J.00 10/ AU	mm. Durin dist.	10120 341 13 00.03	5 0 C-72 10	0.07071 AU

	17120 1 1 17 21 10	200-6			16121 1 17 02 26	200514120	
	16120 Jul 17 21:40	30°Rூ		retrograde	16121 Jun 17 03:26	28°544'39	
morning rise	16120 Jul 18 06:29	29° © 40'07		evening set	16121 Jun 22 04:18	26°936'35	
direct	16120 Jul 23 05:02	27° © 33'15		inferior conj	16121 Jun 27 11:40	20° © 13'09	2°59'43
	16120 Jul 29 05:50	$0^{\circ}\Omega$		minimum elong	16121 Jun 27 10:31	20° © 17'09	2°58'52
desc. node	16120 Jul 30 04:19	0° Ω 43'35		min. Earth dist.	16121 Jun 27 03:07	20°542'48	0.69123 AU
morning max el	16120 Aug 02 02:16	3° £ 23′33	22°35'34	morning rise	16121 Jul 02 16:36	14° © 02'58	
	16120 Aug 22 09:56	0° m y		direct	16121 Jul 07 03:00	12° © 14'33	
morning set	16120 Sep 04 18:01	20° m 42'45		morning max el	16121 Jul 15 18:26	17° © 13'50	21°11'38
max. Earth dist.	16120 Sep 09 14:03	28° Mp 43'46	1.40803 AU	desc. node	16121 Jul 17 01:35	18° © 34'31	
	16120 Sep 10 08:03	0∘ 亚			16121 Jul 26 04:51	$0^{\circ}\Omega$	
					16121 Aug 15 11:11	0° m y	
superior conj	16120 Sep 17 11:04	12° ₽ 27'51	-0°52'02	morning set	16121 Aug 15 15:46	0° m) 17'58	
minimum elong	16120 Sep 17 15:12	12° - 46′25	0°51'16	max. Earth dist.	16121 Aug 22 19:55	11° m)44'18	1.42968 AU
asc. node	16120 Sep 23 14:14	23° ₽ 44'20			Č	•	
	16120 Sep 26 22:04	0°M		superior conj	16121 Aug 30 01:51	23° m) 47'26	-1°28'03
evening rise	16120 Sep 27 11:36	1°ML03'54		minimum elong	16121 Aug 30 08:58	24° m 17'43	
evening max el	16120 Oct 13 09:23	26°M39'14	18°22'24	minimum ciong	16121 Sep 02 16:28	0° <u>م</u>	1 2/17
evening max er	16120 Oct 18 04:30	0° √	10 22 24	asc. node	16121 Sep 10 10:54	0 — 13° Ω 46'13	
retrograde	16120 Oct 21 00:36	0° ₹ 32'14		evening rise	16121 Sep 10 15:15	14° £ 05'45	
evening set	16120 Oct 23 00:54	0° ₹ 16'45			16121 Sep 19 18:21	0°M	10000101
	16120 Oct 23 22:48	30°RM.		evening max el	16121 Sep 26 20:53	9°M34'09	18°03'31
desc. node	16120 Oct 26 01:25	29°M00'52		retrograde	16121 Oct 03 16:11	13°M04'09	
inferior conj	16120 Oct 30 17:09	25°M₄40′16		evening set	16121 Oct 05 23:29	12°M40'12	
minimum elong	16120 Oct 30 13:41	25°M47'17	1°28'00	inferior conj	16121 Oct 12 22:28	7°ML43'10	0°00'10
min. Earth dist.	16120 Nov 02 23:00	23°M03'40	0.58238 AU	minimum elong	16121 Oct 12 22:29	7° M 43'07	0°00'34
morning rise	16120 Nov 06 22:59	20°M23'05		transit middle	16121 Oct 12 22:29	7° M 43'07	0°00'34
direct	16120 Nov 13 07:04	18°M38'24		transit begin	16121 Oct 12 19:11	7° ጤ 50'50	
morning max el	16120 Nov 27 13:50	26° M ₊14'01	27°16'37	transit end	16121 Oct 13 01:47	7°M35'23	
	16120 Dec 01 03:28	0° ∡ ¹		desc. node	16121 Oct 12 22:41	7° M ₊42'40	
asc. node	16120 Dec 20 14:33	29° ∡ ³33'36		min. Earth dist.	16121 Oct 16 02:14	4°ML46'52	0.60502 AU
	16120 Dec 20 20:09	0°రె		morning rise	16121 Oct 19 18:21	1° M 55'04	
morning set	16120 Dec 28 05:48	14° る 56'53		Ü	16121 Oct 24 05:01	30° ₽ Ω	
S				direct	16121 Oct 26 09:46	29° £ 46'01	
superior conj	16121 Jan 04 02:05	0° ≈ 02'40	1°37'09		16121 Oct 28 15:43	0° M L	
minimum elong	16121 Jan 04 01:29	29° る 59'17	1°37'49	morning max el	16121 Nov 09 15:28	7°ML36'51	27°54'49
max. Earth dist.	16121 Jan 04 01:55	0°≈01'43	1.31010 AU	morning max er	16121 Nov 26 16:39	0° √	27 31 19
max. Lartii dist.	16121 Jan 04 01:36	0°≈	1.51010710	asc. node	16121 Dec 07 11:37	19° ∡ 106'54	
avanina riaa	16121 Jan 04 01:30	0 ∞ 15°≈01'17			16121 Dec 12 09:56	29° х 00'34	
evening rise	16121 Jan 18 07:09	13 ≈ 0117 0° ∺		morning set		29 x ・03 24	
11.				Double diet	16121 Dec 12 20:19		1 21120 ATT
desc. node	16121 Jan 22 00:41	6°) 45'40 0° Υ		max. Earth dist.	16121 Dec 18 08:41	11° る 58'58	1.31130 AU
	16121 Feb 07 10:08	• •					
evening max el	16121 Feb 09 22:55	2° Y 33'55	26°53'17	superior conj	16121 Dec 19 13:02	14°る36'49	1°30'42
retrograde	16121 Feb 23 23:47	9° Ƴ 48'54		minimum elong	16121 Dec 19 11:30	14° පි 28'14	1°31'18
evening set	16121 Mar 02 12:29	8° Y ′01′05		evening rise	16121 Dec 26 05:35	29° පි 25'31	
min. Earth dist.	16121 Mar 06 12:59	5° Y 21'25			16121 Dec 26 11:58	0° ≈	
inferior conj	16121 Mar 09 18:14	2° Y 48′56		desc. node	16122 Jan 08 21:27	25° ≈ 33'21	
minimum elong	16121 Mar 10 00:37	2° Ƴ 36'18	2°44'15		16122 Jan 11 17:55	0° ∀	
	16121 Mar 13 14:49	30° Ŗ ₩		evening max el	16122 Jan 22 18:03	13°) 32′11	25°42'12
morning rise	16121 Mar 17 16:20	28° ∺ 10'42		retrograde	16122 Feb 05 16:18	20°) 33′24	
asc. node	16121 Mar 18 12:07	28° ₩ 01'14		evening set	16122 Feb 11 14:30	19° ¥ 12′28	
direct	16121 Mar 19 15:51	27° ¥ 56′15		min. Earth dist.	16122 Feb 16 07:00	16°) 32′42	0.57102 AU
	16121 Mar 25 07:22	$0^{\circ}\mathbf{\Upsilon}$		inferior conj	16122 Feb 19 04:05	14°) 34′39	-4°16'55
morning max el	16121 Mar 27 08:44	1° Y '45'42	18°12'16	minimum elong	16122 Feb 19 13:17	14° ¥ 18'53	4°13'51
morning set	16121 Apr 12 00:03	26° Ƴ 33'36		morning rise	16122 Feb 27 15:00	10°) 17'40	
	16121 Apr 13 19:58	0°8		direct	16122 Mar 01 14:59	10°) €05'23	
desc. node	16121 Apr 20 02:04	11° 8 36'09		asc. node	16122 Mar 05 09:29	10° X 51'39	
dese. Hode	10121 Apr 20 02.04	11 03007		morning max el	16122 Mar 10 13:23	14° H 28'13	18°55'08
superior coni	16121 Apr 21 16:36	14° 8 30'28	-0°13'10	morning mux or	16122 Mar 21 05:39	0°Υ	10 23 00
superior conj	•	14° 8 25'36		morning set	16122 Mar 21 05:39 16122 Mar 26 21:55	0° γ 10° Υ 49'54	
minimum elong	16121 Apr 21 15:31		0 13 30	morning set	10122 IVIAI 20 21:33	10 14934	
behind sun begin	16121 Apr 21 11:32	14° 8 07'40		aumani '	16122 4 04 12 02	2700022142	0020122
behind sun end	16121 Apr 21 19:30	14° 8 43'31	1 41 400 4 77	superior conj	16122 Apr 04 12:03	27° Υ 32'42	0°20'32
max. Earth dist.	16121 Apr 29 06:56	27° 8 44'49	1.41498 AU	minimum elong	16122 Apr 04 13:20	27° Y 38'50	0°20'01
	16121 Apr 30 15:10	0°II			16122 Apr 05 19:16	0° 8	
evening rise	16121 May 04 02:42	5° Ⅱ 43'30		desc. node	16122 Apr 06 22:45	2° 8 08'16	
	16121 May 20 00:10	0 \circ \odot		max. Earth dist.	16122 Apr 11 13:47	10° 8 31'58	1.39248 AU
evening max el	16121 Jun 06 21:47	22° 5 44'13	22°56'38	evening rise	16122 Apr 15 10:23	17° 8 14'15	
asc. node	16121 Jun 14 10:06	28° © 12'45			16122 Apr 23 05:13	Π °0	

	16122 May 14 11:29	0°©			16123 Mar 28 19:30	0° ႘	
evening max el	16122 May 14 11:29 16122 May 20 11:44	6° © 39'32	24°18'07		16123 Apr 16 11:30	0°II	
retrograde	16122 May 31 20:49	13°9518'57	24 1007	evening max el	16123 May 03 01:17	0 H 20°H33'59	25°34'09
asc. node	16122 May 31 20.49 16122 Jun 01 07:07	13°9518'10		retrograde	16123 May 15 09:51	20 H33 39 27°H42'28	23 34 09
evening set	16122 Jun 06 09:18	13 9 18 10 10° 9 58' 18		asc. node	16123 May 19 04:13	27 11 42 28 26° 11 44'41	
min. Earth dist.	16122 Jun 10 03:18	5°9541'57	0.68721 AU		16123 May 21 09:30	25° I 13'07	
				evening set	•		0.67947.411
inferior conj	16122 Jun 11 20:33	4°529'21	2°40'53	min. Earth dist.	16123 May 25 15:49	20° Ⅲ 33'35	0.67847 AU
minimum elong	16122 Jun 11 18:43	4°935'34	2°39'47	inferior conj	16123 May 27 02:25	18° Ⅱ 42'35	2°11'10
	16122 Jun 15 11:30	30°RⅡ		minimum elong	16123 May 27 00:15	18° Ⅱ 49'34	2°09'52
morning rise	16122 Jun 17 04:12	28° Ⅱ 28'12		morning rise	16123 Jun 01 15:28	12° Ⅱ 51'45	
direct	16122 Jun 21 02:52	26° Ⅱ 59'25		direct	16123 Jun 05 03:03	11° ∏ 42'14	10000120
	16122 Jun 27 09:05	0°©	10050145	morning max el	16123 Jun 11 22:56	15° Ⅱ 24'01	19°00'29
morning max el	16122 Jun 28 17:01	1°5514'06	19°58'45	desc. node	16123 Jun 20 19:51	26° Ⅲ 33'40	
desc. node	16122 Jul 03 22:45	7° © 15'33			16123 Jun 23 04:24	0° ©	
	16122 Jul 19 19:51	0 ° Ω		greatest brilliancy	16123 Jun 25 01:53	2°5549'42	-0.7m
morning set	16122 Jul 25 21:30	9° Ω 14'14		morning set	16123 Jul 05 05:12	18° © 21'11	
max. Earth dist.	16122 Aug 05 08:40	25° Ω 33'13	1.44660 AU		16123 Jul 12 17:41	$0^{\circ}\Omega$	
	16122 Aug 08 03:35	0° m)		max. Earth dist.	16123 Jul 19 02:37	9° Ω 55'33	1.45704 AU
superior conj	16122 Aug 10 17:09	4° m/08'06	1057'20	superior conj	16123 Jul 21 11:32	13° Ω 38'34	2012/10
minimum elong	16122 Aug 10 17:09 16122 Aug 11 00:39	4° m) 38'30	1°57'29	minimum elong	16123 Jul 21 14:04	13° Ω 48'34	
Č		~	1 3/29	minimum clong	16123 Jul 31 18:42		2 13 31
evening rise	16122 Aug 24 00:55	26° Th 20'19				0° Ту 7° Ту 35'50	
1	16122 Aug 26 04:29	ე₀ ∵		evening rise	16123 Aug 05 11:36	-	
asc. node	16122 Aug 28 07:33	3° ₽ 36'52	10002120	asc. node	16123 Aug 15 04:14	23° m 11'31	
evening max el	16122 Sep 10 11:34	22° ₽ 55'30	18°03'39		16123 Aug 19 17:18	0∘ ʊ	10001110
retrograde	16122 Sep 16 21:15	26° ₽ 16'07		evening max el	16123 Aug 25 01:56	6° £ 34'20	18°21'48
evening set	16122 Sep 19 12:52	25° - 40'11		retrograde	16123 Aug 31 11:31	9° ₽ 59'09	
inferior conj	16122 Sep 25 20:56	20° ₽ 24'39	1°11'13	evening set	16123 Sep 03 12:02	9° ≏ 08'27	
minimum elong	16122 Sep 25 22:46	20° ≏ 19'46	1°10'46	inferior conj	16123 Sep 09 08:33	3° ₽ 36'53	2°03'14
min. Earth dist.	16122 Sep 28 15:17	17° Ω 29'12	0.62778 AU	minimum elong	16123 Sep 09 10:53	3° ₾ 30'01	2°02'32
desc. node	16122 Sep 29 20:01	16° ≏ 18'25		min. Earth dist.	16123 Sep 11 14:06	0° ჲ 59'41	0.64853 AU
morning rise	16122 Oct 02 06:22	14° £ 15'01			16123 Sep 12 11:27	30°R, Mp	
direct	16122 Oct 08 22:40	11° ≏ 48'26		morning rise	16123 Sep 15 08:17	27° m 14'55	
morning max el	16122 Oct 22 22:59	19° ≏ 46'19	27°53'58	desc. node	16123 Sep 16 17:23	26° Mp 15'04	
	16122 Oct 31 17:24	0° M		direct	16123 Sep 21 20:10	24° m 39'07	
	16122 Nov 19 16:13	0° ∡ ¹			16123 Oct 02 16:25	0∘ ত	
asc. node	16122 Nov 24 08:34	8° ∡ 757'17		morning max el	16123 Oct 05 09:48		27°18'16
morning set	16122 Nov 26 07:25	12° ∡ 52′27			16123 Oct 26 00:22	0° M	
max. Earth dist.	16122 Dec 01 11:04	23° х 41'57	1.31812 AU	morning set	16123 Nov 09 19:35	26°M12′03	
				asc. node	16123 Nov 11 05:27	28°M59'08	
superior conj	16122 Dec 03 21:39	29° ∡ '01'07	1°18'10		16123 Nov 11 17:39	0° ∡ ¹	
minimum elong	16122 Dec 03 19:28	28° ∡ ¹49'06	1°18'37	max. Earth dist.	16123 Nov 14 05:41	5° ∡ 105′20	1.33060 AU
	16122 Dec 04 08:23	0°₹					
evening rise	16122 Dec 10 16:06	13° る 53'14		superior conj	16123 Nov 18 01:49	13° ∡ ′09'39	0°59'28
	16122 Dec 18 14:31	0° ≈		minimum elong	16123 Nov 17 23:28	12° ∡ 57′06	0°59'46
desc. node	16122 Dec 26 18:19	13° ≈ 32'33		evening rise	16123 Nov 25 02:46	28° ∡ 19'36	
evening max el	16123 Jan 04 05:42	23° ≈ 45'47	24°06'34		16123 Nov 25 21:39	0°ප	
	16123 Jan 14 04:09	0° ∀			16123 Dec 13 06:46	0° ≈	
retrograde	16123 Jan 17 19:12	0° ∺ 29'55		desc. node	16123 Dec 13 15:16	0° ≈ 25′25	
	16123 Jan 21 11:36	30° R ≈		evening max el	16123 Dec 16 15:39	3° ≈ 40'43	22°22'57
evening set	16123 Jan 22 18:03	29° ≈ 36'37		retrograde	16123 Dec 29 09:58	9° ≈ 59'34	
min. Earth dist.	16123 Jan 28 17:20	26° ≈ 39'57	0.55446 AU	evening set	16124 Jan 02 02:14	9° ≈ 29'49	
inferior conj	16123 Jan 30 16:51	25° ≈ 28'30	-5°30'51	min. Earth dist.	16124 Jan 09 23:09	5° ≈ 56′24	0.54511 AU
minimum elong	16123 Jan 31 00:42	25° ≈ 16'40	5°29'01	inferior conj	16124 Jan 10 12:44	5° ≈ 37'21	-6°02'05
morning rise	16123 Feb 08 09:08	21° ≈ 30'40		minimum elong	16124 Jan 10 12:50	5° ≈ 37'12	6°01'27
direct	16123 Feb 10 18:44	21° ≈ 15'53		morning rise	16124 Jan 19 00:29	1° ≈ 49'56	
asc. node	16123 Feb 20 06:51	25° ≈ 27'11		direct	16124 Jan 22 06:22	1° ≈ 26′17	
morning max el	16123 Feb 21 05:38	26° ≈ 20′03	20°00'51	morning max el	16124 Feb 03 06:53	7° ≈ 14'33	21°29'37
	16123 Feb 24 12:24	0° ∀		asc. node	16124 Feb 07 04:11	11° ≈ 32'15	
morning set	16123 Mar 11 03:02	25° ¥ 23'47			16124 Feb 18 13:10	0° ∀	
	16123 Mar 13 09:07	0° Y		morning set	16124 Feb 23 12:31	10° ¥ 05'51	
superior conj	16123 Mar 18 21:51	11° Y 13'08	0°48'41	superior conj	16124 Mar 01 18:05	25°) €20'01	1°10'30
minimum elong	16123 Mar 19 00:14	11° Y 25'01	0°48'13	minimum elong	16124 Mar 01 20:35	25°) 32′59	1°10'18
desc. node	16123 Mar 24 19:25	22° Y 39'15			16124 Mar 04 00:24	0° Y	
max. Earth dist.	16123 Mar 24 20:33	22° Y '44'33	1.36973 AU	max. Earth dist.	16124 Mar 06 07:15	4° Y 36'32	1.34893 AU
evening rise	16123 Mar 28 13:53	29° Y 34'47		evening rise	16124 Mar 10 09:44	12° Y ′34'37	

desc. node	16124 Mar 10 16:05	13° Y ′04'33			16125 Feb 23 18:37	0° Y	
	16124 Mar 20 05:49	0°B		desc. node	16125 Feb 25 12:45	3° Y ′20′07	
	16124 Apr 10 12:21	0°II			16125 Mar 13 15:03	0° 8	
evening max el	16124 Apr 14 14:57	4° Ⅱ 20'35	26°37'28	evening max el	16125 Mar 28 04:15	17° 8 50'27	27°20'35
retrograde	16124 Apr 27 17:42	11° II 46'51		retrograde	16125 Apr 10 19:26	25° 8 23'16	
evening set asc. node	16124 May 04 03:01 16124 May 05 01:25	9°Ⅱ14'04 8°Ⅱ25'46		evening set min. Earth dist.	16125 Apr 17 11:48	22° 8 53'46	0.64783 AU
min. Earth dist.	16124 May 08 03:23	5° П 09'38	0.66517 AU	asc. node	16125 Apr 21 07:54 16125 Apr 21 22:40	19 8 21 12	0.04/83 AU
inferior conj	16124 May 10 03:04	2° ∏ 47'10	1°29'37	inferior conj	16125 Apr 23 19:58	16° 8 37'19	0°35'04
minimum elong	16124 May 10 03:04	2° I 53'03	1°28'20	minimum elong	16125 Apr 23 19:01	16° 8 39'57	
minimum ciong	16124 May 12 13:32	30°R 8	1 2020	morning rise	16125 Apr 30 04:14	11° 8 11'52	0 3112
morning rise	16124 May 16 00:19	27° 8 08'09		direct	16125 May 02 20:11	10° 8 34'51	
direct	16124 May 19 01:36	26° 8 16'14		morning max el	16125 May 09 03:38	13° 8 49'51	17°53'37
morning max el	16124 May 25 11:14	29° 8 38'20	18°18'33		16125 May 20 16:50	$\Pi^{\circ}0$	
	16124 May 25 20:00	$\Pi^{\circ}0$		desc. node	16125 May 24 13:51	6° Ⅲ 23′02	
desc. node	16124 Jun 06 16:54	16° Ⅱ 18'35		morning set	16125 May 26 16:12	9° Ⅱ 51'54	
morning set	16124 Jun 14 09:02	28° Ⅲ 27'27			16125 Jun 07 23:58	0 \circ 50	
	16124 Jun 15 08:19	0 \circ					
				superior conj	16125 Jun 09 13:12	2° 5 28'31	
superior conj	16124 Jun 29 20:33	22° © 50'38		minimum elong	16125 Jun 09 04:35	1° © 54'11	1°46'53
minimum elong	16124 Jun 29 15:23	22° © 30'28	2°09'57	max. Earth dist.	16125 Jun 13 18:41	9° © 09'29	1.45558 AU
max. Earth dist.	16124 Jun 30 22:52	24°933'12	1.46004 AU	evening rise	16125 Jun 25 11:57	27°5518'15	
	16124 Jul 04 10:48	0°Ω		4 4 1 211	16125 Jun 27 06:17	0° N	0.6
evening rise	16124 Jul 15 21:14	17° Ω 48'55		greatest brilliancy	16125 Jul 09 23:48	19° Ω 04'17	-0.6m
arrantant brillianas	16124 Jul 23 17:14 16124 Jul 25 23:59	0° Mp 3° Mp 30'02	-0.8m	asc. node	16125 Jul 17 23:59 16125 Jul 18 21:44	0° т р 1° т 05'54	
greatest brilliancy asc. node	16124 Jul 23 23:39 16124 Aug 01 00:58	12° M) 24'00	-0.8111	evening max el	16125 Jul 18 21.44 16125 Jul 21 19:09	4° M) 16'28	19°48'48
evening max el	16124 Aug 07 00:38	20° m/23'23	18°57'14	retrograde	16125 Jul 29 05:48	8° m) 27'38	19 40 40
retrograde	16124 Aug 14 07:20	24° m/05'20	10 37 14	evening set	16125 Aug 02 01:54	7° m) 02'37	
evening set	16124 Aug 17 17:18	22° m/58'00		inferior conj	16125 Aug 07 09:29	1° Mp 04'46	2°59'27
inferior conj	16124 Aug 23 05:45	17° m/ 12'33	2°38'28	minimum elong	16125 Aug 07 10:43	1° m/00'38	
minimum elong	16124 Aug 23 07:45	17° mp 06'12	2°37'49		16125 Aug 08 04:44	30°R Ω	
min. Earth dist.	16124 Aug 24 21:25	15° Mp 06'23	0.66587 AU	min. Earth dist.	16125 Aug 08 11:15	29° Ω 38'12	0.67908 AU
morning rise	16124 Aug 28 21:21	10° m 45'48		morning rise	16125 Aug 12 19:03	24° Ω 38'53	
desc. node	16124 Sep 02 14:45	8° m)17'15		direct	16125 Aug 18 12:29	22° Q 09'11	
direct	16124 Sep 04 01:10	8° m 09'16		desc. node	16125 Aug 20 12:08	22° Ω 24'48	
morning max el	16124 Sep 16 21:29	15° m 47'14	26°15'34	morning max el	16125 Aug 30 08:30	29° Ω 14'30	24°55'06
	16124 Sep 28 15:35	0∘ ⊽			16125 Aug 31 02:12	0° ™	
	16124 Oct 17 20:27	0° M ₊			16125 Sep 22 10:36	0∘ ⊽	
morning set	16124 Oct 22 19:18	8°M57'29		morning set	16125 Oct 05 02:30	20° ≏ 58'42	
max. Earth dist.	16124 Oct 26 14:33	16°M12'27	1.34836 AU	max. Earth dist.	16125 Oct 08 15:08	27° Ω 19'43	1.37031 AU
asc. node	16124 Oct 28 02:17	19° M .08'04			16125 Oct 10 01:48	0°ጤ 9°ጤ19'29	
superior conj	16124 Oct 31 23:03	26°M56'46	0°34'40	asc. node	16125 Oct 14 23:01	9-11619-29	
minimum elong	16124 Oct 31 21:15	26°M47'31	0°34'55	superior conj	16125 Oct 15 10:11	10°M14'06	0°04'13
minimum ciong	16124 Nov 02 10:30	0° ⊼ ¹	0 54 55	minimum elong	16125 Oct 15 09:54	10°M12'41	0°04'35
evening rise	16124 Nov 08 11:38	12° ×7 40'14		behind sun begin	16125 Oct 15 03:35	9° M 41'44	0 0133
	16124 Nov 17 08:36	0°ප		behind sun end	16125 Oct 15 16:13	10°M43'42	
evening max el	16124 Nov 27 10:00	13° る 56'49	20°48'52	evening rise	16125 Oct 23 16:23	26° ™ 48'44	
desc. node	16124 Nov 29 12:18	15° පි 50'16		-	16125 Oct 25 06:26	0° ∡ 7	
retrograde	16124 Dec 08 19:58	19° る 36'32		evening max el	16125 Nov 09 18:37	24° ₹ ¹58'55	19°34'30
evening set	16124 Dec 11 08:38	19° る 21'07		desc. node	16125 Nov 16 09:26	29° ₹ 22'12	
inferior conj	16124 Dec 20 03:38	15° る 28'59	-5°32'31	retrograde	16125 Nov 19 13:11	29° ₹ 52'06	
minimum elong	16124 Dec 19 19:24		5°30'19	evening set	16125 Nov 21 12:18	29° ∡ ⁴41'10	
min. Earth dist.	16124 Dec 21 04:37	14° පි 53'09	0.54491 AU	inferior conj	16125 Nov 30 04:08	25° ∡ ³37′01	
morning rise	16124 Dec 28 06:09	11°る34'27		minimum elong	16125 Nov 29 18:26	25° ₹ '52'26	4°07'41
direct	16125 Jan 01 13:52	10°る54'16	00015106	min. Earth dist.	16125 Dec 02 12:43	24° × ⁷ 07'08	0.55400 AU
morning max el	16125 Jan 14 19:38	17°る22'27	23°15'36	morning rise	16125 Dec 07 22:42	21° x 17'00	
asc. node	16125 Jan 24 01:29	28°る48'34		direct	16125 Dec 13 06:11	20° 🗷 13'53	25004124
morning set	16125 Jan 24 20:06 16125 Feb 07 00:10	0° ≈ 24° ≈ 49'45		morning max el	16125 Dec 27 04:02 16125 Dec 29 20:57	27°ズ13'09 0°る	25°04'34
morning set	16125 Feb 07 00:10 16125 Feb 09 09:46	24 ≈ 4943 0° ∺		asc. node	16125 Dec 29 20.37 16126 Jan 10 22:42	0 る 16°る58'50	
	10120100 07 07.40	٠ ٨		abe. 110de	16126 Jan 17 22:50	0°≈	
superior conj	16125 Feb 13 21:37	9° } 44'40	1°25'55	morning set	16126 Jan 22 12:02	9° ≈ 29'53	
minimum elong	16125 Feb 13 23:34	9° ¥ 55'11	1°26'04				
max. Earth dist.	16125 Feb 17 01:00	16° ¥ 25'52	1.33181 AU	superior conj	16126 Jan 29 05:50	24° ≈ 19′27	1°35'06
evening rise	16125 Feb 21 18:31	26° ₩ 05'13		minimum elong	16126 Jan 29 06:53	24° ≈ 25'15	1°35'32
				=			

max. Earth dist.	16126 Jan 31 02:04	28°≈22'22	1.31933 AU	max. Earth dist.	16127 Jan 14 08:18		1.31199 AU
	16126 Jan 31 20:00	0° ∀		evening rise	16127 Jan 20 14:47	24°≈08'18	
evening rise	16126 Feb 05 13:04	9° ¥ 58'41			16127 Jan 23 10:40	0° ∀	
desc. node	16126 Feb 12 09:27	23° ∺ 20′51		desc. node	16127 Jan 30 06:09	13° ∺ 00′10	
	16126 Feb 16 02:50	0° Y			16127 Feb 09 21:10	0° Y	
	16126 Mar 09 18:24	9° 8		evening max el	16127 Feb 20 22:54	13° Y 12'33	27°19'13
evening max el	16126 Mar 10 15:46	0° 8 52'18	27°36'27	retrograde	16127 Mar 06 23:26	20° Ƴ 33'01	
retrograde	16126 Mar 24 13:55	8° 8 22'03		evening set	16127 Mar 13 16:40	18° Ƴ 32'14	
evening set	16126 Mar 31 09:21	6° 8 03'21		min. Earth dist.	16127 Mar 17 13:06	15° Ƴ 46′09	0.60502 AU
min. Earth dist.	16126 Apr 04 03:36	2° 8 57'43	0.62732 AU	inferior conj	16127 Mar 20 17:54	13° Y '01'51	-1°55'09
inferior conj	16126 Apr 07 02:07	0° 8 05'39	-0°33'23	minimum elong	16127 Mar 20 22:10	12° Y 52'40	1°53'32
minimum elong	16126 Apr 07 03:14	0° 8 02'56	0°33'15	asc. node	16127 Mar 26 17:18	8° Ƴ 46'30	
g	16126 Apr 07 04:26	30°RY	0 33 15	morning rise	16127 Mar 28 07:05	8° Υ 11'14	
asc. node	16126 Apr 08 19:58	28° Y 25'49		direct	16127 Mar 30 08:56	7° Υ 53'41	
morning rise	16126 Apr 13 23:58	24°Y56'10		morning max el	16127 Apr 06 12:56	11° Υ 28'49	17°57'08
direct	-	24°Υ30'39		morning max ci	_	0° 8	17 37 08
	16126 Apr 16 07:55		17046112	. ,	16127 Apr 18 21:11	_	
morning max el	16126 Apr 22 21:19	27° Y 50′10	17°46'13	morning set	16127 Apr 22 03:00	5° 8 53'29	
_	16126 Apr 24 21:03	0°8		desc. node	16127 Apr 28 07:32	17° 8 08'10	
morning set	16126 May 09 00:11	22° 8 26'53					
desc. node	16126 May 11 10:44	26° 8 41'23		superior conj	16127 May 02 14:12	24° 8 42'15	-0°34'40
	16126 May 13 08:41	Π °0		minimum elong	16127 May 02 11:11	24° 8 29'06	0°34'44
					16127 May 05 15:57	$\Pi^{\circ}0$	
superior conj	16126 May 21 01:58	13° Ⅱ 03'29	-1°12'43	max. Earth dist.	16127 May 10 02:12	7° Ⅱ 25'13	1.42693 AU
minimum elong	16126 May 20 19:14	12° Ⅲ 35'34	1°12'30	evening rise	16127 May 15 22:30	16° Ⅱ 51'52	
max. Earth dist.	16126 May 27 12:20	23° Ⅲ 31'36	1.44418 AU		16127 May 24 11:04	0°ಅ	
	16126 May 31 14:26	0°9			16127 Jun 15 14:05	$0^{\circ}\Omega$	
evening rise	16126 Jun 04 23:12	6°5946'47		evening max el	16127 Jun 17 13:44	2°Ω05'02	22°10'10
evening rise	16126 Jun 20 13:30	0°Ω		asc. node	16127 Jun 22 15:28	6° Ω 13'41	22 10 10
evening max el	16126 Jul 04 19:12	18° Ω 10'59	20°54'17	retrograde	16127 Jun 27 02:37	7°Ω39'20	
•			20 3417	•			
asc. node	16126 Jul 05 18:34	19° Ω 07'11		evening set	16127 Jul 01 20:57	5° Ω 39'44	
retrograde	16126 Jul 13 04:46	23° Ω 00'57			16127 Jul 06 15:49	30°Rூ	
evening set	16126 Jul 17 11:43	21°Ω18'10		inferior conj	16127 Jul 07 03:00	29° © 21'01	3°05'45
inferior conj	16126 Jul 22 17:17	15° Ω 09'09	3°08'06	minimum elong	16127 Jul 07 02:21	29° © 23'18	3°05'03
minimum elong	16126 Jul 22 17:34	15° Ω 08'10	3°07'31	min. Earth dist.	16127 Jul 07 01:55	29° © 24'50	0.69144 AU
min. Earth dist.	16126 Jul 23 05:28	14° Ω 26'58	0.68771 AU	morning rise	16127 Jul 12 07:36	23° 5 06'31	
morning rise	16126 Jul 27 23:09	8° Ω 47'49		direct	16127 Jul 17 01:02	21° © 07'12	
direct	16126 Aug 02 04:51	6° Ω 31'13		desc. node	16127 Jul 25 06:45	25° © 31'15	
desc. node	16126 Aug 07 09:28	8° Ω 17'40		morning max el	16127 Jul 26 09:01	26°534'46	21°58'49
morning max el	16126 Aug 12 19:31	12° Ω 50′27	23°26'33		16127 Jul 29 12:46	$0^{\circ}\Omega$	
Ü	16126 Aug 26 15:27	0° m/			16127 Aug 20 03:43	0° m)	
	16126 Sep 15 06:45	0∘ ⊽		morning set	16127 Aug 27 23:54	12° m) 13'25	
morning set	16126 Sep 16 13:01	° - 2° - 06'07		max. Earth dist.	16127 Sep 02 16:28	21°m/29'21	1.41772 AU
max. Earth dist.	16126 Sep 20 13:42	2 = 0007 8° ⊆ 58'19	1.39439 AU	max. Earm dist.	16127 Sep 02 10:28	0° ⊽	1.41//2 AU
max. Earm dist.	10120 Sep 20 13.42	8 = 38 19	1.39439 AU		1012/ Sep 0/ 1/.1/	0 ==	
	161266 20 07 20	220 0 52111	0020146		16127 0 10 10 22	40 0 42140	1007140
superior conj	16126 Sep 28 07:28	22° £ 53'11		superior conj	16127 Sep 10 10:33	4° Ω 43'49	
minimum elong	16126 Sep 28 09:45	23° Ω 03'46	0°30'09	minimum elong	16127 Sep 10 16:04	5° ₾ 08'02	1°06'52
asc. node	16126 Oct 01 19:44	29° Ω 30'00		asc. node	16127 Sep 18 16:24	19° ≏ 35'57	
	16126 Oct 02 02:01	0°M₊		evening rise	16127 Sep 21 01:49	24° ≏ 00'53	
evening rise	16126 Oct 07 14:17	10° ™ 38'33			16127 Sep 24 07:55	0° M	
	16126 Oct 18 08:17	0° ∡ 7		evening max el	16127 Oct 07 00:33	19° M 24'58	18°11'57
evening max el	16126 Oct 23 16:45	6° ∡ 750'47	18°42'28	retrograde	16127 Oct 14 05:55	23°M06'40	
retrograde	16126 Oct 31 23:50	11° ∡ 02'26		evening set	16127 Oct 16 09:00	22°M47'58	
evening set	16126 Nov 02 21:52	10° ∡ ¹49'46		desc. node	16127 Oct 21 03:49	20°M09'38	
desc. node	16126 Nov 03 06:35	10° ∡ ¹44'37		inferior conj	16127 Oct 23 17:42	18°M02'10	-0°49'36
inferior conj	16126 Nov 11 00:00	6° ₹ 25'32	-2°28'31	minimum elong	16127 Oct 23 15:54	18° M .06'01	0°48'21
minimum elong	16126 Nov 10 17:59	6° х 36′39	2°25'31	min. Earth dist.	16127 Oct 26 23:38	15°M14'59	0.59179 AU
min. Earth dist.	16126 Nov 14 02:06	4° ∡ °09′20	0.57060 AU	morning rise	16127 Oct 30 19:26	12°M30'54	0.57177710
			0.57000 AU	=			
morning rise	16126 Nov 18 10:58	1°×729'44		direct	16127 Nov 06 07:22	10°M35'39	27927154
direct	16126 Nov 24 12:07	0° ₹ 00′28	2.602511.5	morning max el	16127 Nov 20 14:11	18°M17'53	27°37'54
morning max el	16126 Dec 08 16:55	7° ∡ ¹23'27	26°37'15		16127 Nov 30 10:22	0° ∡ 7	
	16126 Dec 25 12:29	0°る		asc. node	16127 Dec 15 16:55	25° х 09'48	
asc. node	16126 Dec 28 19:51	5° る 49'28			16127 Dec 18 04:18	8°0	
morning set	16127 Jan 06 22:22	24° る 01'31		morning set	16127 Dec 22 05:21	8° පි 20'18	
	16127 Jan 09 16:03	0° ≈		max. Earth dist.	16127 Dec 28 16:08	22° る 29'07	1.30995 AU
superior conj	16127 Jan 13 16:36	8° ≈ 58'10	1°38'09	superior conj	16127 Dec 29 04:01	23° る 35'40	1°35'10
minimum elong	16127 Jan 13 16:36	8° ≈ 58'10		minimum elong	16127 Dec 29 03:00	23° る 29'55	1°35'49
	1012, 3411 13 10.30	5.4.5010	1 30 10	ciong	1012, 1000 27 03.00		

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	16128 Jan 01 00:44	0° ≈		max. Earth dist.	16128 Dec 10 21:33	4° පි 21'09	1.31343 AU
evening rise	16128 Jan 04 21:26	8°≈28'51			17120 D 12 14 12	00=05144	1926100
desc. node	16128 Jan 15 20:40 16128 Jan 17 02:53	0° 		superior conj	16128 Dec 12 14:12 16128 Dec 12 12:20	8°る05'44 7°る55'26	1°26'08 1°26'41
		24°) (41'18	26°26'48	minimum elong		22° る 54'29	1-2041
evening max el	16128 Feb 02 22:47 16128 Feb 10 02:06	24°π4118 0° Υ	20-2048	evening rise	16128 Dec 19 07:02 16128 Dec 22 15:25	0° ≈	
retrograde	16128 Feb 16 02:32	0 1 1° Υ 50'13		desc. node	16128 Dec 22 13.23 16129 Jan 02 23:42	0 ≈ 20°≈38'54	
evening set	16128 Feb 16 22.32 16128 Feb 23 06:27	0° Υ 13'14		desc. Hode	16129 Jan 09 17:22	20 ≈ 36 34 0° ∺	
evening set	16128 Feb 23 16:48	0 11314 30°R ∺		evening max el	16129 Jan 14 14:07	5° ₩ 17'17	25003130
min. Earth dist.	16128 Feb 27 12:11	*	0.58283 AU	retrograde	16129 Jan 28 09:42	12° ¥ 12'41	23 03 39
inferior conj	16128 Mar 01 15:34	25°\(\frac{1}{35}\)		evening set	16129 Feb 02 23:09	11°\(\)(3'23	
minimum elong	16128 Mar 01 23:23	25° X 13'36		min. Earth dist.	16129 Feb 08 02:25	8°) 18'48	0.56325 AU
morning rise	16128 Mar 09 19:43	20°\(\frac{1}{46}\)'52	3 22 32	inferior conj	16129 Feb 10 16:17	6° ¥ 39'04	
direct	16128 Mar 11 18:47	20° X 33'44		minimum elong	16129 Feb 11 01:40	6° ¥ 23'56	
asc. node	16128 Mar 12 14:38	20°\(\frac{7}{35}\) 44		morning rise	16129 Feb 19 06:46	2° X 31'14	4 40 30
morning max el	16128 Mar 19 22:50	24° X 35'36	18°27'48	direct	16129 Feb 21 09:23	2°) 18'39	
morning mun er	16128 Mar 24 09:50	0°Υ	10 27 .0	asc. node	16129 Feb 27 11:59	4° ¥ 12'04	
morning set	16128 Apr 04 19:11	19° Y ′55'31		morning max el	16129 Mar 02 22:47	6° ¥ 58'04	19°20'15
morning sec	16128 Apr 10 01:46	0°8		morning man vi	16129 Mar 17 15:56	0° Υ	19 20 10
	1012011p1 10 01.10	• •		morning set	16129 Mar 19 20:31	4° Υ 20'10	
superior conj	16128 Apr 13 23:33	7° 8 17'54	0°01'39			=	
minimum elong	16128 Apr 13 23:39	7° 8 18'20	0°01'15	superior conj	16129 Mar 28 01:40	20° Ƴ 38'01	0°33'12
behind sun begin	16128 Apr 13 16:29	6° 8 45'21		minimum elong	16129 Mar 28 03:33	20° Ƴ 47'13	0°32'40
behind sun end	16128 Apr 14 06:48	7° 8 51'14		desc. node	16129 Apr 01 00:57	28° Y °11'39	
desc. node	16128 Apr 14 04:18	7° 8 39'44			16129 Apr 02 00:17	0°8	
max. Earth dist.	16128 Apr 21 11:15	20° 8 37'49	1.40566 AU	max. Earth dist.	16129 Apr 03 17:13	3° 8 07'21	1.38268 AU
evening rise	16128 Apr 25 17:53	27° 8 50'44		evening rise	16129 Apr 07 10:20	9° 8 43'28	
C	16128 Apr 27 01:19	$\Pi^{\circ}0$		C	16129 Apr 19 20:37	Π°	
	16128 May 17 00:38	0 \circ \mathfrak{S}		evening max el	16129 May 12 18:01	29° Ⅲ 54′00	24°51'29
evening max el	16128 May 30 04:34	15° © 59'13	23°31'22		16129 May 12 20:27	0°99	
asc. node	16128 Jun 08 12:26	22° © 08'43		retrograde	16129 May 24 13:54	6°9547'56	
retrograde	16128 Jun 09 22:02	22°5517'08		asc. node	16129 May 26 09:30	6° © 34'05	
evening set	16128 Jun 15 03:59	20° © 03'00		evening set	16129 May 30 07:12	4° © 22'52	
min. Earth dist.	16128 Jun 19 22:37	14° © 25'23	0.69018 AU		16129 Jun 03 05:58	30°RⅡ	
inferior conj	16128 Jun 20 12:45	13° © 36'45	2°52'59	min. Earth dist.	16129 Jun 03 17:31	29° Ⅲ 22′18	0.68404 AU
minimum elong	16128 Jun 20 11:17	13° 5 641'49	2°52'02	inferior conj	16129 Jun 04 20:39	27° Ⅱ 52'24	2°29'40
morning rise	16128 Jun 25 18:34	7° 5 30'29		minimum elong	16129 Jun 04 18:37	27° Ⅱ 59'09	2°28'28
direct	16128 Jun 29 23:51	5° © 50'35		morning rise	16129 Jun 10 06:16	21° Ⅱ 55'29	
morning max el	16128 Jul 08 03:49	10° © 29'29	20°39'00	direct	16129 Jun 14 00:01	20° Ⅲ 35′14	
desc. node	16128 Jul 11 03:59	13° © 45'11		morning max el	16129 Jun 21 05:39	24° ∏ 34'45	19°32'00
	16128 Jul 23 06:19	0 \circ Ω			16129 Jun 25 23:21	0 \circ	
morning set	16128 Aug 06 13:16	21° Ω 27'41		desc. node	16129 Jun 28 01:09	2° 5 43'35	
	16128 Aug 12 00:14	0° ™		greatest brilliancy	16129 Jul 03 22:36	11° 5 04'36	-0.6m
max. Earth dist.	16128 Aug 15 01:35	4° m 52′30	1.43757 AU		16129 Jul 16 11:38	0 \circ Ω	
				morning set	16129 Jul 16 17:19	0° Ω 21'47	
superior conj	16128 Aug 21 15:24	15° Tp 37'32		max. Earth dist.	16129 Jul 28 16:26	18° Ω 56′23	1.45184 AU
minimum elong	16128 Aug 21 23:12	16° m 10'01	1°41'17				
	16128 Aug 30 02:02	0∘ ⊽		superior conj	16129 Aug 01 21:03	25° Ω 34'51	
evening rise	16128 Sep 02 22:30	6° ₽ 44'08		minimum elong	16129 Aug 02 03:09	25° Ω 59'08	2°06'36
asc. node	16128 Sep 04 13:04	9° Ω 33'21			16129 Aug 04 15:15	0° m)	
	16128 Sep 17 07:45	0°M	10001117	evening rise	16129 Aug 15 23:00	18° Mp 35'10	
evening max el	16128 Sep 19 13:46	2°M31'23	18°01'17	asc. node	16129 Aug 22 09:45	29° m 18'08	
retrograde	16128 Sep 26 03:57	5°M56'10		. 1	16129 Aug 22 19:58	0° ⊽	10000114
evening set	16128 Sep 28 14:34	5°M27'38	0022145	evening max el	16129 Sep 03 04:44	16° £ 01'25	18°09'14
inferior conj	16128 Oct 05 06:48	0°M22'16		retrograde	16129 Sep 09 13:24	19° ♀ 22'22	
minimum elong	16128 Oct 05 07:47	0°ጤ19'49	0°32'42	evening set	16129 Sep 12 08:39	18° ≏ 40'36	1925120
daga rada	16128 Oct 05 15:44	30° ₹ Ω		inferior conj	16129 Sep 18 11:24	13° £ 18'14	
desc. node min. Earth dist.	16128 Oct 07 01:08 16128 Oct 08 07:07	28° £ 36'42 27° £ 23'52	0.61472 ATT	minimum elong min. Earth dist.	16129 Sep 18 13:34	13° £ 12'10	0.63691 AU
		27° ± 23′52 24° £ 23′29	0.61473 AU		16129 Sep 21 00:40	7° £ 28'19	0.03091 AU
morning rise direct	16128 Oct 11 22:10 16128 Oct 18 14:28	24° ± 23′29 22° £ 06′08		desc. node morning rise	16129 Sep 23 22:29 16129 Sep 24 16:31	7° 2 238'32	
uncci	16128 Oct 18 14:28 16128 Nov 01 18:11	0°M		direct	16129 Sep 24 16:31 16129 Oct 01 07:31	4° £ 30'11	
morning max el	16128 Nov 01 18:11 16128 Nov 01 18:52	0°ML01'42	27°50'17	morning max el	16129 Oct 01 07:31 16129 Oct 15 04:12	12° £ 29'07	27°42'35
morning max er	16128 Nov 01 18:52 16128 Nov 23 12:12	0°11に01°42 0° ズ	41 3711	morning max ei	16129 Oct 13 04:12 16129 Oct 29 04:55	0°M	21 7233
asc. node	16128 Nov 23 12.12 16128 Dec 01 13:56	14° ∡ 750'49			16129 Nov 16 00:12	0° ⊼ ¹	
morning set	16128 Dec 01 15.50	22° × ⁷ 20'10		asc. node	16129 Nov 18 10:52	4° ∡ ¹46'38	
morning set	16128 Dec 03 00.37	22 メ ・2010		morning set	16129 Nov 19 10:32	5° ₹ 56'13	
	10120 100 00 21.42	ÿ)		morning soc	10127 1101 17 00.47	2 7 30 13	

max. Earth dist.	16129 Nov 23 20:46	15° ₹ 54'40	1.32269 AU	max. Earth dist.	16130 Nov 06 10:59 16130 Nov 07 20:46	27° ™ .08′23 0°⊀	1.33755 AU
superior conj	16129 Nov 26 21:12	22° ∡ ¹23'52	1°10'59				
minimum elong	16129 Nov 26 18:53	22° ∡ 11'13	1°11'23	superior conj	16130 Nov 10 22:46	6° ∡ ¹24'11	0°49'41
	16129 Nov 30 08:41	ರ°0		minimum elong	16130 Nov 10 20:33	6° ∡ 12'31	0°49'57
evening rise	16129 Dec 03 17:50	7° る 21'38		evening rise	16130 Nov 18 03:58	21° ∡ ¹46′01	
	16129 Dec 15 09:47	0° ≈			16130 Nov 22 03:23	8°0	
desc. node	16129 Dec 20 20:36	8° ≈ 12'02		desc. node	16130 Dec 07 17:35	24° る 30'27	
evening max el	16129 Dec 26 23:54	15° ≈ 18′06	23°22'23	evening max el	16130 Dec 08 12:29	25° る 18'13	21°41'02
retrograde	16130 Jan 09 07:21	21° ≈ 53′16			16130 Dec 14 23:08	0° ≈	
evening set	16130 Jan 13 17:19	21° ≈ 11′04		retrograde	16130 Dec 20 18:15	1° ≈ 21'15	
min. Earth dist.	16130 Jan 20 10:42	18° ≈ 00'54	0.54939 AU	evening set	16130 Dec 23 21:39	0° ≈ 58'57	
inferior conj	16130 Jan 21 20:52	17° ≈ 11'25	-5°50'55		16130 Dec 26 22:10	30°Ŗる	
minimum elong	16130 Jan 22 02:06	17° ≈ 03'50	5°49'48	inferior conj	16131 Jan 01 12:51	27° る 08'54	-5°57'08
morning rise	16130 Jan 30 12:17	13° ≈ 19′16		minimum elong	16131 Jan 01 08:53	27° る 14'27	5°56'08
direct	16130 Feb 02 05:02	13° ≈ 01'43		min. Earth dist.	16131 Jan 01 16:03	27° る 04'26	0.54384 AU
morning max el	16130 Feb 13 08:48	18° ≈ 25′28	20°35'58	morning rise	16131 Jan 09 20:42	23° る 20'45	
asc. node	16130 Feb 14 09:21	19° ≈ 27'24		direct	16131 Jan 13 13:41	22° る 50'44	
	16130 Feb 22 03:48	0°) €		morning max el	16131 Jan 26 03:53	28° る 57'07	22°13'15
morning set	16130 Mar 04 03:46	18° ¥ 57'57			16131 Jan 27 05:13	0° ≈	
	16130 Mar 09 11:30	0° Υ		asc. node	16131 Feb 01 06:40	6° ≈ 05'03	
					16131 Feb 14 20:06	0° ∀	
superior conj	16130 Mar 11 16:19	4° Ƴ 30'38	0°58'42	morning set	16131 Feb 16 14:27	3°) 41′48	
minimum elong	16130 Mar 11 18:51	4° Υ 43'29	0°58'20				
max. Earth dist.	16130 Mar 17 00:47	15° Y 07′12	1.36050 AU	superior conj	16131 Feb 23 16:00	18° ∺ 46′09	1°17'49
desc. node	16130 Mar 18 21:37	18° Ƴ 40'38		minimum elong	16131 Feb 23 18:19	18° ¥ 58′27	1°17'45
evening rise	16130 Mar 20 21:14	22° Y 22'01		max. Earth dist.	16131 Feb 27 14:28	26° ¥ 57′26	1.34113 AU
	16130 Mar 25 03:40	$0^{\circ}S$			16131 Mar 01 02:36	0° Y	
	16130 Apr 13 15:16	Π $^{\circ}0$		evening rise	16131 Mar 03 23:02	5° Ƴ 36'34	
evening max el	16130 Apr 25 07:39	13° Ⅱ 46′23	26°03'11	desc. node	16131 Mar 05 18:16	9° Y 02'40	
retrograde	16130 May 08 00:59	21° Ⅱ 04'17			16131 Mar 17 21:19	0° 8	
asc. node	16130 May 13 06:40	19° Ⅱ 15'41		evening max el	16131 Apr 07 21:36	27° 8 28'42	26°58'48
evening set	16130 May 14 04:50	18° Ⅱ 32'58			16131 Apr 10 16:22	Π °0	
min. Earth dist.	16130 May 18 08:30	14° Ⅱ 08'22	0.67330 AU	retrograde	16131 Apr 21 06:16	4° ∏ 58'21	
inferior conj	16130 May 20 00:37	12° Ⅱ 03'02	1°55'06	evening set	16131 Apr 27 18:55	2° Ⅱ 26'26	
minimum elong	16130 May 19 22:27	12° Ⅱ 09'49	1°53'46	asc. node	16131 Apr 30 03:52	0° Ⅱ 16'55	
morning rise	16130 May 25 16:48	6° Ⅱ 16'47			16131 Apr 30 10:25	30° ₹8	
direct	16130 May 28 23:50	5° Ⅱ 15'03		min. Earth dist.	16131 May 01 17:22	28° 8 35'51	0.65827 AU
morning max el	16130 Jun 04 14:27	8° Ⅱ 47'11	18°40'30	inferior conj	16131 May 03 22:20	26° 8 03'11	1°08'13
desc. node	16130 Jun 14 22:15	22° Ⅱ 14'19		minimum elong	16131 May 03 20:41	26° 8 07'58	1°07'03
	16130 Jun 20 00:25	0ං වෙ		morning rise	16131 May 09 23:54	20° 8 29'24	
morning set	16130 Jun 26 07:51	9°549'12		direct	16131 May 12 21:10	19° 8 44'02	
	16130 Jul 09 06:29	0 $^{\circ}\Omega$		morning max el	16131 May 19 04:46	23° 8 01'31	18°05'48
max. Earth dist.	16130 Jul 11 11:20	3° Ω 26′00	1.45925 AU		16131 May 24 21:36	0°II	
		_		desc. node	16131 Jun 01 19:15	12° Ⅱ 08'50	
superior conj	16130 Jul 12 09:36	4° £ 52′53		morning set	16131 Jun 06 23:19	20° Ⅱ 29'34	
minimum elong	16130 Jul 12 08:47	4°Ω49'40	2°14'49		16131 Jun 12 21:00	0 \circ	
evening rise	16130 Jul 27 22:52	29° Ω 23'09			16101 7 01 10 50		2001150
	16130 Jul 28 08:08	0° Mp	0.0	superior conj	16131 Jun 21 19:53	14°9511'05	
greatest brilliancy	16130 Aug 03 13:19	9° m 53'18	-0.9m	minimum elong	16131 Jun 21 12:28	13°9541'59	
asc. node	16130 Aug 09 06:27	18° m) 44'15		max. Earth dist.	16131 Jun 24 08:07	18° 5 06'49	1.45917 AU
	16130 Aug 17 23:58	0∘ ⊽	10024152		16131 Jul 01 23:40	0° N	
evening max el	16130 Aug 17 18:08	29° m 45'50	18°34'53	evening rise	16131 Jul 07 23:09	9° Ω 14'20	0.7
retrograde	16130 Aug 24 06:18	3° △ 16′04		greatest brilliancy	16131 Jul 20 03:47	27° Ω 50'49	-0.7m
evening set	16130 Aug 27 10:48	2° ₾ 18'30		asa mada	16131 Jul 21 14:44 16131 Jul 27 03:12	0° т) 7° т)44'54	
inforior coni	16130 Aug 30 06:04	30°RM)	2020102	asc. node			10017115
inferior conj	16130 Sep 02 03:30 16130 Sep 02 05:46	26° Mp 41'05	2°20'02 2°19'21	evening max el	16131 Aug 01 03:24	13° My 37'33 17° My 30'05	19°17'15
minimum elong min. Earth dist.	16130 Sep 02 03:46 16130 Sep 04 03:17	26° Mp 34'11 24° Mp 15'40	0.65644 AU	retrograde evening set	16131 Aug 08 03:28 16131 Aug 11 17:47	1/° 11/030'05 16° 11/01/15'06	
	16130 Sep 04 03:17 16130 Sep 07 23:34	20° Mp 16'27	0.030 44 AU	inferior conj	16131 Aug 11 17:47 16131 Aug 17 03:48	10° Mp 24'12	2°48'56
morning rise desc. node	16130 Sep 07 23:34 16130 Sep 10 19:53	18° M) 26'07		minimum elong	16131 Aug 17 05:48 16131 Aug 17 05:30	10° mg 18'38	2°48'36 2°48'19
desc. node direct	=	-		minimum elong min. Earth dist.	•	-	0.67215 AU
morning max el	16130 Sep 14 08:34 16130 Sep 27 15:23	17° m 39'05 25° m 28'13	26°54'13	min. Earth dist. morning rise	16131 Aug 18 13:28 16131 Aug 22 16:36	8° m/34'20 3° m/57'32	0.07213 AU
morning max er	16130 Sep 27 15:23 16130 Oct 01 19:08	0° ∿	20 5415	direct	16131 Aug 22 16:36 16131 Aug 28 16:15	1° Mp 23'12	
	16130 Oct 01 19:08 16130 Oct 22 17:06	0° M		desc. node	16131 Aug 28 16:15 16131 Aug 28 17:17	1° my 23'12	
morning set	16130 Oct 22 17:06 16130 Nov 02 08:05	บาแน 19° M t01'55		morning max el	16131 Aug 28 17:17 16131 Sep 10 02:44	8° Mp 48'08	25°42'50
asc. node	16130 Nov 02 08.03	24°M51'56		morning max ci	16131 Sep 10 02.44 16131 Sep 26 19:29	ე∘ <u>ი</u>	23 72 JU
ase. Houc	101501101 05 07.44	27 HUJI JU			10151 Sep 20 19.29	· –	

16133 Jul 20 23:24

morning rise

2° £12′07

16132 Aug 14 14:38

16°**Ω**18'50

desc. node

	16100 7 1 05 00 15	00.0000			1612471 05 00 10	1.0000.000	
direct	16133 Jul 25 23:47	0° £ 02′36		morning rise	16134 Jul 05 09:10	16°934'23	
desc. node	16133 Aug 01 11:57	2° Ω 48'57		direct	16134 Jul 09 21:25	14°5543'00	
morning max el	16133 Aug 05 01:37	6° Ω 00'45	22°48'40	morning max el	16134 Jul 18 16:58	19°5549'26	21°23'32
	16133 Aug 23 15:04	0° m)		desc. node	16134 Jul 19 09:11	20°930'45	
morning set	16133 Sep 08 00:53	23° m 52'14			16134 Jul 27 05:46	0° Q	
	16133 Sep 11 17:18	0∘ ⊽			16134 Aug 16 18:44	0° m)	
max. Earth dist.	16133 Sep 12 14:53	1° ≏ 31'24	1.40455 AU	morning set	16134 Aug 19 01:53	3° m/35'24	
	16122 G 20 11 55	150 0 01150	0046124	max. Earth dist.	16134 Aug 25 19:53	14° m) 24'28	1.42676 AU
superior conj	16133 Sep 20 11:55	15° £ 21'50			161246 02 06 01	2 60 m 40157	1000151
minimum elong	16133 Sep 20 15:33	15° £ 38'17	0°45'41	superior conj	16134 Sep 02 06:01	26° Mp 49'57	
asc. node	16133 Sep 25 21:54	25° Ω 23'08		minimum elong	16134 Sep 02 12:46	27° m 18'54	1°22'04
	16133 Sep 28 08:27	0°M		1	16134 Sep 04 02:05	0∘ ⊽	
evening rise	16133 Sep 30 07:37	3°M44'08	1000 (157	asc. node	16134 Sep 12 18:34	15° 2 26′21	
evening max el	16133 Oct 16 05:58	29°M26'44	18°26'57	evening rise	16134 Sep 13 13:28	16° ≏ 51'44	
. 1	16133 Oct 16 19:43	0°⊀ ⁷			16134 Sep 20 23:13	0°M	10005104
retrograde	16133 Oct 24 00:58	3°×724'07		evening max el	16134 Sep 29 16:40	12°M16'46	18°05'04
evening set	16133 Oct 26 00:32	3°×709'30		retrograde	16134 Oct 06 14:10	15°M49'12	
desc. node	16133 Oct 28 09:02	2° ҂ 17′08		evening set desc. node	16134 Oct 08 20:22	15°M26'42	
::	16133 Oct 31 23:59	30°RM	1945103		16134 Oct 15 06:18	11°M07'47	0012117
inferior conj	16133 Nov 02 19:25	28°M36'20	1°42'46	inferior conj	16134 Oct 15 21:49	10°M32'28 10°M33'24	
minimum elong	16133 Nov 02 15:18			minimum elong	16134 Oct 15 21:25		
min. Earth dist.	16133 Nov 06 00:46	26°M04'20	0.57923 AU	transit middle	16134 Oct 15 21:25	10°M33'24	0°11'42
morning rise	16133 Nov 10 02:37	23°M24'32		transit begin	16134 Oct 15 19:06	10°M38'40	
direct	16133 Nov 16 09:10	21°M43'41	27007120	transit end	16134 Oct 15 23:43	10°M28'07	0.60162.411
morning max el	16133 Nov 30 15:33	29°M16'22	2/30/30	min. Earth dist.	16134 Oct 19 02:24	7°M37'57	0.60162 AU
	16133 Dec 01 09:14	0°⊀⊓		morning rise	16134 Oct 22 19:15	4°M48'34	
	16133 Dec 22 05:07	0°る		direct	16134 Oct 29 10:05	2°M42'53	27051141
asc. node	16133 Dec 22 22:13	1°る19'21		morning max el	16134 Nov 12 16:01	10°M31'27	2/*51'41
morning set	16133 Dec 30 22:57	17° る 28'48		1	16134 Nov 27 20:16	0° ✓ 1	
	16134 Jan 05 15:27	0° ≈		asc. node	16134 Dec 09 19:16	20° ∡ 749'21	
	16124 7 06 10 24	20 21152	1025125		16134 Dec 14 08:47	0°る	
superior conj	16134 Jan 06 18:34		1°37'37	morning set	16134 Dec 15 03:54	1°る40'04	1 21077 111
minimum elong	16134 Jan 06 18:07	2°≈29'22	1°38'16	max. Earth dist.	16134 Dec 21 05:37	14° る 52'38	1.31077 AU
max. Earth dist.	16134 Jan 06 22:26	2°≈53'32	1.31040 AU		16124 D 22 05 42	17070706	1022105
evening rise	16134 Jan 13 14:11	17°≈32'58		superior conj	16134 Dec 22 05:43	17° る 07'06	1°32'05
1 1	16134 Jan 19 16:58	0° ∀		minimum elong	16134 Dec 22 04:18		1°32'42
desc. node	16134 Jan 24 08:20	8°) 32′51			16134 Dec 28 00:53	0° ≈	
	16134 Feb 07 20:45	0° Υ	25001112	evening rise	16134 Dec 28 22:21	1°≈56'33	
evening max el	16134 Feb 13 00:19	5° Υ 31'27	27°01'12	desc. node	16135 Jan 11 05:08	27°≈26'53	
retrograde	16134 Feb 27 01:21	12° Υ 48'05			16135 Jan 12 19:12	0°) {	25054144
evening set	16134 Mar 05 15:21	10° Y 56'49	0.50500 433	evening max el	16135 Jan 25 20:48	16°) € 37'56	25°54'44
min. Earth dist.	16134 Mar 09 14:33	8° Y 15'48	0.59533 AU	retrograde	16135 Feb 08 19:33	23°) (40'59	
inferior conj	16134 Mar 12 19:57	5° Y 39'40		evening set	16135 Feb 14 20:32	22°) 15'56	0.55304.433
minimum elong	16134 Mar 13 01:46	5° Υ 27'53	2°30'43	min. Earth dist.	16135 Feb 19 09:53	19°) (37'14	0.57394 AU
morning rise	16134 Mar 20 15:46	0° Y 58'07		inferior conj	16135 Feb 22 08:57	17° ¥ 33'15	
asc. node	16134 Mar 20 19:47	0° Υ 55'43		minimum elong	16135 Feb 22 17:54		4°00'38
direct	16134 Mar 22 15:42	0° Υ 43'01	10005110	morning rise	16135 Mar 02 18:19	13°) 13′03	
morning max el	16134 Mar 30 05:01	4°Υ28'35	18°07'42	direct	16135 Mar 04 17:50	13°) €00'41	
morning set	16134 Apr 14 19:23	29° Y 08'11		asc. node	16135 Mar 07 17:09	13° ¥ 30′04	100450
	16134 Apr 15 06:29	0°8		morning max el	16135 Mar 13 11:10	17°) 17'48	18°47'20
desc. node	16134 Apr 22 09:43	13° 8 11'19			16135 Mar 22 12:50	0°Υ°	
	161044 04 1600	1501 115154	0010150	morning set	16135 Mar 29 15:57	13° Y 21'30	
superior conj	16134 Apr 24 16:32	17° 8 17'54			16125 1 07 00 22	001110110	0015110
minimum elong	16134 Apr 24 14:58	17° 8 10'58	0°19'04	superior conj	16135 Apr 07 09:32	0° 8 13'49	0°15'42
	16134 May 02 00:32	0°II		minimum elong	16135 Apr 07 10:33	0° 8 18'36	0°15'14
max. Earth dist.	16134 May 02 06:55	0° Ⅱ 26'47	1.41817 AU	behind sun begin	16135 Apr 07 08:32	0° 8 09'08	
evening rise	16134 May 07 08:20	8° Ⅱ 45'32		behind sun end	16135 Apr 07 12:34	0° 8 28'04	
	16134 May 21 05:03	0°©	2204772		16135 Apr 07 06:36	0°8	
evening max el	16134 Jun 09 20:59	25° © 20'13	22°44'29	desc. node	16135 Apr 09 06:25	3° 8 43'27	1.20.702 :
	16134 Jun 15 17:20	0 ° Ω		max. Earth dist.	16135 Apr 14 14:25	13° 8 21'08	1.39593 AU
asc. node	16134 Jun 16 17:48	0° Ω 30′10		evening rise	16135 Apr 18 12:54	20° 8 08'28	
retrograde	16124 1 10 22 10	1° Ω 13'52			16135 Apr 24 12:58	$\Pi^{\circ}0$	
	16134 Jun 19 22:19						
	16134 Jun 23 18:06	30° ₹ 5			16135 May 15 08:39	0 \circ	
evening set	16134 Jun 23 18:06 16134 Jun 24 21:26			evening max el	16135 May 15 08:39 16135 May 23 11:10	0°ഇ15′35	24°06'06
inferior conj	16134 Jun 23 18:06 16134 Jun 24 21:26 16134 Jun 30 04:24	30° ₹ 5	3°01'38	retrograde	16135 May 15 08:39 16135 May 23 11:10 16135 Jun 03 16:11		24°06'06
•	16134 Jun 23 18:06 16134 Jun 24 21:26	30°RS 29°S€08'01	3°01'38 3°00'50	•	16135 May 15 08:39 16135 May 23 11:10	9° © 15'35	24°06'06

min. Earth dist.	16135 Jun 13 18:01	8°508'33	0.68817 AU		16136 May 19 04:27	30°R Ⅱ	
inferior conj	16135 Jun 14 13:36	7°902'07	2°44'26	asc. node	16136 May 20 11:56	29° ∏ 31'42	
minimum elong	16135 Jun 14 11:51	7°508'04	2°43'23	evening set	16136 May 23 04:05	27° Ⅱ 46'33	
morning rise	16135 Jun 19 20:41	0° © 59'37		min. Earth dist.	16136 May 27 11:21	23° Ⅱ 01'43	0.68008 AU
C	16135 Jun 21 11:44	30°R Ⅱ		inferior conj	16136 May 28 20:03	21° Ⅱ 15'52	2°16'26
direct	16135 Jun 23 21:05	29° Ⅱ 27'54		minimum elong	16136 May 28 17:54	21° II 22'52	2°15'10
	16135 Jun 26 09:19	0ಂತ		morning rise	16136 Jun 03 08:09	15° Ⅱ 23'33	
morning max el	16135 Jul 01 14:32	3°5548'20	20°08'45	direct	16136 Jun 06 21:18	14° Ⅱ 11′20	
desc. node	16135 Jul 06 06:23	9° © 05'06		morning max el	16136 Jun 13 19:27	17° Ⅱ 57'12	19°08'08
	16135 Jul 21 01:59	$0^{\circ}\Omega$		desc. node	16136 Jun 22 03:31	28° Ⅱ 18'14	
morning set	16135 Jul 29 09:08	12° Ω 35'11			16136 Jun 23 08:00	0ංම	
max. Earth dist.	16135 Aug 08 07:54	28° Ω 07'52	1.44448 AU	greatest brilliancy	16136 Jun 26 16:37	4°956'05	-0.7m
	16135 Aug 09 12:01	0° m y		morning set	16136 Jul 07 15:11	21°536'54	
					16136 Jul 13 01:27	$0^{\circ}\Omega$	
superior conj	16135 Aug 14 00:51	7° m 19'21	-1°53'54	max. Earth dist.	16136 Jul 21 01:13	12° Ω 26′15	1.45590 AU
minimum elong	16135 Aug 14 08:36	7° m 50'58	1°53'36				
evening rise	16135 Aug 27 02:12	29° Mp 14'31		superior conj	16136 Jul 23 21:48	16° Ω 55'36	
	16135 Aug 27 12:48	0∘ ⊽		minimum elong	16136 Jul 24 01:26	17° Ω 09'54	2°12'35
asc. node	16135 Aug 30 15:16	5° ≏ 19'20			16136 Aug 01 02:53	0° m	
evening max el	16135 Sep 13 07:07	25° ≏ 34'57	18°02'27	evening rise	16136 Aug 07 16:33	10° ™ 39'30	
retrograde	16135 Sep 19 17:38	28° ≏ 56'15		asc. node	16136 Aug 16 11:58	24° m 57'00	
evening set	16135 Sep 22 07:57	28° ≏ 22'18			16136 Aug 19 18:23	0∘ ⊽	
inferior conj	16135 Sep 28 18:01	23° ჲ 09'12	1°01'43	evening max el	16136 Aug 26 21:43	9° £ 11'41	18°18'00
minimum elong	16135 Sep 28 19:41	23° ഫ 04'52	1°01'20	retrograde	16136 Sep 02 06:51	12° ≏ 35'14	
min. Earth dist.	16135 Oct 01 14:00	20° ≏ 12'33	0.62444 AU	evening set	16136 Sep 05 05:56	11° ≏ 46'57	
desc. node	16135 Oct 02 03:38	19° ≏ 38'56		inferior conj	16136 Sep 11 03:57	6° ≙ 17'40	1°56'27
morning rise	16135 Oct 05 04:59	17° ≏ 02'08		minimum elong	16136 Sep 11 06:16	6° £ 10'55	1°55'46
direct	16135 Oct 11 21:25	14° ≏ 37'48		min. Earth dist.	16136 Sep 13 11:32	3° ≏ 36'42	0.64556 AU
morning max el	16135 Oct 25 22:58	22° ≏ 35'09	27°56'33	morning rise	16136 Sep 17 05:01	29° m 56'51	
	16135 Nov 01 12:47	0° M ₊			16136 Sep 17 03:27	30°R Mp	
	16135 Nov 21 01:31	0° ∡ ¹		desc. node	16136 Sep 18 01:00	29° m 19'26	
asc. node	16135 Nov 26 16:15	10° ∡ ³37'55		direct	16136 Sep 23 17:46	27° m 21'51	
morning set	16135 Nov 29 02:34	15° ∡ 31'12			16136 Oct 01 02:43	0∘ ⊽	
max. Earth dist.	16135 Dec 04 09:04	26° ∡ ³39'18	1.31674 AU	morning max el	16136 Oct 07 09:35	5° ≏ 18'17	27°25'33
	16135 Dec 05 21:50	0°₹			16136 Oct 26 05:41	0° M	
		_		morning set	16136 Nov 11 16:19	28°M55'33	
superior conj	16135 Dec 06 14:51	1° る 33'35			16136 Nov 12 05:22	0° ∡ ¹	
minimum elong	16135 Dec 06 12:45	1° පි 21'56	1°20'57	asc. node	16136 Nov 12 13:08	0° ∡ ³38'31	
evening rise	16135 Dec 13 08:45			max. Earth dist.	16136 Nov 16 05:01	8° ∡ 105'49	1.32837 AU
	16135 Dec 19 23:11	0° ≈					
desc. node							
evening max el	16135 Dec 29 02:00	15° ≈ 34'46		superior conj	16136 Nov 19 19:49	15° ∡ ¹44'55	1°02'43
e , enning man er	16136 Jan 07 09:15	26° ≈ 56'48	24°21'43	superior conj minimum elong	16136 Nov 19 17:27	15° ∡ ³32'13	1°02'43 1°03'02
-	16136 Jan 07 09:15 16136 Jan 11 00:10	26°≈56'48 0°) €	24°21'43	minimum elong	16136 Nov 19 17:27 16136 Nov 26 09:55	15° 渘 32'13 0°る	
retrograde	16136 Jan 07 09:15 16136 Jan 11 00:10 16136 Jan 21 00:29	26°≈56'48 0°)(3°)(44'01	24°21'43		16136 Nov 19 17:27 16136 Nov 26 09:55 16136 Nov 26 19:30	15°ダ32'13 0°る 0°る51'20	
-	16136 Jan 07 09:15 16136 Jan 11 00:10 16136 Jan 21 00:29 16136 Jan 26 03:31	26°≈56'48 0° X 3° X 44'01 2° X 46'35	24°21'43	minimum elong	16136 Nov 19 17:27 16136 Nov 26 09:55 16136 Nov 26 19:30 16136 Dec 12 21:49	15°♂32'13 0°♂ 0°♂51'20 0°≈	
retrograde evening set	16136 Jan 07 09:15 16136 Jan 11 00:10 16136 Jan 21 00:29 16136 Jan 26 03:31 16136 Jan 31 16:51	26°≈56'48 0°¥ 3°¥44'01 2°¥46'35 30°R≈		minimum elong evening rise desc. node	16136 Nov 19 17:27 16136 Nov 26 09:55 16136 Nov 26 19:30 16136 Dec 12 21:49 16136 Dec 14 22:57	15° ズ 32'13 0° て 0° て 51'20 0° ≈ 2° ≈ 39'10	1°03'02
retrograde evening set min. Earth dist.	16136 Jan 07 09:15 16136 Jan 11 00:10 16136 Jan 21 00:29 16136 Jan 26 03:31 16136 Jan 31 16:51 16136 Jan 31 21:01	26°≈56'48 0° ℋ 3° ℋ44'01 2° ℋ46'35 30° ℝ≈ 29°≈53'45	0.55654 AU	minimum elong evening rise desc. node evening max el	16136 Nov 19 17:27 16136 Nov 26 09:55 16136 Nov 26 19:30 16136 Dec 12 21:49 16136 Dec 14 22:57 16136 Dec 18 18:47	15° ₹32'13 0° ♂ 0° ♂51'20 0° ≈ 2° ≈ 39'10 6° ≈ 51'56	
retrograde evening set min. Earth dist. inferior conj	16136 Jan 07 09:15 16136 Jan 11 00:10 16136 Jan 21 00:29 16136 Jan 26 03:31 16136 Jan 31 16:51 16136 Jan 31 21:01 16136 Feb 03 00:45	26°≈56'48 0° ₩ 3° ₩44'01 2° ₩46'35 30° R≈ 29°≈53'45 28°≈34'43	0.55654 AU -5°21'45	minimum elong evening rise desc. node evening max el retrograde	16136 Nov 19 17:27 16136 Nov 26 09:55 16136 Nov 26 19:30 16136 Dec 12 21:49 16136 Dec 14 22:57 16136 Dec 18 18:47 16136 Dec 31 17:02	15° オ32'13 0° 云 0° 云51'20 0° ≈ 2° ≈ 39'10 6° ≈ 51'56 13° ≈ 15'39	1°03'02
retrograde evening set min. Earth dist. inferior conj minimum elong	16136 Jan 07 09:15 16136 Jan 11 00:10 16136 Jan 21 00:29 16136 Jan 26 03:31 16136 Jan 31 16:51 16136 Feb 03 00:45 16136 Feb 03 09:14	26°≈56'48 0° ₩ 3° ₩ 44'01 2° ₩ 46'35 30° R≈ 29°≈53'45 28°≈34'43 28°≈21'44	0.55654 AU -5°21'45	minimum elong evening rise desc. node evening max el retrograde evening set	16136 Nov 19 17:27 16136 Nov 26 09:55 16136 Nov 26 19:30 16136 Dec 12 21:49 16136 Dec 14 22:57 16136 Dec 18 18:47 16136 Dec 31 17:02 16137 Jan 04 13:52	15° オ32'13 0° 云 0° 云51'20 0° 会 2° ≈ 39'10 6° ≈ 51'56 13° ≈ 15'39 12° ≈ 42'57	1°03'02 22°38'07
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	16136 Jan 07 09:15 16136 Jan 11 00:10 16136 Jan 21 00:29 16136 Jan 26 03:31 16136 Jan 31 16:51 16136 Feb 03 00:45 16136 Feb 03 09:14 16136 Feb 11 16:57	26°≈56'48 0° ₩ 3° ₩ 44'01 2° ₩ 46'35 30° κ≈ 29°≈53'45 28°≈34'43 28°≈21'44 24°≈34'37	0.55654 AU -5°21'45	evening rise desc. node evening max el retrograde evening set min. Earth dist.	16136 Nov 19 17:27 16136 Nov 26 09:55 16136 Nov 26 19:30 16136 Dec 12 21:49 16136 Dec 14 22:57 16136 Dec 18 18:47 16136 Dec 31 17:02 16137 Jan 04 13:52 16137 Jan 12 03:21	15° オ32'13 0° 古 0° 古51'20 0° 会 2° ≈ 39'10 6° ≈ 51'56 13° ≈ 15'39 12° ≈ 42'57 9° ≈ 16'06	1°03'02 22°38'07 0.54594 AU
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retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist.	16136 Jan 07 09:15 16136 Jan 11 00:10 16136 Jan 21 00:29 16136 Jan 31 16:51 16136 Jan 31 16:51 16136 Jan 31 21:01 16136 Feb 03 00:45 16136 Feb 11 16:57 16136 Feb 14 00:24 16136 Feb 22 14:30 16136 Feb 24 05:32 16136 Feb 24 22:15 16136 Mar 12 20:12 16136 Mar 13 21:09 16136 Mar 20 17:29 16136 Mar 20 17:29 16136 Mar 20 19:47 16136 Mar 26 03:07 16136 Mar 26 20:55 16136 Mar 29 06:01	26°≈56'48 0° ₩ 3° ₩44'01 2° ₩46'35 30° R≈ 29°≈53'45 28°≈34'43 28°≈21'44 24°≈34'37 24°≈20'36 27°≈50'31 29°≈18'02 0° ₩ 27° ₩53'26 0° Ψ 13° ¥49'26 14° ¥00'46 24° ¥14'55 25° ¥38'00 0° ₩	0.55654 AU -5°21'45 5°19'39 19°49'35 0°44'47 0°44'18	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	16136 Nov 19 17:27 16136 Nov 26 09:55 16136 Nov 26 19:30 16136 Dec 12 21:49 16136 Dec 14 22:57 16136 Dec 18 18:47 16136 Dec 31 17:02 16137 Jan 04 13:52 16137 Jan 12 03:21 16137 Jan 12 02:33 16137 Jan 13 00:06 16137 Jan 21 11:30 16137 Jan 24 13:38 16137 Feb 05 09:06 16137 Feb 08 11:50 16137 Feb 18 22:16 16137 Feb 25 05:10 16137 Mar 04 12:23 16137 Mar 04 14:54 16137 Mar 05 13:01	15° * 32'13 0° * 50° * 32'13 0° * 55'20 0° * 2° * 39'10 6° * 51'56 13° * 15'39 12° * 42'57 9° * 16'06 8° * 49'00 8° * 46'48 5° * 00'53 4° * 39'08 10° * 21'11 13° * 43'09 0° * 12° * 13'4'37 27° * 153'07 28° * 106'10 0° \$\mathcal{Y}\$	1°03'02 22°38'07 0.54594 AU -6°01'06 6°00'26 21°15'04 1°07'36 1°07'36
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	16136 Jan 07 09:15 16136 Jan 11 00:10 16136 Jan 21 00:29 16136 Jan 31 16:51 16136 Jan 31 16:51 16136 Jan 31 21:01 16136 Feb 03 00:45 16136 Feb 03 09:14 16136 Feb 11 16:57 16136 Feb 14 00:24 16136 Feb 22 14:30 16136 Feb 24 05:32 16136 Feb 24 22:15 16136 Mar 12 20:12 16136 Mar 13 21:09 16136 Mar 20 17:29 16136 Mar 20 19:47 16136 Mar 26 03:07 16136 Mar 26 03:07 16136 Mar 29 06:01 16136 Mar 30 13:38	26°≈56'48 0° ₩ 3° ₩44'01 2° ₩46'35 30° R≈ 29°≈53'45 28°≈34'43 28°≈21'44 24°≈34'37 24°≈20'36 27°≈50'31 29°≈18'02 0° ₩ 27° ₩53'26 0° Υ 13° ¥49'26 14° ¥00'46 24° ¥14'55 25° ¥38'00 0° ₩ 2° ₩21'58	0.55654 AU -5°21'45 5°19'39 19°49'35 0°44'47 0°44'18	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	16136 Nov 19 17:27 16136 Nov 26 09:55 16136 Nov 26 19:30 16136 Dec 12 21:49 16136 Dec 14 22:57 16136 Dec 18 18:47 16136 Dec 31 17:02 16137 Jan 04 13:52 16137 Jan 12 03:21 16137 Jan 12 02:33 16137 Jan 12 11:30 16137 Jan 21 11:30 16137 Jan 24 13:38 16137 Feb 05 09:06 16137 Feb 08 11:50 16137 Feb 18 22:16 16137 Feb 25 05:10 16137 Mar 04 12:23 16137 Mar 04 14:54 16137 Mar 05 13:01 16137 Mar 09 06:35	15° * 32'13 0° * 6 0° * 551'20 0° * 2° * 39'10 6° * \$51'56 13° * 15'39 12° * 42'57 9° * 16'06 8° * 49'00 8° * 46'48 5° * 600'53 4° * 39'08 10° * 21'11 13° * 43'09 0° * H 12° * H 34'37 27° * H 53'07 28° * H 06'10 0° \$\mathcal{Y}\$ 7° \$\mathcal{Y}\$ 31'06	1°03'02 22°38'07 0.54594 AU -6°01'06 6°00'26 21°15'04
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	16136 Jan 07 09:15 16136 Jan 11 00:10 16136 Jan 21 00:29 16136 Jan 31 16:51 16136 Jan 31 16:51 16136 Jan 31 21:01 16136 Feb 03 00:45 16136 Feb 11 16:57 16136 Feb 14 00:24 16136 Feb 22 14:30 16136 Feb 24 05:32 16136 Feb 24 22:15 16136 Mar 12 20:12 16136 Mar 13 21:09 16136 Mar 20 17:29 16136 Mar 20 19:47 16136 Mar 20 19:47 16136 Mar 26 03:07 16136 Mar 26 03:07 16136 Mar 29 06:01 16136 Mar 30 13:38 16136 Apr 16 15:38	26°\$56'48 0°\text{3°\text{36'35}} 30°\text{88} 29°\$53'45 28°\$34'43 28°\$21'44 24°\$34'37 24°\$50'31 29°\$18'02 0°\text{Y} 27°\text{53'26} 0°\text{Y} 13°\text{Y49'26} 14°\text{Y00'46} 24°\text{Y14'55} 25°\text{Y38'00} 0°\text{B} 2°\text{S21'58} 0°\text{II}	0.55654 AU -5°21'45 5°19'39 19°49'35 0°44'47 0°44'18 1.37306 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. desc. node	16136 Nov 19 17:27 16136 Nov 26 09:55 16136 Nov 26 19:30 16136 Dec 12 21:49 16136 Dec 14 22:57 16136 Dec 18 18:47 16136 Dec 31 17:02 16137 Jan 04 13:52 16137 Jan 12 03:21 16137 Jan 13 00:06 16137 Jan 21 11:30 16137 Jan 24 13:38 16137 Feb 05 09:06 16137 Feb 08 11:50 16137 Feb 18 22:16 16137 Feb 25 05:10 16137 Mar 04 12:23 16137 Mar 04 14:54 16137 Mar 05 13:01 16137 Mar 09 06:35 16137 Mar 12 23:48	15° オ32'13 0°る 0°る51'20 0°≈ 2°≈39'10 6°≈51'56 13°≈15'39 12°≈42'57 9°≈16'06 8°≈49'00 8°≈46'48 5°≈00'53 4°≈39'08 10°≈21'11 13°≈43'09 0° ★ 12° ★34'37 27° ★53'07 28° ★06'10 0° Υ 7° Υ31'06 14° Υ41'29	1°03'02 22°38'07 0.54594 AU -6°01'06 6°00'26 21°15'04 1°07'36 1°07'36
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.	16136 Jan 07 09:15 16136 Jan 11 00:10 16136 Jan 21 00:29 16136 Jan 31 16:51 16136 Jan 31 16:51 16136 Jan 31 21:01 16136 Feb 03 00:45 16136 Feb 11 16:57 16136 Feb 14 00:24 16136 Feb 22 14:30 16136 Feb 24 05:32 16136 Feb 24 22:15 16136 Mar 12 20:12 16136 Mar 20 17:29 16136 Mar 20 17:29 16136 Mar 20 19:47 16136 Mar 20 19:47 16136 Mar 20 09:01	26°≈56'48 0° ₩ 3° ₩44'01 2° ₩46'35 30° R≈ 29°≈53'45 28°≈34'43 28°≈21'44 24°≈34'37 24°≈50'31 29°≈18'02 0° ₩ 27° ₩53'26 0° Υ 13° Υ49'26 14° Υ00'46 24° Υ14'55 25° Υ38'00 0° ੴ 2° ੴ21'58 0° Ⅲ 23° Ⅲ10'01	0.55654 AU -5°21'45 5°19'39 19°49'35 0°44'47 0°44'18 1.37306 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	16136 Nov 19 17:27 16136 Nov 26 09:55 16136 Nov 26 19:30 16136 Dec 12 21:49 16136 Dec 14 22:57 16136 Dec 18 18:47 16136 Dec 31 17:02 16137 Jan 04 13:52 16137 Jan 12 03:21 16137 Jan 12 02:33 16137 Jan 13 00:06 16137 Jan 21 11:30 16137 Jan 24 13:38 16137 Feb 05 09:06 16137 Feb 08 11:50 16137 Feb 18 22:16 16137 Feb 25 05:10 16137 Mar 04 12:23 16137 Mar 04 14:54 16137 Mar 09 06:35 16137 Mar 12 23:48 16137 Mar 12 23:48 16137 Mar 13 07:16	15° 才32'13 0° 云 0° 云51'20 0° 云51'20 0° ≈ 2° ≈39'10 6° ≈51'56 13° ≈15'39 12° ≈42'57 9° ≈16'06 8° ≈49'00 8° ≈46'48 5° ≈00'53 4° ≈39'08 10° ≈21'11 13° ≈43'09 0° 升 12° 升34'37 27° 升53'07 28° 升06'10 0° Ŷ 7° Ŷ31'06 14° Ŷ41'29 15° Ŷ16'39	1°03'02 22°38'07 0.54594 AU -6°01'06 6°00'26 21°15'04 1°07'36 1°07'36
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	16136 Jan 07 09:15 16136 Jan 11 00:10 16136 Jan 21 00:29 16136 Jan 31 16:51 16136 Jan 31 16:51 16136 Jan 31 21:01 16136 Feb 03 00:45 16136 Feb 11 16:57 16136 Feb 14 00:24 16136 Feb 22 14:30 16136 Feb 24 05:32 16136 Feb 24 22:15 16136 Mar 12 20:12 16136 Mar 13 21:09 16136 Mar 20 17:29 16136 Mar 20 19:47 16136 Mar 20 19:47 16136 Mar 26 03:07 16136 Mar 26 03:07 16136 Mar 29 06:01 16136 Mar 30 13:38 16136 Apr 16 15:38	26°\$56'48 0°\$\text{3°}\$\text{44'01} 2°\$\text{46'35} 30°\$\text{30°}\$\text{88} 29°\$\text{53'45} 28°\$\text{21'44} 24°\$\text{34'37} 24°\$\text{20'36} 27°\$\text{50'31} 29°\$\text{18'02} 0°\$\text{12'}\$\text{53'26} 0°\$\text{13'}\$\text{Y49'26} 14°\$\text{Y00'46} 24°\$\text{Y14'55} 25°\$\text{Y38'00} 0°\$\text{20'821'58} 0°\$\text{II}	0.55654 AU -5°21'45 5°19'39 19°49'35 0°44'47 0°44'18 1.37306 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. desc. node	16136 Nov 19 17:27 16136 Nov 26 09:55 16136 Nov 26 19:30 16136 Dec 12 21:49 16136 Dec 14 22:57 16136 Dec 18 18:47 16136 Dec 31 17:02 16137 Jan 04 13:52 16137 Jan 12 03:21 16137 Jan 13 00:06 16137 Jan 21 11:30 16137 Jan 24 13:38 16137 Feb 05 09:06 16137 Feb 08 11:50 16137 Feb 18 22:16 16137 Feb 25 05:10 16137 Mar 04 12:23 16137 Mar 04 14:54 16137 Mar 05 13:01 16137 Mar 09 06:35 16137 Mar 12 23:48	15° オ32'13 0°る 0°る51'20 0°≈ 2°≈39'10 6°≈51'56 13°≈15'39 12°≈42'57 9°≈16'06 8°≈49'00 8°≈46'48 5°≈00'53 4°≈39'08 10°≈21'11 13°≈43'09 0° ★ 12° ★34'37 27° ★53'07 28° ★06'10 0° Υ 7° Υ31'06 14° Υ41'29	1°03'02 22°38'07 0.54594 AU -6°01'06 6°00'26 21°15'04 1°07'36 1°07'36

evening max el	16137 Apr 17 14:12	6° Ⅱ 58'24	26°29'10	evening max el	16138 Mar 31 03:43	20° 8 32'01	27°15'49
retrograde	16137 Apr 30 14:46	14° ∏ 23'12	20 27 10	retrograde	16138 Apr 13 17:33	28° 8 04'31	2, 10 19
evening set	16137 May 06 22:45	11° II 50'31		evening set	16138 Apr 20 08:57	25° 8 34'16	
asc. node	16137 May 07 09:07	11° Ⅱ 28'44		min. Earth dist.	16138 Apr 24 05:36	21° 8 57'05	0.65061 AU
min. Earth dist.	16137 May 10 23:53	7° Ⅱ 40'59	0.66739 AU	asc. node	16138 Apr 24 06:20	21° 8 55'06	
inferior conj	16137 May 12 21:39	5° Ⅱ 22'32	1°36'47	inferior conj	16138 Apr 26 15:52	19° 8 15'42	0°44'15
minimum elong	16137 May 12 19:36	5° Ⅱ 28'44	1°35'28	minimum elong	16138 Apr 26 14:42	19° 8 18'58	0°43'18
	16137 May 18 05:39	30° ₹ 8		morning rise	16138 May 02 22:18	13° 8 47'58	
morning rise	16137 May 18 17:30	29° 8 41'38		direct	16138 May 05 15:35	13° 8 08'54	
direct	16137 May 21 20:11	28° 8 47'20		morning max el	16138 May 11 22:50	16° 8 24'18	17°56'13
	16137 May 25 13:33	Π °0			16138 May 21 22:46	Π °0	
morning max el	16137 May 28 06:56	2° Ⅱ 11'44	18°23'42	desc. node	16138 May 26 21:31	8° Ⅲ 02′10	
desc. node	16137 Jun 09 00:34	18° Ⅱ 00'00		morning set	16138 May 29 18:25	12° Ⅱ 45'58	
	16137 Jun 16 15:52	0ಂಣ			16138 Jun 09 08:23	0 \circ	
morning set	16137 Jun 17 15:16	1° © 32'33					
				superior conj	16138 Jun 12 21:46	5° © 40'10	
superior conj	16137 Jul 03 07:14	26° © 08'17		minimum elong	16138 Jun 12 13:16	5° © 06′28	1°51'19
minimum elong	16137 Jul 03 03:06	25°952'10	2°11'54	max. Earth dist.	16138 Jun 16 17:02	11°539'42	1.45675 AU
max. Earth dist.	16137 Jul 03 21:03	27° © 02'06	1.46005 AU	evening rise	16138 Jun 28 22:31	0° Ω 35'24	
	16137 Jul 05 18:43	0°N		1 '11'	16138 Jun 28 13:17	0°N	0.6
evening rise	16137 Jul 19 05:47	21° Ω 01'31		greatest brilliancy	16138 Jul 12 22:39	21° Ω 41'47	-0.6m
	16137 Jul 24 23:19	0°M) 5°™25!20	-0.8m	4-	16138 Jul 18 20:46	0°M)	
greatest brilliancy asc. node	16137 Jul 28 13:49	5° Mp 35'29	-0.8m	asc. node	16138 Jul 21 05:27 16138 Jul 24 16:27	3° Mp 01'00 6° Mp 52'55	19°40'09
evening max el	16137 Aug 03 08:41 16137 Aug 10 09:33	14° Mp 13'38 22° Mp 59'51	18°50'56	evening max el retrograde	16138 Aug 01 00:06	10° Mp 58'46	19 40 09
retrograde	16137 Aug 10 03:53	26° m ₀ 38'28	18 30 30	evening set	16138 Aug 04 18:40	9° Tb 36'24	
evening set	16137 Aug 17 01:39 16137 Aug 20 10:28	25° Mp 33'47		inferior conj	16138 Aug 10 02:49	3° m/ 40'25	2°57'01
inferior conj	16137 Aug 25 23:56	19° m 50'26	2°34'01	minimum elong	16138 Aug 10 04:11	3° m) 35'52	
minimum elong	16137 Aug 26 02:00	19° m) 43'52	2°33'23	min. Earth dist.	16138 Aug 11 06:39	2° m) 07'33	0.67746 AU
min. Earth dist.	16137 Aug 27 17:44	17° Mp 38'52	0.66353 AU	mm. Darm dist.	16138 Aug 12 22:38	30°RΩ	0.077.10110
morning rise	16137 Aug 31 16:37	13° m) 23'57	0.00323110	morning rise	16138 Aug 15 13:09	27°Ω14'13	
desc. node	16137 Sep 04 22:23	11° m)01'58		direct	16138 Aug 21 08:18	24° Ω 43'02	
direct	16137 Sep 06 21:51	10° m) 46'51		desc. node	16138 Aug 22 19:45	24° Ω 51'40	
morning max el	16137 Sep 19 21:10	18° m) 28'30	26°26'12		16138 Aug 31 08:58	0° m	
C	16137 Sep 29 15:19	0∘ ⊽		morning max el	16138 Sep 02 08:09	1° m 53'47	25°07'44
	16137 Oct 19 05:26	0°M₊			16138 Sep 23 16:32	0∘ ⊽	
morning set	16137 Oct 25 18:04	11°ML46'30		morning set	16138 Oct 08 03:56	23° ≏ 54'37	
max. Earth dist.	16137 Oct 29 15:04	19°ML13'29	1.34540 AU	max. Earth dist.	16138 Oct 11 16:29	0° M 18′36	1.36686 AU
asc. node	16137 Oct 30 09:57	20° M46'46			16138 Oct 11 12:28	0° M	
				asc. node	16138 Oct 17 06:43	10° ™ 58′09	
superior conj	16137 Nov 03 18:14	29°M35'37	0°38'50				
minimum elong	16137 Nov 03 16:17	29°M25'35	0°39'04	superior conj	16138 Oct 18 07:03	12°M57'55	0°09'10
	16137 Nov 03 22:56	0° ∡ ¹		minimum elong	16138 Oct 18 06:28	12°M55'00	0°09'29
evening rise	16137 Nov 11 04:43	15° ∡ 12'55		behind sun begin	16138 Oct 18 01:12	12° M 29′02	
	16137 Nov 18 14:52	0°₹		behind sun end	16138 Oct 18 11:44	13° M 21'01	
evening max el	16137 Nov 30 11:22		21°01'49	evening rise	16138 Oct 26 10:11	29° M 23'31	
desc. node	16137 Dec 01 19:57	18°る18'55			16138 Oct 26 17:23	0° ∡ 7	
retrograde	16137 Dec 12 02:51	22°る48'56		evening max el	16138 Nov 12 17:47	27° ₹ 57'39	19°44'12
evening set	16137 Dec 14 18:51	22°る32'07	5040140	1 1	16138 Nov 15 00:53	0°る	
inferior conj	16137 Dec 23 13:13 16137 Dec 23 05:53	18° ප් 41'01 18° ප් 51'26	-5°40'48 5°38'58	desc. node	16138 Nov 18 17:03	2°る09'34 2°る57'35	
minimum elong min. Earth dist.	16137 Dec 23 03:33 16137 Dec 24 08:46	18°る12'0	0.54434 AU	retrograde evening set	16138 Nov 22 18:01 16138 Nov 24 18:22	2°る46'23	
morning rise	16137 Dec 24 08:40 16137 Dec 31 17:03	18 3 13 13	0.34434 AU	evening set	16138 Dec 01 10:04	2 04023 30°R.✓	
direct	16138 Jan 04 20:58	14°る11'14		inferior conj	16138 Dec 01 10:04	28° ∡ 744'42	-1°25'55
morning max el	16138 Jan 17 23:11	14 311 14 20°る34'18	22°59'10	minimum elong	16138 Dec 03 01:30	28 x 44 42 29° x 00'11	4°22'12
morning must of	16138 Jan 25 19:27	20°≈	22 37 10	min. Earth dist.	16138 Dec 05 16:08	27° x '22'39	0.55209 AU
asc. node	16138 Jan 26 09:06	0° ≈ 49'48		morning rise	16138 Dec 11 07:06	24°×229'38	3.55207 110
morning set	16138 Feb 09 16:34	27°≈18'31		direct	16138 Dec 16 11:31	23° x 30'11	
<i>5</i>	16138 Feb 10 22:44	0° ∀			16138 Dec 29 20:49	0°ਰ	
				morning max el	16138 Dec 30 07:29	0° る 25'04	24°48'57
superior conj	16138 Feb 16 14:57	12° ¥ 15'33	1°24'00	asc. node	16139 Jan 13 06:19	18° る 53'16	
minimum elong	16138 Feb 16 17:01	12° ¥ 26'37	1°24'04		16139 Jan 19 08:58	0° ≈	
max. Earth dist.	16138 Feb 19 23:06	19°) 19'40	1.33407 AU	morning set	16139 Jan 25 04:31	12° ≈ 00'00	
evening rise	16138 Feb 24 14:19	28°) 43′24					
	16138 Feb 25 05:57	0° Υ		superior conj	16139 Jan 31 22:36	26° ≈ 49'36	1°34'06
desc. node	16138 Feb 27 20:27	4° Y 58'58		minimum elong	16139 Jan 31 23:48	26° ≈ 56′13	1°34'29
	16138 Mar 14 18:01	0° 8			16139 Feb 02 09:20	0° ∀	

Faul die	16120 E-k 02 22-20	10W16112	1 22000 ATT		16140 I 22 00-21	2690041156	
max. Earth dist.	16139 Feb 02 23:20		1.32088 AU	evening rise	16140 Jan 23 08:21	26° ≈ 41'56	
evening rise	16139 Feb 08 07:36	12°) ₹34'25			16140 Jan 24 22:22	0°){	
desc. node	16139 Feb 14 17:06	25°) €02'41		desc. node	16140 Feb 01 13:48	14°) (45′52	
	16139 Feb 17 10:52	0° Υ			16140 Feb 10 21:09	0°Υ	
	16139 Mar 10 03:02	0°8		evening max el	16140 Feb 23 23:36	16° Y ′06′29	27°24'00
evening max el	16139 Mar 13 15:44	3° 8 39'31	27°36'04	retrograde	16140 Mar 08 23:50	23° Y ′28′31	
retrograde	16139 Mar 27 13:01	11° 8 09'44		evening set	16140 Mar 15 17:56	21° Y ′24'31	
evening set	16139 Apr 03 08:18	8° 8 49'04		min. Earth dist.	16140 Mar 19 13:38	18° Ƴ 36'17	0.60843 AU
min. Earth dist.	16139 Apr 07 02:42	5° 8 39'48	0.63056 AU	inferior conj	16140 Mar 22 17:58	15° Ƴ 49'40	-1°42'00
inferior conj	16139 Apr 09 23:49	2° 8 48'10		minimum elong	16140 Mar 22 21:42	15° Ƴ 41'28	1°40'38
minimum elong	16139 Apr 10 00:33	2° 8 46'22	0°22'08	asc. node	16140 Mar 28 00:56	11° Y 50'49	
asc. node	16139 Apr 11 03:36	1° 8 39'52		morning rise	16140 Mar 30 04:50	10° Ƴ 56'11	
	16139 Apr 12 23:36	30° ŖƳ		direct	16140 Apr 01 07:29	10° Ƴ 37'38	
morning rise	16139 Apr 16 19:29	27° Y 36'00		morning max el	16140 Apr 08 08:39	14° Y 09'31	17°54'19
direct	16139 Apr 19 04:35	27° Ƴ 08'55			16140 Apr 19 05:24	0°B	
	16139 Apr 25 05:03	$_{0\circ}$ 8		morning set	16140 Apr 23 23:23	8° 8 31'39	
morning max el	16139 Apr 25 16:29	0° 8 26'56	17°46'11	desc. node	16140 Apr 29 15:10	18° 8 44'34	
morning set	16139 May 11 23:03	25° 8 11'50					
desc. node	16139 May 13 18:23	28° 8 18'52		superior conj	16140 May 04 15:53	27° 8 35'13	-0°40'26
	16139 May 14 17:53	0° I I		minimum elong	16140 May 04 12:19	27° 8 19'45	0°40'26
	, and the second			· ·	16140 May 06 01:33	0° I I	
superior conj	16139 May 24 07:06	16° Ⅱ 05'42	-1°18'18	max. Earth dist.	16140 May 12 01:57	10° Ⅱ 04'50	1.42982 AU
minimum elong	16139 May 23 23:53	15° I 35'57		evening rise	16140 May 18 05:55	19° Ⅲ 59'16	1.12/02/110
max. Earth dist.	16139 May 30 11:27		1.44635 AU	evening rise	16140 May 24 17:30	0°95	
max. Earth dist.	16139 Jun 01 22:28	0°95	1.44033 710		16140 Jun 15 06:28	$0 {\circ} \mathcal{U}$	
evening rise	16139 Jun 08 09:13	10° © 01'35		evening max el	16140 Jun 19 12:36	4° Ω 41'36	21050121
evening rise	16139 Jun 21 17:36	0°Ω		asc. node	16140 Jun 23 23:11	8° Ω 25'26	21 3621
			20042141				
evening max el	16139 Jul 07 17:23	20° Ω 47'28	20°43'41	retrograde	16140 Jun 28 21:16	10°Ω09'23	
asc. node	16139 Jul 08 02:16	21° Ω 09'19		evening set	16140 Jul 03 13:53	8° Ω 12'05	2006140
retrograde	16139 Jul 15 23:05	25° Ω 30'56		inferior conj	16140 Jul 08 19:43	1° Ω 54'35	3°06'49
evening set	16139 Jul 20 04:25	23° Ω 50'38	2007/20	minimum elong	16140 Jul 08 19:12	1° Ω 56′24	3°06'07
inferior conj	16139 Jul 25 10:07	17° Ω 43'11	3°07'29	min. Earth dist.	16140 Jul 08 20:33	1° Ω 51'41	0.69118 AU
minimum elong	16139 Jul 25 10:34	17° Ω 41'41	3°06'55		16140 Jul 10 04:53	30°₹∽	
min. Earth dist.	16139 Jul 26 00:16	16° Ω 54'21	0.68680 AU	morning rise	16140 Jul 14 00:21	25° © 38'59	
morning rise	16139 Jul 30 16:25	11° Ω 21'06		direct	16140 Jul 18 19:33	23° © 37'02	
direct	16139 Aug 04 23:54	9° Ω 02'21		desc. node	16140 Jul 26 14:23	27° © 33'27	
desc. node	16139 Aug 09 17:06	10° Ω 30′16		morning max el	16140 Jul 28 08:09	29° © 12'29	22°11'33
morning max el	16139 Aug 15 19:05	15° Ω 28'42	23°39'50		16140 Jul 29 02:42	0 $^{\circ}$ Ω	
	16139 Aug 27 17:25	0° m y			16140 Aug 20 09:53	0° m y	
	16139 Sep 16 15:11	0∘ ত		morning set	16140 Aug 30 08:18	15° m , 27′37	
morning set	16139 Sep 19 17:45	5° ₽ 10'24		max. Earth dist.	16140 Sep 04 17:11	24° m 15'27	1.41442 AU
max. Earth dist.	16139 Sep 23 15:09	11° ≏ 51'44	1.39081 AU		16140 Sep 08 02:40	0∘ ⊽	
superior conj	16139 Oct 01 06:39	25° ≏ 43'13		superior conj	16140 Sep 12 12:46	7° ≏ 42'09	
minimum elong	16139 Oct 01 08:29	25° ≏ 51'47	0°24'43	minimum elong	16140 Sep 12 17:48	8° ≏ 04'25	1°01'19
	16139 Oct 03 12:58	0° M		asc. node	16140 Sep 20 00:07	21° ≏ 16′20	
asc. node	16139 Oct 04 03:25	1° M 09'04		evening rise	16140 Sep 22 22:44	26° ≏ 44'29	
evening rise	16139 Oct 10 09:18	13°M16'41			16140 Sep 24 16:49	0° M	
	16139 Oct 19 10:18	0° ∡ ¹		evening max el	16140 Oct 08 20:41	22°M10'50	18°15'09
evening max el	16139 Oct 26 14:03	9° ∡ ¹42'06	18°48'49	retrograde	16140 Oct 16 05:20	25°M56'20	
retrograde	16139 Nov 04 01:53	13° ₹ ′59'30		evening set	16140 Oct 18 07:21	25°M38'52	
evening set	16139 Nov 05 23:33	13° ∡ '47'24		desc. node	16140 Oct 22 11:29	23°M32'18	
desc. node	16139 Nov 05 14:14	13° ∡ ′51'48		inferior conj	16140 Oct 25 18:40	20°M56'12	-1°03'38
inferior conj	16139 Nov 14 04:05	9° ∡ ¹26'12	-2°44'19	minimum elong	16140 Oct 25 16:19	21°ML01'11	1°02'09
minimum elong	16139 Nov 13 21:23	9° × 38'18	2°41'04	min. Earth dist.	16140 Oct 29 00:46	18° M ₊12'19	0.58846 AU
min. Earth dist.	16139 Nov 17 04:24	7° ∡ 16'13	0.56770 AU	morning rise	16140 Nov 01 21:51	15° M ₊29'40	
morning rise	16139 Nov 21 16:14	4° ∡ ′36′00		direct	16140 Nov 08 08:31	13°MJ38'03	
direct	16139 Nov 27 15:07	3° ∡ 10'53		morning max el	16140 Nov 22 15:30	21° M .18'08	27°31'18
morning max el	16139 Dec 11 19:21	10° ∡ ′30'31	26°25'21	<i>5</i>	16140 Nov 30 05:56	0° ₹	-
	16139 Dec 26 16:50	0°る	- 	asc. node	16140 Dec 17 00:34	26° ₹ '54'51	
asc. node	16139 Dec 31 03:28	で ろ 38'37			16140 Dec 18 14:57	0°る	
morning set	16140 Jan 09 15:12	26° る 33'22		morning set	16140 Dec 23 22:49	00 10°る54'12	
morning set	16140 Jan 11 05:14	20° ≈		morning sot	10110 1000 23 22.49	10 03412	
		+ : - :		superior conj	16140 Dec 30 20:33	26° る 05'52	1°36'00
superior conj	16140 Jan 16 09:05	11° ≈ 28'04	1°38'04	minimum elong	16140 Dec 30 19:40	26°る00'58	1°36'40
minimum elong	16140 Jan 16 09:15	11° ≈ 28'59	1°38'40	max. Earth dist.	16140 Dec 30 12:49	25° る 22'36	1.30986 AU
max. Earth dist.	16140 Jan 17 05:04	13°≈19'29	1.31271 AU		16141 Jan 01 14:21	0° ≈	
wibt.					01 11.21	÷ · • ·	

page 23

max. Earth dist.

16141 Dec 13 18:44

7°る16'08 1.31256 AU

superior conj	16142 Nov 29 14:42	24° ₹ 57'54	1°13'42	superior conj	16143 Nov 13 17:13	9° ∡ 01'33	0°53'20
minimum elong	16142 Nov 29 12:24	24° ∡ ¹45′26	1°14'06	minimum elong	16143 Nov 13 14:56	8° ∡ ¹49'28	0°53'36
	16142 Dec 01 21:51	0° ප		evening rise	16143 Nov 20 20:48	24° ∡ 18'49	
evening rise	16142 Dec 06 10:27	9° る 53'18			16143 Nov 23 13:58	8°0	
	16142 Dec 16 14:21	0° ≈		desc. node	16143 Dec 10 01:17	26° පි 50'40	
desc. node	16142 Dec 23 04:19	10° ≈ 19'17		evening max el	16143 Dec 11 15:00	28° る 28'24	21°55'23
evening max el	16142 Dec 30 03:31	18° ≈ 30'31	23°37'53		16143 Dec 13 06:59	0°≈	
retrograde	16143 Jan 12 13:21	25° ≈ 08'54		retrograde	16143 Dec 24 01:19	4° ≈ 37'05	
evening set	16143 Jan 17 03:54	24° ≈ 23′01		evening set	16143 Dec 27 09:10	4° ≈ 12'22	
min. Earth dist.	16143 Jan 23 14:45	21° ≈ 17'56	0.55097 AU	inferior conj	16144 Jan 04 22:50	0° ≈ 21'49	-6°00'10
inferior conj	16143 Jan 25 05:44	20° ≈ 20'49	-5°44'53	minimum elong	16144 Jan 04 20:16	0° ≈ 25'24	5°59'23
minimum elong	16143 Jan 25 12:02	20° ≈ 11'34	5°43'32	min. Earth dist.	16144 Jan 04 20:07	0° ≈ 25'37	0.54412 AU
morning rise	16143 Feb 02 21:40	16° ≈ 26'50			16144 Jan 05 14:29	30°₽₹	
direct	16143 Feb 05 11:41	16° ≈ 10′23		morning rise	16144 Jan 13 08:07	26° ප 34'22	
morning max el	16143 Feb 16 09:37	21° ≈ 27′28	20°23'17	direct	16144 Jan 16 21:13	26° පි 06'42	
asc. node	16143 Feb 16 16:57	21° ≈ 45'30			16144 Jan 26 20:17	0° ≈	
	16143 Feb 23 05:31	0° ∀		morning max el	16144 Jan 29 06:45	2° ≈ 06'46	21°57'39
morning set	16143 Mar 06 20:40	21°) €27'44		asc. node	16144 Feb 03 14:15	8° ≈ 11'49	
	16143 Mar 10 23:56	$0^{\circ}\mathbf{\Upsilon}$			16144 Feb 16 07:22	0°) €	
				morning set	16144 Feb 19 06:56	6° ¥ 10'55	
superior conj	16143 Mar 14 11:17	7° Ƴ 05'56	0°55'14				
minimum elong	16143 Mar 14 13:47	7° Ƴ 18'31	0°54'49	superior conj	16144 Feb 26 09:47	21°) 18′19	1°15'20
max. Earth dist.	16143 Mar 20 00:45	18° Ƴ 02'17	1.36365 AU	minimum elong	16144 Feb 26 12:10	21°) 30′54	1°15'12
desc. node	16143 Mar 21 05:18	20° Ƴ 17'32		max. Earth dist.	16144 Mar 01 13:25	29°) 52'55	1.34378 AU
evening rise	16143 Mar 23 19:58	25° Y '07'43			16144 Mar 01 14:49	0° Y	
	16143 Mar 26 13:11	0°8		evening rise	16144 Mar 05 19:44	8° Y 17'00	
	16143 Apr 14 16:15	Π° 0		desc. node	16144 Mar 07 01:59	10° Ƴ 40'43	
evening max el	16143 Apr 28 07:03	16° Ⅲ 24′24	25°53'21		16144 Mar 18 03:42	9° 8	
retrograde	16143 May 10 21:26	23° Ⅲ 39′07			16144 Apr 09 17:35	$\Pi^{\circ}0$	
asc. node	16143 May 15 14:21	22° Ⅱ 10′34		evening max el	16144 Apr 09 20:54	0° Ⅱ 08'04	26°51'48
evening set	16143 May 16 23:50	21° Ⅲ 08′28		retrograde	16144 Apr 23 03:32	7° Ⅱ 36'34	
min. Earth dist.	16143 May 21 04:25	16° Ⅲ 38'39	0.67521 AU	evening set	16144 Apr 29 15:07	5° Ⅱ 04'12	
inferior conj	16143 May 22 18:36	14° Ⅲ 38′12	2°01'07	asc. node	16144 May 01 11:31	3° Ⅱ 24'55	
minimum elong	16143 May 22 16:25	14° Ⅱ 45'07	1°59'49	min. Earth dist.	16144 May 03 14:13	1° Ⅱ 08'54	0.66078 AU
morning rise	16143 May 28 09:37	8° Ⅱ 50'16			16144 May 04 14:00	30° ₹ 8	
direct	16143 May 31 18:15	7° Ⅱ 45'48		inferior conj	16144 May 05 17:21	28° 8 39'36	1°16'09
morning max el	16143 Jun 07 10:31	11° Ⅲ 20′58	18°47'08	minimum elong	16144 May 05 15:34	28° 8 44'50	1°14'57
desc. node	16143 Jun 17 05:50	23° Ⅲ 58'11		morning rise	16144 May 11 17:20	23° 8 03'58	
	16143 Jun 21 06:06	0 \circ \odot		direct	16144 May 14 16:01	22° 8 16'20	
greatest brilliancy	16143 Jun 21 07:18	0° © 04'32	-0.8m	morning max el	16144 May 21 00:07	25° 8 35'04	18°09'55
morning set	16143 Jun 29 16:26	13° © 01'52			16144 May 24 20:12	Π °0	
	16143 Jul 10 14:15	0 \circ Ω		desc. node	16144 Jun 03 02:50	13° ∐ 49'06	
max. Earth dist.	16143 Jul 14 09:47	5° {\ 56'43	1.45867 AU	morning set	16144 Jun 09 03:42	23° Ⅱ 29'50	
	16142 7 1 15 20 22	00 011150	201.411.0		16144 Jun 13 05:01	0ං ව	
superior conj	16143 Jul 15 20:23	8° Ω 11'52			16144 7 24 05 40	15000000	200454
minimum elong	16143 Jul 15 20:47	8° Ω 13′26	2°14′55	superior conj	16144 Jun 24 05:48	17°526'36	
evening rise	16143 Jul 29 15:33	0°Mp 2°m-21124		minimum elong	16144 Jun 23 23:04	17°500'14 20°537'11	
asc. node	16143 Jul 31 05:26	2° Tp 31'34		max. Earth dist.	16144 Jun 26 06:35	20 3 3711 0° Ω	1.45964 AU
asc. node	16143 Aug 11 14:13	20° m/32'01			16144 Jul 02 07:17	12° Ω 29'44	
arranina marral	16143 Aug 18 09:45	0° Ω	10020150	evening rise	16144 Jul 10 08:46		
evening max el retrograde	16143 Aug 20 14:10 16143 Aug 27 01:12	2° £ 23'27 5° £ 51'26	16 29 36	greatest brilliancy	16144 Jul 21 18:34 16144 Jul 21 20:23	0°Mp 0°Mp06'46	-0.7m
evening set	•	3 = 51 20 4° Ω 56'15		asc. node	16144 Jul 28 10:56	9° Mg 36'56	-0.7111
evening set	16143 Aug 30 04:19 16143 Sep 04 09:15					16° M) 14'06	19°09'55
inferior conj	16143 Sep 04 09:13	30°R, Mp 29° Mp 20'52	2014/17	evening max el retrograde	16144 Aug 03 00:06 16144 Aug 09 21:56	20° Mp 02'41	19 09 33
minimum elong	16143 Sep 04 22.18 16143 Sep 05 00:36	29° m 13'55		evening set	16144 Aug 13 10:43	18° m 50'21	
min. Earth dist.	-	-		-	-	13° m ₂ 01'15	2045125
min. Earth dist.	16143 Sep 07 00:06 16143 Sep 10 19:37	26° m 51'07 22° m 57'05	0.65375 AU	inferior conj minimum elong	16144 Aug 18 21:31 16144 Aug 18 23:20	13° my 55'22	
desc. node	16143 Sep 10 19:37 16143 Sep 13 03:29	22° m) 22'47		min. Earth dist.	16144 Aug 18 23:20 16144 Aug 20 09:15	12° m) 05'37	
direct	16143 Sep 13 03:29 16143 Sep 17 05:41	-		min. Earth dist.	16144 Aug 20 09:15	6° Mp 34'27	0.07003 AU
morning max el	16143 Sep 17 05:41 16143 Sep 30 14:59	20° m/20'09 28° m/11'19	27002110	desc. node	16144 Aug 24 11:16 16144 Aug 30 00:51	4° Mp 00'12	
morning max er	16143 Sep 30 14:59 16143 Oct 02 08:40	0° ⊽	21 03 10	direct	•	3° m ₂ 59'18	
	16143 Oct 02 08:40 16143 Oct 24 00:10	0° ™			16144 Aug 30 12:24	3°10/59'18 11°10/29'03	25054127
morning set				morning max el	16144 Sep. 26, 22:30	0∘ ⊽	45 5451
morning set asc. node	16143 Nov 05 05:36	21°M48'03 26°M31'32			16144 Sep 26 22:30 16144 Oct 15 15:19	0° ™	
asc. nouc	16143 Nov 07 15:25 16143 Nov 09 08:53	20 IIL31 32 0° √		morning set	16144 Oct 18 01:03	4°ML21'28	
max. Earth dist.	16143 Nov 09 08.53	0° x ¹ 10′29	1.33502 AU	max. Earth dist.	16144 Oct 21 17:17		1.35412 AU
man. Durin dist.	201151101 07 10.57	0 7 10 29	1.55502 110	mas. Darm dist.	10111 000 21 17.17	11 110133/	1.55712 AU

asc. node	16144 Oct 24 12:12	16°M41'18			16145 Oct 07 18:33	0° M	
superior conj	16144 Oct 27 11:55	22°M40'46	0°26'55	superior conj	16145 Oct 10 19:38	5°M48'31	-0°05'00
minimum elong	16144 Oct 27 10:25	22°M33'11	0°27'10	minimum elong	16145 Oct 10 19:56	5°M50'01	0°04'34
C	16144 Oct 31 01:21	0° ∡ ¹		behind sun begin	16145 Oct 10 13:25	5° ™ 18'33	
evening rise	16144 Nov 04 04:43	8° ∡ ³36′27		behind sun end	16145 Oct 11 02:27	6°M21'32	
	16144 Nov 15 14:33	ರ°0		asc. node	16145 Oct 11 08:57	6°M53'07	
evening max el	16144 Nov 22 12:55	8° る 55'03	20°26'04	evening rise	16145 Oct 19 07:54	22°M40'53	
desc. node	16144 Nov 25 22:20	11° る 46'48			16145 Oct 23 00:58	0° ∡ ¹	
retrograde	16144 Dec 03 12:00	14° る 22'12		evening max el	16145 Nov 05 01:28	20° х 10′56	19°17'50
evening set	16144 Dec 05 19:34	14° る 08'43		desc. node	16145 Nov 12 19:27	24° ⊀ ⁴44'15	
inferior conj	16144 Dec 14 14:55	10° る 14'07		retrograde	16145 Nov 14 09:42	24° ₹ 52'11	
minimum elong	16144 Dec 14 05:31	10° る 27'53	5°11'30	evening set	16145 Nov 16 07:23	24° ∡ ⁴41'21	
min. Earth dist.	16144 Dec 16 01:38	9° පි 23'16	0.54655 AU	inferior conj	16145 Nov 24 20:10	20° х ³31′58	-3°44'12
morning rise	16144 Dec 22 15:06	6° る 14'31		minimum elong	16145 Nov 24 11:11	20° х 46′50	3°40'23
direct	16144 Dec 27 05:53	5° る 28'38		min. Earth dist.	16145 Nov 27 11:01	18° ≯ 48'08	0.55791 AU
morning max el	16145 Jan 09 17:11		23°46'21	morning rise	16145 Dec 02 12:39	16° ∡ °02′23	
asc. node	16145 Jan 20 11:30	25° る 44'11		direct	16145 Dec 08 01:28	14° ₹ 52'22	
	16145 Jan 23 01:54	0° ≈		morning max el	16145 Dec 22 02:19	21° ∡ ′59′07	25°32'44
morning set	16145 Feb 02 18:48	20°≈54'14			16145 Dec 29 03:14	0°ಕ	
	16145 Feb 06 23:19	0° ∀		asc. node	16146 Jan 07 08:43	14° る 06'39	
		>(16146 Jan 15 15:40	0° ≈	
superior conj	16145 Feb 09 14:47		1°29'03	morning set	16146 Jan 18 06:25	5° ≈ 32'35	
minimum elong	16145 Feb 09 16:31	5°) €55'31	1°29'15		16146 7 04 00 55	200 22120	100 (101
max. Earth dist.	16145 Feb 12 09:26		1.32786 AU	superior conj	16146 Jan 24 23:55	20°≈22'39	1°36'31
evening rise	16145 Feb 17 07:27	21° ¥ 54'15 0° Ƴ		minimum elong	16146 Jan 25 00:41	20°≈26'56	1°37'01
JJ.	16145 Feb 21 11:26	0°Υ52'38		max. Earth dist.	16146 Jan 26 12:09	23° ≈ 42'52	1.31673 AU
desc. node	16145 Feb 21 22:39	0°1'52'38 0° と			16146 Jan 29 09:27	0° 光 5° 光 52'32	
avanina may al	16145 Mar 11 23:03	13° 8 31'04	2792750	evening rise	16146 Feb 01 04:12	20°) 48′02	
evening max el retrograde	16145 Mar 23 09:52 16145 Apr 06 03:12	21° 8 03'33	21-21-39	desc. node	16146 Feb 08 19:20 16146 Feb 14 01:40	20°π48'02 0°Υ	
evening set	16145 Apr 12 21:00	18° 8 36'10		evening max el	16146 Mar 05 20:12	0 1 26° Υ 21'41	27°35'07
min. Earth dist.	16145 Apr 16 16:16	15° 8 11'52	0.64244 AU	evening max er	16146 Mar 10 03:03	0° 8	27 33 07
asc. node	16145 Apr 18 08:45	13° 8 25'16	0.04244 AO	retrograde	16146 Mar 19 19:27	3° 8 49'55	
inferior conj	16145 Apr 19 07:34	13° 8 23'16	0°17'50	evening set	16146 Mar 26 14:55	1° 8 35'12	
minimum elong	16145 Apr 19 07:03	12° 8 25'38	0°17'12	evening set	16146 Mar 28 18:22	30°RY	
morning rise	16145 Apr 25 19:20	7° 8 03'08	0 17 12	min. Earth dist.	16146 Mar 30 09:07	28° Y 36'03	0.62124 AU
direct	16145 Apr 28 09:02	6° 8 29'34		inferior conj	16146 Apr 02 10:04		-0°54'28
morning max el	16145 May 04 17:10	9° 8 44'23	17°49'53	minimum elong	16146 Apr 02 11:57	25° Y ′39'45	
5 5	16145 May 18 15:07	0°II		asc. node	16146 Apr 05 06:04	23° Y °12'04	
desc. node	16145 May 20 23:46	3° Ⅱ 57'50		morning rise	16146 Apr 09 12:05	20° Ƴ 39'54	
morning set	16145 May 21 18:15	5° Ⅱ 15'33		direct	16146 Apr 11 18:04	20° Y 17'01	
	•			morning max el	16146 Apr 18 10:40	23° Y '39'43	17°47'25
superior conj	16145 Jun 04 03:13	27° Ⅱ 18'38	-1°38'23	-	16146 Apr 23 13:02	0° 8	
minimum elong	16145 Jun 03 18:43	26° Ⅱ 44'29	1°38'15	morning set	16146 May 04 07:59	18° 8 05'56	
	16145 Jun 05 19:32	0 \circ \odot		desc. node	16146 May 07 20:37	24° 8 18'34	
max. Earth dist.	16145 Jun 09 02:20	5° © 12'24	1.45309 AU		16146 May 11 03:05	Π $^{\circ}0$	
evening rise	16145 Jun 19 20:52	21° 9 54'57					
	16145 Jun 25 04:35	$0^{\circ}\Omega$		superior conj	16146 May 15 22:27	8° Ⅱ 11'14	-1°02'26
greatest brilliancy	16145 Jul 04 10:09	13° Ω 41′29	-0.6m	minimum elong	16146 May 15 16:41	7° Ⅱ 47'03	
asc. node	16145 Jul 15 07:43	28° Ω 09'16		max. Earth dist.	16146 May 22 18:44	19° Ⅱ 26′29	1.43986 AU
evening max el	16145 Jul 17 04:27	0° Mp 08'02	20°05'31		16146 May 29 10:53	0 \circ	
	16145 Jul 17 01:14	0° ™		evening rise	16146 May 30 10:01	1° 5 29'41	
retrograde	16145 Jul 24 20:50	4° ™ 29'13			16146 Jun 18 17:50	0 ° Ω	
evening set	16145 Jul 28 19:52	2°m/59'08		evening max el	16146 Jun 30 02:46	14° Ω 02'02	21°14'23
	16145 Jul 31 18:55	30°R Ω		asc. node	16146 Jul 02 04:35	15° Ω 57'04	
inferior conj	16145 Aug 03 02:37	26° Ω 57'52		retrograde	16146 Jul 08 19:46	19° Ω 04'26	
minimum elong	16145 Aug 03 03:36	26° Ω 54'31	3°02'21	evening set	16146 Jul 13 05:43	17° Ω 16'55	2000122
min. Earth dist.	16145 Aug 04 00:31	25° Ω 43'26	0.68196 AU	inferior conj	16146 Jul 18 11:10	11° Ω 04'56	3°08'32
morning rise	16145 Aug 08 10:56	20° Ω 32'52		minimum elong	16146 Jul 18 11:12	11°Ω04'50	3°07'55
direct	16145 Aug 14 01:06	18° Ω 06'31		min. Earth dist.	16146 Jul 18 19:40	10° Ω 35'22	0.68919 AU
desc. node	16145 Aug 16 22:11	18° Ω 39'20	24921101	morning rise	16146 Jul 23 16:26	4°Ω45'06	
morning max el	16145 Aug 25 13:32	25° Ω 00'12	2 4 31 U1	direct desc. node	16146 Jul 28 18:41	2° Ω 32'58 4° Ω 56'25	
	16145 Aug 30 02:13 16145 Sep 20 09:26	0° ம 0° ™		morning max el	16146 Aug 03 19:30 16146 Aug 08 01:03	8° Ω 38'43	23001/51
morning set	16145 Sep 20 09.26 16145 Sep 30 02:59	0 <u>≈</u> 16° Ω 09'12		morning max ci	16146 Aug 24 19:22	0°M)	ال ۱۱ دے
max. Earth dist.	16145 Oct 03 16:54	22° £ 30'03	1.37690 AU	morning set	16146 Sep 11 07:13	رابات 27° ا ش 00'52	
man. Durur Ulst.	20113 000 03 10.34	 50 05	1.5,070 110	morning soc	10110 Sep 11 07.13	2, inj 00 32	

	16146 Sep 13 02:17	0∘ ⊽			16147 Aug 18 02:00	0° m)	
max. Earth dist.	16146 Sep 15 15:53	-	1.40105 AU	morning set	16147 Aug 22 11:35	6° Mp 52'01	
	r			max. Earth dist.	16147 Aug 28 20:04	17° Mp 06'11	1.42371 AU
superior conj	16146 Sep 23 12:21	18° ≏ 15'16	-0°40'49				
minimum elong	16146 Sep 23 15:29	18° ≏ 29'37	0°40'07	superior conj	16147 Sep 05 09:42	29° m 51'27	-1°17'31
asc. node	16146 Sep 28 05:40	27° ≏ 02'49		minimum elong	16147 Sep 05 16:02	0° £ 18'52	1°16'43
	16146 Sep 29 19:00	0° M			16147 Sep 05 11:41	0∘ ⊽	
evening rise	16146 Oct 03 03:22	6° M 24'11		asc. node	16147 Sep 15 02:22	17° ≏ 07'01	
	16146 Oct 17 02:05	0° ∡ ¹		evening rise	16147 Sep 16 11:20	19° ≏ 37'08	
evening max el	16146 Oct 19 02:45	2° ∡ 15'42	18°31'56		16147 Sep 22 05:42	0° M	
retrograde	16146 Oct 27 01:43	6° ∡ 17'42		evening max el	16147 Oct 02 12:34	15°M00'27	18°07'04
evening set	16146 Oct 29 00:40	6° ≯ 03'51		retrograde	16147 Oct 09 12:33	18° M 35'47	
desc. node	16146 Oct 30 16:39	5° ∡ ³31'35		evening set	16147 Oct 11 17:39	18° M 14'39	
inferior conj	16146 Nov 05 22:09	1° ∡ 33'54		desc. node	16147 Oct 17 13:55	14°M33'09	
minimum elong	16146 Nov 05 17:21		1°57'47	inferior conj	16147 Oct 18 21:35	13°M23'16	
i malitia	16146 Nov 07 22:35	30°RM	0.57612.411	minimum elong	16147 Oct 18 20:43	13°M25'12	
min. Earth dist.	16146 Nov 09 02:41	29°M07'01	0.57612 AU	min. Earth dist.	16147 Oct 22 02:48	10°M30'57	0.59817 AU
morning rise	16146 Nov 13 06:40	26°M27'41 24°M50'44		morning rise	16147 Oct 25 20:32	7°M43'42	
direct	16146 Nov 19 11:34 16146 Dec 01 03:00	24°11630'44 0° √		direct	16147 Nov 01 10:33 16147 Nov 15 16:47	5°M41'33	27947!44
morning max el	16146 Dec 01 03:00 16146 Dec 03 17:26	0 x . 2° x 20'14	260571/13	morning max el	16147 Nov 13 16.47 16147 Nov 28 22:09	13 1162/4/ 0° x 7	2/4/44
morning max er	16146 Dec 23 12:58	2 x 20 14 0°る	20 3743	asc. node	16147 Nov 28 22.09 16147 Dec 12 02:57	22° ∡ ³32'55	
asc. node	16146 Dec 25 05:52	0 S 3° S 06'19		asc. node	16147 Dec 12 02:37	22 × 32 33	
morning set	16147 Jan 02 16:03	20°පි01'18		morning set	16147 Dec 13 20:47 16147 Dec 17 21:46	0 3 4° 3 14'59	
morning sec	16147 Jan 07 05:08	0°≈		max. Earth dist.	16147 Dec 24 02:34	17°る47'02	1.31035 AU
	10117 3411 07 05.00	0 / 0 /		max. Butti dist.	10117 Dec 21 02.31	17 017 02	1.51055110
superior conj	16147 Jan 09 11:06	5°≈01'56	1°37'55	superior conj	16147 Dec 24 22:23	19° る 37'47	1°33'19
minimum elong	16147 Jan 09 10:49	5° ≈ 00'19	1°38'34	minimum elong	16147 Dec 24 21:07	19° る 30'39	1°33'57
max. Earth dist.	16147 Jan 09 19:04	5°≈46'31	1.31080 AU	C	16147 Dec 29 14:02	0° ≈	
evening rise	16147 Jan 16 07:32	20°≈05'56		evening rise	16147 Dec 31 15:12	4° ≈ 28'19	
-	16147 Jan 21 03:20	0°) €		desc. node	16148 Jan 13 12:52	29° ≈ 20′08	
desc. node	16147 Jan 26 16:04	10°) € 20′23			16148 Jan 13 22:30	0°) €	
	16147 Feb 08 12:35	$0^{\circ}\Upsilon$		evening max el	16148 Jan 28 23:22	19°) 43′01	26°06'38
evening max el	16147 Feb 16 01:36	8° Y 28′51	27°08'18	retrograde	16148 Feb 11 22:29	26°) 48′00	
retrograde	16147 Mar 02 02:36	15° Ƴ 46'52		evening set	16148 Feb 18 02:07	25°) 18′47	
evening set	16147 Mar 08 17:50	13° Y 52′15		min. Earth dist.	16148 Feb 22 12:32	22°) 40′51	0.57697 AU
min. Earth dist.	16147 Mar 12 15:57	11° Y 09'37	0.59870 AU	inferior conj	16148 Feb 25 13:23	20° ∺ 31′06	-3°50'15
inferior conj	16147 Mar 15 21:17	8° Ƴ 30'17		minimum elong	16148 Feb 25 21:59	20°) 15′44	3°47'11
minimum elong	16147 Mar 16 02:33	8° Ƴ 19'24	2°17'16	morning rise	16148 Mar 04 21:02	16°) €07'46	
asc. node	16147 Mar 23 03:24	3°Υ53'35		direct	16148 Mar 06 20:18	15° ¥ 55'11	
morning rise	16147 Mar 23 14:48	3° Y 45′26		asc. node	16148 Mar 09 00:46	16°) 11′27	10040101
direct	16147 Mar 25 15:18	3° Υ 29'34	10000122	morning max el	16148 Mar 15 08:43	20°) (06'44	18°40'01
morning max el	16147 Apr 02 01:11	7° Υ 11'17	18°03'32	. ,	16148 Mar 22 18:05	0° Υ 15° Υ 53'42	
morning sot	16147 Apr 16 16:31	0° 8 1° 8 44'06		morning set	16148 Mar 31 10:10 16148 Apr 07 17:55	0° 8	
morning set desc. node	16147 Apr 17 15:02 16147 Apr 24 17:25	14° 8 47'09			10148 Apr 07 17.33	0.0	
desc. node	1014/ Apr 24 17.23	14 04/09		superior conj	16148 Apr 09 07:21	2° 8 55'59	0°10'47
superior conj	16147 Apr 27 16:56	20° 8 07'00	-0°24'27	minimum elong	16148 Apr 09 08:04	2° 8 59'19	0°10'19
minimum elong	16147 Apr 27 14:53	19° 8 57'54		behind sun begin	16148 Apr 09 02:43	2° 8 34'19	J 1017
mmmum viong	16147 May 03 10:01	0° Ⅱ	0 2 . 5 ,	behind sun end	16148 Apr 09 13:25	3° 8 24'16	
max. Earth dist.	16147 May 05 06:54	3° Ⅱ 08′26	1.42134 AU	desc. node	16148 Apr 10 14:09	5° 8 19'00	
evening rise	16147 May 10 14:29	11° ∏ 49'15		max. Earth dist.	16148 Apr 16 15:02	16° 8 09'37	1.39940 AU
C	16147 May 22 10:27	0°€		evening rise	16148 Apr 20 15:52	23° 8 03'46	
evening max el	16147 Jun 12 20:09	27° © 56'28	22°32'24		16148 Apr 24 21:04	$\Pi^{\circ}0$	
	16147 Jun 15 01:16	$0^{\circ}\Omega$			16148 May 15 07:53	0 \circ \odot	
asc. node	16147 Jun 19 01:31	2° Ω 46′03		evening max el	16148 May 25 10:33	11° © 51'27	23°53'59
retrograde	16147 Jun 22 17:05	3° Ω 43'16		asc. node	16148 Jun 04 22:32	18° © 18'29	
evening set	16147 Jun 27 14:33	1° Ω 39'35		retrograde	16148 Jun 05 11:31	18° © 19'44	
	16147 Jun 29 06:39	30°Rூ		evening set	16148 Jun 10 20:42	16° © 02'16	
inferior conj	16147 Jul 02 21:09	25°518'36	3°03'20	min. Earth dist.	16148 Jun 15 12:54	10°535'00	0.68900 AU
minimum elong	16147 Jul 02 20:15	25°©21'44	3°02'34	inferior conj	16148 Jun 16 06:36	9° © 34'41	2°47'43
min. Earth dist.	16147 Jul 02 16:31	25°534'46	0.69157 AU	minimum elong	16148 Jun 16 04:56	9°5540'21	2°46'43
morning rise	16147 Jul 08 01:48	19° © 06'05		morning rise	16148 Jun 21 13:11	3°930'56	
direct	16147 Jul 12 15:53	17°511'50	21025/20	direct	16148 Jun 25 15:18	1°956'21	2001002
morning max el	16147 Jul 21 15:39	22°525'28	21~35'39	morning max el	16148 Jul 03 12:15	6°522'54	20°19'02
desc. node	16147 Jul 21 16:47	22°528'17		desc. node	16148 Jul 07 13:59	10°955'29	
	16147 Jul 28 04:54	$0^{\circ}\Omega$			16148 Jul 21 07:40	0 ° Ω	

morning set	16148 Jul 31 20:42	15° Ω 56'11		morning max el	16149 Jun 16 16:06	20° Ⅲ 30′34	19°16'08
	16148 Aug 09 20:22	0° m ∕		desc. node	16149 Jun 24 11:07	0° © 03'25	
max. Earth dist.	16148 Aug 10 07:18	0° mp 43'35	1.44218 AU		16149 Jun 24 10:08	0 \circ \odot	
	•			greatest brilliancy	16149 Jun 29 09:32	7° © 10'39	-0.7m
superior conj	16148 Aug 16 08:03	10° m) 29'24	-1°49'50	morning set	16149 Jul 11 01:36	24°953'50	
minimum elong	16148 Aug 16 15:55	11° m 01'45		morning sec	16149 Jul 14 09:03	0°Ω	
minimum ciong	16148 Aug 27 21:27	0° <u>م</u>	1 47 20	max. Earth dist.	16149 Jul 23 23:46		1.45463 AU
	•			max. Earm dist.	10149 Jul 23 23.40	14 663030	1.43403 AU
evening rise	16148 Aug 29 02:59	2° Ω 07'38			16140 7 1 25 25 40	200 0100 5	201.012.0
asc. node	16148 Aug 31 23:03	7° Ω 01'49		superior conj	16149 Jul 27 07:48	20° Ω 12'05	
evening max el	16148 Sep 15 02:41	28° ≏ 14'53	18°01'39	minimum elong	16149 Jul 27 12:25	20° Ω 30'19	2°10'51
	16148 Sep 17 03:50	0° M			16149 Aug 02 11:13	0° ™	
retrograde	16148 Sep 21 14:17	1°M37'13		evening rise	16149 Aug 10 20:57	13° m)41'35	
evening set	16148 Sep 24 03:17	1°ML05'13		asc. node	16149 Aug 18 19:43	26° Mp 41'57	
	16148 Sep 26 02:15	30° ŖΩ			16149 Aug 20 21:43	0∘ ত	
inferior conj	16148 Sep 30 15:26	25° ♀ 54'40	0°51'42	evening max el	16149 Aug 29 17:24	11° ≏ 48'59	18°14'34
minimum elong	16148 Sep 30 16:53	25° ♀ 50'57	0°51'26	retrograde	16149 Sep 05 02:15	15° ≏ 11'27	
desc. node	16148 Oct 03 11:14	23° ♀ 01'24		evening set	16149 Sep 07 23:57	14° ≏ 25'33	
min. Earth dist.	16148 Oct 03 12:58	22° ♀ 57'05	0.62108 AU	inferior conj	16149 Sep 13 23:33	8° ₽ 58'39	1°49'15
morning rise	16148 Oct 07 03:55	19° ⊆ 50'16	0.02100710	minimum elong	16149 Sep 14 01:50	8° ≏ 52'05	1°48'36
•	16148 Oct 17 03:33	17° ⊆ 28'18		min. Earth dist.		6° ⊆ 32'03	0.64258 AU
direct			27050116		16149 Sep 16 09:08		0.04238 AU
morning max el	16148 Oct 27 23:04		27°58'16	morning rise	16149 Sep 20 02:00	2° Ω 39'12	
	16148 Nov 01 04:42	0° ™		desc. node	16149 Sep 20 08:35	2° Ω 26'30	
	16148 Nov 21 10:10	0° ∡		direct	16149 Sep 26 15:34	0° ჲ 05'07	
asc. node	16148 Nov 27 23:56	12° ∡ 18'57		morning max el	16149 Oct 10 09:18	8° ഫ 02'55	27°32'08
morning set	16148 Nov 30 21:30	18° ∡ 09'14			16149 Oct 27 10:09	0° M ₊	
	16148 Dec 06 11:15	8°0			16149 Nov 13 16:53	0° ∡ 7	
max. Earth dist.	16148 Dec 06 06:51	29° ∡ ³35'58	1.31549 AU	morning set	16149 Nov 14 12:44	1° ∡ ³37'44	
				asc. node	16149 Nov 14 20:50	2° ∡ 17'55	
superior conj	16148 Dec 08 07:55	4° る 05'27	1°22'39	max. Earth dist.	16149 Nov 19 03:57	11° ∡ *04'42	1.32627 AU
minimum elong	16148 Dec 08 05:53	3°₹54'14	1°23'08				
evening rise	16148 Dec 15 01:22	18° る 55'24	1 23 00	superior conj	16149 Nov 22 13:37	18° ∡ 19'09	1°05'50
evening rise	16148 Dec 20 08:56	0°≈		minimum elong	16149 Nov 22 11:15	18° х ¹06′23	1°06'09
desc. node	16148 Dec 30 09:42	0 ~ 17° ≈ 35'33		minimum clong	16149 Nov 27 22:39	0°る	1 00 07
desc. node		0° \				3°る22'15	
	16149 Jan 09 09:49		24026120	evening rise	16149 Nov 29 12:08		
evening max el	16149 Jan 09 12:40	0°) €06'50	24°36'38		16149 Dec 13 18:31	0°≈	
retrograde	16149 Jan 23 05:32	6°) 57′03		desc. node	16149 Dec 17 06:37	4°≈50'32	
evening set	16149 Jan 28 12:25	5° ¥ 55'26		evening max el	16149 Dec 21 22:00	10° ≈ 02'54	22°53'29
min. Earth dist.	16149 Feb 03 00:33	3° ∺ 05'55	0.55875 AU	retrograde	16150 Jan 03 23:49	16° ≈ 31′03	
inferior conj	16149 Feb 05 08:10	1°) 39′27	-5°11'49	evening set	16150 Jan 08 01:16	15° ≈ 55'11	
minimum elong	16149 Feb 05 17:07	1° ¥ 25'32	5°09'26	min. Earth dist.	16150 Jan 15 07:32	12° ≈ 34′28	0.54694 AU
	16149 Feb 08 02:20	30° Ŗ ≈		inferior conj	16150 Jan 16 08:07	11° ≈ 59'31	-5°58'43
morning rise	16149 Feb 14 00:01	27° ≈ 36'52		minimum elong	16150 Jan 16 11:03	11° ≈ 55'19	5°57'58
direct	16149 Feb 16 05:31	27° ≈ 23'28		morning rise	16150 Jan 24 22:06	8° ≈ 10'15	
asc. node	16149 Feb 23 22:06	0° ¥ 15'40		direct	16150 Jan 27 20:40	7° ≈ 50'12	
	16149 Feb 23 13:35	0°) €		morning max el	16150 Feb 08 10:53	13° ≈ 26′01	21°01'02
morning max el	16149 Feb 26 05:04		19°38'53	asc. node	16150 Feb 10 19:24	15°≈55'14	21 01 02
morning max er	16149 Mar 15 08:52	0°Υ	17 30 33	ase. Hode	16150 Feb 20 06:03	0° ∀	
morning sat	16149 Mar 15 13:25	0° Υ 22'56		morning set		15° ¥ 03'04	
morning set	10147 WIAI 13 13.23	0 1 22 30		morning set	16150 Feb 27 21:49	15 八 05 04	
	1614034 22 12 22	16° Ƴ 26'11	0940145		16150 34 07 06 40	000000117	190422
superior conj	16149 Mar 23 13:20		0°40'45	superior conj	16150 Mar 07 06:48	0° Υ 26'17	
minimum elong	16149 Mar 23 15:30	16° ℃ 36'51	0°40'15	minimum elong	16150 Mar 07 09:20	0° Υ 39'20	1°04'14
desc. node	16149 Mar 28 10:51	25° Y ′50′36			16150 Mar 07 01:42	0° Υ	
max. Earth dist.	16149 Mar 29 21:16	28° Y 30'32	1.37638 AU	max. Earth dist.	16150 Mar 12 05:59	10° Y 25′08	1.35474 AU
	16149 Mar 30 16:46	9° 8		desc. node	16150 Mar 15 07:31	16° Ƴ 18'17	
evening rise	16149 Apr 02 13:43	5° 8 09'53		evening rise	16150 Mar 16 05:04	17° Ƴ 59'14	
	16149 Apr 17 20:35	$\Pi^{\circ}0$			16150 Mar 22 22:41	9° 8	
evening max el	16149 May 07 23:54	25° Ⅱ 45'48	25°12'26		16150 Apr 12 01:56	$\Pi^{\circ}0$	
	16149 May 12 22:31	0ಂತಾ		evening max el	16150 Apr 20 13:27	9° Ⅱ 35'51	26°20'26
retrograde	16149 May 20 02:02	2° 5 47'17		retrograde	16150 May 03 11:42	16° Ⅱ 58'45	
asc. node	16149 May 22 19:36	2°9516'22		evening set	16150 May 09 18:16	14° Ⅱ 26′23	
evening set	16149 May 25 22:31	0°9519'46		asc. node	16150 May 09 16:43	14° ∏ 29'32	
J. J	16149 May 26 07:29	30°RⅡ		min. Earth dist.	16150 May 13 20:13	10° Ⅱ 11'37	0.66954 AU
min. Earth dist.	16149 May 30 06:48	25° ∏ 29'32	0.68158 AU	inferior conj	16150 May 15 16:02	7° П 57'30	1°43'37
					,		
inferior conj	16149 May 31 13:34	23° Ⅱ 49'03	2°21'24	minimum elong	16150 May 15 13:55	8° Ⅱ 03'57	1°42'19
minimum elong	16149 May 31 11:27	23° II 55'59	Z-20.10	morning rise	16150 May 21 10:32	2° ∏ 14'40	
morning rise	16149 Jun 06 00:45	17° ∏ 55'09		direct	16150 May 24 14:42	1° Ⅱ 17'51	
direct	16149 Jun 09 15:28	16° ∏ 40′12		morning max el	16150 May 31 02:41	4° ∏ 44'47	18°29'14

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desc. node	16150 Jun 11 08:11	19° Ⅱ 41'35			16151 May 23 03:36	Π $\circ 0$	
	16150 Jun 17 23:09	0		desc. node	16151 May 29 05:09	9° Ⅱ 41′04	
morning set	16150 Jun 20 22:08	4° © 39'14		morning set	16151 Jun 01 21:12	15° Ⅱ 41′08	
					16151 Jun 10 16:54	0	
superior conj	16150 Jul 06 18:02	29° 5 26'04	-2°12'46				
minimum elong	16150 Jul 06 15:02	29° © 14'21	2°13'22	superior conj	16151 Jun 16 06:46	8° 9 52'24	-1°55'21
max. Earth dist.	16150 Jul 06 19:09	29° 5 30'26	1.45996 AU	minimum elong	16151 Jun 15 22:31	8° © 19'50	1°55'28
	16150 Jul 07 02:45	$0 {\circ} \Omega$		max. Earth dist.	16151 Jun 19 15:30	14° © 09'35	1.45778 AU
evening rise	16150 Jul 22 13:51	24° Ω 12'29			16151 Jun 29 20:39	0 $^{\circ}$ Ω	
	16150 Jul 26 06:03	0° m ∕		evening rise	16151 Jul 02 08:57	3° Ω 51'43	
greatest brilliancy	16150 Jul 31 01:49	7° m ,33′21	-0.8m	greatest brilliancy	16151 Jul 15 18:55	24° Ω 09'35	-0.7m
asc. node	16150 Aug 05 16:25	16° Mp 02'05			16151 Jul 19 20:40	0° m y	
evening max el	16150 Aug 13 05:49	25° m 35'45	18°44'57	asc. node	16151 Jul 23 13:10	4° m 54′28	
retrograde	16150 Aug 19 20:36	29° Mp 11'10		evening max el	16151 Jul 27 13:36	9° m , 28′42	19°31'49
evening set	16150 Aug 23 03:40	28° Mp 09'03		retrograde	16151 Aug 03 18:24	13° m 29'29	
inferior conj	16150 Aug 28 18:12	22° m 27'47	2°29'17	evening set	16151 Aug 07 11:29	12° m 09'43	
minimum elong	16150 Aug 28 20:22	22° m 21'04	2°28'38	inferior conj	16151 Aug 12 20:14	6° Mp 15′33	2°54'22
min. Earth dist.	16150 Aug 30 14:08	20° Mp 11'04	0.66116 AU	minimum elong	16151 Aug 12 21:44	6° Mp 10′37	2°53'47
morning rise	16150 Sep 03 12:02	16° Mp 01'49		min. Earth dist.	16151 Aug 14 02:08	4° Mg 36′35	0.67573 AU
desc. node	16150 Sep 07 05:56	13° Mp 48'56		morning rise	16151 Aug 18 07:25	29° Ω 49'08	
direct	16150 Sep 09 18:39	13° m 24'21			16151 Aug 18 02:34	30° ₹ Ω	
morning max el	16150 Sep 22 20:44	21° m 09'03	26°36'22	direct	16151 Aug 24 04:12	27° Ω 16'43	
	16150 Sep 30 13:23	0∘ 亚		desc. node	16151 Aug 25 03:18	27° Ω 20′22	
	16150 Oct 20 14:12	0° M			16151 Aug 31 03:00	0° m)	
morning set	16150 Oct 28 16:26	14°M33'41		morning max el	16151 Sep 05 07:49	4° Mp 32'34	25°20'12
max. Earth dist.	16150 Nov 01 15:19	22°M13'25	1.34253 AU		16151 Sep 24 21:59	0∘ 亚	
asc. node	16150 Nov 01 17:40	22°M25'07		morning set	16151 Oct 11 04:56	26° ≏ 48'42	
	16150 Nov 05 11:29	0° ∡ ¹			16151 Oct 12 23:07	0° M ₊	
				max. Earth dist.	16151 Oct 14 17:55	3° M ₊17'56	1.36347 AU
superior conj	16150 Nov 06 13:09	2° ҂ 13'04	0°42'51	asc. node	16151 Oct 19 14:28	12°MJ36'26	
minimum elong	16150 Nov 06 11:06	2° ҂ 02'22	0°43'05				
evening rise	16150 Nov 13 21:40	17° ∡ ⁴44'34		superior conj	16151 Oct 21 03:39	15° M 40'19	0°13'59
	16150 Nov 19 22:56	8°0		minimum elong	16151 Oct 21 02:48	15°M36'01	0°14'19
evening max el	16150 Dec 03 13:03	20° ろ 09'30	21°15'12	behind sun begin	16151 Oct 20 23:50	15° M 21'18	
desc. node	16150 Dec 04 03:37	20° ප් 44'31		behind sun end	16151 Oct 21 05:45	15°M50'44	
retrograde	16150 Dec 15 09:46	26° る 01'35			16151 Oct 28 04:55	0° ∡ ¹	
evening set	16150 Dec 18 05:29	25° る 43'06		evening rise	16151 Oct 29 03:53	1° ∡ ′57'24	
inferior conj	16150 Dec 26 22:57	21° る 52'46	-5°47'52		16151 Nov 14 19:27	0°ಕ	
minimum elong	16150 Dec 26 16:41	22° る 01'36	5°46'22	evening max el	16151 Nov 15 17:16	0° る 56'53	19°54'23
min. Earth dist.	16150 Dec 27 12:55	21° る 33'03	0.54395 AU	desc. node	16151 Nov 21 00:41	4° る 53'21	
morning rise	16151 Jan 04 04:09	18° る 02'13		retrograde	16151 Nov 25 23:19	6° る 03'45	
direct	16151 Jan 08 04:18	17° る 27'30		evening set	16151 Nov 28 01:09	5° る 52'09	
morning max el	16151 Jan 21 02:35	23° る 45'06	22°42'54	inferior conj	16151 Dec 06 19:12	1° る 52'36	-4°39'43
	16151 Jan 26 14:44	0° ≈		minimum elong	16151 Dec 06 09:11	2° る 07'57	
asc. node	16151 Jan 28 16:41	2°≈51'55		min. Earth dist.	16151 Dec 08 19:38	0° る 38'36	0.55038 AU
morning set	16151 Feb 12 08:59	29° ≈ 46′50			16151 Dec 09 21:44	30°₽ ⋌ 7	
	16151 Feb 12 11:27	0° ∀		morning rise	16151 Dec 14 16:00	27° ∡ ¹42'13	
				direct	16151 Dec 19 17:09	26° ∡ ¹46'25	
superior conj	16151 Feb 19 08:22	14°) (46′14			16151 Dec 29 00:52	0°ಕ	
minimum elong	16151 Feb 19 10:32	14°) ₹ 57'47	1°21'56	morning max el	16152 Jan 02 11:05		24°33'01
max. Earth dist.	16151 Feb 22 21:26	22°) 13'43	1.33644 AU	asc. node	16152 Jan 15 13:57	20° る 47'55	
	16151 Feb 26 17:40	0° Υ			16152 Jan 20 18:21	0° ≈	
evening rise	16151 Feb 27 10:19	1° Y ′21'45		morning set	16152 Jan 27 21:00	14° ≈ 29'08	
desc. node	16151 Mar 02 04:10	6° Ƴ 37'24					
	16151 Mar 15 22:16	0°8		superior conj	16152 Feb 03 15:25		1°32'57
evening max el	16151 Apr 03 03:11	23° 8 12'41	27°10'25	minimum elong	16152 Feb 03 16:47		1°33'18
	16151 Apr 12 19:03	Π °0			16152 Feb 03 22:55	0° ∀	
retrograde	16151 Apr 16 15:23	0° ∏ 44'25		max. Earth dist.	16152 Feb 05 20:46	4° 米 09'34	1.32255 AU
	16151 Apr 20 06:16	30° ₹ 8		evening rise	16152 Feb 11 02:17	15° 米 09'33	
evening set	16151 Apr 23 05:51	28° 8 13'31		desc. node	16152 Feb 17 00:51	26°) 43'34	
asc. node	16151 Apr 26 13:56	25° 8 07'14			16152 Feb 18 19:48	0° Υ	
min. Earth dist.	16151 Apr 27 03:06	24° 8 31'40	0.65335 AU		16152 Mar 09 17:42	0°8	
inferior conj	16151 Apr 29 11:31	21° 8 53'07	0°53'09	evening max el	16152 Mar 15 15:34		27°34'57
minimum elong	16151 Apr 29 10:09	21° 8 56'58	0°52'07	retrograde	16152 Mar 29 11:51	13° 8 55'21	
morning rise	16151 May 05 16:10	16° 8 23'08		evening set	16152 Apr 05 06:57	11° 8 32'46	
direct	16151 May 08 10:50	15° 8 41'55		min. Earth dist.	16152 Apr 09 01:32		0.63376 AU
morning max el	16151 May 14 18:03	18° 8 57'52	17°59'13	inferior conj	16152 Apr 11 21:13	5° 8 28'50	-0°11'05

minimum elong	16152 Apr 11 21:34	5° 8 27'55	0°11'19	min. Earth dist.	16153 Mar 22 13:57	21° Y 24'05	0.61177 AU
transit middle	16152 Apr 11 21:34	5° 8 27'55	0°11'19	inferior conj	16153 Mar 25 17:39	18° Ƴ 35′29	-1°29'07
transit begin	16152 Apr 11 19:20	5° 8 33'37		minimum elong	16153 Mar 25 20:52	18° Ƴ 28'17	1°27'59
transit end	16152 Apr 11 23:48	5° 8 22'14		asc. node	16153 Mar 30 08:32	14° Y 56'06	
asc. node	16152 Apr 12 11:12	4° 8 53'31		morning rise	16153 Apr 02 02:13	13° Ƴ 39'14	
morning rise	16152 Apr 18 14:44	0° 8 14'11		direct	16153 Apr 04 05:41	13° Υ 19'40	
morning rise	16152 Apr 19 07:42	30°RΥ		morning max el	16153 Apr 11 04:17	16° Υ 48'40	17°51'56
direct	-	29° Y 45′28		morning max ci	-	0°8	17 31 30
direct	16152 Apr 21 01:02			. ,	16153 Apr 20 12:47	_	
	16152 Apr 22 18:10	0°8		morning set	16153 Apr 26 20:06	11° 8 09'46	
morning max el	16152 Apr 27 11:37	3° 8 02'10	17°46'33	desc. node	16153 May 01 22:54	20° 8 20'33	
morning set	16152 May 13 22:19	27° 8 56'47			16153 May 07 11:23	Π °0	
desc. node	16152 May 15 02:03	29° 8 55'42					
	16152 May 15 03:04	Π $^{\circ}0$		superior conj	16153 May 07 18:05	0° Ⅱ 28'42	-0°46'13
				minimum elong	16153 May 07 13:56	0°耳10′55	0°46'11
superior conj	16152 May 26 12:43	19° Ⅲ 08′13	-1°23'48	max. Earth dist.	16153 May 15 01:34	12° Ⅱ 42'40	1.43255 AU
minimum elong	16152 May 26 05:04	18° Ⅱ 36′53	1°23'34	evening rise	16153 May 21 13:48	23° I 107'05	
max. Earth dist.	16152 Jun 01 10:26	28° Ⅱ 39′01	1.44832 AU	·	16153 May 26 00:33	0ංම	
	16152 Jun 02 06:52	0° ©			16153 Jun 16 02:46	$0^{\circ}\Omega$	
evening rise	16152 Jun 10 19:24	13°915'59		evening max el	16153 Jun 22 11:24	7° Ω 17'28	21°46'42
evening rise	16152 Jun 21 22:37	0°Ω		asc. node	16153 Jun 26 06:53	10° Ω 34'48	21 10 12
asc. node	16152 Jul 09 10:00	23° Ω 09'34		retrograde	16153 Jul 01 15:57	12° Ω 38'47	
			20022124	•			
evening max el	16152 Jul 09 15:26	23° Ω 23'14	20°33'24	evening set	16153 Jul 06 06:50	10° Ω 43'54	2005125
retrograde	16152 Jul 17 17:27	28° Ω 00'37		inferior conj	16153 Jul 11 12:28	4° Ω 27'41	3°07'35
evening set	16152 Jul 21 21:11	26° Ω 22'50		minimum elong	16153 Jul 11 12:06	4° Ω 28'59	3°06'56
inferior conj	16152 Jul 27 03:04	20° Ω 16'55	3°06'38	min. Earth dist.	16153 Jul 11 15:15	4° Ω 17'57	0.69080 AU
minimum elong	16152 Jul 27 03:39	20° Ω 14'55	3°06'04		16153 Jul 14 22:03	30° ₹ ∽	
min. Earth dist.	16152 Jul 27 19:10	19° Ω 21'29	0.68571 AU	morning rise	16153 Jul 16 17:11	28° © 10'53	
morning rise	16152 Aug 01 09:49	13° Ω 54′04		direct	16153 Jul 21 14:10	26° © 06'20	
direct	16152 Aug 06 19:03	11° Ω 33'18		desc. node	16153 Jul 28 21:58	29° © 36'15	
desc. node	16152 Aug 11 00:39	12° Ω 44'12			16153 Jul 29 08:57	$0^{\circ}\Omega$	
morning max el	16152 Aug 17 18:46	18° Ω 06'49	23°53'11	morning max el	16153 Jul 31 07:25	1° Ω 49'47	22°24'26
C	16152 Aug 27 18:19	0° m)		Č	16153 Aug 21 15:50	0° m	
	16152 Sep 16 23:28	0∘ <u>⊽</u>		morning set	16153 Sep 02 16:13	18° m) 39'57	
morning set	16152 Sep 21 22:02	8° £ 13'11		max. Earth dist.	16153 Sep 07 18:01	-•	1.41104 AU
max. Earth dist.	16152 Sep 25 16:49	14° £ 46'21	1.38723 AU	max. Earth dist.	16153 Sep 09 12:08	0∘ ರ	1.11101710
max. Earth dist.	10132 вер 23 10.4)	14 = 4021	1.50725710		10155 Бер 07 12.00	٥ –	
superior conj	16152 Oct 03 05:31	28° ₽ 31'52	-0°10'51	superior conj	16153 Sep 15 14:33	10° ≏ 38'36	-0°56'31
		28° ⊆ 31'32 28° ⊆ 38'28			16153 Sep 15 14:35	10° ⊆ 58'51	
minimum elong	16152 Oct 03 06:55		0-19-18	minimum elong	10133 Sep 13 19:03	10-34-38-31	
	16152 0 4 04 00 07			1	•		0°55'44
	16152 Oct 04 00:07	0°M		asc. node	16153 Sep 22 07:55	22° ≏ 56'04	0°55'44
asc. node	16152 Oct 05 11:12	2°M47'47		asc. node evening rise	16153 Sep 22 07:55 16153 Sep 25 19:22	22° £ 56'04 29° £ 26'35	0°55'44
asc. node evening rise	16152 Oct 05 11:12 16152 Oct 12 04:12	2°M47'47 15°M54'01		evening rise	16153 Sep 22 07:55 16153 Sep 25 19:22 16153 Sep 26 02:30	22° £ 56'04 29° £ 26'35 0° ™	
	16152 Oct 05 11:12 16152 Oct 12 04:12 16152 Oct 19 15:16	2° ጤ 47'47 15° ጤ 54'01 0° <i>ጃ</i>		evening rise evening max el	16153 Sep 22 07:55 16153 Sep 25 19:22 16153 Sep 26 02:30 16153 Oct 11 16:59	22° Ω 56'04 29° Ω 26'35 0° M 24° M 56'46	0°55'44 18°18'47
	16152 Oct 05 11:12 16152 Oct 12 04:12	2°M47'47 15°M54'01	18°55'35	evening rise	16153 Sep 22 07:55 16153 Sep 25 19:22 16153 Sep 26 02:30	22° £ 56'04 29° £ 26'35 0° ™	
evening rise evening max el retrograde	16152 Oct 05 11:12 16152 Oct 12 04:12 16152 Oct 19 15:16	2° ጤ 47'47 15° ጤ 54'01 0° <i>ጃ</i>	18°55'35	evening rise evening max el	16153 Sep 22 07:55 16153 Sep 25 19:22 16153 Sep 26 02:30 16153 Oct 11 16:59	22° Ω 56'04 29° Ω 26'35 0° M 24° M 56'46	
evening rise evening max el	16152 Oct 05 11:12 16152 Oct 12 04:12 16152 Oct 19 15:16 16152 Oct 28 11:37	2°M47'47 15°M54'01 0° ✓ 12° ✓ 33'49	18°55'35	evening rise evening max el retrograde	16153 Sep 22 07:55 16153 Sep 25 19:22 16153 Sep 26 02:30 16153 Oct 11 16:59 16153 Oct 19 05:05	22° £ 56'04 29° £ 26'35 0° M 24° M 56'46 28° M 46'13	
evening rise evening max el retrograde	16152 Oct 05 11:12 16152 Oct 12 04:12 16152 Oct 19 15:16 16152 Oct 28 11:37 16152 Nov 06 04:29	2°M47'47 15°M54'01 0°×' 12°×'33'49 16°×'57'15	18°55'35	evening rise evening max el retrograde evening set	16153 Sep 22 07:55 16153 Sep 25 19:22 16153 Sep 26 02:30 16153 Oct 11 16:59 16153 Oct 19 05:05 16153 Oct 21 06:08	22° Ω 56'04 29° Ω 26'35 0° M 24° M 56'46 28° M 46'13 28° M 29'51	18°18'47
evening rise evening max el retrograde desc. node	16152 Oct 05 11:12 16152 Oct 12 04:12 16152 Oct 19 15:16 16152 Oct 28 11:37 16152 Nov 06 04:29 16152 Nov 06 21:51	2°M47'47 15°M54'01 0° \$\mathref{X}\$ 12° \$\mathref{X}\$33'49 16° \$\mathref{X}\$57'15 16° \$\mathref{X}\$55'31		evening rise evening max el retrograde evening set desc. node	16153 Sep 22 07:55 16153 Sep 25 19:22 16153 Sep 26 02:30 16153 Oct 11 16:59 16153 Oct 19 05:05 16153 Oct 21 06:08 16153 Oct 24 19:04	22° \$\Omega 56'04 29° \$\Omega 26'35 0° \$\mathref{m}\$ 24° \$\mathref{m}\$ 56'46 28° \$\mathref{m}\$ 46'13 28° \$\mathref{m}\$ 29'51 26° \$\mathref{m}\$ 52'36	18°18'47 -1°18'06
evening rise evening max el retrograde desc. node evening set	16152 Oct 05 11:12 16152 Oct 12 04:12 16152 Oct 19 15:16 16152 Oct 28 11:37 16152 Nov 06 04:29 16152 Nov 06 21:51 16152 Nov 08 01:53	2°M47'47 15°M54'01 0° \$\mathrightarrow{\mathri	-3°00'06	evening rise evening max el retrograde evening set desc. node inferior conj	16153 Sep 22 07:55 16153 Sep 25 19:22 16153 Sep 26 02:30 16153 Oct 11 16:59 16153 Oct 19 05:05 16153 Oct 21 06:08 16153 Oct 24 19:04 16153 Oct 28 20:06	22° \$\Omega 56'04 29° \$\Omega 26'35 0° \$\mathref{m}\$. 24° \$\mathref{m}\$.56'46 28° \$\mathref{m}\$.29'51 26° \$\mathref{m}\$.52'36 23° \$\mathref{m}\$.50'29	18°18'47 -1°18'06
evening rise evening max el retrograde desc. node evening set inferior conj minimum elong	16152 Oct 05 11:12 16152 Oct 12 04:12 16152 Oct 19 15:16 16152 Oct 28 11:37 16152 Nov 06 04:29 16152 Nov 06 21:51 16152 Nov 08 01:53 16152 Nov 16 08:43 16152 Nov 16 01:22	2°M47'47 15°M54'01 0° \$\frac{1}{2}\$\text{2}\$33'49 16° \$\frac{1}{2}\$5'31 16° \$\frac{1}{2}\$45'37 12° \$\frac{1}{2}\$27'27 12° \$\frac{1}{2}\$40'27	-3°00'06 2°56'40	evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist.	16153 Sep 22 07:55 16153 Sep 25 19:22 16153 Sep 26 02:30 16153 Oct 11 16:59 16153 Oct 19 05:05 16153 Oct 21 06:08 16153 Oct 24 19:04 16153 Oct 28 20:06 16153 Oct 28 17:09 16153 Nov 01 02:10	22° \$\Omega 56'04 29° \$\Omega 26'35 0° \$\mathbb{m}\$. 24° \$\mathbb{m}\$.56'46 28° \$\mathbb{m}\$.46'13 28° \$\mathbb{m}\$.29'51 26° \$\mathbb{m}\$.50'29 23° \$\mathbb{m}\$.56'35 21° \$\mathbb{m}\$.10'16	18°18'47 -1°18'06 1°16'20
evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist.	16152 Oct 05 11:12 16152 Oct 12 04:12 16152 Oct 19 15:16 16152 Oct 28 11:37 16152 Nov 06 04:29 16152 Nov 06 21:51 16152 Nov 16 08:43 16152 Nov 16 01:22 16152 Nov 19 07:00	2°M47'47 15°M54'01 0° \(\tilde{\sigma}\) 12° \(\tilde{\sigma}\) 33'49 16° \(\tilde{\sigma}\) 55'31 16° \(\tilde{\sigma}\) 45'37 12° \(\tilde{\sigma}\) 27'27 12° \(\tilde{\sigma}\) 40'27 10° \(\tilde{\sigma}\) 23'55	-3°00'06	evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	16153 Sep 22 07:55 16153 Sep 25 19:22 16153 Sep 26 02:30 16153 Oct 11 16:59 16153 Oct 19 05:05 16153 Oct 21 06:08 16153 Oct 24 19:04 16153 Oct 28 20:06 16153 Oct 28 17:09 16153 Nov 01 02:10 16153 Nov 05 00:41	22° \$\Omega 56'04 29° \$\Omega 26'35 0° \$\mathbb{m}\$. 26'\text{13} 28° \$\mathbb{m}\$. 29'\text{51} 26° \$\mathbb{m}\$. 56'\text{36} 23° \$\mathbb{m}\$. 56'\text{35} 21° \$\mathbb{m}\$. 10'\text{16} 18° \$\mathbb{m}\$. 28'\text{51}	18°18'47 -1°18'06 1°16'20
evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise	16152 Oct 05 11:12 16152 Oct 12 04:12 16152 Oct 19 15:16 16152 Oct 28 11:37 16152 Nov 06 04:29 16152 Nov 06 21:51 16152 Nov 08 01:53 16152 Nov 16 08:43 16152 Nov 16 01:22 16152 Nov 19 07:00 16152 Nov 23 22:02	2° M.47'47 15° M.54'01 0° \$\mathrightarrow{A}\$ 12° \$\mathrightarrow{A}\$33'49 16° \$\mathrightarrow{A}\$55'31 16° \$\mathrightarrow{A}\$27'27 12° \$\mathrightarrow{A}\$27'27 10° \$\mathrightarrow{A}\$23'55 7° \$\mathrightarrow{A}\$24'42	-3°00'06 2°56'40	evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	16153 Sep 22 07:55 16153 Sep 25 19:22 16153 Sep 26 02:30 16153 Oct 11 16:59 16153 Oct 19 05:05 16153 Oct 21 06:08 16153 Oct 24 19:04 16153 Oct 28 20:06 16153 Oct 28 17:09 16153 Nov 01 02:10 16153 Nov 05 00:41 16153 Nov 11 10:03	22° \$\Omega 56'04 29° \$\Omega 26'35 0° M. 24° M.56'46 28° M.46'13 28° M.29'51 26° M.50'29 23° M.50'29 23° M.50'35 21° M.10'16 18° M.28'51 16° M.40'54	18°18'47 -1°18'06 1°16'20 0.58521 AU
evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	16152 Oct 05 11:12 16152 Oct 12 04:12 16152 Oct 19 15:16 16152 Oct 28 11:37 16152 Nov 06 04:29 16152 Nov 06 21:51 16152 Nov 08 01:53 16152 Nov 16 08:43 16152 Nov 16 01:22 16152 Nov 19 07:00 16152 Nov 23 22:02 16152 Nov 29 18:25	2° M.47'47 15° M.54'01 0° \$\mathref{X}\$ 12° \$\mathref{X}\$33'49 16° \$\mathref{X}\$55'31 16° \$\mathref{X}\$45'37 12° \$\mathref{X}\$27'27 12° \$\mathref{X}\$40'27 10° \$\mathref{X}\$23'55 7° \$\mathref{X}\$42'42 6° \$\mathref{X}\$21'39	-3°00'06 2°56'40 0.56498 AU	evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	16153 Sep 22 07:55 16153 Sep 25 19:22 16153 Sep 26 02:30 16153 Oct 11 16:59 16153 Oct 19 05:05 16153 Oct 21 06:08 16153 Oct 24 19:04 16153 Oct 28 20:06 16153 Oct 28 17:09 16153 Nov 05 00:41 16153 Nov 11 10:03 16153 Nov 25 17:00	22° \$\Omega 56'04 29° \$\Omega 26'35 0° \mathbb{\text{II}}. 24° \mathbb{\text{II}}.56'46 28° \mathbb{\text{II}}.29'51 26° \mathbb{\text{II}}.52'36 23° \mathbb{\text{II}}.50'29 23° \mathbb{\text{II}}.56'35 21° \mathbb{\text{II}}.10'16 18° \mathbb{\text{II}}.28'51 16° \mathbb{\text{II}}.40'54 24° \mathbb{\text{II}}.18'40	18°18'47 -1°18'06 1°16'20
evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise	16152 Oct 05 11:12 16152 Oct 12 04:12 16152 Oct 19 15:16 16152 Oct 28 11:37 16152 Nov 06 04:29 16152 Nov 06 21:51 16152 Nov 16 08:43 16152 Nov 16 01:22 16152 Nov 19 07:00 16152 Nov 23 22:02 16152 Nov 29 18:25 16152 Dec 13 22:05	2° M.47'47 15° M.54'01 0° \$\mathref{X}\$ 12° \$\mathref{X}\$33'49 16° \$\mathref{X}\$55'31 16° \$\mathref{X}\$45'37 12° \$\mathref{X}\$27'27 12° \$\mathref{X}\$40'27 10° \$\mathref{X}\$23'55 7° \$\mathref{X}\$42'42 6° \$\mathref{X}\$21'39 13° \$\mathref{X}\$38'00	-3°00'06 2°56'40	evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	16153 Sep 22 07:55 16153 Sep 25 19:22 16153 Sep 26 02:30 16153 Oct 11 16:59 16153 Oct 19 05:05 16153 Oct 21 06:08 16153 Oct 24 19:04 16153 Oct 28 20:06 16153 Oct 28 17:09 16153 Nov 01 02:10 16153 Nov 01 02:10 16153 Nov 11 10:03 16153 Nov 25 17:00 16153 Nov 30 21:56	22° \$\sigma 56'04\ 29° \$\sigma 26'35\ 0° \$\mathbb{m}.\ 24° \$\mathbb{m}.56'46\ 28° \$\mathbb{m}.29'51\ 26° \$\mathbb{m}.50'29\ 23° \$\mathbb{m}.50'29\ 23° \$\mathbb{m}.56'35\ 21° \$\mathbb{m}.10'16\ 18° \$\mathbb{m}.28'51\ 16° \$\mathbb{m}.40'54\ 24° \$\mathbb{m}.18'40\ 0° \$\nall\$"	18°18'47 -1°18'06 1°16'20 0.58521 AU
evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	16152 Oct 05 11:12 16152 Oct 12 04:12 16152 Oct 19 15:16 16152 Oct 28 11:37 16152 Nov 06 04:29 16152 Nov 06 21:51 16152 Nov 16 08:43 16152 Nov 16 01:22 16152 Nov 19 07:00 16152 Nov 23 22:02 16152 Nov 29 18:25 16152 Dec 13 22:05 16152 Dec 26 19:38	2° M.47'47 15° M.54'01 0° ₹ 12° ₹33'49 16° ₹57'15 16° ₹55'31 16° ₹45'37 12° ₹27'27 12° ₹40'27 10° ₹23'55 7° ₹42'42 6° ₹21'39 13° ₹38'00 0° ₹	-3°00'06 2°56'40 0.56498 AU	evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	16153 Sep 22 07:55 16153 Sep 25 19:22 16153 Sep 26 02:30 16153 Oct 11 16:59 16153 Oct 19 05:05 16153 Oct 21 06:08 16153 Oct 24 19:04 16153 Oct 28 17:09 16153 Nov 01 02:10 16153 Nov 05 00:41 16153 Nov 11 10:03 16153 Nov 25 17:00 16153 Nov 30 21:56 16153 Dec 19 08:17	22° \$\sigma 56'04 29° \$\sigma 26'35 0° \$\mathbb{n}\$. 24° \$\mathbb{n}\$.56'46 28° \$\mathbb{n}\$.46'13 28° \$\mathbb{n}\$.29'51 26° \$\mathbb{n}\$.50'29 23° \$\mathbb{n}\$.50'29 23° \$\mathbb{n}\$.50'35 21° \$\mathbb{n}\$.10'16 18° \$\mathbb{n}\$.28'51 16° \$\mathbb{n}\$.40'54 24° \$\mathbb{n}\$.18'40 0° \$\star* 28° \$\textit{3}\$.39'44	18°18'47 -1°18'06 1°16'20 0.58521 AU
evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	16152 Oct 05 11:12 16152 Oct 12 04:12 16152 Oct 19 15:16 16152 Oct 28 11:37 16152 Nov 06 04:29 16152 Nov 06 21:51 16152 Nov 16 08:43 16152 Nov 16 01:22 16152 Nov 19 07:00 16152 Nov 29 18:25 16152 Dec 13 22:05 16152 Dec 26 19:38 16153 Jan 01 11:09	2° M.47'47 15° M.54'01 0° ♂ 12° ♂33'49 16° ♂55'31 16° ♂45'37 12° ♂27'27 12° ♂40'27 10° ♂23'55 7° ♂42'42 6° ♂21'39 13° ♂38'00 0° ♂ 9° ♂27'34	-3°00'06 2°56'40 0.56498 AU	evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	16153 Sep 22 07:55 16153 Sep 25 19:22 16153 Sep 26 02:30 16153 Oct 11 16:59 16153 Oct 19 05:05 16153 Oct 21 06:08 16153 Oct 24 19:04 16153 Oct 28 20:06 16153 Oct 28 17:09 16153 Nov 01 02:10 16153 Nov 05 00:41 16153 Nov 11 10:03 16153 Nov 25 17:00 16153 Nov 30 21:56 16153 Dec 19 08:17 16153 Dec 20 01:10	22° \$\cdot 56'04\ 29° \$\cdot 26'35\ 0° \$\mathbb{M}.\ 24° \$\mathbb{M}.56'46\ 28° \$\mathbb{M}.46'13\ 28° \$\mathbb{M}.29'51\ 26° \$\mathbb{M}.50'29\ 23° \$\mathbb{M}.50'29\ 23° \$\mathbb{M}.56'35\ 21° \$\mathbb{M}.10'16\ 18° \$\mathbb{M}.28'51\ 16° \$\mathbb{M}.40'54\ 24° \$\mathbb{M}.18'40\ 0° \$\nall \text{28}' \$\nall 39'44\ 0° \$\nall \text{39}'\text{39}'44\ 0° \$\nall \text{39}'3	18°18'47 -1°18'06 1°16'20 0.58521 AU
evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	16152 Oct 05 11:12 16152 Oct 12 04:12 16152 Oct 19 15:16 16152 Oct 28 11:37 16152 Nov 06 04:29 16152 Nov 06 21:51 16152 Nov 16 08:43 16152 Nov 16 01:22 16152 Nov 19 07:00 16152 Nov 23 22:02 16152 Nov 29 18:25 16152 Dec 13 22:05 16152 Dec 26 19:38 16153 Jan 01 11:09 16153 Jan 11 08:00	2° M.47'47 15° M.54'01 0° ₹ 12° ₹33'49 16° ₹57'15 16° ₹45'37 12° ₹27'27 12° ₹40'27 10° ₹23'55 7° ₹42'42 6° ₹21'39 13° ₹38'00 0° ₹ 9° ₹27'34 29° ₹33'58	-3°00'06 2°56'40 0.56498 AU	evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	16153 Sep 22 07:55 16153 Sep 25 19:22 16153 Sep 26 02:30 16153 Oct 11 16:59 16153 Oct 19 05:05 16153 Oct 21 06:08 16153 Oct 24 19:04 16153 Oct 28 17:09 16153 Nov 01 02:10 16153 Nov 05 00:41 16153 Nov 11 10:03 16153 Nov 25 17:00 16153 Nov 30 21:56 16153 Dec 19 08:17	22° \$\sigma 56'04 29° \$\sigma 26'35 0° \$\mathbb{n}\$. 24° \$\mathbb{n}\$.56'46 28° \$\mathbb{n}\$.46'13 28° \$\mathbb{n}\$.29'51 26° \$\mathbb{n}\$.50'29 23° \$\mathbb{n}\$.50'29 23° \$\mathbb{n}\$.50'35 21° \$\mathbb{n}\$.10'16 18° \$\mathbb{n}\$.28'51 16° \$\mathbb{n}\$.40'54 24° \$\mathbb{n}\$.18'40 0° \$\star* 28° \$\textit{3}\$.39'44	18°18'47 -1°18'06 1°16'20 0.58521 AU
evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	16152 Oct 05 11:12 16152 Oct 12 04:12 16152 Oct 19 15:16 16152 Oct 28 11:37 16152 Nov 06 04:29 16152 Nov 06 21:51 16152 Nov 16 08:43 16152 Nov 16 01:22 16152 Nov 19 07:00 16152 Nov 29 18:25 16152 Dec 13 22:05 16152 Dec 26 19:38 16153 Jan 01 11:09	2° M.47'47 15° M.54'01 0° ♂ 12° ♂33'49 16° ♂55'31 16° ♂45'37 12° ♂27'27 12° ♂40'27 10° ♂23'55 7° ♂42'42 6° ♂21'39 13° ♂38'00 0° ♂ 9° ♂27'34	-3°00'06 2°56'40 0.56498 AU	evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	16153 Sep 22 07:55 16153 Sep 25 19:22 16153 Sep 26 02:30 16153 Oct 11 16:59 16153 Oct 19 05:05 16153 Oct 21 06:08 16153 Oct 24 19:04 16153 Oct 28 20:06 16153 Oct 28 17:09 16153 Nov 01 02:10 16153 Nov 05 00:41 16153 Nov 11 10:03 16153 Nov 25 17:00 16153 Nov 30 21:56 16153 Dec 19 08:17 16153 Dec 20 01:10 16153 Dec 26 16:12	22° \$\cdot 56'04\ 29° \$\cdot 26'35\ 0° \$\text{\mathbb	18°18'47 -1°18'06 1°16'20 0.58521 AU 27°23'47
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evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	16152 Oct 05 11:12 16152 Oct 12 04:12 16152 Oct 19 15:16 16152 Oct 28 11:37 16152 Nov 06 04:29 16152 Nov 06 21:51 16152 Nov 16 08:43 16152 Nov 16 01:22 16152 Nov 16 01:22 16152 Nov 29 18:25 16152 Doc 13 22:05 16152 Dec 13 22:05 16152 Dec 26 19:38 16153 Jan 01 11:09 16153 Jan 11 08:00 16153 Jan 11 18:23 16153 Jan 18 01:39 16153 Jan 18 01:59 16153 Jan 19 01:51 16153 Jan 25 02:06 16153 Jan 25 02:06	2° M.47'47 15° M.54'01 0° ♂ 12° ♂ 33'49 16° ♂ 55'31 16° ♂ 55'31 16° ♂ 45'37 12° ♂ 27'27 12° ♂ 40'27 10° ♂ 23'55 7° ♂ 42'42 6° ♂ 21'39 13° ♂ 38'00 0° ♂ 9° ♂ 27'34 29° ♂ 03'58 0° ≈ 13° ≈ 56'58 13° ≈ 56'58 13° ≈ 58'47 16° ≈ 11'43 29° ≈ 14'42 0° ℃	-3°00'06 2°56'40 0.56498 AU 26°12'40 1°37'51 1°38'26	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	16153 Sep 22 07:55 16153 Sep 25 19:22 16153 Sep 26 02:30 16153 Oct 11 16:59 16153 Oct 19 05:05 16153 Oct 21 06:08 16153 Oct 24 19:04 16153 Oct 28 17:09 16153 Nov 01 02:10 16153 Nov 05 00:41 16153 Nov 05 00:41 16153 Nov 25 17:00 16153 Nov 25 17:00 16153 Dec 19 08:17 16153 Dec 20 01:10 16153 Dec 26 16:12 16154 Jan 02 12:22 16154 Jan 02 09:26 16154 Jan 03 04:14 16154 Jan 09 07:28 16154 Jan 09 07:28 16154 Jan 09 07:28	22° \$\cap\$56'04 29° \$\cap\$26'35 0° \$\mathbb{n}\$. 24° \$\mathbb{n}\$.56'46 28° \$\mathbb{n}\$.46'13 28° \$\mathbb{n}\$.29'51 26° \$\mathbb{n}\$.50'29 23° \$\mathbb{n}\$.50'29 23° \$\mathbb{n}\$.50'35 21° \$\mathbb{n}\$.10'16 18° \$\mathbb{n}\$.28'51 16° \$\mathbb{n}\$.40'54 24° \$\mathbb{n}\$.18'40 0° \$\nall \tau\$ 28° \$\nall 33' \$\tau\$26'50 28° \$\tau\$31'05 28° \$\tau\$31'57 0° \$\tau\$	18°18'47 -1°18'06 1°16'20 0.58521 AU 27°23'47 1°36'43 1°37'22
evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	16152 Oct 05 11:12 16152 Oct 12 04:12 16152 Oct 19 15:16 16152 Oct 28 11:37 16152 Nov 06 04:29 16152 Nov 06 21:51 16152 Nov 16 08:43 16152 Nov 16 01:22 16152 Nov 19 07:00 16152 Nov 29 18:25 16152 Dec 13 22:05 16152 Dec 26 19:38 16153 Jan 01 11:09 16153 Jan 11 08:00 16153 Jan 11 18:23 16153 Jan 18 01:39 16153 Jan 18 01:59 16153 Jan 19 01:51 16153 Jan 25 02:06 16153 Jan 25 10:44 16153 Feb 02 21:34	2° M.47'47 15° M.54'01 0° ♂ 12° ♂33'49 16° ♂55'31 16° ♂55'31 16° ♂45'37 12° ♂27'27 12° ♂40'27 10° ♂23'55 7° ♂42'42 6° ♂21'39 13° ♂38'00 0° ♂ 9° ♂27'34 29° ♂03'58 0° ≈ 13° ≈56'58 13° ≈56'58 13° ≈58'47 16° ≈11'43 29° ≈14'42 0° ℋ 16° ℋ30'07 0° ♈	-3°00'06 2°56'40 0.56498 AU 26°12'40 1°37'51 1°38'26 1.31358 AU	evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	16153 Sep 22 07:55 16153 Sep 25 19:22 16153 Sep 26 02:30 16153 Oct 11 16:59 16153 Oct 19 05:05 16153 Oct 21 06:08 16153 Oct 24 19:04 16153 Oct 28 20:06 16153 Oct 28 17:09 16153 Nov 01 02:10 16153 Nov 05 00:41 16153 Nov 11 10:03 16153 Nov 25 17:00 16153 Nov 30 21:56 16153 Dec 19 08:17 16153 Dec 20 01:10 16153 Dec 26 16:12 16154 Jan 02 12:22 16154 Jan 02 09:26 16154 Jan 03 04:14 16154 Jan 09 07:28 16154 Jan 09 07:28 16154 Jan 17 12:19 16154 Jan 20 18:18	22° \$\cap\$56'04 29° \$\cap\$26'35 0° \$\mathbb{n}\$. 24° \$\mathbb{n}\$.56'46 28° \$\mathbb{n}\$.56'46 28° \$\mathbb{n}\$.50'29 23° \$\mathbb{n}\$.50'29 23° \$\mathbb{n}\$.50'29 23° \$\mathbb{n}\$.50'35 21° \$\mathbb{n}\$.10'16 18° \$\mathbb{n}\$.28'51 16° \$\mathbb{n}\$.40'54 24° \$\mathbb{n}\$.18'40 0° \$\nall \tau\$ 28° \$\nall 33' \$\tau\$26'50 28° \$\tau\$35'08 28° \$\tau\$31'05 28° \$\tau\$13' \$\tau\$31'57 0° \$\tau\$ 5° \$\tau\$49'35	18°18'47 -1°18'06 1°16'20 0.58521 AU 27°23'47 1°36'43 1°37'22
evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	16152 Oct 05 11:12 16152 Oct 12 04:12 16152 Oct 19 15:16 16152 Oct 28 11:37 16152 Nov 06 04:29 16152 Nov 06 21:51 16152 Nov 16 08:43 16152 Nov 16 01:22 16152 Nov 19 07:00 16152 Nov 23 22:02 16152 Nov 29 18:25 16152 Dec 13 22:05 16152 Dec 26 19:38 16153 Jan 01 11:09 16153 Jan 11 08:00 16153 Jan 11 18:23 16153 Jan 18 01:39 16153 Jan 18 01:59 16153 Jan 19 01:51 16153 Jan 25 02:06 16153 Jan 25 10:44 16153 Feb 02 21:34 16153 Feb 10 23:24 16153 Feb 10 23:24	2° M.47'47 15° M.54'01 0° ♂ 12° ♂33'49 16° ♂55'31 16° ♂45'37 12° ♂27'27 12° ♂40'27 10° ♂23'55 7° ♂42'42 6° ♂21'39 13° ♂38'00 0° ♂ 9° ♂27'34 29° ♂03'58 0° ≈ 13° ≈56'58 13° ≈56'58 13° ≈58'47 16° ≈11'43 29° ≈14'42 0° ℃ 16° ₩30'07 0° № 18° ₩57'57'59	-3°00'06 2°56'40 0.56498 AU 26°12'40 1°37'51 1°38'26 1.31358 AU	evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	16153 Sep 22 07:55 16153 Sep 25 19:22 16153 Sep 26 02:30 16153 Oct 11 16:59 16153 Oct 19 05:05 16153 Oct 21 06:08 16153 Oct 24 19:04 16153 Oct 28 20:06 16153 Oct 28 17:09 16153 Nov 01 02:10 16153 Nov 05 00:41 16153 Nov 11 10:03 16153 Nov 25 17:00 16153 Nov 30 21:56 16153 Dec 19 08:17 16153 Dec 20 01:10 16153 Dec 20 10:10 16153 Dec 26 16:12 16154 Jan 02 13:05 16154 Jan 02 12:22 16154 Jan 03 04:14 16154 Jan 03 04:14 16154 Jan 09 07:28 16154 Jan 20 18:18 16154 Feb 07 08:57 16154 Feb 07 08:57	22° \$\cdot 56'04 29° \$\cdot 26'35 0° \$\text{\tex{\tex	18°18'47 -1°18'06 1°16'20 0.58521 AU 27°23'47 1°36'43 1°37'22 1.30991 AU
evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	16152 Oct 05 11:12 16152 Oct 12 04:12 16152 Oct 19 15:16 16152 Oct 28 11:37 16152 Nov 06 04:29 16152 Nov 06 21:51 16152 Nov 16 08:43 16152 Nov 16 01:22 16152 Nov 19 07:00 16152 Nov 29 18:25 16152 Dec 13 22:05 16152 Dec 26 19:38 16153 Jan 01 11:09 16153 Jan 11 08:00 16153 Jan 11 18:23 16153 Jan 18 01:39 16153 Jan 18 01:59 16153 Jan 19 01:51 16153 Jan 25 02:06 16153 Jan 25 10:44 16153 Feb 02 21:34 16153 Feb 02 21:34	2° M.47'47 15° M.54'01 0° ♂ 12° ♂33'49 16° ♂55'31 16° ♂55'31 16° ♂45'37 12° ♂27'27 12° ♂40'27 10° ♂23'55 7° ♂42'42 6° ♂21'39 13° ♂38'00 0° ♂ 9° ♂27'34 29° ♂03'58 0° ≈ 13° ≈56'58 13° ≈56'58 13° ≈58'47 16° ≈11'43 29° ≈14'42 0° ℋ 16° ℋ30'07 0° ♈	-3°00'06 2°56'40 0.56498 AU 26°12'40 1°37'51 1°38'26 1.31358 AU	evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	16153 Sep 22 07:55 16153 Sep 25 19:22 16153 Sep 26 02:30 16153 Oct 11 16:59 16153 Oct 19 05:05 16153 Oct 21 06:08 16153 Oct 24 19:04 16153 Oct 28 20:06 16153 Oct 28 17:09 16153 Nov 01 02:10 16153 Nov 05 00:41 16153 Nov 11 10:03 16153 Nov 25 17:00 16153 Nov 30 21:56 16153 Dec 19 08:17 16153 Dec 20 01:10 16153 Dec 26 16:12 16154 Jan 02 13:05 16154 Jan 02 12:22 16154 Jan 02 09:26 16154 Jan 03 04:14 16154 Jan 09 07:28 16154 Jan 17 12:19 16154 Jan 20 18:18 16154 Feb 07 08:57	22° \$\circ\$56'04 29° \$\circ\$26'35 0° \$\text{\tex{\tex	18°18'47 -1°18'06 1°16'20 0.58521 AU 27°23'47 1°36'43 1°37'22 1.30991 AU

min. Earth dist.	16154 Mar 04 16:05	3° Y 31'56	0.58917 AU		16154 Dec 25 15:18	0° ≈	
inferior conj	16154 Mar 07 21:03	1° Υ '02'54		desc. node	16155 Jan 07 15:06	24°≈32'20	
minimum elong	16154 Mar 08 03:52	0° Υ 49'39			16155 Jan 11 05:14	0° ∀	
	16154 Mar 09 05:54	30° Ŗ ₩		evening max el	16155 Jan 20 20:14	11°) 33'34	25°31'09
morning rise	16154 Mar 15 21:02	26° ¥ 27'30		retrograde	16155 Feb 03 17:55	18°) 33′22	
asc. node	16154 Mar 17 05:54	26°) 14′52		evening set	16155 Feb 09 13:35	17°) 15'59	
direct	16154 Mar 17 20:17	26° ¥ 13'33		min. Earth dist.	16155 Feb 14 09:03	14°) ₹35′05	0.56851 AU
morning max el	16154 Mar 25 16:23	0° Y 06'30	18°16'34	inferior conj	16155 Feb 17 04:12	12°) 42'19	-4°27'22
	16154 Mar 25 13:42	0° Y		minimum elong	16155 Feb 17 13:33	12° ¥ 26′35	4°24'22
morning set	16154 Apr 10 08:49	25° Y ′02'42		morning rise	16155 Feb 25 16:23	8° ¥ 28'11	
	16154 Apr 12 23:44	0°8		direct	16155 Feb 27 16:53	8° 升 15′58	
desc. node	16154 Apr 18 19:39	10° 8 51'05		asc. node	16155 Mar 04 03:15	9°) 18′33	
				morning max el	16155 Mar 08 19:44	12°) (43′46	19°02'16
superior conj	16154 Apr 19 21:34	12° 8 48'55	-0°09'00		16155 Mar 20 11:13	0° Y	
minimum elong	16154 Apr 19 20:51	12° 8 45'38	0°09'19	morning set	16155 Mar 25 07:51	9° Y '22'16	
behind sun begin	16154 Apr 19 14:46	12° 8 18'02					
behind sun end	16154 Apr 20 02:56	13° 8 13'11		superior conj	16155 Apr 02 19:10	25° Y 57'21	0°24'12
max. Earth dist.	16154 Apr 27 11:36	26° 8 06'56	1.41220 AU	minimum elong	16155 Apr 02 20:39	26° Y '04'26	0°23'41
	16154 Apr 29 19:06	Π °0			16155 Apr 04 22:27	0°8	
evening rise	16154 May 02 02:50	3° Ⅱ 49'30		desc. node	16155 Apr 05 16:22	1° 8 23'39	
	16154 May 19 06:42	0 \circ 50		max. Earth dist.	16155 Apr 09 18:03	8° 8 48'46	1.38953 AU
evening max el	16154 Jun 05 03:03	21° 5 911'36	23°07'03	evening rise	16155 Apr 13 13:17	15° 8 27'47	
asc. node	16154 Jun 13 03:50	26° © 53'43			16155 Apr 22 10:01	Π $^{\circ}0$	
retrograde	16154 Jun 15 12:19	27° © 17'33			16155 May 13 23:30	0 \circ \odot	
evening set	16154 Jun 20 14:43	25° © 07'33		evening max el	16155 May 18 16:50	5° © 07'15	24°28'12
inferior conj	16154 Jun 25 22:26	18° 5 43'10	2°57'59	retrograde	16155 May 30 05:17	11° © 51'14	
minimum elong	16154 Jun 25 21:12	18° 5 47'28	2°57'08	asc. node	16155 May 31 00:51	11° © 48'25	
min. Earth dist.	16154 Jun 25 12:13	19° © 18'36	0.69102 AU	evening set	16155 Jun 04 19:13	9° 5 29'13	
morning rise	16154 Jul 01 03:36	12° © 34'05		min. Earth dist.	16155 Jun 09 07:55	4° © 17'31	0.68642 AU
direct	16154 Jul 05 12:25	10° © 48'15		inferior conj	16155 Jun 10 07:05	2° © 59'41	2°37'56
morning max el	16154 Jul 14 00:22		21°01'34	minimum elong	16155 Jun 10 05:11	3°506'05	2°36'49
desc. node	16154 Jul 15 19:13	17° © 33'52			16155 Jun 12 14:40	30°Ŗ Ⅱ	
	16154 Jul 25 12:58	0 ° Ω		morning rise	16155 Jun 15 15:17	26° ∏ 59'42	
morning set	16154 Aug 13 11:15	28° Ω 08'14		direct	16155 Jun 19 12:27	25° ∏ 33′28	
	16154 Aug 14 15:51	0° ™		morning max el	16155 Jun 26 23:54	29° ∏ 43′22	19°50'19
max. Earth dist.	16154 Aug 21 00:43	10° Mp 08'53	1.43218 AU		16155 Jun 27 06:35	0°€	
				desc. node	16155 Jul 02 16:24	6°9520'14	
superior conj	16154 Aug 28 02:20	21° m 50'16			16155 Jul 19 01:11	0°Ω	
minimum elong	16154 Aug 28 09:43	22° m) 21'27	1°31'28	morning set	16155 Jul 23 16:02	7° Ω 02'41	
	16154 Sep 01 20:38	0° ⊽		max. Earth dist.	16155 Aug 03 13:55	24° Ω 01'48	1.44836 AU
evening rise	16154 Sep 08 21:00	12° £ 23'02			16155 Aug 07 07:52	0° ™	
asc. node	16154 Sep 09 04:34	12° £ 56'46			16155 4 00 14 27	20 m 0212 (2000120
	16154 Sep 19 03:15	0°M	10000100	superior conj	16155 Aug 08 14:37	2° Mp 03'36	
evening max el	16154 Sep 25 05:06	7°M55'27	18°02'28	minimum elong	16155 Aug 08 21:50	2° Mp 32'40	2*00*24
retrograde	16154 Oct 01 22:41	11°M23'38		evening rise	16155 Aug 22 03:58	24°₱30'34 0°₽	
evening set	16154 Oct 04 06:56	10°M.58'24 5°M.58'52	0°09'48	asc. node	16155 Aug 25 09:50	0° ± 2° £ 45'49	
inferior conj minimum elong	16154 Oct 11 03:51 16154 Oct 11 04:11	5°M58'06	0°10'03	evening max el	16155 Aug 27 01:13 16155 Sep 08 19:55	21° ⊆ 19'37	10005100
transit middle	16154 Oct 11 04:11	5°M58'06	0°10'03	retrograde	16155 Sep 15 05:07	21° ⊆ 1937 24° ⊆ 40'03	18 03 00
transit begin	16154 Oct 11 01:37	6°M04'13	0 10 03	evening set	16155 Sep 17 21:49	24° £ 02'25	
transit begin transit end	16154 Oct 11 01:37 16154 Oct 11 06:45	5°M51'58		inferior conj	16155 Sep 17 21:49 16155 Sep 24 04:13		1°18'25
desc. node	16154 Oct 11 16:21	5°M28'57		minimum elong	16155 Sep 24 06:10	18° ⊆ 39'32	1°17'55
min. Earth dist.	16154 Oct 14 06:43	3°M01'31	0.60797 AU	min. Earth dist.	16155 Sep 26 21:07	16 ⊆ 50'44	0.63058 AU
morning rise	16154 Oct 17 22:22	0°M07'20	0.00777 AC	desc. node	16155 Sep 28 13:41	14° ⊆ 10'52	0.03030 AC
morning risc	16154 Oct 18 02:54	30°R.Ω		morning rise	16155 Sep 30 12:21	14 — 10 32 12° — 33'09	
direct	16154 Oct 24 14:12	27° £ 55'33		direct	16155 Oct 07 04:23	12 ⊆ 55 07 10° ⊆ 04'44	
direct	16154 Oct 31 11:43	0° ™		morning max el	16155 Oct 21 03:37	18° ⊆ 03'01	27°51'10
morning max el	16154 Nov 07 19:37	5° ™ 48'08	27°56'54	morning max or	16155 Oct 31 05:00	0°M	_, 5110
	16154 Nov 26 00:20	0° ⊼ ¹	2, 2001		16155 Nov 18 20:47	0° ⊼ ″	
asc. node	16154 Dec 06 05:19	18° × 15'32		asc. node	16155 Nov 23 02:15	8° × 707'41	
morning set	16154 Dec 10 19:38	27°×733'07		morning set	16155 Nov 24 16:01	11°×716'58	
0 ~	16154 Dec 11 23:31	0°る		max. Earth dist.	16155 Nov 29 17:16	21° х 50'39	1.31937 AU
max. Earth dist.	16154 Dec 16 15:49	00 10°る10'25	1.31178 AU		1,0, 2, 1,.10		
				superior conj	16155 Dec 02 08:01	27° ∡ °31'07	1°16'16
superior conj	16154 Dec 17 23:52	13° る 08'30	1°29'33	minimum elong	16155 Dec 02 05:47	27° ✓ 18'53	1°16'42
minimum elong	16154 Dec 17 22:14	12° る 59'24	1°30'07		16155 Dec 03 11:10	0°る	•
evening rise	16154 Dec 24 16:25	27°る56'56	* /	evening rise	16155 Dec 09 03:02	12° る 24'37	

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	16155 Dec 17 20:47	0° ≈			16156 Nov 24 01:20	ರ°0	
desc. node	16155 Dec 25 11:58	12° ≈ 24'21		desc. node	16156 Dec 11 08:55	29° る 07'57	
evening max el	16156 Jan 02 07:10	21° ≈ 42'36	23°53'23		16156 Dec 12 03:33	0° ≈	
retrograde	16156 Jan 15 19:05	28° ≈ 24'04		evening max el	16156 Dec 13 17:43	1° ≈ 38'36	22°10'05
evening set	16156 Jan 20 14:09	27°≈34'18		retrograde	16156 Dec 26 08:24	7° ≈ 52'46	
min. Earth dist.	16156 Jan 26 18:39		0.55276 AU	evening set	16156 Dec 29 20:47	7°≈25'24	
inferior conj	16156 Jan 28 14:19	23°≈29'05		inferior conj	16157 Jan 07 08:45	3°≈33'57	-6°01'51
minimum elong	16156 Jan 28 21:32	23°≈18'21		minimum elong	16157 Jan 07 07:38	3° ≈ 35'30	
morning rise	16156 Feb 06 06:34	19° ≈ 33'07	2 20 01	min. Earth dist.	16157 Jan 07 00:09	3° ≈ 45'58	0.54458 AU
direct	16156 Feb 08 18:06	19°≈17'37		Time Darwi Gibt.	16157 Jan 14 23:46	30°Rる	0.0 1 10 0 110
asc. node	16156 Feb 19 00:35	24°≈05'14		morning rise	16157 Jan 15 19:25	29° る 46'41	
morning max el	16156 Feb 19 10:05	24°≈27'51	20°11'00	direct	16157 Jan 19 04:35	29° る 21'15	
morning max or	16156 Feb 24 03:21	0° \	20 11 00	direct	16157 Jan 23 05:43	0° ≈	
morning set	16156 Mar 08 13:36	23° ¥ 57'05		morning max el	16157 Jan 31 09:21	5° ≈ 14'58	21°42'26
morning sec	16156 Mar 11 12:19	0°Υ		asc. node	16157 Feb 04 21:54	10° ≈ 19'49	21 1220
	10130 Widi 11 12.17	0 1		asc. node	16157 Feb 16 17:58	0° ∀	
superior conj	16156 Mar 16 06:26	9° Ƴ 41'09	0°51'37	morning set	16157 Feb 20 23:27	8° ¥ 39'37	
minimum elong	16156 Mar 16 08:53	9° Υ '53'23	0°51'11	morning set	1013/100 20 23.27	6 N 3737	
max. Earth dist.	16156 Mar 22 00:55	20° Υ 56'45	1.36691 AU	superior conj	16157 Feb 28 03:43	23° ¥ 50′29	10121/1
desc. node	16156 Mar 22 13:02	20 γ 50 43 21° γ 53'52	1.30091 AU	minimum elong	16157 Feb 28 06:10	24°\(\)(30'29')	
evening rise	16156 Mar 25 19:01	27° Υ 53'31		minimum ciong	16157 Mar 03 03:16	24 γ (03 18	1 1231
evening rise	16156 Mar 26 23:11	0° と		max. Earth dist.	16157 Mar 04 12:29	2° Υ 47'51	1.34651 AU
	16156 Apr 14 18:43	0°II		evening rise	16157 Mar 08 16:41	10° Υ 57'39	1.54051 AU
evening max el	16156 Apr 30 06:26	0 H 19°H01'16	25042100	desc. node	16157 Mar 09 09:41	10 γ 37 39 12° γ 18'10	
retrograde	16156 May 12 17:42	26° I 12'38	23 43 06	desc. node	16157 Mar 19 10:53	0°8	
•	•	25° I 12'38			16157 Apr 10 03:27	0°II	
asc. node	16156 May 16 21:57	23° II 02'08		ovening may al		0 П 2°П46'34	26°44'19
evening set min. Earth dist.	16156 May 18 18:39 16156 May 23 00:10	23 Ⅱ 42 37 19° Ⅱ 07'38	0.67704 AU	evening max el retrograde	16157 Apr 12 20:09 16157 Apr 26 00:44	2 П 46 34 10° П 14'01	20 44 19
inferior conj	16156 May 24 12:24	19 H 07 38	2°06'53	evening set	16157 Apr 20 00.44 16157 May 02 11:09	7° Ⅱ 41'20	
	16156 May 24 12:24 16156 May 24 10:13	17 H 1213	2°05'35	asc. node	16157 May 02 11:09 16157 May 03 19:09	6° Д 31'10	
minimum elong morning rise	16156 May 30 02:20	11° I I22'42	2 03 33	min. Earth dist.	16157 May 05 19:09 16157 May 06 10:54	3° П 41'13	0.66317 AU
direct	16156 Jun 02 12:34	10° I 15'30		inferior conj	16157 May 08 12:12	1° П 15'28	1°23'50
morning max el	16156 Jun 09 06:41	10 Ⅱ 13 30	18°54'08	minimum elong	16157 May 08 10:18	1° П 21'05	1°22'35
desc. node	16156 Jun 18 13:30	25°II42'08	16 3406	minimum clong	16157 May 09 13:59	30°R 8	1 22 33
desc. Hode	16156 Jun 21 11:13	0°95		morning rise	16157 May 14 10:40	25° 8 38'03	
greatest brilliancy	16156 Jun 22 16:19	1°9649'38	-0.8m	direct	16157 May 17 10:46	24° 8 48'07	
morning set	16156 Jul 02 01:32	16°9515'24	0.0111	morning max el	16157 May 23 19:36	28° 8 08'30	18°14'26
morning sec	16156 Jul 10 22:05	0°Ω		morning max or	16157 May 25 13:45	0°Ⅱ	10 1120
max. Earth dist.	16156 Jul 16 08:23		1.45788 AU	desc. node	16157 Jun 05 10:31	15° Ⅱ 29'56	
				morning set	16157 Jun 12 08:47	26° Ⅲ 31'56	
superior conj	16156 Jul 18 07:02	11° Ω 30'04	-2°13'57	· ·	16157 Jun 14 12:55	0°©	
minimum elong	16156 Jul 18 08:38	11° Ω 36′21	2°14'31				
	16156 Jul 29 23:18	0° m)		superior conj	16157 Jun 27 16:06	20°5643'15	-2°07'34
evening rise	16156 Aug 02 11:26	5° m 38'14		minimum elong	16157 Jun 27 10:11	20°520'07	2°08'01
asc. node	16156 Aug 12 21:53	22° Mp 18'30		max. Earth dist.	16157 Jun 29 04:58	23° © 07'06	1.45993 AU
	16156 Aug 18 04:20	0∘ 亚			16157 Jul 03 15:03	$0^{\circ}\Omega$	
evening max el	16156 Aug 22 10:04	5° ≏ 00'42	18°25'24	evening rise	16157 Jul 13 18:08	15° Ω 44'35	
retrograde	16156 Aug 28 20:12	8° £ 26'49			16157 Jul 22 23:23	0° ™	
evening set	16156 Aug 31 21:56	7° ≙ 34'03		greatest brilliancy	16157 Jul 24 12:11	2° m 19'53	-0.8m
inferior conj	16156 Sep 06 17:15	2° ♀ 00'41	2°08'14	asc. node	16157 Jul 30 18:37	11° m)27'57	
minimum elong	16156 Sep 06 19:34	1° ≙ 53'46	2°07'33	evening max el	16157 Aug 05 20:42	18° m 50'40	19°02'54
	16156 Sep 08 09:43	30°R, Mp		retrograde	16157 Aug 12 16:30	22° m 35'35	
min. Earth dist.	16156 Sep 08 21:03	29° Mp 26'52	0.65097 AU	evening set	16157 Aug 16 03:45	21° m 25'58	
morning rise	16156 Sep 12 15:51	25° m 37'50		inferior conj	16157 Aug 21 15:25	15° m 38'46	2°41'38
desc. node	16156 Sep 14 11:02	24° Mp 21'56		minimum elong	16157 Aug 21 17:20	15° m 32'36	2°41'00
direct	16156 Sep 19 02:55	23° Mp 01'30		min. Earth dist.	16157 Aug 23 05:15	13° m 37'25	0.66786 AU
	16156 Oct 01 16:25	0∘ ত		morning rise	16157 Aug 27 06:09	9° m 11'55	
morning max el	16156 Oct 02 14:36	0° £ 54'36	27°11'33	desc. node	16157 Sep 01 08:26	6° Mp 40′00	
	16156 Oct 24 06:39	0° M ₊		direct	16157 Sep 02 08:43	6° Mp 36′00	
morning set	16156 Nov 07 02:46	24° MJ $32'46$		morning max el	16157 Sep 15 02:14	14° m 10'18	26°06'00
asc. node	16156 Nov 08 23:06	28°M10'55			16157 Sep 28 00:28	0∘ ⊽	
	16156 Nov 09 20:54	0° ∡ ¹			16157 Oct 17 00:49	0° M	
max. Earth dist.	16156 Nov 11 10:39	3° ₹ 11'43	1.33260 AU	morning set	16157 Oct 21 00:31	7°M12'34	
				max. Earth dist.	16157 Oct 24 18:17	14° M ₊17'28	1.35100 AU
superior conj	16156 Nov 15 11:26	11° ∡ ³37'40	0°56'49	asc. node	16157 Oct 26 19:55	18° M 20′15	
minimum elong	16156 Nov 15 09:06	11° ∡ ¹25'17	0°57'07				
evening rise	16156 Nov 22 13:33	26° ₹ 750'49		superior conj	16157 Oct 30 07:30	25°M20'59	0°31'17

minimum elong	16157 Oct 30 05:50 16157 Nov 01 13:38	25°M12′26 0° √	0°31'32	minimum elong behind sun begin	16158 Oct 13 17:05 16158 Oct 13 10:27	8°M33'58 8°M01'42	0°00'33
evening rise	16157 Nov 06 21:58	11° ∡ ¹09'57		behind sun end	16158 Oct 13 23:42	9° M 06'18	
	16157 Nov 16 16:48	0°ಕ		asc. node	16158 Oct 13 16:41	8°M32'02	
evening max el	16157 Nov 25 13:36	11° る 59'04	20°38'08	evening rise	16158 Oct 22 02:03	25°M16'43	
desc. node	16157 Nov 28 05:57	14°る20'06			16158 Oct 24 10:50	0° ⊼ ¹	10000101
retrograde	16157 Dec 06 18:35	17° ろ 33'06		evening max el	16158 Nov 08 00:04	23° х 07'38	19°26'34
evening set inferior conj	16157 Dec 09 04:46 16157 Dec 18 00:02	17°る18'39 13°る25'28	5024146	desc. node retrograde	16158 Nov 15 03:04 16158 Nov 17 13:48	27° х 36′56 27° х 55′14	
minimum elong	16157 Dec 17 15:12		5°22'18	evening set	16158 Nov 19 12:09	27° х 33°14 27° х 44'24	
min. Earth dist.	16157 Dec 19 05:37	13° ろ 42'39	0.54556 AU	inferior conj	16158 Nov 28 02:39	23° × ⁷ 37'58	-3°59'20
morning rise	16157 Dec 26 01:25	9° る 28'45	0.0 .000 .110	minimum elong	16158 Nov 27 17:14	23° x 53'13	3°55'32
direct	16157 Dec 30 12:24	8° ප් 46'01		min. Earth dist.	16158 Nov 30 14:19	22° ₹ '01'28	0.55572 AU
morning max el	16158 Jan 12 20:57	15° る 18'27	23°29'52	morning rise	16158 Dec 05 20:13	19° ∡ 13'36	
asc. node	16158 Jan 22 19:11	27° る 43'29		direct	16158 Dec 11 06:16	18° ∡ ¹07'16	
	16158 Jan 24 05:46	0° ≈ ≈		morning max el	16158 Dec 25 05:37	25° х 10′14	25°17'51
morning set	16158 Feb 05 11:13	23° ≈ 23'32			16158 Dec 29 17:24	0°ರ	
	16158 Feb 08 12:34	0° ∀		asc. node	16159 Jan 09 16:24	15° පි 59'31	
		>		_	16159 Jan 17 03:00	0° ≈	
superior conj	16158 Feb 12 07:57	8°¥16'55		morning set	16159 Jan 20 23:00	8° ≈ 03'04	
minimum elong	16158 Feb 12 09:49	8°) €26'58	1°27'32		16150 1 05 16 05	220 52145	1005145
max. Earth dist.	16158 Feb 15 07:16	14°) €38'16	1.32989 AU	superior conj	16159 Jan 27 16:37	22°≈52'45	1°35'47
evening rise	16158 Feb 20 02:51 16158 Feb 22 22:09	24°) 31'37 0° °		minimum elong max. Earth dist.	16159 Jan 27 17:32 16159 Jan 29 09:08	22°≈57'53 26°≈35'58	1°36'14 1.31804 AU
desc. node	16158 Feb 24 06:22	2° Υ 32'22		max. Earth dist.	16159 Jan 30 22:35	20 ≈ 33 38	1.31804 AU
dese. Hode	16158 Mar 12 23:30	0°8		evening rise	16159 Feb 03 22:27	8° ∺ 27'34	
evening max el	16158 Mar 26 09:20	16° 8 13'47	27°24'20	desc. node	16159 Feb 11 03:02	22°\(\frac{1}{30}\)'50	
retrograde	16158 Apr 09 01:36	23° 8 46'43	27 2.20	acse. noue	16159 Feb 15 08:22	0°Υ	
evening set	16158 Apr 15 18:39	21° 8 18'06		evening max el	16159 Mar 08 20:19	29° Ƴ 10'36	27°36'13
min. Earth dist.	16158 Apr 19 14:18	17° 8 49'28	0.64534 AU	-	16159 Mar 09 17:24	9° 8	
asc. node	16158 Apr 20 16:25	16° 8 40'01		retrograde	16159 Mar 22 19:05	6° 8 39'50	
inferior conj	16158 Apr 22 03:55	15° 8 03'39	0°27'37	evening set	16159 Mar 29 14:33	4° 8 22'56	
minimum elong	16158 Apr 22 03:09	15° 8 05'44	0°26'51	min. Earth dist.	16159 Apr 02 08:44	1° 8 20'21	0.62451 AU
morning rise	16158 Apr 28 13:46	9° 8 40'13			16159 Apr 03 18:36	30° ₹ Υ	
direct	16158 May 01 04:40	9° 8 04'49		inferior conj	16159 Apr 05 08:26	28° Y 28′10	
morning max el	16158 May 07 12:22	12° 8 19'39	17°51'46	minimum elong	16159 Apr 05 09:52	28° Y 24'42	0°42'19
11-	16158 May 19 22:27	0°П 5°П 20127		asc. node	16159 Apr 07 13:44	26° Y 24'26	
desc. node	16158 May 23 07:28 16158 May 24 19:27	5°Ⅲ36'37 8°Ⅲ06'49		morning rise direct	16159 Apr 12 08:10 16159 Apr 14 15:11	23° Y 21'03 22° Y 56'48	
morning set	10138 May 24 19.27	о щоо 49		morning max el	16159 Apr 21 06:00	26° Y 17'43	17°46'35
superior conj	16158 Jun 07 10:55	0°\$28'05	-1°43'14	morning max ci	16159 Apr 24 11:07	0°8	17 4033
minimum elong	16158 Jun 07 02:19	29° I 53'40		morning set	16159 May 07 06:06	20° 8 48'49	
g	16158 Jun 07 03:54	0.00	1 13 07	desc. node	16159 May 10 04:20	25° 8 55'54	
max. Earth dist.	16158 Jun 12 00:49	7° © 43'32	1.45450 AU		16159 May 12 12:34	0°II	
evening rise	16158 Jun 23 07:32	25° © 12'09			•		
	16158 Jun 26 11:04	$0^{\circ}\Omega$		superior conj	16159 May 19 02:36	11° Ⅱ 10′52	-1°08'10
greatest brilliancy	16158 Jul 08 02:02	17° Ω 19'46	-0.6m	minimum elong	16159 May 18 20:18	10° Ⅱ 44'34	1°07'57
asc. node	16158 Jul 17 15:25	0°Mp06′12		max. Earth dist.	16159 May 25 17:48		1.44224 AU
	16158 Jul 17 13:17	0° m)			16159 May 30 18:37	0ంత	
evening max el	16158 Jul 20 01:59	2° m/44'38	19°56'19	evening rise	16159 Jun 02 19:26	4°5542'49	
retrograde	16158 Jul 27 15:13	7° Mp 00'18			16159 Jun 19 20:24	0°N	21002120
evening set	16158 Jul 31 12:39	5° TD 32'58		evening max el	16159 Jul 03 01:14	16° Ω 38'54	21°03'28
inforior coni	16158 Aug 05 12:00	30°RN 29°N33'31	3°01'00	asc. node	16159 Jul 04 12:18 16159 Jul 11 14:12	18° Ω 01'44 21° Ω 34'33	
inferior conj minimum elong	16158 Aug 05 19:50 16158 Aug 05 20:57	29° Ω 29'44	3°00'27	retrograde evening set	16159 Jul 15 22:31	19° \(\Omega\) 49'35	
min. Earth dist.	16158 Aug 05 20:57	28° Ω 12'29	0.68050 AU	inferior conj	16159 Jul 21 04:01	13° Ω 39'13	3°08'19
morning rise	16158 Aug 11 04:49	$23^{\circ}\Omega 07'56$	3.00000110	minimum elong	16159 Jul 21 04:11	$13^{\circ} \Omega 38'37$	3°07'45
direct	16158 Aug 16 20:44	20° Ω 39'47		min. Earth dist.	16159 Jul 21 14:30	13° Ω 02'48	0.68846 AU
desc. node	16158 Aug 19 05:48	21° Ω 02'11		morning rise	16159 Jul 26 09:35	7° Ω 18'31	
morning max el	16158 Aug 28 13:19	27° Ω 39'50	24°43'57	direct	16159 Jul 31 13:42	5° Ω 03'56	
-	16158 Aug 30 18:15	0° m y		desc. node	16159 Aug 06 03:07	7° Ω 05'59	
	16158 Sep 21 16:09	0∘ ⊽		morning max el	16159 Aug 11 00:32	11° Ω 17′03	23°15'05
morning set	16158 Oct 03 05:20	19° ≏ 07'49			16159 Aug 25 22:48	0° m	
max. Earth dist.	16158 Oct 06 18:21	25° ≏ 27'48	1.37338 AU		16159 Sep 14 10:59	0∘ ত	
	16158 Oct 09 05:23	0°M₊		morning set	16159 Sep 14 13:02	0° ₽ 08'32	
	16150 0 15 15 1	0044	000015	max. Earth dist.	16159 Sep 18 17:04	7° ≙ 12'13	1.39749 AU
superior conj	16158 Oct 13 17:07	8°M34'09	0°00'10				

superior conj	16159 Sep 26 12:24	21° ≏ 08'13	-0°35'13		16160 Sep 05 21:05	0∘ ⊽	
minimum elong	16159 Sep 26 15:03	21° ≏ 20′28	0°34'34		•		
asc. node	16159 Sep 30 13:25	28° ≏ 42'41		superior conj	16160 Sep 07 12:53	2° ჲ 52'26	-1°12'05
	16159 Oct 01 05:40	0° M		minimum elong	16160 Sep 07 18:46	3° ₾ 18'09	1°11'16
evening rise	16159 Oct 05 22:55	9° ™ 04'14		asc. node	16160 Sep 16 10:05	18° ≏ 48′01	
	16159 Oct 17 19:43	0° ∡ ¹		evening rise	16160 Sep 18 08:52	22° ₽ 22'32	
evening max el	16159 Oct 21 23:46	5° ∡ 06'15	18°37'23		16160 Sep 22 13:12	0° M	
retrograde	16159 Oct 30 02:58	9° ∡ 13'17		evening max el	16160 Oct 04 08:32	17°M45'33	18°09'28
evening set	16159 Nov 01 01:23	9° ₰ 00'06		retrograde	16160 Oct 11 11:18	21°M24'11	
desc. node	16159 Nov 02 00:15	8° ∡ ⁴44'24		evening set	16160 Oct 13 15:18	21°Mo4'24	
inferior conj	16159 Nov 09 01:24	4° ∡ ³33'15		desc. node	16160 Oct 18 21:30	17°M58'43	
minimum elong	16159 Nov 08 19:56	4° ∡ °43'33	2°13'03	inferior conj	16160 Oct 20 21:47	16°M15'56	-0°38'36
min. Earth dist.	16159 Nov 12 04:45	2° ∡ 11'58	0.57311 AU	minimum elong	16160 Oct 20 20:25	16° M ₊18'56	0°37'34
	16159 Nov 15 14:21	30°RM		min. Earth dist.	16160 Oct 24 03:27	13°M26'15	0.59476 AU
morning rise	16159 Nov 16 11:13	29°M32'42		morning rise	16160 Oct 27 22:14	10°M40'48	
direct	16159 Nov 22 14:14	27° M 59'48		direct	16160 Nov 03 11:11	8°M42'19	
	16159 Nov 29 16:59	0° ∡		morning max el	16160 Nov 17 17:45	16°M26'16	27°42'48
morning max el	16159 Dec 06 19:31	5° ∡ ¹25'47	26°47'04		16160 Nov 28 21:53	0° ∡ ¹	
	16159 Dec 24 19:34	0°ಕ		asc. node	16160 Dec 13 10:37	24° ∡ 17'41	
asc. node	16159 Dec 27 13:33	4° る 54'36			16160 Dec 16 08:11	0°ಕ	
morning set	16160 Jan 05 09:03	22° る 33'45		morning set	16160 Dec 19 15:27	6° පි 50'00	
	16160 Jan 08 18:38	0° ≈		max. Earth dist.	16160 Dec 25 23:27	20° る 41'45	1.31010 AU
superior conj	16160 Jan 12 03:37	7° ≈ 32'08	1°38'07	superior conj	16160 Dec 26 14:59	22° る 08'40	1°34'25
minimum elong	16160 Jan 12 03:29	7° ≈ 31'26	1°38'44	minimum elong	16160 Dec 26 13:51	22° る 02'19	1°35'03
max. Earth dist.	16160 Jan 12 15:43	8° ≈ 39'52	1.31138 AU		16160 Dec 30 03:20	0° ≈	
evening rise	16160 Jan 19 00:57	22° ≈ 39'21		evening rise	16161 Jan 02 08:05	7° ≈ 00'33	
	16160 Jan 22 14:15	0°) €		-	16161 Jan 14 03:25	0°)	
desc. node	16160 Jan 28 23:45	12°) €07'17		desc. node	16161 Jan 14 20:30	1°) 12'31	
	16160 Feb 09 08:16	0° Y		evening max el	16161 Jan 31 01:35	22°) € 46′43	26°17'44
evening max el	16160 Feb 19 02:41	11° Y °25'03	27°14'32	retrograde	16161 Feb 14 01:03	29°) 53′45	
retrograde	16160 Mar 04 03:28	18° Y '44'22		evening set	16161 Feb 20 07:02	28° ¥ 20′23	
evening set	16160 Mar 10 19:50	16° Ƴ 46′27		min. Earth dist.	16161 Feb 24 14:51	25°) 42′48	0.58007 AU
min. Earth dist.	16160 Mar 14 17:00	14° Y ′02'02	0.60211 AU	inferior conj	16161 Feb 27 17:11	23° ∺ 27'36	-3°36'35
inferior conj	16160 Mar 17 22:07	11° Y 19'51	-2°05'49	minimum elong	16161 Feb 28 01:23	23°) 12′39	3°33'37
minimum elong	16160 Mar 18 02:50	11° Y ′09'53	2°04'01	morning rise	16161 Mar 07 23:01	19° ₩ 01'11	
asc. node	16160 Mar 24 11:03	6° Ƴ 53'47		direct	16161 Mar 09 22:07	18° ¥ 48′20	
morning rise	16160 Mar 25 13:19	6° Ƴ 31'50		asc. node	16161 Mar 11 08:22	18° ¥ 55′25	
direct	16160 Mar 27 14:31	6° Y 15′05		morning max el	16161 Mar 18 05:56	22° ¥ 54'34	18°33'16
morning max el	16160 Apr 03 21:07	9° Y ′53′08	17°59'52		16161 Mar 23 20:33	0 ° Υ	
	16160 Apr 17 01:57	0° 8		morning set	16161 Apr 03 04:29	18° Y 26'30	
morning set	16160 Apr 19 10:53	4° 8 20'46			16161 Apr 09 05:03	$0^{\circ}S$	
desc. node	16160 Apr 26 01:08	16° 8 23'30					
				superior conj	16161 Apr 12 05:27	5° 8 39'24	0°05'45
superior conj	16160 Apr 29 17:43	22° 8 57'20	-0°30'06	minimum elong	16161 Apr 12 05:50	5° 8 41'08	0°05'18
minimum elong	16160 Apr 29 15:08	22° 8 46'01	0°30'13	behind sun begin	16161 Apr 11 23:07	5° 8 10'00	
	16160 May 03 19:33	Π $^{\circ}0$		behind sun end	16161 Apr 12 12:33	6° 8 12'13	
max. Earth dist.	16160 May 07 06:48	5° Ⅱ 49′28	1.42440 AU	desc. node	16161 Apr 12 21:52	6° 8 55'11	
evening rise	16160 May 12 21:01	14° Ⅱ 54'13		max. Earth dist.	16161 Apr 19 15:31	18° 8 57'25	1.40275 AU
	16160 May 22 16:14	0 \circ \odot		evening rise	16161 Apr 23 19:11	26° 8 00'28	
	16160 Jun 14 06:08	0 $^{\circ}\Omega$			16161 Apr 26 05:20	Π $^{\circ}0$	
evening max el	16160 Jun 14 19:13	0° Ω 33'05	22°20'26		16161 May 16 08:25	0 \circ	
asc. node	16160 Jun 20 09:13	5° Ω 00'40		evening max el	16161 May 28 09:49	14° © 27'51	23°41'52
retrograde	16160 Jun 24 11:47	6° Ω 13'07		asc. node	16161 Jun 07 06:10	20° 5 46'06	
evening set	16160 Jun 29 07:35	4° Ω 11'35		retrograde	16161 Jun 08 06:45	20° © 50'35	
	16160 Jul 03 00:40	30° ₹ 5		evening set	16161 Jun 13 14:13	18° © 34'49	
inferior conj	16160 Jul 04 13:52	27° © 51'52	3°04'46	inferior conj	16161 Jun 18 23:29	12° 5 07'56	2°50'47
minimum elong	16160 Jul 04 13:06	27° © 54'31	3°04'02	minimum elong	16161 Jun 18 21:56	12° © 13'16	2°49'49
min. Earth dist.	16160 Jul 04 11:09	28° © 01'21	0.69154 AU	min. Earth dist.	16161 Jun 18 07:41	13°502'02	0.68967 AU
morning rise	16160 Jul 09 18:28	21° © 38'16		morning rise	16161 Jun 24 05:38	6°902'52	
direct	16160 Jul 14 10:21	19° 5 641'17		direct	16161 Jun 28 09:27	4° © 25'25	
desc. node	16160 Jul 23 00:25	24° 5 27'46		morning max el	16161 Jul 06 10:07	8°958'31	20°29'40
morning max el	16160 Jul 23 14:29	25° © 02'19	21°48'02	desc. node	16161 Jul 09 21:38	12° 5 47'52	
	16160 Jul 28 01:25	$0^{\circ}\Omega$			16161 Jul 22 12:34	$0^{\circ}\Omega$	
	16160 Aug 18 08:46	0° ™		morning set	16161 Aug 04 08:10	19° Ω 17'48	
morning set	16160 Aug 24 20:53	10° Mp 08'25			16161 Aug 11 04:24	0° ™	
max. Earth dist.	16160 Aug 30 20:33	19° m 50'22	1.42052 AU	max. Earth dist.	16161 Aug 13 06:44	3° m 20'38	1.43976 AU

superior conj	16161 Aug 19 14:42	13° m)38'51	1045122	max. Earth dist.	16162 Jul 26 22:13	170 () 20122	1.45322 AU
minimum elong	16161 Aug 19 14.42 16161 Aug 19 22:35	13 my 38 31 14° my 11'28		max. Earm dist.	10102 Jul 20 22.13	1/ 06/20/22	1.43322 AU
minimum ciong	16161 Aug 29 06:13	0° ⊡	1 4301	superior conj	16162 Jul 30 17:29	23°Ω28'47	-2°08'26
evening rise	16161 Sep 01 03:15	5° ₽ 00'06		minimum elong	16162 Jul 30 22:58	23°Ω50'34	
asc. node	16161 Sep 03 06:45	8° £ 44'27			16162 Aug 03 19:24	0° m/y	
	16161 Sep 17 00:49	0° M ,		evening rise	16162 Aug 14 00:43	16° Mp 42'56	
evening max el	16161 Sep 17 22:12	0°M55'48	18°01'16	asc. node	16162 Aug 21 03:24	28° m 26'59	
retrograde	16161 Sep 24 11:07	4°ML19'22			16162 Aug 22 02:24	0∘ ⊽	
evening set	16161 Sep 26 22:48	3°ML49'17		evening max el	16162 Sep 01 13:02	14° ≏ 27'21	18°11'34
	16161 Oct 02 05:24	30° ₹ Ω		retrograde	16162 Sep 07 21:44	17° ≏ 48'56	
inferior conj	16161 Oct 03 13:08	28° ≏ 41′28	0°41'18	evening set	16162 Sep 10 18:05	17° ≏ 05'19	
minimum elong	16161 Oct 03 14:20	28° ≏ 38′26	0°41'08	inferior conj	16162 Sep 16 19:21	11° ≏ 40'50	1°41'42
desc. node	16161 Oct 05 18:49	26° ≏ 25'49		minimum elong	16162 Sep 16 21:35	11° ≏ 34'31	1°41'04
min. Earth dist.	16161 Oct 06 12:10	25° ≏ 43'19	0.61768 AU	min. Earth dist.	16162 Sep 19 06:57	8° ≏ 53'17	0.63955 AU
morning rise	16161 Oct 10 03:09	22° ≏ 39'58		morning rise	16162 Sep 22 23:14	5° £ 23'04	
direct	16161 Oct 16 19:34	20° ≏ 20'26		desc. node	16162 Sep 22 16:11	5° ≏ 37'04	
morning max el	16161 Oct 30 23:15	28° ≏ 16'39	27°59'08	direct	16162 Sep 29 13:36	2° ≏ 50'02	
	16161 Nov 01 15:29	0° M ₊		morning max el	16162 Oct 13 09:00	10° ≙ 48'41	27°38'04
	16161 Nov 22 17:57	0° ∡ 7			16162 Oct 28 13:19	0° M	
asc. node	16161 Nov 30 07:37	14° 🗷 01'05			16162 Nov 15 03:54	0° ∡ 7	
morning set	16161 Dec 03 16:12	20° ∡ 747′23		morning set	16162 Nov 17 08:54	4°×720'09	
F 41 F 4	16161 Dec 08 00:25	0°る	1 21 425 ATT	asc. node	16162 Nov 17 04:31	3° х 58′23	1 22424 ATT
max. Earth dist.	16161 Dec 09 04:23	2° る 32'30	1.31435 AU	max. Earth dist.	16162 Nov 22 02:38	14° ₹ 03'55	1.32424 AU
superior conj	16161 Dec 11 00:52	6° る 37'42	1°24'40	superior conj	16162 Nov 25 07:18	20° ∡ 54'00	1°08'46
minimum elong	16161 Dec 10 22:56	6° ප 26'58	1°25'11	minimum elong	16162 Nov 25 04:57	20° ∡ ¹41'16	1°09'09
evening rise	16161 Dec 17 17:57	21° ට 26'54		-	16162 Nov 29 11:28	5°0	
	16161 Dec 21 19:24	0° ≈		evening rise	16162 Dec 02 04:45	5°₹54'07	
desc. node	16162 Jan 01 17:20	19° ≈ 35′29			16162 Dec 14 18:46	0° ≈	
	16162 Jan 09 12:25	0° ∀		desc. node	16162 Dec 19 14:15	7° ≈ 01'10	
evening max el	16162 Jan 12 15:55	3°) 16′49	24°51'16	evening max el	16162 Dec 25 01:29	13° ≈ 15'47	23°09'06
retrograde	16162 Jan 26 10:19	10° 米 09′56		retrograde	16163 Jan 07 06:30	19° ≈ 47'54	
evening set	16162 Jan 31 20:49	9° ∺ 04'10		evening set	16163 Jan 11 12:34	19° ≈ 08'42	
min. Earth dist.	16162 Feb 06 04:02	6° ∺ 17'27	0.56109 AU	min. Earth dist.	16163 Jan 18 11:48	15° ≈ 53'51	0.54816 AU
inferior conj	16162 Feb 08 15:08	4°) 43′49		inferior conj	16163 Jan 19 17:36	15° ≈ 11'03	
minimum elong	16162 Feb 09 00:23	4° ∺ 29'09	4°58'28	minimum elong	16163 Jan 19 21:51	15° ≈ 04'56	5°54'05
morning rise	16162 Feb 17 06:22	0°) 38'31		morning rise	16163 Jan 28 08:28	11° ≈ 20′20	
direct	16162 Feb 19 10:10	0°) €25'38		direct	16163 Jan 31 03:46	11° ≈ 01'44	
asc. node	16162 Feb 26 05:43	2°\(\frac{1}{4}3'57	10020141	morning max el	16163 Feb 11 12:26	16°≈31'10	20°47'18
morning max el	16162 Mar 01 04:15	5° ¥ 10'19 0° Υ	19°28'41	asc. node	16163 Feb 13 03:04	18°≈10'42	
. ,	16162 Mar 16 19:56			. ,	16163 Feb 21 11:50	0° ∺	
morning set	16162 Mar 18 06:43	2° Y 53'23		morning set	16163 Mar 02 14:33 16163 Mar 08 14:12	17° ¥ 32'40 0° Ƴ	
superior conj	16162 Mar 26 09:23	19° Ƴ 04'22	0°36'35		10103 11111 00 11112	•	
minimum elong	16162 Mar 26 11:25	19° Ƴ 14'15	0°36'04	superior conj	16163 Mar 10 01:24	3° Y 00'54	1°01'19
desc. node	16162 Mar 30 18:32	27° Ƴ 27'02		minimum elong	16163 Mar 10 03:57	3° Ƴ 13'52	1°00'58
	16162 Apr 01 03:29	0°8		max. Earth dist.	16163 Mar 15 05:35	13° Y 20′10	1.35783 AU
max. Earth dist.	16162 Apr 01 21:33	1° 8 22'51	1.37973 AU	desc. node	16163 Mar 17 15:12	17° Ƴ 55'34	
evening rise	16162 Apr 05 14:09	7° 8 59'36		evening rise	16163 Mar 19 03:13	20° Ƴ 43'38	
	16162 Apr 19 02:00	Π °0			16163 Mar 24 07:36	0°8	
evening max el	16162 May 10 23:08	28° Ⅲ 22'22	25°01'15		16163 Apr 13 00:15	$\Pi^{\circ}0$	
	16162 May 12 16:24	0 \circ \odot		evening max el	16163 Apr 23 12:47	12° Ⅱ 13'52	26°11'14
retrograde	16162 May 22 21:59	5° 5 20'01		retrograde	16163 May 06 08:29	19° Ⅱ 34'13	
asc. node	16162 May 25 03:13	4° © 59'30		asc. node	16163 May 12 00:22	17° Ⅱ 28'29	
evening set	16162 May 28 16:48	2°953'43		evening set	16163 May 12 13:34	17° Ⅱ 02'22	
	16162 May 31 11:24	30° Ŗ Ⅱ		min. Earth dist.	16163 May 16 16:25	12° ∏ 42'18	0.67164 AU
min. Earth dist.	16162 Jun 02 02:08	27° I 57'57	0.68296 AU	inferior conj	16163 May 18 10:15	10° Ⅲ 32'48	1°50'12
inferior conj	16162 Jun 03 06:57	26° Ⅱ 23'04	2°26'11	minimum elong	16163 May 18 08:06	10° Ⅱ 39′28	1°48'52
minimum elong	16162 Jun 03 04:52		2°24'57	morning rise	16163 May 24 03:28	4° Ⅱ 48'05	
morning rise	16162 Jun 08 17:16	20° I I27'32		direct	16163 May 27 09:11	3° Ⅱ 48'38	1002506
direct	16162 Jun 12 09:36	19° Ⅱ 09'46	1002421	morning max el	16163 Jun 02 22:31	7° Ⅱ 18'16	18°35'06
morning max el	16162 Jun 19 12:53	23° Ⅱ 04'56 0° ⑤	19°24'31	desc. node	16163 Jun 13 15:51	21° Ⅱ 24'35 0° ⑤	
desc. node	16162 Jun 25 09:58 16162 Jun 26 18:47	0°ഇ 1°ഇ50'32		morning set	16163 Jun 19 05:50 16163 Jun 24 05:34	0°ల 7° ల 548'10	
greatest brilliancy	16162 Jul 26 18:47 16162 Jul 02 05:03	9°935'42	-0.7m	morning set	16163 Jul 24 05:34 16163 Jul 08 10:36	0°Ω	
morning set	16162 Jul 14 12:21	9 \$33 42 28°\$12'47	0.7111	max. Earth dist.	16163 Jul 09 17:20	0 δί 1° Ω 59'44	1.45970 AU
morning set	16162 Jul 14 12.21 16162 Jul 15 16:15	28 3 1247 0° Ω		max. Earm uist.	10103 Jul 09 17.20	1 063744	1.73710 AU
	10102341 13 10.13	~ U.					

superior conj	16163 Jul 10 04:50	2° Ω 44'34		superior conj	16164 Jun 18 16:07	12° © 06'03	
minimum elong	16163 Jul 10 03:01	2° Ω 37'28	2°14'22	minimum elong	16164 Jun 18 08:16	11° © 35'11	1°59'16
evening rise	16163 Jul 25 21:21	27° Ω 22'48		max. Earth dist.	16164 Jun 21 13:58	16° © 39'53	1.45860 AU
	16163 Jul 27 13:02	0° m)			16164 Jun 30 04:03	0 \circ Ω	
greatest brilliancy	16163 Aug 02 11:10	9° m 21'26	-0.8m	evening rise	16164 Jul 04 19:09	7° Ω 08'14	
asc. node	16163 Aug 08 00:06	17° m 50'23		greatest brilliancy	16164 Jul 17 13:44	26° £ 33′05	-0.7m
evening max el	16163 Aug 16 02:00	28° m 12'41	18°39'22		16164 Jul 19 22:22	0° m y	
	16163 Aug 18 03:27	0∘ ⊽		asc. node	16164 Jul 24 20:53	6° Mp 47′43	
retrograde	16163 Aug 22 15:17	1° ≙ 45'08		evening max el	16164 Jul 29 10:38	12° m 05'19	19°23'50
evening set	16163 Aug 25 20:58	0° ≙ 45'29		retrograde	16164 Aug 05 12:47	16°My01'29	
	16163 Aug 26 22:50	30°₽,₩)		evening set	16164 Aug 09 04:23	14° m 44'17	
inferior conj	16163 Aug 31 12:39	25° Mp 06'20	2°24'13	inferior conj	16164 Aug 14 13:47	8° m 51'53	2°51'23
minimum elong	16163 Aug 31 14:52	24° m 59'28	2°23'33	minimum elong	16164 Aug 14 15:24	8° Mp 46'34	2°50'48
min. Earth dist.	16163 Sep 02 10:40	22° Mp 44'46	0.65867 AU	min. Earth dist.	16164 Aug 15 21:42	7° Mg 07'01	0.67385 AU
morning rise	16163 Sep 06 07:40	18° m 40'59		morning rise	16164 Aug 20 01:50	2° m 25'18	
desc. node	16163 Sep 09 13:34	16° m 39'43			16164 Aug 24 14:16	30° R Ω	
direct	16163 Sep 12 15:36	16° Mp 03'29		direct	16164 Aug 26 00:12	29° Ω 51'49	
morning max el	16163 Sep 25 20:16	23° m 50'43	26°46'10	desc. node	16164 Aug 26 10:57	29° Ω 52'36	
	16163 Oct 01 08:49	0∘ 亚			16164 Aug 27 11:14	0° m y	
	16163 Oct 21 22:17	0° M ₊		morning max el	16164 Sep 07 07:31	7° Mp 12′35	25°32'30
morning set	16163 Oct 31 14:32	17° M 20'59			16164 Sep 25 02:29	0。 ಹ	
asc. node	16163 Nov 04 01:22	24°M04'17		morning set	16164 Oct 13 05:34	29° ≏ 42'38	
max. Earth dist.	16163 Nov 04 15:28	25° M 14'35	1.33976 AU		16164 Oct 13 09:24	0° M ₊	
	16163 Nov 06 23:48	0° ∡ ¹		max. Earth dist.	16164 Oct 16 19:22	6° ™ 19'02	1.36016 AU
				asc. node	16164 Oct 20 22:10	14°M15'04	
superior conj	16163 Nov 09 07:57	4° ∡ 751'05	0°46'43				
minimum elong	16163 Nov 09 05:47	4° ⋌ ³39'47 –	0°46'59	superior conj	16164 Oct 23 00:02	18° M 22'46	0°18'44
evening rise	16163 Nov 16 14:36	20° ∡ 17'10		minimum elong	16164 Oct 22 22:55	18° M ₊17'12	0°19'01
	16163 Nov 21 08:05	0°る			16164 Oct 28 16:40	0° ∡ ¹	
desc. node	16163 Dec 06 11:15	23°る08'43	21020102	evening rise	16164 Oct 30 21:30	4° ∡ ³31'53	
evening max el	16163 Dec 06 15:07	23° る 18'17	21°29'02		16164 Nov 14 06:38	0°る	2000 4150
retrograde	16163 Dec 18 16:49	29° ろ 16'18		evening max el	16164 Nov 17 17:04	3°る57'41	20°04'59
evening set	16163 Dec 21 16:36	28° ろ 55'53	5052124	desc. node	16164 Nov 22 08:20	7°る34'38 9°る11'35	
inferior conj	16163 Dec 30 08:53 16163 Dec 30 03:50	25°る05'54 25°る12'59		retrograde	16164 Nov 28 05:00 16164 Nov 30 08:35	9° ろ 11°33 8° ろ 59'27	
minimum elong min. Earth dist.	16163 Dec 30 03.30 16163 Dec 30 17:05	23 3 12 39 24° 3 54'24	0.54378 AU	evening set inferior conj	16164 Nov 30 08.33	8 03927 5° る 01'48	1052115
morning rise	16164 Jan 07 15:31	24 03424 21°る16'50	0.54576 AU	minimum elong	16164 Dec 08 17:23	5°る16'47	
direct	16164 Jan 11 11:50	20°る44'41		min. Earth dist.	16164 Dec 10 23:13	3°る55'50	0.54886 AU
morning max el	16164 Jan 24 05:52	26°පි56'25	22°26'48	morning rise	16164 Dec 17 01:17	0° る 55'38	0.54000 AC
morning max or	16164 Jan 27 03:33	0° ≈	22 20 10	direct	16164 Dec 21 22:58	0° ろ 03'23	
asc. node	16164 Jan 31 00:23	4° ≈ 56'40		morning max el	16165 Jan 04 14:45	6° る 49'01	24°16'55
	16164 Feb 13 23:37	0° ∀		asc. node	16165 Jan 16 21:39	22° る 44'07	
morning set	16164 Feb 15 01:28	2°) 16′17			16165 Jan 21 02:32	0° ≈	
C				morning set	16165 Jan 29 13:29	16° ≈ 58'44	
superior conj	16164 Feb 22 01:59	17° ¥ 18'14	1°19'40	Č	16165 Feb 04 12:28	0° ∀	
minimum elong	16164 Feb 22 04:15	17° ¥ 30′13	1°19'38				
max. Earth dist.	16164 Feb 25 20:06	25°) €09'25	1.33895 AU	superior conj	16165 Feb 05 08:22	1°) 48′55	1°31'41
	16164 Feb 28 05:31	0° Y		minimum elong	16165 Feb 05 09:51	1° ¥ 57′05	1°31'58
evening rise	16164 Mar 01 06:38	4° Υ 01'42		max. Earth dist.	16165 Feb 07 18:21	7°) €03'26	1.32429 AU
desc. node	16164 Mar 03 11:51	8° Y 16'02		evening rise	16165 Feb 12 21:09	17°) 45′32	
	16164 Mar 16 03:20	9° 8		desc. node	16165 Feb 18 08:31	28°) 24′01	
evening max el	16164 Apr 05 02:39	25° 8 53'28	27°04'21		16165 Feb 19 05:17	0° Y	
	16164 Apr 09 22:25	Π °0			16165 Mar 10 12:02	0° 8	
retrograde	16164 Apr 18 13:00	3° Ⅱ 24'04		evening max el	16165 Mar 18 15:19		27°33'08
evening set	16164 Apr 25 02:31	0° Ⅱ 52'35		retrograde	16165 Apr 01 10:35	16° 8 40'48	
	16164 Apr 26 03:44	30° ₹ 8		evening set	16165 Apr 08 05:22	14° 8 16'23	
asc. node	16164 Apr 27 21:37	28° 8 18'21		min. Earth dist.	16165 Apr 12 00:07	10° 8 59'39	0.63687 AU
min. Earth dist.	16164 Apr 29 00:25	27° 8 06'02	0.65607 AU	inferior conj	16165 Apr 14 18:21	8° 8 09'33	
inferior conj	16164 May 01 06:59	24° 8 30'34	1°01'42	minimum elong	16165 Apr 14 18:22	8° 8 09'29	0°00'49
minimum elong	16164 May 01 05:27	24° 8 34'58	1°00'36	transit middle	16165 Apr 14 18:22	8° 8 09'29	0°00'49
morning rise	16164 May 07 09:55	18° 8 58'29		transit begin	16165 Apr 14 15:13	8° 8 17'37	
direct	16164 May 10 05:59	18° 8 15'03	10002:2	transit end	16165 Apr 14 21:31	8° 8 01'23	
morning max el	16164 May 16 13:19	21° 8 31'41	18°02'34	asc. node	16165 Apr 14 18:55	8° 8 08'05	
1 1	16164 May 23 06:38	0°II		morning rise	16165 Apr 21 09:49	2° 8 52'35	
desc. node	16164 May 30 12:50	11° Ⅱ 20'58		direct	16165 Apr 23 21:18	2° 8 22'12	17047110
morning set	16164 Jun 04 00:32	18° Ⅱ 38'16		morning max el	16165 Apr 30 06:47	5° ႘ 37'53	17°47'19
	16164 Jun 11 01:12	0ං ව			16165 May 16 11:48	Π $\circ 0$	

morning set	16165 May 16 22:04	0°∏43'42			16166 Apr 21 18:33	0°B	
desc. node	16165 May 17 09:43	1° П 33'22		morning set	16166 Apr 29 17:11	13° 8 49'25	
dese. Hode	10103 Way 17 07.13	1 433 22		desc. node	16166 May 04 06:33	21° 8 56'53	
superior conj	16165 May 29 18:54	22° Ⅱ 12'57	-1°29'09	dese. node	16166 May 08 21:06	0°II	
minimum elong	16165 May 29 10:52	21° I I40'20				-	
	16165 Jun 03 15:13	0ಂತಾ		superior conj	16166 May 10 20:47	3° Ⅱ 24'15	-0°52'02
max. Earth dist.	16165 Jun 04 09:22	1°9512'02	1.45014 AU	minimum elong	16166 May 10 16:04	3° Ⅱ 04'09	0°51'56
evening rise	16165 Jun 14 05:48	16° © 31'39		max. Earth dist.	16166 May 18 01:03	15° Ⅲ 20′07	1.43522 AU
C	16165 Jun 23 04:02	$0^{\circ}\Omega$		evening rise	16166 May 24 22:09	26° Ⅱ 16'44	
asc. node	16165 Jul 11 17:42	25° Ω 09'07		C	16166 May 27 07:46	0° ©	
evening max el	16165 Jul 12 13:21	25° Ω 59'27	20°23'23		16166 Jun 17 01:26	$0^{\circ}\Omega$	
	16165 Jul 18 00:35	0° ™		evening max el	16166 Jun 25 10:04	9° £ 53′31	21°35'09
retrograde	16165 Jul 20 11:51	0°10°11°00		asc. node	16166 Jun 28 14:35	12° Ω 42'48	
	16165 Jul 22 20:12	30° R Ω		retrograde	16166 Jul 04 10:33	15° Ω 08'15	
evening set	16165 Jul 24 13:56	28° Ω 55'51		evening set	16166 Jul 08 23:41	13° Ω 15′55	
inferior conj	16165 Jul 29 20:04	22° Ω 51′28	3°05'29	inferior conj	16166 Jul 14 05:13	7° Ω 01′03	3°08'06
minimum elong	16165 Jul 29 20:47	22° Ω 48'58	3°04'57	minimum elong	16166 Jul 14 04:59	7° Ω 01'51	3°07'29
min. Earth dist.	16165 Jul 30 14:10	21° N 49'24	0.68450 AU	min. Earth dist.	16166 Jul 14 09:59	6° Ω 44'24	0.69037 AU
morning rise	16165 Aug 04 03:19	16° Ω 27'50		morning rise	16166 Jul 19 10:04	0° Ω 43′05	
direct	16165 Aug 09 14:16	14° Ω 05′07			16166 Jul 20 07:53	30°Rூ	
desc. node	16165 Aug 13 08:18	15° Ω 00'50		direct	16166 Jul 24 08:52	28° © 35'53	
morning max el	16165 Aug 20 18:31	20° Ω 45'50	24°06'29		16166 Jul 28 20:01	$0^{\circ}\Omega$	
	16165 Aug 28 17:28	0° m y		desc. node	16166 Jul 31 05:35	1° Ω 40'44	
	16165 Sep 18 07:15	0∘ ⊽		morning max el	16166 Aug 03 06:45	4° Ω 27'17	22°37'20
morning set	16165 Sep 25 01:49	11° ≏ 15'16			16166 Aug 22 21:15	0° m	
max. Earth dist.	16165 Sep 28 18:32	17° ≏ 42'32	1.38363 AU	morning set	16166 Sep 05 23:29	21° m 50'33	
	16165 Oct 05 11:10	0° M			16166 Sep 10 21:25	0∘ ⊽	
				max. Earth dist.	16166 Sep 10 18:43	29° m 48'33	1.40761 AU
superior conj	16165 Oct 06 04:00	1° M 19'59					
minimum elong	16165 Oct 06 04:59	1° M 24'41	0°13'58	superior conj	16166 Sep 18 15:45	13° ≏ 33'32	
behind sun begin	16165 Oct 06 01:27	1°M07'50		minimum elong	16166 Sep 18 19:47	13° ≏ 51'42	0°50'10
behind sun end	16165 Oct 06 08:31	1°M41'32		asc. node	16166 Sep 24 15:35	24° Ω 35'09	
asc. node	16165 Oct 07 18:53	4°M26'28			16166 Sep 27 12:36	0°M,	
evening rise	16165 Oct 14 22:53	18°M31'18		evening rise	16166 Sep 28 15:36	2°M07'33	10000155
	16165 Oct 20 22:04	0° ⊀ ⁷	10000150	evening max el	16166 Oct 14 13:24	27°M43'35	18°22'57
evening max el	16165 Oct 31 09:23	15° ₹ 26'56	19°02'50	. 1	16166 Oct 17 06:57	0° ⊼ ¹	
retrograde	16165 Nov 09 07:29	19° ₹ 56'31		retrograde	16166 Oct 22 05:07	1° 🗷 37'10	
desc. node	16165 Nov 09 05:30 16165 Nov 11 04:47	19° х 56′30 19° х 45′16		evening set	16166 Oct 24 05:19 16166 Oct 27 02:42	1°×721'47	
evening set		15° × '45'16	2015152	desc. node		0° ፟ጆ 10'40 30° ዪጤ	
inferior conj minimum elong	16165 Nov 19 13:50 16165 Nov 19 05:51	15° ₹ ′3010		inferior conj	16166 Oct 27 10:13 16166 Oct 31 21:57	26°M45'46	1032'51
min. Earth dist.	16165 Nov 22 09:48	13° × 43'30'	0.56239 AU	minimum elong	16166 Oct 31 18:22	26°M52'59	1°30'49
morning rise	16165 Nov 27 04:15	10° √ 50'44	0.30239 AU	min. Earth dist.	16166 Nov 04 03:44	24°M09'44	0.58197 AU
direct	16165 Dec 02 22:04	9° × ⁷ 33'37		morning rise	16166 Nov 08 03:54	21°M29'19	0.30177 AC
morning max el	16165 Dec 17 01:01	16° ∡ 746'45	25°59'20	direct	16166 Nov 14 11:53	19°M45'04	
morning man vi	16165 Dec 27 20:08	0°る	20 00 20	morning max el	16166 Nov 28 18:34	27°M20'16	27°15'28
asc. node	16166 Jan 03 18:49	11° る 17'29		morning man vi	16166 Dec 01 08:27	0°×7	2, 1020
	16166 Jan 13 07:06	0° ≈			16166 Dec 21 10:33	0°ਰ	
morning set	16166 Jan 14 00:44	1° ≈ 34'39		asc. node	16166 Dec 21 15:54	0° る 25'05	
C				morning set	16166 Dec 29 09:25	15° る 59'22	
superior conj	16166 Jan 20 18:14	16° ≈ 26′16	1°37'31	Ç	16167 Jan 04 18:02	0° ≈	
minimum elong	16166 Jan 20 18:43	16° ≈ 28'59	1°38'03				
max. Earth dist.	16166 Jan 21 22:39	19° ≈ 04'05	1.31451 AU	superior conj	16167 Jan 05 05:35	1° ≈ 04'43	1°37'17
	16166 Jan 26 23:23	0° ∀		minimum elong	16167 Jan 05 05:01	1° ≈ 01'31	1°37'56
evening rise	16166 Jan 27 19:55	1°) 48′02		max. Earth dist.	16167 Jan 05 05:58	1° ≈ 06'51	1.31007 AU
desc. node	16166 Feb 05 05:14	18°) (13′47		evening rise	16167 Jan 12 00:35	16° ≈ 03'43	
	16166 Feb 12 03:07	0° Y			16167 Jan 18 21:36	0° ∀	
evening max el	16166 Mar 01 00:31	21° Y ′49′01	27°31'17	desc. node	16167 Jan 23 01:58	7°) 37'49	
retrograde	16166 Mar 15 00:18	29° Y 14'41			16167 Feb 07 14:38	$0^{\circ}\Upsilon$	
evening set	16166 Mar 21 19:27	27° Y ′04'41		evening max el	16167 Feb 11 03:44	3° Y 40'35	26°54'37
min. Earth dist.	16166 Mar 25 14:04	24° Y 11'23	0.61507 AU	retrograde	16167 Feb 25 04:40	10° Ƴ 55'58	
inferior conj	16166 Mar 28 17:00	21° Y 21'10	-1°16'28	evening set	16167 Mar 03 17:31	9° Ƴ 07'44	
minimum elong	16166 Mar 28 19:43	21° Y 14'58	1°15'33	min. Earth dist.	16167 Mar 07 17:50	6° Y 27'54	0.59241 AU
asc. node	16166 Apr 01 16:13	18° Y ′03'46		inferior conj	16167 Mar 10 23:08	3° Y ′54′50	
morning rise	16166 Apr 04 23:15	16° Y 22′10		minimum elong	16167 Mar 11 05:25	3° Y '42'22	2°41'37
direct	16166 Apr 07 03:32	16° Y ′01'31			16167 Mar 16 19:21	30° ₹	
morning max el	16166 Apr 13 23:51	19° Ƴ 28'00	17°49'59	morning rise	16167 Mar 18 20:54	29°) 16′10	

,	1616734 10 12 22	2001/07/51			1/1/0 F 1 20 00 25	150 1 41125	401.4107
asc. node	16167 Mar 19 13:32	29°) €07'51		inferior conj	16168 Feb 20 09:25	15°) (41'37	
direct	16167 Mar 20 20:27	29°) €01'39		minimum elong	16168 Feb 20 18:34	15° ¥ 25'52	4°11'24
	16167 Mar 24 17:27	0° Υ		morning rise	16168 Feb 28 20:09	11°) €24'11	
morning max el	16167 Mar 28 12:50	2° Y ′50′33	18°11'37	direct	16168 Mar 01 20:01	11° 米 11'55	
morning set	16167 Apr 13 03:59	27° Ƴ 37'09		asc. node	16168 Mar 05 10:51	11° ¥ 54'38	
	16167 Apr 14 10:25	$_{0\circ}$ 8		morning max el	16168 Mar 10 17:42	15°) 34′00	18°54'02
desc. node	16167 Apr 21 03:18	12° 8 26'31			16168 Mar 20 19:19	0 ° Υ	
				morning set	16168 Mar 27 01:42	11° Y 53'04	
superior conj	16167 Apr 22 21:11	15° 8 35'54	-0°14'28				
minimum elong	16167 Apr 22 20:01	15° 8 30'38	0°14'44	superior conj	16168 Apr 04 16:19	28° Ƴ 37'17	0°19'30
behind sun begin	16167 Apr 22 17:05	15° 8 17'26		minimum elong	16168 Apr 04 17:33	28° Y 43'07	0°19'00
behind sun end	16167 Apr 22 22:57	15° 8 43'48		•	16168 Apr 05 09:50	0°8	
max. Earth dist.	16167 Apr 30 11:36	28° 8 49'46	1.41545 AU	desc. node	16168 Apr 07 00:02	2° 8 58'38	
	16167 May 01 04:19	0°II		max. Earth dist.	16168 Apr 11 18:31	11° 8 37'44	1.39299 AU
evening rise	16167 May 05 08:05	6° Ⅱ 50'52		evening rise	16168 Apr 15 15:22	18° 8 20'36	
e vennig rise	16167 May 20 11:05	0°95		evening rise	16168 Apr 22 17:36	0°II	
evening max el	16167 Jun 08 02:15	23°9647'40	22°54'50		16168 May 13 19:10	0°©	
asc. node	16167 Jun 15 11:32	29° © 12'49	22 34 30	avanina may al			24°16'21
	16167 Jun 18 07:16			evening max el	16168 May 20 16:15		24 10 21
retrograde		29°547'03		retrograde	16168 Jun 01 00:44	14°521'36	
evening set	16167 Jun 23 07:55	27°539'16		asc. node	16168 Jun 01 08:33	14°521'09	
inferior conj	16167 Jun 28 15:12	21° © 16'00	3°00'08	evening set	16168 Jun 06 13:01	12° © 01'09	
minimum elong	16167 Jun 28 14:05	21° © 19'53	2°59'18	min. Earth dist.	16168 Jun 11 02:56	6°944'01	0.68743 AU
min. Earth dist.	16167 Jun 28 06:58	21° © 44'38	0.69135 AU	inferior conj	16168 Jun 12 00:10	5° © 32'18	2°41'42
morning rise	16167 Jul 03 20:08	15° © 05'35		minimum elong	16168 Jun 11 22:21	5° 5 38'27	2°40'37
direct	16167 Jul 08 06:47	13°916'46			16168 Jun 16 17:22	30° Ŗ Ⅱ	
morning max el	16167 Jul 16 22:47	18° © 17'00	21°13'11	morning rise	16168 Jun 17 07:44	29° Ⅲ 30′55	
desc. node	16167 Jul 18 02:49	19° 5 29'22		direct	16168 Jun 21 06:39	28° Ⅲ 01'43	
	16167 Jul 26 14:44	$0^{\circ}\Omega$			16168 Jun 26 05:57	0°©	
	16167 Aug 15 23:31	0° mp		morning max el	16168 Jun 28 21:14	2° © 17'08	20°00'04
morning set	16167 Aug 16 21:39	1° m) 26'27		desc. node	16168 Jul 04 00:01	8° 5 09'00	
max. Earth dist.	16167 Aug 24 00:21	12° mp 47'26	1.42933 AU		16168 Jul 19 07:36	0°N	
man. Bartin diot.	1010/1148 21 00:21	12 14 17 20	12/33/110	morning set	16168 Jul 26 03:38	10° Ω 23'23	
superior conj	16167 Aug 31 06:57	24° m 53'57	-1°27'05	max. Earth dist.	16168 Aug 05 13:03	26° Ω 35'49	1.44636 AU
minimum elong	16167 Aug 31 14:00	25° m) 24'01		max. Lartii dist.	16168 Aug 07 16:19	0°m	1.44030 AC
minimum ciong	-	0° ∿	1 2019		10108 Aug 07 10.19	עוויט	
	16167 Sep 03 06:10				16168 Aug 10 22:45	5° m) 15'51	1056150
evening rise	16167 Sep 11 19:32	15° ≏ 10'00		superior conj		ו כירו מוויר	-1-30/39
	=	1.40.0.2711.0			Č		
asc. node	16167 Sep 11 12:16	14° ≙ 37'18		minimum elong	16168 Aug 11 06:19	5° Mp 46'33	
	16167 Sep 11 12:16 16167 Sep 20 06:42	0° M			16168 Aug 11 06:19 16168 Aug 24 05:40	5° Mp 46'33 27° Mp 25'47	
evening max el	16167 Sep 11 12:16 16167 Sep 20 06:42 16167 Sep 28 00:48	0° ጤ 10° ጤ 37'48	18°03'42	minimum elong evening rise	16168 Aug 11 06:19 16168 Aug 24 05:40 16168 Aug 25 17:50	5° m/46'33 27° m/25'47 0° Ω	
evening max el retrograde	16167 Sep 11 12:16 16167 Sep 20 06:42 16167 Sep 28 00:48 16167 Oct 04 20:25	0°ጤ 10°ጤ37'48 14°ጤ08'09	18°03'42	minimum elong evening rise asc. node	16168 Aug 11 06:19 16168 Aug 24 05:40 16168 Aug 25 17:50 16168 Aug 28 08:56	5° m/46'33 27° m/25'47 0° <u>a</u> 4° <u>a</u> 28'32	1°56'47
evening max el retrograde evening set	16167 Sep 11 12:16 16167 Sep 20 06:42 16167 Sep 28 00:48	0° ጤ 10° ጤ 37'48	18°03'42	minimum elong evening rise asc. node evening max el	16168 Aug 11 06:19 16168 Aug 24 05:40 16168 Aug 25 17:50 16168 Aug 28 08:56 16168 Sep 10 15:28	5° m/46'33 27° m/25'47 0° Ω 4° Ω 28'32	
evening max el retrograde	16167 Sep 11 12:16 16167 Sep 20 06:42 16167 Sep 28 00:48 16167 Oct 04 20:25 16167 Oct 07 03:32 16167 Oct 13 23:58	0°ጤ 10°ጤ37'48 14°ጤ08'09	18°03'42	minimum elong evening rise asc. node	16168 Aug 11 06:19 16168 Aug 24 05:40 16168 Aug 25 17:50 16168 Aug 28 08:56	5° m/46'33 27° m/25'47 0° <u>a</u> 4° <u>a</u> 28'32	1°56'47
evening max el retrograde evening set	16167 Sep 11 12:16 16167 Sep 20 06:42 16167 Sep 28 00:48 16167 Oct 04 20:25 16167 Oct 07 03:32	0°M 10°M37'48 14°M08'09 13°M44'27		minimum elong evening rise asc. node evening max el	16168 Aug 11 06:19 16168 Aug 24 05:40 16168 Aug 25 17:50 16168 Aug 28 08:56 16168 Sep 10 15:28	5° m 46'33 27° m 25'47 0° Ω 4° Ω 28'32 23° Ω 58'42	1°56'47
evening max el retrograde evening set desc. node	16167 Sep 11 12:16 16167 Sep 20 06:42 16167 Sep 28 00:48 16167 Oct 04 20:25 16167 Oct 07 03:32 16167 Oct 13 23:58	0°M 10°M37'48 14°M08'09 13°M44'27 8°M54'33		minimum elong evening rise asc. node evening max el retrograde	16168 Aug 11 06:19 16168 Aug 24 05:40 16168 Aug 25 17:50 16168 Aug 28 08:56 16168 Sep 10 15:28 16168 Sep 17 01:16	5° Mp 46'33 27° Mp 25'47 0° <u>Ω</u> 4° <u>Ω</u> 28'32 23° <u>Ω</u> 58'42 27° <u>Ω</u> 19'27	1°56'47
evening max el retrograde evening set desc. node inferior conj	16167 Sep 11 12:16 16167 Sep 20 06:42 16167 Sep 28 00:48 16167 Oct 04 20:25 16167 Oct 07 03:32 16167 Oct 13 23:58 16167 Oct 14 02:52	0°M 10°M37'48 14°M08'09 13°M44'27 8°M54'33 8°M47'46	-0°02'18	minimum elong evening rise asc. node evening max el retrograde evening set	16168 Aug 11 06:19 16168 Aug 24 05:40 16168 Aug 25 17:50 16168 Aug 28 08:56 16168 Sep 10 15:28 16168 Sep 17 01:16 16168 Sep 19 16:41	5° M 46'33 27° M 25'47 0° Ω 4° Ω 28'32 23° Ω 58'42 27° Ω 19'27 26° Ω 43'48	1°56'47 18°03'27
evening max el retrograde evening set desc. node inferior conj minimum elong	16167 Sep 11 12:16 16167 Sep 20 06:42 16167 Sep 28 00:48 16167 Oct 04 20:25 16167 Oct 07 03:32 16167 Oct 13 23:58 16167 Oct 14 02:52 16167 Oct 14 02:48	0°M 10°M37'48 14°M08'09 13°M44'27 8°M54'33 8°M47'46 8°M47'55	-0°02'18 0°01'52	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj	16168 Aug 11 06:19 16168 Aug 24 05:40 16168 Aug 25 17:50 16168 Aug 28 08:56 16168 Sep 10 15:28 16168 Sep 17 01:16 16168 Sep 19 16:41 16168 Sep 26 01:02	5° 10/46'33 27° 10/25'47 0° 10 4° 10/25'32 23° 10/25'32 23° 10/25'32 26° 10/25'32 26° 10/25'32 26° 10/25'32 26° 10/25'32	1°56'47 18°03'27 1°09'16
evening max el retrograde evening set desc. node inferior conj minimum elong transit middle	16167 Sep 11 12:16 16167 Sep 20 06:42 16167 Sep 28 00:48 16167 Oct 04 20:25 16167 Oct 07 03:32 16167 Oct 13 23:58 16167 Oct 14 02:52 16167 Oct 14 02:48 16167 Oct 14 02:48	0°M 10°M37'48 14°M08'09 13°M44'27 8°M54'33 8°M47'46 8°M47'55	-0°02'18 0°01'52	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	16168 Aug 11 06:19 16168 Aug 24 05:40 16168 Aug 25 17:50 16168 Aug 28 08:56 16168 Sep 10 15:28 16168 Sep 17 01:16 16168 Sep 19 16:41 16168 Sep 26 01:02 16168 Sep 26 02:50	5° M 46'33 27° M 25'47 0° Ω 4° Ω 28'32 23° Ω 58'42 27° Ω 19'27 26° Ω 43'48 21° Ω 28'37 21° Ω 23'50	1°56'47 18°03'27 1°09'16 1°08'50
evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin	16167 Sep 11 12:16 16167 Sep 20 06:42 16167 Sep 28 00:48 16167 Oct 04 20:25 16167 Oct 07 03:32 16167 Oct 13 23:58 16167 Oct 14 02:52 16167 Oct 14 02:48 16167 Oct 14 02:48 16167 Oct 13 23:31	0°M 10°M37'48 14°M08'09 13°M44'27 8°M54'33 8°M47'46 8°M47'55 8°M47'55	-0°02'18 0°01'52	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	16168 Aug 11 06:19 16168 Aug 24 05:40 16168 Aug 25 17:50 16168 Aug 28 08:56 16168 Sep 10 15:28 16168 Sep 17 01:16 16168 Sep 19 16:41 16168 Sep 26 01:02 16168 Sep 26 02:50 16168 Sep 28 19:36	5° M46'33 27° M25'47 0° Ω 4° Ω28'32 23° Ω58'42 27° Ω19'27 26° Ω43'48 21° Ω28'37 21° Ω23'50 18° Ω33'01	1°56'47 18°03'27 1°09'16 1°08'50
evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist.	16167 Sep 11 12:16 16167 Sep 20 06:42 16167 Sep 28 00:48 16167 Oct 04 20:25 16167 Oct 13 23:58 16167 Oct 14 02:52 16167 Oct 14 02:48 16167 Oct 14 02:48 16167 Oct 14 06:05 16167 Oct 17 06:44	0°M. 10°M.37'48 14°M.08'09 13°M.44'27 8°M.54'33 8°M.47'46 8°M.47'55 8°M.47'55	-0°02'18 0°01'52 0°01'52	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node	16168 Aug 11 06:19 16168 Aug 24 05:40 16168 Aug 25 17:50 16168 Aug 28 08:56 16168 Sep 10 15:28 16168 Sep 17 01:16 16168 Sep 19 16:41 16168 Sep 26 01:02 16168 Sep 26 02:50 16168 Sep 28 19:36 16168 Sep 29 21:19 16168 Oct 02 10:41	5° M46'33 27° M25'47 0° Ω 4° Ω28'32 23° Ω58'42 27° Ω19'27 26° Ω43'48 21° Ω28'37 21° Ω23'50 18° Ω33'01 17° Ω29'35 15° Ω19'21	1°56'47 18°03'27 1°09'16 1°08'50
evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise	16167 Sep 11 12:16 16167 Sep 20 06:42 16167 Sep 28 00:48 16167 Oct 04 20:25 16167 Oct 13 23:58 16167 Oct 14 02:52 16167 Oct 14 02:48 16167 Oct 14 02:48 16167 Oct 14 06:05 16167 Oct 17 06:44 16167 Oct 17 06:44 16167 Oct 20 22:56	0°M. 10°M37'48 14°M08'09 13°M44'27 8°M54'33 8°M47'46 8°M47'55 8°M47'55 8°M47'55 8°M47'54 3°M00'19	-0°02'18 0°01'52 0°01'52	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct	16168 Aug 11 06:19 16168 Aug 24 05:40 16168 Aug 25 17:50 16168 Aug 28 08:56 16168 Sep 10 15:28 16168 Sep 17 01:16 16168 Sep 19 16:41 16168 Sep 26 01:02 16168 Sep 26 02:50 16168 Sep 28 19:36 16168 Sep 29 21:19 16168 Oct 02 10:41 16168 Oct 09 02:59	5° M46'33 27° M25'47 0° \(\Omega\) 4° \(\Omega\) 28'32 23° \(\Omega\) 58'42 27° \(\Omega\) 19'27 26° \(\Omega\) 43'48 21° \(\Omega\) 23'50 18° \(\Omega\) 33'01 17° \(\Omega\) 29'35 15° \(\Omega\) 19'21 12° \(\Omega\) 53'05	1°56'47 18°03'27 1°09'16 1°08'50 0.62731 AU
evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct	16167 Sep 11 12:16 16167 Sep 20 06:42 16167 Sep 28 00:48 16167 Oct 04 20:25 16167 Oct 13 23:58 16167 Oct 14 02:52 16167 Oct 14 02:48 16167 Oct 14 02:48 16167 Oct 14 06:05 16167 Oct 17 06:44 16167 Oct 20 22:56 16167 Oct 27 14:19	0°M. 10°M37'48 14°M08'09 13°M44'27 8°M54'33 8°M47'46 8°M47'55 8°M47'55 8°M55'34 8°M40'14 5°M51'45 3°M00'19 0°M51'40	-0°02'18 0°01'52 0°01'52 0.60454 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise	16168 Aug 11 06:19 16168 Aug 24 05:40 16168 Aug 25 17:50 16168 Aug 28 08:56 16168 Sep 10 15:28 16168 Sep 17 01:16 16168 Sep 26 01:02 16168 Sep 26 02:50 16168 Sep 29 21:19 16168 Oct 02 10:41 16168 Oct 09 02:59 16168 Oct 23 03:29	5° M46'33 27° M25'47 0° \(\Omega\) 4° \(\Omega\) 28'32 23° \(\Omega\) 58'42 27° \(\Omega\) 19'27 26° \(\Omega\) 43'48 21° \(\Omega\) 23'50 18° \(\Omega\) 33'01 17° \(\Omega\) 29'35 15° \(\Omega\) 19'21 12° \(\Omega\) 53'05 20° \(\Omega\) 50'52	1°56'47 18°03'27 1°09'16 1°08'50 0.62731 AU
evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise	16167 Sep 11 12:16 16167 Sep 20 06:42 16167 Sep 28 00:48 16167 Oct 04 20:25 16167 Oct 13 23:58 16167 Oct 14 02:52 16167 Oct 14 02:48 16167 Oct 14 02:48 16167 Oct 14 06:05 16167 Oct 17 06:44 16167 Oct 20 22:56 16167 Oct 27 14:19 16167 Nov 10 20:01	0°M. 10°M.37'48 14°M.08'09 13°M.44'27 8°M.54'33 8°M.47'46 8°M.47'55 8°M.47'55 8°M.55'34 8°M.40'14 5°M.51'45 3°M.00'19 0°M.51'40 8°M.42'09	-0°02'18 0°01'52 0°01'52 0.60454 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	16168 Aug 11 06:19 16168 Aug 24 05:40 16168 Aug 25 17:50 16168 Aug 28 08:56 16168 Sep 10 15:28 16168 Sep 17 01:16 16168 Sep 26 01:02 16168 Sep 26 02:50 16168 Sep 28 19:36 16168 Sep 29 21:19 16168 Oct 02 10:41 16168 Oct 09 02:59 16168 Oct 23 03:29 16168 Oct 31 02:06	5° M46'33 27° M25'47 0° \(\Omega\) 4° \(\Omega\) 28'32 23° \(\Omega\) 58'42 27° \(\Omega\) 19'27 26° \(\Omega\) 43'48 21° \(\Omega\) 23'50 18° \(\Omega\) 33'01 17° \(\Omega\) 29'35 15° \(\Omega\) 19'21 12° \(\Omega\) 50'52 0° \(\Omega\) 50'52 0° \(\Omega\)	1°56'47 18°03'27 1°09'16 1°08'50 0.62731 AU
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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	16167 Sep 11 12:16 16167 Sep 20 06:42 16167 Sep 28 00:48 16167 Oct 04 20:25 16167 Oct 07 03:32 16167 Oct 13 23:58 16167 Oct 14 02:48 16167 Oct 14 02:48 16167 Oct 13 23:31 16167 Oct 14 06:05 16167 Oct 17 06:44 16167 Oct 20 22:56 16167 Oct 27 14:19 16167 Nov 10 20:01 16167 Nov 27 04:41 16167 Dec 08 12:55 16167 Dec 13 13:41	0°M. 10°M.37'48 14°M.08'09 13°M.44'27 8°M.54'33 8°M.47'46 8°M.47'55 8°M.55'34 8°M.40'14 5°M.51'45 3°M.00'19 0°M.51'40 8°M.42'09 0° ₹ 19° ₹ 57'49 0° ₹08'28	-0°02'18 0°01'52 0°01'52 0.60454 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	16168 Aug 11 06:19 16168 Aug 24 05:40 16168 Aug 25 17:50 16168 Aug 28 08:56 16168 Sep 10 15:28 16168 Sep 17 01:16 16168 Sep 19 16:41 16168 Sep 26 01:02 16168 Sep 26 02:50 16168 Sep 28 19:36 16168 Sep 29 21:19 16168 Oct 02 10:41 16168 Oct 02 10:41 16168 Oct 03 03:29 16168 Oct 31 02:06 16168 Nov 19 06:25 16168 Nov 24 09:53 16168 Nov 26 11:17	5° M46'33 27° M25'47 0° \(\oldsymbol{\Omega}\) 4° \(\oldsymbol{\Omega}\) 4° \(\oldsymbol{\Omega}\) 23° \(\oldsymbol{\Omega}\) 58' \(\oldsymbol{\Omega}\) 21° \(\oldsymbol{\Omega}\) 21° \(\oldsymbol{\Omega}\) 23' \(\oldsymbol{\Omega}\) 17° \(\oldsymbol{\Omega}\) 29' \(\oldsymbol{\Omega}\) 10° \(\oldsymbol{\Omega}\) 0° \(\oldsymbol{\Omega}\) 9° \(\oldsymbol{\P}\) 47' 48 13° \(\oldsymbol{\P}\) 55' 55' 51	1°56'47 18°03'27 1°09'16 1°08'50 0.62731 AU 27°54'23
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	16167 Sep 11 12:16 16167 Sep 20 06:42 16167 Sep 28 00:48 16167 Oct 04 20:25 16167 Oct 07 03:32 16167 Oct 13 23:58 16167 Oct 14 02:52 16167 Oct 14 02:48 16167 Oct 14 02:48 16167 Oct 13 23:31 16167 Oct 14 06:05 16167 Oct 17 06:44 16167 Oct 20 22:56 16167 Oct 27 14:19 16167 Nov 10 20:01 16167 Nov 10 20:01 16167 Dec 08 12:55 16167 Dec 13 13:41 16167 Dec 13 13:41	0°M. 10°M.37'48 14°M.08'09 13°M.44'27 8°M.54'33 8°M.47'46 8°M.47'55 8°M.55'34 8°M.40'14 5°M.51'45 3°M.00'19 0°M.51'40 8°M.42'09 0° ✓ 19° 19°	-0°02'18 0°01'52 0°01'52 0.60454 AU 27°54'30	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	16168 Aug 11 06:19 16168 Aug 24 05:40 16168 Aug 25 17:50 16168 Aug 28 08:56 16168 Sep 10 15:28 16168 Sep 17 01:16 16168 Sep 26 01:02 16168 Sep 26 02:50 16168 Sep 28 19:36 16168 Sep 29 21:19 16168 Oct 02 10:41 16168 Oct 09 02:59 16168 Oct 23 03:29 16168 Oct 31 02:06 16168 Nov 19 06:25 16168 Nov 24 09:53	5° \(\mathbb{n}\)46'33 27° \(\mathbb{n}\)25'47 0° \(\mathbb{n}\) 4° \(\mathbb{n}\)28'32 23° \(\mathbb{n}\)58'42 27° \(\mathbb{n}\)19'27 26° \(\mathbb{n}\)43'48 21° \(\mathbb{n}\)23'50 18° \(\mathbb{n}\)33'01 17° \(\mathbb{n}\)29'35 15° \(\mathbb{n}\)19'21 12° \(\mathbb{n}\)50'52 0° \(\mathbb{n}\) 0° \(\mathbb{n}\) 9° \(\mathbb{n}\)47'48	1°56'47 18°03'27 1°09'16 1°08'50 0.62731 AU
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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 max. Earth dist. superior conj minimum elong evening rise	16167 Sep 11 12:16 16167 Sep 20 06:42 16167 Sep 28 00:48 16167 Oct 04 20:25 16167 Oct 07 03:32 16167 Oct 13 23:58 16167 Oct 14 02:52 16167 Oct 14 02:48 16167 Oct 13 23:31 16167 Oct 14 06:05 16167 Oct 17 06:44 16167 Oct 20 22:56 16167 Oct 27 14:19 16167 Nov 10 20:01 16167 Nov 27 04:41 16167 Dec 08 12:55 16167 Dec 13 13:41 16167 Dec 13 13:41 16167 Dec 13 12:04 16167 Dec 20 16:34 16167 Dec 20 16:34 16167 Dec 27 09:07 16167 Dec 27 03:56 16168 Jan 09 22:46	0°M. 10°M37'48 14°M08'09 13°M44'27 8°M54'33 8°M47'46 8°M47'55 8°M55'34 8°M40'14 5°M51'45 3°M00'19 0°M51'40 8°M42'09 0° 19° 3'57'49 0° 308'28 0° 13° 30'49 0°≈28'06 0°≈ 26°≈26'55	-0°02'18 0°01'52 0°01'52 0.60454 AU 27°54'30 1.31117 AU 1°31'02	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	16168 Aug 11 06:19 16168 Aug 24 05:40 16168 Aug 25 17:50 16168 Aug 28 08:56 16168 Sep 10 15:28 16168 Sep 17 01:16 16168 Sep 19 16:41 16168 Sep 26 01:02 16168 Sep 26 02:50 16168 Sep 28 19:36 16168 Sep 29 21:19 16168 Oct 02 10:41 16168 Oct 09 02:59 16168 Oct 23 03:29 16168 Oct 31 02:06 16168 Nov 19 06:25 16168 Nov 24 09:53 16168 Nov 26 11:17 16168 Dec 01 15:21 16168 Dec 04 01:15 16168 Dec 04 00:35 16168 Dec 04 00:35 16168 Dec 10 19:37 16168 Dec 18 04:44 16168 Dec 26 19:39	5° M46'33 27° M25'47 0° \(\oldsymbol{\Omega}\) 4° \(\oldsymbol{\Omega}\) 4° \(\oldsymbol{\Omega}\) 23° \(\oldsymbol{\Omega}\) 23° \(\oldsymbol{\Omega}\) 23° \(\oldsymbol{\Omega}\) 21° \(\oldsymbol{\Omega}\) 23' \(\oldsymbol{\Omega}\) 33' \(\oldsymbol{\Omega}\) 33' \(\oldsymbol{\Omega}\) 30' \(\oldsymbol{\Omega}\) 30' \(\oldsymbol{\Omega}\) 30' \(\oldsymbol{\Omega}\) 31' \(\oldsymbol{\Omega}\) 32' \(\oldsymbol{\Omega}\) 31' \(\oldsymbol{\Omega}\) 32' \(\oldsymbol{\Omega}\) 33' \(\oldsymbol{\Omega}\) 32' \(\oldsymbol{\Omega}\) 33' \(\oldsymbol{\Omega}\) 33' \(\olds	1°56'47 18°03'27 1°09'16 1°08'50 0.62731 AU 27°54'23 1.31791 AU 1°18'41 1°19'08
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 max. Earth dist. superior conj minimum elong evening rise desc. node	16167 Sep 11 12:16 16167 Sep 20 06:42 16167 Sep 28 00:48 16167 Oct 04 20:25 16167 Oct 07 03:32 16167 Oct 13 23:58 16167 Oct 14 02:52 16167 Oct 14 02:48 16167 Oct 14 02:48 16167 Oct 14 06:05 16167 Oct 17 06:44 16167 Oct 20 22:56 16167 Oct 27 14:19 16167 Nov 10 20:01 16167 Nov 27 04:41 16167 Dec 08 12:55 16167 Dec 13 13:41 16167 Dec 13 13:41 16167 Dec 13 12:04 16167 Dec 20 16:34 16167 Dec 20 16:34 16167 Dec 27 09:07 16167 Dec 27 03:56 16168 Jan 09 22:46 16168 Jan 12 04:49	0°M. 10°M.37'48 14°M.08'09 13°M.44'27 8°M.54'33 8°M.47'46 8°M.47'55 8°M.55'34 8°M.40'14 5°M.51'45 3°M.00'19 0°M.51'40 8°M.42'09 0° 7 19° 757'49 0° 808'28 0° 13° 30'49 0° 26' 28'06 0° 26° 26° 26° 26'\$ 26'55 0° 10° M.37'48	-0°02'18 0°01'52 0°01'52 0.60454 AU 27°54'30 1.31117 AU 1°31'02 1°31'38	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 asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node	16168 Aug 11 06:19 16168 Aug 24 05:40 16168 Aug 25 17:50 16168 Aug 28 08:56 16168 Sep 10 15:28 16168 Sep 17 01:16 16168 Sep 19 16:41 16168 Sep 26 01:02 16168 Sep 26 02:50 16168 Sep 28 19:36 16168 Sep 29 21:19 16168 Oct 02 10:41 16168 Oct 02 10:41 16168 Oct 03 03:29 16168 Oct 31 02:06 16168 Nov 19 06:25 16168 Nov 24 09:53 16168 Nov 26 11:17 16168 Dec 01 15:21 16168 Dec 04 01:15 16168 Dec 04 01:15 16168 Dec 04 00:35 16168 Dec 10 19:37 16168 Dec 18 04:44 16168 Dec 26 19:39 16169 Jan 04 10:45	5° M46'33 27° M25'47 0° \(\oldsymbol{\Omega} \) 4° \(\oldsymbol{\Omega} \) 4° \(\oldsymbol{\Omega} \) 23° \(\oldsymbol{\Omega} \) 23° \(\oldsymbol{\Omega} \) 23° \(\oldsymbol{\Omega} \) 21° \(\oldsymbol{\Omega} \) 23' \(\oldsymbol{\Omega} \) 30' \(\oldsymbol{\Omega} \) 30' \(\oldsymbol{\Omega} \) 30' \(\oldsymbol{\Omega} \) 30' \(\oldsymbol{\Omega} \) 31' \(\oldsymbol{\Omega} \) 32' \(\oldsymbol{\Omega} \	1°56'47 18°03'27 1°09'16 1°08'50 0.62731 AU 27°54'23 1.31791 AU 1°18'41 1°19'08
evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node evening max el	16167 Sep 11 12:16 16167 Sep 20 06:42 16167 Sep 28 00:48 16167 Oct 04 20:25 16167 Oct 07 03:32 16167 Oct 13 23:58 16167 Oct 14 02:52 16167 Oct 14 02:48 16167 Oct 14 02:48 16167 Oct 14 06:05 16167 Oct 17 06:44 16167 Oct 20 22:56 16167 Oct 27 14:19 16167 Nov 10 20:01 16167 Nov 10 20:01 16167 Dec 13 13:41 16167 Dec 13 13:41 16167 Dec 13 12:04 16167 Dec 20 16:34 16167 Dec 20 16:34 16167 Dec 20 15:04 16167 Dec 27 09:07 16168 Jan 09 22:46 16168 Jan 12 04:49 16168 Jan 23 23:04	0°M. 10°M37'48 14°M08'09 13°M44'27 8°M54'33 8°M47'46 8°M47'55 8°M55'34 8°M40'14 5°M51'45 3°M00'19 0°M51'40 8°M42'09 0°ズ 19°ズ57'49 0°G08'28 0°G 13°G04'36 15°G30'49 0°≈28'06 0°≈ 26°≈26'55 0°兴 14° ¥40'03	-0°02'18 0°01'52 0°01'52 0.60454 AU 27°54'30 1.31117 AU 1°31'02 1°31'38	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node evening max el	16168 Aug 11 06:19 16168 Aug 24 05:40 16168 Aug 25 17:50 16168 Aug 28 08:56 16168 Sep 10 15:28 16168 Sep 17 01:16 16168 Sep 19 16:41 16168 Sep 26 01:02 16168 Sep 26 02:50 16168 Sep 28 19:36 16168 Sep 29 21:19 16168 Oct 02 10:41 16168 Oct 02 10:41 16168 Oct 03 102:06 16168 Nov 19 06:25 16168 Nov 24 09:53 16168 Nov 26 11:17 16168 Dec 01 15:21 16168 Dec 04 01:15 16168 Dec 04 01:15 16168 Dec 04 00:35 16168 Dec 18 04:44 16168 Dec 18 04:44 16168 Dec 26 19:39 16169 Jan 04 10:45 16169 Jan 04 10:45	5° \$\mathbf{n}46'33\) 27° \$\mathbf{n}25'47\) 0° \$\mathbf{n}\$ 4° \$\mathbf{n}28'32\) 23° \$\mathbf{n}58'42\) 27° \$\mathbf{n}19'27\) 26° \$\mathbf{n}43'48\) 21° \$\mathbf{n}23'50\) 18° \$\mathbf{n}33'01\) 17° \$\mathbf{n}29'35\) 15° \$\mathbf{n}19'21\) 12° \$\mathbf{n}50'52\) 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 9° \$\mathbf{n}47'48\) 13° \$\mathbf{n}55'55\) 24° \$\mathbf{n}48'00\) 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 14° \$\mathbf{n}55'33\) 0° \$\mathbf{n}\$ 14° \$\mathbf{n}25'32\) 24° \$\mathbf{n}53'42\) 0° \$\mathbf{n}\$	1°56'47 18°03'27 1°09'16 1°08'50 0.62731 AU 27°54'23 1.31791 AU 1°18'41 1°19'08
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 max. Earth dist. superior conj minimum elong evening rise desc. node evening max el retrograde	16167 Sep 11 12:16 16167 Sep 20 06:42 16167 Sep 28 00:48 16167 Oct 04 20:25 16167 Oct 07 03:32 16167 Oct 13 23:58 16167 Oct 14 02:52 16167 Oct 14 02:48 16167 Oct 14 02:48 16167 Oct 13 23:31 16167 Oct 14 06:05 16167 Oct 17 06:44 16167 Oct 20 22:56 16167 Oct 27 14:19 16167 Nov 10 20:01 16167 Nov 10 20:01 16167 Dec 13 13:41 16167 Dec 13 13:41 16167 Dec 13 12:04 16167 Dec 20 16:34 16167 Dec 20 16:34 16167 Dec 20 15:04 16167 Dec 27 09:07 16167 Dec 27 03:56 16168 Jan 09 22:46 16168 Jan 12 04:49 16168 Jan 23 23:04 16168 Feb 06 21:25	0°M. 10°M.37'48 14°M.08'09 13°M.44'27 8°M.54'33 8°M.47'46 8°M.47'55 8°M.47'55 8°M.55'34 8°M.40'14 5°M.51'45 3°M.00'19 0°M.51'40 8°M.42'09 0°ズ 19°ズ57'49 0°♂08'28 0°♂ 13°♂04'36 15°♂30'49 0°≈28'06 0°≈ 26°≈26'55 0°升 14°升40'03 21°升41'35	-0°02'18 0°01'52 0°01'52 0.60454 AU 27°54'30 1.31117 AU 1°31'02 1°31'38	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 asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node evening max el	16168 Aug 11 06:19 16168 Aug 24 05:40 16168 Aug 25 17:50 16168 Aug 28 08:56 16168 Sep 10 15:28 16168 Sep 17 01:16 16168 Sep 19 16:41 16168 Sep 26 01:02 16168 Sep 26 02:50 16168 Sep 28 19:36 16168 Sep 29 21:19 16168 Oct 02 10:41 16168 Oct 02 10:41 16168 Oct 03 102:06 16168 Nov 19 06:25 16168 Nov 24 09:53 16168 Nov 24 09:53 16168 Dec 01 15:21 16168 Dec 04 01:15 16168 Dec 04 00:35 16168 Dec 04 00:35 16168 Dec 10 19:37 16168 Dec 10 19:37 16168 Dec 26 19:39 16169 Jan 04 10:45 16169 Jan 11 10:24 16169 Jan 18 00:29	5° \$\mathbf{n}46'33 27° \$\mathbf{n}25'47 0° \mathbf{n} 4° \mathbf{n}28'32 23° \mathbf{n}58'42 27° \mathbf{n}19'27 26° \mathbf{n}43'48 21° \mathbf{n}23'50 18° \mathbf{n}33'01 17° \mathbf{n}223'50 18° \mathbf{n}33'01 17° \mathbf{n}223'50 20° \mathbf{n}50'52 0° \mathbf{m} 0° \mathbf{n} 0° \mathbf{n} 9° \mathbf{n}47'48 13° \mathbf{n}55'551 24° \mathbf{n}48'00 0° \mathbf{n}03'36 29° \mathbf{n}55'33 0° \mathbf{n} 14° \mathbf{n}55'33 0° \mathbf{n} 14° \mathbf{n}25'32 24° \mathbf{m}53'42 0° \mathbf{m} 1° \mathbf{n}38'12	1°56'47 18°03'27 1°09'16 1°08'50 0.62731 AU 27°54'23 1.31791 AU 1°18'41 1°19'08

min. Earth dist.	16169 Jan 28 22:24	27° ≈ 48′11	0.55472 AU	evening set	16170 Jan 02 08:26	10° ≈ 37'54	
inferior conj	16169 Jan 30 22:29	26° ≈ 35'44	-5°29'20	min. Earth dist.	16170 Jan 10 04:18	7° ≈ 05'22	0.54521 AU
minimum elong	16169 Jan 31 06:29	26° ≈ 23'41	5°27'27	inferior conj	16170 Jan 10 18:37	6° ≈ 45′16	
morning rise	16169 Feb 08 14:50	22° ≈ 37'35		minimum elong	16170 Jan 10 18:59	6° ≈ 44'46	6°01'25
direct	16169 Feb 11 00:04	22° ≈ 22'56		morning rise	16170 Jan 19 06:36	2° ≈ 57'43	
asc. node	16169 Feb 20 08:11	26° ≈ 26′17		direct	16170 Jan 22 11:53	2° ≈ 34'23	
morning max el	16169 Feb 21 10:12	27° ≈ 26′15	19°59'19	morning max el	16170 Feb 03 11:46	8° ≈ 21'52	21°27'35
	16169 Feb 23 19:15	0° ∀		asc. node	16170 Feb 07 05:31	12° ≈ 28'47	
morning set	16169 Mar 11 06:39	26° ∺ 26′04			16170 Feb 18 03:48	0° ∀	
	16169 Mar 13 00:36	0° Y		morning set	16170 Feb 23 16:02	11° 米 07'56	
superior conj	16169 Mar 19 01:49		0°47'51	superior conj	16170 Mar 02 21:50	26° ∺ 22'43	1°09'54
minimum elong	16169 Mar 19 04:11	12° Y 28′10	0°47'23	minimum elong	16170 Mar 03 00:20	26°) 35′42	1°09'40
desc. node	16169 Mar 24 20:43	23° Y ′29′21			16170 Mar 04 15:55	0° Y	
max. Earth dist.	16169 Mar 25 01:11	23° Y 50′16	1.37017 AU	max. Earth dist.	16170 Mar 07 11:41	5° Y 42'11	1.34929 AU
	16169 Mar 28 09:37	0° 8		evening rise	16170 Mar 11 13:56	13° Ƴ 38'36	
evening rise	16169 Mar 28 18:25	0° 8 39'33		desc. node	16170 Mar 11 17:23	13° Y 54'52	
	16169 Apr 15 22:21	Π $\circ 0$			16170 Mar 20 18:49	9° 8	
evening max el	16169 May 03 05:47	21° Ⅱ 37'31	25°32'42		16170 Apr 10 18:36	Π° 0	
retrograde	16169 May 15 13:55	28° Ⅱ 45'35		evening max el	16170 Apr 15 19:25	5° Ⅱ 24'24	26°36'24
asc. node	16169 May 19 05:39	27° Ⅱ 51′05		retrograde	16170 Apr 28 21:55	12° Ⅱ 50′39	
evening set	16169 May 21 13:22	26° Ⅱ 16'17		evening set	16170 May 05 07:04	10° Ⅱ 17'52	
min. Earth dist.	16169 May 25 19:48	21° Ⅱ 36′05	0.67870 AU	asc. node	16170 May 06 02:51	9° Ⅱ 35′25	
inferior conj	16169 May 27 06:08	19° Ⅱ 45'45	2°12'23	min. Earth dist.	16170 May 09 07:30	6° Ⅱ 12'47	0.66546 AU
minimum elong	16169 May 27 03:58	19° Ⅱ 52'45	2°11'06	inferior conj	16170 May 11 06:56	3° Ⅱ 50'46	1°31'13
morning rise	16169 Jun 01 19:02	13° Ⅱ 54'44		minimum elong	16170 May 11 04:56	3° Ⅱ 56'45	1°29'57
direct	16169 Jun 05 06:51	12° Ⅱ 44'49			16170 May 14 18:46	30° ₹ 8	
morning max el	16169 Jun 12 03:04	16° Ⅲ 27'11	19°01'34	morning rise	16170 May 17 03:57	28° 8 11'32	
desc. node	16169 Jun 20 21:08	27° II 26'13		direct	16170 May 20 05:27	27° 8 19'16	
	16169 Jun 22 15:32	0°ಅ			16170 May 25 21:14	Π°	
greatest brilliancy	16169 Jun 25 05:05	3°548'40	-0.7m	morning max el	16170 May 26 15:14	0° Ⅱ 41'40	18°19'18
morning set	16169 Jul 05 11:14	19° © 30'25		desc. node	16170 Jun 07 18:09	17° Ⅱ 10′29	
	16169 Jul 12 05:55	$0^{\circ}\Omega$		morning set	16170 Jun 15 14:33	29° Ⅱ 35'25	
max. Earth dist.	16169 Jul 19 07:06	10° Ω 58'37	1.45690 AU	C	16170 Jun 15 20:44	0° ©	
superior conj	16169 Jul 21 17:35	14° Ω 47'52	-2°13'08	superior conj	16170 Jul 01 02:41	24° © 00'17	-2°09'51
minimum elong	16169 Jul 21 20:20	14° Ω 58'41	2°13'39	minimum elong	16170 Jun 30 21:42	23° © 40'52	2°10'21
minimum elong	16169 Jul 21 20:20 16169 Jul 31 07:21	14° Ω 58'41 0° m	2°13'39	minimum elong max. Earth dist.			2°10'21 1.46008 AU
evening rise			2°13'39	C	16170 Jun 30 21:42		
	16169 Jul 31 07:21 16169 Aug 05 16:58	0° m	2°13'39	C	16170 Jun 30 21:42 16170 Jul 02 03:17	25° © 36'11	
evening rise	16169 Jul 31 07:21	0° т у 8° т у 43'24	2°13'39	max. Earth dist.	16170 Jun 30 21:42 16170 Jul 02 03:17 16170 Jul 04 23:02	25°\$36'11 0°Ω	
evening rise	16169 Jul 31 07:21 16169 Aug 05 16:58 16169 Aug 15 05:39 16169 Aug 19 03:35	0° My 8° My 43'24 24° My 04'20		max. Earth dist.	16170 Jun 30 21:42 16170 Jul 02 03:17 16170 Jul 04 23:02 16170 Jul 17 03:08	25°€36'11 0°Ω 18°Ω58'01	
evening rise asc. node	16169 Jul 31 07:21 16169 Aug 05 16:58 16169 Aug 15 05:39	0° m/ 8° m/43'24 24° m/04'20 0° <u>∩</u>		max. Earth dist.	16170 Jun 30 21:42 16170 Jul 02 03:17 16170 Jul 04 23:02 16170 Jul 17 03:08 16170 Jul 24 05:08 16170 Jul 27 03:07	25°\$36'11 0°\$A 18°\$\Omega\$58'01 0°\$\textbf{m}\$	1.46008 AU
evening rise asc. node evening max el	16169 Jul 31 07:21 16169 Aug 05 16:58 16169 Aug 15 05:39 16169 Aug 19 03:35 16169 Aug 25 05:55 16169 Aug 31 15:26	0° M) 8° M) 43'24 24° M) 04'20 0° Ω 7° Ω37'47		max. Earth dist. evening rise greatest brilliancy	16170 Jun 30 21:42 16170 Jul 02 03:17 16170 Jul 04 23:02 16170 Jul 17 03:08 16170 Jul 24 05:08 16170 Jul 27 03:07 16170 Aug 02 02:24	25°\$36'11 0°\$\Omega\$ 18°\$\Omega\$58'01 0°\$\pm\$ 4°\$\Dm\$29'09 13°\$\Dm\$17'56	1.46008 AU
evening rise asc. node evening max el retrograde	16169 Jul 31 07:21 16169 Aug 05 16:58 16169 Aug 15 05:39 16169 Aug 19 03:35 16169 Aug 25 05:55	0° My 8° My 43'24 24° My 04'20 0° Ω 7° Ω 37'47 11° Ω 02'23 10° Ω 12'04		max. Earth dist. evening rise greatest brilliancy asc. node	16170 Jun 30 21:42 16170 Jul 02 03:17 16170 Jul 04 23:02 16170 Jul 17 03:08 16170 Jul 24 05:08 16170 Jul 27 03:07 16170 Aug 02 02:24 16170 Aug 08 17:14	25°\$36'11 0°\$\Omega\$ 18°\$\Omega\$58'01 0°\$\pm\$ 4°\$\Dm\$29'09 13°\$\Dm\$17'56	1.46008 AU -0.8m
evening rise asc. node evening max el retrograde evening set	16169 Jul 31 07:21 16169 Aug 05 16:58 16169 Aug 15 05:39 16169 Aug 19 03:35 16169 Aug 25 05:55 16169 Aug 31 15:26 16169 Sep 03 15:43 16169 Sep 09 12:28	0° My 8° My 43'24 24° My 04'20 0° Ω 7° Ω 37'47 11° Ω 02'23 10° Ω 12'04	18°21'12 2°01'44	max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde	16170 Jun 30 21:42 16170 Jul 02 03:17 16170 Jul 04 23:02 16170 Jul 17 03:08 16170 Jul 24 05:08 16170 Jul 27 03:07 16170 Aug 02 02:24 16170 Aug 08 17:14 16170 Aug 15 11:09	25°\$36'11 0°\$\Omega\$ 18°\$\Omega\$58'01 0°\$\mathrm{m}\$ 4°\$\mathrm{m}\$29'09 13°\$\mathrm{m}\$17'56 21°\$\mathrm{m}\$26'47	1.46008 AU -0.8m
evening rise asc. node evening max el retrograde evening set inferior conj	16169 Jul 31 07:21 16169 Aug 05 16:58 16169 Aug 15 05:39 16169 Aug 19 03:35 16169 Aug 25 05:55 16169 Aug 31 15:26 16169 Sep 03 15:43	0° m/8° m/43'24 24° m/04'20 0° Ω 7° Ω 37'47 11° Ω 02'23 10° Ω 12'04 4° Ω 40'48	18°21'12 2°01'44	max. Earth dist. evening rise greatest brilliancy asc. node evening max el	16170 Jun 30 21:42 16170 Jul 02 03:17 16170 Jul 04 23:02 16170 Jul 17 03:08 16170 Jul 24 05:08 16170 Jul 27 03:07 16170 Aug 02 02:24 16170 Aug 08 17:14	25°\$36'11 0°\$\Omega\$ 18°\$\Omega\$58'01 0°\$\Omega\$ 4°\$\Omega\$29'09 13°\$\Omega\$17'56 21°\$\Omega\$26'47 25°\$\Omega\$08'12	1.46008 AU -0.8m
evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	16169 Jul 31 07:21 16169 Aug 05 16:58 16169 Aug 15 05:39 16169 Aug 19 03:35 16169 Aug 25 05:55 16169 Aug 31 15:26 16169 Sep 03 15:43 16169 Sep 09 12:28 16169 Sep 09 14:48 16169 Sep 11 18:17	0° My 8° My 43'24 24° My 04'20 0° Ω 7° Ω 37'47 11° Ω 02'23 10° Ω 12'04 4° Ω 40'48 4° Ω 33'57	18°21'12 2°01'44 2°01'04	max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set	16170 Jun 30 21:42 16170 Jul 02 03:17 16170 Jul 04 23:02 16170 Jul 17 03:08 16170 Jul 24 05:08 16170 Jul 27 03:07 16170 Aug 02 02:24 16170 Aug 08 17:14 16170 Aug 18 10:09 16170 Aug 18 20:53 16170 Aug 24 09:30	25°\$36'11 0°\$\mathcal{O}\$ 18°\$\mathcal{Q}\$58'01 0°\$\mathcal{W}\$ 4°\$\mathcal{W}\$29'09 13°\$\mathcal{W}\$17'56 21°\$\mathcal{W}\$26'47 25°\$\mathcal{W}\$08'12 24°\$\mathcal{W}\$01'16 18°\$\mathcal{W}\$16'06	1.46008 AU -0.8m 18°56'14
evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	16169 Jul 31 07:21 16169 Aug 05 16:58 16169 Aug 15 05:39 16169 Aug 19 03:35 16169 Aug 25 05:55 16169 Aug 31 15:26 16169 Sep 03 15:43 16169 Sep 09 12:28 16169 Sep 09 14:48	0° My 8° My 43'24 24° My 04'20 0° Ω 7° Ω 37'47 11° Ω 02'23 10° Ω 12'04 4° Ω 40'48 4° Ω 33'57 2° Ω 03'05	18°21'12 2°01'44 2°01'04	max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj	16170 Jun 30 21:42 16170 Jul 02 03:17 16170 Jul 04 23:02 16170 Jul 17 03:08 16170 Jul 24 05:08 16170 Jul 27 03:07 16170 Aug 02 02:24 16170 Aug 08 17:14 16170 Aug 15 11:09 16170 Aug 18 20:53	25°\$36'11 0°\$\Omega\$ 18°\$\Omega\$58'01 0°\$\Omega\$ 4°\$\Omega\$29'09 13°\$\Omega\$17'56 21°\$\Omega\$26'47 25°\$\Omega\$08'12 24°\$\Omega\$01'16	1.46008 AU -0.8m 18°56'14 2°37'25
evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	16169 Jul 31 07:21 16169 Aug 05 16:58 16169 Aug 15 05:39 16169 Aug 19 03:35 16169 Aug 25 05:55 16169 Aug 31 15:26 16169 Sep 03 15:43 16169 Sep 09 12:28 16169 Sep 09 14:48 16169 Sep 11 18:17 16169 Sep 13 15:55	0° My 8° My 43'24 24° My 04'20 0° Ω 7° Ω 37'47 11° Ω 02'23 10° Ω 12'04 4° Ω 40'48 4° Ω 33'57 2° Ω 03'05 30° R My	18°21'12 2°01'44 2°01'04	max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	16170 Jun 30 21:42 16170 Jul 02 03:17 16170 Jul 04 23:02 16170 Jul 17 03:08 16170 Jul 24 05:08 16170 Jul 27 03:07 16170 Aug 02 02:24 16170 Aug 08 17:14 16170 Aug 15 11:09 16170 Aug 18 20:53 16170 Aug 24 09:30 16170 Aug 24 11:31 16170 Aug 26 01:28	25°\$36'11 0°\$\Omega\$ 18°\$\Omega\$58'01 0°\$\Omega\$ 4°\$\Omega\$29'09 13°\$\Omega\$17'56 21°\$\Omega\$26'47 25°\$\Omega\$08'12 24°\$\Omega\$01'16 18°\$\Omega\$16'06 18°\$\Omega\$99'41	1.46008 AU -0.8m 18°56'14 2°37'25 2°36'48
evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	16169 Jul 31 07:21 16169 Aug 05 16:58 16169 Aug 15 05:39 16169 Aug 19 03:35 16169 Aug 25 05:55 16169 Aug 31 15:26 16169 Sep 03 15:43 16169 Sep 09 12:28 16169 Sep 09 14:48 16169 Sep 11 18:17 16169 Sep 13 15:55 16169 Sep 15 12:24 16169 Sep 16 18:41	0° m 8° m 43'24 24° m 04'20 0° Ω 7° Ω 37'47 11° Ω 02'23 10° Ω 12'04 4° Ω 40'48 4° Ω 33'57 2° Ω 03'05 30° R m 28° m 18'58 27° m 23'45	18°21'12 2°01'44 2°01'04	max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	16170 Jun 30 21:42 16170 Jul 02 03:17 16170 Jul 04 23:02 16170 Jul 17 03:08 16170 Jul 24 05:08 16170 Jul 27 03:07 16170 Aug 02 02:24 16170 Aug 15 11:09 16170 Aug 18 20:53 16170 Aug 24 09:30 16170 Aug 24 11:31 16170 Aug 26 01:28 16170 Aug 30 01:16	25°\$36'11 0°\$\Omega\$18°\$\Omega\$58'01 0°\$\Omega\$13°\$\Omega\$17'56 21°\$\Omega\$26'47 25°\$\Omega\$08'12 24°\$\Omega\$01'16 18°\$\Omega\$16'06 18°\$\Omega\$09'41 16°\$\Omega\$09'09 11°\$\Omega\$49'19	1.46008 AU -0.8m 18°56'14 2°37'25 2°36'48
evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	16169 Jul 31 07:21 16169 Aug 05 16:58 16169 Aug 15 05:39 16169 Aug 19 03:35 16169 Aug 25 05:55 16169 Aug 31 15:26 16169 Sep 03 15:43 16169 Sep 09 12:28 16169 Sep 09 14:48 16169 Sep 11 18:17 16169 Sep 13 15:55 16169 Sep 15 12:24 16169 Sep 16 18:41 16169 Sep 22 00:23	0° m/8° m/43'24 24° m/04'20 0° Ω 7° Ω37'47 11° Ω02'23 10° Ω 12'04 4° Ω40'48 4° Ω33'57 2° Ω03'05 30° R m/28° m/18'58 27° m/23'45 25° m/43'19	18°21'12 2°01'44 2°01'04	max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	16170 Jun 30 21:42 16170 Jul 02 03:17 16170 Jul 04 23:02 16170 Jul 17 03:08 16170 Jul 24 05:08 16170 Jul 27 03:07 16170 Aug 02 02:24 16170 Aug 15 11:09 16170 Aug 18 20:53 16170 Aug 24 09:30 16170 Aug 24 11:31 16170 Aug 26 01:28 16170 Aug 30 01:16 16170 Sep 03 16:03	25°\$36'11 0°\$\Omega\$ 18°\$\Omega\$58'01 0°\$\mathrm{m}\$ 4°\$\mathrm{m}\$29'09 13°\$\mathrm{m}\$17'56 21°\$\mathrm{m}\$26'47 25°\$\mathrm{m}\$08'12 24°\$\mathrm{m}\$01'16 18°\$\mathrm{m}\$16'06 18°\$\mathrm{m}\$09'09 11°\$\mathrm{m}\$49'19 9°\$\mathrm{m}\$22'04	1.46008 AU -0.8m 18°56'14 2°37'25 2°36'48
evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	16169 Jul 31 07:21 16169 Aug 05 16:58 16169 Aug 15 05:39 16169 Aug 19 03:35 16169 Aug 25 05:55 16169 Aug 31 15:26 16169 Sep 03 15:43 16169 Sep 09 12:28 16169 Sep 09 14:48 16169 Sep 11 18:17 16169 Sep 13 15:55 16169 Sep 15 12:24 16169 Sep 16 18:41 16169 Sep 22 00:23 16169 Oct 01 14:11	0° m 8° m/43'24 24° m/04'20 0° Ω 7° Ω37'47 11° Ω02'23 10° Ω 12'04 4° Ω40'48 4° Ω33'57 2° Ω03'05 30° R m 28° m/18'58 27° m/23'45 25° m/43'19 0° Ω	18°21'12 2°01'44 2°01'04 0.64813 AU	max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	16170 Jun 30 21:42 16170 Jul 02 03:17 16170 Jul 04 23:02 16170 Jul 17 03:08 16170 Jul 24 05:08 16170 Jul 27 03:07 16170 Aug 02 02:24 16170 Aug 15 11:09 16170 Aug 18 20:53 16170 Aug 24 09:30 16170 Aug 24 11:31 16170 Aug 26 01:28 16170 Aug 30 01:16 16170 Sep 03 16:03 16170 Sep 05 05:16	25°\$36'11 0°\$\alpha\$ 18°\$\alpha\$58'01 0°\$\text{m}\$29'09 13°\$\text{m}\$17'56 21°\$\text{m}\$26'47 25°\$\text{m}\$08'12 24°\$\text{m}\$01'16 18°\$\text{m}\$16'06 18°\$\text{m}\$09'41 16°\$\text{m}\$09'09 11°\$\text{m}\$49'19 9°\$\text{m}\$22'04 9°\$\text{m}\$12'44	1.46008 AU -0.8m -0.8m -0.8725 2°37'25 2°36'48 0.66561 AU
evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	16169 Jul 31 07:21 16169 Aug 05 16:58 16169 Aug 15 05:39 16169 Aug 19 03:35 16169 Aug 25 05:55 16169 Aug 31 15:26 16169 Sep 03 15:43 16169 Sep 09 12:28 16169 Sep 09 14:48 16169 Sep 11 18:17 16169 Sep 13 15:55 16169 Sep 15 12:24 16169 Sep 16 18:41 16169 Sep 22 00:23 16169 Oct 01 14:11 16169 Oct 05 14:20	0° m 8° m/43'24 24° m/04'20 0° Ω 7° Ω37'47 11° Ω02'23 10° Ω12'04 4° Ω40'48 4° Ω33'57 2° Ω03'05 30° R m 28° m/18'58 27° m/23'45 25° m/43'19 0° Ω 3° Ω38'13	18°21'12 2°01'44 2°01'04 0.64813 AU	max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	16170 Jun 30 21:42 16170 Jul 02 03:17 16170 Jul 04 23:02 16170 Jul 17 03:08 16170 Jul 24 05:08 16170 Jul 27 03:07 16170 Aug 02 02:24 16170 Aug 15 11:09 16170 Aug 18 20:53 16170 Aug 24 09:30 16170 Aug 24 11:31 16170 Aug 30 01:16 16170 Sep 03 16:03 16170 Sep 05 05:16 16170 Sep 18 02:00	25°\$36'11 0°\$\Omega\$ 18°\$\Omega\$58'01 0°\$\mathrm{m}\$ 4°\$\mathrm{m}\$29'09 13°\$\mathrm{m}\$17'56 21°\$\mathrm{m}\$26'47 25°\$\mathrm{m}\$08'12 24°\$\mathrm{m}\$01'16 18°\$\mathrm{m}\$16'06 18°\$\mathrm{m}\$09'09 11°\$\mathrm{m}\$49'19 9°\$\mathrm{m}\$22'04 9°\$\mathrm{m}\$12'44 16°\$\mathrm{m}\$51'08	1.46008 AU -0.8m -0.8m -0.8725 2°37'25 2°36'48 0.66561 AU
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	16169 Jul 31 07:21 16169 Aug 05 16:58 16169 Aug 15 05:39 16169 Aug 19 03:35 16169 Aug 25 05:55 16169 Aug 31 15:26 16169 Sep 03 15:43 16169 Sep 09 12:28 16169 Sep 09 14:48 16169 Sep 11 18:17 16169 Sep 13 15:55 16169 Sep 15 12:24 16169 Sep 16 18:41 16169 Sep 22 00:23 16169 Oct 01 14:11 16169 Oct 05 14:20 16169 Oct 25 12:34	0° m 8° m/43'24 24° m/04'20 0° Ω 7° Ω37'47 11° Ω02'23 10° Ω12'04 4° Ω40'48 4° Ω33'57 2° Ω03'05 30° R m 28° m/18'58 27° m/23'45 25° m/43'19 0° Ω 3° Ω38'13 0° m.	18°21'12 2°01'44 2°01'04 0.64813 AU	max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	16170 Jun 30 21:42 16170 Jul 02 03:17 16170 Jul 04 23:02 16170 Jul 17 03:08 16170 Jul 24 05:08 16170 Jul 27 03:07 16170 Aug 02 02:24 16170 Aug 15 11:09 16170 Aug 18 20:53 16170 Aug 24 09:30 16170 Aug 24 11:31 16170 Aug 30 01:16 16170 Sep 03 16:03 16170 Sep 18 02:00 16170 Sep 29 01:19	25°\$36'11 0°\$\Omega\$ 18°\$\Omega\$58'01 0°\$\mathrm{m}\$ 4°\$\mathrm{m}\$29'09 13°\$\mathrm{m}\$17'56 21°\$\mathrm{m}\$26'47 25°\$\mathrm{m}\$08'12 24°\$\mathrm{m}\$01'16 18°\$\mathrm{m}\$16'06 18°\$\mathrm{m}\$09'09 11°\$\mathrm{m}\$49'19 9°\$\mathrm{m}\$22'04 9°\$\mathrm{m}\$12'44 16°\$\mathrm{m}\$51'08 0°\$\mathrm{\textit{\textit{\textit{m}}\$51'08}} 0°\$\mathrm{\textit{\textit{m}}\$51'08} 0°\$\mathrm{\textit{\textit{m}}\$51'08}	1.46008 AU -0.8m -0.8m -0.8725 2°37'25 2°36'48 0.66561 AU
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	16169 Jul 31 07:21 16169 Aug 05 16:58 16169 Aug 15 05:39 16169 Aug 19 03:35 16169 Aug 25 05:55 16169 Aug 31 15:26 16169 Sep 03 15:43 16169 Sep 09 12:28 16169 Sep 09 14:48 16169 Sep 11 18:17 16169 Sep 13 15:55 16169 Sep 15 12:24 16169 Sep 16 18:41 16169 Sep 22 00:23 16169 Oct 01 14:11 16169 Oct 05 14:20 16169 Oct 25 12:34 16169 Nov 09 23:41	0° m 8° m43'24 24° m04'20 0° Ω 7° Ω37'47 11° Ω02'23 10° Ω12'04 4° Ω40'48 4° Ω33'57 2° Ω03'05 30° R m 28° m 18'58 27° m 23'45 25° m 43'19 0° Ω 3° Ω38'13 0° m 27° m 16'10	18°21'12 2°01'44 2°01'04 0.64813 AU	max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	16170 Jun 30 21:42 16170 Jul 02 03:17 16170 Jul 04 23:02 16170 Jul 17 03:08 16170 Jul 24 05:08 16170 Jul 27 03:07 16170 Aug 02 02:24 16170 Aug 15 11:09 16170 Aug 18 20:53 16170 Aug 24 09:30 16170 Aug 24 11:31 16170 Aug 30 01:16 16170 Aug 30 01:16 16170 Sep 03 16:03 16170 Sep 05 05:16 16170 Sep 29 01:19 16170 Oct 18 10:09	25°\$36'11 0°\$\Omega\$ 18°\$\Omega\$58'01 0°\$\mathrm{m}\$ 4°\$\mathrm{m}\$29'09 13°\$\mathrm{m}\$17'56 21°\$\mathrm{m}\$26'47 25°\$\mathrm{m}\$08'12 24°\$\mathrm{m}\$01'16 18°\$\mathrm{m}\$16'06 18°\$\mathrm{m}\$09'09 11°\$\mathrm{m}\$49'19 9°\$\mathrm{m}\$22'04 9°\$\mathrm{m}\$12'44 16°\$\mathrm{m}\$51'08 0°\$\mathrm{n}\$ 0°\$\mathrm{m}\$\$	1.46008 AU -0.8m -0.8m -0.8725 2°37'25 2°36'48 0.66561 AU
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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	16169 Jul 31 07:21 16169 Aug 05 16:58 16169 Aug 15 05:39 16169 Aug 19 03:35 16169 Aug 25 05:55 16169 Aug 31 15:26 16169 Sep 03 15:43 16169 Sep 09 12:28 16169 Sep 09 14:48 16169 Sep 11 18:17 16169 Sep 13 15:55 16169 Sep 15 12:24 16169 Sep 16 18:41 16169 Sep 22 00:23 16169 Oct 01 14:11 16169 Oct 05 14:20 16169 Oct 25 12:34 16169 Nov 09 23:41	0° m 8° m/43'24 24° m/04'20 0° Ω 7° Ω37'47 11° Ω02'23 10° Ω 12'04 4° Ω40'48 4° Ω33'57 2° Ω03'05 30° R m 28° m/18'58 27° m/23'45 25° m/43'19 0° Ω 3° Ω38'13 0° m 27° m.16'10 29° m.49'39 0° ズ	18°21'12 2°01'44 2°01'04 0.64813 AU	max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	16170 Jun 30 21:42 16170 Jul 02 03:17 16170 Jul 04 23:02 16170 Jul 17 03:08 16170 Jul 24 05:08 16170 Jul 27 03:07 16170 Aug 02 02:24 16170 Aug 15 11:09 16170 Aug 24 09:30 16170 Aug 24 09:30 16170 Aug 24 11:31 16170 Aug 26 01:28 16170 Aug 30 01:16 16170 Sep 03 16:03 16170 Sep 05 05:16 16170 Sep 18 02:00 16170 Sep 29 01:19 16170 Oct 18 10:09 16170 Oct 27 19:04	25°\$36'11 0°\$\Omega\$ 18°\$\Omega\$58'01 0°\$\mathrm{m}\$ 4°\$\mathrm{m}\$29'09 13°\$\mathrm{m}\$17'56 21°\$\mathrm{m}\$26'47 25°\$\mathrm{m}\$08'12 24°\$\mathrm{m}\$01'16 18°\$\mathrm{m}\$16'06 18°\$\mathrm{m}\$09'09 11°\$\mathrm{m}\$49'19 9°\$\mathrm{m}\$22'04 9°\$\mathrm{m}\$12'44 16°\$\mathrm{m}\$51'08 0°\$\mathrm{n}\$ 0°\$\mathrm{m}\$\$	1.46008 AU -0.8m -0.8m -0.8725 2°37'25 2°36'48 0.66561 AU
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	16169 Jul 31 07:21 16169 Aug 05 16:58 16169 Aug 15 05:39 16169 Aug 19 03:35 16169 Aug 25 05:55 16169 Aug 31 15:26 16169 Sep 03 15:43 16169 Sep 09 12:28 16169 Sep 09 14:48 16169 Sep 11 18:17 16169 Sep 13 15:55 16169 Sep 15 12:24 16169 Sep 16 18:41 16169 Sep 16 18:41 16169 Sep 22 00:23 16169 Oct 01 14:11 16169 Oct 05 14:20 16169 Nov 09 23:41 16169 Nov 09 23:41 16169 Nov 11 06:48 16169 Nov 11 08:52	0° m 8° m/43'24 24° m/04'20 0° Ω 7° Ω37'47 11° Ω02'23 10° Ω 12'04 4° Ω40'48 4° Ω33'57 2° Ω03'05 30° R m 28° m/18'58 27° m/23'45 25° m/43'19 0° Ω 3° Ω38'13 0° m 27° m.16'10 29° m.49'39 0° ズ	18°21'12 2°01'44 2°01'04 0.64813 AU 27°19'16	max. Earth dist. evening rise greatest brilliancy 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 max. Earth dist.	16170 Jun 30 21:42 16170 Jul 02 03:17 16170 Jul 04 23:02 16170 Jul 17 03:08 16170 Jul 24 05:08 16170 Jul 27 03:07 16170 Aug 02 02:24 16170 Aug 08 17:14 16170 Aug 15 11:09 16170 Aug 14 20:53 16170 Aug 24 09:30 16170 Aug 24 11:31 16170 Aug 26 01:28 16170 Aug 30 01:16 16170 Sep 03 16:03 16170 Sep 05 05:16 16170 Sep 18 02:00 16170 Sep 29 01:19 16170 Oct 18 10:09 16170 Oct 23 23:39	25°\$36'11 0°\$\Omega\$ 18°\$\Omega\$58'01 0°\$\mathbf{m}\$ 4°\$\mathbf{m}\$29'09 13°\$\mathbf{m}\$17'56 21°\$\mathbf{m}\$26'47 25°\$\mathbf{m}\$08'12 24°\$\mathbf{m}\$01'16 18°\$\mathbf{m}\$16'06 18°\$\mathbf{m}\$09'09 11°\$\mathbf{m}\$49'19 9°\$\mathbf{m}\$22'04 9°\$\mathbf{m}\$12'44 16°\$\mathbf{m}\$51'08 0°\$\mathbf{n}\$ 0°\$\mathbf{m}\$ 0°\$\mathbf{m}\$ 10°\$\mathbf{m}\$02'05 17°\$\mathbf{m}\$18'21	1.46008 AU -0.8m 18°56'14 2°37'25 2°36'48 0.66561 AU 26°16'58
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	16169 Jul 31 07:21 16169 Aug 05 16:58 16169 Aug 15 05:39 16169 Aug 19 03:35 16169 Aug 25 05:55 16169 Aug 31 15:26 16169 Sep 03 15:43 16169 Sep 09 12:28 16169 Sep 09 14:48 16169 Sep 11 18:17 16169 Sep 13 15:55 16169 Sep 15 12:24 16169 Sep 16 18:41 16169 Sep 16 18:41 16169 Sep 22 00:23 16169 Oct 01 14:11 16169 Oct 05 14:20 16169 Nov 09 23:41 16169 Nov 09 23:41 16169 Nov 11 06:48 16169 Nov 11 08:52	0° m 8° m/43'24 24° m/04'20 0° Ω 7° Ω37'47 11° Ω02'23 10° Ω 12'04 4° Ω40'48 4° Ω33'57 2° Ω03'05 30° R m 28° m/18'58 27° m/23'45 25° m/43'19 0° Ω 3° Ω38'13 0° m 27° m.16'10 29° m.49'39 0° ズ	18°21'12 2°01'44 2°01'04 0.64813 AU 27°19'16	max. Earth dist. evening rise greatest brilliancy 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 max. Earth dist.	16170 Jun 30 21:42 16170 Jul 02 03:17 16170 Jul 04 23:02 16170 Jul 17 03:08 16170 Jul 24 05:08 16170 Jul 27 03:07 16170 Aug 02 02:24 16170 Aug 15 11:09 16170 Aug 24 09:30 16170 Aug 24 09:30 16170 Aug 24 11:31 16170 Aug 26 01:28 16170 Aug 30 01:16 16170 Sep 03 16:03 16170 Sep 05 05:16 16170 Sep 18 02:00 16170 Sep 29 01:19 16170 Oct 18 10:09 16170 Oct 27 19:04	25°\$36'11 0°\$\Omega\$ 18°\$\Omega\$58'01 0°\$\mathbf{m}\$ 4°\$\mathbf{m}\$29'09 13°\$\mathbf{m}\$17'56 21°\$\mathbf{m}\$26'47 25°\$\mathbf{m}\$08'12 24°\$\mathbf{m}\$01'16 18°\$\mathbf{m}\$16'06 18°\$\mathbf{m}\$09'09 11°\$\mathbf{m}\$49'19 9°\$\mathbf{m}\$22'04 9°\$\mathbf{m}\$12'44 16°\$\mathbf{m}\$51'08 0°\$\mathbf{n}\$ 0°\$\mathbf{m}\$ 0°\$\mathbf{m}\$ 10°\$\mathbf{m}\$02'05 17°\$\mathbf{m}\$18'21	1.46008 AU -0.8m -0.8m -0.8725 2°37'25 2°36'48 0.66561 AU 26°16'58
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.	16169 Jul 31 07:21 16169 Aug 05 16:58 16169 Aug 15 05:39 16169 Aug 19 03:35 16169 Aug 25 05:55 16169 Aug 31 15:26 16169 Sep 03 15:43 16169 Sep 09 12:28 16169 Sep 09 14:48 16169 Sep 11 18:17 16169 Sep 13 15:55 16169 Sep 15 12:24 16169 Sep 16 18:41 16169 Sep 22 00:23 16169 Oct 01 14:11 16169 Oct 05 14:20 16169 Oct 05 14:20 16169 Nov 10 06:48 16169 Nov 11 06:48 16169 Nov 11 08:52 16169 Nov 14 10:07	0° m 8° m43'24 24° m04'20 0° Ω 7° Ω37'47 11° Ω02'23 10° Ω12'04 4° Ω40'48 4° Ω33'57 2° Ω03'05 30° R m 28° m18'58 27° m23'45 25° m43'19 0° Ω 3° Ω38'13 0° m 27° m16'10 29° m49'39 0° ズ 6° ズ 11'45	18°21'12 2°01'44 2°01'04 0.64813 AU 27°19'16	max. Earth dist. evening rise greatest brilliancy 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 max. Earth dist. asc. node	16170 Jun 30 21:42 16170 Jul 02 03:17 16170 Jul 04 23:02 16170 Jul 17 03:08 16170 Jul 24 05:08 16170 Jul 27 03:07 16170 Aug 02 02:24 16170 Aug 18 20:53 16170 Aug 18 20:53 16170 Aug 24 09:30 16170 Aug 24 11:31 16170 Aug 26 01:28 16170 Aug 30 01:16 16170 Sep 03 16:03 16170 Sep 03 16:03 16170 Sep 18 02:00 16170 Sep 29 01:19 16170 Oct 18 10:09 16170 Oct 27 19:04 16170 Oct 29 03:38	25°\$36'11 0°\$\Omega\$ 18°\$\Omega\$58'01 0°\$\mathbf{m}\$ 4°\$\mathbf{m}\$29'09 13°\$\mathbf{m}\$17'56 21°\$\mathbf{m}\$26'47 25°\$\mathbf{m}\$08'12 24°\$\mathbf{m}\$01'16 18°\$\mathbf{m}\$16'06 18°\$\mathbf{m}\$09'09 11°\$\mathbf{m}\$49'19 9°\$\mathbf{m}\$22'04 9°\$\mathbf{m}\$12'44 16°\$\mathbf{m}\$51'08 0°\$\mathbf{n}\$ 0°\$\mathbf{m}\$ 10°\$\mathbf{m}\$02'05 17°\$\mathbf{m}\$18'21 19°\$\mathbf{m}\$58'29	1.46008 AU -0.8m -0.8m -0.8725 2°37'25 2°36'48 0.66561 AU 26°16'58
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.	16169 Jul 31 07:21 16169 Aug 05 16:58 16169 Aug 15 05:39 16169 Aug 19 03:35 16169 Aug 25 05:55 16169 Aug 31 15:26 16169 Sep 03 15:43 16169 Sep 09 12:28 16169 Sep 09 14:48 16169 Sep 11 18:17 16169 Sep 13 15:55 16169 Sep 15 12:24 16169 Sep 16 18:41 16169 Sep 22 00:23 16169 Oct 01 14:11 16169 Oct 05 14:20 16169 Oct 05 14:20 16169 Nov 10 06:48 16169 Nov 11 06:48 16169 Nov 11 08:52 16169 Nov 14 10:07	0° m 8° m43'24 24° m04'20 0° Ω 7° Ω37'47 11° Ω02'23 10° Ω12'04 4° Ω40'48 4° Ω33'57 2° Ω03'05 30° R m 28° m 18'58 27° m23'45 25° m43'19 0° Ω 3° Ω38'13 0° m 27° m 16'10 29° m 49'39 0° ズ 6° ズ 11'45	18°21'12 2°01'44 2°01'04 0.64813 AU 27°19'16 1.33030 AU 1°00'11	max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set max. Earth dist. asc. node superior conj	16170 Jun 30 21:42 16170 Jul 02 03:17 16170 Jul 04 23:02 16170 Jul 17 03:08 16170 Jul 24 05:08 16170 Jul 27 03:07 16170 Aug 02 02:24 16170 Aug 15 11:09 16170 Aug 18 20:53 16170 Aug 24 09:30 16170 Aug 24 11:31 16170 Aug 26 01:28 16170 Aug 30 01:16 16170 Sep 03 16:03 16170 Sep 03 16:03 16170 Sep 18 02:00 16170 Sep 29 01:19 16170 Oct 18 10:09 16170 Oct 27 19:04 16170 Oct 29 03:38	25°\$36'11 0°\$\alpha\$ 18°\$\alpha\$58'01 0°\$\text{m}\$ 4°\$\text{m}\$29'09 13°\$\text{m}\$17'56 21°\$\text{m}\$26'47 25°\$\text{m}\$08'12 24°\$\text{m}\$01'16 18°\$\text{m}\$16'06 18°\$\text{m}\$09'41 16°\$\text{m}\$09'09 11°\$\text{m}\$49'19 9°\$\text{m}\$22'04 9°\$\text{m}\$12'44 16°\$\text{m}\$51'08 0°\$\text{n}\$ 0°\$\text{m}\$ 10°\$\text{m}\$02'05 17°\$\text{m}\$18'21 19°\$\text{m}\$58'29 28°\$\text{m}\$00'00	1.46008 AU -0.8m 18°56'14 2°37'25 2°36'48 0.66561 AU 26°16'58 1.34794 AU 0°35'33
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	16169 Jul 31 07:21 16169 Aug 05 16:58 16169 Aug 15 05:39 16169 Aug 19 03:35 16169 Aug 25 05:55 16169 Aug 31 15:26 16169 Sep 03 15:43 16169 Sep 09 12:28 16169 Sep 09 14:48 16169 Sep 11 18:17 16169 Sep 13 15:55 16169 Sep 15 12:24 16169 Sep 16 18:41 16169 Sep 22 00:23 16169 Oct 01 14:11 16169 Oct 05 14:20 16169 Oct 05 14:20 16169 Nov 10 06:48 16169 Nov 11 06:48 16169 Nov 11 08:52 16169 Nov 14 10:07	0° m 8° m43'24 24° m04'20 0° Ω 7° Ω37'47 11° Ω02'23 10° Ω 12'04 4° Ω40'48 4° Ω33'57 2° Ω03'05 30° R m 28° m 18'58 27° m 23'45 25° m 43'19 0° Ω 3° Ω 38'13 0° m 27° m 16'10 29° m 49'39 0° ズ 6° ズ 11'45 14° ズ 12'36 14° ズ 00'00	18°21'12 2°01'44 2°01'04 0.64813 AU 27°19'16 1.33030 AU 1°00'11	max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set max. Earth dist. asc. node superior conj	16170 Jun 30 21:42 16170 Jul 02 03:17 16170 Jul 04 23:02 16170 Jul 17 03:08 16170 Jul 24 05:08 16170 Jul 27 03:07 16170 Aug 02 02:24 16170 Aug 15 11:09 16170 Aug 18 20:53 16170 Aug 24 09:30 16170 Aug 24 11:31 16170 Aug 26 01:28 16170 Aug 30 01:16 16170 Sep 03 16:03 16170 Sep 05 05:16 16170 Sep 18 02:00 16170 Sep 29 01:19 16170 Oct 18 10:09 16170 Oct 27 19:04 16170 Oct 29 03:38 16170 Nov 02 02:55 16170 Nov 02 02:55	25°\$36'11 0°\$\alpha\$ 18°\$\alpha\$58'01 0°\$\mathref{m}\$ 4°\$\mathref{m}\$29'09 13°\$\mathref{m}\$17'56 21°\$\mathref{m}\$26'47 25°\$\mathref{m}\$08'12 24°\$\mathref{m}\$01'16 18°\$\mathref{m}\$16'06 18°\$\mathref{m}\$09'09 11°\$\mathref{m}\$49'19 9°\$\mathref{m}\$22'04 9°\$\mathref{m}\$12'44 16°\$\mathref{m}\$51'08 0°\$\mathref{m}\$ 0°\$\mathref{m}\$ 10°\$\mathref{m}\$02'05 17°\$\mathref{m}\$18'21 19°\$\mathref{m}\$58'29 28°\$\mathref{m}\$00'00 27°\$\mathref{m}\$50'35	1.46008 AU -0.8m 18°56'14 2°37'25 2°36'48 0.66561 AU 26°16'58 1.34794 AU 0°35'33
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	16169 Jul 31 07:21 16169 Aug 05 16:58 16169 Aug 15 05:39 16169 Aug 19 03:35 16169 Aug 25 05:55 16169 Aug 31 15:26 16169 Sep 03 15:43 16169 Sep 09 12:28 16169 Sep 09 14:48 16169 Sep 11 18:17 16169 Sep 13 15:55 16169 Sep 15 12:24 16169 Sep 16 18:41 16169 Sep 22 00:23 16169 Oct 01 14:11 16169 Oct 05 14:20 16169 Oct 05 14:20 16169 Nov 10 06:48 16169 Nov 11 06:48 16169 Nov 11 08:52 16169 Nov 18 05:32 16169 Nov 18 05:32 16169 Nov 18 03:10 16169 Nov 18 03:10	0° m 8° m/43'24 24° m/04'20 0° Ω 7° Ω37'47 11° Ω02'23 10° Ω 12'04 4° Ω40'48 4° Ω33'57 2° Ω03'05 30° R m 28° m/18'58 27° m/23'45 25° m/43'19 0° Ω 3° Ω38'13 0° m 27° m 16'10 29° m 49'39 0° ズ 11'45 14° ズ 12'36 14° ズ 00'00 29° ズ 22'00	18°21'12 2°01'44 2°01'04 0.64813 AU 27°19'16 1.33030 AU 1°00'11	max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set max. Earth dist. asc. node superior conj minimum elong	16170 Jun 30 21:42 16170 Jul 02 03:17 16170 Jul 04 23:02 16170 Jul 17 03:08 16170 Jul 24 05:08 16170 Jul 27 03:07 16170 Aug 02 02:24 16170 Aug 15 11:09 16170 Aug 18 20:53 16170 Aug 24 09:30 16170 Aug 24 11:31 16170 Aug 24 11:31 16170 Aug 30 01:16 16170 Sep 03 16:03 16170 Sep 18 02:00 16170 Sep 18 02:00 16170 Sep 29 01:19 16170 Oct 18 10:09 16170 Oct 23 23:39 16170 Oct 27 19:04 16170 Oct 29 03:38 16170 Nov 02 02:55 16170 Nov 02 01:05 16170 Nov 03 02:09	25°\$36'11 0°\$\alpha\$ 18°\$\alpha\$58'01 0°\$\mathred{m}\$29'09 13°\$\mathred{m}\$29'09 13°\$\mathred{m}\$26'47 25°\$\mathred{m}\$08'12 24°\$\mathred{m}\$01'16 18°\$\mathred{m}\$16'06 18°\$\mathred{m}\$09'09 11°\$\mathred{m}\$49'19 9°\$\mathred{m}\$22'04 9°\$\mathred{m}\$22'04 9°\$\mathred{m}\$12'44 16°\$\mathred{m}\$51'08 0°\$\mathred{\Omega}\$ 0°\$\mathred{m}\$\$100'\mathred{m}\$100'm	1.46008 AU -0.8m 18°56'14 2°37'25 2°36'48 0.66561 AU 26°16'58 1.34794 AU 0°35'33
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	16169 Jul 31 07:21 16169 Aug 05 16:58 16169 Aug 15 05:39 16169 Aug 19 03:35 16169 Aug 25 05:55 16169 Aug 31 15:26 16169 Sep 03 15:43 16169 Sep 09 12:28 16169 Sep 09 14:48 16169 Sep 11 18:17 16169 Sep 13 15:55 16169 Sep 15 12:24 16169 Sep 16 18:41 16169 Sep 22 00:23 16169 Oct 01 14:11 16169 Oct 05 14:20 16169 Oct 25 12:34 16169 Nov 10 06:48 16169 Nov 11 06:48 16169 Nov 11 06:48 16169 Nov 14 10:07	0° m 8° m43'24 24° m04'20 0° Ω 7° Ω37'47 11° Ω02'23 10° Ω12'04 4° Ω40'48 4° Ω33'57 2° Ω03'05 30° R m 28° m18'58 27° m23'45 25° m43'19 0° Ω 3° Ω38'13 0° m 27° m.16'10 29° m.49'39 0° 🖈 6° ₹ 11'45 14° ₹ 12'36 14° ₹ 00'00 29° ₹ 22'00 0° ₹	18°21'12 2°01'44 2°01'04 0.64813 AU 27°19'16 1.33030 AU 1°00'11	max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set max. Earth dist. asc. node superior conj minimum elong	16170 Jun 30 21:42 16170 Jul 02 03:17 16170 Jul 04 23:02 16170 Jul 17 03:08 16170 Jul 24 05:08 16170 Jul 27 03:07 16170 Aug 02 02:24 16170 Aug 15 11:09 16170 Aug 18 20:53 16170 Aug 24 09:30 16170 Aug 24 11:31 16170 Aug 24 11:31 16170 Aug 30 01:16 16170 Sep 03 16:03 16170 Sep 18 02:00 16170 Sep 18 02:00 16170 Sep 29 01:19 16170 Oct 18 10:09 16170 Oct 23 23:39 16170 Oct 27 19:04 16170 Nov 02 02:55 16170 Nov 02 02:55 16170 Nov 03 02:09 16170 Nov 03 02:09 16170 Nov 09 15:11	25°\$36'11 0°\$\alpha\$ 18°\$\alpha\$58'01 0°\$\mathred{m}\$ 4°\$\mathred{m}\$29'09 13°\$\mathred{m}\$17'56 21°\$\mathred{m}\$26'47 25°\$\mathred{m}\$08'12 24°\$\mathred{m}\$01'16 18°\$\mathred{m}\$16'06 18°\$\mathred{m}\$09'09 11°\$\mathred{m}\$49'19 9°\$\mathred{m}\$22'04 9°\$\mathred{m}\$22'04 9°\$\mathred{m}\$22'04 9°\$\mathred{m}\$21'08 0°\$\mathred{m}\$ 0°\$\mathred{m}\$\$1'08 0°\$\mathred{m}\$\$1'08 0°\$\mathred{m}\$\$1'08 0°\$\mathred{m}\$\$10"\mathred{m}\$\$1'08 0°\$\mathred{m}\$\$10"\mathred{m}\$\$1'08 0°\$\mathred{m}\$\$10"\mathred{m}\$\$10"\mathred{m}\$\$21'1 19°\$\mathred{m}\$\$58'29 28°\$\mathred{m}\$\$00'00 27°\$\mathred{m}\$\$50'35 0°\$\mathred{s}\$\$ 13°\$\mathred{s}\$\$42'32	1.46008 AU -0.8m 18°56'14 2°37'25 2°36'48 0.66561 AU 26°16'58 1.34794 AU 0°35'33 0°35'48
evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning set asc. node max. Earth dist. superior conj minimum elong evening rise	16169 Jul 31 07:21 16169 Aug 05 16:58 16169 Aug 15 05:39 16169 Aug 19 03:35 16169 Aug 25 05:55 16169 Aug 31 15:26 16169 Sep 03 15:43 16169 Sep 09 12:28 16169 Sep 09 14:48 16169 Sep 11 18:17 16169 Sep 13 15:55 16169 Sep 15 12:24 16169 Sep 16 18:41 16169 Sep 22 00:23 16169 Oct 01 14:11 16169 Oct 05 14:20 16169 Oct 25 12:34 16169 Nov 10 06:48 16169 Nov 11 06:48 16169 Nov 11 06:48 16169 Nov 14 10:07 16169 Nov 18 05:32 16169 Nov 18 03:10 16169 Nov 25 06:17 16169 Nov 25 13:25 16169 Dec 12 13:43 16169 Dec 12 13:43 16169 Dec 13 16:36	0° m 8° m/43'24 24° m/04'20 0° Ω 7° Ω37'47 11° Ω02'23 10° Ω12'04 4° Ω40'48 4° Ω33'57 2° Ω03'05 30° R m 28° m/18'58 27° m/23'45 25° m/43'19 0° Ω 3° Ω38'13 0° m 27° m.16'10 29° m.49'39 0° ¾ 6° ¾ 11'45 14° ¾ 12'36 14° ¾ 10'00 29° ¾ 22'00 0° ♂ 0° ≈	18°21'12 2°01'44 2°01'04 0.64813 AU 27°19'16 1.33030 AU 1°00'11 1°00'29	max. Earth dist. evening rise greatest brilliancy 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 max. Earth dist. asc. node superior conj minimum elong evening rise	16170 Jun 30 21:42 16170 Jul 02 03:17 16170 Jul 04 23:02 16170 Jul 17 03:08 16170 Jul 24 05:08 16170 Jul 27 03:07 16170 Aug 02 02:24 16170 Aug 08 17:14 16170 Aug 15 11:09 16170 Aug 18 20:53 16170 Aug 24 09:30 16170 Aug 24 01:28 16170 Aug 30 01:16 16170 Aug 30 01:16 16170 Sep 03 16:03 16170 Sep 18 02:00 16170 Sep 18 02:00 16170 Sep 29 01:19 16170 Oct 18 10:09 16170 Oct 23 23:39 16170 Oct 27 19:04 16170 Oct 29 03:38 16170 Nov 02 02:55 16170 Nov 03 02:09 16170 Nov 09 15:11 16170 Nov 07 21:53 16170 Nov 07 28 14:42	25°\$36'11 0°\$\alpha\$ 18°\$\alpha\$58'01 0°\$\mathref{m}\$ 4°\$\mathref{m}\$29'09 13°\$\mathref{m}\$17'56 21°\$\mathref{m}\$26'47 25°\$\mathref{m}\$08'12 24°\$\mathref{m}\$01'16 18°\$\mathref{m}\$16'06 18°\$\mathref{m}\$09'09 11°\$\mathref{m}\$49'19 9°\$\mathref{m}\$22'04 9°\$\mathref{m}\$12'44 16°\$\mathref{m}\$51'08 0°\$\mathref{m}\$ 0°\$\mathref{m}\$ 0°\$\mathref{m}\$ 10°\$\mathref{m}\$02'05 17°\$\mathref{m}\$18'21 19°\$\mathref{m}\$50'35 0°\$\mathref{m}\$ 13°\$\mathref{m}\$42'32 0°\$\mathref{m}\$	1.46008 AU -0.8m 18°56'14 2°37'25 2°36'48 0.66561 AU 26°16'58 1.34794 AU 0°35'33 0°35'48
evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node	16169 Jul 31 07:21 16169 Aug 05 16:58 16169 Aug 15 05:39 16169 Aug 19 03:35 16169 Aug 25 05:55 16169 Aug 31 15:26 16169 Sep 03 15:43 16169 Sep 09 12:28 16169 Sep 09 14:48 16169 Sep 11 18:17 16169 Sep 13 15:55 16169 Sep 15 12:24 16169 Sep 16 18:41 16169 Sep 22 00:23 16169 Oct 01 14:11 16169 Oct 05 14:20 16169 Oct 25 12:34 16169 Nov 10 06:48 16169 Nov 11 06:48 16169 Nov 11 08:52 16169 Nov 18 05:32 16169 Nov 18 05:32 16169 Nov 18 03:10 16169 Nov 25 06:17 16169 Nov 25 13:25 16169 Dec 12 13:43	0° m 8° m/43'24 24° m/04'20 0° Ω 7° Ω37'47 11° Ω02'23 10° Ω12'04 4° Ω40'48 4° Ω33'57 2° Ω03'05 30° R m 28° m/18'58 27° m/23'45 25° m/43'19 0° Ω 3° Ω38'13 0° m 27° m.16'10 29° m.49'39 0° ¾ 6° ¾ 11'45 14° ¾ 12'36 14° ¾ 00'00 29° ¾ 22'00 0° ☒ 0° ≈ 1° ≈ 22'39	18°21'12 2°01'44 2°01'04 0.64813 AU 27°19'16 1.33030 AU 1°00'11 1°00'29	max. Earth dist. evening rise greatest brilliancy 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 max. Earth dist. asc. node superior conj minimum elong evening rise evening max el	16170 Jun 30 21:42 16170 Jul 02 03:17 16170 Jul 04 23:02 16170 Jul 17 03:08 16170 Jul 24 05:08 16170 Jul 27 03:07 16170 Aug 02 02:24 16170 Aug 15 11:09 16170 Aug 18 20:53 16170 Aug 24 09:30 16170 Aug 24 09:30 16170 Aug 26 01:28 16170 Aug 30 01:16 16170 Aug 30 01:16 16170 Sep 03 16:03 16170 Sep 18 02:00 16170 Sep 18 02:00 16170 Sep 29 01:19 16170 Oct 18 10:09 16170 Oct 23 23:39 16170 Oct 27 19:04 16170 Oct 29 03:38 16170 Nov 02 02:55 16170 Nov 03 02:09 16170 Nov 09 15:11 16170 Nov 09 15:11	25°\$36'11 0°\$\alpha\$ 18°\$\alpha\$58'01 0°\$\mathref{m}\$ 4°\$\mathref{m}\$29'09 13°\$\mathref{m}\$17'56 21°\$\mathref{m}\$26'47 25°\$\mathref{m}\$08'12 24°\$\mathref{m}\$01'16 18°\$\mathref{m}\$16'06 18°\$\mathref{m}\$09'09 11°\$\mathref{m}\$49'19 9°\$\mathref{m}\$22'04 9°\$\mathref{m}\$12'44 16°\$\mathref{m}\$51'08 0°\$\mathref{m}\$ 0°\$\mathref{m}\$ 0°\$\mathref{m}\$ 10°\$\mathref{m}\$02'05 17°\$\mathref{m}\$18'21 19°\$\mathref{m}\$50'35 0°\$\mathref{m}\$ 13°\$\mathref{m}\$42'32 0°\$\mathref{m}\$ 15°\$\mathref{G}\$03'57	1.46008 AU -0.8m 18°56'14 2°37'25 2°36'48 0.66561 AU 26°16'58 1.34794 AU 0°35'33 0°35'48

	16150 5 10 11 05	200-700156			1615131 16 05 50	~~~	
evening set	16170 Dec 12 14:37	20°₹28'56			16171 Nov 16 07:59	0°る	
inferior conj	16170 Dec 21 09:29	16° る 37'04		desc. node	16171 Nov 17 10:44	0° る 26'15	
minimum elong	16170 Dec 21 01:24	16°る48'38		retrograde	16171 Nov 20 18:20	0°る59'11	
min. Earth dist.	16170 Dec 22 09:46		0.54477 AU	evening set	16171 Nov 22 17:38	0°る48'13	
morning rise	16170 Dec 29 12:09	12°る42'52			16171 Nov 25 11:00	30°₹ ⋌ ¹	401.411.0
direct	16171 Jan 02 19:21	12°る03'06		inferior conj	16171 Dec 01 09:37	26° ∡ ¹44'27	
morning max el	16171 Jan 16 00:42	18°る30'46	23°13'21	minimum elong	16171 Nov 30 23:52	26° ₹ 59'55	4°10'24
asc. node	16171 Jan 25 02:49	29° る 43'29		min. Earth dist.	16171 Dec 03 17:43	25° ₹ 15'36	0.55370 AU
	16171 Jan 25 07:11	0° ≈		morning rise	16171 Dec 09 04:17	22° ∡ ¹25'14 −	
morning set	16171 Feb 08 03:40	25°≈52'20		direct	16171 Dec 14 11:25	21° ∡ ¹22'34	
	16171 Feb 10 01:44	0° ∀		morning max el	16171 Dec 28 09:01	28° ∡ ¹21'20	25°02'31
					16171 Dec 30 00:31	0°ಕ	
superior conj	16171 Feb 15 01:14		1°25'32	asc. node	16172 Jan 12 00:02	17° る 52'30	
minimum elong	16171 Feb 15 03:13		1°25'38		16172 Jan 18 13:46	0° ≈	
max. Earth dist.	16171 Feb 18 05:19	17°) 32′07	1.33208 AU	morning set	16172 Jan 23 15:33	10° ≈ 32'46	
evening rise	16171 Feb 22 22:29	27° ₩ 09'13					
	16171 Feb 24 09:22	0 ° $\mathbf{\gamma}$		superior conj	16172 Jan 30 09:22	25° ≈ 22'16	1°34'53
desc. node	16171 Feb 26 14:03	4° Υ 11'09		minimum elong	16172 Jan 30 10:27	25° ≈ 28'15	1°35'18
	16171 Mar 14 01:44	$_{0\circ}$ 8			16172 Feb 01 12:00	0° ∀	
evening max el	16171 Mar 29 08:48	_	27°20'00	max. Earth dist.	16172 Feb 01 06:16	29° ≈ 28'46	1.31951 AU
retrograde	16171 Apr 11 23:51	26° 8 28'13		evening rise	16172 Feb 06 16:51	11°) €02'23	
evening set	16171 Apr 18 16:02	23° 8 58'36		desc. node	16172 Feb 13 10:43	24° ∺ 12'25	
min. Earth dist.	16171 Apr 22 12:11	20° 8 25'25	0.64823 AU		16172 Feb 16 16:07	0 ° Υ	
asc. node	16171 Apr 23 00:05	19° 8 53'32			16172 Mar 08 21:22	9° 8	
inferior conj	16171 Apr 25 00:02	17° 8 41'48	0°37'03	evening max el	16172 Mar 10 20:19	1° 8 57'43	27°36'28
minimum elong	16171 Apr 24 23:02	17° 8 44'34	0°36'12	retrograde	16172 Mar 24 18:22	9° 8 27'35	
morning rise	16171 May 01 08:00	12° 8 16'01		evening set	16172 Mar 31 13:46	7° と 08'39	
direct	16171 May 04 00:10	11° 8 38'41		min. Earth dist.	16172 Apr 04 08:03	4° 8 02'30	0.62780 AU
morning max el	16171 May 10 07:34	14° 8 53'44	17°53'58	inferior conj	16172 Apr 07 06:24	1° 8 10'25	-0°31'03
	16171 May 21 05:12	$\Pi^{\circ}0$		minimum elong	16172 Apr 07 07:26	1° 8 07'54	0°30'56
desc. node	16171 May 25 15:06	7° Ⅱ 14'38		C	16172 Apr 08 11:31	30° ₹ Υ	
morning set	16171 May 27 21:09	10° Ⅱ 58'34		asc. node	16172 Apr 08 21:21	29° Ƴ 36'58	
Ü	16171 Jun 08 12:31	0ം ഉ		morning rise	16172 Apr 14 03:55	26° Y ′00'33	
				direct	16172 Apr 16 12:03	25° Ƴ 34'49	
superior coni	16171 Jun 10 19:03	3°937'41	-1°47'48	morning max el	-	28° Y 54′02	17°46'09
superior conj minimum elong	16171 Jun 10 19:03 16171 Jun 10 10:27	3°537'41 3°503'28		morning max el	16172 Apr 23 01:12	28° Y 54'02 0° と	17°46'09
minimum elong	16171 Jun 10 10:27	3°503'28	1°47'46	-	16172 Apr 23 01:12 16172 Apr 24 02:40	0° 8	17°46'09
minimum elong max. Earth dist.	16171 Jun 10 10:27 16171 Jun 14 23:09	3°503'28 10°512'57		morning set	16172 Apr 23 01:12 16172 Apr 24 02:40 16172 May 09 04:34	0° と 23° と 31'44	17°46'09
minimum elong	16171 Jun 10 10:27 16171 Jun 14 23:09 16171 Jun 26 18:08	3°503'28 10°512'57 28°528'16	1°47'46	-	16172 Apr 23 01:12 16172 Apr 24 02:40 16172 May 09 04:34 16172 May 11 11:58	0°8 23°831'44 27°832'18	17°46'09
minimum elong max. Earth dist. evening rise	16171 Jun 10 10:27 16171 Jun 14 23:09 16171 Jun 26 18:08 16171 Jun 27 18:07	3°503'28 10°512'57 28°528'16 0°Ω	1°47'46 1.45579 AU	morning set	16172 Apr 23 01:12 16172 Apr 24 02:40 16172 May 09 04:34	0° と 23° と 31'44	17°46'09
minimum elong max. Earth dist.	16171 Jun 10 10:27 16171 Jun 14 23:09 16171 Jun 26 18:08 16171 Jun 27 18:07 16171 Jul 11 04:23	3°\$03'28 10°\$12'57 28°\$28'16 0°\$\Omega\$ 20°\$\Omega\$08'46	1°47'46 1.45579 AU	morning set desc. node	16172 Apr 23 01:12 16172 Apr 24 02:40 16172 May 09 04:34 16172 May 11 11:58 16172 May 12 22:07	0° 8 23° 8 31'44 27° 8 32'18 0°П	
minimum elong max. Earth dist. evening rise greatest brilliancy	16171 Jun 10 10:27 16171 Jun 14 23:09 16171 Jun 26 18:08 16171 Jun 27 18:07 16171 Jul 11 04:23 16171 Jul 18 07:55	3°503'28 10°512'57 28°528'16 0°N 20°N08'46 0°M	1°47'46 1.45579 AU	morning set desc. node superior conj	16172 Apr 23 01:12 16172 Apr 24 02:40 16172 May 09 04:34 16172 May 11 11:58 16172 May 12 22:07 16172 May 21 07:13	0°8 23°831'44 27°832'18 0°Ⅲ 14°Ⅲ10'44	-1°13'49
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node	16171 Jun 10 10:27 16171 Jun 14 23:09 16171 Jun 26 18:08 16171 Jun 27 18:07 16171 Jul 11 04:23 16171 Jul 18 07:55 16171 Jul 19 23:11	3°503'28 10°512'57 28°528'16 0°10 20°108'46 0°10 2°1001'22	1°47'46 1.45579 AU -0.6m	morning set desc. node superior conj minimum elong	16172 Apr 23 01:12 16172 Apr 24 02:40 16172 May 09 04:34 16172 May 11 11:58 16172 May 12 22:07 16172 May 21 07:13 16172 May 21 00:23	0°8 23°831'44 27°832'18 0°Ⅲ 14°Ⅲ10'44 13°Ⅲ42'28	-1°13'49 1°13'36
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el	16171 Jun 10 10:27 16171 Jun 14 23:09 16171 Jun 26 18:08 16171 Jun 27 18:07 16171 Jul 11 04:23 16171 Jul 18 07:55 16171 Jul 19 23:11 16171 Jul 22 23:24	3°\$03'28 10°\$12'57 28°\$28'16 0°\$\Omega\$ 20°\$\Omega\$08'46 0°\$\Omega\$2°\$\Omega\$01'22 5°\$\Omega\$20'14	1°47'46 1.45579 AU	morning set desc. node superior conj	16172 Apr 23 01:12 16172 Apr 24 02:40 16172 May 09 04:34 16172 May 11 11:58 16172 May 12 22:07 16172 May 21 07:13 16172 May 21 00:23 16172 May 27 16:45	0° 8 23° 8 31'44 27° 8 32'18 0° П 14° П 10'44 13° П 42'28 24° П 35'00	-1°13'49
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde	16171 Jun 10 10:27 16171 Jun 14 23:09 16171 Jun 26 18:08 16171 Jun 27 18:07 16171 Jul 11 04:23 16171 Jul 18 07:55 16171 Jul 19 23:11 16171 Jul 22 23:24 16171 Jul 30 09:35	3°\$03'28 10°\$12'57 28°\$28'16 0°Ω 20°Ω08'46 0°™ 2°™01'22 5°™20'14 9°™30'31	1°47'46 1.45579 AU -0.6m	morning set desc. node superior conj minimum elong max. Earth dist.	16172 Apr 23 01:12 16172 Apr 24 02:40 16172 May 09 04:34 16172 May 11 11:58 16172 May 12 22:07 16172 May 21 07:13 16172 May 21 00:23 16172 May 27 16:45 16172 May 31 02:45	0°8 23°831'44 27°832'18 0°∏ 14°∏10'44 13°∏42'28 24°∏35'00 0°\$	-1°13'49 1°13'36
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set	16171 Jun 10 10:27 16171 Jun 14 23:09 16171 Jun 26 18:08 16171 Jun 27 18:07 16171 Jul 11 04:23 16171 Jul 18 07:55 16171 Jul 19 23:11 16171 Jul 22 23:24 16171 Jul 30 09:35 16171 Aug 03 05:27	3°503'28 10°512'57 28°528'16 0°N 20°N08'46 0°M 2°M01'22 5°M20'14 9°M30'31 8°M05'54	1°47'46 1.45579 AU -0.6m 19°47'27	morning set desc. node superior conj minimum elong	16172 Apr 23 01:12 16172 Apr 24 02:40 16172 May 09 04:34 16172 May 11 11:58 16172 May 12 22:07 16172 May 21 07:13 16172 May 21 00:23 16172 May 27 16:45 16172 May 31 02:45 16172 Jun 05 05:08	0°8 23°831'44 27°832'18 0°Ⅲ 14°Ⅲ10'44 13°Ⅲ42'28 24°Ⅲ35'00 0° 7°9555'46	-1°13'49 1°13'36
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj	16171 Jun 10 10:27 16171 Jun 14 23:09 16171 Jun 26 18:08 16171 Jun 27 18:07 16171 Jul 11 04:23 16171 Jul 18 07:55 16171 Jul 19 23:11 16171 Jul 30 09:35 16171 Aug 03 05:27 16171 Aug 08 13:07	3°503'28 10°512'57 28°528'16 0° N 20° N08'46 0° M 2° M01'22 5° M20'14 9° M30'31 8° M05'54 2° M08'19	1°47'46 1.45579 AU -0.6m 19°47'27 2°58'50	morning set desc. node superior conj minimum elong max. Earth dist. evening rise	16172 Apr 23 01:12 16172 Apr 24 02:40 16172 May 09 04:34 16172 May 11 11:58 16172 May 12 22:07 16172 May 21 07:13 16172 May 21 00:23 16172 May 27 16:45 16172 May 31 02:45 16172 Jun 05 05:08 16172 Jun 20 00:12	0°8 23°831'44 27°832'18 0°Π 14°Π10'44 13°Π42'28 24°Π35'00 0°9 7°9555'46 0°Ω	-1°13'49 1°13'36 1.44450 AU
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong	16171 Jun 10 10:27 16171 Jun 14 23:09 16171 Jun 26 18:08 16171 Jun 27 18:07 16171 Jul 11 04:23 16171 Jul 18 07:55 16171 Jul 19 23:11 16171 Jul 22 23:24 16171 Jul 30 09:35 16171 Aug 03 05:27 16171 Aug 08 13:07 16171 Aug 08 14:22	3°503'28 10°512'57 28°528'16 0° N 20° N08'46 0° M 2° M01'22 5° M20'14 9° M30'31 8° M05'54 2° M08'19 2° M04'05	1°47'46 1.45579 AU -0.6m 19°47'27 2°58'50 2°58'17	morning set desc. node superior conj minimum elong max. Earth dist. evening rise evening max el	16172 Apr 23 01:12 16172 Apr 24 02:40 16172 May 09 04:34 16172 May 11 11:58 16172 May 12 22:07 16172 May 21 07:13 16172 May 21 00:23 16172 May 27 16:45 16172 May 31 02:45 16172 Jun 05 05:08 16172 Jun 20 00:12 16172 Jul 04 23:32	0°8 23°831'44 27°832'18 0°Π 14°Π10'44 13°Π42'28 24°Π35'00 0°© 7°©55'46 0°Ω 19°Ω14'48	-1°13'49 1°13'36
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj	16171 Jun 10 10:27 16171 Jun 14 23:09 16171 Jun 26 18:08 16171 Jun 27 18:07 16171 Jul 11 04:23 16171 Jul 18 07:55 16171 Jul 19 23:11 16171 Jul 22 23:24 16171 Jul 30 09:35 16171 Aug 03 05:27 16171 Aug 08 13:07 16171 Aug 09 15:11	3°503'28 10°512'57 28°528'16 0°A 20°A08'46 0°M 2°M01'22 5°M20'14 9°M30'31 8°M05'54 2°M08'19 2°M04'05 0°M40'49	1°47'46 1.45579 AU -0.6m 19°47'27 2°58'50	morning set desc. node superior conj minimum elong max. Earth dist. evening rise evening max el asc. node	16172 Apr 23 01:12 16172 Apr 24 02:40 16172 May 09 04:34 16172 May 11 11:58 16172 May 12 22:07 16172 May 21 07:13 16172 May 21 00:23 16172 May 27 16:45 16172 May 31 02:45 16172 Jun 05 05:08 16172 Jun 20 00:12 16172 Jul 04 23:32 16172 Jul 05 20:01	0°8 23°831'44 27°832'18 0°Ⅲ 14°Ⅲ10'44 13°Ⅲ42'28 24°Ⅲ35'00 0°© 7°©55'46 0°Ω 19°Ω14'48 20°Ω04'16	-1°13'49 1°13'36 1.44450 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.	16171 Jun 10 10:27 16171 Jun 14 23:09 16171 Jun 26 18:08 16171 Jun 27 18:07 16171 Jul 11 04:23 16171 Jul 18 07:55 16171 Jul 19 23:11 16171 Jul 22 23:24 16171 Jul 30 09:35 16171 Aug 03 05:27 16171 Aug 08 13:07 16171 Aug 08 14:22 16171 Aug 09 15:11 16171 Aug 10 03:32	3°\$03'28 10°\$12'57 28°\$28'16 0°\$\Omega\$ 20°\$\Omega\$08'46 0°\$\Omega\$ 2°\$\Omega\$01'22 5°\$\Omega\$20'14 9°\$\Omega\$30'31 8°\$\Omega\$05'54 2°\$\Omega\$04'05 0°\$\Omega\$40'49 30°\$\Omega\$	1°47'46 1.45579 AU -0.6m 19°47'27 2°58'50 2°58'17	morning set desc. node superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde	16172 Apr 23 01:12 16172 Apr 24 02:40 16172 May 09 04:34 16172 May 11 11:58 16172 May 12 22:07 16172 May 21 07:13 16172 May 21 00:23 16172 May 27 16:45 16172 May 31 02:45 16172 Jun 05 05:08 16172 Jun 20 00:12 16172 Jul 04 23:32 16172 Jul 05 20:01 16172 Jul 13 08:32	0°8 23°831'44 27°832'18 0° II 14° II 10'44 13° II 42'28 24° II 35'00 0°	-1°13'49 1°13'36 1.44450 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	16171 Jun 10 10:27 16171 Jun 14 23:09 16171 Jun 26 18:08 16171 Jun 27 18:07 16171 Jul 11 04:23 16171 Jul 18 07:55 16171 Jul 19 23:11 16171 Jul 22 23:24 16171 Jul 30 09:35 16171 Aug 03 05:27 16171 Aug 08 13:07 16171 Aug 09 15:11 16171 Aug 10 03:32 16171 Aug 10 03:32	3°\$03'28 10°\$12'57 28°\$28'16 0°\$\Omega\$ 20°\$\Omega\$08'46 0°\$\Omega\$ 2°\$\Omega\$01'22 5°\$\Omega\$20'14 9°\$\Omega\$30'31 8°\$\Omega\$05'54 2°\$\Omega\$04'05 0°\$\Omega\$40'49 30°\$\Omega\$0 25°\$\Omega\$42'19	1°47'46 1.45579 AU -0.6m 19°47'27 2°58'50 2°58'17	morning set desc. node superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set	16172 Apr 23 01:12 16172 Apr 24 02:40 16172 May 09 04:34 16172 May 11 11:58 16172 May 12 22:07 16172 May 21 07:13 16172 May 21 00:23 16172 May 27 16:45 16172 May 31 02:45 16172 Jun 05 05:08 16172 Jun 05 05:08 16172 Jul 04 23:32 16172 Jul 05 20:01 16172 Jul 13 08:32 16172 Jul 17 15:16	0°8 23°831'44 27°832'18 0° II 14° II 10'44 13° II 42'28 24° II 35'00 0° © 7° © 55'46 0° Ω 19° Ω 14'48 20° Ω 04'16 24° Ω 03'49 22° Ω 21'20	-1°13'49 1°13'36 1.44450 AU 20°52'46
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	16171 Jun 10 10:27 16171 Jun 14 23:09 16171 Jun 26 18:08 16171 Jun 27 18:07 16171 Jul 11 04:23 16171 Jul 18 07:55 16171 Jul 19 23:11 16171 Jul 22 23:24 16171 Jul 30 09:35 16171 Aug 03 05:27 16171 Aug 08 13:07 16171 Aug 08 14:22 16171 Aug 09 15:11 16171 Aug 10 03:32 16171 Aug 13 22:49 16171 Aug 19 16:29	3°\$03'28 10°\$12'57 28°\$28'16 0°\$\Omega\$20'08'46 0°\$\Omega\$20'14 9°\$\Omega\$30'31 8°\$\Omega\$05'54 2°\$\Omega\$08'19 2°\$\Omega\$04'05 0°\$\Omega\$40'49 30°\$\Omega\$0.25'\$\Omega\$42'19 23°\$\Omega\$12'27	1°47'46 1.45579 AU -0.6m 19°47'27 2°58'50 2°58'17	morning set desc. node superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj	16172 Apr 23 01:12 16172 Apr 24 02:40 16172 May 09 04:34 16172 May 11 11:58 16172 May 12 22:07 16172 May 21 07:13 16172 May 21 00:23 16172 May 27 16:45 16172 May 31 02:45 16172 Jun 05 05:08 16172 Jun 20 00:12 16172 Jul 04 23:32 16172 Jul 05 20:01 16172 Jul 13 08:32 16172 Jul 17 15:16 16172 Jul 22 20:51	0°8 23°831'44 27°832'18 0°Π 14°Π10'44 13°Π42'28 24°Π35'00 0°\$ 7°\$55'46 0°Ω 19°Ω14'48 20°Ω04'16 24°Ω03'49 22°Ω21'20 16°Ω12'36	-1°13'49 1°13'36 1.44450 AU 20°52'46
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	16171 Jun 10 10:27 16171 Jun 14 23:09 16171 Jun 26 18:08 16171 Jun 27 18:07 16171 Jul 11 04:23 16171 Jul 18 07:55 16171 Jul 19 23:11 16171 Jul 22 23:24 16171 Jul 30 09:35 16171 Aug 03 05:27 16171 Aug 08 13:07 16171 Aug 08 14:22 16171 Aug 09 15:11 16171 Aug 10 03:32 16171 Aug 11 03:32 16171 Aug 12:49 16171 Aug 19 16:29 16171 Aug 21 13:24	3°\$03'28 10°\$12'57 28°\$28'16 0°\$\Omega\$20'08'46 0°\$\Omega\$20'14 9°\$\Omega\$30'31 8°\$\Omega\$05'54 2°\$\Omega\$08'19 2°\$\Omega\$04'05 0°\$\Omega\$40'49 30°\$\Omega\$0\$25'\$\Omega\$42'19 23°\$\Omega\$12'27 23°\$\Omega\$26'20	1°47'46 1.45579 AU -0.6m 19°47'27 2°58'50 2°58'17	morning set desc. node superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong	16172 Apr 23 01:12 16172 Apr 24 02:40 16172 May 09 04:34 16172 May 11 11:58 16172 May 12 22:07 16172 May 21 07:13 16172 May 21 00:23 16172 May 27 16:45 16172 May 31 02:45 16172 Jun 05 05:08 16172 Jun 05 05:08 16172 Jun 05 00:12 16172 Jul 04 23:32 16172 Jul 05 20:01 16172 Jul 13 08:32 16172 Jul 17 15:16 16172 Jul 22 20:51 16172 Jul 22 21:10	0°8 23°831'44 27°832'18 0°Π 14°Π10'44 13°Π42'28 24°Π35'00 0°\$ 7°\$55'46 0°Ω 19°Ω14'48 20°Ω04'16 24°Ω03'49 22°Ω21'20 16°Ω12'36 16°Ω11'29	-1°13'49 1°13'36 1.44450 AU 20°52'46 3°07'56 3°07'22
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	16171 Jun 10 10:27 16171 Jun 26 18:08 16171 Jun 27 18:07 16171 Jun 27 18:07 16171 Jul 11 04:23 16171 Jul 18 07:55 16171 Jul 19 23:11 16171 Jul 22 23:24 16171 Jul 30 09:35 16171 Aug 03 05:27 16171 Aug 08 13:07 16171 Aug 08 14:22 16171 Aug 09 15:11 16171 Aug 10 03:32 16171 Aug 10 03:32 16171 Aug 19 16:29 16171 Aug 21 13:24 16171 Aug 21 13:24	3°\$03'28 10°\$12'57 28°\$28'16 0°\$\Omega\$20'08'46 0°\$\Omega\$20'14 9°\$\Omega\$30'31 8°\$\Omega\$05'54 2°\$\Omega\$08'19 2°\$\Omega\$04'05 0°\$\Omega\$40'49 30°\$\Omega\$0 25°\$\Omega\$42'19 23°\$\Omega\$12'27 23°\$\Omega\$26'20 0°\$\Omega\$	1°47'46 1.45579 AU -0.6m 19°47'27 2°58'50 2°58'17 0.67892 AU	morning set desc. node superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	16172 Apr 23 01:12 16172 Apr 24 02:40 16172 May 09 04:34 16172 May 11 11:58 16172 May 12 22:07 16172 May 21 07:13 16172 May 21 00:23 16172 May 27 16:45 16172 May 31 02:45 16172 Jun 05 05:08 16172 Jun 05 05:08 16172 Jun 04 23:32 16172 Jul 04 23:32 16172 Jul 13 08:32 16172 Jul 13 08:32 16172 Jul 17 15:16 16172 Jul 22 20:51 16172 Jul 22 21:10 16172 Jul 23 09:19	0°8 23°831'44 27°832'18 0° II 14° II 10'44 13° II 42'28 24° II 35'00 0° © 7° © 55'46 0° Ω 19° Ω 14'48 20° Ω 04'16 24° Ω 03'49 22° Ω 21'20 16° Ω 12'36 16° Ω 11'29 15° Ω 29'25	-1°13'49 1°13'36 1.44450 AU 20°52'46
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	16171 Jun 10 10:27 16171 Jun 26 18:08 16171 Jun 27 18:07 16171 Jun 27 18:07 16171 Jul 11 04:23 16171 Jul 18 07:55 16171 Jul 19 23:11 16171 Jul 22 23:24 16171 Jul 30 09:35 16171 Aug 03 05:27 16171 Aug 08 13:07 16171 Aug 08 14:22 16171 Aug 09 15:11 16171 Aug 10 03:32 16171 Aug 11 03:32 16171 Aug 12:49 16171 Aug 11 16:29 16171 Aug 21 13:24 16171 Aug 31 05:40 16171 Aug 31 13:02	3°\$03'28 10°\$12'57 28°\$28'16 0°\$\Omega\$20'08'46 0°\$\Omega\$20'14 9°\$\Omega\$30'31 8°\$\Omega\$05'54 2°\$\Omega\$08'19 2°\$\Omega\$04'05 0°\$\Omega\$42'19 23°\$\Omega\$212'27 23°\$\Omega\$26'20 0°\$\Omega\$18'28	1°47'46 1.45579 AU -0.6m 19°47'27 2°58'50 2°58'17 0.67892 AU	morning set desc. node superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	16172 Apr 23 01:12 16172 Apr 24 02:40 16172 May 09 04:34 16172 May 11 11:58 16172 May 12 22:07 16172 May 21 07:13 16172 May 21 00:23 16172 May 27 16:45 16172 May 31 02:45 16172 Jun 05 05:08 16172 Jun 05 05:08 16172 Jun 05 00:12 16172 Jul 04 23:32 16172 Jul 05 20:01 16172 Jul 13 08:32 16172 Jul 17 15:16 16172 Jul 22 20:51 16172 Jul 22 21:10 16172 Jul 23 09:19 16172 Jul 28 02:47	0°8 23°831'44 27°832'18 0°Π 14°Π10'44 13°Π42'28 24°Π35'00 0°9 7°955'46 0°Ω 19°Ω14'48 20°Ω04'16 24°Ω03'49 22°Ω21'20 16°Ω12'36 16°Ω11'29 15°Ω29'25 9°Ω51'08	-1°13'49 1°13'36 1.44450 AU 20°52'46 3°07'56 3°07'22
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	16171 Jun 10 10:27 16171 Jun 26 18:08 16171 Jun 27 18:07 16171 Jun 27 18:07 16171 Jul 11 04:23 16171 Jul 18 07:55 16171 Jul 19 23:11 16171 Jul 22 23:24 16171 Jul 30 09:35 16171 Aug 03 05:27 16171 Aug 08 13:07 16171 Aug 09 15:11 16171 Aug 10 03:32 16171 Aug 10 03:32 16171 Aug 11 22:49 16171 Aug 11 13:24 16171 Aug 21 13:24 16171 Aug 31 05:40 16171 Aug 31 13:02 16171 Aug 31 13:02	3°\$03'28 10°\$12'57 28°\$28'16 0°\$\Omega\$20'08'46 0°\$\Omega\$20'14 9°\$\Omega\$30'31 8°\$\Omega\$05'54 2°\$\Omega\$08'19 2°\$\Omega\$04'05 0°\$\Omega\$40'49 30°\$\Omega\$02'27 23°\$\Omega\$26'20 0°\$\Omega\$0"\Omega\$18'28 0°\$\Omega\$	1°47'46 1.45579 AU -0.6m 19°47'27 2°58'50 2°58'17 0.67892 AU	morning set desc. node superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	16172 Apr 23 01:12 16172 Apr 24 02:40 16172 May 09 04:34 16172 May 11 11:58 16172 May 12 22:07 16172 May 21 07:13 16172 May 21 00:23 16172 May 27 16:45 16172 May 31 02:45 16172 Jun 05 05:08 16172 Jun 05 05:08 16172 Jun 05 00:12 16172 Jul 04 23:32 16172 Jul 05 20:01 16172 Jul 13 08:32 16172 Jul 17 15:16 16172 Jul 22 20:51 16172 Jul 22 20:51 16172 Jul 23 09:19 16172 Jul 28 02:47 16172 Aug 02 08:43	0°8 23°831'44 27°832'18 0°11 14°110'44 13°142'28 24°135'00 0°9 7°955'46 0°0 19°014'48 20°004'16 24°003'49 22°021'20 16°012'36 16°011'29 15°029'25 9°051'08 7°034'16	-1°13'49 1°13'36 1.44450 AU 20°52'46 3°07'56 3°07'22
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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. asc. node superior conj minimum elong behind sun begin behind sun end	16171 Jun 10 10:27 16171 Jun 26 18:08 16171 Jun 27 18:07 16171 Jun 11 04:23 16171 Jul 11 04:23 16171 Jul 18 07:55 16171 Jul 19 23:11 16171 Jul 22 23:24 16171 Jul 30 09:35 16171 Aug 03 05:27 16171 Aug 08 13:07 16171 Aug 08 14:22 16171 Aug 10 03:32 16171 Aug 10 03:32 16171 Aug 11 22:49 16171 Aug 11 32:49 16171 Aug 11 32:49 16171 Aug 11 3:24 16171 Aug 31 05:40 16171 Aug 31 13:02 16171 Aug 31 13:02 16171 Aug 31 13:02 16171 Oct 16 07:15 16171 Oct 10 16:15 16171 Oct 16 10:25 16171 Oct 16 13:58 16171 Oct 16 13:58 16171 Oct 16 07:47 16171 Oct 16 07:47 16171 Oct 16 07:47 16171 Oct 16 07:47	3°\$03'28 10°\$12'57 28°\$28'16 0°\$\Omega\$20'08'46 0°\$\Omega\$20'\Omega\$01'22 5°\$\Omega\$20'14 9°\$\Omega\$30'31 8°\$\Omega\$05'54 2°\$\Omega\$04'05 0°\$\Omega\$40'49 30°\$\Omega\$0 25°\$\Omega\$42'19 23°\$\Omega\$26'20 0°\$\Omega\$0 0°\$\Omega\$18'28 0°\$\Omega\$22'\Omega\$04'33 28°\$\Omega\$25'36 0°\$\Omega\$10'\Omega\$11'16'16 11°\$\Omega\$118'23 11°\$\Omega\$116'37 10°\$\Omega\$46'58	1°47'46 1.45579 AU -0.6m 19°47'27 2°58'50 2°58'17 0.67892 AU 24°56'47 1.36986 AU	morning set desc. node superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	16172 Apr 23 01:12 16172 Apr 24 02:40 16172 May 09 04:34 16172 May 11 11:58 16172 May 12 22:07 16172 May 21 07:13 16172 May 21 00:23 16172 May 27 16:45 16172 May 31 02:45 16172 Jun 05 05:08 16172 Jun 05 05:08 16172 Jul 04 23:32 16172 Jul 05 20:01 16172 Jul 13 08:32 16172 Jul 17 15:16 16172 Jul 22 20:51 16172 Jul 22 20:51 16172 Jul 22 20:51 16172 Jul 23 09:19 16172 Jul 28 02:47 16172 Jul 28 02:47 16172 Aug 02 08:43 16172 Aug 07 10:43 16172 Aug 13 00:02 16172 Aug 26 01:32 16172 Sep 14 19:39 16172 Sep 16 18:17 16172 Sep 28 12:00 16172 Sep 28 12:00 16172 Sep 28 12:00	0°8 23°831'44 27°832'18 0° II 14° II 10'44 13° II 42'28 24° II 35'00 0° © 7° © 55'46 0° Ω 19° Ω 14'48 20° Ω 04'16 24° Ω 03'49 22° Ω 21'20 16° Ω 12'36 16° Ω 11'29 15° Ω 29'25 9° Ω 51'08 7° Ω 34'16 9° Ω 16'27 13° Ω 54'33 0° III 0° Ω 04'25 23° Ω 59'08 24° Ω 09'19	-1°13'49 1°13'36 1.44450 AU 20°52'46 3°07'56 3°07'22 0.68758 AU 23°28'26
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. asc. node superior conj minimum elong behind sun begin	16171 Jun 10 10:27 16171 Jun 26 18:08 16171 Jun 27 18:07 16171 Jun 11 04:23 16171 Jul 11 04:23 16171 Jul 18 07:55 16171 Jul 19 23:11 16171 Jul 22 23:24 16171 Jul 30 09:35 16171 Aug 03 05:27 16171 Aug 08 13:07 16171 Aug 08 14:22 16171 Aug 10 03:32 16171 Aug 10 03:32 16171 Aug 11 03:32 16171 Aug 11 13:24 16171 Aug 11 13:25 16171 Oct 10 16:15 16171 Oct 10 16:15 16171 Oct 10 16:15 16171 Oct 16 13:58 16171 Oct 16 07:47 16171 Oct 16 07:47 16171 Oct 16 20:08 16171 Oct 16 20:08 16171 Oct 24 20:03	3°\$03'28 10°\$12'57 28°\$28'16 0°\$\Omega\$20'08'46 0°\$\mathred{m}\$20'\text{M08'46} 0°\$\mathred{m}\$20'\text{M01'22} 5°\$\mathred{m}\$20'14 9°\$\mathred{m}\$30'31 8°\$\mathred{m}\$05'54 2°\$\mathred{m}\$08'19 2°\$\mathred{m}\$04'05 0°\$\mathred{m}\$40'49 30°\$\mathred{n}\$0\$'\text{M2'19} 23°\$\Omega\$26'20 0°\$\mathred{m}\$0'\text{M2'19} 23°\$\Omega\$26'20 0°\$\mathred{m}\$0'\text{M2'19} 22°\$\text{M04'33} 28°\$\text{M2}\$25'36 0°\$\mathred{m}\$10'\text{M16'37} 10°\$\mathred{m}\$10'16 11°\$\mathred{m}\$18'23 11°\$\mathred{m}\$16'37 10°\$\mathred{m}\$46'58 27°\$\mathred{m}\$51'35	1°47'46 1.45579 AU -0.6m 19°47'27 2°58'50 2°58'17 0.67892 AU 24°56'47 1.36986 AU	morning set desc. node superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj	16172 Apr 23 01:12 16172 Apr 24 02:40 16172 May 09 04:34 16172 May 11 11:58 16172 May 12 22:07 16172 May 21 07:13 16172 May 21 00:23 16172 May 27 16:45 16172 May 31 02:45 16172 May 31 02:45 16172 Jun 05 05:08 16172 Jun 05 05:08 16172 Jul 04 23:32 16172 Jul 13 08:32 16172 Jul 17 15:16 16172 Jul 17 15:16 16172 Jul 22 20:51 16172 Jul 22 20:51 16172 Jul 22 20:51 16172 Jul 23 09:19 16172 Jul 28 02:47 16172 Aug 00 08:43 16172 Aug 07 10:43 16172 Aug 13 00:02 16172 Aug 26 01:32 16172 Sep 14 19:39 16172 Sep 16 18:17 16172 Sep 20 18:28	0°8 23°831'44 27°832'18 0° II 14° II 10'44 13° II 42'28 24° II 35'00 0° © 7° © 55'46 0° Ω 19° Ω 14'48 20° Ω 04'16 24° Ω 03'49 22° Ω 21'20 16° Ω 12'36 16° Ω 11'29 15° Ω 29'25 9° Ω 51'08 7° Ω 34'16 9° Ω 16'27 13° Ω 54'33 0° II 0° Ω 04'25 23° Ω 59'08 24° Ω 09'19 0° II 21'31	-1°13'49 1°13'36 1.44450 AU 20°52'46 3°07'56 3°07'22 0.68758 AU 23°28'26 1.39390 AU -0°29'40
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. asc. node superior conj minimum elong behind sun begin behind sun end	16171 Jun 10 10:27 16171 Jun 26 18:08 16171 Jun 27 18:07 16171 Jun 11 04:23 16171 Jul 11 04:23 16171 Jul 18 07:55 16171 Jul 19 23:11 16171 Jul 22 23:24 16171 Jul 30 09:35 16171 Aug 03 05:27 16171 Aug 08 13:07 16171 Aug 08 14:22 16171 Aug 10 03:32 16171 Aug 10 03:32 16171 Aug 11 22:49 16171 Aug 11 32:49 16171 Aug 11 32:49 16171 Aug 11 3:24 16171 Aug 31 05:40 16171 Aug 31 13:02 16171 Aug 31 13:02 16171 Aug 31 13:02 16171 Oct 16 07:15 16171 Oct 10 16:15 16171 Oct 16 10:25 16171 Oct 16 13:58 16171 Oct 16 13:58 16171 Oct 16 07:47 16171 Oct 16 07:47 16171 Oct 16 07:47 16171 Oct 16 07:47	3°\$03'28 10°\$12'57 28°\$28'16 0°\$\Omega\$20'08'46 0°\$\Omega\$20'\Omega\$01'22 5°\$\Omega\$20'14 9°\$\Omega\$30'31 8°\$\Omega\$05'54 2°\$\Omega\$04'05 0°\$\Omega\$40'49 30°\$\Omega\$0 25°\$\Omega\$42'19 23°\$\Omega\$26'20 0°\$\Omega\$0 0°\$\Omega\$18'28 0°\$\Omega\$22'\Omega\$04'33 28°\$\Omega\$25'36 0°\$\Omega\$10'\Omega\$11'16'16 11°\$\Omega\$118'23 11°\$\Omega\$116'37 10°\$\Omega\$46'58	1°47'46 1.45579 AU -0.6m 19°47'27 2°58'50 2°58'17 0.67892 AU 24°56'47 1.36986 AU	morning set desc. node superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	16172 Apr 23 01:12 16172 Apr 24 02:40 16172 May 09 04:34 16172 May 11 11:58 16172 May 12 22:07 16172 May 21 07:13 16172 May 21 00:23 16172 May 27 16:45 16172 May 31 02:45 16172 Jun 05 05:08 16172 Jun 05 05:08 16172 Jul 04 23:32 16172 Jul 05 20:01 16172 Jul 13 08:32 16172 Jul 17 15:16 16172 Jul 22 20:51 16172 Jul 22 20:51 16172 Jul 22 20:51 16172 Jul 23 09:19 16172 Jul 28 02:47 16172 Jul 28 02:47 16172 Aug 02 08:43 16172 Aug 07 10:43 16172 Aug 13 00:02 16172 Aug 26 01:32 16172 Sep 14 19:39 16172 Sep 16 18:17 16172 Sep 28 12:00 16172 Sep 28 12:00 16172 Sep 28 12:00	0°8 23°831'44 27°832'18 0° II 14° II 10'44 13° II 42'28 24° II 35'00 0° © 7° © 55'46 0° Ω 19° Ω 14'48 20° Ω 04'16 24° Ω 03'49 22° Ω 21'20 16° Ω 12'36 16° Ω 11'29 15° Ω 29'25 9° Ω 51'08 7° Ω 34'16 9° Ω 16'27 13° Ω 54'33 0° III 0° Ω 04'25 23° Ω 59'08 24° Ω 09'19	-1°13'49 1°13'36 1.44450 AU 20°52'46 3°07'56 3°07'22 0.68758 AU 23°28'26 1.39390 AU -0°29'40

	16172 Oct 17 19:28	0° ⊼ ¹		evening max el	16173 Oct 07 04:33	20°M30'11	18°12'20
evening max el	16172 Oct 23 20:55	7° ∡ 56'38	18°43'17	retrograde	16173 Oct 14 10:23	24°M12'27	
retrograde	16172 Nov 01 04:39	12° × 709'05		evening set	16173 Oct 16 13:18	23°M53'56	
evening set	16172 Nov 03 02:38	11° х 56'30		desc. node	16173 Oct 21 05:09	21°M21'56	0050110
desc. node	16172 Nov 03 07:54	11° х 53'30 7° х 32'39	2021/22	inferior conj	16173 Oct 23 22:23	19°M08'31	
inferior conj minimum elong	16172 Nov 11 05:06 16172 Nov 10 22:57	7° x '32'39 7° x '43'59	-2°31'32 2°28'29	minimum elong min. Earth dist.	16173 Oct 23 20:29 16173 Oct 27 04:20	19°M.12'36 16°M.21'49	0°51'03 0.59137 AU
min. Earth dist.	16172 Nov 10 22.37 16172 Nov 14 06:57	5° 1 7'20	0.57021 AU	morning rise	16173 Oct 27 04.20 16173 Oct 31 00:17	13°M37'56	0.39137 AU
morning rise	16172 Nov 14 00:37	2° x ⁷ 37'43	0.37021 AU	direct	16173 Nov 06 12:05	11°M43'07	
direct	16172 Nov 24 17:05	1° × ⁷ 08'57		morning max el	16173 Nov 20 18:55	19°M24'57	27°36'58
morning max el	16172 Dec 08 21:47	8°×731'23	26°35'39	morning max or	16173 Nov 29 19:30	0° ∡ 7	27 3030
	16172 Dec 25 01:02	0°ਰ		asc. node	16173 Dec 15 18:14	26° х 01'44	
asc. node	16172 Dec 28 21:10	6° පි 42'19			16173 Dec 17 19:15	0°ප	
morning set	16173 Jan 07 01:56	25° る 04'49		morning set	16173 Dec 22 09:00	9° ට 23'39	
	16173 Jan 09 08:08	0° ≈					
				superior conj	16173 Dec 29 07:31	24° る 38'24	1°35'22
superior conj	16173 Jan 13 20:06	10° ≈ 01'06	1°38'08	minimum elong	16173 Dec 29 06:32	24° る 32'51	1°36'00
minimum elong	16173 Jan 13 20:08	10° ≈ 01'19	1°38'45	max. Earth dist.	16173 Dec 28 20:13	23° る 35'04	1.30992 AU
max. Earth dist.	16173 Jan 14 12:24	11° ≈ 32′13	1.31206 AU		16173 Dec 31 16:58	0° ≈	
evening rise	16173 Jan 20 18:26	25° ≈ 11'49		evening rise	16174 Jan 05 01:00	9° ≈ 31'52	
	16173 Jan 23 01:52	0° ∀			16174 Jan 15 09:57	0° ∀	
desc. node	16173 Jan 30 07:26	13° ¥ 52'37		desc. node	16174 Jan 17 04:14	3° ¥ 03'32	
	16173 Feb 09 07:07	0° Υ		evening max el	16174 Feb 03 03:37	25°) 48'38	26°28'18
evening max el	16173 Feb 21 03:33	14° Y 18'58	27°19'58	_	16174 Feb 08 08:46	0° Υ	
retrograde	16173 Mar 07 04:04	21° Y '39'43		retrograde	16174 Feb 17 03:27	2° Y 57'59	
evening set	16173 Mar 13 21:23	19° Y 38'32	0.60540.477	evening set	16174 Feb 23 11:35	1° Υ 20'31	
min. Earth dist.	16173 Mar 17 17:44	16° Y 52'11	0.60549 AU	· r d r d	16174 Feb 25 19:47	30° ₹ ₩	0.50210.411
inferior conj	16173 Mar 20 22:30	14° Υ 07'28 13° Υ 58'28		min. Earth dist.	16174 Feb 27 17:02	28°\(\frac{42}{56}\) 26°\(\frac{42}{32}\)	
minimum elong	16173 Mar 21 02:40	9° Y 55'22	1°50'57	inferior conj minimum elong	16174 Mar 02 20:34		3°19'59
asc. node morning rise	16173 Mar 26 18:40 16173 Mar 28 11:22	9° Υ 16'27		morning rise	16174 Mar 03 04:18 16174 Mar 11 00:26	20° X 08'06 21° X 53'04	3-1939
direct	16173 Mar 30 13:19	9 1 10 27 8° Υ 58'46		direct	16174 Mar 12 23:28	21° X 39'55	
morning max el	16173 Apr 06 16:54	12° Υ 33'24	17°56'41	asc. node	16174 Mar 13 15:58	21° X 41'35	
morning max er	16173 Apr 18 10:50	0°8	17 30 41	morning max el	16174 Mar 21 02:58	25°\(\dagger)41'10	18°27'01
morning set	16173 Apr 22 07:00	6° 8 57'28		morning max or	16174 Mar 24 19:06	0°Υ	10 27 01
desc. node	16173 Apr 28 08:45	17° 8 58'57		morning set	16174 Apr 05 23:00	20° Y ′59'24	
	ī			Ü	16174 Apr 10 16:12	0° ႘	
superior conj	16173 May 02 18:57	25° 8 48'17	-0°35'50		•		
minimum elong	16173 May 02 15:49	25° 8 34'41	0°35'52	superior conj	16174 Apr 15 03:58	8° 8 23'35	0°00'32
	16173 May 05 05:18	$\Pi^{\circ}0$		minimum elong	16174 Apr 15 03:58	8° 8 23'37	0°00'09
max. Earth dist.	16173 May 10 06:41	8° Ⅱ 29'25	1.42735 AU	behind sun begin	16174 Apr 14 20:48	7° 8 50'38	
evening rise	16173 May 16 04:00	17° Ⅱ 59'45		behind sun end	16174 Apr 15 11:08	8° 8 56'31	
	16173 May 23 22:37	0 \circ \odot		desc. node	16174 Apr 15 05:31	8° 8 30'43	
	16173 Jun 14 19:40	0 \circ Ω		max. Earth dist.	16174 Apr 22 15:56	21° 8 43'50	1.40609 AU
evening max el	16173 Jun 17 18:09	3° Ω 08'56	22°08'31	evening rise	16174 Apr 26 23:02	28° 8 58'14	
asc. node	16173 Jun 22 16:54	7° Ω 12'55			16174 Apr 27 14:01	0°II	
retrograde	16173 Jun 27 06:25	8° Ω 42'18			16174 May 17 10:22	0°©	22020127
evening set	16173 Jul 02 00:32	6° Ω 42'59	2907101	evening max el	16174 May 31 09:03	17°503'43	23°29'37
inferior conj	16173 Jul 07 06:33 16173 Jul 07 05:55	0° Ω 24'28 0° Ω 26'38		asc. node retrograde	16174 Jun 09 13:52 16174 Jun 11 01:56	23°5511'07	
minimum elong min. Earth dist.	16173 Jul 07 05:44	0° Ω 27'18	0.69139 AU	evening set	16174 Jun 16 07:39	23°520'48 21°506'55	
min. Earm dist.	16173 Jul 07 03.44 16173 Jul 07 13:33	30°R95	0.09139 AU	min. Earth dist.	16174 Jun 21 02:28	15°\$28'29	0.69028 AU
morning rise	16173 Jul 12 11:08	24°909'48		inferior conj	16174 Jun 21 16:20	14°9540'47	2°53'36
direct	16173 Jul 17 04:49	22°S10'09		minimum elong	16174 Jun 21 14:53	14°9545'46	2°52'40
desc. node	16173 Jul 25 08:00	26°527'56		morning rise	16174 Jun 26 22:06	8°934'18	2 32 10
morning max el	16173 Jul 26 13:27	27° © 38'52	22°00'36	direct	16174 Jul 01 03:38	6°953'59	
	16173 Jul 28 18:38	$0^{\circ}\Omega$		morning max el	16174 Jul 09 08:10	11° © 33'55	20°40'32
	16173 Aug 19 15:20	0° m/y		desc. node	16174 Jul 12 05:13	14°5540'32	
morning set	16173 Aug 28 05:38	13° m 22'42			16174 Jul 23 16:58	$0^{\circ}\Omega$	
max. Earth dist.	16173 Sep 02 21:11	-	1.41728 AU	morning set	16174 Aug 07 19:24	22° Ω 38'12	
	16173 Sep 07 06:38	0∘ ⊽			16174 Aug 12 12:27	0° m	
				max. Earth dist.	16174 Aug 16 06:06	5° m 57'05	1.43725 AU
superior conj	16173 Sep 10 15:28	5° ≏ 51'01	-1°06'35				
minimum elong	16173 Sep 10 20:54	6° £ 14'53	1°05'46	superior conj	16174 Aug 22 20:47	16° Mp 46'08	
asc. node	16173 Sep 18 17:47	20° ₽ 27'56		minimum elong	16174 Aug 23 04:34	17° m 18'35	1°40'23
evening rise	16173 Sep 21 06:00	25° Ω 06'00			16174 Aug 30 15:24	0° ⊽	
	16173 Sep 23 21:46	0° M		evening rise	16174 Sep 04 03:02	7° ≏ 50'25	

asc. node	16174 Sep 05 14:29	10° ≏ 26'05			16175 Aug 05 03:44	0° m)	
asc. node	16174 Sep 03 14:29 16174 Sep 17 15:27	0°M		evening rise	16175 Aug 03 03:44 16175 Aug 17 03:59	رانا 19° m) 42'28	
evening max el	16174 Sep 17 13:27 16174 Sep 20 17:43	3°M236'17	18°01'19	asc. node	16175 Aug 23 11:11	0° Ω 11'28	
retrograde	16174 Sep 27 08:09	7° ML 01'18	10 01 19	asc. node	16175 Aug 23 11:11 16175 Aug 23 08:24	0° <u>₽</u>	
evening set	16174 Sep 29 18:33	6°M33'02		evening max el	16175 Sep 04 08:39	0 — 17° ≏ 05'44	18°08'54
inferior conj	16174 Oct 06 11:08	1°ML28'04	0°30'28	retrograde	16175 Sep	20° ≏ 26'38	10 00 54
minimum elong	16174 Oct 06 12:04	1°M25'47	0°30'25	evening set	16175 Sep 13 12:24	19° ≏ 45'12	
minimum ciong	16174 Oct 07 22:31	30°R ≏	0 30 23	inferior conj	16175 Sep 19 15:25	14° £ 23'09	1°33'42
desc. node	16174 Oct 08 02:27	29° £ 50'14		minimum elong	16175 Sep 19 17:34	14° ⊆ 17'09	1°33'07
min. Earth dist.	16174 Oct 09 11:38	28° £ 29'44	0.61429 AU	min. Earth dist.	16175 Sep 22 04:57	11° ≏ 32'55	0.63646 AU
morning rise	16174 Oct 13 02:42	25° £ 29'47	0.01.27110	desc. node	16175 Sep 24 23:47	8° Ω 49'56	0.03010110
direct	16174 Oct 19 19:01	23° £ 12'46		morning rise	16175 Sep 25 20:45	8° ഫ 07'21	
	16174 Nov 01 19:08	0° M .		direct	16175 Oct 02 11:49	5° ჲ 35'40	
morning max el	16174 Nov 02 23:29	1°ML08'06	27°59'11	morning max el	16175 Oct 16 08:42	13° ≏ 34'36	27°43'19
C	16174 Nov 24 01:08	0° ∡ ¹		Ü	16175 Oct 29 15:15	0°M₊	
asc. node	16174 Dec 02 15:15	15° ∡ ¹42'36			16175 Nov 16 14:40	0° ∡ ¹	
morning set	16174 Dec 06 10:46	23° ∡ ¹24'22		asc. node	16175 Nov 19 12:13	5° ∡ ³38'30	
C	16174 Dec 09 13:33	ರ°0		morning set	16175 Nov 20 04:51	7° ∡ ¹01'26	
max. Earth dist.	16174 Dec 12 01:43	5° る 27'43	1.31330 AU	max. Earth dist.	16175 Nov 25 01:08	17° ∡ *02'14	1.32238 AU
superior conj	16174 Dec 13 17:46	9° ට 09'10	1°26'33	superior conj	16175 Nov 28 00:54	23° ∡ °28′06	1°11'37
minimum elong	16174 Dec 13 15:56	8°₹58'58	1°27'06	minimum elong	16175 Nov 27 22:34	23° ∡ 15′28	1°11'59
evening rise	16174 Dec 20 10:35	23° る 57'51			16175 Dec 01 00:36	ರ°ರ	
	16174 Dec 23 06:44	0° ≈		evening rise	16175 Dec 04 21:23	8° ප 25'31	
desc. node	16175 Jan 04 01:04	21° ≈ 34′03			16175 Dec 15 22:00	0° ≈	
	16175 Jan 10 00:11	0°)		desc. node	16175 Dec 21 21:59	9° ≈ 09'41	
evening max el	16175 Jan 15 19:08	6° ∺ 25'59	25°05'40	evening max el	16175 Dec 28 05:04	16° ≈ 28′09	23°24'41
retrograde	16175 Jan 29 14:55	13°) €21'46		retrograde	16176 Jan 10 12:52	23° ≈ 03'44	
evening set	16175 Feb 04 04:47	12° 升 11′56		evening set	16176 Jan 14 23:31	22° ≈ 21′02	
min. Earth dist.	16175 Feb 09 07:30	9° ∺ 27'36	0.56354 AU	min. Earth dist.	16176 Jan 21 15:56	19° ≈ 11'37	0.54958 AU
inferior conj	16175 Feb 11 21:44	7°) 46′59	-4°49'39	inferior conj	16176 Jan 23 02:47	18° ≈ 21'04	-5°49'55
minimum elong	16175 Feb 12 07:09	7°) €31'46	4°46'52	minimum elong	16176 Jan 23 08:13	18° ≈ 13′10	5°48'48
morning rise	16175 Feb 20 12:07	3°) €38'45		morning rise	16176 Jan 31 18:20	14° ≈ 28'39	
direct	16175 Feb 22 14:30	3°) €26'14		direct	16176 Feb 03 10:39	14° ≈ 11'18	
asc. node	16175 Feb 28 13:20	5°) 14'14		morning max el	16176 Feb 14 13:35	19° ≈ 34'11	20°34'06
morning max el	16175 Mar 04 03:11	8° ∺ 04'56	19°18'59	asc. node	16176 Feb 15 10:40	20° ≈ 27′06	
	16175 Mar 18 06:31	0 ° $\mathbf{\gamma}$			16176 Feb 22 15:26	0° ∀	
morning set	16175 Mar 21 00:12	5° Y 23'54		morning set	16176 Mar 04 07:22	20° 米 01′50	
					16176 Mar 09 02:49	0° Υ	
superior conj	16175 Mar 29 05:47	21° Υ 43'03	0°32'15			••	
minimum elong	16175 Mar 29 07:38	21° Y 52'02	0°31'44	superior conj	16176 Mar 11 20:13	5° Y 35′19	0°57'58
desc. node	16175 Apr 02 02:14	29° Y 02'58		minimum elong	16176 Mar 11 22:44	5° Y 48'07	0°57'34
	16175 Apr 02 14:29	0°8		max. Earth dist.	16176 Mar 17 05:23	16° Y 14'43	1.36097 AU
max. Earth dist.	16175 Apr 04 21:53	4° 8 14'08	1.38313 AU	desc. node	16176 Mar 18 22:56	19° Y ′32′20	
evening rise	16175 Apr 08 15:05	10° 8 50'14		evening rise	16176 Mar 21 01:40	23° Y ′28'10	
	16175 Apr 20 08:12	0°II			16176 Mar 24 17:03	0° 8	
	16175 May 12 23:14	0.02 0.02	24040440		16176 Apr 13 00:32	0°II	2.00114.5
evening max el	16175 May 13 22:30	0°958'43	24°49'49	evening max el	16176 Apr 25 12:10	14° ∏ 51'17 22° ∏ 08'41	26°01'45
retrograde	16175 May 25 17:53	7°952'00		retrograde	16176 May 08 05:05		
asc. node	16175 May 27 10:56	7°939'44		asc. node	16176 May 13 08:04	20° Ⅱ 24'32	
evening set	16175 May 31 10:58	5°927'07	0.60420.411	evening set	16176 May 14 08:43	19° Ⅱ 37'27	0.67262 ATT
min. Earth dist.	16175 Jun 04 21:26	0°525'46 30°R∏	0.68428 AU	min. Earth dist.	16176 May 18 12:30	15° Ⅱ 12'07 13° Ⅱ 07'26	0.67362 AU 1°56'25
::	16175 Jun 05 05:14		2020127	inferior conj	16176 May 20 04:21		
inferior conj	16175 Jun 06 00:17	28° Ⅱ 56'42 29° Ⅱ 03'25	2°30'37	minimum elong	16176 May 20 02:11	13° Ⅱ 14'15 7° Ⅱ 20'57	1°55'07
minimum elong morning rise	16175 Jun 05 22:16 16175 Jun 11 09:48	29° II 03'25 22° II 59'32	2°29'27	morning rise direct	16176 May 25 20:21 16176 May 29 03:38	/°Щ20'57 6°Щ18'48	
direct	16175 Jun 15 03:47	21° II 38'51		morning max el	16176 Jun 04 18:28	9° П 51'19	18°41'23
morning max el	16175 Jun 22 09:49	25° II 39'02	19°33'12	desc. node	16176 Jun 14 23:27	23° Ⅱ 07'26	10 71 23
morning max ci	16175 Jun 26 07:04	23 H 3902	17 55 12	desc. Houc	16176 Jun 19 12:04	0°95	
desc. node	16175 Jun 29 02:22	0 ᢒ 3°937'41		morning set	16176 Jun 26 13:37	10°958'40	
greatest brilliancy	16175 Jul 05 03:43	12° © 11'39	-0.6m	morning set	16176 Jul 08 18:30	0°Ω	
51 carest offiliality	16175 Jul 16 23:23	0°Ω	0.0111	max. Earth dist.	16176 Jul 11 15:41	4° Ω 29'37	1.45923 AU
morning set	16175 Jul 17 23:27	1° Ω 32'12		max. Darm dist.	101/0341 11 13.71	. 062737	1.15725 AU
max. Earth dist.	16175 Jul 29 20:44	19° Ω 59'47	1.45168 AU	superior conj	16176 Jul 12 15:39	6° Ω 03'07	-2°14'15
Zarur diot.	-01/0 Jul 2/ 20.77	1) UGD) T/	1	minimum elong	16176 Jul 12 15:03	6° Ω 00'46	
superior conj	16175 Aug 03 02:52	26° Ω 44'23	-2°05'58		16176 Jul 27 20:21	0° m)	-
minimum elong	16175 Aug 03 09:05	27° Ω 09'12		evening rise	16176 Jul 28 04:24	0° mp 32'01	
	00.00	550712					

araataat brillianay	16176 Aug 02 12:26	100 m 41151	0.0	minimum alana	16177 Jun 21 10:21	1.49@52120	2002144
greatest brilliancy	16176 Aug 03 13:36 16176 Aug 09 07:54	10° Mp 41'51	-0.9m	minimum elong	16177 Jun 21 18:31	14° © 52'28 19° © 10'41	2°02'44
asc. node	-	19° ™ 38'29 0° ₽		max. Earth dist.	16177 Jun 24 12:30		1.45923 AU
	16176 Aug 17 02:40		10024100		16177 Jul 01 11:33	0°N	
evening max el	16176 Aug 17 22:07	0° Ω 50'00	18°34'08	evening rise	16177 Jul 08 05:07	10° Ω 24'36	0.7
retrograde	16176 Aug 24 10:06	4° £ 19'52		greatest brilliancy	16177 Jul 20 07:24	28° Ω 52'52	-0.7m
evening set	16176 Aug 27 14:24	3° Ω 22'39		1	16177 Jul 21 01:29	0° m)	
	16176 Aug 31 09:44	30°R, Mp		asc. node	16177 Jul 27 04:39	8° Mp 40'36	
inferior conj	16176 Sep 02 07:17	27° m 45'30	2°18'45	evening max el	16177 Aug 01 07:31	14° Mp 42'11	19°16'09
minimum elong	16176 Sep 02 09:33	27° m/38'35	2°18'06	retrograde	16177 Aug 08 07:15	18° m 34'07	
min. Earth dist.	16176 Sep 04 07:21	25° m 19'28	0.65608 AU	evening set	16177 Aug 11 21:20	17° m 19'31	
morning rise	16176 Sep 08 03:32	21° m 20'58		inferior conj	16177 Aug 17 07:28	11°Mp28'52	2°48'06
desc. node	16176 Sep 10 21:08	19° m 33'54		minimum elong	16177 Aug 17 09:11	11°Mp23'14	2°47'31
direct	16176 Sep 14 12:41	18° m 43'42		min. Earth dist.	16177 Aug 18 17:25	9° m)38'11	0.67187 AU
morning max el	16176 Sep 27 19:51	26° m 33'08	26°55'30	morning rise	16177 Aug 22 20:25	5° mg 02'08	
	16176 Oct 01 01:01	0∘ ⊽		direct	16177 Aug 28 20:15	2° m/27'45	
_	16176 Oct 22 05:47	0° ™		desc. node	16177 Aug 28 18:29	2° TD 27'46	
morning set	16176 Nov 02 12:18	20°M07'27		morning max el	16177 Sep 10 07:14	9° m 53'19	25°44'29
asc. node	16176 Nov 05 09:05	25° ™ 43'37			16177 Sep 26 06:03	0∘ ⊽	
max. Earth dist.	16176 Nov 06 15:31	28°M16'01	1.33716 AU		16177 Oct 14 19:20	0° M	
	16176 Nov 07 12:01	0° ∡		morning set	16177 Oct 16 05:44	2°M35'41	
				max. Earth dist.	16177 Oct 19 20:45	9° ™ 21′05	1.35693 AU
superior conj	16176 Nov 11 02:33	7° ∡ ¹28'33	0°50'29	asc. node	16177 Oct 23 05:54	15° M 54'12	
minimum elong	16176 Nov 11 00:19	7° ∡ 16'47	0°50'44				
evening rise	16176 Nov 18 07:30	22° ∡ ¹49'41		superior conj	16177 Oct 25 20:04	21°M04'33	0°23'21
	16176 Nov 21 18:16	0° ろ		minimum elong	16177 Oct 25 18:44	20° ™ 57'48	0°23'37
desc. node	16176 Dec 07 18:58	25° る 30'24			16177 Oct 30 04:37	0° ∡ ¹	
evening max el	16176 Dec 08 17:25	26° る 27'26	21°43'06	evening rise	16177 Nov 02 14:58	7° ∡ 06'11	
	16176 Dec 13 02:09	0° ≈			16177 Nov 15 01:50	0°ප	
retrograde	16176 Dec 20 23:50	2° ≈ 31'13		evening max el	16177 Nov 20 17:07	6° る 59'34	20°16'03
evening set	16176 Dec 24 03:55	2° ≈ 08'34		desc. node	16177 Nov 24 15:59	10° る 13'05	
	16176 Dec 29 16:01	30°Ŗる		retrograde	16177 Dec 01 11:00	12° る 20'36	
inferior conj	16177 Jan 01 18:50	28° る 18'31	-5°57'48	evening set	16177 Dec 03 16:38	12° る 07'48	
minimum elong	16177 Jan 01 15:06	28° る 23'43	5°56'52	inferior conj	16177 Dec 12 11:48	8° る 11'52	-5°04'59
min. Earth dist.	16177 Jan 01 21:12	28° る 15'11	0.54385 AU	minimum elong	16177 Dec 12 02:04	8° පි 26'17	5°01'55
morning rise	16177 Jan 10 02:54	24° る 30'30		min. Earth dist.	16177 Dec 14 02:54	7° る 13'56	0.54754 AU
direct	16177 Jan 13 19:20	24°る00'50		morning rise	16177 Dec 20 10:54	4° る 09'24	
	16177 Jan 26 06:13	0° ≈		direct	16177 Dec 25 04:57	3° る 20'38	
morning max el	16177 Jan 26 08:54	0° ≈ 06′23	22°11'01	morning max el	16178 Jan 07 18:28	10° る 01'43	24°00'37
asc. node	16177 Feb 01 07:59	7° ≈ 02'05		asc. node	16178 Jan 19 05:14	24° る 41'10	
	16177 Feb 14 11:19	0° ∀			16178 Jan 22 09:18	0° ≈	
morning set	16177 Feb 16 17:58	4°) 45′18		morning set	16178 Feb 01 05:54	19° ≈ 28'16	
					16178 Feb 06 01:54	0° ∀	
superior conj	16177 Feb 23 19:41	19° ∺ 50′02	1°17'17				
minimum elong	16177 Feb 23 22:01	20°) €02'23	1°17'12	superior conj	16178 Feb 08 01:20	4° ₩ 19'12	1°30'15
max. Earth dist.	16177 Feb 27 18:54	28°) €04'41	1.34150 AU	minimum elong	16178 Feb 08 02:58	4°) €28'05	1°30'30
	16177 Feb 28 17:40	0 ° Υ		max. Earth dist.	16178 Feb 10 15:58	9°) 57′23	1.32612 AU
evening rise	16177 Mar 04 03:08	6° Ƴ 41'38		evening rise	16178 Feb 15 16:09	20°) €21'58	
desc. node	16177 Mar 05 19:36	9° Ƴ 54'29		desc. node	16178 Feb 20 16:16	0° Y 04'45	
	16177 Mar 17 09:18	9° 8			16178 Feb 20 15:15	0 ° Υ	
evening max el	16177 Apr 08 02:04	28° 8 33'38	26°57'52		16178 Mar 11 09:07	$0^{\circ}S$	
	16177 Apr 09 14:57	Π $^{\circ}0$		evening max el	16178 Mar 21 14:55	11° 8 53'45	27°30'43
retrograde	16177 Apr 21 10:28	6° Ⅱ 03'10		retrograde	16178 Apr 04 09:10	19° 8 25'47	
evening set	16177 Apr 27 22:59	3° Ⅲ 31'11		evening set	16178 Apr 11 03:29	16° 8 59'41	
asc. node	16177 Apr 30 05:16	1° Ⅱ 28'15		min. Earth dist.	16178 Apr 14 22:27	13° 8 39'01	0.63988 AU
	16177 May 01 14:21	30° ₹ 8		asc. node	16178 Apr 17 02:30	11° 8 23'24	
min. Earth dist.	16177 May 01 21:31	29° 8 39'59	0.65863 AU	inferior conj	16178 Apr 17 15:10	10° 8 50'03	0°09'56
inferior conj	16177 May 04 02:14	27° 8 07'43	1°09'56	minimum elong	16178 Apr 17 14:53	10° 8 50'48	0°09'24
minimum elong	16177 May 04 00:33	27° 8 12'36	1°08'47	transit middle	16178 Apr 17 14:53	10° 8 50'48	0°09'24
morning rise	16177 May 10 03:33	21° 8 33'42		transit begin	16178 Apr 17 12:21	10° 8 57'26	
direct	16177 May 13 01:02	20° 8 48'00		transit end	16178 Apr 17 17:24	10° 8 44'11	
morning max el	16177 May 19 08:40	24° 8 05'36	18°06'21	morning rise	16178 Apr 24 04:36	5° 8 30'51	
	16177 May 24 07:12	Π °0		direct	16178 Apr 26 17:18	4° 8 58'46	
desc. node	16177 Jun 01 20:27	13° Ⅱ 01'11		morning max el	16178 May 03 01:57	8° 8 13'49	17°48'32
morning set	16177 Jun 07 04:28	21° Ⅱ 37'25			16178 May 17 20:01	Π $\circ 0$	
	16177 Jun 12 09:19	0 \circ \odot		morning set	16178 May 19 22:18	3° Ⅱ 32'33	
				desc. node	16178 May 19 17:22	3° Ⅱ 11'46	
superior conj	16177 Jun 22 01:49	15° © 21'04	-2°02'27				

superior conj	16178 Jun 02 01:38	25° Ⅱ 19'55	-1°34'21	morning set	16179 May 02 14:34	16° 8 30'21	
minimum elong	16178 Jun 01 17:19	24° Ⅱ 46′19	1°34'10	desc. node	16179 May 06 14:14	23° 8 34'00	
	16178 Jun 04 23:28	0°€			16179 May 10 06:41	Π \circ 0	
max. Earth dist.	16178 Jun 07 08:12	3°5945'04	1.45181 AU				
evening rise	16178 Jun 17 16:21	19° © 48'32		superior conj	16179 May 13 23:59	6° Ⅲ 21′28	-0°57'50
	16178 Jun 24 09:47	$0^{\circ}\Omega$		minimum elong	16179 May 13 18:41	5° Ⅱ 59'05	0°57'41
asc. node	16178 Jul 14 01:26	27° Ω 08'08		max. Earth dist.	16179 May 21 00:12	17° Ⅱ 56'19	1.43780 AU
evening max el	16178 Jul 15 11:05	28° Ω 36′06	20°13'36	evening rise	16179 May 28 06:51	29° Ⅲ 27'51	
	16178 Jul 16 23:02	0° m y			16179 May 28 15:08	0 \circ \odot	
retrograde	16178 Jul 23 06:14	3° m 01'57			16179 Jun 18 01:48	$0^{\circ}\Omega$	
evening set	16178 Jul 27 06:40	1° m 29'31		evening max el	16179 Jun 28 08:37	12° Ω 30′03	21°23'51
	16178 Jul 28 21:49	30° R Ω		asc. node	16179 Jun 30 22:16	14° Ω 49'46	
inferior conj	16178 Aug 01 13:06	25° Ω 26'46	3°04'06	retrograde	16179 Jul 07 05:03	17° Ω 38'09	
minimum elong	16178 Aug 01 13:59	25° Ω 23'47	3°03'33	evening set	16179 Jul 11 16:29	15° Ω 48'23	
min. Earth dist.	16178 Aug 02 09:15	24° Ω 18′02	0.68321 AU	inferior conj	16179 Jul 16 21:57	9° Ω 35'02	3°08'25
morning rise	16178 Aug 06 20:56	19° Ω 02'19		minimum elong	16179 Jul 16 21:52	9° Ω 35'20	3°07'48
direct	16178 Aug 12 09:35	16° Ω 37'41		min. Earth dist.	16179 Jul 17 04:44	9° Ω 11'24	0.68982 AU
desc. node	16178 Aug 15 15:49	17° Ω 19'48		morning rise	16179 Jul 22 03:00	3° Ω 15'59	
morning max el	16178 Aug 23 18:18	23° Ω 25′29	24°19'39	direct	16179 Jul 27 03:39	1° Ω 06'06	
	16178 Aug 29 14:23	0° m)		desc. node	16179 Aug 02 13:09	3° Ω 47'09	
	16178 Sep 19 14:33	0∘ <u>v</u>		morning max el	16179 Aug 06 06:06	7° Ω 05'18	22°50'24
morning set	16178 Sep 28 05:03	14° ≏ 16'26		8	16179 Aug 24 01:55	0° m)	
max. Earth dist.	16178 Oct 01 20:05	20° ₽ 39'27	1.38003 AU	morning set	16179 Sep 09 06:15	25° m/00'33	
man. Bartin dist.	16178 Oct 06 22:03	0°M	1.50005110	morning sec	16179 Sep 12 06:23	0° 0	
	10170 001 00 22.03	0 110		max. Earth dist.	16179 Sep 12 00:28	ა — 2° ჲ 36'48	1.40410 AU
superior conj	16178 Oct 09 02:04	4°M07'28	-0°09'10	max. Earth dist.	10177 Sep 13 17.20	2 -30 .0	1.10110110
minimum elong	16178 Oct 09 02:40	4°M10'20	0°08'42	superior conj	16179 Sep 21 16:31	16° ≏ 28'09	-0°45'19
behind sun begin	16178 Oct 09 02:40	3°M42'24	0 00 42	minimum elong	16179 Sep 21 10:31 16179 Sep 21 20:03	16° 2 44'13	0°44'35
behind sun end	16178 Oct 09 08:29	4°M38'19		asc. node	16179 Sep 26 23:20	26° £ 15'16	0 44 33
asc. node	16178 Oct 10 02:39	6°M05'57		asc. node	16179 Sep 28 22:52	0°M	
evening rise	16178 Oct 10 02.39	21°M08'24		evening rise	16179 Sep 28 22:32 16179 Oct 01 11:33	4°M48'33	
evening rise	16178 Oct 17 17:20 16178 Oct 22 06:11	0° x ⁷		evening rise	16179 Oct 16 21:29	4 11640 33 0° √ 1	
evening max el	16178 Nov 03 07:25	18° ∡ 21'47	19°10'39	evening max el	16179 Oct 16 21:29 16179 Oct 17 10:01	0° ∡ ¹32'19	18°27'36
desc. node	16178 Nov 11 13:05	22° x 54'58	19 10 39	•	16179 Oct 25 05:33	4° x ¹ 30'20	18 27 30
retrograde		22° x '3438 22° x '57'36		retrograde	16179 Oct 23 05:33 16179 Oct 27 05:02	4°×7'15'49	
evening set	16178 Nov 12 10:55 16178 Nov 14 08:19	22° x '3/30 22° x '46'38		evening set desc. node	16179 Oct 27 03:02 16179 Oct 29 10:18	3° x ¹ 27'37	
Č	16178 Nov 14 08.19	18° 🗷 34'40	2021124	desc. node	16179 Nov 03 15:40	30°RM	
inferior conj minimum elong	16178 Nov 22 19:23 16178 Nov 22 10:52	18° × 34 40		: <i>c</i> :	16179 Nov 03 13.40 16179 Nov 04 00:16	29°M43'06	1047155
min. Earth dist.	16178 Nov 25 12:46		0.55990 AU	inferior conj	16179 Nov 04 00.16 16179 Nov 03 20:02	29 11643 06 29°M51'26	
			0.55990 AU	minimum elong			
morning rise	16178 Nov 30 10:55	14°×700'34		min. Earth dist.	16179 Nov 07 05:31		0.57879 AU
direct	16178 Dec 06 02:08	12° 🗷 47'16	25045122	morning rise	16179 Nov 11 07:36	24°M32'08	
morning max el	16178 Dec 20 04:05	19° ∡ 757'10	25°45'22	direct	16179 Nov 17 14:01	22°M51'42	
1	16178 Dec 28 17:25	0°る			16179 Dec 01 10:18	0° ⊼ ¹	27006117
asc. node	16179 Jan 06 02:25	13° そ 08'52		morning max el	16179 Dec 01 20:18	0° ∡ '23'57	2/*061/
	16179 Jan 14 19:12	0° ≈		,	16179 Dec 22 18:51	0°る	
morning set	16179 Jan 16 17:22	4° ≈ 05'52		asc. node	16179 Dec 23 23:33	2°る12'14	
	17170 1 22 10 10	100 - 56120	1027101	morning set	16180 Jan 01 02:33	18° る 32'36	
superior conj	16179 Jan 23 10:49	18°≈56'29	1°37'01		16180 Jan 06 07:37	0° ≈	
minimum elong	16179 Jan 23 11:28	19° ≈ 00'05	1°37'32		16100 1 07 22 04	20 2511.7	1007140
max. Earth dist.	16179 Jan 24 19:27	21°≈57'16	1.31561 AU	superior conj	16180 Jan 07 22:04	3°≈35'17	
	16179 Jan 28 12:08	0°){		minimum elong	16180 Jan 07 21:39		1°38'21
evening rise	16179 Jan 30 13:52	4°) €22'33		max. Earth dist.	16180 Jan 08 02:31	4°≈00'10	1.31040 AU
desc. node	16179 Feb 07 12:57	19°) € 57'52		evening rise	16180 Jan 14 17:48	18° ≈ 36'51	
	16179 Feb 13 08:00	0°Υ 24° 0 02227	27022112		16180 Jan 20 07:28	0°) {	
evening max el	16179 Mar 04 00:42	24° Y ′39'27	27°33'43	desc. node	16180 Jan 25 09:41	9°) €26'21	
	16179 Mar 10 22:34	0° 8			16180 Feb 08 03:08	0°Υ ••••••••••••••••••••••••••••••••••••	27002110
retrograde	16179 Mar 18 00:15	2° 8 06'44		evening max el	16180 Feb 14 05:04	6° Ƴ 39'03	27°02'19
evening set	16179 Mar 24 19:38	29° Y ′54′06		retrograde	16180 Feb 28 06:09	13°Y55'58	
	16179 Mar 24 15:56	30°₹ Υ	0.61020.477	evening set	16180 Mar 05 20:17	12° Υ '04'20	0.50555 : *-
min. Earth dist.	16179 Mar 28 13:58	26° Y ′57'46	0.61838 AU	min. Earth dist.	16180 Mar 09 19:21	9° Υ 23'04	0.59577 AU
inferior conj	16179 Mar 31 15:55	24°Υ06'25		inferior conj	16180 Mar 13 00:46	6°Υ46'26	
minimum elong	16179 Mar 31 18:09		1°03'24	minimum elong	16180 Mar 13 06:29	6° Υ 34'49	2°28'05
asc. node	16179 Apr 03 23:46	21°Υ13'32		morning rise	16180 Mar 20 20:16	2°Υ04'26	
morning rise	16179 Apr 07 19:52	19° ℃ 04'36		asc. node	16180 Mar 20 21:06	2°Υ03'54	
direct	16179 Apr 10 01:02	18° ℃ 42'47		direct	16180 Mar 22 20:16	1° Y 49'13	
morning max el	16179 Apr 16 19:17	22° Y ′07'06	17°48'26	morning max el	16180 Mar 30 09:05	5° Υ 34'13	18°07'06
	16179 Apr 22 22:09	0°8		morning set	16180 Apr 14 23:22	0° 8 12'44	

Section Sect		16180 Apr 14 20:38	0°8		morning max el	16181 Mar 13 15:24	18° ¥ 23'50	18°46'18
	desc. node	16180 Apr 22 11:02	14° 8 02'51		. ,	16181 Mar 22 01:41	0°Υ 1.4° 99 2.510.5	
Mathematical 1618 0 Apr	superior coni	16190 Apr 24 21:12	180₩24120	0°20'00	morning set			
Mark		•				10181 Apr 00 21.03	0.0	
Pare Part 1618 May 01 1539 175	minimum ciong	-		0 20 12	superior coni	16181 Apr 07 13:48	1°¥18'52	0°14'42
Penning 1018 May 07 1346 PTE-575 PED-30	may Farth dist	,		1 41865 ATT		•	_	
certaing max of 16880 May 20 1539 (1982) 0°95 (1983) sequence of 16880 May 10 40511 0°95 (1983) sequence of 16880 May 10 40512 0°95 (1983) sequence of 16880 May 10 40512 </td <td></td> <td>•</td> <td></td> <td>1.41003710</td> <td></td> <td>-</td> <td>_</td> <td>0 1412</td>		•		1.41003710		-	_	0 1412
Personal Process 1618 1819 19 19 12 19 19 19 19	e vening rise	•			•	-	_	
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1968.000 16180 Jun 16 1912 1/2.0744 16181 Jun 27 10184 16181						•	_	1.39642 AU
ctoropade 16180 Jun 20 00:208 2°2170°9 centage and 1618 Jun 20 10:21 0°211°5 centage and 1618 Jun 20 10:22 0°71 Jun 20 10:22 0°71 Jun 20 10:22 0°71 Jun 20 10:22 0°72 Jun 20 10:22	asc. node					1	_	
1	retrograde	16180 Jun 20 02:08	2° Ω 17'09		C			
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min. Earth dist		16180 Jun 25 06:21	30°Rூ		evening max el	16181 May 23 15:40	10° © 19'49	24°04'23
minimum clams	inferior conj	16180 Jun 30 07:58	23° 5 49'33	3°02'01	retrograde	16181 Jun 03 20:07	16° 9 52'51	
Description 1618 Jul 16 12 17 18 18 19 19 19 19 19 19	minimum elong	16180 Jun 30 06:58	23° © 53'01	3°01'14	asc. node	16181 Jun 03 16:13	16° 9 52'44	
of the control of the properties of the pr	min. Earth dist.	16180 Jun 30 01:40	24° 5 911'26	0.69151 AU	evening set	16181 Jun 09 06:46	14° © 33'56	
Manufang max el 16180 Jul 18 21:21 20°853735 21°2510 minimum clong 16181 Jun 14 15:29 3°261108 2°400708 16180 Jul 19 10:26 21°252645 morning rise 16181 Jul 24 00:35 0°250708 0°25070	morning rise	16180 Jul 05 12:43	17° © 37'58			16181 Jun 13 21:53	9° © 11'23	0.68832 AU
Monthing set 16180 Jul 19 10 26 21°92'045 Morning fisce 16181 Jul 20 00:14 22°80'30'8 16180 Jul 26 14:46 0°\$\text{\$\chickness of the conting max} 16180 Jul 19 07:46 4°\$\text{\$\chickness of the conting max} 16180 Jul 19 07:46 4°\$\text{\$\chickness of the conting max} 16180 Jul 19 07:46 4°\$\text{\$\chickness of the conting max} 16180 Jul 19 07:46 4°\$\text{\$\chickness of the conting max} 16180 Jul 19 07:46 4°\$\text{\$\chickness of the conting max} 16180 Jul 19 07:46 4°\$\text{\$\chickness of the conting max} 16180 Jul 19 07:46 4°\$\text{\$\chickness of the conting max} 16180 Jul 19 07:46 4°\$\text{\$\chickness of the conting max} 16180 Jul 19 07:47 27°\$\text{\$\chickness of the conting max} 16180 Sep 0 21:106 27°\$\text{\$\chickness of the conting max} 16180 Sep 0 21:106 27°\$\text{\$\chickness of the conting max} 16180 Sep 0 21:106 27°\$\text{\$\chickness of the conting max} 16180 Sep 0 21:106 0°\$\text{\$\chickness of the conting max} 16180 Sep 0 21:107 0°\$\text{\$\chickness of the conting max} 16180 Sep 0 21:107 0°\$\text{\$\chickness of the conting max} 16180 Sep 0 21:107 0°\$\text{\$\chickness of the conting max} 16180 Sep 0 21:107 0°\$\text{\$\chickness of the conting max} 16180 Sep 0 21:107 0°\$\text{\$\chickness of the conting max} 16180 Sep 0 21:107 0°\$\text{\$\chickness of the conting max} 16180 Sep 0 21:107 0°\$\text{\$\chickness of the conting max} 16180 Sep 0 21:107 0°\$\text{\$\chickness of the conting max} 16180 Sep 0 21:107 0°\$\text{\$\chickness of the conting max} 16180 Sep 0 21:107 0°\$\text{\$\chickness of the conting max} 16180 Sep 0 21:107 0°\$\text{\$\chickness of the conting max} 16180 Sep 0 21:107 0°\$\text{\$\chickness of the conting max} 16180 Sep 0 21:107 0°\$\text{\$\chickness of the conting max} 16180 Sep 0 21:107 0°\$\text{\$\chickness of the conting max} 16180 Sep 0 21:107 0°\$\text{\$\chickness of the conting max} 16180 Sep 0 21:107 0°\$\text{\$\chickness of the conting max} 16180 Sep 0 21:107	direct		15° 5 46'11		inferior conj		8° 5 05'47	2°45'10
Minimum dogs	•	16180 Jul 18 21:21	20° © 53'35	21°25'10	•	16181 Jun 14 15:29	8° 9 511'40	2°44'09
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transit begin	minimum elong	16180 Oct 16 01:50	11°M39'42	0°14'15		-	30° Ŗ Ω	
transit end	transit middle	16180 Oct 16 01:50	11° M 39'42	0°14'15	evening set	16181 Sep 22 11:49	29° ≏ 26'54	
min. Earth dist.	transit begin	16180 Oct 16 00:15	11° M .43'19		inferior conj	16181 Sep 28 22:12	24° ≙ 14'07	0°59'38
morning rise direct 16180 Oct 22 2156 5° 1.55° 2.50° 2.55° 2.50° 3° 1.55° 2.50° 3° 1.55° 2.50° 3° 1.55° 2.50° 3° 1.55° 1.55° 1.55° 1.55° 1.55° 1.55° 1.55° 1.55° 1.55° 1.55° 1.55° 1.5	transit end	16180 Oct 16 03:25	11°M36'04		minimum elong	16181 Sep 28 23:48	24° ≏ 09'54	0°59'17
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morning max el 16180 Nov 12 20:39 11°M.38'15 27°51'12 direct 16181 Oct 12 01:49 15°♣43'24 27°56'47 asc. node 16180 Dec 19 20:37 21°₹41'42 16180 Nov 20 15:20 0°₹ 16181 Nov 20 15:20 16181 Nov	morning rise	16180 Oct 22 23:56				16181 Oct 02 04:54	20° ≏ 51'21	
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max. Earth dist. 16181 Dec 04 13:16 27° ₹45'32 1.31655 AU superior conj 16180 Dec 22 09:15 18° ₹310'30 1°32'23 16181 Dec 05 13:56 0° ₹ minimum elong 16180 Dec 22 07:52 18° ₹30'247 1°32'59 evening rise 16180 Dec 29 01:54 3°≈00'07 minimum elong 16181 Dec 06 18:25 2° ₹36'26 1°20'58 evening rise 16181 Jan 11 06:29 28°≈21'14 evening rise 16181 Dec 13 12:14 17° ₹27'11 16181 Jan 12 06:46 0° ★ evening max el 16181 Feb 09 00:33 24° ¥49'31 evening max el 16181 Dec 29 03:21 16°≈30'03 1 16181 Feb 15 01:53 23° ¥23'55 evening set 16181 Feb 19 14:50 20° ¥45'19 0.57434 AU retrograde 16182 Jan 09 17:57 0° ★ min. Earth dist. 16181 Feb 22 14:10 18° ¥40'32 4° 01'15 evening set 16182 Feb 09 01:20 18:51 30° ₹≈ minimum elong 16181 Feb 22 23:03 18° ¥24'56 3°58'10 min. Earth dist. 16182 Feb 01 02:04 1° ★02'22 0.55678 AU morning rise 16181 Mar 04 22:46 14° ¥0'729 inferior conj 16182 Feb 03 06:20 29° ≈42'21 -5° 20'04	Č			1 210/0 411				
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minimum elong 16180 Dec 22 07:52 18°₹02'47 1°32'59 evening rise 16180 Dec 27 16:48 0°≈ superior conj 16181 Dec 06 18:25 2°₹36'26 1°20'58 evening rise 16180 Dec 29 01:54 3°≈00'07 minimum elong 16181 Dec 06 16:19 2°₹24'52 1°21'26 desc. node 16181 Jan 11 06:29 28°≈21'14 evening rise 16181 Dec 13 12:14 17°₹27'11 16181 Jan 12 06:46 0° ★ evening max el 16181 Feb 09 00:33 24° ★46'14 25°56'27 desc. node 16181 Dec 29 03:21 16°≈30'03 retrograde 16181 Feb 15 01:53 23° ★23'55	superior coni	16180 Dag 22 00:15	180710120	1032123	max. Earth dist.			1.51033 AU
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evening set 16181 Feb 15 01:53 23°\text{\text{\text{23'55}}} \ \text{16182 Jan 09 17:57} \ 0°\text{\text{\text{\text{min. Earth dist.}}}} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	•							24°23'52
min. Earth dist. 16181 Feb 19 14:50 20°\(\frac{4}{4}\)519 0.57434 AU retrograde 16182 Jan 21 05:44 4°\(\frac{4}{5}\)52'45 inferior conj 16181 Feb 22 14:10 18°\(\frac{4}{4}\)40'32 -4°01'15 evening set 16182 Jan 26 09:18 3°\(\frac{4}{5}\)54'44 minimum elong 16181 Feb 22 23:03 18°\(\frac{4}{2}\)4'5 3°58'10 min. Earth dist. 16182 Feb 01 02:04 1°\(\frac{4}{5}\)0'22 0.55678 AU morning rise 16181 Mar 02 23:19 14°\(\frac{4}{5}\)19'52 inferior conj 16182 Feb 02 18:51 30°\(\frac{4}{5}\) direct 16181 Mar 04 22:46 14°\(\frac{4}{5}\)0'729 inferior conj 16182 Feb 03 06:20 29°\(\frac{4}{2}\)2'1 -5°20'04	•				-			
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morning rise 16181 Mar 02 23:19 14° ★19'52 16182 Feb 02 18:51 30° R≈ direct 16181 Mar 04 22:46 14° ★07'29 inferior conj 16182 Feb 03 06:20 29° ≈ 42'21 -5° 20'04	inferior conj	16181 Feb 22 14:10	18° ¥ 40′32	-4°01'15	evening set	16182 Jan 26 09:18	3°) 54'44	
direct 16181 Mar 04 22:46 14° ★ 07′29 inferior conj 16182 Feb 03 06:20 29° ≈ 42′21 -5°20′04	•			3°58'10	min. Earth dist.		1° ∺ 02'22	0.55678 AU
	=	16181 Mar 02 23:19				16182 Feb 02 18:51		
asc. node 16181 Mar 07 18:28 14° ★34'03 minimum elong 16182 Feb 03 14:54 29°≈29'12 5°17'56								
	asc. node	16181 Mar 07 18:28	14° ∺ 34'03		minimum elong	16182 Feb 03 14:54	29° ≈ 29'12	5°17'56

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23°る40'25

16183 Dec 16 00:56

evening set

16183 Jan 05 20:02

13°≈51'17

evening set

16184 Nov 12 22:15

16184 Nov 13 21:43

evening max el

29° 2704'04 19° 45'33

0°る

16185 Oct 10 13:12

16185 Oct 18 22:48

evening rise

14°ML20'31

0°×7

evening max el	16185 Oct 26 18:16	10° ∡ ¹47'43	18°49'41	retrograde	16186 Oct 17 09:51	27°M01'21	
retrograde	16185 Nov 04 06:47	15° ₹ 05'57		evening set	16186 Oct 19 11:42	26°M44'03	
desc. node	16185 Nov 05 15:29	14° ₹ 59'43		desc. node	16186 Oct 23 12:43	24°M43'33	
evening set	16185 Nov 06 04:26	14° ₹ 53'54		inferior conj	16186 Oct 26 23:25	22°M01'51	-1°06'29
inferior conj	16185 Nov 14 09:17	10° х 33′04	-2°47'17	minimum elong	16186 Oct 26 20:57	22°M07'03	1°04'57
minimum elong	16185 Nov 14 02:28	10° ∡ ¹45′21	2°44'01	min. Earth dist.	16186 Oct 30 05:29	19° M 18'30	0.58800 AU
min. Earth dist.	16185 Nov 17 09:19	8° ∡ ¹23'59	0.56739 AU	morning rise	16186 Nov 03 02:44	16°M36'03	
morning rise	16185 Nov 21 21:33	5° х 43′38		direct	16186 Nov 09 13:18	14° M 44'52	
direct	16185 Nov 27 20:09	4° ∤ 19'01		morning max el	16186 Nov 23 20:16	22°M24'39	27°30'20
morning max el	16185 Dec 12 00:18	11° ∡ ³38'04	26°23'34	S	16186 Nov 30 14:00	0° ∡ ¹	
	16185 Dec 26 04:56	0°ਰ		asc. node	16186 Dec 18 01:58	27° х 46'39	
asc. node	16185 Dec 31 04:51	8° ට 30'58		uov. nouv	16186 Dec 19 05:45	0°ප	
morning set	16186 Jan 09 18:46	27° る 35'44		morning set	16186 Dec 25 02:30	ਾਰ 11°ਰ57'11	
morning set	16186 Jan 10 21:24	27 ⊙ 33 44		max. Earth dist.	16186 Dec 31 16:57	26°る28'18	1.30983 AU
	10100 Jan 10 21.24	0 &		max. Earth dist.	10180 Dec 31 10.37	20 02818	1.30963 AU
	16106 Inn. 16 12:27	1292010	1020102		16107 I 01 00:05	270=200110	1027112
superior conj	16186 Jan 16 12:37	12°≈30'06	1°38'03	superior conj	16187 Jan 01 00:05	27°る08'18	1°36'12
minimum elong	16186 Jan 16 12:49	12° ≈ 31'13	1°38'37	minimum elong	16186 Dec 31 23:15	27° る 03'35	1°36'50
max. Earth dist.	16186 Jan 17 09:10	14° ≈ 24'43	1.31283 AU		16187 Jan 02 06:44	0° ≈	
evening rise	16186 Jan 23 12:03	27° ≈ 44'34		evening rise	16187 Jan 07 18:02	12° ≈ 03'31	
	16186 Jan 24 13:58	0° ∀			16187 Jan 16 17:41	0° ∀	
desc. node	16186 Feb 01 15:10	15° ¥ 37'31		desc. node	16187 Jan 19 11:55	4°) 53′28	
	16186 Feb 10 08:10	0 ° Υ		evening max el	16187 Feb 06 05:27	28°) 49'31	26°38'11
evening max el	16186 Feb 24 04:15	17° Ƴ 11'52	27°24'38		16187 Feb 07 12:14	0° Υ	
retrograde	16186 Mar 10 04:29	24° Ƴ 34'15		retrograde	16187 Feb 20 05:44	6° Ƴ 01'11	
evening set	16186 Mar 16 22:37	22° Y 29'52		evening set	16187 Feb 26 15:43	4° Ƴ 19'46	
min. Earth dist.	16186 Mar 20 18:15	19° Ƴ 41'19	0.60883 AU	min. Earth dist.	16187 Mar 02 19:06	1° Y 41'43	0.58638 AU
inferior conj	16186 Mar 23 22:31	16° Ƴ 54'22			16187 Mar 05 00:53	30° R ₩	
minimum elong	16186 Mar 24 02:09	16° Υ 46'22	1°38'07	inferior conj	16187 Mar 05 23:32	29°) 16'28	-3°09'00
asc. node	16186 Mar 29 02:16	12° Υ 59'25	1 30 07	minimum elong	16187 Mar 06 06:47		3°06'16
morning rise	16186 Mar 31 09:03	12° Υ '00'32		morning rise	16187 Mar 14 01:22	24°) 43'50	3 00 10
direct	16186 Apr 02 11:49	12 γ 00 32 11° γ 41'51		asc. node	16187 Mar 15 23:38	24° X 30'18	
	_		1705 4100				
morning max el	16186 Apr 09 12:37	15° Y 13'18	17°54'00	direct	16187 Mar 16 00:27	24°) (30'18	10021111
	16186 Apr 19 18:50	0°8		morning max el	16187 Mar 23 23:52	28°) €26'55	18°21'11
morning set	16186 Apr 25 03:30	9° 8 35'22			16187 Mar 25 10:57	0° Υ	
desc. node	16186 Apr 30 16:30	19° 8 35'14		morning set	16187 Apr 08 17:47	23° Y 32'34	
					16187 Apr 12 03:20	0°8	
superior conj	16186 May 05 20:46	28° 8 41'08	-0°41'36	desc. node	16187 Apr 17 13:16	10° 8 06'15	
minimum elong	16186 May 05 17:05	28° 8 25'14	0°41'36				
	16186 May 06 15:05	Π $\circ 0$		superior conj	16187 Apr 18 02:53	11° 8 08'29	-0°04'45
max. Earth dist.	16186 May 13 06:34	11° Ⅱ 08'58	1.43018 AU	minimum elong	16187 Apr 18 02:30	11° 8 06'41	0°05'07
evening rise	16186 May 19 11:34	21° Ⅲ 07′06		behind sun begin	16187 Apr 17 19:31	10° 8 34'49	
	16186 May 25 05:22	0ංම		behind sun end	16187 Apr 18 09:28	11° 8 38'29	
	16186 Jun 15 13:53	$0^{\circ}\Omega$		max. Earth dist.	16187 Apr 25 16:09	24° 8 28'16	1.40942 AU
evening max el	16186 Jun 20 17:01	5° Ω 45'01	21°56'40		16187 Apr 28 23:02	0° I I	
asc. node	16186 Jun 25 00:33	9° £ 23'40		evening rise	16187 Apr 30 03:23	1° Ⅱ 56'52	
retrograde	16186 Jun 30 01:05	11° Ω 11'49			16187 May 18 13:29	0°ಅ	
evening set	16186 Jul 04 17:29	9° Ω 14'49		evening max el	16187 Jun 03 08:18	19° 5 39'17	23°17'24
inferior conj				evening max er			23 1/24
minimum elong	16186 Int. 09 23:16	201157131	3°06'57	asc node			
min. Earth dist.	16186 Jul 09 23:16	2° Ω 57'31	3°06'57 3°06'17	asc. node	16187 Jun 11 21:32	25° © 33'36	
	16186 Jul 09 22:47	2° Ω 59'12	3°06'17	retrograde	16187 Jun 11 21:32 16187 Jun 13 21:06	25°©33'36 25°©50'28	
min. Earth dist.	16186 Jul 09 22:47 16186 Jul 10 00:23	2° Ω 59'12 2° Ω 53'37	3°06'17	retrograde evening set	16187 Jun 11 21:32 16187 Jun 13 21:06 16187 Jun 19 01:03	25°©33'36 25°©50'28 23°©38'37	205(100
	16186 Jul 09 22:47 16186 Jul 10 00:23 16186 Jul 12 03:26	2° \O 59'12 2° \O 53'37 30° R ©	3°06'17	retrograde evening set inferior conj	16187 Jun 11 21:32 16187 Jun 13 21:06 16187 Jun 19 01:03 16187 Jun 24 09:12	25°\$33'36 25°\$50'28 23°\$38'37 17°\$13'22	2°56'09
morning rise	16186 Jul 09 22:47 16186 Jul 10 00:23 16186 Jul 12 03:26 16186 Jul 15 03:55	2°\$\Omega59'12 2°\$\Omega53'37 30°\$\Sigma 26°\$\Sigma41'42	3°06'17	retrograde evening set inferior conj minimum elong	16187 Jun 11 21:32 16187 Jun 13 21:06 16187 Jun 19 01:03 16187 Jun 24 09:12 16187 Jun 24 07:51	25°©33'36 25°©50'28 23°©38'37 17°©13'22 17°©17'58	2°55'16
morning rise direct	16186 Jul 09 22:47 16186 Jul 10 00:23 16186 Jul 12 03:26 16186 Jul 15 03:55 16186 Jul 19 23:22	2°N59'12 2°N53'37 30°RS 26°S41'42 24°S39'25	3°06'17	retrograde evening set inferior conj minimum elong min. Earth dist.	16187 Jun 11 21:32 16187 Jun 13 21:06 16187 Jun 19 01:03 16187 Jun 24 09:12 16187 Jun 24 07:51 16187 Jun 23 21:17	25°\$33'36 25°\$50'28 23°\$38'37 17°\$13'22 17°\$17'58 17°\$54'30	
morning rise	16186 Jul 09 22:47 16186 Jul 10 00:23 16186 Jul 12 03:26 16186 Jul 15 03:55	2° N 59'12 2° N 53'37 30° R © 26° © 41'42 24° © 39'25 28° © 29'44	3°06'17	retrograde evening set inferior conj minimum elong	16187 Jun 11 21:32 16187 Jun 13 21:06 16187 Jun 19 01:03 16187 Jun 24 09:12 16187 Jun 24 07:51	25°\$33'36 25°\$50'28 23°\$38'37 17°\$13'22 17°\$17'58 17°\$54'30 11°\$05'26	2°55'16
morning rise direct	16186 Jul 09 22:47 16186 Jul 10 00:23 16186 Jul 12 03:26 16186 Jul 15 03:55 16186 Jul 19 23:22 16186 Jul 27 15:37 16186 Jul 29 06:11	2° N 59'12 2° N 53'37 30° R 5 26° 541'42 24° 539'25 28° 529'44 0° N	3°06'17 0.69116 AU	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	16187 Jun 11 21:32 16187 Jun 13 21:06 16187 Jun 19 01:03 16187 Jun 24 09:12 16187 Jun 24 07:51 16187 Jun 23 21:17	25°\$33'36 25°\$50'28 23°\$38'37 17°\$13'22 17°\$17'58 17°\$54'30 11°\$05'26 9°\$22'11	2°55'16 0.69076 AU
morning rise direct	16186 Jul 09 22:47 16186 Jul 10 00:23 16186 Jul 12 03:26 16186 Jul 15 03:55 16186 Jul 19 23:22 16186 Jul 27 15:37	2° N 59'12 2° N 53'37 30° R © 26° © 41'42 24° © 39'25 28° © 29'44	3°06'17 0.69116 AU	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	16187 Jun 11 21:32 16187 Jun 13 21:06 16187 Jun 19 01:03 16187 Jun 24 09:12 16187 Jun 24 07:51 16187 Jun 23 21:17 16187 Jun 29 14:37	25°\$33'36 25°\$50'28 23°\$38'37 17°\$13'22 17°\$17'58 17°\$54'30 11°\$05'26	2°55'16
morning rise direct desc. node	16186 Jul 09 22:47 16186 Jul 10 00:23 16186 Jul 12 03:26 16186 Jul 15 03:55 16186 Jul 19 23:22 16186 Jul 27 15:37 16186 Jul 29 06:11	2° N 59'12 2° N 53'37 30° R 5 26° 541'42 24° 539'25 28° 529'44 0° N	3°06'17 0.69116 AU	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	16187 Jun 11 21:32 16187 Jun 13 21:06 16187 Jun 19 01:03 16187 Jun 24 09:12 16187 Jun 24 07:51 16187 Jun 23 21:17 16187 Jun 29 14:37 16187 Jul 03 21:53	25°\$33'36 25°\$50'28 23°\$38'37 17°\$13'22 17°\$17'58 17°\$54'30 11°\$05'26 9°\$22'11	2°55'16 0.69076 AU
morning rise direct desc. node	16186 Jul 09 22:47 16186 Jul 10 00:23 16186 Jul 12 03:26 16186 Jul 15 03:55 16186 Jul 19 23:22 16186 Jul 27 15:37 16186 Jul 29 06:11 16186 Jul 29 12:37	2° N 59'12 2° N 53'37 30° R 52 26° 52 41'42 24° 539'25 28° 529'44 0° N 0° N 16'00	3°06'17 0.69116 AU	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	16187 Jun 11 21:32 16187 Jun 13 21:06 16187 Jun 19 01:03 16187 Jun 24 09:12 16187 Jun 24 07:51 16187 Jun 23 21:17 16187 Jun 29 14:37 16187 Jul 03 21:53 16187 Jul 12 06:23	25°\$33'36 25°\$50'28 23°\$38'37 17°\$13'22 17°\$17'58 17°\$54'30 11°\$05'26 9°\$22'11 14°\$09'09	2°55'16 0.69076 AU
morning rise direct desc. node morning max el	16186 Jul 09 22:47 16186 Jul 10 00:23 16186 Jul 12 03:26 16186 Jul 15 03:55 16186 Jul 19 23:22 16186 Jul 27 15:37 16186 Jul 29 06:11 16186 Jul 29 12:37 16186 Aug 20 21:34	2° Ω 59'12 2° Ω 53'37 30° RS 26° S41'42 24° S39'25 28° S29'44 0° Ω 0° Ω 16'00 0° M	3°06'17 0.69116 AU	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	16187 Jun 11 21:32 16187 Jun 13 21:06 16187 Jun 19 01:03 16187 Jun 24 09:12 16187 Jun 24 07:51 16187 Jun 23 21:17 16187 Jun 29 14:37 16187 Jul 03 21:53 16187 Jul 12 06:23 16187 Jul 14 12:52	25°S33'36 25°S50'28 23°S38'37 17°S13'22 17°S17'58 17°S54'30 11°S05'26 9°S22'11 14°S09'09 16°S34'04	2°55'16 0.69076 AU
morning rise direct desc. node morning max el	16186 Jul 09 22:47 16186 Jul 10 00:23 16186 Jul 12 03:26 16186 Jul 15 03:55 16186 Jul 19 23:22 16186 Jul 27 15:37 16186 Jul 29 06:11 16186 Jul 29 12:37 16186 Aug 20 21:34 16186 Aug 31 13:56	2° Ω 59'12 2° Ω 53'37 30° RS 26° S41'42 24° S39'25 28° S29'44 0° Ω 0° Ω 16'00 0° M 16° M 35'44	3°06'17 0.69116 AU 22°13'19	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	16187 Jun 11 21:32 16187 Jun 13 21:06 16187 Jun 19 01:03 16187 Jun 24 09:12 16187 Jun 24 07:51 16187 Jun 23 21:17 16187 Jun 29 14:37 16187 Jul 03 21:53 16187 Jul 12 06:23 16187 Jul 14 12:52 16187 Jul 24 20:38	25°\$33'36 25°\$50'28 23°\$38'37 17°\$13'22 17°\$17'58 17°\$54'30 11°\$05'26 9°\$22'11 14°\$09'09 16°\$34'04 0°\$\Omega\$	2°55'16 0.69076 AU
morning rise direct desc. node morning max el	16186 Jul 09 22:47 16186 Jul 10 00:23 16186 Jul 12 03:26 16186 Jul 15 03:55 16186 Jul 19 23:22 16186 Jul 27 15:37 16186 Jul 29 06:11 16186 Jul 29 12:37 16186 Aug 20 21:34 16186 Aug 31 13:56 16186 Sep 05 21:50	2° \$\Omega 59'12 2° \$\Omega 53'37 30° r\$\Omega\$ 26° \$\Omega 41'42 24° \$\Omega 39'25 28° \$\Omega 29'44 0° \$\Omega\$ 0° \$\Omega 16'00 0° \$\Omega\$ 16° \$\Omega 35'44 25° \$\Omega 19'58	3°06'17 0.69116 AU 22°13'19	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	16187 Jun 11 21:32 16187 Jun 13 21:06 16187 Jun 19 01:03 16187 Jun 24 09:12 16187 Jun 24 07:51 16187 Jun 23 21:17 16187 Jun 29 14:37 16187 Jul 03 21:53 16187 Jul 12 06:23 16187 Jul 14 12:52 16187 Jul 24 20:38 16187 Aug 11 06:27	25°\$33'36 25°\$50'28 23°\$38'37 17°\$13'22 17°\$17'58 17°\$54'30 11°\$05'26 9°\$22'11 14°\$09'09 16°\$34'04 0°\$\Omega\$ 25°\$\Omega\$57'49	2°55'16 0.69076 AU
morning rise direct desc. node morning max el	16186 Jul 09 22:47 16186 Jul 10 00:23 16186 Jul 12 03:26 16186 Jul 15 03:55 16186 Jul 19 23:22 16186 Jul 27 15:37 16186 Jul 29 06:11 16186 Jul 29 12:37 16186 Aug 20 21:34 16186 Aug 31 13:56 16186 Sep 05 21:50	2° \$\Omega 59'12 2° \$\Omega 53'37 30° r\$\Omega\$ 26° \$\Omega 41'42 24° \$\Omega 39'25 28° \$\Omega 29'44 0° \$\Omega\$ 0° \$\Omega 16'00 0° \$\Omega\$ 16° \$\Omega 35'44 25° \$\Omega 19'58	3°06'17 0.69116 AU 22°13'19 1.41398 AU	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set	16187 Jun 11 21:32 16187 Jun 13 21:06 16187 Jun 19 01:03 16187 Jun 24 09:12 16187 Jun 23 21:17 16187 Jun 29 14:37 16187 Jul 03 21:53 16187 Jul 12 06:23 16187 Jul 14 12:52 16187 Jul 24 20:38 16187 Aug 11 06:27 16187 Aug 13 20:28	25°\$33'36 25°\$50'28 23°\$38'37 17°\$13'22 17°\$17'58 17°\$54'30 11°\$05'26 9°\$22'11 14°\$09'09 16°\$34'04 0°\$\Omega\$ 25°\$\Omega\$57'49 0°\$\mathbb{m}\$	2°55'16 0.69076 AU 20°51'41
morning rise direct desc. node morning max el morning set max. Earth dist.	16186 Jul 09 22:47 16186 Jul 10 00:23 16186 Jul 12 03:26 16186 Jul 15 03:55 16186 Jul 19 23:22 16186 Jul 27 15:37 16186 Jul 29 06:11 16186 Jul 29 12:37 16186 Aug 20 21:34 16186 Aug 31 13:56 16186 Sep 05 21:50 16186 Sep 08 16:10	2° \$\alpha 59'12 2° \$\alpha 53'37 30° \$\mathbb{S}\$ 26° \$\mathbb{S}41'42 24° \$\mathbb{S}39'25 28° \$\mathbb{S}29'44 0° \$\alpha\$ 0° \$\alpha\$ 16° \$\mathbb{M}\$35'44 25° \$\mathbb{M}\$19'58 0° \$\mathbb{\Pi}\$ 8° \$\mathbb{L}\$48'08	3°06'17 0.69116 AU 22°13'19 1.41398 AU -1°01'01	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	16187 Jun 11 21:32 16187 Jun 13 21:06 16187 Jun 19 01:03 16187 Jun 24 09:12 16187 Jun 23 21:17 16187 Jun 29 14:37 16187 Jul 03 21:53 16187 Jul 12 06:23 16187 Jul 14 12:52 16187 Jul 24 20:38 16187 Aug 11 06:27 16187 Aug 13 20:28 16187 Aug 19 05:33	25°\$33'36 25°\$50'28 23°\$38'37 17°\$13'22 17°\$17'58 17°\$54'30 11°\$05'26 9°\$22'11 14°\$09'09 16°\$34'04 0°\$\Omega\$ 25°\$\Omega\$57'49 0°\$\mathbf{m}\text{8}^{\text{\$\chi}}\mathbf{m}\text{3}3'50	2°55'16 0.69076 AU 20°51'41 1.43460 AU
morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	16186 Jul 09 22:47 16186 Jul 10 00:23 16186 Jul 12 03:26 16186 Jul 15 03:55 16186 Jul 19 23:22 16186 Jul 27 15:37 16186 Jul 29 06:11 16186 Jul 29 12:37 16186 Aug 20 21:34 16186 Sep 05 21:50 16186 Sep 08 16:10 16186 Sep 13 17:35 16186 Sep 13 22:32	$2^{\circ}\Omega$ 59'12 $2^{\circ}\Omega$ 53'37 30° RS 26° S41'42 24° S39'25 28° S29'44 $0^{\circ}\Omega$ $0^{\circ}\Omega$ 16'00 0° MD 16° MD 35'44 25° MD 19'58 0° L 8° L48'08 9° L10'03	3°06'17 0.69116 AU 22°13'19 1.41398 AU	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	16187 Jun 11 21:32 16187 Jun 13 21:06 16187 Jun 19 01:03 16187 Jun 24 09:12 16187 Jun 23 21:17 16187 Jun 29 14:37 16187 Jul 03 21:53 16187 Jul 12 06:23 16187 Jul 14 12:52 16187 Jul 24 20:38 16187 Aug 11 06:27 16187 Aug 13 20:28 16187 Aug 19 05:33 16187 Aug 26 02:25	25°\$33'36 25°\$50'28 23°\$38'37 17°\$13'22 17°\$17'58 17°\$54'30 11°\$05'26 9°\$22'11 14°\$09'09 16°\$34'04 0°\$\Omega\$ 25°\$\Omega\$57'49 0°\$\Omega\$ 8°\$\Omega\$3'50	2°55'16 0.69076 AU 20°51'41 1.43460 AU -1°36'11
morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	16186 Jul 09 22:47 16186 Jul 10 00:23 16186 Jul 12 03:26 16186 Jul 15 03:55 16186 Jul 19 23:22 16186 Jul 27 15:37 16186 Jul 29 06:11 16186 Jul 29 12:37 16186 Aug 20 21:34 16186 Sep 05 21:50 16186 Sep 08 16:10 16186 Sep 13 17:35 16186 Sep 13 22:32 16186 Sep 21 01:32	2° \$\Omega 59'12 2° \$\Omega 53'37 30° \$\Pi \in \in \in \in \in \in \in \in \in \i	3°06'17 0.69116 AU 22°13'19 1.41398 AU -1°01'01	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	16187 Jun 11 21:32 16187 Jun 13 21:06 16187 Jun 19 01:03 16187 Jun 24 09:12 16187 Jun 23 21:17 16187 Jun 29 14:37 16187 Jul 03 21:53 16187 Jul 12 06:23 16187 Jul 14 12:52 16187 Jul 24 20:38 16187 Aug 11 06:27 16187 Aug 13 20:28 16187 Aug 19 05:33 16187 Aug 26 02:25 16187 Aug 26 10:01	25°\$33'36 25°\$50'28 23°\$38'37 17°\$13'22 17°\$17'58 17°\$54'30 11°\$05'26 9°\$22'11 14°\$09'09 16°\$34'04 0°\$\Omega\$ 25°\$\Omega\$57'49 0°\$\Omega\$ 8°\$\Omega\$3'50	2°55'16 0.69076 AU 20°51'41 1.43460 AU -1°36'11
morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	16186 Jul 09 22:47 16186 Jul 10 00:23 16186 Jul 12 03:26 16186 Jul 15 03:55 16186 Jul 19 23:22 16186 Jul 27 15:37 16186 Jul 29 06:11 16186 Jul 29 12:37 16186 Aug 20 21:34 16186 Sep 05 21:50 16186 Sep 08 16:10 16186 Sep 13 17:35 16186 Sep 13 22:32 16186 Sep 21 01:32 16186 Sep 24 02:49	2° \$\Omega 59'12 2° \$\Omega 53'37 30° \$\Omega \in \Omega 41'42 24° \$\Omega 39'25 28° \$\Omega 29'44 0° \$\Omega \in \Omega 16'00 0° \$\Omega 16'00 0° \$\Omega 16'00 0° \$\Omega 19'58 0° \$\Omega \in \Omega 48'08 9° \$\Omega 10'03 22° \$\Omega 07'33 27° \$\Omega 48'26	3°06'17 0.69116 AU 22°13'19 1.41398 AU -1°01'01	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	16187 Jun 11 21:32 16187 Jun 13 21:06 16187 Jun 19 01:03 16187 Jun 24 09:12 16187 Jun 23 21:17 16187 Jun 29 14:37 16187 Jul 03 21:53 16187 Jul 12 06:23 16187 Jul 14 12:52 16187 Jul 24 20:38 16187 Aug 11 06:27 16187 Aug 13 20:28 16187 Aug 19 05:33 16187 Aug 26 02:25 16187 Aug 26 10:01 16187 Sep 01 00:51	25°\$33'36 25°\$50'28 23°\$38'37 17°\$13'22 17°\$17'58 17°\$54'30 11°\$05'26 9°\$22'11 14°\$09'09 16°\$34'04 0°\$\Omega\$ 25°\$\Omega\$57'49 0°\$\Omega\$ 8°\$\Omega\$3'50 19°\$\Omega\$52'02 20°\$\Omega\$23'56 0°\$\Omega\$	2°55'16 0.69076 AU 20°51'41 1.43460 AU -1°36'11
morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	16186 Jul 09 22:47 16186 Jul 10 00:23 16186 Jul 12 03:26 16186 Jul 15 03:55 16186 Jul 19 23:22 16186 Jul 27 15:37 16186 Jul 29 06:11 16186 Jul 29 12:37 16186 Aug 20 21:34 16186 Sep 05 21:50 16186 Sep 08 16:10 16186 Sep 13 17:35 16186 Sep 13 22:32 16186 Sep 21 01:32	2° \$\Omega 59'12 2° \$\Omega 53'37 30° \$\Pi \in \in \in \in \in \in \in \in \in \i	3°06'17 0.69116 AU 22°13'19 1.41398 AU -1°01'01 1°00'14	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	16187 Jun 11 21:32 16187 Jun 13 21:06 16187 Jun 19 01:03 16187 Jun 24 09:12 16187 Jun 23 21:17 16187 Jun 29 14:37 16187 Jul 03 21:53 16187 Jul 12 06:23 16187 Jul 14 12:52 16187 Jul 24 20:38 16187 Aug 11 06:27 16187 Aug 13 20:28 16187 Aug 19 05:33 16187 Aug 26 02:25 16187 Aug 26 10:01	25°\$33'36 25°\$50'28 23°\$38'37 17°\$13'22 17°\$17'58 17°\$54'30 11°\$05'26 9°\$22'11 14°\$09'09 16°\$34'04 0°\$\Omega\$ 25°\$\Omega\$57'49 0°\$\Omega\$ 8°\$\Omega\$3'50	2°55'16 0.69076 AU 20°51'41 1.43460 AU -1°36'11

	16187 Sep 18 13:16	0° M		evening rise	16188 Aug 19 06:43	22° m/40'18	
evening max el	16187 Sep 18 13:10 16187 Sep 23 13:20	6°ML17'08	18°01'45	evening rise	16188 Aug 23 15:23	0° ⊡	
retrograde	16187 Sep 23 13.20 16187 Sep 30 05:23	9°M43'48	16 01 43	asc. node	16188 Aug 24 18:54	0 == 1° £ 54'46	
evening set	16187 Oct 02 14:36	9°M17'13		evening max el	16188 Sep 06 04:17	1 = 34 40 19°	18°06'36
inferior conj	16187 Oct 02 14.30	4°M15'10	0°19'09	retrograde	16188 Sep 12 13:09	19 = 44 13 23° £ 04'43	18 00 30
3	16187 Oct 09 09.30 16187 Oct 09 10:06	4°M13'42	0°19'16	C	16188 Sep 15 06:55	23 ≗ 04 43 22° ≗ 25'22	
minimum elong			0 1910	evening set	*		1925!10
desc. node	16187 Oct 10 10:02	3°M15'17	0.61000 ATT	inferior conj	16188 Sep 21 11:44	17° ♀ 05'43	1°25'19
min. Earth dist.	16187 Oct 12 11:20	1°M17'08	0.61088 AU	minimum elong	16188 Sep 21 13:47	17° ♀ 00'05	1°24'46
	16187 Oct 13 22:08	30° ₹ Ω		min. Earth dist.	16188 Sep 24 03:06	14° £ 13'15	0.63335 AU
morning rise	16187 Oct 16 02:37	28° £ 20′26		desc. node	16188 Sep 26 07:22	12° 2 04'55	
direct	16187 Oct 22 18:44	26° Ω 06'06		morning rise	16188 Sep 27 18:33	10° £ 52'04	
	16187 Nov 01 09:41	0°M		direct	16188 Oct 04 10:14	8° ≏ 22'00	
morning max el	16187 Nov 05 23:47	4°M00'10	27°58'23	morning max el	16188 Oct 18 08:24	16° ≏ 20'41	27°47'50
	16187 Nov 25 07:28	0° ∡			16188 Oct 29 15:44	0° M	
asc. node	16187 Dec 04 23:00	17° ≯ 24'31			16188 Nov 17 01:09	0° ∡	
morning set	16187 Dec 09 05:10	26° ₺ 00'35		asc. node	16188 Nov 20 19:56	7° ≯ 18'15	
	16187 Dec 11 02:34	8°0		morning set	16188 Nov 22 00:30	9° ₰ 41'07	
max. Earth dist.	16187 Dec 14 22:55	8° පි 22'14	1.31238 AU	max. Earth dist.	16188 Nov 26 23:24	19° ∡ ¹59'17	1.32071 AU
superior conj	16187 Dec 16 10:37	11° ろ 40'09	1°28'18	superior conj	16188 Nov 29 18:19	26° ₹ 00'55	1°14'17
minimum elong	16187 Dec 16 08:54	11° る 30'33	1°28'51	minimum elong	16188 Nov 29 16:02	25° ∡ ¹48'29	1°14'41
evening rise	16187 Dec 23 03:15	26° る 28'35			16188 Dec 01 13:58	0°ರ	
	16187 Dec 24 18:43	0° ≈		evening rise	16188 Dec 06 13:57	10° る 56'01	
desc. node	16188 Jan 06 08:44	23° ≈ 30'37			16188 Dec 16 03:34	0° ≈	
	16188 Jan 10 17:49	0° ∀		desc. node	16188 Dec 23 05:36	11° ≈ 15′08	
evening max el	16188 Jan 18 22:17	9° ∺ 34'11	25°19'39	evening max el	16188 Dec 30 08:39	19° ≈ 39'20	23°40'10
retrograde	16188 Feb 01 19:13	16°) 32′14		retrograde	16189 Jan 12 18:47	26°≈18′06	
evening set	16188 Feb 07 12:15	15°) 18′23		evening set	16189 Jan 17 09:59	25° ≈ 31'39	
min. Earth dist.	16188 Feb 12 10:53	12°) €36'03	0.56616 AU	min. Earth dist.	16189 Jan 23 19:55	22° ≈ 27'16	0.55120 AU
inferior conj	16188 Feb 15 03:56	10°) 48'44	-4°37'33	inferior conj	16189 Jan 25 11:34	21° ≈ 29'05	-5°43'40
minimum elong	16188 Feb 15 13:21	10°) 33′09	4°34'38	minimum elong	16189 Jan 25 18:03	21°≈19'33	5°42'17
morning rise	16188 Feb 23 17:14	6°) 37′21		morning rise	16189 Feb 03 03:37	17° ≈ 34'48	
direct	16188 Feb 25 18:27	6°) €25'04		direct	16189 Feb 05 17:12	17° ≈ 18'32	
asc. node	16188 Mar 01 21:01	7°) 46′29		morning max el	16189 Feb 16 14:18	22° ≈ 34'41	20°21'28
morning max el	16188 Mar 06 01:49	10°) 57'53	19°09'43	asc. node	16189 Feb 16 18:20	22°≈44'31	20 21 20
morning max or	16188 Mar 18 16:25	0°Υ	17 07 13	use. Houe	16189 Feb 22 16:04	0° \	
morning set	16188 Mar 22 17:48	7° Υ 54'06		morning set	16189 Mar 07 00:14	22° ₩ 30'16	
morning set	10100 Mar 22 17.40	7 1 3 4 00		morning set	16189 Mar 10 15:27	0°Υ	
superior conj	16188 Mar 31 02:26	24° Y 21'42	0°27'48		1010) War 10 13.27	0 1	
minimum elong	16188 Mar 31 04:05	24° Υ 29'40		superior conj	16189 Mar 14 15:10	8° Ƴ 09'18	0°54'27
desc. node	16188 Apr 03 09:58	0° 8 38'22	0 27 17	minimum elong	16189 Mar 14 17:39	8° Υ 21'49	0°54'03
desc. Hode	16188 Apr 03 01:45	0°8		max. Earth dist.	16189 Mar 20 05:22	19° Υ 08'25	1.36414 AU
max. Earth dist.	-	7° と 04'07	1.38660 AU	desc. node		21° Y 08 23	1.30414 AU
	16188 Apr 06 22:15	13° 8 41'09	1.38000 AU		16189 Mar 21 06:37	26° Υ 12'34	
evening rise	16188 Apr 10 16:24 16188 Apr 20 15:07	0° Ⅱ		evening rise	16189 Mar 24 00:24 16189 Mar 26 03:01	0° 8	
	16188 May 12 12:54	0°95	24020116		16189 Apr 14 02:26	0°II	25051155
evening max el	16188 May 15 21:55	3°534'26	24°38'16	evening max el	16189 Apr 28 11:32	17° Ⅱ 27'52	25°51'55
retrograde	16188 May 27 13:39	10°522'52		retrograde	16189 May 11 01:29	24° II 42'07	
asc. node	16188 May 28 18:36	10°©16'45		asc. node	16189 May 15 15:44	23° I 17'36	
evening set	16188 Jun 02 05:02	7° © 59'28		evening set	16189 May 17 03:42	22° I 11'30	
min. Earth dist.	16188 Jun 06 16:41	2°952'32		min. Earth dist.	16189 May 21 08:24	17° Ⅱ 40'59	0.67551 AU
inferior conj	16188 Jun 07 17:33	1° © 29'29	2°34'50	inferior conj	16189 May 22 22:18	15° ∐ 41'14	2°02'25
minimum elong	16188 Jun 07 15:35	1°536'02	2°33'42	minimum elong	16189 May 22 20:07	15° ∏ 48'10	2°01'07
	16188 Jun 08 20:37	30°RⅡ		morning rise	16189 May 28 13:09	9° Ⅱ 53'04	
morning rise	16188 Jun 13 02:19	25° Ⅱ 30'46		direct	16189 May 31 22:01	8° Ⅱ 48'12	
direct	16188 Jun 16 22:01	24° Ⅱ 07'05		morning max el	16189 Jun 07 14:31	12° Ⅱ 23'49	18°48'04
morning max el	16188 Jun 24 06:54	28° Ⅱ 12'29	19°42'15	desc. node	16189 Jun 17 07:07	24° Ⅱ 50'31	
	16188 Jun 25 23:56	0ಂ ತಾ			16189 Jun 20 17:48	0ಂ ತಾ	
desc. node	16188 Jun 30 10:02	5° 5 25'10		greatest brilliancy	16189 Jun 21 09:09	0°\$58'22	-0.8m
greatest brilliancy	16188 Jul 07 10:18	15° © 15'35	-0.6m	morning set	16189 Jun 29 22:15	14°510'21	
	16188 Jul 17 06:24	$0^{\circ}\Omega$			16189 Jul 10 02:32	$0^{\circ}\Omega$	
morning set	16188 Jul 20 10:47	4° Ω 51'54		max. Earth dist.	16189 Jul 14 14:10	6° Ω 59'26	1.45858 AU
max. Earth dist.	16188 Jul 31 19:31	22° Ω 31'55	1.44995 AU				
				superior conj	16189 Jul 16 02:25	9° Ω 21′02	-2°14'17
superior conj	16188 Aug 05 11:52	29° Ω 58'45	-2°03'06	minimum elong	16189 Jul 16 03:03	9° Ω 23'29	
minimum elong	16188 Aug 05 18:41	0° m/26'08		S	16189 Jul 29 04:05	0°m	
5	16188 Aug 05 12:11	0° m/y		evening rise	16189 Jul 31 10:54	3° m 39'24	
		4		<i>5</i>		4-7-	

asc. node	16189 Aug 11 15:36	21° m 24'58		max. Earth dist.	16190 Jun 27 11:00	21° © 40'25	1.45972 AU
	16189 Aug 17 17:04	0∘ ⊽			16190 Jul 02 19:25	$0^{\circ}\Omega$	
evening max el	16189 Aug 20 18:08	3° ≏ 26'48	18°29'15	evening rise	16190 Jul 11 14:45	13° Ω 39'17	
retrograde	16189 Aug 27 05:02	6° £ 54'28			16190 Jul 22 05:57	0° m	
evening set	16189 Aug 30 07:56	5° £ 59'39		greatest brilliancy	16190 Jul 22 23:52	1° ™ 07'28	-0.7m
inferior conj	16189 Sep 05 02:06	0° ჲ 24'31		asc. node	16190 Jul 29 12:19	10° m 31'17	
minimum elong	16189 Sep 05 04:24	0° £ 17'34	2°12'18	evening max el	16190 Aug 04 04:13	17° m 17'48	19°08'50
	16189 Sep 05 10:13	30° ₽, ™		retrograde	16190 Aug 11 01:44	21°M 05'48	
min. Earth dist.	16189 Sep 07 04:10	27° m 54'15	0.65339 AU	evening set	16190 Aug 14 14:18	19° m 53'53	
morning rise	16189 Sep 10 23:36	24° m 00'51		inferior conj	16190 Aug 20 01:13	14° Mp 05'02	2°44'32
desc. node	16189 Sep 13 04:43	22° m 30'20		minimum elong	16190 Aug 20 03:04	13° m 59'05	2°43'56
direct	16189 Sep 17 09:49	21° m/24'02	27004110	min. Earth dist.	16190 Aug 21 13:15	12° Mp 08'34	0.66978 AU
morning max el	16189 Sep 30 19:25	29° m 15'23	27°04'19	morning rise	16190 Aug 25 15:07	7° m/38'10	
	16189 Oct 01 12:54	0° ሆ 0° 亚		desc. node direct	16190 Aug 31 02:05	5° Mp 04'22	
morning sot	16189 Oct 23 12:49 16189 Nov 05 09:43	22°M52'11			16190 Aug 31 16:26	5° Mp 02'58	25°56'08
morning set asc. node	16189 Nov 03 09.43	27°M22'13		morning max el	16190 Sep 13 06:59 16190 Sep 27 08:57	12° ™ 33'17 0° ⊆	23 30 08
asc. Hode	16189 Nov 09 00:15	27 llG22 13 0° x ⁷			16190 Sep 27 08.37 16190 Oct 16 05:11	0° ™	
max. Earth dist.	16189 Nov 09 00:13	0 x ⁴ 1° x ⁴16'36	1.33469 AU	morning set	16190 Oct 10 05:11 16190 Oct 19 05:30	5°M26'41	
max. Earth dist.	10109 NOV 09 13.22	1 × 10 30	1.33409 AU	max. Earth dist.	16190 Oct 19 03:30 16190 Oct 22 21:55	12°M22'09	1.35372 AU
superior conj	16189 Nov 13 20:56	10° ₹ 04'30	0°54'05	asc. node	16190 Oct 25 13:35	17°M32'08	1.55572 110
minimum elong	16189 Nov 13 18:38	9° х 52'20	0°54'21	use. Hode	10170 000 23 13.33	17 11032 00	
evening rise	16189 Nov 21 00:18	25° × ⁷ 21'06	0 3 1 2 1	superior conj	16190 Oct 28 15:51	23°M44'30	0°27'50
evening noe	16189 Nov 23 05:22	0°ਰ		minimum elong	16190 Oct 28 14:19	23°M36'42	0°28'05
desc. node	16189 Dec 10 02:33	27° පි 48'26			16190 Oct 31 16:55	0° ∡ ¹	
evening max el	16189 Dec 11 19:53	29° ට 36'03	21°57'25	evening rise	16190 Nov 05 08:18	9° ∡ ³39'09	
S	16189 Dec 12 05:50	0° ≈		C	16190 Nov 16 02:07	ರ°0	
retrograde	16189 Dec 24 06:47	5° ≈ 45'29		evening max el	16190 Nov 23 17:29	10° ට 01'49	20°27'41
evening set	16189 Dec 27 15:19	5° ≈ 20'22		desc. node	16190 Nov 26 23:35	12° る 47'50	
inferior conj	16190 Jan 05 04:41	1° ≈ 29'49	-6°00'39	retrograde	16190 Dec 04 17:22	15° る 29'53	
minimum elong	16190 Jan 05 02:22	1° ≈ 33'03	5°59'54	evening set	16190 Dec 07 01:19	15° ට 16'16	
min. Earth dist.	16190 Jan 05 01:13	1° ≈ 34'39	0.54412 AU	inferior conj	16190 Dec 15 20:37	11° ට 21'55	-5°16'16
	16190 Jan 07 22:28	30°Rる		minimum elong	16190 Dec 15 11:18	11° る 35'32	5°13'32
morning rise	16190 Jan 13 14:11	27° る 42'25		min. Earth dist.	16190 Dec 17 06:42	10°る32'04	0.54637 AU
direct	16190 Jan 17 02:41	27° ප 15'06		morning rise	16190 Dec 23 20:55	7° る 22'44	
	16190 Jan 25 11:27	0° ≈		direct	16190 Dec 28 11:14	6° ප 37'16	
morning max el	16190 Jan 29 11:39		21°55'36	morning max el	16191 Jan 10 22:14	13° ප 13'51	23°44'12
asc. node	16190 Feb 03 15:37	9° ≈ 08'07		asc. node	16191 Jan 21 12:53	26°る38'49	
	16190 Feb 15 22:29	0° ∀			16191 Jan 23 14:33	0° ≈	
morning set	16190 Feb 19 10:27	7° ∺ 13'27		morning set	16191 Feb 03 22:18	21°≈56'55	
	16100 E 1 26 12 20	222)/24122	101.4146		16191 Feb 07 15:22	0° ℋ	
superior conj	16190 Feb 26 13:29	22° H 21'20	1°14'46		16101 E 1 10 10 22	(0)/ (0)00	1000141
minimum elong	16190 Feb 26 15:54	22° ¥ 33'59 0° Y	1°14'37	superior conj	16191 Feb 10 18:22	6° ¥ 49'00 6° ¥ 58'33	1°28'41
max. Earth dist.	16190 Mar 02 06:09 16190 Mar 02 17:51	0° Y 0° Y 59'16	1.34411 AU	minimum elong max. Earth dist.	16191 Feb 10 20:08 16191 Feb 13 13:42	12° H 50'40	1°28'53 1.32806 AU
evening rise	16190 Mar 06 23:52	9° Υ 21'16	1.34411 AU	evening rise	16191 Feb 18 11:21	22° H 58'07	1.32800 AU
desc. node	16190 Mar 08 03:17	11° Υ 31'33		evening rise	16191 Feb 18 11.21 16191 Feb 22 01:53	22 γ (3807 0° γ	
desc. Hode	16190 Mar 18 16:10	0°8		desc. node	16191 Feb 22 23:56	1° Υ 43'54	
	16190 Apr 09 20:23	0°II		dese. Hode	16191 Mar 12 08:39	0°8	
evening max el	16190 Apr 11 01:23		26°50'48	evening max el	16191 Mar 24 14:22	14° 8 36'08	27°27'34
retrograde	16190 Apr 24 07:46	8° Ⅱ 40'53	20 00 .0	retrograde	16191 Apr 07 07:35	22° 8 08'51	2, 2, 3.
evening set	16190 Apr 30 19:11	6° Ⅱ 08'27		evening set	16191 Apr 14 01:17	19° 8 41'17	
asc. node	16190 May 02 12:54	4° Ⅱ 35'37		min. Earth dist.	16191 Apr 17 20:35	16° 8 16'27	0.64285 AU
min. Earth dist.	16190 May 04 18:21	2° Ⅱ 12'32	0.66113 AU	asc. node	16191 Apr 19 10:09	14° 8 37'25	
inferior conj	16190 May 06 21:15	29° 8 43'38	1°17'53	inferior conj	16191 Apr 20 11:41	13° 8 28'59	0°19'57
minimum elong	16190 May 06 19:27	29° 8 48'57	1°16'40	minimum elong	16191 Apr 20 11:07	13° 8 30'30	0°19'17
	16190 May 06 15:41	30° ₹ 8		morning rise	16191 Apr 26 23:10	8° 8 07'32	
morning rise	16190 May 12 21:00	24° 8 07'47		direct	16191 Apr 29 13:02	7° 8 33'42	
direct	16190 May 15 19:55	23° 8 19'48		morning max el	16191 May 05 21:06	10° 8 48'28	17°50'06
morning max el	16190 May 22 04:05	26° 8 38'43	18°10'31		16191 May 19 03:57	Π °0	
	16190 May 25 04:14	Π °0		desc. node	16191 May 22 01:04	4° Ⅱ 49'32	
desc. node	16190 Jun 04 04:08	14° Ⅱ 41'14		morning set	16191 May 22 23:00	6° Ⅲ 21'42	
morning set	16190 Jun 10 09:02	24° ∏ 37'31				_	
	16190 Jun 13 17:29	0_{\circ} වෙ		superior conj	16191 Jun 05 08:52	28° Ⅲ 27'14	
	4.6400 -		•••	minimum elong	16191 Jun 05 00:21	27° I 53'02	1°39'12
superior conj	16190 Jun 25 11:51	18°936'14		P 4 2	16191 Jun 06 08:02	0°9	1 45000 : **
minimum elong	16190 Jun 25 05:15	18°910'27	2~05.49	max. Earth dist.	16191 Jun 10 06:45	6° © 15'51	1.45336 AU

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minimum elong	16193 Apr 27 19:27	21° 8 03'38	0°25'45	behind sun begin	16194 Apr 10 06:34	3° 8 37'33	
	16193 May 02 23:13	0°II		behind sun end	16194 Apr 10 17:59	4° 8 30'52	
max. Earth dist.	16193 May 05 11:29	4° Ⅱ 13′26	1.42175 AU	desc. node	16194 Apr 11 15:26	6° 8 10'18	
evening rise	16193 May 10 19:56	12° Ⅱ 57'25		max. Earth dist.	16194 Apr 17 19:42	17° 8 15'44	1.39982 AU
•	16193 May 21 21:37	0ంతె		evening rise	16194 Apr 21 20:50	24° 8 10'50	
evening max el	16193 Jun 13 00:37	29° © 00'58	22°30'41		16194 Apr 25 09:32	Π°	
_	16193 Jun 14 01:02	$0^{\circ}\Omega$			16194 May 15 16:46	0ಂತಾ	
asc. node	16193 Jun 19 02:54	3° Ω 46′22		evening max el	16194 May 26 15:01	12°956'04	23°52'17
retrograde	16193 Jun 22 20:55	4° Ω 46'44		asc. node	16194 Jun 05 23:55	19° 5 21'50	
evening set	16193 Jun 27 18:10	2° Ω 43′20		retrograde	16194 Jun 06 15:25	19° © 23'37	
	16193 Jun 30 07:52	30° ℝ ∽		evening set	16194 Jun 12 00:23	17° ഇ 06'18	
inferior conj	16193 Jul 03 00:42	26° © 22'34	3°03'39	min. Earth dist.	16194 Jun 16 16:45	11° © 38'18	0.68912 AU
minimum elong	16193 Jul 02 23:50	26° © 25'34	3°02'54	inferior conj	16194 Jun 17 10:10	10° © 38'52	2°48'25
min. Earth dist.	16193 Jul 02 20:21	26° © 37'45	0.69159 AU	minimum elong	16194 Jun 17 08:32	10°9544'27	2°47'26
morning rise	16193 Jul 08 05:22	20° © 09'52		morning rise	16194 Jun 22 16:42	4° 9 34'54	
direct	16193 Jul 12 19:42	18° © 15'15		direct	16194 Jun 26 19:03	2° © 59'55	
desc. node	16193 Jul 21 18:05	23° © 24'57		morning max el	16194 Jul 04 16:31	7° 5 27'24	20°20'31
morning max el	16193 Jul 21 20:05	23° © 29'56	21°37'23	desc. node	16194 Jul 08 15:16	11° 9 50'48	
	16193 Jul 27 12:57	0 $^{\circ}\Omega$			16194 Jul 21 18:41	0 $^{\circ}$ Ω	
	16193 Aug 17 13:48	0° m		morning set	16194 Aug 02 02:53	17° Ω 07'01	
morning set	16193 Aug 22 17:28	8° Mp 01'53			16194 Aug 10 08:39	0° m y	
max. Earth dist.	16193 Aug 29 00:46	18° m 11'39	1.42331 AU	max. Earth dist.	16194 Aug 11 11:49	1°M)48'12	1.44192 AU
	16193 Sep 05 01:03	0∘ ⊽					
				superior conj	16194 Aug 17 13:34	11° m)38'23	-1°49'03
superior conj	16193 Sep 05 14:45	0° ჲ 59'12	-1°16'28	minimum elong	16194 Aug 17 21:27	12° m 10'50	1°48'37
minimum elong	16193 Sep 05 21:01	1° ≏ 26′20	1°15'39		16194 Aug 28 10:42	0० ত	
asc. node	16193 Sep 15 03:45	17° ≏ 59'18		evening rise	16194 Aug 30 07:38	3° ₽ 14'12	
evening rise	16193 Sep 16 15:36	20° ≏ 42'38		asc. node	16194 Sep 02 00:25	7° ₽ 54'33	
	16193 Sep 21 18:58	0° M		evening max el	16194 Sep 16 06:34	29° ₽ 19'21	18°01'31
evening max el	16193 Oct 02 16:33	16°M05'40	18°07'20		16194 Sep 16 23:47	0° M	
retrograde	16193 Oct 09 16:54	19° ™ 41'27		retrograde	16194 Sep 22 18:22	2°M41'52	
evening set	16193 Oct 11 21:50	19°M20'32		evening set	16194 Sep 25 07:08	2°M10'10	
desc. node	16193 Oct 17 15:12	15°M46'13			16194 Sep 28 16:09	30° ₹ Ω	
inferior conj	16193 Oct 19 02:09	14°M29'32		inferior conj	16194 Oct 01 19:37	26° ჲ 59'57	0°49'36
minimum elong	16193 Oct 19 01:12	14° M 31'40	0°27'01	minimum elong	16194 Oct 01 21:01	26° ≏ 56'22	0°49'20
min. Earth dist.	16193 Oct 22 07:25	11° M 37'36	0.59773 AU	min. Earth dist.	16194 Oct 04 17:22	24° ≏ 02'19	0.62064 AU
morning rise	16193 Oct 26 01:17	8°M50'36		desc. node	16194 Oct 04 12:30	24° ≙ 14'16	
direct	16193 Nov 01 15:12	6°M48′56		morning rise	16194 Oct 08 08:19	20° ≙ 55'58	
morning max el	16193 Nov 15 21:27	14°M34'45	27°47'04	direct	16194 Oct 15 00:47	18° ≏ 34'18	
	16193 Nov 28 08:39	0° ∡ ¹		morning max el	16194 Oct 29 03:37	26° ≏ 31'00	27°58'27
asc. node	16193 Dec 12 04:19	23° ∡ °25′18			16194 Nov 01 10:18	0° M ₊	
	16193 Dec 15 12:00	0°ප			16194 Nov 21 23:37	0° ∡ ¹	
morning set	16193 Dec 18 01:27	5° る 18'47		asc. node	16194 Nov 29 01:18	13° ∡ 10'57	
max. Earth dist.	16193 Dec 24 06:41	18° る 53'32	1.31030 AU	morning set	16194 Dec 02 01:20	19° ∡ 13'36	
					16194 Dec 07 03:12	0° ろ	
superior conj	16193 Dec 25 01:54	20° る 40'56	1°33'35	max. Earth dist.	16194 Dec 07 11:02	0° る 42'42	1.31526 AU
minimum elong	16193 Dec 25 00:39	20° る 33'58	1°34'12			_	
_	16193 Dec 29 06:06	0° ≈		superior conj	16194 Dec 09 11:29	5° ⋜ 08'56	1°23'06
evening rise	16193 Dec 31 18:45	5° ≈ 31'40		minimum elong	16194 Dec 09 09:28	4° る 57'49	1°23'36
	16194 Jan 13 10:49	0°) {		evening rise	16194 Dec 16 04:52	19°る58'48	
desc. node	16194 Jan 13 14:09	0°) 13′54			16194 Dec 20 23:43	0° ≈	
evening max el	16194 Jan 29 04:14	20° ¥ 50'48	26°08'14	desc. node	16194 Dec 31 10:59	18° ≈ 31'09	
retrograde	16194 Feb 12 03:23	27° ¥ 56′05			16195 Jan 09 11:02	0° ∀	
evening set	16194 Feb 18 07:19	26° ∺ 26′20		evening max el	16195 Jan 10 17:44	1° ∺ 16′07	24°38'51
min. Earth dist.	16194 Feb 22 17:25	23°) 48′26		retrograde	16195 Jan 24 10:51	8° ∺ 06'51	
inferior conj	16194 Feb 25 18:28	21°) 37'57		evening set	16195 Jan 29 18:15	7°) €04'40	
minimum elong	16194 Feb 26 03:00	21°) €22'39	3°44'42	min. Earth dist.	16195 Feb 04 05:39		0.55900 AU
morning rise	16194 Mar 06 01:53	17°) 14′12		inferior conj	16195 Feb 06 13:47	2°) 48′08	
direct	16194 Mar 08 01:05	17° 米 01′36		minimum elong	16195 Feb 06 22:48	2°) (34′03	5°07'32
asc. node	16194 Mar 10 02:08	17°) 15′51			16195 Feb 11 12:49	30°R ≈	
morning max el	16194 Mar 16 12:52	21°) 12′25	18°39'06	morning rise	16195 Feb 15 05:36	28° ≈ 45'12	
	16194 Mar 23 05:57	0°Υ		direct	16195 Feb 17 10:47	28°≈31'56	
morning set	16194 Apr 01 13:54	16° Y ′57′22			16195 Feb 22 23:00	0° \	
	16194 Apr 08 08:22	0° 8		asc. node	16195 Feb 24 23:29	1° 米 17'30	
				morning max el	16195 Feb 27 09:35	3° ¥ 22′03	19°37'25
superior conj	16194 Apr 10 11:38	4° 8 01'14			16195 Mar 15 23:44	0° Υ	
minimum elong	16194 Apr 10 12:16	4° 8 04'15	0°09'17	morning set	16195 Mar 16 17:03	1° Y 26'53	

superior conj	16195 Mar 24 17:21	17° Ƴ 31'17	0°39'51	superior conj	16196 Mar 07 10:36	1° Ƴ 30'39	1°03'50
minimum elong	16195 Mar 24 19:29	17° Ƴ 41'46	0°39'21	minimum elong	16196 Mar 07 13:08	1° Y 43'42	1°03'31
desc. node	16195 Mar 29 12:06	26° Ƴ '42'13		max. Earth dist.	16196 Mar 12 10:31	11° Y '32'31	1.35518 AU
max. Earth dist.	16195 Mar 31 01:55	29° Ƴ 37'47	1.37683 AU	desc. node	16196 Mar 15 08:46	17° Ƴ 09'47	
	16195 Mar 31 06:45	0°8		evening rise	16196 Mar 16 09:22	19° Y ′04'57	
avanina riaa	16195 Apr 03 18:21	6° 8 16'34		evening rise	16196 Mar 22 11:47	0°8	
evening rise						0°II	
	16195 Apr 18 07:40	0°П			16196 Apr 11 10:04		
evening max el	16195 May 09 04:22		25°10'49	evening max el	16196 Apr 20 17:55		26°19'09
	16195 May 12 16:36	0		retrograde	16196 May 03 15:49	18° Ⅲ 03′08	
retrograde	16195 May 21 06:04	3° 9 51'44		evening set	16196 May 09 22:11	15° Ⅲ 30'49	
asc. node	16195 May 23 20:59	3° 5 23'14		asc. node	16196 May 09 18:08	15° Ⅲ 39′01	
evening set	16195 May 27 02:19	1°524'20		min. Earth dist.	16196 May 14 00:15	11° Ⅱ 15′18	0.66987 AU
	16195 May 28 13:32	30° ₹ Ⅱ		inferior conj	16196 May 15 19:47	9° Ⅱ 01'48	1°45'05
min. Earth dist.	16195 May 31 10:43	26° I I33'20	0.68182 AU	minimum elong	16196 May 15 17:40	9° Ⅱ 08'18	1°43'47
inferior conj	16195 Jun 01 17:13	24° I 53'36	2°22'31	morning rise	16196 May 21 14:05	3° Ⅱ 18'42	1 15 17
5	16195 Jun 01 15:06	25° I 00'31	2°21'17	direct	•	2° Ⅱ 21'29	
minimum elong			2 21 17		16196 May 24 18:29		10020100
morning rise	16195 Jun 07 04:16	18° Ⅱ 59'29		morning max el	16196 May 31 06:39	5° Ⅱ 48'47	18°30'00
direct	16195 Jun 10 19:14	17° Ⅱ 44'07		desc. node	16196 Jun 11 09:26	20° Ⅱ 34'38	
morning max el	16195 Jun 17 20:14	21° Ⅱ 35′08	19°17'17		16196 Jun 17 11:07	0	
	16195 Jun 24 19:37	0 \circ \odot		morning set	16196 Jun 21 03:41	5° 5 48'08	
desc. node	16195 Jun 25 12:23	0° 9 57'44			16196 Jul 06 14:45	$0^{\circ}\Omega$	
greatest brilliancy	16195 Jun 30 13:13	8°912'54	-0.7m				
morning set	16195 Jul 12 07:41	26° © 04'34		superior conj	16196 Jul 07 00:04	0° Ω 36'19	-2°13'00
	16195 Jul 14 20:50	0° Ω		minimum elong	16196 Jul 06 21:16	0°Ω25'26	
max. Earth dist.	16195 Jul 25 04:08		1.45449 AU	max. Earth dist.	16196 Jul 06 23:27	0°Ω33'53	1.45993 AU
max. Earm dist.	10193 Jul 23 04.00	10 8 200 33	1.43449 AU				1.43993 AU
	16105 7 1 20 12 15	210 02222	2010100	evening rise	16196 Jul 22 19:30	25° Ω 21'53	
superior conj	16195 Jul 28 13:45	21° Ω 22'23			16196 Jul 25 18:02	0° m)	
minimum elong	16195 Jul 28 18:33	21° Q 41'20	2°10'29	greatest brilliancy	16196 Jul 31 04:35	8° m/32'08	-0.8m
	16195 Aug 02 23:36	0° m)		asc. node	16196 Aug 05 17:48	16° Mp 56′39	
evening rise	16195 Aug 12 02:07	14° m 49'48		evening max el	16196 Aug 13 09:50	26° Mp 40'20	18°44'08
asc. node	16195 Aug 19 21:05	27° m 35'33			16196 Aug 18 08:25	0∘ ত	
	16195 Aug 21 09:20	0∘ ⊽		retrograde	16196 Aug 20 00:25	0° ჲ 15'19	
evening max el	16195 Aug 30 21:20	12° ♀ 53'25	18°14'04	•	16196 Aug 21 15:41	30°R, Mp	
retrograde	16195 Sep 06 06:08	16° Ω 15'44		evening set	16196 Aug 23 07:15	29° m) 13'34	
evening set	16195 Sep 09 03:37	15° ⊆ 30'11		inferior conj	16196 Aug 28 21:58	23° m) 32'37	2°28'08
•	1		1947120		Č	~	
inferior conj	16195 Sep 15 03:29	10° 2 03'35	1°47'39	minimum elong	16196 Aug 29 00:08	23° m/25'51	2°27'29
minimum elong	16195 Sep 15 05:45	9° ₽ 57'05	1°47'00	min. Earth dist.	16196 Aug 30 18:11	21° m 15'13	0.66080 AU
min. Earth dist.	16195 Sep 17 13:21	7° ≏ 18'42	0.64220 AU	morning rise	16196 Sep 03 15:58	17° Mp 06'42	
morning rise	16195 Sep 21 06:08	3° ≏ 44'21		desc. node	16196 Sep 07 07:12	14° m 56'11	
desc. node	16195 Sep 21 09:51	3° ≏ 37'08		direct	16196 Sep 09 22:46	14° m 29'16	
direct	16195 Sep 27 19:49	1° ₽ 10′25		morning max el	16196 Sep 23 01:13	22° m 14'20	26°37'47
morning max el	16195 Oct 11 13:47	9° ഫ 08'18	27°32'57		16196 Sep 29 21:07	0∘ ⊽	
•	16195 Oct 27 21:20	0° M .			16196 Oct 20 03:10	0° M .	
	16195 Nov 14 07:37	0° ∡ ¹		morning set	16196 Oct 28 20:46	15°M39'50	
morning set	16195 Nov 15 16:45	2° ∡ ¹42'43		asc. node	16196 Nov 01 19:01	23°M16'58	
asc. node	16195 Nov 15 22:11	3° × 709'41		max. Earth dist.	16196 Nov 01 19:54	23°M21'20	1.34215 AU
			1 22505 ATT	max. Latin dist.			1.34213 AU
max. Earth dist.	16195 Nov 20 08:17	12° ∡ 11'49	1.32595 AU		16196 Nov 05 02:46	0° ∡ ¹	
	1/10/31 22 17 17	100 70000	100/100		1/10/31 0/ 17/21	20 7155	00.43143
superior conj	16195 Nov 23 17:17	19° 🗷 23'03	1°06'28	superior conj	16196 Nov 06 17:01	3° ⋌ 17'56	0°43'42
minimum elong	16195 Nov 23 14:55	19° ∡ 10'17	1°06'49	minimum elong	16196 Nov 06 14:56	3° ₮ 07'05	0°43'56
	16195 Nov 28 14:28	0°ಕ		evening rise	16196 Nov 14 01:15	18° ∡ ¹48'35	
evening rise	16195 Nov 30 15:38	4° る 25'43			16196 Nov 19 13:09	0°₹	
	16195 Dec 14 05:01	0°≈		evening max el	16196 Dec 03 17:54	21° る 18'34	21°17'06
desc. node	16195 Dec 18 07:54	5° ≈ 48'15		desc. node	16196 Dec 04 04:54	21° る 45'09	
evening max el	16195 Dec 23 03:05	11° ≈ 12'27	22°55'45	retrograde	16196 Dec 15 15:18	27° る 11'23	
retrograde	16196 Jan 05 05:23	17° ≈ 41'10		evening set	16196 Dec 18 11:38	26° る 52'36	
evening set	16196 Jan 09 07:29	17°≈04'51		inferior conj	16196 Dec 27 04:53	23° る 02'22	-5°48'59
min. Earth dist.	16196 Jan 16 12:44	17 ≈04 31 13°≈45'02	0.54705 AU	minimum elong	16196 Dec 26 22:49	23°る0222 23°る10'54	
				-			
inferior conj	16196 Jan 17 14:02	13°≈09'00		min. Earth dist.	16196 Dec 27 18:06		0.54393 AU
minimum elong	16196 Jan 17 17:13	13°≈04'27	5°57'28	morning rise	16197 Jan 04 10:18	19° る 12'01	
morning rise	16196 Jan 26 04:12	9° ≈ 19'34		direct	16197 Jan 08 09:54	18° る 37'40	
direct	16196 Jan 29 02:14	8° ≈ 59'45		morning max el	16197 Jan 21 07:38	24° る 54'31	22°40'39
morning max el	16196 Feb 09 15:44	14° ≈ 34'51	20°59'04		16197 Jan 25 22:05	0° ≈	
asc. node	16196 Feb 11 20:48	16° ≈ 54'19		asc. node	16197 Jan 28 18:04	3° ≈ 48'39	
	16196 Feb 20 19:12	0°)			16197 Feb 12 03:00	0° ∀	
morning set	16196 Feb 29 01:21	16° ¥ 06'43		morning set	16197 Feb 12 12:31	0° ¥ 50′26	
5	16196 Mar 06 17:00	0° Υ		5 ·			
		-					

	16107 F 1 10 12 02	1501/50110	1001106		161077 27 00 46	007	
superior conj	16197 Feb 19 12:03	15° ¥ 50′10	1°21'26		16197 Dec 27 08:46	0°る	
minimum elong	16197 Feb 19 14:15	16° 米 01'49	1°21'25	morning max el	16198 Jan 02 16:08	4° る 45'40	24°30'50
max. Earth dist.	16197 Feb 23 01:49	23° ¥ 20′58	1.33679 AU	asc. node	16198 Jan 15 15:18	21° る 42'31	
	16197 Feb 26 08:33	0° Y			16198 Jan 20 08:25	0° ≈	
evening rise	16197 Feb 27 14:23	2° Y 26'51		morning set	16198 Jan 28 00:32	15° ≈ 32'27	
desc. node	16197 Mar 02 05:27	7° Ƴ 29'05					
	16197 Mar 15 09:41	0° 8		superior conj	16198 Feb 03 19:01	0° ∺ 22'15	1°32'42
evening max el	16197 Apr 03 07:40	24° 8 17'49	27°09'36	minimum elong	16198 Feb 03 20:23	0°) €29'50	1°33'01
	16197 Apr 10 15:25	Π° 0			16198 Feb 03 14:57	0° ∀	
retrograde	16197 Apr 16 19:38	1° Ⅱ 49'25		max. Earth dist.	16198 Feb 06 00:59	5° ¥ 16'10	1.32275 AU
C	16197 Apr 22 10:42	30° ₹ 8		evening rise	16198 Feb 11 06:08	16° ¥ 13'48	
evening set	16197 Apr 23 09:58	29° 8 18'27		desc. node	16198 Feb 17 02:09	27°) 35'28	
asc. node	16197 Apr 26 15:21	26° 8 18'59			16198 Feb 18 09:35	0°Υ	
min. Earth dist.	16197 Apr 27 07:18	25° 8 35'57	0.65375 AU		16198 Mar 10 00:34	%B	
inferior conj	16197 Apr 29 15:29	22° 8 57'45	0°54'59	evening max el	16198 Mar 16 20:09	7° 8 30'37	27°34'50
minimum elong	16197 Apr 29 14:05	23° 8 01'44	0°53'57	retrograde	16198 Mar 30 16:20	15° 8 01'31	27 34 30
C	-	_	0 33 37	-		13° 8 38'42	
morning rise	16197 May 05 19:52	17° 8 27'30		evening set	16198 Apr 06 11:21	_	0.60415.477
direct	16197 May 08 14:45	16° 8 45'56		min. Earth dist.	16198 Apr 10 05:55	9° 8 25'16	0.63415 AU
morning max el	16197 May 14 21:57	20° 8 01'54	17°59'38	inferior conj	16198 Apr 13 01:27	6° 8 34'19	
	16197 May 22 14:49	Π \circ 0		minimum elong	16198 Apr 13 01:44	6° 8 33'36	0°09'05
desc. node	16197 May 29 06:25	10° Ⅲ 33'23		transit middle	16198 Apr 13 01:44	6° 8 33'36	0°09'05
morning set	16197 Jun 02 02:11	16° Ⅱ 48'18		transit begin	16198 Apr 12 23:08	6° 8 40'14	
	16197 Jun 10 05:19	0 \circ \odot		transit end	16198 Apr 13 04:21	6° 8 26'58	
				asc. node	16198 Apr 13 12:38	6° 8 06'01	
superior conj	16197 Jun 16 12:34	10°901'47	-1°56'06	morning rise	16198 Apr 19 18:40	1° 8 19'23	
minimum elong	16197 Jun 16 04:24	9° 5 29'30	1°56'12	direct	16198 Apr 22 05:09	0° 8 50'25	
max. Earth dist.	16197 Jun 19 19:48	15°9512'58	1.45789 AU	morning max el	16198 Apr 28 15:33	4° 8 06'56	17°46'41
max. Earth dist.	16197 Jun 29 08:28	0°Ω	1.43707710	morning set	16198 May 15 02:54	29° 8 03'11	17 4041
evening rise	16197 Jul 02 14:55	5° Ω 01'40		morning set	16198 May 15 16:10	29 О 03 11	
•			0.7	4 4-	•	0° П 47'46	
greatest brilliancy	16197 Jul 15 22:57	25° Ω 12'54	-0.7m	desc. node	16198 May 16 03:20	0°Д4/46	
	16197 Jul 19 06:32	0° m)			1610034 07 10 10	200 T 1 510 C	100.4150
asc. node	16197 Jul 23 14:34	5° m 50'05		superior conj	16198 May 27 18:13	20° Ⅱ 17'06	
evening max el	16197 Jul 27 17:45	10° Mp 33'08	19°30'41	minimum elong	16198 May 27 10:29	19° ∏ 45'32	
retrograde	16197 Aug 03 22:10	14° m 33'15		max. Earth dist.	16198 Jun 02 15:00	29° Ⅱ 43'46	1.44860 AU
evening set	16197 Aug 07 15:03	13° m) 13'50			16198 Jun 02 19:05	0	
inferior conj	16197 Aug 12 23:53	7° m y 19'57	2°53'39	evening rise	16198 Jun 12 01:29	14° © 26'22	
minimum elong	16197 Aug 13 01:24	7° Mp 14'55	2°53'06		16198 Jun 22 09:36	$0 {\circ} \Omega$	
min. Earth dist.	16197 Aug 14 06:04	5° m 40'07	0.67546 AU	asc. node	16198 Jul 10 11:24	24° Ω 06'45	
morning rise	16197 Aug 18 11:12	0° m 53'28		evening max el	16198 Jul 10 19:45	24° Ω 27'47	20°31'55
	16197 Aug 19 14:02	30° ₽ Ω		retrograde	16198 Jul 18 21:14	29° Ω 04'14	
direct	16197 Aug 24 08:11	28° Ω 20'57		evening set	16198 Jul 23 00:44	27° Ω 26'49	
desc. node	16197 Aug 25 04:36	28° Ω 23'48		inferior conj	16198 Jul 28 06:39	21° Ω 21'06	3°06'20
	16197 Aug 29 15:24	0° m)		minimum elong	16198 Jul 28 07:16	21° Ω 18'59	3°05'47
morning max el	16197 Sep 05 12:18	5° mp 37'28	25°21'57	min. Earth dist.	16198 Jul 28 23:03	20° Ω 24'42	0.68558 AU
morning max cr	16197 Sep 24 09:07	ე∘ <u>ი</u>	23 21 37	morning rise	16198 Aug 02 13:30	14°Ω58'06	0.00330710
mamina sat	16197 Oct 11 09:35	ა _ 27° ჲ 55'32		direct		12° Ω 37'06	
morning set					16198 Aug 07 22:57	13° Ω 44'29	
F 41 F 4	16197 Oct 12 13:06	0°M	1 2/202 ATT	desc. node	16198 Aug 12 01:57		22055100
max. Earth dist.	16197 Oct 14 22:41	4°M25'45	1.36303 AU	morning max el	16198 Aug 18 23:18	19° Ω 11'37	25-55.00
asc. node	16197 Oct 19 15:48	13°M28'03			16198 Aug 28 03:13	0° m/y	
					16198 Sep 17 11:58	0∘ ⊽	
superior conj	16197 Oct 21 07:44	16°M45'35	0°15'01	morning set	16198 Sep 23 03:06	9° ჲ 20'51	
minimum elong	16197 Oct 21 06:49	16° M 41'01	0°15'18	max. Earth dist.	16198 Sep 26 21:36	15° ≙ 53'11	1.38674 AU
behind sun begin	16197 Oct 21 04:47	16° ™ 30'55					
behind sun end	16197 Oct 21 08:50	16°M51'07		superior conj	16198 Oct 04 09:52	29° ≏ 37'41	-0°18'44
	16197 Oct 27 20:06	0° ∡ ¹		minimum elong	16198 Oct 04 11:11	29° ≏ 43'54	0°18'13
evening rise	16197 Oct 29 07:33	3° ∡ 01′27		-	16198 Oct 04 14:35	0° M	
Ü	16197 Nov 14 00:02	0°ප		asc. node	16198 Oct 06 12:32	3° ™ 39'24	
evening max el	16197 Nov 15 21:46	2° る 04'24	19°55'47	evening rise	16198 Oct 13 08:00	16°M58'14	
desc. node	16197 Nov 21 02:00	5°る57'13	1, 00 11		16198 Oct 20 04:26	0° ⊼	
	16197 Nov 26 04:35	3 3 3713 7° る 12'11		evening max el	16198 Oct 20 04.20 16198 Oct 29 15:50	13° ∡ 40'14	18°56'35
retrograde				-			10 30 33
evening set	16197 Nov 28 06:42	7°る00'28	49.42107	retrograde	16198 Nov 07 09:26	18°×704'33	
inferior conj	16197 Dec 07 00:50	3°る01'11		desc. node	16198 Nov 07 23:11	18° ∡ *03'28	
minimum elong	16197 Dec 06 14:48	3° ⋜ 16′29		evening set	16198 Nov 09 06:49	17° ∡ 52'58	
min. Earth dist.	16197 Dec 09 00:41	1° る 48'13	0.55020 AU	inferior conj	16198 Nov 17 13:58	13° ∡ ³35′13	
	16197 Dec 12 06:10	30°Ŗ ⋌ 7		minimum elong	16198 Nov 17 06:29	13° ∡ ⁴48'22	2°59'37
morning rise	16197 Dec 14 21:45	28° ∡ 51′23		min. Earth dist.	16198 Nov 20 11:55	11° ∡ ³32'35	0.56462 AU
direct	16197 Dec 19 22:29	27° ₹ ¹56'02		morning rise	16198 Nov 25 03:22	8° ₰ 751'14	

				(),		,	12.
direct	16198 Nov 30 23:29	7° ∡ ³30'40		morning max el	16199 Nov 26 21:44	25°M26'10	27°22'47
morning max el	16198 Dec 15 03:02	14° ∡ ¹46'33	26°10'52	C	16199 Dec 01 03:56	0° ∡ ¹	
S	16198 Dec 27 06:41	ರ°0		asc. node	16199 Dec 20 09:35	29° ∡ ³32'20	
asc. node	16199 Jan 02 12:29	10° る 20'59			16199 Dec 20 15:26	8°0	
morning set	16199 Jan 12 11:34	0° ≈ 07'30		morning set	16199 Dec 27 19:50	14° る 30'53	
S	16199 Jan 12 10:10	0° ≈		Ü			
				superior conj	16200 Jan 03 16:36	29° る 38'42	1°36'52
superior conj	16199 Jan 19 05:10	15°≈00'14	1°37'48	minimum elong	16200 Jan 03 15:55	29° る 34'50	1°37'30
minimum elong	16199 Jan 19 05:32	15° ≈ 02'15	1°38'21	max. Earth dist.	16200 Jan 03 13:34	29° ට 21'40	1.30988 AU
max. Earth dist.	16199 Jan 20 05:59	17° ≈ 18′21	1.31367 AU		16200 Jan 03 20:24	0° ≈	
evening rise	16199 Jan 26 05:48	0°) 18′37		evening rise	16200 Jan 10 11:05	14° ≈ 35'52	
	16199 Jan 26 02:15	0° ∀		-	16200 Jan 18 02:18	0° ∀	
desc. node	16199 Feb 03 22:52	17°) 22'39		desc. node	16200 Jan 21 19:37	6°) 43′16	
	16199 Feb 11 10:43	$0^{\circ}\Upsilon$			16200 Feb 07 10:59	$0^{\circ}\Upsilon$	
evening max el	16199 Feb 27 04:47	20° Ƴ ′04'38	27°28'33	evening max el	16200 Feb 09 07:04	1° Y 49'47	26°47'20
retrograde	16199 Mar 13 04:47	27° Y 28'51		retrograde	16200 Feb 23 07:47	9° Y 03'32	
evening set	16199 Mar 19 23:33	25° Ƴ 21'24		evening set	16200 Mar 01 19:20	7° Υ 18′23	
min. Earth dist.	16199 Mar 23 18:34	22° Y ′30'25	0.61220 AU	min. Earth dist.	16200 Mar 05 20:57	4° Υ ′39'32	0.58964 AU
inferior conj	16199 Mar 26 22:13	19° Ƴ 41'30	-1°26'33	inferior conj	16200 Mar 09 02:00	2° Y ′09'50	
minimum elong	16199 Mar 27 01:20	19° Ƴ 34'30	1°25'27	minimum elong	16200 Mar 09 08:43	1° Y 56'44	2°52'34
asc. node	16199 Mar 31 09:58	16° Y ′06′29			16200 Mar 12 00:03	30°R) €	
morning rise	16199 Apr 03 06:26	14° Y '44'54		morning rise	16200 Mar 17 01:41	27°) 33'57	
direct	16199 Apr 05 10:00	14° Υ 25'11		asc. node	16200 Mar 18 07:16	27° ∺ 21'56	
morning max el	16199 Apr 12 08:16	17° Υ 53'46	17°51'39	direct	16200 Mar 19 00:57	27°) 19'56	
morning max cr	16199 Apr 21 01:26	0°8	17 3137	uncer	16200 Mar 25 12:24	0° Υ	
morning set	16199 Apr 28 00:18	12° 8 14'50		morning max el	16200 Mar 26 20:30	1° Υ 12'16	18°15'47
desc. node	16199 Apr 28 00:18	21° 8 11'59		morning set	16200 Apr 11 12:42	26°Υ°06'45	10 1347
desc. node	16199 May 08 00:43	0° Ⅱ		morning set	16200 Apr 11 12.42 16200 Apr 13 14:06	0° 8	
	10199 May 06 00.43	υш		desc. node	16200 Apr 19 20:54	11° 8 42'06	
aumariar aani	16100 May 09 22:04	1° Ⅲ 36′06	0947124	desc. node	10200 Apr 19 20.34	11 04200	
superior conj	16199 May 08 23:04	1° Д 36'06			16200 A 21 02:07	13° 8 54'48	0010100
minimum elong	16199 May 08 18:49	1°Щ1/32 13°Щ47'44		superior conj	16200 Apr 21 02:07	_	
max. Earth dist.	16199 May 16 06:11		1.43296 AU	minimum elong	16200 Apr 21 01:18	13° 8 51'07	0-10-26
evening rise	16199 May 22 19:34	24° Ⅱ 16'19		behind sun begin	16200 Apr 20 19:36	13° 8 25'20	
	16199 May 26 12:17	0°©		behind sun end	16200 Apr 21 07:00	14° 8 16'51	1 41071 411
	16199 Jun 16 11:00	0° N	2104450	max. Earth dist.	16200 Apr 28 16:10	27° 8 12'03	1.41271 AU
evening max el	16199 Jun 23 15:48	8° Ω 21'40	21°44'58		16200 Apr 30 08:05	0°П	
asc. node	16199 Jun 27 08:19	11° Ω 33'37		evening rise	16200 May 03 08:09	4° ∏ 57'14	
retrograde	16199 Jul 02 19:45	13° Ω 41'59			16200 May 19 17:17	0°50	22005115
evening set	16199 Jul 07 10:24	11°Ω47'25		evening max el	16200 Jun 06 07:31	22°515'38	23°05'15
inferior conj	16199 Jul 12 16:01	5° Ω 31'24		asc. node	16200 Jun 14 05:17	27°554'44	
minimum elong	16199 Jul 12 15:40	5° Ω 32'35	3°07'02	retrograde	16200 Jun 16 16:11	28° © 20'36	
min. Earth dist.	16199 Jul 12 19:06	5° Ω 20'38	0.69082 AU	evening set	16200 Jun 21 18:21	26°©10'53	
	16199 Jul 17 01:14	30°ℝજ઼		min. Earth dist.	16200 Jun 26 16:03	20° © 21'06	0.69112 AU
morning rise	16199 Jul 17 20:46	29° © 14'22		inferior conj	16200 Jun 27 01:59	19° © 46'40	2°58'28
direct	16199 Jul 22 17:59	27° © 09'28		minimum elong	16200 Jun 27 00:47	19° © 50'53	2°57'37
	16199 Jul 29 06:38	0 \circ Ω		morning rise	16200 Jul 02 07:07	13° © 37'21	
desc. node	16199 Jul 29 23:14	0° Ω 33'40		direct	16200 Jul 06 16:12	11° © 51'07	
morning max el	16199 Aug 01 11:53	2° Ω 54'01	22°26'09	morning max el	16200 Jul 15 04:42	16° © 45'14	21°03'07
	16199 Aug 22 03:08	0° m)		desc. node	16200 Jul 16 20:27	18° © 29'14	
morning set	16199 Sep 03 21:44	19° m 48'19			16200 Jul 25 22:59	0 \circ Ω	
max. Earth dist.	16199 Sep 08 22:31	28° Mp 06'32	1.41058 AU	morning set	16200 Aug 14 17:13	29° Ω 17'43	
	16199 Sep 10 01:24	0∘ ⊽			16200 Aug 15 04:03	0° m)	
				max. Earth dist.	16200 Aug 22 05:10	11° m 12'40	1.43182 AU
superior conj	16199 Sep 16 19:15	11° ≏ 44'54	-0°55'27				
minimum elong	16199 Sep 16 23:42	12° ≏ 04'46	0°54'39	superior conj	16200 Aug 29 07:33	22° m 57'48	-1°31'14
asc. node	16199 Sep 23 09:16	23° ₽ 47'39		minimum elong	16200 Aug 29 14:53	23° m 28'49	1°30'30
evening rise	16199 Sep 26 23:22	0° ™ 30'56			16200 Sep 02 10:10	0∘ ⊽	
	16199 Sep 26 16:47	0° M		evening rise	16200 Sep 10 01:22	13° ≏ 28'12	
evening max el	16199 Oct 12 21:00	26° ML $02'01$	18°19'24	asc. node	16200 Sep 10 05:58	13° ≏ 48'41	
retrograde	16199 Oct 20 09:38	29°M52'07			16200 Sep 19 14:49	0° M	
evening set	16199 Oct 22 10:32	29°M35'55		evening max el	16200 Sep 26 09:00	8° ጤ 59'44	18°02'35
desc. node	16199 Oct 25 20:23	28°M03'57		retrograde	16200 Oct 03 02:52	12°M28'13	
inferior conj	16199 Oct 30 00:53	24°M57'02	-1°20'57	evening set	16200 Oct 05 10:55	12°M03'13	
minimum elong	16199 Oct 29 21:48	25°M03'21	1°19'09	inferior conj	16200 Oct 12 08:12	7° M 04'04	0°07'26
min. Earth dist.	16199 Nov 02 06:55	22°M17'24	0.58470 AU	minimum elong	16200 Oct 12 08:27	7°M03'29	0°07'42
morning rise	16199 Nov 06 05:36	19°M36'12		transit middle	16200 Oct 12 08:27	7° ™ 03'29	0°07'42
direct	16199 Nov 12 14:49	17° M .48'41		transit begin	16200 Oct 12 05:34	7° ™ 10'20	
	=					0	

transit end	16200 Oct 12 11:20	6°M56'37		inferior conj	16201 Sep 25 08:18	19° ≏ 49'32	1°16'29
desc. node	16200 Oct 12 17:40	6°M41'30		minimum elong	16201 Sep 25 10:14	19° - 44'21	1°16'00
min. Earth dist.	16200 Oct 12 17:40	4°M06'53	0.60749 AU	min. Earth dist.	16201 Sep 28 01:25	16° ≏ 55'17	0.63017 AU
morning rise	16200 Oct 19 02:53	1°M13'08	0.00747710	desc. node	16201 Sep 29 14:58	15° ⊆ 22'40	0.03017 710
	16200 Oct 21 08:14	30°R Ω		morning rise	16201 Oct 01 16:39	13° ₽ 38'12	
direct	16200 Oct 25 18:43	29° Ω 01'44		direct	16201 Oct 08 08:45	11° ⊆ 10'04	
	16200 Oct 30 10:11	0°M		morning max el	16201 Oct 22 08:08	19° ഫ 08'10	27°51'37
morning max el	16200 Nov 09 00:09	6°M54'01	27°56'41	morning must vi	16201 Oct 31 14:06	0°M	2, 515,
	16200 Nov 26 12:30	0° ⊼ 7	_, _,		16201 Nov 19 11:01	0° ⊼ ¹	
asc. node	16200 Dec 07 06:37	19° √ 07'01		asc. node	16201 Nov 24 03:35	8° х 58'37	
morning set	16200 Dec 11 23:21	28° ∡ 36′50		morning set	16201 Nov 25 19:55	12° ∡ 20'46	
	16200 Dec 12 15:11	0°ප		max. Earth dist.	16201 Nov 30 21:30	22° x ⁷ 56'45	1.31915 AU
max. Earth dist.	16200 Dec 17 19:56	11° る 16'46	1.31164 AU	man. Barar alov.	102011101 30 21.50	22 % 50 %	1.51710110
				superior conj	16201 Dec 03 11:37	28° х 33'59	1°16'48
superior conj	16200 Dec 19 03:23	14° る 11'30	1°29'53	minimum elong	16201 Dec 03 09:23	28° × ⁷ 21'48	1°17'14
minimum elong	16200 Dec 19 01:46	14° る 02'32	1°30'28	mmmum viong	16201 Dec 04 03:18	0°중	1 1/11
evening rise	16200 Dec 25 19:55	28° る 59'59	1 30 20	evening rise	16201 Dec 10 06:31	13° る 27'12	
	16200 Dec 26 07:02	0° ≈		* * * * * * * * * * * * * * * * * * *	16201 Dec 18 10:38	0° ≈	
desc. node	16201 Jan 08 16:25	25°≈26'39		desc. node	16201 Dec 26 13:17	13° ≈ 19'53	
dese. node	16201 Jan 11 15:19	0° ∀		evening max el	16202 Jan 03 12:13	22°≈50'55	23°55'34
evening max el	16201 Jan 22 01:12	12°) 41'48	25°33'04	retrograde	16202 Jan 17 00:22	29° ≈ 32'47	23 55 5 .
retrograde	16201 Feb 04 23:00	19°) 41'48	20 33 0 1	evening set	16202 Jan 21 20:04	28°≈42'26	
evening set	16201 Feb 10 19:03	18° H 23'54		min. Earth dist.	16202 Jan 27 23:45	25°≈42'40	0.55296 AU
min. Earth dist.	16201 Feb 15 14:02	15°) 43'10	0.56888 AU	inferior conj	16202 Jan 29 20:00	24°≈36'51	
inferior conj	16201 Feb 18 09:31	13°) (49'32		minimum elong	16202 Jan 30 03:22	24°≈25'52	
3	16201 Feb 18 18:51	13°) (49'32'	4°22'01	•	16202 Feb 07 12:20	24 ≈23 32 20°≈40'35	3 34 36
minimum elong		9° ∺ 34'55	4-22-01	morning rise direct			
morning rise	16201 Feb 26 21:32				16202 Feb 09 23:27	20°≈25'15	
direct	16201 Feb 28 21:53	9°) €22'43		asc. node	16202 Feb 20 01:54	25°≈04'23	20000122
asc. node	16201 Mar 05 04:35	10°) €21'15	10001105	morning max el	16202 Feb 20 14:40	25°≈34'36	20°09'23
morning max el	16201 Mar 10 00:02	13°) (49'45	19°01'05		16202 Feb 24 11:52	0°) {	
	16201 Mar 21 01:09	0°Υ 10° Ω 25110		morning set	16202 Mar 10 17:11	24°) €59'46	
morning set	16201 Mar 26 11:31	10° ℃ 25'18			16202 Mar 13 03:44	0° Υ	
superior conj	16201 Apr 03 23:19	27° Y ′01'44	0°23'13	superior conj	16202 Mar 18 10:20	10° Ƴ 44'43	0°50'50
	16201 Apr 03 23:19 16201 Apr 04 00:45	27°Υ08'33	0°22'42		16202 Mar 18 12:45	10 γ 44 43 10° γ 56'51	0°50'22
minimum elong	•		0 22 42	minimum elong max. Earth dist.		22°Υ03'02	1.36733 AU
JJ.	16201 Apr 05 12:56	0°8 2°814'13		desc. node	16202 Mar 24 05:31	22° Y 44'24	1.30/33 AU
desc. node	16201 Apr 06 17:37		1 20002 411		16202 Mar 24 14:18		
max. Earth dist.	16201 Apr 10 22:40	9° 8 54'26	1.39002 AU	evening rise	16202 Mar 27 23:28	28° Y 58'36	
evening rise	16201 Apr 14 18:06	16° 8 33'53			16202 Mar 28 13:06	0° ∀	
	16201 Apr 22 22:14	0° I I			16202 Apr 16 05:13	0°П 200 П 05112	25041142
	16201 May 14 06:22	0°©		evening max el	16202 May 02 10:54	20° Ⅱ 05'13	25°41'42
evening max el	16201 May 19 21:19	6°9511'10	24°26'33	retrograde	16202 May 14 21:45	27° Ⅱ 16'10	
retrograde	16201 May 31 09:13	12°954'23		asc. node	16202 May 18 23:23	26° Ⅱ 09'15	
asc. node	16201 Jun 01 02:17	12°552'15		evening set	16202 May 20 22:31	24° Ⅱ 46'13	
evening set	16201 Jun 05 22:57	10° © 32'33		min. Earth dist.	16202 May 25 04:08	20° Ⅲ 10'31	0.67729 AU
min. Earth dist.	16201 Jun 10 11:48	5° © 20'06	0.68657 AU	inferior conj	16202 May 26 16:07	18° ∐ 15'46	2°08'07
inferior conj	16201 Jun 11 10:42	4° 5 03'09	2°38'48	minimum elong	16202 May 26 13:56	18° Ⅲ 22'45	2°06'50
minimum elong	16201 Jun 11 08:49	4° © 09'29	2°37'42	morning rise	16202 Jun 01 05:54	12° Ⅲ 26′03	
	16201 Jun 14 16:16	30°RⅡ		direct	16202 Jun 04 16:22	11° Ⅱ 18'27	
morning rise	16201 Jun 16 18:48	28° Ⅱ 02'57		morning max el	16202 Jun 11 10:45	14° Ⅱ 57'30	18°55'09
direct	16201 Jun 20 16:13	26° Ⅱ 36′16		desc. node	16202 Jun 20 14:43	26° Ⅱ 34'44	
	16201 Jun 27 08:18	0			16202 Jun 22 22:31	0 \circ	
morning max el	16201 Jun 28 04:06	0°946'59	19°51'41	greatest brilliancy	16202 Jun 24 19:08	2° © 47'30	-0.7m
desc. node	16201 Jul 03 17:37	7° ॐ 14′04		morning set	16202 Jul 04 07:28	17° © 24'37	
	16201 Jul 19 12:50	$0 {\circ} \Omega$			16202 Jul 12 10:16	0 $^{\circ}$ Ω	
morning set	16201 Jul 24 22:17	8° Ω 13′02		max. Earth dist.	16202 Jul 18 12:49	9° Ω 30'42	1.45780 AU
max. Earth dist.	16201 Aug 04 18:27	25° Ω 05'42	1.44811 AU				
	16201 Aug 07 20:25	0° m/		superior conj	16202 Jul 20 13:04	12° Ω 39'30	-2°13'51
				minimum elong	16202 Jul 20 14:53	12° Ω 46′39	2°14'24
superior conj	16201 Aug 09 20:24	3° Mp 12'47	-1°59'52		16202 Jul 31 11:51	0° m	
minimum elong	16201 Aug 10 03:42	3° Mp 42'14	1°59'45	evening rise	16202 Aug 04 16:51	6° Mp 46′04	
evening rise	16201 Aug 23 08:52	25° m 37'25		asc. node	16202 Aug 14 23:20	23° m)11'41	
	16201 Aug 25 22:51	0∘ ⊽			16202 Aug 19 13:45	0∘ ⊽	
asc. node	16201 Aug 28 02:39	3° ॒ 38'35		evening max el	16202 Aug 24 14:03	6° ₽ 04'09	18°24'45
evening max el	16201 Sep 09 23:52	22° ჲ 23'45	18°04'42	retrograde	16202 Aug 31 00:06	9° م 30'02	
retrograde	16201 Sep 16 09:07	25° ≏ 44'10		evening set	16202 Sep 03 01:36	8° ≏ 37'38	
evening set	16201 Sep 19 01:36	25° Ω 06'51		inferior conj	16202 Sep 08 21:08	ვ° ჲ 04'32	2°06'47
5	г			3	r =		•

minimum elong	16202 Sep 08 23:27	2° ₽ 57'37	2°06'07	evening set	16203 Aug 18 07:20	22° m 28'59	
min. Earth dist.	16202 Sep	2 _ 3/3/ 0° _ 30'11	0.65062 AU	inferior conj	16203 Aug 23 19:09	16° m) 42'03	2°40'38
mm. Latti dist.	16202 Sep 11 01:12 16202 Sep 11 11:46	30°RM)	0.03002710	minimum elong	16203 Aug 23 21:05	16° Mp 35'50	2°40'02
morning rise	16202 Sep 14 19:56	26° Mp 41'47		min. Earth dist.	16203 Aug 25 09:17	14° m) 39'55	0.66759 AU
desc. node	16202 Sep 16 12:19	25° m/30'10		morning rise	16203 Aug 29 10:03	10° m) 15'09	0.00757110
direct	16202 Sep 21 07:06	24° m) 05'34		desc. node	16203 Sep 03 09:42	7° m) 44'10	
	16202 Oct 02 17:27	0° 0		direct	16203 Sep 04 12:48	7° m) 39'12	
morning max el	16202 Oct 04 19:06	1° ≏ 58'50	27°12'34	morning max el	16203 Sep 17 06:45	15° m) 14'04	26°07'27
	16202 Oct 25 19:02	0° M	_,,		16203 Sep 29 10:34	0∘ ⊽	
morning set	16202 Nov 09 06:53	25°M36'51			16203 Oct 18 14:37	0° M	
asc. node	16202 Nov 11 00:28	29°ML01'28		morning set	16203 Oct 23 04:56	8°M17'22	
	16202 Nov 11 12:12	0° ∡ 7		max. Earth dist.	16203 Oct 26 22:54	15°M23'35	1.35057 AU
max. Earth dist.	16202 Nov 13 15:05	4° ∡ 17'50	1.33226 AU	asc. node	16203 Oct 28 21:18	19°ML10'43	
superior conj	16202 Nov 17 15:10	12° ∡ ¹40'35	0°57'34	superior conj	16203 Nov 01 11:26	26°M24'25	0°32'12
minimum elong	16202 Nov 17 12:49	12° ∡ ¹28'08	0°57'50	minimum elong	16203 Nov 01 09:43	26°M15'40	0°32'26
evening rise	16202 Nov 24 17:04	27° ∡ 753′11		Č	16203 Nov 03 05:17	0° ∡ ¹	
S	16202 Nov 25 16:59	6°0		evening rise	16203 Nov 09 01:35	12° ₹ 12'26	
desc. node	16202 Dec 13 10:14	0° ≈ 05'35		C	16203 Nov 18 05:34	ರ°0	
	16202 Dec 13 08:19	0° ≈		evening max el	16203 Nov 27 18:18	13° පි 06'10	20°39'52
evening max el	16202 Dec 15 22:40	2° ≈ 46'33	22°12'13	desc. node	16203 Nov 30 07:18	15° る 20'46	
retrograde	16202 Dec 28 13:57	9° ≈ 01'30		retrograde	16203 Dec 09 00:06	18° ප් 41'05	
evening set	16203 Jan 01 03:01	8° ≈ 33'44		evening set	16203 Dec 11 10:44	18° ට 26'27	
min. Earth dist.	16203 Jan 09 05:19	4° ≈ 55'17	0.54458 AU	inferior conj	16203 Dec 20 05:52	14°る33'30	-5°26'34
inferior conj	16203 Jan 09 14:39	4° ≈ 42'13	-6°02'02	minimum elong	16203 Dec 19 21:09	14°₹46′06	5°24'11
minimum elong	16203 Jan 09 13:48	4° ≈ 43'25	6°01'24	min. Earth dist.	16203 Dec 21 10:46	13° る 51'44	0.54541 AU
morning rise	16203 Jan 18 01:33	0° ≈ 54'58		morning rise	16203 Dec 28 07:24	10° ට 37'10	
direct	16203 Jan 21 10:07	0° ≈ 29'53		direct	16204 Jan 01 17:53	9° ට 54'49	
morning max el	16203 Feb 02 14:18	6° ≈ 22'56	21°40'25	morning max el	16204 Jan 15 02:03	16° る 26'44	23°27'38
asc. node	16203 Feb 06 23:13	11° ≈ 16′26		asc. node	16204 Jan 24 20:30	28° る 38'00	
	16203 Feb 18 08:44	0°) €			16204 Jan 25 17:34	0° ≈	
morning set	16203 Feb 23 03:00	9°) 42′28		morning set	16204 Feb 07 14:45	24° ≈ 26′02	
C				C	16204 Feb 10 04:37	0° ∀	
superior conj	16203 Mar 02 07:29	24°) 53′54	1°12'06				
minimum elong	16203 Mar 02 09:56	25°) €06'46	1°11'53	superior conj	16204 Feb 14 11:35	9°) 19'38	1°26'58
-	16203 Mar 04 18:39	0 ° Υ		minimum elong	16204 Feb 14 13:28	9° ∺ 29'49	1°27'07
max. Earth dist.	16203 Mar 06 17:01	3° Y 54'42	1.34684 AU	max. Earth dist.	16204 Feb 17 11:36	15°) 44′24	1.33017 AU
evening rise	16203 Mar 10 20:53	12° Y '02'21		evening rise	16204 Feb 22 06:49	25° ¥ 35′23	
, ,		12 1 02 21				23 /(33 23	
desc. node	16203 Mar 11 10:59	12 γ 02 21 13° γ 09'05		<i>Q</i>	16204 Feb 24 12:53	0° Υ	
desc. node		13° Y ′09′05		desc. node			
desc. node	16203 Mar 11 10:59			C	16204 Feb 24 12:53	$0^{\circ}\mathbf{\Upsilon}$	
evening max el	16203 Mar 11 10:59 16203 Mar 20 23:36	13° Y 09'05 0° ႘	26°43'13	C	16204 Feb 24 12:53 16204 Feb 26 07:40	0°Υ 3°Υ23'16	27°23'45
	16203 Mar 11 10:59 16203 Mar 20 23:36 16203 Apr 11 08:32 16203 Apr 15 00:40	13°Y09'05 0°₩ 0°Щ	26°43'13	desc. node	16204 Feb 24 12:53 16204 Feb 26 07:40 16204 Mar 13 09:55 16204 Mar 27 13:49	0°Υ 3°Υ23'16 0°႘	27°23'45
evening max el	16203 Mar 11 10:59 16203 Mar 20 23:36 16203 Apr 11 08:32 16203 Apr 15 00:40 16203 Apr 28 04:57	13°Y09'05 0°В 0°П 3°П51'03	26°43'13	desc. node evening max el retrograde	16204 Feb 24 12:53 16204 Feb 26 07:40 16204 Mar 13 09:55 16204 Mar 27 13:49 16204 Apr 10 05:56	0°Υ 3°Υ23'16 0°႘ 17°႘18'07	27°23'45
evening max el retrograde	16203 Mar 11 10:59 16203 Mar 20 23:36 16203 Apr 11 08:32 16203 Apr 15 00:40 16203 Apr 28 04:57 16203 May 04 15:12	13°Y09'05 0°В 0°П 3°П51'03 11°П18'22	26°43'13	desc. node	16204 Feb 24 12:53 16204 Feb 26 07:40 16204 Mar 13 09:55 16204 Mar 27 13:49 16204 Apr 10 05:56 16204 Apr 16 22:52	0°Υ 3°Υ23'16 0°႘ 17°႘18'07 24°႘51'09	27°23'45 0.64576 AU
evening max el retrograde evening set	16203 Mar 11 10:59 16203 Mar 20 23:36 16203 Apr 11 08:32 16203 Apr 15 00:40 16203 Apr 28 04:57	13°Y09'05 0°႘ 0°║ 3°爪51'03 11°爪18'22 8°爪45'38	26°43'13 0.66354 AU	desc. node evening max el retrograde evening set	16204 Feb 24 12:53 16204 Feb 26 07:40 16204 Mar 13 09:55 16204 Mar 27 13:49 16204 Apr 10 05:56	0°Y 3°Y23'16 0°8 17°818'07 24°851'09 22°822'24	
evening max el retrograde evening set asc. node	16203 Mar 11 10:59 16203 Mar 20 23:36 16203 Apr 11 08:32 16203 Apr 15 00:40 16203 Apr 28 04:57 16203 May 04 15:12 16203 May 05 20:32	13°Y09'05 0°႘ 0°Д 3°Д51'03 11°Д18'22 8°Д45'38 7°Д41'38 4°Д44'51		desc. node evening max el retrograde evening set min. Earth dist.	16204 Feb 24 12:53 16204 Feb 26 07:40 16204 Mar 13 09:55 16204 Mar 27 13:49 16204 Apr 10 05:56 16204 Apr 16 22:52 16204 Apr 20 18:35	0°Y 3°Y23'16 0°8 17°818'07 24°851'09 22°822'24 18°853'09	
evening max el retrograde evening set asc. node min. Earth dist.	16203 Mar 11 10:59 16203 Mar 20 23:36 16203 Apr 11 08:32 16203 Apr 15 00:40 16203 Apr 28 04:57 16203 May 04 15:12 16203 May 05 20:32 16203 May 08 15:02	13°Y09'05 0°႘ 0°Д 3°Д51'03 11°Д18'22 8°Д45'38 7°Д41'38 4°Д44'51	0.66354 AU 1°25'29	desc. node evening max el retrograde evening set min. Earth dist. asc. node	16204 Feb 24 12:53 16204 Feb 26 07:40 16204 Mar 13 09:55 16204 Mar 27 13:49 16204 Apr 10 05:56 16204 Apr 16 22:52 16204 Apr 20 18:35 16204 Apr 21 17:47	0°Y 3°Y23'16 0°℧ 17°℧18'07 24°℧51'09 22°℧22'24 18°℧53'09 17°℧51'23	0.64576 AU
evening max el retrograde evening set asc. node min. Earth dist. inferior conj	16203 Mar 11 10:59 16203 Mar 20 23:36 16203 Apr 11 08:32 16203 Apr 15 00:40 16203 Apr 28 04:57 16203 May 04 15:12 16203 May 05 20:32 16203 May 08 15:02 16203 May 10 16:05	13°Υ09'05 0°႘ 0°Π 3°Π51'03 11°Π18'22 8°Π45'38 7°Π41'38 4°Π44'51 2°Π19'32	0.66354 AU 1°25'29	desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj	16204 Feb 24 12:53 16204 Feb 26 07:40 16204 Mar 13 09:55 16204 Mar 27 13:49 16204 Apr 10 05:56 16204 Apr 16 22:52 16204 Apr 20 18:35 16204 Apr 21 17:47 16204 Apr 23 07:59	0°Y 3°Y23'16 0°8 17°818'07 24°851'09 22°822'24 18°853'09 17°851'23 16°807'32	0.64576 AU 0°29'39
evening max el retrograde evening set asc. node min. Earth dist. inferior conj	16203 Mar 11 10:59 16203 Mar 20 23:36 16203 Apr 11 08:32 16203 Apr 15 00:40 16203 Apr 28 04:57 16203 May 04 15:12 16203 May 05 20:32 16203 May 08 15:02 16203 May 10 16:05 16203 May 10 14:10	13° Y 09'05 0° В 0° П 3° П 51'03 11° П 18'22 8° П 45'38 7° П 41'38 4° П 44'51 2° П 19'32 2° П 25'14	0.66354 AU 1°25'29	desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong	16204 Feb 24 12:53 16204 Feb 26 07:40 16204 Mar 13 09:55 16204 Mar 27 13:49 16204 Apr 10 05:56 16204 Apr 16 22:52 16204 Apr 20 18:35 16204 Apr 21 17:47 16204 Apr 23 07:59 16204 Apr 23 07:09	0°Y 3°Y23'16 0°8 17°818'07 24°851'09 22°822'24 18°853'09 17°851'23 16°807'32 16°809'46	0.64576 AU 0°29'39
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	16203 Mar 11 10:59 16203 Mar 20 23:36 16203 Apr 11 08:32 16203 Apr 15 00:40 16203 Apr 28 04:57 16203 May 04 15:12 16203 May 05 20:32 16203 May 10 16:05 16203 May 10 16:05 16203 May 10 14:10 16203 May 12 16:43	13°Y09'05 0°器 0°用 3°用51'03 11°用18'22 8°用45'38 7°用41'38 4°用44'51 2°用19'32 2°用25'14 30°R&	0.66354 AU 1°25'29	desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise	16204 Feb 24 12:53 16204 Feb 26 07:40 16204 Mar 13 09:55 16204 Mar 27 13:49 16204 Apr 10 05:56 16204 Apr 16 22:52 16204 Apr 20 18:35 16204 Apr 21 17:47 16204 Apr 23 07:59 16204 Apr 23 07:09 16204 Apr 29 17:32	0°Y 3°Y23'16 0°℧ 17°℧18'07 24°℧51'09 22°℧22'24 18°℧53'09 17°℧51'23 16°℧07'32 16°℧09'46 10°℧43'48 10°℧8'07	0.64576 AU 0°29'39
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	16203 Mar 11 10:59 16203 Mar 20 23:36 16203 Apr 11 08:32 16203 Apr 15 00:40 16203 Apr 28 04:57 16203 May 04 15:12 16203 May 05 20:32 16203 May 08 15:02 16203 May 10 16:05 16203 May 10 14:10 16203 May 12 16:43 16203 May 16 14:20	13°Y09'05 0°႘ 0°Ⅱ 3°Ⅲ51'03 11°Ⅲ18'22 8°Ⅲ45'38 7°Ⅲ41'38 4°Ⅲ44'51 2°Ⅲ19'32 2°Ⅲ25'14 30°R႘ 26°႘41'51	0.66354 AU 1°25'29	desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct	16204 Feb 24 12:53 16204 Feb 26 07:40 16204 Mar 13 09:55 16204 Mar 27 13:49 16204 Apr 10 05:56 16204 Apr 16 22:52 16204 Apr 20 18:35 16204 Apr 21 17:47 16204 Apr 23 07:59 16204 Apr 23 07:09 16204 Apr 29 17:32 16204 May 02 08:38	0°Y 3°Y23'16 0°℧ 17°℧18'07 24°℧51'09 22°℧22'24 18°℧53'09 17°℧51'23 16°℧07'32 16°℧09'46 10°℧43'48 10°℧08'07	0.64576 AU 0°29'39 0°28'52
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct	16203 Mar 11 10:59 16203 Mar 20 23:36 16203 Apr 11 08:32 16203 Apr 15 00:40 16203 Apr 28 04:57 16203 May 04 15:12 16203 May 05 20:32 16203 May 08 15:02 16203 May 10 16:05 16203 May 10 14:10 16203 May 12 16:43 16203 May 16 14:20 16203 May 19 14:39	13°Y09'05 0°႘ 0°Д 3°Д51'03 11°Д18'22 8°Д45'38 7°Д41'38 4°Д44'51 2°Д19'32 2°Д25'14 30°R& 26°႘41'51 25°႘51'34	0.66354 AU 1°25'29 1°24'15	desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct	16204 Feb 24 12:53 16204 Feb 26 07:40 16204 Mar 13 09:55 16204 Mar 27 13:49 16204 Apr 10 05:56 16204 Apr 16 22:52 16204 Apr 20 18:35 16204 Apr 21 17:47 16204 Apr 23 07:59 16204 Apr 23 07:09 16204 Apr 29 17:32 16204 May 02 08:38 16204 May 08 16:16	0°Y 3°Y23'16 0°8 17°818'07 24°851'09 22°822'24 18°853'09 17°851'23 16°807'32 16°809'46 10°843'48 10°808'07 13°822'54	0.64576 AU 0°29'39 0°28'52
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct	16203 Mar 11 10:59 16203 Mar 20 23:36 16203 Apr 11 08:32 16203 Apr 15 00:40 16203 Apr 28 04:57 16203 May 04 15:12 16203 May 05 20:32 16203 May 08 15:02 16203 May 10 16:05 16203 May 10 14:10 16203 May 12 16:43 16203 May 16 14:20 16203 May 19 14:39 16203 May 25 23:36	13°Y09'05 0°႘ 0°Д 3°Д51'03 11°Д18'22 8°Д45'38 7°Д41'38 4°Д44'51 2°Д19'32 2°Д25'14 30°R& 26°႘41'51 25°႘51'34 29°႘12'11	0.66354 AU 1°25'29 1°24'15	desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el	16204 Feb 24 12:53 16204 Feb 26 07:40 16204 Mar 13 09:55 16204 Mar 27 13:49 16204 Apr 10 05:56 16204 Apr 16 22:52 16204 Apr 20 18:35 16204 Apr 21 17:47 16204 Apr 23 07:59 16204 Apr 23 07:09 16204 Apr 29 17:32 16204 May 02 08:38 16204 May 08 16:16 16204 May 20 11:11	0°Y 3°Y23'16 0°℧ 17°℧18'07 24°℧51'09 22°℧22'24 18°℧53'09 17°℧51'23 16°℧07'32 16°℧09'46 10°℧43'48 10°℧08'07 13°℧22'54 0°Ⅱ	0.64576 AU 0°29'39 0°28'52
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el	16203 Mar 11 10:59 16203 Mar 20 23:36 16203 Apr 11 08:32 16203 Apr 15 00:40 16203 Apr 28 04:57 16203 May 04 15:12 16203 May 05 20:32 16203 May 08 15:02 16203 May 10 16:05 16203 May 10 14:10 16203 May 12 16:43 16203 May 16 14:20 16203 May 19 14:39 16203 May 25 23:36 16203 May 26 18:32	13°Y09'05 0°Ы 0°П 3°П51'03 11°П18'22 8°П45'38 7°П41'38 4°П44'51 2°П19'32 2°П25'14 30°RЫ 26°Ы41'51 25°Ы51'34 29°Ы12'11 0°П	0.66354 AU 1°25'29 1°24'15	desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node	16204 Feb 24 12:53 16204 Feb 26 07:40 16204 Mar 13 09:55 16204 Mar 27 13:49 16204 Apr 10 05:56 16204 Apr 16 22:52 16204 Apr 20 18:35 16204 Apr 21 17:47 16204 Apr 23 07:59 16204 Apr 23 07:09 16204 Apr 29 17:32 16204 May 02 08:38 16204 May 08 16:16 16204 May 20 11:11 16204 May 24 08:43	0°Y 3°Y23'16 0°℧ 17°℧18'07 24°℧51'09 22°℧22'24 18°℧53'09 17°℧51'23 16°℧09'46 10°℧43'48 10°℧8'07 13°℧22'54 0°Ⅲ 6°Ⅲ27'33	0.64576 AU 0°29'39 0°28'52
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	16203 Mar 11 10:59 16203 Mar 20 23:36 16203 Apr 11 08:32 16203 Apr 15 00:40 16203 Apr 28 04:57 16203 May 04 15:12 16203 May 05 20:32 16203 May 08 15:02 16203 May 10 16:05 16203 May 10 14:10 16203 May 12 16:43 16203 May 16 14:20 16203 May 19 14:39 16203 May 25 23:36 16203 May 26 18:32 16203 Jun 07 11:46	13°Y09'05 0°႘ 0°Ⅱ 3°Ⅲ51'03 11°Ⅲ18'22 8°Ⅲ45'38 7°Ⅲ41'38 4°Ⅲ44'51 2°Ⅲ19'32 2°Ⅲ25'14 30°R႘ 26°႘41'51 25°႘51'34 29°႘12'11 0°Ⅲ 16°Ⅲ21'48	0.66354 AU 1°25'29 1°24'15	desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node	16204 Feb 24 12:53 16204 Feb 26 07:40 16204 Mar 13 09:55 16204 Mar 27 13:49 16204 Apr 10 05:56 16204 Apr 16 22:52 16204 Apr 20 18:35 16204 Apr 21 17:47 16204 Apr 23 07:59 16204 Apr 23 07:09 16204 Apr 29 17:32 16204 May 02 08:38 16204 May 08 16:16 16204 May 20 11:11 16204 May 24 08:43 16204 May 26 00:15	0°Y 3°Y23'16 0°℧ 17°℧18'07 24°℧51'09 22°℧22'24 18°℧53'09 17°℧51'23 16°℧07'32 16°℧09'46 10°℧43'48 10°℧08'07 13°℧22'54 0°Ⅲ 6°Ⅲ27'33 9°Ⅲ12'25	0.64576 AU 0°29'39 0°28'52
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	16203 Mar 11 10:59 16203 Mar 20 23:36 16203 Apr 11 08:32 16203 Apr 15 00:40 16203 Apr 28 04:57 16203 May 04 15:12 16203 May 05 20:32 16203 May 10 16:05 16203 May 10 14:10 16203 May 10 14:10 16203 May 10 14:39 16203 May 10 14:39 16203 May 25 23:36 16203 May 26 18:32 16203 Jun 07 11:46 16203 Jun 14 14:11	13°Y09'05 0°႘ 0°Ⅱ 3°Ⅲ51'03 11°Ⅲ18'22 8°Ⅲ45'38 7°Ⅲ41'38 4°Ⅲ44'51 2°Ⅲ19'32 2°Ⅲ25'14 30°R႘ 26°႘41'51 25°႘51'34 29°႘12'11 0°Ⅲ 16°Ⅲ21'48 27°Ⅲ39'36	0.66354 AU 1°25'29 1°24'15	desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node	16204 Feb 24 12:53 16204 Feb 26 07:40 16204 Mar 13 09:55 16204 Mar 27 13:49 16204 Apr 10 05:56 16204 Apr 16 22:52 16204 Apr 20 18:35 16204 Apr 21 17:47 16204 Apr 23 07:59 16204 Apr 23 07:09 16204 Apr 29 17:32 16204 May 02 08:38 16204 May 08 16:16 16204 May 20 11:11 16204 May 24 08:43 16204 May 26 00:15	0°Y 3°Y23'16 0°℧ 17°℧18'07 24°℧51'09 22°℧22'24 18°℧53'09 17°℧51'23 16°℧07'32 16°℧09'46 10°℧43'48 10°℧08'07 13°℧22'54 0°Ⅲ 6°Ⅲ27'33 9°Ⅲ12'25	0.64576 AU 0°29'39 0°28'52 17°52'02
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	16203 Mar 11 10:59 16203 Mar 20 23:36 16203 Apr 11 08:32 16203 Apr 15 00:40 16203 Apr 28 04:57 16203 May 04 15:12 16203 May 05 20:32 16203 May 10 16:05 16203 May 10 14:10 16203 May 10 14:10 16203 May 10 14:39 16203 May 10 14:39 16203 May 25 23:36 16203 May 26 18:32 16203 Jun 07 11:46 16203 Jun 14 14:11	13°Y09'05 0°႘ 0°Ⅱ 3°Ⅲ51'03 11°Ⅲ18'22 8°Ⅲ45'38 7°Ⅲ41'38 4°Ⅲ44'51 2°Ⅲ19'32 2°Ⅲ25'14 30°R႘ 26°႘41'51 25°႘51'34 29°႘12'11 0°Ⅲ 16°Ⅲ21'48 27°Ⅲ39'36	0.66354 AU 1°25'29 1°24'15	desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set	16204 Feb 24 12:53 16204 Feb 26 07:40 16204 Mar 13 09:55 16204 Mar 27 13:49 16204 Apr 10 05:56 16204 Apr 20 18:35 16204 Apr 21 17:47 16204 Apr 23 07:59 16204 Apr 23 07:59 16204 Apr 29 17:32 16204 May 02 08:38 16204 May 02 08:38 16204 May 08 16:16 16204 May 24 08:43 16204 May 26 00:15 16204 Jun 07 16:35	0°Y 3°Y23'16 0°℧ 17°℧18'07 24°℧51'09 22°℧22'24 18°℧53'09 17°℧51'23 16°℧07'32 16°℧09'46 10°℧43'48 10°℧08'07 13°℧22'54 0°Ⅲ 6°Ⅲ27'33 9°Ⅲ12'25 0°郖	0.64576 AU 0°29'39 0°28'52 17°52'02
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	16203 Mar 11 10:59 16203 Mar 20 23:36 16203 Apr 11 08:32 16203 Apr 15 00:40 16203 Apr 28 04:57 16203 May 04 15:12 16203 May 05 20:32 16203 May 10 16:05 16203 May 10 14:10 16203 May 12 16:43 16203 May 16 14:20 16203 May 16 14:20 16203 May 25 23:36 16203 May 26 18:32 16203 Jun 07 11:46 16203 Jun 14 14:11 16203 Jun 16 01:22	13°Y09'05 0°႘ 0°Ⅱ 3°Ⅲ51'03 11°Ⅲ18'22 8°Ⅲ45'38 7°Ⅲ41'38 4°Ⅲ44'51 2°Ⅲ19'32 2°Ⅲ25'14 30°₨ 26°႘41'51 25°ੴ51'34 29°ੴ12'11 0°Ⅲ 16°Ⅲ21'48 27°Ⅲ39'36 0°©	0.66354 AU 1°25'29 1°24'15	desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set	16204 Feb 24 12:53 16204 Feb 26 07:40 16204 Mar 13 09:55 16204 Mar 27 13:49 16204 Apr 10 05:56 16204 Apr 20 18:35 16204 Apr 21 17:47 16204 Apr 23 07:59 16204 Apr 23 07:59 16204 Apr 29 17:32 16204 May 02 08:38 16204 May 02 08:38 16204 May 24 08:43 16204 May 26 00:15 16204 Jun 07 16:35	0°Y 3°Y23'16 0°℧ 17°℧18'07 24°℧51'09 22°℧22'24 18°℧53'09 17°℧51'23 16°℧07'32 16°℧09'46 10°℧43'48 10°℧08'07 13°℧22'54 0°Ⅱ 6°Ⅱ27'33 9°Ⅱ12'25 0°郖	0.64576 AU 0°29'39 0°28'52 17°52'02
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	16203 Mar 11 10:59 16203 Mar 20 23:36 16203 Apr 11 08:32 16203 Apr 15 00:40 16203 Apr 28 04:57 16203 May 04 15:12 16203 May 05 20:32 16203 May 10 16:05 16203 May 10 14:10 16203 May 12 16:43 16203 May 16 14:20 16203 May 19 14:39 16203 May 26 18:32 16203 May 26 18:32 16203 Jun 07 11:46 16203 Jun 14 14:11 16203 Jun 16 01:22	13°Y09'05 0°႘ 0°Ⅱ 3°Ⅲ51'03 11°Ⅲ18'22 8°Ⅲ45'38 7°Ⅲ41'38 4°Ⅲ44'51 2°Ⅲ19'32 2°Ⅲ25'14 30°ℝ႘ 26°႘41'51 25°႘51'34 29°႘12'11 0°Ⅲ 16°Ⅲ21'48 27°Ⅲ39'36 0°Թ	0.66354 AU 1°25'29 1°24'15 18°15'03	desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set	16204 Feb 24 12:53 16204 Feb 26 07:40 16204 Mar 13 09:55 16204 Mar 27 13:49 16204 Apr 10 05:56 16204 Apr 16 22:52 16204 Apr 20 18:35 16204 Apr 21 17:47 16204 Apr 23 07:59 16204 Apr 23 07:09 16204 Apr 29 17:32 16204 May 02 08:38 16204 May 02 08:38 16204 May 24 08:43 16204 May 26 00:15 16204 Jun 07 16:35 16204 Jun 08 16:37 16204 Jun 08 08:01	0°Y 3°Y23'16 0°8 17°818'07 24°851'09 22°822'24 18°853'09 17°851'23 16°807'32 16°809'46 10°843'48 10°808'07 13°822'54 0°Ⅲ 6°Ⅲ27'33 9°Ⅲ12'25 0°9 1°\$36'07 1°\$01'44	0.64576 AU 0°29'39 0°28'52 17°52'02 -1°44'07 1°44'02
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	16203 Mar 11 10:59 16203 Mar 20 23:36 16203 Apr 11 08:32 16203 Apr 15 00:40 16203 Apr 28 04:57 16203 May 04 15:12 16203 May 05 20:32 16203 May 10 16:05 16203 May 10 14:10 16203 May 10 14:43 16203 May 16 14:20 16203 May 17 14:39 16203 May 25 23:36 16203 May 26 18:32 16203 Jun 07 11:46 16203 Jun 14 14:11 16203 Jun 16 01:22	13°Υ09'05 0°႘ 0°Π 3°Π51'03 11°Π18'22 8°Π45'38 7°Π41'38 4°Π44'51 2°Π19'32 2°Π25'14 30°R႘ 26°႘41'51 25°႘51'34 29°႘12'11 0°Π 16°Π21'48 27°Π39'36 0°© 21°©52'37 21°©52'37	0.66354 AU 1°25'29 1°24'15 18°15'03 -2°08'03 2°08'29	desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set	16204 Feb 24 12:53 16204 Feb 26 07:40 16204 Mar 13 09:55 16204 Mar 27 13:49 16204 Apr 10 05:56 16204 Apr 16 22:52 16204 Apr 20 18:35 16204 Apr 21 17:47 16204 Apr 23 07:59 16204 Apr 23 07:09 16204 Apr 29 17:32 16204 May 02 08:38 16204 May 08 16:16 16204 May 20 11:11 16204 May 24 08:43 16204 May 26 00:15 16204 Jun 07 16:35 16204 Jun 08 16:37 16204 Jun 08 08:01 16204 Jun 08 08:01 16204 Jun 13 05:08	0°Y 3°Y23'16 0°8 17°818'07 24°851'09 22°822'24 18°853'09 17°851'23 16°807'32 16°809'46 10°843'48 10°808'07 13°822'54 0°Ⅲ 6°Ⅲ27'33 9°Ⅲ12'25 0°© 1°©36'07 1°©01'44 8°©45'54	0.64576 AU 0°29'39 0°28'52 17°52'02 -1°44'07 1°44'02
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	16203 Mar 11 10:59 16203 Mar 20 23:36 16203 Apr 11 08:32 16203 Apr 15 00:40 16203 Apr 28 04:57 16203 May 04 15:12 16203 May 05 20:32 16203 May 10 16:05 16203 May 10 14:10 16203 May 12 16:43 16203 May 16 14:20 16203 May 17 14:39 16203 May 25 23:36 16203 May 26 18:32 16203 Jun 07 11:46 16203 Jun 14 14:11 16203 Jun 16 01:22 16203 Jun 29 22:09 16203 Jun 29 16:24 16203 Jul 01 09:22	13°Y09'05 0°႘ 0°Ⅱ 3°Ⅲ51'03 11°Ⅲ18'22 8°Ⅲ45'38 7°Ⅲ41'38 4°Ⅲ44'51 2°Ⅲ19'32 2°Ⅲ25'14 30°ℵ႘ 26°႘41'51 25°႘51'34 29°႘12'11 0°Ⅲ 16°Ⅲ21'48 27°Ⅲ39'36 0°© 21°©52'37 21°©30'10 24°©09'58	0.66354 AU 1°25'29 1°24'15 18°15'03 -2°08'03 2°08'29	desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set	16204 Feb 24 12:53 16204 Feb 26 07:40 16204 Mar 13 09:55 16204 Mar 27 13:49 16204 Apr 10 05:56 16204 Apr 20 18:35 16204 Apr 21 17:47 16204 Apr 23 07:59 16204 Apr 23 07:59 16204 Apr 29 17:32 16204 May 02 08:38 16204 May 08 16:16 16204 May 20 11:11 16204 May 24 08:43 16204 May 26 00:15 16204 Jun 07 16:35 16204 Jun 08 16:37 16204 Jun 08 16:37 16204 Jun 08 08:01 16204 Jun 13 05:08 16204 Jun 24 13:36	0°Y 3°Y23'16 0°℧ 17°℧18'07 24°℧51'09 22°℧22'24 18°℧53'09 17°℧51'23 16°℧07'32 16°℧09'46 10°℧43'48 10°℧8'07 13°℧22'54 0°Ⅲ 6°Ⅲ27'33 9°Ⅲ12'25 0°郖 1°郖36'07 1°郖01'44 8°郖45'54 26°郖21'04	0.64576 AU 0°29'39 0°28'52 17°52'02 -1°44'07 1°44'02
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 superior conj minimum elong max. Earth dist.	16203 Mar 11 10:59 16203 Mar 20 23:36 16203 Apr 11 08:32 16203 Apr 15 00:40 16203 Apr 28 04:57 16203 May 04 15:12 16203 May 05 20:32 16203 May 10 16:05 16203 May 10 14:10 16203 May 10 14:10 16203 May 10 14:20 16203 May 10 14:39 16203 May 25 23:36 16203 May 25 23:36 16203 May 26 18:32 16203 Jun 07 11:46 16203 Jun 14 14:11 16203 Jun 16 01:22 16203 Jun 29 22:09 16203 Jun 29 16:24 16203 Jul 01 09:22 16203 Jul 05 03:17	13°Y09'05 0°႘ 0°Ⅱ 3°Ⅲ51'03 11°Ⅲ18'22 8°Ⅲ45'38 7°Ⅲ41'38 4°Ⅲ44'51 2°Ⅲ19'32 2°Ⅲ25'14 30°ℵ႘ 26°႘41'51 25°႘51'34 29°႘12'11 0°Ⅲ 16°Ⅲ21'48 27°Ⅲ39'36 0°፵ 21°Ლ52'37 21°Ლ30'10 24°Ლ09'58 0°Ω	0.66354 AU 1°25'29 1°24'15 18°15'03 -2°08'03 2°08'29	desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set superior conj minimum elong max. Earth dist. evening rise	16204 Feb 24 12:53 16204 Feb 26 07:40 16204 Mar 13 09:55 16204 Mar 27 13:49 16204 Apr 10 05:56 16204 Apr 20 18:35 16204 Apr 21 17:47 16204 Apr 23 07:59 16204 Apr 23 07:59 16204 Apr 29 17:32 16204 May 02 08:38 16204 May 02 08:38 16204 May 20 11:11 16204 May 20 11:11 16204 May 24 08:43 16204 May 26 00:15 16204 Jun 07 16:35 16204 Jun 08 16:37 16204 Jun 08 08:01 16204 Jun 13 05:08 16204 Jun 24 13:36 16204 Jun 26 22:59	0°Y 3°Y23'16 0°℧ 17°℧18'07 24°℧51'09 22°℧22'24 18°℧53'09 17°℧51'23 16°℧09'46 10°℧43'48 10°℧8'07 13°℧22'54 0°Ⅲ 6°Ⅲ27'33 9°Ⅲ12'25 0°亞 1°巠36'07 1°巠01'44 8°巠45'54 26°巠21'04 0°Ω	0.64576 AU 0°29'39 0°28'52 17°52'02 -1°44'07 1°44'02 1.45472 AU
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 superior conj minimum elong max. Earth dist.	16203 Mar 11 10:59 16203 Mar 20 23:36 16203 Apr 11 08:32 16203 Apr 15 00:40 16203 Apr 28 04:57 16203 May 04 15:12 16203 May 05 20:32 16203 May 10 16:05 16203 May 10 14:10 16203 May 12 16:43 16203 May 12 16:43 16203 May 15 14:20 16203 May 25 23:36 16203 May 26 18:32 16203 May 26 18:32 16203 Jun 07 11:46 16203 Jun 14 14:11 16203 Jun 16 01:22 16203 Jun 29 16:24 16203 Jun 29 16:24 16203 Jun 07 10:22 16203 Jun 10 09:22 16203 Jul 01 09:22 16203 Jul 05 03:17 16203 Jul 16 00:02	13°Y09'05 0°႘ 0°Ⅱ 3°Ⅲ51'03 11°Ⅲ18'22 8°Ⅲ45'38 7°Ⅲ41'38 4°Ⅲ44'51 2°Ⅲ19'32 2°Ⅲ25'14 30°ℵ႘ 26°႘41'51 25°႘51'34 29°႘12'11 0°Ⅲ 16°Ⅲ21'48 27°Ⅲ39'36 0°© 21°©52'37 21°©30'10 24°©09'58 0°Ω 16°Ω53'29	0.66354 AU 1°25'29 1°24'15 18°15'03 -2°08'03 2°08'29	desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set superior conj minimum elong max. Earth dist. evening rise	16204 Feb 24 12:53 16204 Feb 26 07:40 16204 Mar 13 09:55 16204 Mar 27 13:49 16204 Apr 10 05:56 16204 Apr 20 18:35 16204 Apr 21 17:47 16204 Apr 23 07:59 16204 Apr 23 07:59 16204 Apr 29 17:32 16204 May 02 08:38 16204 May 02 08:38 16204 May 20 11:11 16204 May 20 11:11 16204 May 24 08:43 16204 May 26 00:15 16204 Jun 07 16:35 16204 Jun 08 16:37 16204 Jun 08 08:01 16204 Jun 13 05:08 16204 Jun 26 22:59 16204 Jul 09 07:07	0°Y 3°Y23'16 0°℧ 17°℧18'07 24°℧51'09 22°℧22'24 18°℧53'09 17°℧51'23 16°℧07'32 16°℧08'07 13°℧22'54 0°Ⅲ 6°Ⅲ27'33 9°Ⅲ12'25 0°亞 1°ሜ36'07 1°ሜ01'44 8°ሜ45'54 26°ሜ21'04 0°Ω 18°Ω25'30	0.64576 AU 0°29'39 0°28'52 17°52'02 -1°44'07 1°44'02 1.45472 AU
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 superior conj minimum elong max. Earth dist. evening rise	16203 Mar 11 10:59 16203 Mar 20 23:36 16203 Apr 11 08:32 16203 Apr 15 00:40 16203 Apr 28 04:57 16203 May 04 15:12 16203 May 05 20:32 16203 May 10 16:05 16203 May 10 14:10 16203 May 12 16:43 16203 May 12 16:43 16203 May 15 14:39 16203 May 25 23:36 16203 May 26 18:32 16203 May 26 18:32 16203 Jun 07 11:46 16203 Jun 14 14:11 16203 Jun 16 01:22 16203 Jun 29 22:09 16203 Jun 29 16:24 16203 Jul 01 09:22 16203 Jul 05 03:17 16203 Jul 16 00:02 16203 Jul 16 00:02 16203 Jul 24 11:10	13°Y09'05 0°8 0°11 3°1151'03 11°118'22 8°145'38 7°1141'38 4°1144'51 2°119'32 2°125'14 30°88 26°841'51 25°851'34 29°812'11 0°11 16°1121'48 27°139'36 0°9 21°952'37 21°930'10 24°909'58 0°0 16°053'29 0°10	0.66354 AU 1°25'29 1°24'15 18°15'03 -2°08'03 2°08'29 1.46004 AU	desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	16204 Feb 24 12:53 16204 Feb 26 07:40 16204 Mar 13 09:55 16204 Mar 27 13:49 16204 Apr 10 05:56 16204 Apr 20 18:35 16204 Apr 21 17:47 16204 Apr 23 07:59 16204 Apr 23 07:59 16204 Apr 29 17:32 16204 May 02 08:38 16204 May 02 08:38 16204 May 20 11:11 16204 May 20 11:11 16204 May 24 08:43 16204 Jun 07 16:35 16204 Jun 08 16:37 16204 Jun 08 08:01 16204 Jun 08 08:01 16204 Jun 26 22:59 16204 Jun 26 22:59 16204 Jul 09 07:07 16204 Jul 17 20:17	0°Y 3°Y23'16 0°℧ 17°℧18'07 24°℧51'09 22°℧22'24 18°℧53'09 17°℧51'23 16°℧07'32 16°℧09'46 10°℧43'48 10°℧08'07 13°℧22'54 0°Ⅲ 6°Ⅲ27'33 9°Ⅲ12'25 0°亞 1°ሜ36'07 1°ሜ01'44 8°郅45'54 26°쯟21'04 0°Ω 18°Ω25'30 0°™ 1°™01'13	0.64576 AU 0°29'39 0°28'52 17°52'02 -1°44'07 1°44'02 1.45472 AU
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 superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	16203 Mar 11 10:59 16203 Mar 20 23:36 16203 Apr 11 08:32 16203 Apr 15 00:40 16203 Apr 28 04:57 16203 May 04 15:12 16203 May 05 20:32 16203 May 10 16:05 16203 May 10 14:10 16203 May 12 16:43 16203 May 12 16:43 16203 May 15 14:39 16203 May 25 23:36 16203 May 26 18:32 16203 May 26 18:32 16203 Jun 07 11:46 16203 Jun 14 14:11 16203 Jun 16 01:22 16203 Jun 29 22:09 16203 Jun 29 16:24 16203 Jun 07 09:22 16203 Jul 05 03:17 16203 Jul 16 00:02 16203 Jul 24 11:10 16203 Jul 26 15:25	13°Y09'05 0°8 0°11 3°1151'03 11°118'22 8°1145'38 7°1141'38 4°1144'51 2°119'32 2°1125'14 30°88 26°841'51 25°851'34 29°812'11 0°11 16°1121'48 27°1139'36 0°9 21°952'37 21°930'10 24°909'58 0°0 16°053'29 0°10 3°1019'14	0.66354 AU 1°25'29 1°24'15 18°15'03 -2°08'03 2°08'29 1.46004 AU	desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node	16204 Feb 24 12:53 16204 Feb 26 07:40 16204 Mar 13 09:55 16204 Mar 27 13:49 16204 Apr 10 05:56 16204 Apr 20 18:35 16204 Apr 21 17:47 16204 Apr 23 07:59 16204 Apr 23 07:59 16204 Apr 29 17:32 16204 May 02 08:38 16204 May 02 08:38 16204 May 20 11:11 16204 May 24 08:43 16204 May 26 00:15 16204 Jun 07 16:35 16204 Jun 08 16:37 16204 Jun 08 08:01 16204 Jun 08 08:01 16204 Jun 26 22:59 16204 Jun 26 22:59 16204 Jul 09 07:07 16204 Jul 17 20:17 16204 Jul 18 16:52	0°Y 3°Y23'16 0°℧ 17°℧18'07 24°℧51'09 22°℧22'24 18°℧53'09 17°℧51'23 16°℧07'32 16°℧09'46 10°℧43'48 10°℧08'07 13°℧22'54 0°Ⅲ 6°Ⅲ27'33 9°Ⅲ12'25 0°亞 1°ሜ36'07 1°ሜ01'44 8°郅45'54 26°쯟21'04 0°Ω 18°Ω25'30 0°™ 1°™01'13	0.64576 AU 0°29'39 0°28'52 17°52'02 -1°44'07 1°44'02 1.45472 AU -0.6m
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 superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node	16203 Mar 11 10:59 16203 Mar 20 23:36 16203 Apr 11 08:32 16203 Apr 15 00:40 16203 Apr 28 04:57 16203 May 04 15:12 16203 May 05 20:32 16203 May 08 15:02 16203 May 10 16:05 16203 May 10 14:10 16203 May 12 16:43 16203 May 16 14:20 16203 May 16 14:39 16203 May 25 23:36 16203 May 26 18:32 16203 Jun 07 11:46 16203 Jun 14 14:11 16203 Jun 16 01:22 16203 Jun 29 22:09 16203 Jun 29 16:24 16203 Jun 29 16:24 16203 Jul 01 09:22 16203 Jul 05 03:17 16203 Jul 16 00:02 16203 Jul 24 11:10 16203 Jul 26 15:25 16203 Aug 01 20:04	13°Y09'05 0°8 0°11 3°1151'03 11°118'22 8°1145'38 7°1141'38 4°1144'51 2°119'32 2°1125'14 30°88 26°841'51 25°851'34 29°812'11 0°11 16°1121'48 27°1139'36 0°9 21°952'37 21°930'10 24°909'58 0°11 0°11 16°125'809'58 0°11 16°125'809'58 0°11 16°125'809'58 0°11 16°125'809'58 0°11 10°11 10°11 10°11 10°11 10°11 10°11 10°11 10°11 10°11 10°11 10°11	0.66354 AU 1°25'29 1°24'15 18°15'03 -2°08'03 2°08'29 1.46004 AU	desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el	16204 Feb 24 12:53 16204 Feb 26 07:40 16204 Mar 13 09:55 16204 Mar 27 13:49 16204 Apr 10 05:56 16204 Apr 20 18:35 16204 Apr 21 17:47 16204 Apr 23 07:59 16204 Apr 23 07:59 16204 Apr 29 17:32 16204 May 02 08:38 16204 May 02 08:38 16204 May 20 11:11 16204 May 24 08:43 16204 May 26 00:15 16204 Jun 07 16:35 16204 Jun 08 16:37 16204 Jun 08 08:01 16204 Jun 08 08:01 16204 Jun 26 22:59 16204 Jun 26 22:59 16204 Jul 13 05:08 16204 Jul 27 20:17 16204 Jul 18 16:52 16204 Jul 18 16:52 16204 Jul 21 06:11	0°Y 3°Y23'16 0°℧ 17°℧18'07 24°℧51'09 22°℧22'24 18°℧53'09 17°℧51'23 16°℧07'32 16°℧08'07 13°℧22'54 0°Ⅲ 6°Ⅲ27'33 9°Ⅲ12'25 0°亞 1°Ლ36'07 1°Ლ01'44 8°Ლ45'54 26°Ლ21'04 0°Ω 18°Ω25'30 0°™ 1°™01'13 3°™47'42	0.64576 AU 0°29'39 0°28'52 17°52'02 -1°44'07 1°44'02 1.45472 AU -0.6m

inferior conj	16204 Aug 06 23:27	0° Mp 36'27	3°00'30	asc. node	16205 Jul 05 13:42	18° Ω 58'26	
minimum elong	16204 Aug 07 00:36	0° m ₂ 32'33	2°59'57	retrograde	16205 Jul 12 17:57	$22^{\circ}\Omega 36'46$	
minimum clong	16204 Aug 07 00:36	0 11 y 32 33	2 3931	evening set	16205 Jul 17 02:03	$20^{\circ}\Omega 52'09$	
min. Earth dist.	16204 Aug 07 23:45	29° Ω 14'27	0.68029 AU	inferior conj	16205 Jul 22 07:33	14°Ω42'02	3°08'15
morning rise	16204 Aug 12 08:33	24°Ω10'46	0.00027110	minimum elong	16205 Jul 22 07:46	14° Ω 41'19	3°07'40
direct	16204 Aug 18 00:41	21°Ω42'24		min. Earth dist.	16205 Jul 22 18:20	14° Ω 04'37	0.68836 AU
desc. node	16204 Aug 20 07:04	22°Ω02'46		morning rise	16205 Jul 27 13:11	8° Ω 21'11	0.00050110
morning max el	16204 Aug 29 17:50	28° Ω 43'19	24°45'44	direct	16205 Aug 01 17:33	6°Ω06'19	
C	16204 Aug 30 23:21	0° m)		desc. node	16205 Aug 07 04:22	8° Ω 03'48	
	16204 Sep 22 04:19	0∘ ⊽		morning max el	16205 Aug 12 05:00	12° Ω 20′23	23°16'55
morning set	16204 Oct 04 10:11	20° ≙ 13'50			16205 Aug 26 09:19	0° m	
max. Earth dist.	16204 Oct 07 23:04	26° ≏ 33'42	1.37288 AU		16205 Sep 15 00:07	0∘ ⊽	
	16204 Oct 09 19:54	0°M₊		morning set	16205 Sep 15 18:16	1° ≏ 15'24	
				max. Earth dist.	16205 Sep 19 21:47	8° ≙ 17'17	1.39704 AU
superior conj	16204 Oct 14 21:19	9°M38'31	0°01'14				
minimum elong	16204 Oct 14 21:13	9°M38'01	0°01'36	superior conj	16205 Sep 27 16:53	22° ≏ 13'10	-0°34'07
behind sun begin	16204 Oct 14 14:37	9°M05′52		minimum elong	16205 Sep 27 19:27	22° ≏ 25′01	0°33'28
behind sun end	16204 Oct 15 03:49	10°M10'15		asc. node	16205 Oct 01 14:47	29° ჲ 33′20	
asc. node	16204 Oct 14 18:04	9°M22'42			16205 Oct 01 20:24	0° M	
evening rise	16204 Oct 23 05:47	26° ™ 19'44		evening rise	16205 Oct 07 02:47	10° ™ 07′20	
	16204 Oct 25 01:49	0° ∡ ¹			16205 Oct 18 06:05	0° ∡	
evening max el	16204 Nov 09 04:29	24° ∡ 13'52	19°27'50	evening max el	16205 Oct 23 03:52	6° ∡ 10'53	18°38'09
desc. node	16204 Nov 16 04:25	28° √ 41'38		retrograde	16205 Oct 31 07:41	10° ∡ 18'39	
retrograde	16204 Nov 18 18:59	29°×702'22		evening set	16205 Nov 02 06:03	10° ∡ 05'33	
evening set	16204 Nov 20 17:29	28° 🗷 51'30		desc. node	16205 Nov 03 01:35	9° ₹ 52'33	
inferior conj	16204 Nov 29 08:10	24° 🖈 45'26		inferior conj	16205 Nov 10 06:24	5° ⋌ ³39'05	
minimum elong	16204 Nov 28 22:41	25° 🗷 00'45	3°58'20	minimum elong	16205 Nov 10 00:48	5° × ⁷ 49'36	
min. Earth dist.	16204 Dec 01 19:22	23° х 09'59	0.55545 AU	min. Earth dist.	16205 Nov 13 09:33	3° ∡ 18'37	0.57274 AU
morning rise	16204 Dec 07 01:50	20° 🗷 21'50		morning rise	16205 Nov 17 16:21	0° ∡ ³39'22	
direct	16204 Dec 12 11:33	19° 🖈 15'57	25015144	J:4	16205 Nov 19 04:26	30°RM 29°M06'58	
morning max el	16204 Dec 26 10:39	26°♂18'18 0°る	25°15'44	direct	16205 Nov 23 19:10	29°11⊾06′38 0° √ 1	
asc. node	16204 Dec 29 23:07 16205 Jan 10 17:44	0 る 16° る 52'35		morning max el	16205 Nov 28 11:27 16205 Dec 08 00:20	6° ₹ ¹32'24	26°45'33
asc. node	16205 Jan 17 18:13	10 3 52 33		morning max er	16205 Dec 25 08:43	0 メ ・32 24 0° る	20 43 33
morning set	16205 Jan 22 02:32	0 ∞ 9°≈05'28		asc. node	16205 Dec 28 14:53	5° る 46'16	
morning set	10203 Jan 22 02.32) ~03 Z0		morning set	16206 Jan 06 12:36	23°₹35'53	
superior conj	16205 Jan 28 20:10	23° ≈ 55'05	1°35'36	morning sec	16206 Jan 09 10:58	0°≈	
minimum elong	16205 Jan 28 21:08	24°≈00'24	1°36'02		10200 3411 07 10.50	0 / • .	
max. Earth dist.	16205 Jan 30 13:18	27° ≈ 41'31	1.31824 AU	superior conj	16206 Jan 13 07:06	8° ≈ 33'55	1°38'08
	16205 Jan 31 14:41	0°) €		minimum elong	16206 Jan 13 07:00	8° ≈ 33'24	1°38'45
evening rise	16205 Feb 05 02:14	9° ∺ 30'40		max. Earth dist.	16206 Jan 13 19:48	9° ≈ 44'56	1.31143 AU
desc. node	16205 Feb 12 04:22	23°) €22'03		evening rise	16206 Jan 20 04:34	23° ≈ 41'41	
	16205 Feb 15 21:38	0° Y		C	16206 Jan 23 05:32	0° ∀	
	16205 Mar 09 18:29	9° 8		desc. node	16206 Jan 30 01:06	12°) 59′04	
evening max el	16205 Mar 10 00:53	0° 8 15'26	27°36'18		16206 Feb 09 17:54	0° Y	
retrograde	16205 Mar 23 23:35	7° 8 44'48		evening max el	16206 Feb 20 07:23	12° Y '30'49	27°15'27
evening set	16205 Mar 30 18:59	5° 8 27'41		retrograde	16206 Mar 06 08:11	19° Y 50'26	
min. Earth dist.	16205 Apr 03 13:12	2° 8 24'36	0.62495 AU	evening set	16206 Mar 13 00:37	17° Y ′52′07	
	16205 Apr 06 01:21	30° ŖƳ		min. Earth dist.	16206 Mar 16 21:41	15° Y ′07'27	0.60251 AU
inferior conj	16205 Apr 06 12:44	29° Ƴ 32'21		inferior conj	16206 Mar 20 02:47	12° Y ′24'53	
minimum elong	16205 Apr 06 14:05	29° Y 29'05	0°39'58	minimum elong	16206 Mar 20 07:23	12° Y 15′06	2°01'26
asc. node	16205 Apr 08 15:05	27° Y 34'48		asc. node	16206 Mar 26 12:24	8° ℃ 01'33	
morning rise	16205 Apr 13 12:08	24° Y °24'52		morning rise	16206 Mar 27 17:38	7° Y 36′28	
direct	16205 Apr 15 19:19	24° Y ′00′23		direct	16206 Mar 29 18:55	7° Y 19'36	
morning max el	16205 Apr 22 09:52	27° Y 21′02	17°46'31	morning max el	16206 Apr 06 01:06	10° Y 57'09	17°59'27
. ,	16205 Apr 24 19:09	0°8		. ,	16206 Apr 18 15:54	0°8	
morning set	16205 May 08 10:26	21° 8 53'03		morning set	16206 Apr 21 14:54	5° 8 24'24	
desc. node	16205 May 11 05:34	26° 8 46'22 0° Ⅱ		desc. node	16206 Apr 28 02:22	17° 8 13'51	
	16205 May 13 02:10	υц		cuparior con-	16206 May 01 22:20	24° 8 03'05	0031117
superior conj	16205 May 20 07:48	12° Ⅱ 17'30	-1000117	superior conj minimum elong	16206 May 01 22:28 16206 May 01 19:47	23° 8 51'19	
minimum elong	16205 May 20 07:48 16205 May 20 01:24			minimum ciong	16206 May 01 19:47 16206 May 05 08:58	0°Ⅱ	0 31 44
max. Earth dist.	16205 May 26 01.24 16205 May 26 22:14	23° I 04'37	1.44256 AU	max. Earth dist.	16206 May 09 11:27	0 <u>П</u> 6° ∏ 54'04	1.42479 AU
max. Darui dist.	16205 May 31 07:00	23 H 0437 0°ഇ	1.77230 AU	evening rise	16206 May 15 02:34	16° Ⅱ 02'01	1.747//AU
evening rise	16205 Jun 04 01:20	5° 9 51'15		3.0	16206 May 24 03:46	0°95	
· · · · · · · · · · · · · · · · · · ·	16205 Jun 20 07:01	0° Ω			16206 Jun 15 10:21	0°€0	
evening max el	16205 Jul 04 05:34	17° Ω 42'10	21°01'55	evening max el	16206 Jun 16 23:40	1° Ω 36'49	22°18'40
<i>3</i>				3			

1-	16206 Ivan 22 10-27	50 0 50 5 4			1/207 A 27 19:11	0° I I	
asc. node retrograde	16206 Jun 22 10:37 16206 Jun 26 15:35	5° Ω 59'54 7° Ω 15'51			16207 Apr 27 18:11 16207 May 17 18:09	0°©	
evening set	16206 Jul 01 11:10	5° Ω 14'34		evening max el	16207 May 17 18:09	15° 9 31'23	23°40'05
evening set	16206 Jul 05 22:43	30°Rூ		asc. node	16207 Jun 09 07:36	21°947'54	23 40 03
inferior conj	16206 Jul 06 17:24	28°955'03	3°05'02	retrograde	16207 Jun 10 10:38	21°953'20	
minimum elong	16206 Jul 06 16:40	28°957'36	3°04'19	evening set	16207 Jun 15 17:53	19° © 37'46	
min. Earth dist.	16206 Jul 06 14:58	29° © 03'34	0.69157 AU	min. Earth dist.	16207 Jun 20 11:32	14°504'11	0.68981 AU
morning rise	16206 Jul 11 22:01	22°5941'16		inferior conj	16207 Jun 21 03:02	13°511'00	2°51'23
direct	16206 Jul 16 14:08	20°543'55		minimum elong	16207 Jun 21 01:31	13°9516'15	2°50'27
desc. node	16206 Jul 25 01:37	25°523'43		morning rise	16207 Jun 26 09:08	7° © 05'42	
morning max el	16206 Jul 25 18:55	26°906'01	21°49'46	direct	16207 Jun 30 13:12	5° © 27'52	
	16206 Jul 29 08:29	$0^{\circ}\Omega$		morning max el	16207 Jul 08 14:24	10° © 01'55	20°31'09
	16206 Aug 19 20:39	0° m		desc. node	16207 Jul 11 22:49	13°5941'59	
morning set	16206 Aug 27 02:38	11° m 16'54			16207 Jul 23 23:39	$0^{\circ}\Omega$	
max. Earth dist.	16206 Sep 02 01:12	20° m 54'43	1.42016 AU	morning set	16207 Aug 06 14:17	20° Ω 27′20	
	16206 Sep 07 10:39	0∘ ⊽			16207 Aug 12 16:53	0° m)	
				max. Earth dist.	16207 Aug 15 11:11	4° m 23'54	1.43945 AU
superior conj	16206 Sep 09 17:48	3° ≏ 58'42	-1°11'01				
minimum elong	16206 Sep 09 23:37	4° £ 24'05	1°10'12	superior conj	16207 Aug 21 20:07	14° Mp 46'32	-1°44'41
asc. node	16206 Sep 18 11:29	19° ≏ 39'13		minimum elong	16207 Aug 22 04:00	15° m) 19'11	1°44'09
evening rise	16206 Sep 20 13:01	23° ≏ 26'33			16207 Aug 30 19:46	0∘ ⊽	
	16206 Sep 24 03:05	0°M		evening rise	16207 Sep 03 07:49	6° ≏ 05'26	
evening max el	16206 Oct 06 12:28	18°M49'23	18°09'47	asc. node	16207 Sep 05 08:11	9° £ 36'23	
retrograde	16206 Oct 13 15:39	22°M28'30			16207 Sep 18 06:31	0°M	
evening set	16206 Oct 15 19:28	22°M08'55		evening max el	16207 Sep 20 02:05	1°M59'23	18°01'12
desc. node	16206 Oct 20 22:48	19°M09'51	0041114	retrograde	16207 Sep 26 15:12	5°M23'11	
inferior conj	16206 Oct 23 02:20	17°M20'49		evening set	16207 Sep 29 02:41	4°M53'23	
minimum elong	16206 Oct 23 00:53	17°M24'01	0°40'10		16207 Oct 05 11:45	30°R Ω	0020104
min. Earth dist.	16206 Oct 26 08:02	14°M31'33	0.59433 AU	inferior conj	16207 Oct 05 17:21	29° £ 45′56	0°39'04
morning rise direct	16206 Oct 30 02:57 16206 Nov 05 15:49	11°M46'20 9°M48'17		minimum elong desc. node	16207 Oct 05 18:30 16207 Oct 07 20:04	29° £ 43'03 27° £ 37'59	0°38'57
morning max el	16206 Nov 19 22:24	17°M31'54	27°42'04	min. Earth dist.	16207 Oct 07 20:04 16207 Oct 08 16:36	21° ⊆ 37'39 26° ⊆ 47'45	0.61722 AU
morning max er	16206 Nov 30 07:55	0° √	27 42 04	morning rise	16207 Oct 08 10:30 16207 Oct 12 07:34	20 = 4743 23° £ 44'54	0.01722 AU
asc. node	16206 Dec 15 11:57	25° ∡ 708'44		direct	16207 Oct 12 07:54 16207 Oct 18 23:59	21° Ω 25'41	
asc. node	16206 Dec 17 23:25	23 × 00 44		morning max el	16207 Nov 02 03:47	29° £ 21'46	27°59'13
morning set	16206 Dec 21 19:06	7° る 52'32		morning max cr	16207 Nov 02 03:47	0°M	27 37 13
max. Earth dist.	16206 Dec 28 03:31	21° ප් 46'56	1.31001 AU		16207 Nov 24 07:16	0° ∡ 7	
				asc. node	16207 Dec 02 08:57	14° ₹ 52'04	
superior conj	16206 Dec 28 18:28	23° ප 10'36	1°34'39	morning set	16207 Dec 05 20:01	21° х 50'51	
minimum elong	16206 Dec 28 17:21	23° る 04'25	1°35'16	S	16207 Dec 09 16:27	0°ರ	
· ·	16206 Dec 31 19:40	0° ≈		max. Earth dist.	16207 Dec 11 08:34	3° る 38'28	1.31416 AU
evening rise	16207 Jan 04 11:37	8° ≈ 02'45					
_	16207 Jan 15 16:33	0°)		superior conj	16207 Dec 13 04:26	7° る 40'20	1°25'06
desc. node	16207 Jan 16 21:52	2° 升 05'30		minimum elong	16207 Dec 13 02:31	7° る 29'43	1°25'37
evening max el	16207 Feb 02 06:27	23°) 53′40	26°19'23	evening rise	16207 Dec 19 21:28	22° る 29'30	
	16207 Feb 11 04:01	0° Υ			16207 Dec 23 10:41	0° ≈	
retrograde	16207 Feb 16 06:00	1° Y 01'10		desc. node	16208 Jan 03 18:42	20° ≈ 30′16	
	16207 Feb 21 06:45	30° ₹			16208 Jan 10 17:50	0° ∀	
evening set	16207 Feb 22 12:16	29° ∺ 27'16		evening max el	16208 Jan 14 20:59	4° ∺ 25'09	24°53'24
min. Earth dist.	16207 Feb 26 19:44	26°) 49'44	0.58044 AU	retrograde	16208 Jan 28 15:37	11°) 18'41	
inferior conj	16207 Mar 01 22:17	24°) (33′44		evening set	16208 Feb 03 02:33	10°) 12′23	
minimum elong	16207 Mar 02 06:24	24°) 18′52	3°31'05	min. Earth dist.	16208 Feb 08 09:07	7° ∺ 26′02	0.56138 AU
morning rise	16207 Mar 10 03:51	20° ₩ 06'57		inferior conj	16208 Feb 10 20:41	5°) € 51′24	
direct	16207 Mar 12 02:55	19° ¥ 54'05		minimum elong	16208 Feb 11 05:59	5°) ₹36'37	4°56'26
asc. node	16207 Mar 13 09:44	19°) 59'49	1002202	morning rise	16208 Feb 19 11:52	1°) 45'42	
morning max el	16207 Mar 20 10:07	23° ¥ 59'36 0° Ƴ	18°32'23	direct	16208 Feb 21 15:23	1° ¥ 32'55	
morning set	16207 Mar 25 07:13 16207 Apr 05 08:16	0° γ ' 19° Υ 29'31		asc. node morning max el	16208 Feb 28 07:03 16208 Mar 02 08:44	3° ¥ 45'09 6° ¥ 16'50	19°27'17
morning set	-	0° 8		morning max ei	16208 Mar 17 10:51	0°Υ	19 2/1/
	16207 Apr 10 19:41	υ Ο		morning set	16208 Mar 17 10:31 16208 Mar 19 10:23	0° γ 3° Υ 56'16	
superior conj	16207 Apr 14 09:48	6° 8 44'03	0°04'40	morning set	10200 Wiai 19 10.23	J 1 JU 10	
minimum elong	16207 Apr 14 10:07	6° 8 45'29	0°04'15	superior conj	16208 Mar 27 13:28	20° Ƴ 08'27	0°35'40
behind sun begin	16207 Apr 14 10:07	6° 8 13'38	2 0 . 10	minimum elong	16208 Mar 27 15:27	20°Υ18'09	0°35'08
behind sun end	16207 Apr 14 16:59	7° 8 17'14		desc. node	16208 Mar 31 19:50	28° Υ 17'36	
desc. node	16207 Apr 14 23:06	7° 8 45'27			16208 Apr 01 17:50	0°8	
max. Earth dist.	16207 Apr 21 20:11	20° 8 02'37	1.40322 AU	max. Earth dist.	16208 Apr 03 02:12	2° 8 28'46	1.38023 AU
evening rise	16207 Apr 26 00:16	27° 8 06'59	-	evening rise	16208 Apr 06 18:52	9° 8 05'16	-
		-		Ü			

	16208 Apr 19 13:44	0° I I			16209 Mar 24 21:10	0° ႘	
evening max el	16208 May 12 03:38		24°59'37		16209 Apr 13 09:26	0°II	
evening max er	16208 May 12 17:37	0°95	24 3937	evening max el	16209 Apr 24 17:15	13° Ⅱ 17'44	26°09'59
retrograde	16208 May 24 01:59	6°9522'58		retrograde	16209 May 07 12:36	20° I 37'46	20 09 39
asc. node	16208 May 26 04:39	6°904'22		asc. node	16209 May 13 01:46	18° Ⅱ 36'54	
evening set	16208 May 29 20:34	3°956'49		evening set	16209 May 13 17:30	18° Ⅱ 05'59	
evening set	16208 Jun 02 11:31	30°RII		min. Earth dist.	16209 May 17 20:28	13° II 45'13	0.67191 AU
min. Earth dist.	16208 Jun 03 06:03	29° Ⅱ 00'16	0.68319 AU	inferior conj	16209 May 17 20:20 16209 May 19 14:02	11° II 36'21	1°51'35
inferior conj	16208 Jun 04 10:35	27° I I26'11	2°27'09	minimum elong	16209 May 19 11:52	11° II 43'03	1°50'17
minimum elong	16208 Jun 04 08:32	27° I 33'00	2°25'58	morning rise	16209 May 25 07:03	5° Ⅱ 51'24	1 30 17
morning rise	16208 Jun 09 20:47	21° II 30'24	2 23 30	direct	16209 May 28 13:00	4° П 51'32	
direct	16208 Jun 13 13:21	20° I 12'13		morning max el	16209 Jun 04 02:32	8° П 21'33	18°35'58
morning max el	16208 Jun 20 17:01	24° I 108'06	19°25'40	desc. node	16209 Jun 14 17:05	22° I 16'50	10 33 30
morning max or	16208 Jun 25 18:51	0°95	1) 23 10	desc. node	16209 Jun 19 17:50	0°95	
desc. node	16208 Jun 27 19:58	2°5643'24		morning set	16209 Jun 25 11:17	8°956'49	
greatest brilliancy	16208 Jul 03 09:05	10°937'51	-0.7m	morning set	16209 Jul 08 22:48	0°Ω	
morning set	16208 Jul 15 18:27	29°522'12	0.7111		1020) 341 00 22.10	o 00	
morning set	16208 Jul 16 04:17	0° Ω		superior conj	16209 Jul 11 10:56	3°Ω54'21	-2°13'53
max. Earth dist.	16208 Jul 28 02:34		1.45302 AU	minimum elong	16209 Jul 11 09:20	3°Ω48'08	
max. Earth dist.	10200 Jul 20 02.54	10 005107	1.43302710	max. Earth dist.	16209 Jul 10 21:41	3°Ω02'42	1.45962 AU
superior conj	16208 Jul 31 23:22	24° Ω 37'43	-2°08'02	evening rise	16209 Jul 27 03:00	28° Ω 31'32	1.43702 110
minimum elong	16208 Aug 01 05:00	25°Ω00'06		evening rise	16209 Jul 28 01:18	0°m)	
minimum clong	16208 Aug 04 08:04	0° m)	2 00 14	greatest brilliancy	16209 Aug 03 13:19	10° Mg 17'05	-0.9m
evening rise	16208 Aug 15 05:48	17° m) 49'48		asc. node	16209 Aug 09 01:34	18° m) 44'28	-0.9111
asc. node	16208 Aug 22 04:52	29° Mp 19'49		evening max el	16209 Aug 17 06:03	29° To 16'49	18°38'37
asc. nouc	•	0° ⊽		evening max er	Č	0° ⊽	16 3637
avanina may al	16208 Aug 22 14:45 16208 Sep 02 16:58	0 <u>≈</u> 15° ≏ 31'00	18°11'09	ratra arada	16209 Aug 18 00:21 16209 Aug 23 19:09	0 <u>≈</u> 2° Ω 48'54	
evening max el			18-11-09	retrograde			
retrograde	16208 Sep 09 01:40	18° ♀ 52'29		evening set	16209 Aug 27 00:37	1° Ω 49'37	
evening set	16208 Sep 11 21:48	18° ♀ 09'12	1020150		16209 Aug 29 07:34	30°RM)	2022150
inferior conj	16208 Sep 17 23:20	12° ₽ 45'04	1°39'58	inferior conj	16209 Sep 01 16:29	26° Mp 10'44	2°22'59
minimum elong	16208 Sep 18 01:33	12° £ 38'49	1°39'22	minimum elong	16209 Sep 01 18:43	26° Mp 03'51	2°22'19
min. Earth dist.	16208 Sep 20 11:12	9° £ 57'10	0.63912 AU	min. Earth dist.	16209 Sep 03 14:47	23° Mp 48'34	0.65830 AU
desc. node	16208 Sep 23 17:25	6° ₽ 47'32		morning rise	16209 Sep 07 11:41	19° m 45'31	
morning rise	16208 Sep 24 03:25	6° £ 27'35		desc. node	16209 Sep 10 14:47	17° Mp 47'15	
direct	16208 Sep 30 17:53	3° £ 54'44	27220140	direct	16209 Sep 13 19:47	17° Mp 08'04	2 < 0 4 512 0
morning max el	16208 Oct 14 13:29	11° ≏ 53'25	27°38'49	morning max el	16209 Sep 27 00:47	24° m 55'34	26°47'30
	16208 Oct 29 00:12	0° M ₊			16209 Oct 01 15:38	0∘ ⊽	
	16208 Nov 15 18:38	0° ∡ ¹			16209 Oct 22 11:11	0°M	
asc. node	16208 Nov 18 05:53	4° √ 49'19		morning set	16209 Nov 01 18:48	18°M26'20	
morning set	16208 Nov 18 12:54	5° ∡ ¹24'14		asc. node	16209 Nov 05 02:46	24°M55'42	
max. Earth dist.	16208 Nov 23 06:57	15° √ 10'14	1.32398 AU	max. Earth dist.	16209 Nov 05 20:04	26°M21′59	1.33942 AU
	1600031 06 10 50	210 75502	100010		16209 Nov 07 15:09	0° ∡ ¹	
superior conj	16208 Nov 26 10:58	21° х 57'03	1°09'26		1600037 10 11 16	50 355100	00.4512.2
minimum elong	16208 Nov 26 08:37	21° х 44′20	1°09'46	superior conj	16209 Nov 10 11:46	5° ₹ '55'09	0°47'33
	16208 Nov 30 03:32	0° る		minimum elong	16209 Nov 10 09:36	5° ⋌ ¹43'44	0°47'48
evening rise	16208 Dec 03 08:16	6° る 56'43		evening rise	16209 Nov 17 18:11	21° ∡ 120′27	
	16208 Dec 15 06:42	0° ≈			16209 Nov 21 22:53	0°る	
desc. node	16208 Dec 20 15:36	7°≈57'39		desc. node	16209 Dec 07 12:35	24°る08'06	
evening max el	16208 Dec 26 06:31	14° ≈ 24'02	23°11'15	evening max el	16209 Dec 07 19:59	24° る 26'31	21°30'56
retrograde	16209 Jan 08 11:55	20°≈56'32			16209 Dec 16 16:47	0° ≈	
evening set	16209 Jan 12 18:38	20°≈16'51		retrograde	16209 Dec 19 22:16	0° ≈ 25'12	
min. Earth dist.	16209 Jan 19 16:57	17°≈02'43	0.54833 AU	evening set	16209 Dec 22 22:45	0°≈04'26	
inferior conj	16209 Jan 20 23:23	16°≈18'57			16209 Dec 23 06:17	30°Ŗる	
minimum elong	16209 Jan 21 03:52	16° ≈ 12'31	5°53'16	inferior conj	16209 Dec 31 14:48	26° る 14'29	
morning rise	16209 Jan 29 14:25	12° ≈ 27'58		minimum elong	16209 Dec 31 09:58	26° පි 21'15	
direct	16209 Feb 01 09:13	12° ≈ 09'35		min. Earth dist.	16209 Dec 31 22:15	26° පි 04'01	0.54380 AU
morning max el	16209 Feb 12 17:10	17° ≈ 38'15	20°45'29	morning rise	16210 Jan 08 21:39	22° る 25'32	
asc. node	16209 Feb 14 04:22	19° ≈ 08'29		direct	16210 Jan 12 17:26	21° る 53'44	
	16209 Feb 22 00:27	0° ∀		morning max el	16210 Jan 25 10:51	28° る 04'41	22°24'36
morning set	16209 Mar 03 18:07	18° ¥ 35′07			16210 Jan 27 08:05	0° ≈	
	16209 Mar 09 05:47	0° Y		asc. node	16210 Feb 01 01:41	5° ≈ 52'27	
					16210 Feb 14 15:08	0° ∀	
superior conj	16209 Mar 11 05:15	4° Υ 04'06	1°00'37	morning set	16210 Feb 16 04:59	3° ¥ 18′53	
minimum elong	16209 Mar 11 07:47	4° Υ 17'02	1°00'14				
max. Earth dist.	16209 Mar 16 10:05	14° Y 26'06	1.35824 AU	superior conj	16210 Feb 23 05:39	18°) €21'14	1°19'10
desc. node	16209 Mar 18 16:33	18° Ƴ 46'19		minimum elong	16210 Feb 23 07:56	18°) 33′18	1°19'06
evening rise	16209 Mar 20 07:33	21° Y 48'15		max. Earth dist.	16210 Feb 27 00:28	26° ¥ 15'35	1.33928 AU

	16210 Feb 28 20:42	0°Υ		max. Earth dist.	16211 Feb 09 22:37	8° ¥ 10′26	1.32452 AU
evening rise	16210 Mar 03 10:42	5° Υ 05'53		evening rise	16211 Feb 15 01:02	18° ¥ 49'55	1.92 102 110
desc. node	16210 Mar 05 13:13	9° Ƴ 07'20		desc. node	16211 Feb 20 09:54	29°) 16′14	
	16210 Mar 17 15:18	0°8			16211 Feb 20 19:19	$0^{\circ}\Upsilon$	
evening max el	16210 Apr 07 07:10	26° 8 58'07	27°03'33		16211 Mar 11 20:08	0°8	
C	16210 Apr 10 16:56	0° I I		evening max el	16211 Mar 20 19:52	10° 8 15'13	27°32'51
retrograde	16210 Apr 20 17:16	4° Ⅱ 28'41		retrograde	16211 Apr 03 15:01	17° 8 46'43	
evening set	16210 Apr 27 06:38	1° Ⅱ 57′08		evening set	16211 Apr 10 09:43	15° 8 22'04	
	16210 Apr 29 11:07	30° ₹ 8		min. Earth dist.	16211 Apr 14 04:29	12° 8 04'48	0.63730 AU
asc. node	16210 Apr 29 22:59	29° 8 29'50		inferior conj	16211 Apr 16 22:32	9° 8 14'47	0°01'49
min. Earth dist.	16210 May 01 04:36	28° 8 10'01	0.65641 AU	minimum elong	16211 Apr 16 22:29	9° 8 14'54	0°01'23
inferior conj	16210 May 03 10:56	25° 8 34'54	1°03'31	transit middle	16211 Apr 16 22:29	9° 8 14'54	0°01'23
minimum elong	16210 May 03 09:22	25° 8 39'24	1°02'25	transit begin	16211 Apr 16 19:21	9° 8 23'01	
morning rise	16210 May 09 13:38	20° 8 02'34		transit end	16211 Apr 17 01:37	9° 8 06'49	
direct	16210 May 12 09:55	19° 8 18'47		asc. node	16211 Apr 16 20:14	9° 8 20'45	
morning max el	16210 May 18 17:16	22° 8 35'31	18°03'05	morning rise	16211 Apr 23 13:41	3° 8 57'32	
	16210 May 24 17:05	Π $^{\circ}0$		direct	16211 Apr 26 01:22	3° 8 26'53	
desc. node	16210 Jun 01 14:06	12° Ⅱ 13′00		morning max el	16211 May 02 10:42	6° 8 42'25	17°47'30
morning set	16210 Jun 06 05:41	19° Ⅱ 45'41			16211 May 18 00:50	Π °0	
	16210 Jun 12 13:42	0		morning set	16211 May 19 02:43	1° Ⅱ 50'05	
				desc. node	16211 May 19 11:01	2° Ⅱ 25'25	
superior conj	16210 Jun 20 22:03	13° © 15'33				_	
minimum elong	16210 Jun 20 14:18	12°9545'06		superior conj	16211 Jun 01 00:29	23° I [21'53	
max. Earth dist.	16210 Jun 23 18:26		1.45872 AU	minimum elong	16211 May 31 16:24	22° ∏ 49′05	1°29'58
	16210 Jul 01 16:03	$0^{\circ}\Omega$			16211 Jun 05 03:33	0°©	
evening rise	16210 Jul 07 01:11	8° Ω 18'02		max. Earth dist.	16211 Jun 06 13:54	2°516'22	1.45043 AU
greatest brilliancy	16210 Jul 19 17:24	27° Ω 34'36	-0.7m	evening rise	16211 Jun 16 11:56	17°9541'57	
	16210 Jul 21 09:00	0° Т р			16211 Jun 24 15:17	0° Ω	
asc. node	16210 Jul 26 22:20	7° Mp 42'47	10000141	asc. node	16211 Jul 13 19:08	26° Ω 05'43	20021152
evening max el	16210 Jul 31 14:47	13° Mp 09'15	19°22'41	evening max el	16211 Jul 14 17:37	27° Ω 03'34	20°21'52
retrograde	16210 Aug 07 16:34	17° Mp 04'44			16211 Jul 18 05:27	0°M)	
evening set	16210 Aug 11 07:57	15° Mp 47'54	2050120	retrograde	16211 Jul 22 15:37	1° ™ 34'13 29° Ω 59'26	
inferior conj	16210 Aug 16 17:28	9° Mp 55'44 9° Mp 50'21	2°50'38 2°50'03	evening set	16211 Jul 26 17:28 16211 Jul 26 17:11	29 δ (39 20 30°R Ω	
minimum elong min. Earth dist.	16210 Aug 16 19:06 16210 Aug 18 01:41	9 11\(\bar{1}\) 30 21 8° 11\(\bar{1}\) 10'02	0.67361 AU	inferior conj	16211 Jul 31 23:38	30 κδι 23°Ω55'17	3°05'09
morning rise	16210 Aug 18 01:41 16210 Aug 22 05:39	3° T() 29'05	0.07301 AU	minimum elong	16211 Aug 01 00:24	23° Ω 52'40	3°04'36
direct	16210 Aug 28 04:12	0° m 55'33		min. Earth dist.	16211 Aug 01 00:24	23° Ω 52'14	0.68439 AU
desc. node	16210 Aug 28 12:09	0° m 55'59		morning rise	16211 Aug 06 07:00	17° Ω 31'28	0.00437710
morning max el	16210 Sep 09 12:02		25°34'07	direct	16211 Aug 11 18:10	15°Ω08'31	
morning max or	16210 Sep 26 13:28	0∘ ರ	23 3107	desc. node	16211 Aug 15 09:30	16° Ω 01'02	
	16210 Oct 14 23:23	0°M		morning max el	16211 Aug 22 23:03	21°Ω50'13	24°08'15
morning set	16210 Oct 15 10:08	0°M48'35		5 5	16211 Aug 30 01:44	0° m/	
max. Earth dist.	16210 Oct 19 00:04	7°M26'05	1.35969 AU		16211 Sep 19 19:41	0∘ <u>⊽</u>	
asc. node	16210 Oct 22 23:35	15°M06'34		morning set	16211 Sep 27 06:47	12° ≏ 22'18	
				max. Earth dist.	16211 Sep 30 23:10	18° ≏ 48'33	1.38313 AU
superior conj	16210 Oct 25 04:02	19°M27'17	0°19'42		16211 Oct 07 01:40	0°M	
minimum elong	16210 Oct 25 02:52	19°M21'27	0°19'59				
	16210 Oct 30 08:02	0° ∡ ¹		superior conj	16211 Oct 08 08:17	2°M25'14	-0°13'23
evening rise	16210 Nov 02 01:07	5° ∡ ³35'15		minimum elong	16211 Oct 08 09:11	2°M29'34	0°12'54
	16210 Nov 15 14:59	ව°0		behind sun begin	16211 Oct 08 04:58	2°M09'25	
evening max el	16210 Nov 19 21:37	5° ප 05'08	20°06'33	behind sun end	16211 Oct 08 13:25	2°M49'44	
desc. node	16210 Nov 24 09:38	8° る 37'40		asc. node	16211 Oct 09 20:19	5°M18'12	
retrograde	16210 Nov 30 10:24	10°る20'04		evening rise	16211 Oct 17 02:38	19°MJ35'04	
evening set	16210 Dec 02 14:18	10° る 07'49			16211 Oct 22 11:54	0° ∡ ¹	
inferior conj	16210 Dec 11 09:04	6° る 10'26		evening max el	16211 Nov 02 13:38	16° ≯ 33′20	19°03'57
minimum elong	16210 Dec 10 23:08		4°51'49	desc. node	16211 Nov 11 06:46	21° х 03′40	
min. Earth dist.	16210 Dec 13 04:17	5° る 05'36	0.54864 AU	retrograde	16211 Nov 11 12:31	21° х 03'51	
morning rise	16210 Dec 19 07:07	2°る04'52		evening set	16211 Nov 13 09:48	20° 🖈 52'39	2010150
direct	16210 Dec 24 04:21	1°る13'05	24014140	inferior conj	16211 Nov 21 19:07	16° ₹38'02	
morning max el	16211 Jan 06 19:51	7°る58'10	24°14'40	minimum elong	16211 Nov 21 11:02	16° ₹ 51'56	
asc. node	16211 Jan 18 22:57	23° る 38'49		min. Earth dist.	16211 Nov 24 14:45	14° х 42'03	0.56198 AU
mannint	16211 Jan 22 16:04	0°≈ 18°2202105		morning rise	16211 Nov 29 09:37	11° х 59'26	
morning set	16211 Jan 31 17:00	18°≈02'05		direct	16211 Dec 05 03:08	10° × 42'48	25057120
	16211 Feb 06 04:29	0° ∀		morning max el	16211 Dec 19 05:58 16211 Dec 29 06:06	17°♂55'34 0°♂	25 5/30
superior conj	16211 Feb 07 11:57	2° ¥ 52'19	1031122	asc. node	16211 Dec 29 06:06 16212 Jan 05 20:09	0°5 12° る 11'23	
minimum elong	16211 Feb 07 11:37 16211 Feb 07 13:28	3° H 00'39		asc. noue	16212 Jan 03 20:09 16212 Jan 14 22:39	0°≈	
uii ciong	10211100 0/ 13.20	J 10039	1 3137		10212 Juli 14 22.39	· ~	

morning set	16212 Jan 16 04:16	2°≈38'28			16212 Dec 01 11:47	0° ∡ 7	
					16212 Dec 22 00:27	0°ਰ	
superior conj	16212 Jan 22 21:44	17° ≈ 29'51	1°37'25	asc. node	16212 Dec 22 17:17	1° る 18'20	
minimum elong	16212 Jan 22 22:16	17° ≈ 32'46	1°37'57	morning set	16212 Dec 30 13:02	17° る 03'29	
max. Earth dist.	16212 Jan 24 02:47	20° ≈ 11'10	1.31463 AU		16213 Jan 05 10:10	0° ≈	
	16212 Jan 28 14:58	0°) €					
evening rise	16212 Jan 29 23:38	2°) 52′17		superior conj	16213 Jan 06 09:04	2° ≈ 08'21	1°37'24
desc. node	16212 Feb 07 06:34	19°) €06'39		minimum elong	16213 Jan 06 08:32	2° ≈ 05'22	1°38'02
	16212 Feb 13 14:56	0° Υ		max. Earth dist.	16213 Jan 06 10:04	2° ≈ 13'52	1.31008 AU
evening max el	16212 Mar 02 05:06	22° Y ′55'27	27°31'38	evening rise	16213 Jan 13 04:11	17° ≈ 07'45	
	16212 Mar 13 08:47	9° 8			16213 Jan 19 11:53	0°)	
retrograde	16212 Mar 16 04:53	0° 8 21'25		desc. node	16213 Jan 24 03:17	8°) 31′29	
	16212 Mar 18 23:13	30° ₹Ƴ			16213 Feb 07 19:41	0° Ƴ	
evening set	16212 Mar 23 00:02	28° Y 11′05		evening max el	16213 Feb 12 08:30		26°55'46
min. Earth dist.	16212 Mar 26 18:37	25° Y 17'21	0.61557 AU	retrograde	16213 Feb 26 09:30	12° Y ′03'54	
inferior conj	16212 Mar 29 21:27	22° Y ′26'53		evening set	16213 Mar 04 22:28	10° Y 15'14	
minimum elong	16212 Mar 30 00:04		1°13'05	min. Earth dist.	16213 Mar 08 22:37		0.59289 AU
asc. node	16212 Apr 02 17:32	19° Y 14′27		inferior conj	16213 Mar 12 03:59	5° Y ′01'34	
morning rise	16212 Apr 06 03:21	17° Y 27'29		minimum elong	16213 Mar 12 10:09	4° Υ 49'15	2°39'00
direct	16212 Apr 08 07:47	17° Υ ′06'40	170 10110	morning rise	16213 Mar 20 01:26	0° Υ 22'24	
morning max el	16212 Apr 15 03:46	20° Ƴ 32'47	17°49'42	asc. node	16213 Mar 20 14:52	0°Υ15'23	
	16212 Apr 22 06:30	0°8		direct	16213 Mar 22 01:01	0° Y 07'49	10010154
morning set	16212 Apr 30 21:20	14° 8 54'12		morning max el	16213 Mar 29 16:53	3°Υ56'07	18°10'54
desc. node	16212 May 05 07:50	22° ႘ 48'28 0° Ⅱ		morning set	16213 Apr 14 07:50	28° Y 41'15 0° と	
	16212 May 09 10:29	υщ		daga mada	16213 Apr 15 00:38	13° 8 18'00	
superior conj	16212 May 12 01:47	4° ∏ 31'22	0°52'12	desc. node	16213 Apr 22 04:36	13 01800	
minimum elong	16212 May 11 20:57	4° Ⅱ 3122 4° Ⅱ 10'50		superior conj	16213 Apr 24 01:42	16° 8 41'50	0°15'35
max. Earth dist.	16212 May 19 05:26	16° Ⅱ 24'07	1.43561 AU	minimum elong	16213 Apr 24 00:42	16° 8 36'09	
evening rise	16212 May 26 03:53	27° I I25'40	1. 4 5501 A0	behind sun begin	16213 Apr 23 23:32	16° 8 32'05	0 13 30
evening rise	16212 May 27 19:40	0°95		behind sun end	16213 Apr 24 01:21	16° 8 40'12	
	16212 Jun 17 10:27	$0 {\circ} \mathcal{U}$		max. Earth dist.	16213 May 01 16:07	29° 8 54'50	1.41592 AU
evening max el	16212 Jun 26 14:26	10° Ω 57'43	21°33'32	man Barur Gige.	16213 May 01 17:20	0°II	12,2110
asc. node	16212 Jun 29 15:59	13° Ω 41'17		evening rise	16213 May 06 13:21	7° Ⅱ 58'40	
retrograde	16212 Jul 05 14:20	16°Ω11'30		7 · · · · · · · · · · · · · · · · · · ·	16213 May 20 21:52	0°9	
evening set	16212 Jul 10 03:14	14° Ω 19'31		evening max el	16213 Jun 09 06:42	24°952'02	22°53'09
inferior conj	16212 Jul 15 08:44	8° Ω 04'54	3°08'10	C	16213 Jun 16 00:13	$0^{\circ}\Omega$	
minimum elong	16212 Jul 15 08:33	8° Ω 05'35	3°07'33	asc. node	16213 Jun 16 12:54	0° Ω 13'42	
min. Earth dist.	16212 Jul 15 13:49	7° Ω 47'12	0.69031 AU	retrograde	16213 Jun 19 11:07	0° Ω 50′26	
morning rise	16212 Jul 20 13:38	1° Ω 46'44			16213 Jun 22 15:38	30° ℝ ∽	
	16212 Jul 23 11:39	30° ₹ 5		evening set	16213 Jun 24 11:32	28° © 42'55	
direct	16212 Jul 25 12:40	29° 5 39'11		inferior conj	16213 Jun 29 18:45	22° © 19'52	3°00'32
	16212 Jul 27 16:15	0 $^{\circ}\Omega$		minimum elong	16213 Jun 29 17:39	22° © 23'39	2°59'44
desc. node	16212 Aug 01 06:48	2° Ω 38'35		min. Earth dist.	16213 Jun 29 10:47	22° © 47'32	0.69138 AU
morning max el	16212 Aug 04 11:13	5° Ω 31'44	22°39'10	morning rise	16213 Jul 04 23:39	16° © 09'17	
	16212 Aug 23 08:14	0° ™		direct	16213 Jul 09 10:34	14° © 20'02	
morning set	16212 Sep 07 05:01	22° m 59'26		morning max el	16213 Jul 18 03:08	19° 5 21'19	21°14'51
	16212 Sep 11 10:30	0∘ 亚		desc. node	16213 Jul 19 04:03	20°\$25'25	
max. Earth dist.	16212 Sep 11 23:21	0° £ 54'11	1.40714 AU		16213 Jul 27 00:03	0° N	
	16010 0 10 00 00	1.40.0.40100	004040		16213 Aug 16 11:27	0° m)	
superior conj	16212 Sep 19 20:28	14° Ω 40'22		morning set	16213 Aug 18 03:36	2° My 36'35	1 4200C ATT
minimum elong	16212 Sep 20 00:24	14° £ 58'08	0°49'04	max. Earth dist.	16213 Aug 25 04:57	13*11/32/34	1.42896 AU
asc. node	16212 Sep 25 17:01 16212 Sep 28 02:55	25° £ 27'26 0° I L		aumariar aani	16213 Sep 01 12:07	26° m 02'04	1926105
evening rise	16212 Sep 28 02.33 16212 Sep 29 19:37	3°M12'23		superior conj minimum elong	16213 Sep 01 12.07 16213 Sep 01 19:07	26° m) 31'56	
evening max el	16212 Oct 15 17:27	28°M49'24	18°23'34	minimum clong	16213 Sep 01 19:07	0° ⊽	1 23 19
evening max er	16212 Oct 17 17:27	20 IIU→22→ 0° 🗷	10 23 34	evening rise	16213 Sep 12 23:53	0 — 16° ≏ 15'47	
retrograde	16212 Oct 17 00:00 16212 Oct 23 09:42	2° × ⁷ 43'38		asc. node	16213 Sep 12 13:41	16 ≅ 1347 15° £ 29'55	
evening set	16212 Oct 25 09:47	2° x ¹ 28'24		200. Hour	16213 Sep 20 19:01	0° ™	
desc. node	16212 Oct 28 03:57	1°×722'02		evening max el	16213 Sep 29 04:45	11°M42'52	18°03'51
	16212 Oct 30 08:16	30°RM		retrograde	16213 Oct 06 00:39	15°M13'33	
inferior conj	16212 Nov 02 02:47	27°M52'51	-1°35'45	evening set	16213 Oct 08 07:36	14°M50'03	
minimum elong	16212 Nov 01 23:05	28°M00'18		inferior conj	16213 Oct 15 07:18	9°M53'43	-0°04'48
min. Earth dist.	16212 Nov 05 08:32	25° ™ 17'27	0.58151 AU	minimum elong	16213 Oct 15 07:09	9°M54'03	0°04'20
morning rise	16212 Nov 09 08:54	22°M37'15		transit middle	16213 Oct 15 07:09	9° ™ 54'03	0°04'20
direct	16212 Nov 15 16:42	20°M53'27		transit begin	16213 Oct 15 03:58	10°M01'29	
morning max el	16212 Nov 29 23:21	28° M $28'15$	27°14'17	transit end	16213 Oct 15 10:21	9° ™ 46'37	

desc. node	16213 Oct 15 01:14	10°ML07'50		desc. node	16214 Oat 01 22:22	18° ≏ 42'27	
			0.60412.411		16214 Oct 01 22:33	16° £ 4227 16° £ 25'07	
min. Earth dist.	16213 Oct 18 11:15	6°M57'59	0.60412 AU	morning rise	16214 Oct 04 15:02		
morning rise	16213 Oct 22 03:34	4°M06'52		direct	16214 Oct 11 07:22	13° ≏ 59'09	2725442
direct	16213 Oct 28 18:55	1°M.58'38		morning max el	16214 Oct 25 08:00	21° ≏ 56'42	27°54'42
morning max el	16213 Nov 12 00:37	9° ™ 48'42	27°54'05		16214 Nov 01 10:02	0°M₊	
	16213 Nov 27 16:15	0° ∡ ¹			16214 Nov 20 20:17	0° ∡ ¹	
asc. node	16213 Dec 09 14:19	20° ≯ ′50′08		asc. node	16214 Nov 26 11:17	10° ∡ ′39'48	
	16213 Dec 14 03:33	0°₹		morning set	16214 Nov 28 15:11	15° ∡ ′00′16	
morning set	16213 Dec 14 17:23	1°る12'23		max. Earth dist.	16214 Dec 03 19:34	25° ∡ 54'43	1.31770 AU
max. Earth dist.	16213 Dec 20 16:53	14° る 10'56	1.31106 AU		16214 Dec 05 16:37	0°ರ	
superior conj	16213 Dec 21 20:05	16° る 42'29	1°31'21	superior conj	16214 Dec 06 04:51	1° る 07'07	1°19'13
minimum elong	16213 Dec 21 18:36	16° පි 34'13	1°31'56	minimum elong	16214 Dec 06 02:42	0° る 55'15	1°19'39
-	16213 Dec 27 19:47	0° ≈		evening rise	16214 Dec 12 23:08	15° る 58'54	
evening rise	16213 Dec 28 12:38	1° ≈ 31'27		C	16214 Dec 19 18:56	0° ≈ ≈	
desc. node	16214 Jan 11 00:06	27° ≈ 21'25		desc. node	16214 Dec 28 20:58	15° ≈ 23'32	
	16214 Jan 12 15:52	0° ∀		evening max el	16215 Jan 06 15:50	26° ≈ 02'51	24°10'53
evening max el	16214 Jan 25 04:02	15° ¥ 48'38	25°45'59		16215 Jan 11 14:26	0° ∀	
retrograde	16214 Feb 08 02:28	22°\(\frac{1}{2}\)50'31	25 15 57	retrograde	16215 Jan 20 05:49	2° ¥ 47'50	
evening set	16214 Feb 14 01:23	21°\(\frac{1}{2}\)28'33		evening set	16215 Jan 25 05:50	1° X 53'25	
min. Earth dist.	16214 Feb 18 17:02	18°) 49'07	0.57170 AU	evening set	16215 Jan 29 08:16	1 7(33.23 30°R≈	
	16214 Feb 18 17:02	16°) 49'07		in Fronth diet		-	0.55401 ATT
inferior conj				min. Earth dist.	16215 Jan 31 03:29	28°≈57'50	0.55491 AU
minimum elong	16214 Feb 21 23:49	16°) 33'41	4°09'01	inferior conj	16215 Feb 02 04:09	27°≈44'23	
morning rise	16214 Mar 02 01:14	12°) € 31'34		minimum elong	16215 Feb 02 12:16	27°≈32'07	5°25'52
direct	16214 Mar 04 00:59	12° 米 19′19		morning rise	16215 Feb 10 20:33	23° ≈ 45′59	
asc. node	16214 Mar 07 12:12	12° ¥ 58'39		direct	16215 Feb 13 05:24	23° ≈ 31'29	
morning max el	16214 Mar 12 21:58	16° ∺ 40'38	18°52'57	asc. node	16215 Feb 22 09:33	27° ≈ 27'03	
	16214 Mar 22 08:30	0° Y		morning max el	16215 Feb 23 14:47	28° ≈ 34'01	19°57'48
morning set	16214 Mar 29 05:25	12° Y ′57′13			16215 Feb 25 00:01	0° ∀	
				morning set	16215 Mar 13 10:17	27°) € 30′03	
superior conj	16214 Apr 06 20:33	29° Ƴ 42'50	0°18'30		16215 Mar 14 15:43	0 ° Υ	
minimum elong	16214 Apr 06 21:43	29° Y '48'24	0°17'59				
	16214 Apr 07 00:10	0° 8		superior conj	16215 Mar 21 05:48	13° Y 21′23	0°47'01
desc. node	16214 Apr 09 01:20	3° 8 50'23		minimum elong	16215 Mar 21 08:09	13° Y 33'02	0°46'32
max. Earth dist.	16214 Apr 13 23:14	12° 8 44'40	1.39345 AU	desc. node	16215 Mar 26 22:03	24° Y 21'10	
evening rise	16214 Apr 17 20:16	19° 8 27'59		max. Earth dist.	16215 Mar 27 05:53	24° Ƴ 57'57	1.37060 AU
•	16214 Apr 24 05:44	$\Pi^{\circ}0$			16215 Mar 29 23:27	0° ႘	
	16214 May 15 02:46	0°95		evening rise	16215 Mar 30 22:58	1° 8 46'04	
evening max el	16214 May 22 20:46	8°9548'04	24°14'37	3	16215 Apr 17 08:57	0°II	
retrograde	16214 Jun 03 04:40	15° © 25'47		evening max el	16215 May 05 10:16	22° I I42'30	25°31'07
asc. node	16214 Jun 03 09:55	15° © 25'35		retrograde	16215 May 17 17:57	29° I I50'03	
evening set	16214 Jun 08 16:45	13°905'30		asc. node	16215 May 21 07:01	28° I I58'46	
min. Earth dist.	16214 Jun 13 06:49	7°9647'36	0.68761 AU	evening set	16215 May 23 17:12	27° II 20'50	
inferior conj	16214 Jun 14 03:46	6°936'46	2°42'28	min. Earth dist.	16215 May 27 23:45	22° II 39'54	0.67900 AU
minimum elong	16214 Jun 14 01:59	6°9642'51	2°41'25	inferior conj	16215 May 29 09:50	20° Ⅱ 50'15	2°13'32
_	16214 Jun 19 11:16	0°935'11	2 41 23	-	16215 May 29 07:40	20° I 57'15	
morning rise	16214 Jun 20 08:07			minimum elong	16215 Jun 03 22:36	20 Ⅲ 3713 14° Ⅲ 59'01	2 12 17
11		30°RⅡ 29°Ⅱ05'34		morning rise	16215 Jun 03 22:36 16215 Jun 07 10:39	14°Щ3901 13°Щ48'42	
direct	16214 Jun 23 10:26			direct			19°02'34
	16214 Jun 26 17:30	0.22 0.22	20001126	morning max el	16215 Jun 14 07:09	17° Ⅱ 31'34	19-02-34
morning max el	16214 Jul 01 01:29	3°521'45	20°01′26	desc. node	16215 Jun 22 22:23	28° Ⅱ 19'58	
desc. node	16214 Jul 06 01:15	9° © 03'57			16215 Jun 24 02:09	0°®	
_	16214 Jul 20 18:53	$0^{\circ}\Omega$		greatest brilliancy	16215 Jun 27 08:24	4° © 49'19	-0.7m
morning set	16214 Jul 28 09:50	11° Ω 34'22		morning set	16215 Jul 07 17:10	20° © 40'25	
max. Earth dist.	16214 Aug 07 17:33	27° Ω 40′23	1.44613 AU		16215 Jul 13 17:51	0 \circ Ω	
	16214 Aug 09 04:38	0° ™		max. Earth dist.	16215 Jul 21 11:27	12° Ω 02′16	1.45682 AU
superior conj	16214 Aug 13 04:25	6° Mg 25′24	-1°56'18	superior conj	16215 Jul 23 23:32	15° Ω 57'48	-2°12'57
minimum elong	16214 Aug 13 12:02		1°56'03	minimum elong	16215 Jul 24 02:30	16° Ω 09'27	2°13'25
evening rise	16214 Aug 26 10:28	28° m 32'59			16215 Aug 01 19:45	0° ™	
	16214 Aug 27 06:51	0∘ 亚		evening rise	16215 Aug 07 22:14	9° m 51'35	
asc. node	16214 Aug 30 10:22	5° ≙ 21'47		asc. node	16215 Aug 17 07:04	24° m 58'03	
evening max el	16214 Sep 12 19:24	25° ഫ 03'28	18°03'13		16215 Aug 20 14:03	0∘ 亚	
retrograde	16214 Sep 19 05:19	28° ≏ 24'17		evening max el	16215 Aug 27 09:52	8° ≏ 41'59	18°20'39
evening set	16214 Sep 21 20:32	27° ≏ 48'57		retrograde	16215 Sep 02 19:19	12° ≏ 06'24	
inferior conj	16214 Sep 28 05:11	22° ₽ 34'01	1°07'15	evening set	16215 Sep 05 19:23	11° ≏ 16'27	
minimum elong	16214 Sep 28 06:56	22° ≏ 29'21	1°06'50	inferior conj	16215 Sep 11 16:22	5° ≏ 45'30	2°00'16
min. Earth dist.	16214 Sep 30 23:57	19° ≏ 38'19	0.62690 AU	minimum elong	16215 Sep 11 18:41		1°59'36
	- · r · · ·	/			- · r		

min. Earth dist.	16215 Sep 13 22:28	3° △ 07'15	0.64772 AU	inferior conj	16216 Aug 25 13:12	19° m 20'18	2°36'27
	16215 Sep 16 23:21	30°₽,₩		minimum elong	16216 Aug 25 15:14	19° m 13'50	2°35'49
morning rise	16215 Sep 17 16:29	29° m 23'48		min. Earth dist.	16216 Aug 27 05:29	17° m 12'34	0.66529 AU
desc. node	16215 Sep 18 19:55	28° Mp 33'21		morning rise	16216 Aug 31 05:09	12° m 53'32	
direct	16215 Sep 24 04:34	26° Mp 48'18		desc. node	16216 Sep 04 17:17	10° № 27'42	
	16215 Oct 02 08:19	0∘ ⊽		direct	16216 Sep 06 09:20	10° m 16'53	
morning max el	16215 Oct 07 18:51	4° £ 43′28	27°20'19	morning max el	16216 Sep 19 06:28	17° m 55'50	26°18'27
	16215 Oct 27 00:22	0° M			16216 Sep 29 10:30	0∘ ⊽	
morning set	16215 Nov 12 03:49	28°M21'30			16216 Oct 18 23:30	0° M	
	16215 Nov 12 23:49	0° ∡ 7		morning set	16216 Oct 25 04:01	11° M 07'54	
asc. node	16215 Nov 13 08:12	0° ∡ ¹41'37		max. Earth dist.	16216 Oct 28 23:39	18° ™ 25'41	1.34752 AU
max. Earth dist.	16215 Nov 16 14:35	7° ∡ 19'18	1.32994 AU	asc. node	16216 Oct 30 05:01	20°M50'12	
superior conj	16215 Nov 20 09:16	15° ∡ 16'49	1°00'54	superior conj	16216 Nov 03 06:47	29°M04'27	0°36'26
minimum elong	16215 Nov 20 06:55	15° ∡ 04'10	1°01'11	minimum elong	16216 Nov 03 04:55	28° M 54'51	0°36'40
evening rise	16215 Nov 27 09:50	0° る 25'41			16216 Nov 03 17:33	0° ∡	
	16215 Nov 27 05:02	0°ප		evening rise	16216 Nov 10 18:45	14° ∡ °46′05	
	16215 Dec 13 21:15	0° ≈			16216 Nov 18 11:14	0°ಕ	
desc. node	16215 Dec 15 17:55	2° ≈ 21′07		evening max el	16216 Nov 29 19:27	16° る 12'16	20°52'30
evening max el	16215 Dec 19 01:40	5° ≈ 58′04	22°27'14	desc. node	16216 Dec 01 14:56	17° る 51'37	
retrograde	16215 Dec 31 21:05	12° ≈ 18′13		retrograde	16216 Dec 11 06:56	21° る 53'41	
evening set	16216 Jan 04 14:42	11° ≈ 47′36		evening set	16216 Dec 13 20:38	21° る 37'50	
min. Earth dist.	16216 Jan 12 09:30	8° ≈ 16′00	0.54527 AU	inferior conj	16216 Dec 22 15:20	17° る 46'07	-5°35'40
inferior conj	16216 Jan 13 00:34	7° ≈ 54'50	-6°01'59	minimum elong	16216 Dec 22 07:24	17° る 57'28	5°33'39
minimum elong	16216 Jan 13 01:11	7° ≈ 53'57	6°01'22	min. Earth dist.	16216 Dec 23 14:55	17° る 12'23	0.54469 AU
morning rise	16216 Jan 21 12:45	4°≈07'12		morning rise	16216 Dec 30 18:11	13° る 52'12	
direct	16216 Jan 24 17:27	3° ≈ 44′09		direct	16217 Jan 04 00:52	13° る 12'48	
morning max el	16216 Feb 05 16:42	9° ≈ 30'56	21°25'35	morning max el	16217 Jan 17 05:45	19° る 39'49	23°11'04
asc. node	16216 Feb 09 06:53	13° ≈ 27′01			16217 Jan 25 17:36	0° ≈	
	16216 Feb 19 17:55	0°) €		asc. node	16217 Jan 26 04:10	0° ≈ 39'14	
morning set	16216 Feb 25 19:36	12°) 11′46		morning set	16217 Feb 09 07:09	26° ≈ 55'24	
					16217 Feb 10 17:34	0°) €	
superior conj	16216 Mar 04 01:38	27° ¥ 27′12	1°09'15				
minimum elong	16216 Mar 04 04:09	27°) 40′12	1°09'01	superior conj	16217 Feb 16 04:51	11° ¥ 50'54	1°25'06
	16216 Mar 05 07:12	0 ° Υ		minimum elong	16217 Feb 16 06:51	12° ∺ 01'39	1°25'12
max. Earth dist.	16216 Mar 08 16:14	6° Ƴ 49'52	1.34968 AU	max. Earth dist.	16217 Feb 19 09:34	18° ¥ 38'31	1.33237 AU
evening rise	16216 Mar 12 18:12	14° Y 44'21		evening rise	16217 Feb 24 02:27	28° ∺ 13'36	
desc. node	16216 Mar 12 18:44	14° Y 46'52			16217 Feb 25 00:07	0° Y	
	16216 Mar 21 07:35	9° 8		desc. node	16217 Feb 27 15:24	5° Ƴ 02'57	
	16216 Apr 11 00:59	Π $^{\circ}0$			16217 Mar 14 12:30	9° 8	
evening max el	16216 Apr 16 23:53	6° Ⅱ 29′26	26°35'12	evening max el	16217 Mar 30 13:16	20° 8 00'21	27°19'25
retrograde	16216 Apr 30 02:05	13° ∏ 55'31		retrograde	16217 Apr 13 04:11	27° 8 33'20	
evening set	16216 May 06 11:03	11° Ⅱ 22'43		evening set	16217 Apr 19 20:13	25° 8 03'39	
asc. node	16216 May 07 04:12	10° Ⅱ 46′09		min. Earth dist.	16217 Apr 23 16:25	21° 8 29'52	0.64859 AU
min. Earth dist.	16216 May 10 11:35	7° Ⅱ 16′55	0.66583 AU	asc. node	16217 Apr 24 01:25	21° 8 05'44	
inferior conj	16216 May 12 10:45	4° ∏ 55′26	1°32'48	inferior conj	16217 Apr 26 04:03	18° 8 46'30	0°39'03
minimum elong	16216 May 12 08:45	5° Ⅱ 01′28	1°31'32	minimum elong	16217 Apr 26 02:59	18° 8 49'24	0°38'09
	16216 May 17 04:54	30°₹ ႘		morning rise	16217 May 02 11:43	13° 8 20'26	
morning rise	16216 May 18 07:34	29° 8 15'54		direct	16217 May 05 04:05	12° 8 42'47	
direct	16216 May 21 09:17	28° 8 23'17		morning max el	16217 May 11 11:27	15° 8 57'52	17°54'20
	16216 May 25 17:02	Π $^{\circ}0$			16217 May 21 17:17	Π $^{\circ}0$	
morning max el	16216 May 27 19:12	1° Ⅱ 45′58	18°19'57	desc. node	16217 May 26 16:24	8° Ⅱ 06'58	
desc. node	16216 Jun 08 19:26	18° Ⅲ 03′28		morning set	16217 May 29 02:02	12° Ⅱ 05'36	
	16216 Jun 16 08:54	0 \circ \odot			16217 Jun 09 00:55	0 \circ \odot	
morning set	16216 Jun 16 19:58	0° © 43'55					
				superior conj	16217 Jun 12 00:50	4°গু47'11	
superior conj	16216 Jul 02 08:42	25°910'20	-2°10'13	minimum elong	16217 Jun 11 16:15	4° © 13'05	1°48'37
minimum elong	16216 Jul 02 03:55	24°951'40	2°10'44	max. Earth dist.	16217 Jun 16 03:30	11°516'43	1.45595 AU
max. Earth dist.	16216 Jul 03 07:34	26° © 39'29	1.46014 AU	evening rise	16217 Jun 28 00:13	29° © 38'39	
	16216 Jul 05 11:04	$0 {\circ} \Omega$			16217 Jun 28 05:48	0 \circ Ω	
evening rise	16216 Jul 18 08:54	20° Ω 07′25		greatest brilliancy	16217 Jul 12 08:52	21° Ω 13'44	-0.6m
	16216 Jul 24 16:54	0° m			16217 Jul 18 16:10	0° m	
greatest brilliancy	16216 Jul 28 06:11	5°₩28'50	-0.8m	asc. node	16217 Jul 21 00:33	2° m 57'19	
asc. node	16216 Aug 03 03:47	14° Mp 12'26		evening max el	16217 Jul 24 03:35	6° Mp 24′42	19°46'11
evening max el	16216 Aug 09 21:15	22° Mp 30'47	18°55'20	retrograde	16217 Jul 31 13:19	10° m 34'09	
retrograde	16216 Aug 16 14:55	26° Mp 11'43		evening set	16217 Aug 04 08:58	9° ™ 09'54	
evening set	16216 Aug 20 00:27	25° Mp 05'11		inferior conj	16217 Aug 09 16:43	3° Mp 12′36	2°58'15

minimum elong	16217 Aug 09 18:01	3° m)08'17	2°57'42	evening max el	16218 Jul 07 03:52	20° Ω 19'12	20°51'10
min. Earth dist.	16217 Aug 10 19:06	1° M)44'11	0.67872 AU	asc. node	16218 Jul 07 21:23	21° Ω 01'42	
	16217 Aug 12 03:14	30° ₹ Ω		retrograde	16218 Jul 15 12:18	25° Ω 07'11	
morning rise	16217 Aug 15 02:33	26° Ω 46'31		evening set	16218 Jul 19 18:48	23° Ω 25′03	
direct	16217 Aug 20 20:27	24° Ω 16′29		inferior conj	16218 Jul 25 00:23	17° Ω 16'33	3°07'43
desc. node	16217 Aug 22 14:37	24° Ω 28'44		minimum elong	16218 Jul 25 00:45	17° Ω 15'18	3°07'11
	16217 Aug 31 07:29	0° m)		min. Earth dist.	16218 Jul 25 13:08	16° Ω 32'24	0.68751 AU
morning max el	16217 Sep 01 17:31	1°My23'12	24°58'32	morning rise	16218 Jul 30 06:24	10° Ω 54'55	
	16217 Sep 23 10:12	0∘ ⊽		direct	16218 Aug 04 12:35	8° Ω 37'47	
morning set	16217 Oct 07 11:57	23° ≙ 11'15		desc. node	16218 Aug 09 11:57	10° Ω 15'43	
max. Earth dist.	16217 Oct 11 00:29	29° ≙ 32'41	1.36941 AU	morning max el	16218 Aug 15 04:31	14° Ω 59'00	23°30'13
	16217 Oct 11 06:25	0° M ₊			16218 Aug 27 11:22	0° m y	
asc. node	16217 Oct 17 01:47	11° M 01'59			16218 Sep 16 08:27	0∘ 亚	
				morning set	16218 Sep 18 23:26	4° £ 21'21	
superior conj	16217 Oct 17 18:25	12°M23'27	0°06'15	max. Earth dist.	16218 Sep 22 23:08	11° ≙ 10′13	1.39348 AU
minimum elong	16217 Oct 17 18:00	12°M21'23	0°06'36				
behind sun begin	16217 Oct 17 12:00	11° M 51'57		superior conj	16218 Sep 30 16:24	25° ≏ 04'38	-0°28'34
behind sun end	16217 Oct 17 23:59	12°M50'53		minimum elong	16218 Sep 30 18:30	25° ₽ 14'25	0°27'57
evening rise	16217 Oct 25 23:42	28°M55'17			16218 Oct 03 07:10	0° M	
	16217 Oct 26 12:31	0° ∡ ¹		asc. node	16218 Oct 03 22:31	1°ML13'02	
evening max el	16217 Nov 12 03:24	27° ∡ 12′05	19°37'07	evening rise	16218 Oct 09 22:00	12°M46'27	
	16217 Nov 15 12:05	0°ರ			16218 Oct 19 07:13	0° ∡ ¹	
desc. node	16217 Nov 18 11:59	1° る 30'55		evening max el	16218 Oct 26 01:01	9° ∡ '02'03	18°44'07
retrograde	16217 Nov 21 23:29	2° る 07'04		retrograde	16218 Nov 03 09:24	13° ∡ 15′17	
evening set	16217 Nov 23 23:01	1° る 56'01		evening set	16218 Nov 05 07:19	13° ∡ ¹02'47	
	16217 Nov 29 01:52	30°₽ ᡘ ᠯ		desc. node	16218 Nov 05 09:08	13° ∡ 01'48	
inferior conj	16217 Dec 02 15:08	27° ∡ ¹52'36	-4°16'48	inferior conj	16218 Nov 13 10:08	8° ∡ ³39'21	-2°34'29
minimum elong	16217 Dec 02 05:20	28° ∡ ¹08'05	4°13'03	minimum elong	16218 Nov 13 03:51	8° ∡ ¹50'52	2°31'23
min. Earth dist.	16217 Dec 04 22:43	26° ∡ ¹24'48	0.55346 AU	min. Earth dist.	16218 Nov 16 11:45	6° ∡ ¹24'51	0.56980 AU
morning rise	16217 Dec 10 09:55	23° ∡ ³34′05		morning rise	16218 Nov 20 21:18	3° ∡ ¹45'15	
direct	16217 Dec 15 16:42	22° × 31'51		direct	16218 Nov 26 21:59	2° ∡ 16'58	
morning max el	16217 Dec 29 14:02	29° × 129'59	25°00'21	morning max el	16218 Dec 11 02:37	9° ∡ ³38'57	26°34'09
	16217 Dec 30 02:26	5°0			16218 Dec 26 13:23	ರ°0	
asc. node	16218 Jan 13 01:23	18° る 46'39		asc. node	16218 Dec 30 22:33	7° る 35'22	
	16218 Jan 19 04:31	0° ≈		morning set	16219 Jan 09 05:30	26° පි 08'05	
morning set	16218 Jan 24 19:02	11° ≈ 35'41			16219 Jan 11 00:11	0° ≈	
superior conj	16218 Jan 31 12:53	26° ≈ 25′10	1°34'41	superior conj	16219 Jan 15 23:35	11° ≈ 04'03	1°38'09
minimum elong	16218 Jan 31 14:00	26° ≈ 31'19	1°35'05	minimum elong	16219 Jan 15 23:40	11° ≈ 04'27	1°38'44
	16218 Feb 02 04:00	0° ₩		max. Earth dist.	16219 Jan 16 16:31	12° ≈ 38'36	1.31210 AU
max. Earth dist.	16218 Feb 02 10:24	0°) 34′56	1.31970 AU	evening rise	16219 Jan 22 22:05	26° ≈ 15′23	
evening rise	16218 Feb 07 20:37	12° ₩ 06'07			16219 Jan 24 17:09	0° ∀	
desc. node	16218 Feb 14 12:04	25° ∺ 04'25		desc. node	16219 Feb 01 08:45	14° ¥ 45'17	
	16218 Feb 17 05:31	0 ° Υ			16219 Feb 10 17:20	0° Y	
	16218 Mar 10 01:20	8° 0		evening max el	16219 Feb 23 08:15	15° Y 25'48	27°20'46
evening max el	16218 Mar 13 00:54	3° 8 03'23	27°36'32	retrograde	16219 Mar 09 08:46	22° Y 46'53	
retrograde	16218 Mar 26 22:51	10° 8 33'24		evening set	16219 Mar 16 02:11	20° Ƴ 45'19	
evening set	16218 Apr 02 18:12	8° 8 14'14		min. Earth dist.	16219 Mar 19 22:25	17° Ƴ 58'40	0.60592 AU
min. Earth dist.	16218 Apr 06 12:30	5° 8 07'36	0.62819 AU	inferior conj	16219 Mar 23 03:09	15° Ƴ 13'32	-1°49'54
inferior conj	16218 Apr 09 10:41	2° 8 15'31	-0°28'42	minimum elong	16219 Mar 23 07:13	15° Ƴ 04'45	1°48'22
minimum elong	16218 Apr 09 11:37	2° 8 13'11	0°28'39	asc. node	16219 Mar 28 20:01	11° Y ′04'52	
asc. node	16218 Apr 10 22:43	0° 8 48'37		morning rise	16219 Mar 30 15:41	10° Y 22'09	
	16218 Apr 11 20:09	30° ŖƳ		direct	16219 Apr 01 17:45	10° Ƴ 04'19	
morning rise	16218 Apr 16 07:51	27° Ƴ 05′18		morning max el	16219 Apr 08 20:54	13° Ƴ 38'25	17°56'18
direct	16218 Apr 18 16:09	26° Ƴ 39'19			16219 Apr 20 00:19	0° 8	
morning max el	16218 Apr 25 05:05	29° Ƴ 58'19	17°46'11	morning set	16219 Apr 24 11:06	8° 8 02'08	
	16218 Apr 25 05:46	$_{0\circ}$ 8		desc. node	16219 Apr 30 10:05	18° 8 50'31	
morning set	16218 May 11 08:59	24° 8 37'20					
desc. node	16218 May 13 13:16	28° 8 24'08		superior conj	16219 May 04 23:49	26° 8 55'08	-0°37'00
	16218 May 14 11:26	Π °0		minimum elong	16219 May 04 20:35	26° 8 41'05	0°37'02
					16219 May 06 18:37	Π °0	
superior conj	16218 May 23 12:32	15° Ⅱ 18'51		max. Earth dist.	16219 May 12 11:20	9° Ⅱ 34'32	1.42777 AU
minimum elong	16218 May 23 05:37	14° Ⅱ 50′15		evening rise	16219 May 18 09:40	19° Ⅱ 08'33	
max. Earth dist.	16218 May 29 21:19	25° Ⅱ 39'36	1.44479 AU		16219 May 25 10:10	0 \circ	
	16218 Jun 01 14:56	0 \circ			16219 Jun 16 01:54	0 $^{\circ}$ Ω	
evening rise	16218 Jun 07 11:08	9° © 05'42		evening max el	16219 Jun 19 22:36	4° Ω 13'13	22°06'45
	16218 Jun 21 10:51	0 $^{\circ}$ Ω		asc. node	16219 Jun 24 18:17	8° Ω 12'17	

retrograde	16219 Jun 29 10:14	9° Ω 45'35			16220 May 17 20:30	0°ಅ	
evening set	16219 Jul 04 04:08	7° Ω 46'33		evening max el	16220 Jun 01 13:32	18° 9 07'24	23°27'55
inferior conj	16219 Jul 09 10:06	1°Ω28'14	3°06'10	asc. node	16220 Jun 10 15:15	24°9512'35	23 21 33
minimum elong	16219 Jul 09 09:30	1°Ω30'17	3°05'30	retrograde	16220 Jun 12 05:51	24°523'40	
min. Earth dist.	16219 Jul 09 09:34	1°Ω30'03	0.69142 AU	evening set	16220 Jun 17 11:21	22°S10'01	
mm. Earth dist.	16219 Jul 10 11:32	30°R95	0.09112710	inferior conj	16220 Jun 22 19:55	15°9644'01	2°54'10
morning rise	16219 Jul 14 14:43	25°513'20		minimum elong	16220 Jun 22 18:30	15°548'55	2°53'16
direct	16219 Jul 19 08:37	23°513'21		min. Earth dist.	16220 Jun 22 06:20	16°930'47	0.69035 AU
desc. node	16219 Jul 27 09:15	27° 5 24'49		morning rise	16220 Jun 28 01:38	9°537'19	,
morning max el	16219 Jul 28 17:55	28°543'08	22°02'20	direct	16220 Jul 02 07:24	7°956'36	
	16219 Jul 29 23:35	0° Ω		morning max el	16220 Jul 10 12:30	12°937'34	20°42'05
	16219 Aug 21 02:56	0°m		desc. node	16220 Jul 13 06:30	15°935'22	
morning set	16219 Aug 30 11:21	14° mp 31'37			16220 Jul 24 03:42	0°N	
max. Earth dist.	16219 Sep 05 01:48	23° m/39'46	1.41688 AU	morning set	16220 Aug 09 01:33	23° Ω 48'13	
	16219 Sep 08 20:02	0∘ <u>⊽</u>		C	16220 Aug 13 00:48	0° m/p	
	•			max. Earth dist.	16220 Aug 17 10:39	7° m)01'10	1.43687 AU
superior conj	16219 Sep 12 20:21	6° £ 57'45	-1°05'30		•	-	
minimum elong	16219 Sep 13 01:42	7° ≙ 21'16	1°04'41	superior conj	16220 Aug 24 02:13	17° m 54'19	-1°40'05
asc. node	16219 Sep 20 19:12	21° ≏ 19'40		minimum elong	16220 Aug 24 09:58	18° m) 26'44	1°39'27
evening rise	16219 Sep 23 10:08	26° ≙ 10'35		· ·	16220 Aug 31 04:54	0∘ ⊽	
•	16219 Sep 25 11:48	0° M ₊		evening rise	16220 Sep 05 07:35	8° ≏ 56'16	
evening max el	16219 Oct 09 08:31	21°MJ34'47	18°12'43	asc. node	16220 Sep 06 15:52	11° ≙ 18'13	
retrograde	16219 Oct 16 14:48	25°M17'36			16220 Sep 18 00:24	0° M	
evening set	16219 Oct 18 17:33	24°M59'16		evening max el	16220 Sep 21 21:41	4° I ቤ40'47	18°01'20
desc. node	16219 Oct 23 06:23	22°M33'38		retrograde	16220 Sep 28 12:19	8°ML06'03	
inferior conj	16219 Oct 26 03:00	20°MJ14'16	-0°55'06	evening set	16220 Sep 30 22:33	7° M L38'03	
minimum elong	16219 Oct 26 01:00	20°M18'34	0°53'46	inferior conj	16220 Oct 07 15:29	2°M33'29	0°28'07
min. Earth dist.	16219 Oct 29 08:59	17°ML28'00	0.59091 AU	minimum elong	16220 Oct 07 16:20	2°MJ31'22	0°28'07
morning rise	16219 Nov 02 05:04	14°M44'23		desc. node	16220 Oct 09 03:42	1°ML03'34	
direct	16219 Nov 08 16:44	12°M49'59			16220 Oct 10 05:44	30° ₽ Ω	
morning max el	16219 Nov 22 23:36	20°MJ31'31	27°36'10	min. Earth dist.	16220 Oct 10 16:08	29° ≙ 35'14	0.61382 AU
-	16219 Dec 01 04:16	0° ∡ ¹		morning rise	16220 Oct 14 07:15	26° ♀ 35'43	
asc. node	16219 Dec 17 19:38	26° ₹ 53'57		direct	16220 Oct 20 23:34	24° ≏ 19'02	
	16219 Dec 19 10:06	0°ප			16220 Nov 01 18:28	0° M	
morning set	16219 Dec 24 12:40	10° ට 27'02		morning max el	16220 Nov 04 04:06	2°M14'09	27°59'06
					16220 Nov 24 14:00	0° ∡ ¹	
superior conj	16219 Dec 31 11:01	25° ප් 41'11	1°35'35	asc. node	16220 Dec 03 16:39	16° ∡ ³34'17	
minimum elong	16219 Dec 31 10:04	25° る 35'49	1°36'12	morning set	16220 Dec 07 14:34	24° ∡ ¹28′08	
max. Earth dist.	16219 Dec 31 00:19	24° පි 41'14	1.30985 AU		16220 Dec 10 05:27	0°ರ	
	16220 Jan 02 09:14	0° ≈		max. Earth dist.	16220 Dec 13 05:54	6° ප 33'58	1.31317 AU
evening rise	16220 Jan 07 04:33	10° ≈ 34'57					
	16220 Jan 16 23:24	0°) €		superior conj	16220 Dec 14 21:20	10°る12'05	1°26'57
desc. node	16220 Jan 19 05:30	3°) € 56'43		minimum elong	16220 Dec 14 19:31	10° ප 02'01	1°27'29
evening max el	16220 Feb 05 08:27	26° ¥ 56′06	26°29'48	evening rise	16220 Dec 21 14:07	25° る 00'42	
	16220 Feb 08 22:55	0 ° $\mathbf{\Upsilon}$			16220 Dec 23 22:14	0° ≈	
retrograde	16220 Feb 19 08:24	4° Υ 05'51		desc. node	16221 Jan 05 02:20	22° ≈ 28′13	
evening set	16220 Feb 25 16:44	2° Y 27′52			16221 Jan 10 07:58	0° ∀	
	16220 Feb 29 16:26	30° ₹ ₩		evening max el	16221 Jan 17 00:09	7° ∺ 34'01	25°07'38
min. Earth dist.	16220 Feb 29 21:53	29° ¥ 50′15	0.58361 AU	retrograde	16221 Jan 30 20:05	14° ∺ 30′05	
inferior conj	16220 Mar 04 01:36	27° ∺ 29'05		evening set	16221 Feb 05 10:22	13° ∺ 19'43	
minimum elong	16220 Mar 04 09:15	27°) 1 4′46	3°17'22	min. Earth dist.	16221 Feb 10 12:34	10° ∺ 35'38	0.56388 AU
morning rise	16220 Mar 12 05:13	22° ∺ 59'11		inferior conj	16221 Feb 13 03:10	8° ¥ 54'08	-4°47'28
direct	16220 Mar 14 04:14	22°) 46′00		minimum elong	16221 Feb 13 12:36	8°) 38′49	4°44'41
asc. node	16220 Mar 14 17:22	22°) 47′03		morning rise	16221 Feb 21 17:28	4°) 45′26	
morning max el	16220 Mar 22 07:08	26°) 46′34	18°26'10	direct	16221 Feb 23 19:36	4°) 33′00	
	16220 Mar 25 03:25	0 ° $\mathbf{\gamma}$		asc. node	16221 Mar 01 14:43	6° ∺ 15'45	
morning set	16220 Apr 07 02:50	22° Y 02'46		morning max el	16221 Mar 05 07:35	9° ₩ 10'55	19°17'40
	16220 Apr 11 06:47	9° 8			16221 Mar 18 21:11	0° Υ	
				morning set	16221 Mar 22 03:51	6° Y 26'33	
superior conj	16220 Apr 16 08:22	9° 8 28'35					
minimum elong	16220 Apr 16 08:18	9° 8 28'16	0°00'56	superior conj	16221 Mar 30 09:52	22° Y 46′56	0°31'19
behind sun begin	16220 Apr 16 01:06	8° 8 55'11		minimum elong	16221 Mar 30 11:41	22° Y 55'42	0°30'48
behind sun end	16220 Apr 16 15:30	10° 8 01'17		desc. node	16221 Apr 03 03:33	29° Ƴ 53'27	
desc. node	16220 Apr 16 06:50	9° 8 21'28			16221 Apr 03 04:57	0° 8	
max. Earth dist.	16220 Apr 23 20:32	22° 8 48'45	1.40657 AU	max. Earth dist.	16221 Apr 06 02:29	5° 8 19'33	1.38361 AU
evening rise	16220 Apr 28 04:09	0° Ⅱ 04'58		evening rise	16221 Apr 09 19:48	11° 8 55'43	
	16220 Apr 28 02:57	Π $^{\circ}$ 0			16221 Apr 20 20:12	$\Pi^{\circ}0$	

	16221 May 13 03:33	0°©			16222 Apr 14 10:19	0°Щ	
evening max el	16221 May 15 02:59	2°902'10	24°48'14	evening max el	16222 Apr 27 16:40	15° I 55'15	26°00'25
retrograde	16221 May 26 21:52	8°954'49		retrograde	16222 May 10 09:11	23° I I12'16	
asc. node	16221 May 28 12:19	8°9544'03		asc. node	16222 May 15 09:27	21° II 32'35	
evening set	16221 Jun 01 14:45	6°930'04		evening set	16222 May 16 12:38	20° Ⅱ 41′06	
min. Earth dist.	16221 Jun 06 01:22	1° 5 27'56	0.68445 AU	min. Earth dist.	16222 May 20 16:31	16° Ⅱ 15'05	0.67390 AU
inferior conj	16221 Jun 07 03:56	29° Ⅱ 59'43	2°31'36	inferior conj	16222 May 22 08:07	14° ∐ 11′02	1°57'49
minimum elong	16221 Jun 07 01:55	0°906'24	2°30'26	minimum elong	16222 May 22 05:56	14° Ⅱ 17'53	1°56'30
	16221 Jun 07 03:51	30°RⅡ		morning rise	16222 May 27 23:56	8° Ⅱ 24'19	
morning rise	16221 Jun 12 13:20	24° Ⅱ 02'19		direct	16222 May 31 07:28	7° Ⅱ 21'44	
direct	16221 Jun 16 07:34	22° I I41'12		morning max el	16222 Jun 06 22:31	10° Ⅱ 54'39	18°42'19
morning max el	16221 Jun 23 13:59	26° Ⅱ 42'07	19°34'26	desc. node	16222 Jun 17 00:46	24° Ⅱ 00′03	
	16221 Jun 26 14:26	0ංම			16222 Jun 20 23:53	0ංම	
desc. node	16221 Jun 30 03:41	4° © 31'00		morning set	16222 Jun 28 19:27	12° © 07'33	
greatest brilliancy	16221 Jul 06 08:33	13° © 16'36	-0.6m		16222 Jul 10 06:46	$0^{\circ}\Omega$	
	16221 Jul 17 11:21	0 $^{\circ}$ Ω		max. Earth dist.	16222 Jul 13 20:06	5° £ 32'31	1.45919 AU
morning set	16221 Jul 19 05:35	2° Ω 41'44					
max. Earth dist.	16221 Jul 31 01:08	21° Ω 02'45	1.45144 AU	superior conj	16222 Jul 14 21:47	7° Ω 12'40	
				minimum elong	16222 Jul 14 21:24	7° Ω 11'13	2°14'55
superior conj	16221 Aug 04 08:41	27° Ω 53'13			16222 Jul 29 08:50	0° m	
minimum elong	16221 Aug 04 15:03	28° Ω 18'35	2°05'34	evening rise	16222 Jul 30 09:58	1° m 40'10	
	16221 Aug 05 16:23	0° m		greatest brilliancy	16222 Aug 05 12:23	11° m)23'33	-0.9m
evening rise	16221 Aug 18 08:59	20° Mp 49'10		asc. node	16222 Aug 11 09:16	20° m 31'28	
	16221 Aug 23 21:06	0∘ ⊽			16222 Aug 18 07:54	0∘ ⊽	
asc. node	16221 Aug 24 12:33	1° ≙ 03'47		evening max el	16222 Aug 20 02:09	1° ≏ 53'24	18°33'23
evening max el	16221 Sep 05 12:37	18° ഫ 09'34	18°08'33	retrograde	16222 Aug 26 13:57	5° ≏ 22'53	
retrograde	16221 Sep 11 21:21	21° ≏ 30'25		evening set	16222 Aug 29 18:02	4° ≏ 26′01	
evening set	16221 Sep 14 16:11	20° ≏ 49'17			16222 Sep 03 11:34	30°R, Mp	
inferior conj	16221 Sep 20 19:28	15° ≏ 27'33	1°31'56	inferior conj	16222 Sep 04 11:07	28° m 49'09	2°17'30
minimum elong	16221 Sep 20 21:36	15° ≏ 21'38	1°31'21	minimum elong	16222 Sep 04 13:24	28° m 42'13	2°16'49
min. Earth dist.	16221 Sep 23 09:14	12° ≏ 37'04	0.63604 AU	min. Earth dist.	16222 Sep 06 11:27	26° My 22'30	0.65573 AU
desc. node	16221 Sep 26 01:04	10° ≙ 00'58		morning rise	16222 Sep 10 07:33	22° m 24'42	
morning rise	16221 Sep 27 01:01	9° ≏ 12'05		desc. node	16222 Sep 12 22:26	20° Mp 41'01	
direct	16221 Oct 03 16:10	6° ≏ 40'37		direct	16222 Sep 16 16:50	19° m 47'32	
morning max el	16221 Oct 17 13:11	14° ≏ 39'24	27°43'56	morning max el	16222 Sep 30 00:20	27° m 37'09	26°56'43
	16221 Oct 30 01:35	0° M ₊			16222 Oct 02 06:33	0∘ ⊽	
	16221 Nov 17 05:15	0° ∡ ¹			16222 Oct 23 18:37	0°M	
asc. node	16221 Nov 20 13:35	6° ₹ ¹29'23		morning set	16222 Nov 04 16:30	21°M11'48	
morning set	16221 Nov 21 08:48	8° × 05'13	1 22216 411	asc. node	16222 Nov 07 10:27	26°M34'10	1 22 600 111
max. Earth dist.	16221 Nov 26 05:25	18° × '08'14	1.32216 AU	max. Earth dist.	16222 Nov 08 20:02	29°M22'26	1.33680 AU
	1/221 N 20 04 22	240 720152	1012112		16222 Nov 09 03:27	0° ∡ ¹	
superior conj	16221 Nov 29 04:32		1°12'12		16222 Nov. 12, 06.10	00.721141	0051116
minimum elong	16221 Nov 29 02:13	24°ダ18'17 0°る	1-12-33	superior conj minimum elong	16222 Nov 13 06:19	8° ҂ ³31'41 8° ҂ ³19'49	0°51'16 0°51'31
evening rise	16221 Dec 01 16:45 16221 Dec 06 00:53	0 る 9° る 27'55		evening rise	16222 Nov 13 04:04 16222 Nov 20 11:01	8 x ⋅1949 23° x ⋅52'06	0 3131
evening risc	16221 Dec 16 10:53	9° ≈		evening rise	16222 Nov 23 09:31	25 メ 32 00	
desc. node	16221 Dec 10 10.33	0 ≈ 10°≈05'16		desc. node	16222 Dec 09 20:13	0 0 26°る28'33	
evening max el	16221 Dec 22 23:13 16221 Dec 29 10:07	10 ≈05 10 17°≈36'07	23°26'49	evening max el	16222 Dec 10 22:19	20 3 2833 27° る 35'10	21°45'06
retrograde	16222 Jan 11 18:12	24°≈12'04	23 20 47	evening max er	16222 Dec 13 16:33	0°≈	21 43 00
evening set	16222 Jan 16 05:31	23°≈28'50		retrograde	16222 Dec 23 05:20	0 ~ 3° ≈ 39'41	
min. Earth dist.	16222 Jan 22 21:05	20°≈20'06	0.54977 AU	evening set	16222 Dec 26 10:06	3°≈16'40	
inferior conj	16222 Jan 24 08:31	19° ≈ 28'36		3.0	16223 Jan 03 00:44	30°Rる	
minimum elong	16222 Jan 24 14:09	19° ≈ 20'24		inferior conj	16223 Jan 04 00:44	29° る 26'36	-5°58'28
morning rise	16222 Feb 02 00:12	15°≈35'55	0 1, 10	minimum elong	16223 Jan 03 21:14		5°57'35
direct	16222 Feb 04 16:05	15° ≈ 18'45		min. Earth dist.	16223 Jan 04 02:19	29° る 24'22	0.54386 AU
morning max el	16222 Feb 15 18:15	20°≈40'51	20°32'23	morning rise	16223 Jan 12 09:02	25° ට 38'41	0.5 1500 110
asc. node	16222 Feb 16 12:02	21°≈25'15		direct	16223 Jan 16 00:54	25° ろ 09'22	
	16222 Feb 23 02:58	0° ∀			16223 Jan 27 05:09	0°≈	
morning set	16222 Mar 06 10:56	21°) 04'09		morning max el	16223 Jan 28 13:51	1° ≈ 14'10	22°08'51
	16222 Mar 10 18:24	0° Υ		asc. node	16223 Feb 03 09:21	7°≈58'03	. * * -
	10 10.21				16223 Feb 16 02:38	0° ∀	
superior conj	16222 Mar 14 00:04	6° Ƴ 38'29	0°57'13	morning set	16223 Feb 18 21:28	5°) 47'32	
minimum elong	16222 Mar 14 02:35	6° Υ 51'13	0°56'49	<i>5</i>	00		
max. Earth dist.	16222 Mar 19 09:56	17° Y ′20′38	1.36136 AU	superior conj	16223 Feb 25 23:21	20°) 52'42	1°16'45
desc. node	16222 Mar 21 00:14	20° Υ 22'45		minimum elong	16223 Feb 26 01:43	21° ¥ 05'07	1°16'38
evening rise	16222 Mar 23 06:03	24° Y 32'50		max. Earth dist.	16223 Mar 01 23:20	29° ∺ 10'48	1.34185 AU
-		$0^{\circ}B$			16223 Mar 02 09:01	$0^{\circ}\Upsilon$	
	16222 Mar 26 06:48	0.0			10223 Mai 02 09.01	O I	

16000 14 06 05 14 5000 500	1600451 15 00 00	212//25/41	
evening rise $16223 \text{ Mar } 06 07:14 7^{\circ}\text{Y}45^{\circ}32 $	16224 Feb 17 20:03	21° ¥ 25'41	
desc. node 16223 Mar 07 20:52 10° Υ 44'52	16224 Feb 22 05:40	0° Y	
16223 Mar 18 21:41 0° ∀ desc. node	16224 Feb 22 17:32	0° Ƴ 55'38	
evening max el 16223 Apr 10 06:32 29°837'32 26°56'54	16224 Mar 11 18:26	9° 8	
16223 Apr 10 15:51 0° II evening max el	16224 Mar 22 19:23	12° 8 58'06	27°30'15
retrograde 16223 Apr 23 14:39 7° II 06'58 retrograde	16224 Apr 05 13:30	20° 8 30'16	
evening set 16223 Apr 30 03:01 4°II34'53 evening set	16224 Apr 12 07:44	18° 8 03'58	
	•	14° 8 42'43	0.64025.411
· · · · · · · · · · · · · · · · · · ·	16224 Apr 16 02:44	_	0.64035 AU
min. Earth dist. 16223 May 04 01:37 0° II 43'04 0.65901 AU asc. node	16224 Apr 18 03:54	12° 8 34'26	
16223 May 04 16:43 30° R ★ inferior conj	16224 Apr 18 19:15	11° 8 53'52	0°12'03
inferior conj 16223 May 06 06:07 28°811'13 1°11'41 minimum elong	16224 Apr 18 18:55	11° 8 54'47	0°11'30
minimum elong 16223 May 06 04:24 28° \$\frac{1}{6}12\$ 1°10'31 transit middle	16224 Apr 18 18:55	11° 8 54'47	0°11'30
morning rise 16223 May 12 07:11 22° \(\delta 36'57 \) transit begin	16224 Apr 18 16:45	12° 8 00'29	
direct 16223 May 15 04:53 21°850'54 transit end	16224 Apr 18 21:05	11° 8 49'05	
-	•	6° 8 34'23	
	16224 Apr 25 08:24	_	
16223 May 25 16:32 0° <u>II</u> direct	16224 Apr 27 21:17	6° 8 02'01	
desc. node 16223 Jun 03 21:44 13° II 52'44 morning max el	16224 May 04 05:48	9° 8 16'56	17°48'41
morning set 16223 Jun 09 09:41 22° II 44'12	16224 May 18 09:10	Π $^{\circ}0$	
16223 Jun 13 21:58 0°5 desc. node	16224 May 20 18:38	4° Ⅱ 02'33	
morning set	16224 May 21 02:54	4° Ⅲ 37'28	
superior conj 16223 Jun 24 07:46 16°\$29'47 -2°03'04			
1 3	1/22/11 02 07 00	260H27120	1025120
minimum elong 16223 Jun 24 00:36 16°\$01'41 2°03'20 superior conj	16224 Jun 03 07:09	26° Ⅲ 27'20	
max. Earth dist. 16223 Jun 26 16:55 20°S13'17 1.45936 AU minimum elong	16224 Jun 02 22:48	25° Ⅱ 53'37	1°35'08
16223 Jul 02 23:48 $0^{\circ}\Omega$	16224 Jun 05 12:09	0 \circ	
evening rise $16223 \text{ Jul} = 10 11:04 11^{\circ}\Omega 33'18$ max. Earth dist.	16224 Jun 08 12:31	4° 5 47'21	1.45206 AU
greatest brilliancy 16223 Jul 22 10:45 $29^{\circ}\Omega52'19$ -0.7m evening rise	16224 Jun 18 22:21	20°957'09	
16223 Jul 22 12:48 0° mp	16224 Jun 24 21:30	$0^{\circ}\Omega$	
asc. node 16223 Jul 29 06:01 9° m 34'18 asc. node	16224 Jul 15 02:49	28°Ω03'16	
•			20012114
evening max el 16223 Aug 03 11:36 15° m 44'59 19°15'05 evening max el	16224 Jul 16 15:17	29° Ω 38'59	20°12'14
retrograde 16223 Aug 10 11:00 19° Mp 36'18	16224 Jul 16 23:52	0° m	
evening set 16223 Aug 14 00:52 18° Mp 22'05 retrograde	16224 Jul 24 09:58	4° Mp 04'02	
inferior conj 16223 Aug 19 11:06 12° Mp 31'40 2°47'17 evening set	16224 Jul 28 10:11	2° m 31'58	
minimum elong 16223 Aug 19 12:51 12° Mp 25'57 2°46'42	16224 Jul 30 23:46	30° ₽ Ω	
min. Earth dist. 16223 Aug 20 21:22 10° Mp 40'09 0.67160 AU inferior conj	16224 Aug 02 16:40	26° Ω 29'28	3°03'41
morning rise 16223 Aug 25 00:13 6° m 04'53 minimum elong	16224 Aug 02 17:34	26°Ω26'23	3°03'10
	•		
desc. node 16223 Aug 30 19:46 3° Mg 30'33 min. Earth dist.	16224 Aug 03 13:06	25° Ω 19'45	0.68303 AU
direct 16223 Aug 31 00:15 3° M 30'25 morning rise	16224 Aug 08 00:35	20° Ω 04'52	
morning max el 16223 Sep 12 11:44 10° m 56'41 25°46'06 direct	16224 Aug 13 13:27	17° Ω 40′01	
16223 Sep 27 16:56 0° ⊆ desc. node	16224 Aug 16 17:06	18° Ω 19'26	
16223 Oct 16 09:22 0° M morning max el	16224 Aug 24 22:47	24° Ω 28'47	24°21'28
morning set 16223 Oct 18 10:16 3°MA0'42	16224 Aug 29 21:59	0° m)	
e a constant of the constant o	-	ەر 20° <u>0</u>	
max. Earth dist. 16223 Oct 22 01:24 10°M27'10 1.35642 AU	16224 Sep 20 03:02		
asc. node 16223 Oct 25 07:15 16°M.44'33 morning set	16224 Sep 29 09:59	15° ≏ 22'31	
max. Earth dist.	16224 Oct 03 00:47	21° ≏ 44'57	1.37952 AU
superior conj 16223 Oct 28 00:03 22°ML08'07 0°24'18	16224 Oct 07 12:41	0° M	
minimum elong 16223 Oct 27 22:40 22°Ml01'09 0°24'33			
16223 Oct 31 20:11 0° ✓ superior conj	16224 Oct 10 06:19	5° M 11'47	-0°08'05
evening rise $16223 \text{ Nov } 04 18:34 8^{\circ} \cancel{\times} 08!44$ minimum elong	16224 Oct 10 06:51	5°M14'18	
			0 07 39
16223 Nov 16 12:30 0° ♂ behind sun begin	16224 Oct 10 00:47	4°M45'09	
evening max el 16223 Nov 22 21:44 8° 3 06'35 20°17'45 behind sun end	16224 Oct 10 12:55	5° ™ 43'30	
desc. node 16223 Nov 26 17:16 11° ₹ 14′54 asc. node	16224 Oct 11 03:59	6° ™ 56'18	
retrograde 16223 Dec 03 16:30 13°₹28'41 evening rise	16224 Oct 18 21:05	22°Ml11'15	
evening set 16223 Dec 05 22:29 13°\(\frac{7}{3}15'45 \)	16224 Oct 22 20:40	0° ∡ 7	
inferior conj 16223 Dec 14 17:37 9°\(\frac{2}{3}20'05 -5°07'08 \) evening max el	16224 N 04 11.42	19° ∡ ′27′26	19°11'49
·			17 11 17
minimum alang 16777 Dec 14 07:57 0° \$24'72 5°04'10 dece node	16224 Nov 04 11:43	240.700124	
minimum elong 16223 Dec 14 07:57 9°\(\frac{3}{3}423 \) 5°04'10 desc. node	16224 Nov 12 14:24	24° ×7 00'34	
min. Earth dist. 16223 Dec 16 08:01 8°€23'19 0.54731 AU retrograde	16224 Nov 12 14:24 16224 Nov 13 15:59	24° ∡ °04′10	
min. Earth dist. 16223 Dec 16 08:01 8° る23'19 0.54731 AU retrograde morning rise 16223 Dec 22 16:51 5° る18'11 evening set	16224 Nov 12 14:24	24° х 04′10 23° х 53′12	
min. Earth dist. 16223 Dec 16 08:01 8°€23'19 0.54731 AU retrograde	16224 Nov 12 14:24 16224 Nov 13 15:59	24° ∡ °04′10	-3°34'27
min. Earth dist. 16223 Dec 16 08:01 8° る23'19 0.54731 AU retrograde morning rise 16223 Dec 22 16:51 5° る18'11 evening set	16224 Nov 12 14:24 16224 Nov 13 15:59 16224 Nov 15 13:27	24° х 04′10 23° х 53′12	
min. Earth dist. 16223 Dec 16 08:01 8°云23'19 0.54731 AU retrograde morning rise 16223 Dec 22 16:51 5°云18'11 evening set direct 16223 Dec 27 10:22 4°云29'52 inferior conj morning max el 16224 Jan 09 23:36 11°云10'24 23°58'18 minimum elong	16224 Nov 12 14:24 16224 Nov 13 15:59 16224 Nov 15 13:27 16224 Nov 24 00:48 16224 Nov 23 16:09	24° 🖈 04'10 23° 🖈 53'12 19° 🖈 41'41 19° 🖈 56'14	3°30'43
min. Earth dist. 16223 Dec 16 08:01 8° る23'19 0.54731 AU retrograde morning rise 16223 Dec 22 16:51 5° る18'11 evening set direct 16223 Dec 27 10:22 4° る29'52 inferior conj morning max el 16224 Jan 09 23:36 11° る10'24 23° 58'18 minimum elong asc. node 16224 Jan 21 06:36 25° る35'41 min. Earth dist.	16224 Nov 12 14:24 16224 Nov 13 15:59 16224 Nov 15 13:27 16224 Nov 24 00:48 16224 Nov 23 16:09 16224 Nov 26 17:47	24° 🗷 04'10 23° 🗷 53'12 19° 🗷 41'41 19° 🗷 56'14 17° 🗷 52'37	
min. Earth dist. 16223 Dec 16 08:01 8°♂23'19 0.54731 AU retrograde morning rise 16223 Dec 22 16:51 5°♂18'11 evening set direct 16223 Dec 27 10:22 4°♂29'52 inferior conj morning max el 16224 Jan 09 23:36 11°♂10'24 23°58'18 minimum elong asc. node 16224 Jan 21 06:36 25°♂35'41 min. Earth dist. 16224 Jan 23 22:22 0°≈ morning rise	16224 Nov 12 14:24 16224 Nov 13 15:59 16224 Nov 15 13:27 16224 Nov 24 00:48 16224 Nov 23 16:09 16224 Nov 26 17:47 16224 Dec 01 16:23	24° 🗷 04'10 23° 🗷 53'12 19° 🗷 41'41 19° 🗷 56'14 17° 🗷 52'37 15° 🗷 08'22	3°30'43
min. Earth dist. 16223 Dec 16 08:01 8°♂23'19 0.54731 AU retrograde morning rise 16223 Dec 22 16:51 5°♂18'11 evening set direct 16223 Dec 27 10:22 4°♂29'52 inferior conj morning max el 16224 Jan 09 23:36 11°♂10'24 23°58'18 minimum elong asc. node 16224 Jan 21 06:36 25°♂35'41 min. Earth dist. 16224 Jan 23 22:22 0°≈ morning rise morning set 16224 Feb 03 09:25 20°≈30'56 direct	16224 Nov 12 14:24 16224 Nov 13 15:59 16224 Nov 15 13:27 16224 Nov 24 00:48 16224 Nov 23 16:09 16224 Nov 26 17:47 16224 Dec 01 16:23 16224 Dec 07 07:17	24° \$\tilde{\$7}\$04'10 23° \$\tilde{\$7}\$53'12 19° \$\tilde{\$7}\$41'41 19° \$\tilde{\$7}\$56'14 17° \$\tilde{\$7}\$52'37 15° \$\tilde{\$7}\$08'22 13° \$\tilde{\$7}\$55'32	3°30'43 0.55956 AU
min. Earth dist. 16223 Dec 16 08:01 8°♂23'19 0.54731 AU retrograde morning rise 16223 Dec 22 16:51 5°♂18'11 evening set direct 16223 Dec 27 10:22 4°♂29'52 inferior conj morning max el 16224 Jan 09 23:36 11°♂10'24 23°58'18 minimum elong asc. node 16224 Jan 21 06:36 25°♂35'41 min. Earth dist. 16224 Jan 23 22:22 0°≈ morning rise	16224 Nov 12 14:24 16224 Nov 13 15:59 16224 Nov 15 13:27 16224 Nov 24 00:48 16224 Nov 23 16:09 16224 Nov 26 17:47 16224 Dec 01 16:23	24° \$\tilde{\$7}\$04'10 23° \$\tilde{\$7}\$53'12 19° \$\tilde{\$7}\$41'41 19° \$\tilde{\$7}\$56'14 17° \$\tilde{\$7}\$52'37 15° \$\tilde{\$7}\$08'22 13° \$\tilde{\$7}\$55'32 21° \$\tilde{\$7}\$04'58	3°30'43 0.55956 AU
min. Earth dist. 16223 Dec 16 08:01 8°♂23'19 0.54731 AU retrograde morning rise 16223 Dec 22 16:51 5°♂18'11 evening set direct 16223 Dec 27 10:22 4°♂29'52 inferior conj morning max el 16224 Jan 09 23:36 11°♂10'24 23°58'18 minimum elong asc. node 16224 Jan 21 06:36 25°♂35'41 min. Earth dist. 16224 Jan 23 22:22 0°≈ morning rise morning set 16224 Feb 03 09:25 20°≈30'56 direct 16224 Feb 07 18:00 0°升 morning max el	16224 Nov 12 14:24 16224 Nov 13 15:59 16224 Nov 15 13:27 16224 Nov 24 00:48 16224 Nov 23 16:09 16224 Nov 26 17:47 16224 Dec 01 16:23 16224 Dec 07 07:17	24° \$\tilde{\$7}\$04'10 23° \$\tilde{\$7}\$53'12 19° \$\tilde{\$7}\$41'41 19° \$\tilde{\$7}\$56'14 17° \$\tilde{\$7}\$52'37 15° \$\tilde{\$7}\$08'22 13° \$\tilde{\$7}\$55'32	3°30'43 0.55956 AU
min. Earth dist. 16223 Dec 16 08:01 8°♂23'19 0.54731 AU retrograde morning rise 16223 Dec 22 16:51 5°♂18'11 evening set direct 16223 Dec 27 10:22 4°♂29'52 inferior conj morning max el 16224 Jan 09 23:36 11°♂10'24 23°58'18 minimum elong asc. node 16224 Jan 21 06:36 25°♂35'41 min. Earth dist. 16224 Jan 23 22:22 0°≈ morning rise morning set 16224 Feb 03 09:25 20°≈30'56 direct	16224 Nov 12 14:24 16224 Nov 13 15:59 16224 Nov 15 13:27 16224 Nov 24 00:48 16224 Nov 23 16:09 16224 Nov 26 17:47 16224 Dec 01 16:23 16224 Dec 07 07:17 16224 Dec 21 09:04	24° \$\tilde{\$7}\$04'10 23° \$\tilde{\$7}\$53'12 19° \$\tilde{\$7}\$41'41 19° \$\tilde{\$7}\$56'14 17° \$\tilde{\$7}\$52'37 15° \$\tilde{\$7}\$08'22 13° \$\tilde{\$7}\$55'32 21° \$\tilde{\$7}\$04'58	3°30'43 0.55956 AU
min. Earth dist. 16223 Dec 16 08:01 8°♂23'19 0.54731 AU retrograde morning rise 16223 Dec 22 16:51 5°♂18'11 evening set direct 16223 Dec 27 10:22 4°♂29'52 inferior conj morning max el 16224 Jan 09 23:36 11°♂10'24 23°58'18 minimum elong asc. node 16224 Jan 21 06:36 25°♂35'41 min. Earth dist. 16224 Jan 23 22:22 0°≈ morning rise morning set 16224 Feb 03 09:25 20°≈30'56 direct 16224 Feb 07 18:00 0°ℋ morning max el superior conj 16224 Feb 10 04:55 5°ℋ21'58 1°29'56 asc. node	16224 Nov 12 14:24 16224 Nov 13 15:59 16224 Nov 15 13:27 16224 Nov 24 00:48 16224 Nov 23 16:09 16224 Nov 26 17:47 16224 Dec 01 16:23 16224 Dec 07 07:17 16224 Dec 21 09:04 16224 Dec 29 02:27	24° ₹04'10 23° ₹53'12 19° ₹41'41 19° ₹56'14 17° ₹52'37 15° ₹08'22 13° ₹55'32 21° ₹04'58 0° ₹	3°30'43 0.55956 AU
min. Earth dist. 16223 Dec 16 08:01 8°♂23'19 0.54731 AU retrograde morning rise 16223 Dec 22 16:51 5°♂18'11 evening set direct 16223 Dec 27 10:22 4°♂29'52 inferior conj morning max el 16224 Jan 09 23:36 11°♂10'24 23°58'18 minimum elong asc. node 16224 Jan 21 06:36 25°♂35'41 min. Earth dist. 16224 Jan 23 22:22 0°≈ morning rise morning set 16224 Feb 03 09:25 20°≈30'56 direct 16224 Feb 07 18:00 0°ℋ morning max el superior conj 16224 Feb 10 04:55 5°ℋ21'58 1°29'56 asc. node	16224 Nov 12 14:24 16224 Nov 13 15:59 16224 Nov 15 13:27 16224 Nov 24 00:48 16224 Nov 23 16:09 16224 Nov 26 17:47 16224 Dec 01 16:23 16224 Dec 07 07:17 16224 Dec 21 09:04 16224 Dec 29 02:27 16225 Jan 07 03:47	24° 🗷 04'10 23° 🗷 53'12 19° 🗷 41'41 19° 🗷 56'14 17° 🗷 52'37 15° 🗷 08'22 13° 🗷 55'32 21° 🗷 04'58 0° ℧ 14° ℧ 01'43	3°30'43 0.55956 AU

superior conj	16225 Jan 24 14:20	19° ≈ 58'45	1°36'54		16226 Jan 07 00:01	0° ≈	
minimum elong	16225 Jan 24 15:01	20° ≈ 02'33	1°37'23				
max. Earth dist.	16225 Jan 25 23:35	23°≈02'51	1.31576 AU	superior conj	16226 Jan 09 01:35	4° ≈ 37'26	1°37'48
	16225 Jan 29 04:05	0° ∀		minimum elong	16226 Jan 09 01:13	4° ≈ 35'20	1°38'25
evening rise	16225 Jan 31 17:36	5° ¥ 25′29		max. Earth dist.	16226 Jan 09 06:36	5° ≈ 05'29	1.31042 AU
desc. node	16225 Feb 08 14:14	20°) 49′06		evening rise	16226 Jan 15 21:26	19° ≈ 39'27	
	16225 Feb 13 20:38	$0^{\circ}\mathbf{Y}$		C	16226 Jan 20 22:21	0°) €	
evening max el	16225 Mar 05 05:17	25° Ƴ 44'29	27°34'01	desc. node	16226 Jan 26 10:59	10° ¥ 18′22	
8	16225 Mar 10 09:21	0°8			16226 Feb 08 10:38	$0^{\circ}\Upsilon$	
retrograde	16225 Mar 19 04:51	3° 8 12'02		evening max el	16226 Feb 15 09:50	7° Ƴ 45'19	27°03'26
evening set	16225 Mar 26 00:11	0° 8 59'07		retrograde	16226 Mar 01 10:56	15° Y ′02'32	
Ü	16225 Mar 27 09:52	30°R Ƴ		evening set	16226 Mar 08 01:12	13° Ƴ 10'30	
min. Earth dist.	16225 Mar 29 18:29	28° Y ′02'20	0.61885 AU	min. Earth dist.	16226 Mar 12 00:08	10° Y 29′01	0.59618 AU
inferior conj	16225 Apr 01 20:19	25° Y 10'48	-1°01'37	inferior conj	16226 Mar 15 05:33	7° Υ ′51'54	
minimum elong	16225 Apr 01 22:27	25° ℃ 05'47	1°00'59	minimum elong	16226 Mar 15 11:10	7° Ƴ 40'27	
asc. node	16225 Apr 05 01:11	22° Y 23'13		asc. node	16226 Mar 22 22:31	3° Y 10'53	
morning rise	16225 Apr 08 23:55	20° Y 08'35		morning rise	16226 Mar 23 00:43	3° Y ′09'28	
direct	16225 Apr 11 05:14	19° Ƴ 46'36		direct	16226 Mar 25 00:48	2° Y 54'10	
morning max el	16225 Apr 17 23:11	23° Y 10'36	17°48'13	morning max el	16226 Apr 01 13:08	6° Ƴ 38'37	18°06'31
	16225 Apr 23 09:19	0°8		. 8	16226 Apr 16 10:56	0°8	
morning set	16225 May 03 18:46	17° 8 34'09		morning set	16226 Apr 17 03:19	1° 8 16'10	
desc. node	16225 May 07 15:29	24° 8 24'22		desc. node	16226 Apr 24 12:17	14° 8 53'15	
	16225 May 10 20:20	0°II					
				superior conj	16226 Apr 27 01:49	19° 8 29'43	-0°21'08
superior conj	16225 May 15 05:01	7° Ⅱ 27'38	-0°58'58	minimum elong	16226 Apr 27 00:04	19° 8 21'55	0°21'20
minimum elong	16225 May 14 23:37	7° Ⅱ 04'50	0°58'49	Č	16226 May 03 02:56	0°П	
max. Earth dist.	16225 May 22 04:37	18° ∏ 59′22	1.43814 AU	max. Earth dist.	16226 May 04 16:07	2° Ⅱ 36'36	1.41909 AU
	16225 May 29 03:23	0ം ತಾ		evening rise	16226 May 09 19:11	11° Ⅲ 01'12	
evening rise	16225 May 29 12:38	0°535'54		C	16226 May 22 03:15	0°ಅ	
•	16225 Jun 18 11:42	$0^{\circ}\Omega$		evening max el	16226 Jun 12 05:55	27°\$28'06	22°40'59
evening max el	16225 Jun 29 12:59	13° Ω 33'24	21°22'16	•	16226 Jun 15 00:30	$0^{\circ}\Omega$	
asc. node	16225 Jul 01 23:41	15° Ω 47'04		asc. node	16226 Jun 18 20:38	2° Ω 30′25	
retrograde	16225 Jul 08 08:51	18° Ω 40'31		retrograde	16226 Jun 22 05:58	3° Ω 19'41	
evening set	16225 Jul 12 20:02	16° Ω 51′06		evening set	16226 Jun 27 04:41	1° Ω 14′22	
inferior conj	16225 Jul 18 01:29	10° £ 38′01	3°08'22		16226 Jun 28 11:30	30° ₹ 5	
minimum elong	16225 Jul 18 01:26	10° Ω 38'11	3°07'48	inferior conj	16226 Jul 02 11:30	24° 9 52'34	3°02'22
min. Earth dist.	16225 Jul 18 08:34	10° Ω 13′20	0.68973 AU	minimum elong	16226 Jul 02 10:33	24° © 55'55	3°01'36
morning rise	16225 Jul 23 06:36	4° Ω 18'47		min. Earth dist.	16226 Jul 02 05:30	25° © 13'27	0.69159 AU
direct	16225 Jul 28 07:29	2° Ω 08'34		morning rise	16226 Jul 07 16:16	18° 5 40'46	
desc. node	16225 Aug 03 14:24	4° Ω 44'30		direct	16226 Jul 12 05:01	16° 5 548'36	
morning max el	16225 Aug 07 10:35	8° Ω 08'54	22°52'15	morning max el	16226 Jul 21 01:44	21° © 57'00	21°26'48
	16225 Aug 24 12:53	0° т у		desc. node	16226 Jul 21 11:41	22° 5 22'09	
morning set	16225 Sep 10 11:42	26° Mp 08'18			16226 Jul 27 23:40	0 $^{\circ}\Omega$	
	16225 Sep 12 19:36	0 ்⊽			16226 Aug 17 18:51	0° ™	
max. Earth dist.	16225 Sep 15 00:11	3° ≏ 41'59	1.40366 AU	morning set	16226 Aug 21 13:37	5° m 53'39	
				max. Earth dist.	16226 Aug 28 04:57	16° Mp 32'52	1.42599 AU
superior conj	16225 Sep 22 21:11	17° ≏ 33'53					
minimum elong	16225 Sep 23 00:37	17° Ω 49'32	0°43'28	superior conj	16226 Sep 04 16:10	29° m 04'10	
asc. node	16225 Sep 28 00:42	27° Ω 06'11		minimum elong	16226 Sep 04 22:47	29° m 32'37	1°20'01
	16225 Sep 29 13:29	0°M			16226 Sep 05 05:08	0∘ ত	
evening rise	16225 Oct 02 15:33	5°M52'19		asc. node	16226 Sep 14 21:24	17° ≏ 10'03	
	16225 Oct 17 02:21	0° ∡ 7		evening rise	16226 Sep 15 22:00	19° ≏ 01'26	
evening max el	16225 Oct 18 14:07	1° ∡ ³37'07	18°28'14		16226 Sep 22 01:14	0°M	
retrograde	16225 Oct 26 10:10	5° ₹35'45		evening max el	16226 Oct 02 00:35	14°M25'47	18°05'34
evening set	16225 Oct 28 09:34	5° ₹21'20		retrograde	16226 Oct 08 22:47	17°M59'04	
desc. node	16225 Oct 30 11:36	4° 🗷 37'09	1050150	evening set	16226 Oct 11 04:38	17°M36'59	
inferior conj	16225 Nov 05 05:11	0°× 7 49'02		desc. node	16226 Oct 17 08:52	13°M32'57	0017107
minimum elong	16225 Nov 05 00:49	0° ∡ 757'36	1°48'31	inferior conj	16226 Oct 18 06:48	12°M43'29	
min Fouth diet	16225 Nov 06 06:00	30°RM 20°M 10'26	0.57940 ATT	minimum elong	16226 Oct 18 06:13	12°M44'48	0°16'46
min. Earth dist.	16225 Nov 08 10:19	28°M18'26	0.57840 AU	min. Earth dist.	16226 Oct 21 11:32	9°M49'38	0.60067 AU
morning rise	16225 Nov 12 12:38	25°M38'53 23°M58'54		morning rise direct	16226 Oct 25 04:35	7°ጤ00'54 4°ጤ56'05	
direct	16225 Nov 18 18:55 16225 Dec 01 09:57	23°11638'34 0° √ 1		morning max el	16226 Oct 31 19:16 16226 Nov 15 01:16	12°M43'51	27°50'45
morning max el	16225 Dec 01 09:57 16225 Dec 03 01:05	1° ∡ ′30′38	27°04'59	morning max er	16226 Nov 15 01:16 16226 Nov 28 18:38	0° √	41 JU43
morning max ci	16225 Dec 03 01:03 16225 Dec 23 08:42	0°る	41 UT J7	asc. node	16226 Nov 28 18.38 16226 Dec 11 21:59	0 x . 22° x 32'58	
asc. node	16225 Dec 25 00:54	3° ප 03'58		350. 11500	16226 Dec 15 15:40	0°る	
morning set	16226 Jan 02 06:10	19° ප 35'10		morning set	16226 Dec 17 11:22	3° 云 47'18	

Family diag	16226 Dec 22, 12.54	170705112	1 2105(AII		1/227 D 01 10-1/	179.72.0142	
max. Earth dist.	16226 Dec 23 13:54	1/°00513	1.31056 AU	morning set max. Earth dist.	16227 Dec 01 10:16 16227 Dec 06 17:31	17° ₹ 38'43 28° ₹ 51'54	1.31632 AU
superior conj	16226 Dec 24 12:48	19° る 13'03	1°32'40	max. Larur dist.	16227 Dec 07 06:01	0°る	1.51052 AO
minimum elong	16226 Dec 24 11:27	19° る 05'30	1°33'16		1022, 200 0, 00.01	. .	
Č	16226 Dec 29 08:57	0° ≈		superior conj	16227 Dec 08 22:00	3° ⋜ 39'19	1°21'27
evening rise	16226 Dec 31 05:29	4° ≈ 02'53		minimum elong	16227 Dec 08 19:55	3° る 27'50	1°21'56
desc. node	16227 Jan 13 07:47	29° ≈ 14'42		evening rise	16227 Dec 15 15:45	18° る 29'59	
	16227 Jan 13 18:49	0°) €			16227 Dec 21 04:28	0° ≈	
evening max el	16227 Jan 28 06:45	18°) ₹ 54'11	25°58'17	desc. node	16227 Dec 31 04:39	17° ≈ 25'14	
retrograde	16227 Feb 11 05:39	25° ¥ 57'51		evening max el	16228 Jan 09 19:22	29° ≈ 13'45	24°26'03
evening set	16227 Feb 17 07:18	24°) €31'45			16228 Jan 10 15:16	0°) €	
min. Earth dist.	16227 Feb 21 19:50	21°) 53'17	0.57468 AU	retrograde	16228 Jan 23 11:05	6° ∺ 01'50	
inferior conj	16227 Feb 24 19:27	19°) 47'40		evening set	16228 Jan 28 15:10	5°) €03'13	
minimum elong	16227 Feb 25 04:17	19°) (32′07	3°55'39	min. Earth dist.	16228 Feb 03 07:10	2° ★ 11'21	0.55704 AU
morning rise	16227 Mar 05 04:23	15°) €26'37		inferior conj	16228 Feb 05 11:58	0°) € 50'19	
direct	16227 Mar 07 03:45	15°) 14'13 15°) 38'07		minimum elong	16228 Feb 05 20:39	0°) (36′58	5°16'09
asc. node morning max el	16227 Mar 09 19:51 16227 Mar 15 19:42	13° X 3807 19° X 29'51	18°45'17		16228 Feb 06 21:03 16228 Feb 14 04:12	30°R≈ 26°≈49'33	
morning max er	16227 Mar 13 19.42 16227 Mar 23 14:15	19 π 2931	18 43 17	morning rise direct	16228 Feb 14 04.12 16228 Feb 16 10:56	26°≈35'48	
morning set	16227 Mar 31 23:31	0 1 15° Υ 28'46		asc. node	16228 Feb 16 10:36 16228 Feb 24 17:12	20 ≈5548 29°≈51'13	
morning set	16227 Apr 08 11:38	0°8		asc. node	16228 Feb 24 21:35	0°) €	
	10227 Hp1 00 11.50	ů O		morning max el	16228 Feb 26 14:35	1° ¥ 31'33	19°46'38
superior conj	16227 Apr 09 18:08	2° 8 24'02	0°13'38	morning set	16228 Mar 15 03:26	29° ¥ 59'29	15 .050
minimum elong	16227 Apr 09 19:02	2° 8 28'13	0°13'10		16228 Mar 15 03:32	0°Υ	
behind sun begin	16227 Apr 09 15:07	2° 8 09'51					
behind sun end	16227 Apr 09 22:56	2° 8 46'33		superior conj	16228 Mar 23 01:29	15° Ƴ 57'40	0°43'04
desc. node	16227 Apr 11 09:02	5° 8 25'28		minimum elong	16228 Mar 23 03:43	16° Y ′08'42	0°42'34
max. Earth dist.	16227 Apr 16 23:53	15° 8 33'28	1.39691 AU	desc. node	16228 Mar 28 05:44	25° Y 56'39	
evening rise	16227 Apr 20 22:55	22° 8 22'13		max. Earth dist.	16228 Mar 29 06:14	27° Y ′50'59	1.37394 AU
	16227 Apr 25 13:53	Π $^{\circ}0$			16228 Mar 30 10:14	0° 8	
	16227 May 16 01:42	0		evening rise	16228 Apr 01 22:48	4° 8 33'18	
evening max el	16227 May 25 20:11	11° © 23'49	24°02'34		16228 Apr 17 13:48	Π °0	
asc. node	16227 Jun 05 17:38	17° © 55'40		evening max el	16228 May 07 09:34	25° Ⅱ 18'16	25°20'18
retrograde	16227 Jun 06 00:02	17°955'58			16228 May 13 00:15	0°©	
evening set	16227 Jun 11 10:28	15°937'14	0.600.50 4.77	retrograde	16228 May 19 14:04	2°522'27	
min. Earth dist.	16227 Jun 16 01:45	10°©13'55	0.68853 AU	asc. node	16228 May 22 14:44	1° © 44'43 29° Ⅱ 54'06	
inferior conj	16227 Jun 16 20:48 16227 Jun 16 19:06	9° © 09'12 9° © 15'01	2°45'55 2°44'54	evening set	16228 May 25 11:44 16228 May 25 08:57	29°Д3406 30°RД	
minimum elong morning rise	16227 Jun 16 19.06 16227 Jun 22 03:46	3°506'20	2 44 34	min. Earth dist.	16228 May 29 19:15	30 KII 25°II07'49	0.68057 AU
direct	16227 Jun 26 04:40	1°533'48		inferior conj	16228 May 31 03:25	23° П 23'26	
morning max el	16227 Jul 03 23:04	5°955'52	20°11'30	minimum elong	16228 May 31 01:17	23° II 30'24	
desc. node	16227 Jul 08 08:54	10°953'44		morning rise	16228 Jun 05 15:14	17° ∏ 30'40	
	16227 Jul 22 00:45	$0^{\circ}\Omega$		direct	16228 Jun 09 04:50	16° Ⅱ 17'39	
morning set	16227 Jul 31 21:25	14° Ω 54'59		morning max el	16228 Jun 16 03:42	20° Ⅱ 04'46	19°10'20
max. Earth dist.	16227 Aug 10 16:52	0° Mp 15'11	1.44396 AU	desc. node	16228 Jun 24 06:01	0°504'50	
	16227 Aug 10 13:03	0° ™			16228 Jun 24 04:39	0 \circ \odot	
				greatest brilliancy	16228 Jun 28 23:38	6° © 57'38	-0.7m
superior conj	16227 Aug 16 11:57	9°m/35'56		morning set	16228 Jul 10 03:18	23° 9 56'36	
minimum elong	16227 Aug 16 19:47	10°Mp07'56	1°52'04		16228 Jul 14 01:30	0 ° Ω	
	16227 Aug 28 15:27	0∘ 亚		max. Earth dist.	16228 Jul 23 10:02	14° {\2 32'56	1.45565 AU
evening rise	16227 Aug 29 11:34	1° Ω 26'29			16000 1 1 06 00 47	100 01 452	2011125
asc. node	16227 Sep 01 18:05	7° Ω 03'52	10002100	superior conj	16228 Jul 26 09:47	19° Ω 14'53	
evening max el	16227 Sep 15 14:56 16227 Sep 18 11:54	27° £ 42'40 0° I L	18°02'08	minimum elong	16228 Jul 26 13:48 16228 Aug 02 03:59	19° Ω 30'43 0° m	2-11-59
retrograde	16227 Sep 18 11:34 16227 Sep 22 01:45	1°M04'18		evening rise	16228 Aug 10 03:04	12° Mp 54'57	
evening set	16227 Sep 22 01:43	0°M30'56		asc. node	16228 Aug 18 14:47	26° Mp 43'13	
evening sec	16227 Sep 25 16:17	30° ₽ Ω		use. Houe	16228 Aug 20 16:56	0° ت	
inferior conj	16227 Oct 01 02:20	25° ≏ 18'29	0°57'36	evening max el	16228 Aug 29 05:36	11° Ω 19'12	18°16'54
minimum elong	16227 Oct 01 03:55	25° ≏ 14'24	0°57'15	retrograde	16228 Sep 04 14:38	14° ≏ 42'24	
min. Earth dist.	16227 Oct 03 22:43	22° ≏ 21'37	0.62354 AU	evening set	16228 Sep 07 13:17	13° ≏ 54'53	
desc. node	16227 Oct 04 06:12	92° 2 03'09		inferior conj	16228 Sep 13 11:47	8° ≏ 26'12	1°53'20
morning rise	16227 Oct 07 13:42	19° ≙ 12'09		minimum elong	16228 Sep 13 14:05	8° ₽ 19'32	1°52'40
direct	16227 Oct 14 06:09	16° ≏ 48'28		min. Earth dist.	16228 Sep 15 19:55	5° ≙ 44'17	0.64479 AU
morning max el	16227 Oct 28 08:01		27°57'06	morning rise	16228 Sep 19 13:15	2° ≏ 05'43	
	16227 Nov 02 03:01	0°M		desc. node	16228 Sep 20 03:32	1° Ω 38'35	
,	16227 Nov 22 05:05	0° ⊀̄¹		T' d	16228 Sep 23 05:15	30°₹ ™	
asc. node	16227 Nov 28 18:57	12° ∡ 20′25		direct	16228 Sep 26 02:14	29° Mp 31'00	

morning max el	16228 Sep 29 02:46 16228 Oct 09 18:34		27°27'22		16229 Sep 30 08:50 16229 Oct 20 08:11	0° Մ	
	16228 Oct 27 05:01 16228 Nov 13 11:19	0°M 0° ∡ 1		morning set max. Earth dist.	16229 Oct 28 02:40 16229 Nov 01 00:05	13°M56'24 21°M26'22	1.34460 AU
morning set	16228 Nov 14 00:25	1°×704'18		asc. node	16229 Nov 01 12:41	22°M28'39 0° ∡ 7	
asc. node max. Earth dist.	16228 Nov 14 15:51 16228 Nov 18 13:44	2° х ⁷ 20'43 10° х ⁷ 18'52	1.32774 AU		16229 Nov 05 05:58	0-X	
max. Earth dist.	102201107 10 13.11	10 % 1002	1.32771110	superior conj	16229 Nov 06 01:53	1° ∡ ¹42'52	0°40'33
superior conj	16228 Nov 22 03:10	17° ∡ 751′24	1°04'05	minimum elong	16229 Nov 05 23:53	1° ∡ ³32'31	0°40'46
minimum elong	16228 Nov 22 00:47	17° ∡ ³38'40	1°04'23	evening rise	16229 Nov 13 11:46	17° ∡ 18′22	
	16228 Nov 27 17:38	0°る		. 1	16229 Nov 19 18:52	0°る	21005122
evening rise	16228 Nov 29 02:29 16228 Dec 13 16:42	2°る56'50 0°≈		evening max el desc. node	16229 Dec 02 20:52 16229 Dec 03 22:34	19°る18'21 20°る18'59	21°05'33
desc. node	16228 Dec 17 01:34	0 ∞ 4°≈33'47		retrograde	16229 Dec 14 13:49	25°る05'58	
evening max el	16228 Dec 21 04:47	9° ≈ 08'56	22°42'30	evening set	16229 Dec 17 06:55	24° පි 48'40	
retrograde	16229 Jan 03 04:01	15° ≈ 33'52		inferior conj	16229 Dec 26 00:55	20°る57'57	-5°43'32
evening set	16229 Jan 07 02:14	15° ≈ 00'14		minimum elong	16229 Dec 25 17:57	21° ට 07'50	5°41'52
min. Earth dist.	16229 Jan 14 13:41	11° ≈ 35′05	0.54614 AU	min. Earth dist.	16229 Dec 26 19:02	20° පි 32'16	0.54415 AU
inferior conj	16229 Jan 15 10:18	11°≈05'56		morning rise	16230 Jan 03 05:07	17°る06'08	
minimum elong morning rise	16229 Jan 15 12:21 16229 Jan 23 23:38	11°≈03'02 7°≈17'28	5~59.51	direct morning max el	16230 Jan 07 08:02 16230 Jan 20 09:15	16°る29'29 22°る51'22	22054143
direct	16229 Jan 27 00:38	6°≈56'17		morning max ci	16230 Jan 26 13:58	0°≈	22 3443
morning max el	16229 Feb 07 18:45	12°≈36'51	21°11'09	asc. node	16230 Jan 28 11:45	2°≈40'52	
asc. node	16229 Feb 10 14:30	15° ≈ 38'19		morning set	16230 Feb 11 23:33	29° ≈ 24'08	
	16229 Feb 20 02:00	0°) €			16230 Feb 12 06:17	0°) €	
morning set	16229 Feb 27 12:12	14°) (40′06					
	16220 M 06 10 55	2001/50/50	1007117	superior conj	16230 Feb 18 22:12	14° H 21'51	
superior conj minimum elong	16229 Mar 06 19:55 16229 Mar 06 22:27	29° ¥ 59'59 0° Y 13'02	1°06'17	minimum elong max. Earth dist.	16230 Feb 19 00:19 16230 Feb 22 07:46	14° ¥ 33'07 21° ¥ 32'47	1°23'08 1.33466 AU
minimum ciong	16229 Mar 06 19:55	0° Υ	1 00 00	max. Lartii dist.	16230 Feb 26 11:45	21 γ (3247)	1.33400 AO
max. Earth dist.	16229 Mar 11 15:30	9° Υ 43'48	1.35258 AU	evening rise	16230 Feb 26 22:18	0° Υ 51'58	
desc. node	16229 Mar 15 02:23	16° Ƴ 23'21		desc. node	16230 Mar 01 23:03	6° Ƴ 41'37	
evening rise	16229 Mar 15 15:45	17° Ƴ 26′12			16230 Mar 15 16:26	9° 8	
	16229 Mar 22 16:15	0°B		evening max el	16230 Apr 02 12:44	22° 8 41'44	27°14'27
	16229 Apr 11 20:47	0°II	26026147		16230 Apr 13 22:36	0°II	
evening max el retrograde	16229 Apr 19 23:07 16229 May 02 23:06	9° Ⅱ 06'50 16° Ⅱ 31'18	26°26'47	retrograde	16230 Apr 16 02:10 16230 Apr 18 03:59	0°Ⅱ14'11 30°Ŗ႘	
evening set	16229 May 09 06:41	13° I I58'39		evening set	16230 Apr 18 03:39	27° 8 43'44	
asc. node	16229 May 09 11:53	13° Ⅱ 47'51		asc. node	16230 Apr 26 09:05	24° 8 18'43	
min. Earth dist.	16229 May 13 08:00	9° Ⅱ 47'43	0.66802 AU	min. Earth dist.	16230 Apr 26 14:05	24° 8 05'18	0.65138 AU
inferior conj	16229 May 15 05:14	7° Ⅱ 30′21	1°39'48	inferior conj	16230 Apr 28 23:52	21° 8 24'34	0°48'06
minimum elong	16229 May 15 03:10	7° Ⅱ 36'40	1°38'31	minimum elong	16230 Apr 28 22:36	21° 8 28'05	0°47'08
morning rise	16229 May 21 00:40	1° Ⅱ 48'56		morning rise	16230 May 05 05:43	15° 8 56'12	
direct morning max el	16229 May 24 03:49 16229 May 30 14:52	0° Ⅲ 53'52 4° Ⅲ 18'57	18°25'13	direct morning max el	16230 May 07 23:26 16230 May 14 06:39	15° 8 16'28 18° 8 31'58	17°57'02
desc. node	16229 Jun 11 03:03	19° Ⅱ 44'45	10 23 13	morning max or	16230 May 22 22:21	0°II	1, 3, 02
	16229 Jun 17 16:18	0ಂತಾ		desc. node	16230 May 28 24:00	9° Ⅱ 45'49	
morning set	16229 Jun 20 02:21	3°549'18		morning set	16230 Jun 01 04:23	14° Ⅱ 59'46	
					16230 Jun 10 09:25	0ං ව	
superior conj	16229 Jul 05 19:25	28°927'58		:	16220 Iva 15 00:20	70650142	1953155
minimum elong max. Earth dist.	16229 Jul 05 15:41 16229 Jul 06 05:43	28°508'06	2°12'30 1.46010 AU	superior conj minimum elong	16230 Jun 15 09:29 16230 Jun 15 01:04	7° 9 58'43 7° 9 25'26	-1°52′55 1°52′56
max. Latur dist.	16229 Jul 06 19:02	0°Ω	1.40010 AO	max. Earth dist.	16230 Jun 19 01:52	13°946'40	1.45709 AU
evening rise	16229 Jul 21 17:20	23° Ω 19'35			16230 Jun 29 13:01	0°N	
J	16229 Jul 25 23:23	0° m)		evening rise	16230 Jul 01 10:43	2° Ω 55'19	
greatest brilliancy	16229 Jul 30 19:40	7° m ,32'49	-0.8m	greatest brilliancy	16230 Jul 15 06:51	23° Ω 47'53	-0.6m
asc. node	16229 Aug 05 11:31	16° Mp 01'39			16230 Jul 19 15:25	0° m)	
evening max el	16229 Aug 12 17:36	25° Mp 07'08	18°49'05	asc. node	16230 Jul 23 08:18	4° m 51'46	10027120
retrograde	16229 Aug 19 09:32	28° Mp 44'44		evening max el	16230 Jul 27 00:49	9° Mp 00'49 13° Mp 05'03	19°37'38
evening set inferior conj	16229 Aug 22 17:35 16229 Aug 28 07:23	27° Mp 40'49 21° Mp 58'03	2°31'52	retrograde evening set	16230 Aug 03 07:37 16230 Aug 07 01:45	13° mp 43'26	
minimum elong	16229 Aug 28 09:30	21° m ₂ 50'05	2°31'14	inferior conj	16230 Aug 12 10:04	5° Mp 47'58	2°55'43
min. Earth dist.	16229 Aug 30 01:48	19° m 45'00	0.66295 AU	minimum elong	16230 Aug 12 11:29	5° m) 43'15	2°55'11
morning rise	16229 Sep 03 00:26	15° m 31'38		min. Earth dist.	16230 Aug 13 14:30	4° M 13′20	0.67706 AU
desc. node	16229 Sep 07 00:53	13° m 13'26			16230 Aug 17 04:15	30°R Ω	
direct	16229 Sep 09 06:01	12° Mp 54'30	26020157	morning rise	16230 Aug 17 20:42	29° Ω 21'38	
morning max el	16229 Sep 22 06:06	20° Mp 36'54	26°28'57	direct	16230 Aug 23 16:17	26° Ω 50'11	

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	16232 Jul 14 03:35	30° ₹©		min. Earth dist.	16233 Jun 25 01:09	18° © 57'45	0.69081 AU
morning rise	16232 Jul 16 07:30	27° © 45'31		inferior conj	16233 Jun 25 12:46	18°917'36	2°56'41
direct	16232 Jul 21 03:11	25°\$42'55		minimum elong	16233 Jun 25 11:27	18° © 22'07	
desc. node	16232 Jul 28 16:51	29° © 27'13		morning rise	16233 Jun 30 18:09	12°909'26	
	16232 Jul 29 07:30	0°Ω		direct	16233 Jul 05 01:40	10°925'46	
morning max el	16232 Jul 30 17:06	1° Ω 20'39	22°15'05	morning max el	16233 Jul 13 10:45	15°9513'48	20°53'18
Ü	16232 Aug 21 08:50	0° m)		desc. node	16233 Jul 15 14:05	17° © 29'53	
morning set	16232 Sep 01 19:36	17° mp 45'13			16233 Jul 25 06:43	$0^{\circ}\Omega$	
max. Earth dist.	16232 Sep 07 02:32	26° m 25'55	1.41351 AU	morning set	16233 Aug 12 12:34	27° Ω 08'43	
	16232 Sep 09 05:20	0∘ ⊽		C	16233 Aug 14 08:29	0° m)	
	1			max. Earth dist.	16233 Aug 20 10:06	9° m) 38'58	1.43422 AU
superior conj	16232 Sep 14 22:27	9° Ω 55'34	-0°59'56		Č	7	
minimum elong	16232 Sep 15 03:18	10° £ 17'06	0°59'07	superior conj	16233 Aug 27 07:47	21° mp 01'01	-1°35'15
asc. node	16232 Sep 22 02:57	22° ≏ 59'58		minimum elong	16233 Aug 27 15:20	21°m/32'49	1°34'34
evening rise	16232 Sep 25 06:57	28° ≏ 53'51			16233 Sep 01 14:08	0° ت	
	16232 Sep 25 21:09	0° M .		evening rise	16233 Sep 08 06:55	11° ≏ 45'59	
evening max el	16232 Oct 11 04:44	24°M21'04	18°16'06	asc. node	16233 Sep 08 23:39	13° ഫ 00'10	
retrograde	16232 Oct 18 14:21	28°M07'43			16233 Sep 18 23:48	0° M .	
evening set	16232 Oct 20 16:04	27°M50'35		evening max el	16233 Sep 24 17:18	7° M 22'42	18°01'50
desc. node	16232 Oct 24 14:04	25°M55'50		retrograde	16233 Oct 01 09:37	10° M 49'36	
inferior conj	16232 Oct 28 04:10	23°M08'49	-1°09'16	evening set	16233 Oct 03 18:38	10°ML23'17	
minimum elong	16232 Oct 28 01:35	23°M14'15	1°07'42	inferior conj	16233 Oct 10 13:54	5° M 21'37	0°16'45
min. Earth dist.	16232 Oct 31 10:13	20°M26'00	0.58757 AU	minimum elong	16233 Oct 10 14:26	5° M 20′20	0°16'54
morning rise	16232 Nov 04 07:38	17° M 43'44		desc. node	16233 Oct 11 11:20	4° M 29′28	
direct	16232 Nov 10 18:03	15°M53'00		min. Earth dist.	16233 Oct 13 15:52	2°M23'46	0.61043 AU
morning max el	16232 Nov 25 01:01	23°M32'24	27°29'18		16233 Oct 16 12:35	30° ₹ Ω	
C	16232 Nov 30 21:05	0° ⊼		morning rise	16233 Oct 17 07:13	29° ₽ 27'26	
asc. node	16232 Dec 19 03:16	28° ₹ 39'09		direct	16233 Oct 23 23:20	27° ≙ 13'28	
	16232 Dec 19 20:12	8°0			16233 Oct 31 23:51	0° M .	
morning set	16232 Dec 26 06:08	13° る 01'04		morning max el	16233 Nov 07 04:24	5°ML07'11	27°58'09
C				C	16233 Nov 25 19:44	0° ∡ ¹	
superior conj	16233 Jan 02 03:35	28° る 11'37	1°36'21	asc. node	16233 Dec 06 00:19	18° ∡ 16'42	
minimum elong	16233 Jan 02 02:47	28° る 07'05	1°36'59	morning set	16233 Dec 10 08:56	27° ∡ °05′01	
max. Earth dist.	16233 Jan 01 21:01	27° ප 34'51	1.30984 AU	-	16233 Dec 11 18:12	0°రె	
	16233 Jan 02 22:55	0° ≈		max. Earth dist.	16233 Dec 16 03:03	9° ට 29'01	1.31229 AU
evening rise	16233 Jan 08 21:36	13° ≈ 07'08					
	16233 Jan 17 07:29	0° ∀		superior conj	16233 Dec 17 14:10	12° る 43'48	1°28'40
desc. node	16233 Jan 20 13:16	5°) 47′12		minimum elong	16233 Dec 17 12:28	12° る 34'21	1°29'13
	16233 Feb 07 11:29	$0^{\circ}\mathbf{Y}$		evening rise	16233 Dec 24 06:47	27° る 32'13	
evening max el	16233 Feb 07 10:14	29° ¥ 57′02	26°39'30		16233 Dec 25 10:17	0° ≈	
retrograde	16233 Feb 21 10:36	7° Y ′09'04		desc. node	16234 Jan 07 10:05	24° ≈ 25'37	
evening set	16233 Feb 27 20:44	5° Y 27'12			16234 Jan 11 03:01	0° ∀	
min. Earth dist.	16233 Mar 03 23:54	2° Y 49'02	0.58679 AU	evening max el	16234 Jan 20 03:13	10°) 42′42	25°21'31
inferior conj	16233 Mar 07 04:27	0° Y 23'09	-3°06'21	retrograde	16234 Feb 03 00:17	17° ¥ 41′00	
minimum elong	16233 Mar 07 11:36	0° Y 09'29	3°03'40	evening set	16234 Feb 08 17:42	16° ∺ 26'39	
	16233 Mar 07 16:35	30°₽)		min. Earth dist.	16234 Feb 13 15:53	13° ¥ 44′29	0.56649 AU
morning rise	16233 Mar 15 06:00	25° ¥ 50′07		inferior conj	16234 Feb 16 09:14	11° ¥ 56′22	-4°35'20
direct	16233 Mar 17 05:03	25°) 36′32		minimum elong	16234 Feb 16 18:40	11° ∺ 40'44	4°32'24
asc. node	16233 Mar 17 00:58	25°) ₹36′38		morning rise	16234 Feb 24 22:25	7°) 44'32	
morning max el	16233 Mar 25 03:57	29°) 32'34	18°20'27	direct	16234 Feb 26 23:27	7°) 32′18	
	16233 Mar 25 14:52	$0^{\circ}\mathbf{Y}$		asc. node	16234 Mar 03 22:18	8° ¥ 49'06	
morning set	16233 Apr 09 21:37	24° Y 36'39		morning max el	16234 Mar 08 06:07	12° ₩ 04'23	19°08'33
C							
	16233 Apr 12 17:43	0°8			16234 Mar 20 06:31	0° Y	
desc. node	16233 Apr 12 17:43			morning set		0° ' 8° '' 57'47	
desc. node	-	0° ප 10° ප 57'36		morning set	16234 Mar 20 06:31		
desc. node superior conj	16233 Apr 12 17:43		-0°05'52	morning set	16234 Mar 20 06:31		0°26'51
	16233 Apr 12 17:43 16233 Apr 18 14:31	10° 8 57'36			16234 Mar 20 06:31 16234 Mar 24 21:28	8° Y 57'47	0°26'51 0°26'19
superior conj	16233 Apr 12 17:43 16233 Apr 18 14:31 16233 Apr 19 07:20 16233 Apr 19 06:51	10°857'36		superior conj	16234 Mar 20 06:31 16234 Mar 24 21:28 16234 Apr 02 06:32 16234 Apr 02 08:09	8° Υ 57'47 25° Υ 26'42	
superior conj minimum elong	16233 Apr 12 17:43 16233 Apr 18 14:31 16233 Apr 19 07:20 16233 Apr 19 06:51 16233 Apr 19 00:02	10° 8 57'36 12° 8 14'21 12° 8 12'12 11° 8 41'07		superior conj	16234 Mar 20 06:31 16234 Mar 24 21:28 16234 Apr 02 06:32 16234 Apr 02 08:09 16234 Apr 04 16:03	8°Υ'57'47 25°Υ'26'42 25°Υ'34'26	
superior conj minimum elong behind sun begin	16233 Apr 12 17:43 16233 Apr 18 14:31 16233 Apr 19 07:20 16233 Apr 19 06:51 16233 Apr 19 00:02 16233 Apr 19 13:40	10° 8 57'36 12° 8 14'21 12° 8 12'12		superior conj minimum elong	16234 Mar 20 06:31 16234 Mar 24 21:28 16234 Apr 02 06:32 16234 Apr 02 08:09 16234 Apr 04 16:03 16234 Apr 05 11:14	8°Y57'47 25°Y26'42 25°Y34'26 0°8 1°829'45	
superior conj minimum elong behind sun begin behind sun end	16233 Apr 12 17:43 16233 Apr 18 14:31 16233 Apr 19 07:20 16233 Apr 19 06:51 16233 Apr 19 00:02 16233 Apr 19 13:40 16233 Apr 26 20:44	10°\delta57'36 12°\delta14'21 12°\delta12'12 11°\delta41'07 12°\delta43'12 25°\delta33'56	0°06'12	superior conj minimum elong desc. node max. Earth dist.	16234 Mar 20 06:31 16234 Mar 24 21:28 16234 Apr 02 06:32 16234 Apr 02 08:09 16234 Apr 04 16:03 16234 Apr 05 11:14 16234 Apr 09 02:50	8°Y57'47 25°Y26'42 25°Y34'26 0°8 1°829'45 8°810'34	0°26'19
superior conj minimum elong behind sun begin behind sun end max. Earth dist.	16233 Apr 12 17:43 16233 Apr 18 14:31 16233 Apr 19 07:20 16233 Apr 19 06:51 16233 Apr 19 00:02 16233 Apr 19 13:40 16233 Apr 26 20:44 16233 Apr 29 11:53	10°\delta57'36 12°\delta14'21 12°\delta12'12 11°\delta41'07 12°\delta43'12 25°\delta33'56 0°\delta	0°06'12	superior conj minimum elong desc. node	16234 Mar 20 06:31 16234 Mar 24 21:28 16234 Apr 02 06:32 16234 Apr 02 08:09 16234 Apr 04 16:03 16234 Apr 05 11:14 16234 Apr 09 02:50 16234 Apr 12 21:10	8°Y57'47 25°Y26'42 25°Y34'26 0°8 1°829'45 8°810'34 14°847'55	0°26'19
superior conj minimum elong behind sun begin behind sun end	16233 Apr 12 17:43 16233 Apr 18 14:31 16233 Apr 19 07:20 16233 Apr 19 06:51 16233 Apr 19 00:02 16233 Apr 19 13:40 16233 Apr 26 20:44 16233 Apr 29 11:53 16233 May 01 08:34	10°\delta57'36 12°\delta14'21 12°\delta12'12 11°\delta41'07 12°\delta43'12 25°\delta33'56 0°\pi 3°\pi04'36	0°06'12	superior conj minimum elong desc. node max. Earth dist.	16234 Mar 20 06:31 16234 Mar 24 21:28 16234 Apr 02 06:32 16234 Apr 02 08:09 16234 Apr 04 16:03 16234 Apr 05 11:14 16234 Apr 09 02:50 16234 Apr 12 21:10 16234 Apr 22 03:00	8°Y57'47 25°Y26'42 25°Y34'26 0°8 1°829'45 8°810'34 14°847'55 0°II	0°26'19
superior conj minimum elong behind sun begin behind sun end max. Earth dist. evening rise	16233 Apr 12 17:43 16233 Apr 18 14:31 16233 Apr 19 07:20 16233 Apr 19 06:51 16233 Apr 19 00:02 16233 Apr 19 13:40 16233 Apr 26 20:44 16233 Apr 29 11:53 16233 May 01 08:34 16233 May 18 23:43	10°♥57'36 12°♥14'21 12°♥12'12 11°♥41'07 12°♥43'12 25°♥33'56 0°Ⅲ 3°Ⅲ04'36 0°ℱ	0°06'12 1.40985 AU	superior conj minimum elong desc. node max. Earth dist. evening rise	16234 Mar 20 06:31 16234 Mar 24 21:28 16234 Apr 02 06:32 16234 Apr 02 08:09 16234 Apr 04 16:03 16234 Apr 05 11:14 16234 Apr 09 02:50 16234 Apr 12 21:10 16234 Apr 22 03:00 16234 May 13 18:37	8°Y57'47 25°Y26'42 25°Y34'26 0°8 1°829'45 8°810'34 14°847'55 0°II 0°©	0°26'19 1.38703 AU
superior conj minimum elong behind sun begin behind sun end max. Earth dist. evening rise	16233 Apr 12 17:43 16233 Apr 18 14:31 16233 Apr 19 07:20 16233 Apr 19 06:51 16233 Apr 19 00:02 16233 Apr 19 13:40 16233 Apr 26 20:44 16233 Apr 29 11:53 16233 May 01 08:34 16233 May 18 23:43 16233 Jun 04 12:46	10°857'36 12°814'21 12°812'12 11°841'07 12°843'12 25°833'56 0°II 3°II04'36 0°S 20°S43'56	0°06'12 1.40985 AU	superior conj minimum elong desc. node max. Earth dist. evening rise	16234 Mar 20 06:31 16234 Mar 24 21:28 16234 Apr 02 06:32 16234 Apr 02 08:09 16234 Apr 04 16:03 16234 Apr 05 11:14 16234 Apr 09 02:50 16234 Apr 12 21:10 16234 Apr 22 03:00 16234 May 13 18:37 16234 May 18 02:23	8°Y57'47 25°Y26'42 25°Y34'26 0°8 1°829'45 8°810'34 14°847'55 0°II 0°\$ 4°\$39'14	0°26'19 1.38703 AU
superior conj minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node	16233 Apr 12 17:43 16233 Apr 18 14:31 16233 Apr 19 07:20 16233 Apr 19 06:51 16233 Apr 19 00:02 16233 Apr 19 13:40 16233 Apr 26 20:44 16233 Apr 29 11:53 16233 May 01 08:34 16233 May 18 23:43 16233 Jun 04 12:46 16233 Jun 12 22:59	10°857'36 12°814'21 12°812'12 11°841'07 12°843'12 25°833'56 0°II 3°II04'36 0°G 20°G43'56 26°G35'38	0°06'12 1.40985 AU	superior conj minimum elong desc. node max. Earth dist. evening rise	16234 Mar 20 06:31 16234 Mar 24 21:28 16234 Apr 02 06:32 16234 Apr 02 08:09 16234 Apr 04 16:03 16234 Apr 05 11:14 16234 Apr 09 02:50 16234 Apr 12 21:10 16234 Apr 22 03:00 16234 May 13 18:37 16234 May 18 02:23 16234 May 29 17:36	8°Y57'47 25°Y26'42 25°Y34'26 0°8 1°829'45 8°810'34 14°847'55 0°II 0°9 4°939'14 11°926'57	0°26'19 1.38703 AU
superior conj minimum elong behind sun begin behind sun end max. Earth dist. evening rise	16233 Apr 12 17:43 16233 Apr 18 14:31 16233 Apr 19 07:20 16233 Apr 19 06:51 16233 Apr 19 00:02 16233 Apr 19 13:40 16233 Apr 26 20:44 16233 Apr 29 11:53 16233 May 01 08:34 16233 May 18 23:43 16233 Jun 04 12:46	10°857'36 12°814'21 12°812'12 11°841'07 12°843'12 25°833'56 0°II 3°II04'36 0°S 20°S43'56	0°06'12 1.40985 AU	superior conj minimum elong desc. node max. Earth dist. evening rise	16234 Mar 20 06:31 16234 Mar 24 21:28 16234 Apr 02 06:32 16234 Apr 02 08:09 16234 Apr 04 16:03 16234 Apr 05 11:14 16234 Apr 09 02:50 16234 Apr 12 21:10 16234 Apr 22 03:00 16234 May 13 18:37 16234 May 18 02:23	8°Y57'47 25°Y26'42 25°Y34'26 0°8 1°829'45 8°810'34 14°847'55 0°II 0°\$ 4°\$39'14	0°26'19 1.38703 AU

. ,	1/22/ 1/4 01 22 12	70 T 12152			16227 4 15 05 22	200 47117	
evening set	16236 May 01 23:12	7° Ⅱ 12'52		evening set	16237 Apr 15 05:32	20° 8 46'16	0.64220.441
asc. node	16236 May 03 14:16	5° Ⅱ 46'19	0.66151.477	min. Earth dist.	16237 Apr 19 00:52	17° 8 20'51	0.64328 AU
min. Earth dist.	16236 May 05 22:26	3° Ⅱ 16'17	0.66151 AU	asc. node	16237 Apr 20 11:31	15° 8 49'24	
inferior conj	16236 May 08 01:06	0° Ⅱ 47'51	1°19'32	inferior conj	16237 Apr 21 15:46	14° 8 33'31	0°22'02
minimum elong	16236 May 07 23:16	0° Ⅱ 53'15	1°18'19	minimum elong	16237 Apr 21 15:09	14° 8 35'11	0°21'20
	16236 May 08 17:29	30° ₹8		morning rise	16237 Apr 28 02:57	9° 8 11'46	
morning rise	16236 May 14 00:37	25° 8 11'45		direct	16237 Apr 30 17:01	8° 8 37'39	
direct	16236 May 16 23:45	24° 8 23'25		morning max el	16237 May 07 00:59	11° 8 52'22	17°50'19
morning max el	16236 May 23 07:59	27° 8 42'30	18°11'06		16237 May 19 16:42	Π \circ 0	
	16236 May 25 11:05	Π $\circ 0$		desc. node	16237 May 23 02:18	5° Ⅱ 41′05	
desc. node	16236 Jun 05 05:21	15° Ⅱ 33'27		morning set	16237 May 24 03:42	7° Ⅲ 27'41	
morning set	16236 Jun 11 14:16	25° Ⅱ 45'14					
	16236 Jun 14 05:51	0 \circ \odot		superior conj	16237 Jun 06 14:28	29° Ⅲ 35'43	-1°40'17
				minimum elong	16237 Jun 06 05:56	29° Ⅱ 01'29	1°40'08
superior conj	16236 Jun 26 17:48	19° © 45'55	-2°05'59	_	16237 Jun 06 20:32	0°©	
minimum elong	16236 Jun 26 11:22	19° © 20'44	2°06'21	max. Earth dist.	16237 Jun 11 11:06	7° © 19'05	1.45356 AU
max. Earth dist.	16236 Jun 28 15:19	22°543'37	1.45978 AU	evening rise	16237 Jun 22 08:59	24° © 14'09	
	16236 Jul 03 07:27	0°N		<i>y</i>	16237 Jun 26 03:52	0°N	
evening rise	16236 Jul 12 20:39	14° Ω 48'54		greatest brilliancy	16237 Jul 07 03:42	16° Ω 20'45	-0.6m
evening rise	16236 Jul 22 17:18	0°m)		asc. node	16237 Jul 17 10:33	0° m) 00'54	0.0111
greatest brilliancy	16236 Jul 24 03:18	2° Mp 08'24	-0.7m	use. Houe	16237 Jul 17 10:14	0°m)	
asc. node	16236 Jul 30 13:45	11° m) 26'12	-0.7111	evening max el	16237 Jul 19 12:54	2° m) 15'33	20°02'51
			19°07'49	C	16237 Jul 19 12.34 16237 Jul 27 04:22		20 02 31
evening max el	16236 Aug 05 08:17	18° Mp 21'49	19 0 / 49	retrograde		6° m 35'04	
retrograde	16236 Aug 12 05:31	22° m 09'18		evening set	16237 Jul 31 02:57	5° m 05'46	
evening set	16236 Aug 15 17:50	20° m 57'46			16237 Aug 04 17:32	30°R€	
inferior conj	16236 Aug 21 04:53	15° m 09'11	2°43'39	inferior conj	16237 Aug 05 09:49	29° Ω 05'02	3°01'59
minimum elong	16236 Aug 21 06:45	15° m 03'10	2°43'03	minimum elong	16237 Aug 05 10:52	29° Ω 01'29	3°01'26
min. Earth dist.	16236 Aug 22 17:14	13° Mp 11'54	0.66948 AU	min. Earth dist.	16237 Aug 06 08:19	27° Ω 48'40	0.68161 AU
morning rise	16236 Aug 26 18:57	8° Mp 42'16		morning rise	16237 Aug 10 18:22	22° Ω 39'46	
desc. node	16236 Sep 01 03:19	6° ™ 08'59		direct	16237 Aug 16 08:58	20° Ω 13'01	
direct	16236 Sep 01 20:26	6° Mp 07′00		desc. node	16237 Aug 19 00:41	20° Ω 40'59	
morning max el	16236 Sep 14 11:28	13° m 37'58	25°57'44	morning max el	16237 Aug 27 22:34	27° Ω 08'31	24°34'31
	16236 Sep 27 19:03	0∘ ত			16237 Aug 30 14:46	0° m y	
	16236 Oct 16 18:49	0°M.			16237 Sep 21 09:46	0∘ ত	
morning set	16236 Oct 20 09:59	6°M32'45		morning set	16237 Oct 02 12:41	18° ≏ 22'16	
max. Earth dist.	16236 Oct 24 02:35	13°M29'31	1.35327 AU	max. Earth dist.	16237 Oct 06 02:18	24° ≙ 42'35	1.37597 AU
asc. node	16236 Oct 26 14:58	18°ML23'43			16237 Oct 08 23:26	0° M .	
superior conj	16236 Oct 29 19:48	24° M 49'07	0°28'46	superior conj	16237 Oct 13 04:02	7° M 58'13	-0°02'54
minimum elong	16236 Oct 29 18:14	24°M41'06	0°29'00	minimum elong	16237 Oct 13 04:12	7° M 59'00	0°02'29
8	16236 Nov 01 08:20	0° ∡ 7		behind sun begin	16237 Oct 12 21:33	7°M26'46	
evening rise	16236 Nov 06 11:54	10° х 42'46		behind sun end	16237 Oct 13 10:52	8°M31'17	
evening rise	16236 Nov 16 13:58	0°ਤ		asc. node	16237 Oct 13 11:44	8°M35'33	
evening max el	16236 Nov 24 22:09	11° ろ 09'52	20°20'23	evening rise	16237 Oct 21 15:21	24°M47'39	
desc. node	16236 Nov 28 00:55	13°る50'00	20 2) 23	evening rise	16237 Oct 24 06:16	0° √	
retrograde	16236 Dec 05 22:52	15 さ 30 00		evening max el	16237 Nov 07 10:06	22° × ⁷ 23'25	19°20'10
evening set	16236 Dec 08 07:14	16°る3833		desc. node	16237 Nov 14 22:03	26° x 25 25	19 20 10
•		10 3 23 08	5010!16	retrograde		20 x 33 03 27° x 06′21	
inferior conj	16236 Dec 17 02:28			•	16237 Nov 16 19:49		
minimum elong	16236 Dec 16 17:14	12°る44'28		evening set	16237 Nov 18 17:44	26° ₹ 55'30	20.40140
min. Earth dist.	16236 Dec 18 11:52	11° 3 42'14	0.54621 AU	inferior conj	16237 Nov 27 06:56	22° х 46'58	
morning rise	16236 Dec 25 02:54	8°る32'15		minimum elong	16237 Nov 26 21:48	23° × ⁷ 02'01	3°46'00
direct	16236 Dec 29 16:41	7° る 47'13		min. Earth dist.	16237 Nov 29 20:59	21° × 05'03	0.55729 AU
morning max el	16237 Jan 12 03:21	14° පි 23'14	23°41'54	morning rise	16237 Dec 04 23:36	18° ⋌ 18'55 –	
asc. node	16237 Jan 22 14:12	27° る 34'04		direct	16237 Dec 10 11:50	17° ∡ ¹09'45	
	16237 Jan 24 02:42	0° ≈		morning max el	16237 Dec 24 12:17	24° ∡ 15'35	25°28'50
morning set	16237 Feb 05 01:50	23° ≈ 00′16			16237 Dec 29 18:12	0°ප	
	16237 Feb 08 07:19	0° ∀		asc. node	16238 Jan 09 11:25	15° る 53'39	
					16238 Jan 16 22:18	0° ≈	
superior conj	16237 Feb 11 22:00	7° ¥ 52'32		morning set	16238 Jan 20 13:31	7° ≈ 38'45	
minimum elong	16237 Feb 11 23:47	8° ¥ 02'13	1°28'30				
max. Earth dist.	16237 Feb 14 18:00	13° ¥ 57′29	1.32835 AU	superior conj	16238 Jan 27 07:00	22° ≈ 28'37	1°36'13
evening rise	16237 Feb 19 15:18	24°) €02'36		minimum elong	16238 Jan 27 07:51	22° ≈ 33'17	1°36'41
	16237 Feb 22 16:22	0° Υ		max. Earth dist.	16238 Jan 28 20:27	25° ≈ 55'23	1.31698 AU
desc. node	16237 Feb 24 01:16	2° Ƴ 35'43			16238 Jan 30 17:15	0° ∀	
	16237 Mar 12 18:30	0° 8		evening rise	16238 Feb 03 11:44	8° ₩ 00'01	
evening max el	16237 Mar 25 18:51	15° 8 41'12	27°27'04	desc. node	16238 Feb 10 22:00	22°) 32′12	
	1025 / 11141 25 10.51						
retrograde	16237 Apr 08 11:58	23° 8 14'00			16238 Feb 15 03:12	0° Y	

evening max el	16238 Mar 08 05:25	28° Ƴ 33'45	27°35'40	desc. node	16239 Jan 28 18:44	12° ¥ 05'37	
evening max er	16238 Mar 09 18:55	0° 8	27 33 40	desc. Hode	16239 Feb 09 05:31	12 γ (03 3 / 0° γ	
retrograde	16238 Mar 22 04:38	6° 8 02'35		evening max el	16239 Feb 18 11:04	10° Υ 42'15	27010117
•	16238 Mar 29 00:02	3° 8 47'20		-	16239 Mar 04 12:05	10 1 42 13 18° Y 00'49	2/ 101/
evening set min. Earth dist.		0° 8 47'16	0.62210.411	retrograde evening set		16° Y 05'27	
min. Earth dist.	16238 Apr 01 18:14	0° 6 4/16	0.62210 AU	U	16239 Mar 11 03:32		0.50054.411
	16238 Apr 02 14:36		0040122	min. Earth dist.	16239 Mar 15 01:24	13° Y 22'21	0.59954 AU
inferior conj	16238 Apr 04 18:53	27° Y 55'06		inferior conj	16239 Mar 18 06:44	10° Y 42'06	
minimum elong	16238 Apr 04 20:35	27° Υ 51'04	0°49'08	minimum elong	16239 Mar 18 11:47	10° ℃ 31'34	2°12'05
asc. node	16238 Apr 07 08:48	25° Y °34'45		asc. node	16239 Mar 25 06:08	6° Y ′09'40	
morning rise	16238 Apr 11 20:13	22° Y ′50'04		morning rise	16239 Mar 25 23:35	5° Y ′56′24	
direct	16238 Apr 14 02:30	22° Y ′26'47		direct	16239 Mar 28 00:16	5° Y '40'17	
morning max el	16238 Apr 20 18:33	25° Y ′48'53	17°47'09	morning max el	16239 Apr 04 09:13	9° Y ′20'59	18°02'32
	16238 Apr 24 08:18	0° 8			16239 Apr 17 20:34	0° 8	
morning set	16238 May 06 16:38	20° 8 16'18		morning set	16239 Apr 19 23:02	3° 8 52'22	
desc. node	16238 May 09 23:11	26° 8 01'28		desc. node	16239 Apr 26 20:00	16° 8 29'20	
	16238 May 12 05:56	Π \circ 0					
				superior conj	16239 Apr 30 02:20	22° 8 19'14	-0°26'46
superior conj	16238 May 18 08:49	10° Ⅱ 26′20	-1°04'44	minimum elong	16239 Apr 30 00:05	22° 8 09'16	0°26'54
minimum elong	16238 May 18 02:52	10° Ⅱ 01′22	1°04'32		16239 May 04 12:32	Π \circ 0	
max. Earth dist.	16238 May 25 03:43	21° Ⅱ 34′50	1.44059 AU	max. Earth dist.	16239 May 07 16:08	5° Ⅱ 18′23	1.42220 AU
	16238 May 30 11:06	0 \circ \odot		evening rise	16239 May 13 01:26	14° Ⅱ 05′24	
evening rise	16238 Jun 01 21:50	3°5548'20			16239 May 23 08:59	0 \circ \odot	
	16238 Jun 19 14:01	$0^{\circ}\Omega$		evening max el	16239 Jun 15 05:04	0° Ω 04'40	22°28'55
evening max el	16238 Jul 02 11:30	16° Ω 10′05	21°11'10		16239 Jun 15 03:12	$0^{\circ}\Omega$	
asc. node	16238 Jul 04 07:24	17° Ω 52′23		asc. node	16239 Jun 21 04:20	4° Ω 45'51	
retrograde	16238 Jul 11 03:19	21° Ω 10'24		retrograde	16239 Jun 25 00:43	5° Ω 49'22	
evening set	16238 Jul 15 12:51	19° Ω 23'34		evening set	16239 Jun 29 21:46	3° Ω 46′13	
inferior conj	16238 Jul 20 18:18	13° Ω 12'04	3°08'22	8	16239 Jul 03 07:08	30°Rூ	
minimum elong	16238 Jul 20 18:24	13° Ω 11'44	3°07'47	inferior conj	16239 Jul 05 04:15	27° © 25'39	3°03'56
min. Earth dist.	16238 Jul 21 03:23	12° Ω 40'28	0.68910 AU	minimum elong	16239 Jul 05 03:25	27°528'33	3°03'12
morning rise	16238 Jul 25 23:41	6°Ω51'54	0.00910110	min. Earth dist.	16239 Jul 05 00:10	27° © 39'51	0.69166 AU
direct	16238 Jul 31 02:26	4° Ω 39'08		morning rise	16239 Jul 10 08:55	21°9512'46	0.03100110
desc. node	16238 Aug 05 22:00	6°Ω52'49		direct	16239 Jul 14 23:29	19°917'47	
morning max el	16238 Aug 10 10:01	10°Ω46'52	23°05'23	desc. node	16239 Jul 23 19:16	24°9520'31	
morning max cr	16238 Aug 25 16:35	0° m)	25 05 25	morning max el	16239 Jul 24 00:28	24°933'25	21°39'00
morning set	16238 Sep 13 17:50	29° Mp 16'20		morning max ci	16239 Jul 28 20:50	0°Ω	21 3900
morning set	16238 Sep 13 17.30 16238 Sep 14 04:22	0° ⊽			16239 Aug 19 01:46	0° m y	
max. Earth dist.	16238 Sep 18 01:09	0 = 6° ჲ 31'30	1.40014 AU	morning got	16239 Aug 24 23:13	9° Mg 10'20	
max. Earm dist.	10238 Sep 18 01.09	0 == 31 30	1.40014 AU	morning set	Č		1.42291 AU
	16220 0 25 21-20	200 0 20150	0020126	max. Earth dist.	16239 Aug 31 05:17	~	1.42291 AU
superior conj	16238 Sep 25 21:28	20° £ 26'56			16239 Sep 06 14:35	0∘ ⊽	
minimum elong	16238 Sep 26 00:25	20° Ω 40'29	0-3/33		1/220 0 07 10 42	20.0.05120	1015126
asc. node	16238 Sep 30 08:28	28° Ω 45'45		superior conj	16239 Sep 07 19:42	2° ₾ 05'38	
	16238 Oct 01 00:08	0°M		minimum elong	16239 Sep 08 01:54	2° 2 32'28	1-14-37
evening rise	16238 Oct 05 11:13	8°M32'07		asc. node	16239 Sep 17 05:10	18° ♀ 50'50	
	16238 Oct 17 18:17	0° ₹ ¹	10000100	evening rise	16239 Sep 18 19:46	21° ≏ 46'54	
evening max el	16238 Oct 21 10:57	4° ₹ 26'25	18°33'22		16239 Sep 23 08:34	0°M	10005120
retrograde	16238 Oct 29 11:04	8° ₹ 29'49		evening max el	16239 Oct 04 20:29	17°M09'52	18°0/39
evening set	16238 Oct 31 09:52	8° √ 16'08		retrograde	16239 Oct 11 21:14	20°M46'11	
desc. node	16238 Nov 01 19:14	7° ∡ 750'40		evening set	16239 Oct 14 02:00	20°M25'28	
inferior conj	16238 Nov 08 08:03	3° ∡ ¹46'59		desc. node	16239 Oct 19 16:28	16°M58'13	
minimum elong	16238 Nov 08 03:01	3° ∡ 56'38		inferior conj	16239 Oct 21 06:41	15° M ₃34'50	
min. Earth dist.	16238 Nov 11 12:16		0.57532 AU	minimum elong	16239 Oct 21 05:38	15° M ₊37'11	0°29'36
	16238 Nov 13 11:19	30°RM		min. Earth dist.	16239 Oct 24 12:00	12°M43'18	0.59724 AU
morning rise	16238 Nov 15 16:50	28° ™ 42'27		morning rise	16239 Oct 28 05:59	9° ™ 56'35	
direct	16238 Nov 21 21:22	27°M06'26		direct	16239 Nov 03 19:46	7° M 55′22	
	16238 Nov 30 11:27	0° ∡		morning max el	16239 Nov 18 02:05	15° M 40'51	27°46'29
morning max el	16238 Dec 06 03:00	4° ∡ ³34'49	26°54'55		16239 Nov 29 19:02	0° ∡	
	16238 Dec 24 15:40	0°ಕ		asc. node	16239 Dec 14 05:38	24° ∡ 16'51	
asc. node	16238 Dec 27 08:34	4° る 51'19			16239 Dec 17 03:14	0°₹	
morning set	16239 Jan 04 23:13	22° る 07'25		morning set	16239 Dec 20 05:07	6° る 22'02	
	16239 Jan 08 13:36	0° ≈		max. Earth dist.	16239 Dec 26 10:49	19° る 59'37	1.31023 AU
superior conj						210712122	1000151
superior conj	16239 Jan 11 18:05	7° ≈ 07'19	1°38'03	superior conj	16239 Dec 27 05:24	21° る 43'32	
minimum elong	16239 Jan 11 18:05 16239 Jan 11 17:53	7°≈07'19 7°≈06'07	1°38'03 1°38'39	superior conj minimum elong	16239 Dec 27 05:24 16239 Dec 27 04:11	21° る 36'44	
minimum elong	16239 Jan 11 17:53	7° ≈ 06'07	1°38'39		16239 Dec 27 04:11	21° る 36'44	
minimum elong max. Earth dist.	16239 Jan 11 17:53 16239 Jan 12 03:12	7°≈06'07 7°≈58'20	1°38'39	minimum elong	16239 Dec 27 04:11 16239 Dec 30 22:17	21° ට 36'44 0°≈	

desc. node	16240 Jan 15 15:30	1° ¥ 07'30			16240 Dec 21 14:52	0° ≈	
evening max el	16240 Jan 31 09:09	21°\(\frac{1}{30}\)	26°09'54	desc. node	16241 Jan 01 12:20	0 ~ 19° ≈ 25'37	
retrograde	16240 Feb 14 08:22	29°) 03'58	20 0/31	dese. node	16241 Jan 09 14:29	0° ∀	
evening set	16240 Feb 20 12:35	27°) 33'40		evening max el	16241 Jan 11 22:41	2° ¥ 23'34	24°40'53
min. Earth dist.	16240 Feb 24 22:19	24° ¥ 55'48	0.57775 AU	retrograde	16241 Jan 25 16:00	9°){ 14'41	
inferior conj	16240 Feb 27 23:37	22°) 44'32		evening set	16241 Jan 30 23:53	8° ¥ 11'57	
minimum elong	16240 Feb 28 08:05	22°) 29′19		min. Earth dist.	16241 Feb 05 10:40		0.55930 AU
morning rise	16240 Mar 07 06:48	18° ¥ 20′21		inferior conj	16241 Feb 07 19:14	3°) € 54'48	-5°08'03
direct	16240 Mar 09 05:56	18°) €07'44		minimum elong	16241 Feb 08 04:19	3°) (40′35	
asc. node	16240 Mar 11 03:26	18°) € 20'02		Č	16241 Feb 15 19:43	30°R ≈	
morning max el	16240 Mar 17 17:05	22° ₩ 17'48	18°38'09	morning rise	16241 Feb 16 11:02	29° ≈ 51'29	
-	16240 Mar 23 17:29	0° Y		direct	16241 Feb 18 15:54	29° ≈ 38'19	
morning set	16240 Apr 02 17:41	18° Y ′00'33			16241 Feb 21 09:56	0°)	
	16240 Apr 08 23:00	9° 8		asc. node	16241 Feb 26 00:45	2°) 17′22	
				morning max el	16241 Feb 28 13:59	4°) €27'38	19°36'03
superior conj	16240 Apr 11 15:58	5° 8 06'00	0°08'41		16241 Mar 16 14:53	0° Y	
minimum elong	16240 Apr 11 16:33	5° 8 08'40	0°08'14	morning set	16241 Mar 17 20:38	2° Y 29'00	
behind sun begin	16240 Apr 11 10:31	4° 8 40'31					
behind sun end	16240 Apr 11 22:35	5° 8 36'45		superior conj	16241 Mar 25 21:20	18° Ƴ 34'34	0°39'00
desc. node	16240 Apr 12 16:45	7° 8 00'56		minimum elong	16241 Mar 25 23:27	18° Ƴ 44'54	0°38'28
max. Earth dist.	16240 Apr 19 00:24	18° 8 21'13	1.40031 AU	desc. node	16241 Mar 30 13:27	27° Y 32'34	
evening rise	16240 Apr 23 01:54	25° 8 17'21			16241 Mar 31 21:09	0° 8	
	16240 Apr 25 22:19	Π $\circ 0$		max. Earth dist.	16241 Apr 01 06:28	0° 8 42'56	1.37726 AU
	16240 May 16 02:12	0 \circ \odot		evening rise	16241 Apr 04 22:56	7° 8 21'27	
evening max el	16240 May 27 19:29	13° © 59'32	23°50'30		16241 Apr 18 19:19	Π °0	
asc. node	16240 Jun 07 01:18	20°523'49		evening max el	16241 May 10 08:49	27° Ⅱ 54'08	25°09'18
retrograde	16240 Jun 07 19:18	20°526'13			16241 May 12 14:48	0 \circ 60	
evening set	16240 Jun 13 04:03	18° 5 09'06		retrograde	16241 May 22 10:04	4° 9 54'42	
min. Earth dist.	16240 Jun 17 20:35	12° 5 540'18	0.68927 AU	asc. node	16241 May 24 22:21	4° © 28'33	
inferior conj	16240 Jun 18 13:44	11° © 41'46	2°49'04	evening set	16241 May 28 06:07	2° 5 27'26	
minimum elong	16240 Jun 18 12:07	11° © 47'15	2°48'07		16241 May 30 16:03	30°R∏	
morning rise	16240 Jun 23 20:12	5° © 37'35		min. Earth dist.	16241 Jun 01 14:38	27° Ⅲ 35'41	0.68200 AU
direct	16240 Jun 27 22:48	4°902'11		inferior conj	16241 Jun 02 20:52		2°23'33
morning max el	16240 Jul 05 20:47	8°930'34	20°21'56	minimum elong	16241 Jun 02 18:46	26° Ⅱ 03'38	2°22'21
desc. node	16240 Jul 09 16:29	12°5544'39		morning rise	16241 Jun 08 07:47	20°∏02'22	
	16240 Jul 22 05:58	0°N		direct	16241 Jun 11 22:59	18° Ⅱ 46'36	1001010
morning set	16240 Aug 03 08:58	18° Ω 16'12		morning max el	16241 Jun 19 00:22	22° Ⅱ 38'19	19°18'29
TO ALLEY	16240 Aug 10 21:13	0°M) 2°™.51114	1 44160 411		16241 Jun 25 05:10	0.22	
max. Earth dist.	16240 Aug 12 16:16	2°110/51/14	1.44162 AU	desc. node	16241 Jun 26 13:37	1°950'36	0.7
superior conj	16240 Aug 18 19:00	120m 45152	1040115	greatest brilliancy morning set	16241 Jul 01 17:04 16241 Jul 13 13:50	9° © 14'21 27° © 14'15	-0.7m
minimum elong	16240 Aug 18 19.00 16240 Aug 19 02:55	12° m/45'52 13° m/18'25		morning set	16241 Jul 15 13:50	27 3 14 13 0° Ω	
minimum eiong	16240 Aug 19 02.33 16240 Aug 29 00:13	0° ت 13 اللا1973	1 4/46	max. Earth dist.	16241 Jul 13 08:33		1.45432 AU
evening rise	16240 Aug 31 12:13	0 == 4° ₽ 19'24		max. Earm dist.	10241 Jul 20 06.32	1/ 6603 30	1.43432 AU
asc. node	16240 Sep 03 01:50	4 = 1924 8° • 46'22		superior conj	16241 Jul 29 19:44	22° Ω 31'37	-2°00'48
use. Houe	16240 Sep 17 01:27	0°M		minimum elong	16241 Jul 30 00:42	22° Ω 51'16	
evening max el	16240 Sep 17 10:27	0°ML22'45	18°01'26	minimum ciong	16241 Aug 03 12:16	0° m)	2 10 03
retrograde	16240 Sep 23 22:26	3°M45'27	10 01 20	evening rise	16241 Aug 13 07:18	15° m/ 56'58	
evening set	16240 Sep 26 11:00	3°M14'03		asc. node	16241 Aug 20 22:32	28° m/28'15	
8	16240 Oct 01 00:56	30° RΩ			16241 Aug 21 21:25	0∘ <u>⊽</u>	
inferior conj	16240 Oct 02 23:47	28° ♀ 04'13	0°47'27	evening max el	16241 Sep 01 01:16	13° ≏ 56'51	18°13'34
minimum elong	16240 Oct 03 01:08	28° ♀ 00'46	0°47'13	retrograde	16241 Sep 07 10:03	17° ≏ 19'02	
desc. node	16240 Oct 05 13:45	25° ≏ 26'08		evening set	16241 Sep 10 07:19	16° ≏ 33'50	
min. Earth dist.	16240 Oct 05 21:43	25° ≙ 06'31	0.62017 AU	inferior conj	16241 Sep 16 07:26	11° ≏ 07'33	1°45'59
morning rise	16240 Oct 09 12:41	22° ჲ 00'39		minimum elong	16241 Sep 16 09:42	11° ≏ 01'06	1°45'21
direct	16240 Oct 16 05:10	19° ₽ 39'18		min. Earth dist.	16241 Sep 18 17:35	8° ≏ 22'16	0.64181 AU
morning max el	16240 Oct 30 08:07	27° ≏ 35'54	27°58'36	morning rise	16241 Sep 22 10:18	4° ≏ 48'33	
	16240 Nov 01 15:26	0° M ,		desc. node	16241 Sep 22 11:04	4° ≏ 47'02	
	16240 Nov 22 13:07	0° ∡ ¹		direct	16241 Sep 29 00:06	2° ≏ 14'45	
asc. node	16240 Nov 30 02:38	14° ₹ °01'47		morning max el	16241 Oct 12 18:17	10° ≏ 12'40	27°33'45
morning set	16240 Dec 03 05:06	20° ∡ 16'45			16241 Oct 28 08:36	0° M	
	16240 Dec 07 19:17	0°ರ			16241 Nov 14 22:31	0° ∡ ¹	
max. Earth dist.	16240 Dec 08 15:12	1° る 48'26	1.31510 AU	morning set	16241 Nov 16 20:45	3° х 46′24	
				asc. node	16241 Nov 16 23:34	4° ₹ 00'24	
superior conj	16240 Dec 10 15:00	6° ප 11'14		max. Earth dist.	16241 Nov 21 12:36	13° ∡ 17'41	1.32567 AU
minimum elong	16240 Dec 10 13:00	6° පි 00'12	1°24'03				
evening rise	16240 Dec 17 08:20	21° ろ 00'59		superior conj	16241 Nov 24 20:55	20° ∡ °25'38	1°07'08

	1624124 24 10 24	200 712152	1007107		1624231 00 20 50	40 700150	0044124
minimum elong	16241 Nov 24 18:34	20°ズ12'53 0°る	1007/27	superior conj	16242 Nov 08 20:50	4° ×7 20'52	0°44'31
avanina riaa	16241 Nov 29 06:33	0°る 5° る 27'50		minimum elong	16242 Nov 08 18:43	4° × ⁷ 09'53	0°44'45
evening rise	16241 Dec 01 19:07 16241 Dec 14 16:22	0°≈		evening rise	16242 Nov 16 04:47	19° メ *50'41 0°る	
desc. node	16241 Dec 14 16.22 16241 Dec 19 09:13	0 ≈ 6°≈44'33		avaning may al	16242 Nov 21 03:54 16242 Dec 05 22:44	0 3 22° る 25'56	21010/04
evening max el	16241 Dec 24 08:04	0 ≈44 33 12°≈20'15	22057155	evening max el desc. node	16242 Dec 06 06:12	22° る 44'05	21 1904
retrograde	16242 Jan 06 10:49	12 ≈ 20 13 18° ≈ 49'27	22 37 33	retrograde	16242 Dec 17 20:50	22 3 4403 28° る 19'34	
evening set	16242 Jan 10 13:36	18°≈12'39		evening set	16242 Dec 20 17:47	28°る00'30	
min. Earth dist.	16242 Jan 17 17:52	14°≈53'37	0.54719 AU	inferior conj	16242 Dec 29 10:48	24°る10'25	-5°50'09
inferior conj	16242 Jan 18 19:50	14°≈16'35		minimum elong	16242 Dec 29 04:56	24° පි 18'40	
minimum elong	16242 Jan 18 23:16	14°≈11'42		min. Earth dist.	16242 Dec 29 23:16	23° る 52'52	
morning rise	16242 Jan 27 10:11	10°≈26'55	0 0002	morning rise	16243 Jan 06 16:25	20° ට 20'21	0.0 .50 . 110
direct	16242 Jan 30 07:43	10° ≈ 07'21		direct	16243 Jan 10 15:29	19° ප් 46'22	
morning max el	16242 Feb 10 20:29	15° ≈ 41'41	20°57'10	morning max el	16243 Jan 23 12:40	26° පි 02'34	22°38'26
asc. node	16242 Feb 12 22:06	17° ≈ 51'28		5 5	16243 Jan 27 04:51	0° ≈	
	16242 Feb 21 08:25	0°) €		asc. node	16243 Jan 30 19:24	4° ≈ 44'03	
morning set	16242 Mar 02 04:51	17° ¥ 08'39			16243 Feb 13 18:40	0°) €	
C	16242 Mar 08 08:38	0° Y		morning set	16243 Feb 14 16:01	1° ¥ 52'52	
				S			
superior conj	16242 Mar 09 14:22	2° Y 33'19	1°03'10	superior conj	16243 Feb 21 15:43	16° ¥ 52'57	1°20'56
minimum elong	16242 Mar 09 16:54	2° Y 46'20	1°02'50	minimum elong	16243 Feb 21 17:55	17°) €04'42	1°20'55
max. Earth dist.	16242 Mar 14 14:57	12° Y 37'57	1.35556 AU	max. Earth dist.	16243 Feb 25 06:14	24°) € 27′23	1.33710 AU
desc. node	16242 Mar 17 10:07	18° Ƴ 00'14			16243 Feb 27 23:43	0° Υ	
evening rise	16242 Mar 18 13:37	20° Y ′09′01		evening rise	16243 Mar 01 18:26	3° Ƴ 30'51	
	16242 Mar 24 01:19	9° 8		desc. node	16243 Mar 04 06:48	8° Y 20'08	
	16242 Apr 12 18:53	Π °0			16243 Mar 16 21:31	9° 8	
evening max el	16242 Apr 22 22:23	11° Ⅱ 44'16	26°17'57	evening max el	16243 Apr 05 12:11	25° 8 22'11	27°08'48
retrograde	16242 May 05 19:59	19° Ⅱ 06'36			16243 Apr 11 02:01	Π °0	
asc. node	16242 May 11 19:29	16° Ⅱ 47'42		retrograde	16243 Apr 18 23:54	2° Ⅱ 53'42	
evening set	16242 May 12 02:08	16° Ⅱ 34'19		evening set	16243 Apr 25 14:07	0° Ⅲ 22'38	
min. Earth dist.	16242 May 16 04:18	12° Ⅱ 18'07	0.67014 AU		16243 Apr 26 01:29	30° ₹ 8	
inferior conj	16242 May 17 23:34	10° Ⅱ 05'12	1°46'32	asc. node	16243 Apr 28 16:41	27° 8 30'17	
minimum elong	16242 May 17 21:27	10° Ⅱ 11'45	1°45'15	min. Earth dist.	16243 Apr 29 11:32	26° 8 39'30	0.65416 AU
morning rise	16242 May 23 17:40	4° Ⅱ 21'51		inferior conj	16243 May 01 19:28	24° 8 01'40	0°56'53
direct	16242 May 26 22:19	3° Ⅱ 24'14		minimum elong	16243 May 01 18:01	24° 8 05'46	0°55'50
morning max el	16242 Jun 02 10:39	6° Ⅱ 51'55	18°30'51	morning rise	16243 May 07 23:35	18° 8 31'07	
desc. node	16242 Jun 13 10:41	21° II 26'39		direct	16243 May 10 18:41	17° 8 49'13	10000105
. ,	16242 Jun 18 23:18	0°©		morning max el	16243 May 17 01:52	21° 8 05'13	18°00'05
morning set	16242 Jun 23 09:23	6°956'29		daga mada	16243 May 24 01:57	0°Ⅱ 11°Ⅲ24'52	
	16242 Jul 08 03:02	0 ° Ω		desc. node	16243 May 31 07:41 16243 Jun 04 07:16	11° Ⅲ 24'52 17° Ⅲ 54'55	
aumorior comi	16242 Iul 00 06:12	1° Ω 45'54	2012112	morning set	16243 Jun 11 17:59	17 ப 3433	
superior conj minimum elong	16242 Jul 09 06:13 16242 Jul 09 03:39	1° Ω 35'54			10243 Juli 11 17.39	0 39	
max. Earth dist.	16242 Jul 09 03:53	1°Ω36'48	1.45993 AU	superior conj	16243 Jun 18 18:29	11° © 10'38	-1°56'50
evening rise	16242 Jul 25 01:15	26° Ω 30'25	1.43773 AO	minimum elong	16243 Jun 18 10:23	10°938'41	1°56'57
evening rise	16242 Jul 27 06:21	0° m)		max. Earth dist.	16243 Jun 22 00:14	16°915'53	1.45805 AU
greatest brilliancy	16242 Aug 02 07:05	9° Mp 28'36	-0.8m	max. Dartii dist.	16243 Jun 30 20:35	0° Ω	1.15005710
asc. node	16242 Aug 07 19:15	17° m 50'06	0.0111	evening rise	16243 Jul 04 21:01	6° Ω 11'03	
evening max el	16242 Aug 15 13:54	27° m/43'36	18°43'16	greatest brilliancy	16243 Jul 18 02:49	26° Ω 14'28	-0.7m
5	16242 Aug 18 07:56	0∘ ⊽		J	16243 Jul 20 16:59	0° m)	
retrograde	16242 Aug 22 04:13	1° ≏ 18'04		asc. node	16243 Jul 25 16:00	6° Mp 44'40	
evening set	16242 Aug 25 10:52	0° ჲ 16'42		evening max el	16243 Jul 29 21:57	11° m)36'31	19°29'29
-	16242 Aug 25 21:01	30°R, Mp		retrograde	16243 Aug 06 01:58	15° m 35'53	
inferior conj	16242 Aug 31 01:45	24° Mp 36'01	2°26'59	evening set	16243 Aug 09 18:37	14° m) 16'50	
minimum elong	16242 Aug 31 03:56	24° m 29'14	2°26'20	inferior conj	16243 Aug 15 03:33	8° m/23'10	2°52'57
min. Earth dist.	16242 Sep 01 22:16	22° m 17'57	0.66051 AU	minimum elong	16243 Aug 15 05:06	8° m) 18'04	2°52'23
morning rise	16242 Sep 05 19:57	18° m 10'10		min. Earth dist.	16243 Aug 16 10:01	6° Mp 42'31	0.67524 AU
desc. node	16242 Sep 09 08:26	16° My $02'12$		morning rise	16243 Aug 20 15:01	1° Mp 56'39	
direct	16242 Sep 12 02:56	15° m 32'46			16243 Aug 23 14:26	30°R Ω	
morning max el	16242 Sep 25 05:42	23° m 18'05	26°39'04	direct	16243 Aug 26 12:12	29° Ω 24'01	
	16242 Oct 01 04:59	0∘ ⊽		desc. node	16243 Aug 27 05:48	29° Ω 26′08	
	16242 Oct 21 16:27	0°M₊			16243 Aug 29 14:48	0° m)	
morning set	16242 Oct 31 01:02	16°M44'01		morning max el	16243 Sep 07 16:50	6° Mp 41′09	25°23'36
asc. node	16242 Nov 03 20:27	24°M07'33			16243 Sep 25 20:30	0∘ ⊽	
max. Earth dist.	16242 Nov 04 00:23	24°M27'06	1.34176 AU	morning set	16243 Oct 13 14:14	29° ♀ 00'53	
	16242 Nov 06 18:21	0° ∡ ¹			16243 Oct 14 03:19	0°M	1.26252 :==
				max. Earth dist.	16243 Oct 17 03:22	5~IIL31'44	1.36258 AU

asc. node	16243 Oct 21 17:15	14° M .18'51			16244 Aug 28 12:08 16244 Sep 18 00:35	0°₽	
superior conj	16243 Oct 23 11:48	17° M 49'27	0°15'59	morning set	16244 Sep 24 08:15	0 — 10° ≏ 28'06	
minimum elong	16243 Oct 23 10:50	17°M44'37	0°16'17	max. Earth dist.	16244 Sep 28 02:28	16° ⊆ 59'38	1.38624 AU
minimum ciong	16243 Oct 29 11:35	0° ∡ 7	0 10 17	max. Earth dist.	16244 Oct 05 05:11	0°M	1.50021710
evening rise	16243 Oct 31 11:13	4° ∡ 104'07			10244 001 03 03.11	O IIG	
evening rise	16243 Nov 15 06:41	0°る		superior conj	16244 Oct 05 14:18	0°M43'06	-0°17'38
evening max el	16243 Nov 18 02:17	3°る10'48	19°57'14	minimum elong	16244 Oct 05 15:32	0°M48'55	0°17'06
desc. node	16243 Nov 23 03:17	6° る 59'45	19 3/ 14	asc. node	16244 Oct 07 13:59	4°M30'46	0 1700
retrograde	16243 Nov 28 09:55	8° る 19'33			16244 Oct 17 13:59	18°ML02'01	
U	16243 Nov 30 12:18	8° る 07'45		evening rise	16244 Oct 14 11.32 16244 Oct 20 18:02	0° √	
evening set		8°00/45 4° 3 08'45	49.4.412.2			0° x ′ 14° x ′46′08	18°57'32
inferior conj	16243 Dec 09 06:29			evening max el	16244 Oct 30 20:05	14° x '46'08	18-5/32
minimum elong	16243 Dec 08 20:27	4°る24'00	4°41'05	retrograde	16244 Nov 08 14:25		
min. Earth dist.	16243 Dec 11 05:44	2°る56'52	0.54995 AU	desc. node	16244 Nov 09 00:25	19° √ 10'44	
morning rise	16243 Dec 17 03:30	29° х 59'37		evening set	16244 Nov 10 11:48	18° ₹ 59'46	2006104
1.	16243 Dec 17 03:05	30°₹ ⋌ ¹		inferior conj	16244 Nov 18 19:15	14° ₹ 42'26	
direct	16243 Dec 22 03:48	29° ₹ '04'43		minimum elong	16244 Nov 18 11:39	14° ₹ ′55'45	3°02'34
	16243 Dec 27 02:23	0°る		min. Earth dist.	16244 Nov 21 16:53	12° ∡ ′40'43	0.56428 AU
morning max el	16244 Jan 04 21:11		24°28'39	morning rise	16244 Nov 26 08:44	9° ∡ ′59′13	
asc. node	16244 Jan 17 16:40	22° る 36'24		direct	16244 Dec 02 04:34	8° ∡ ′39'09	
	16244 Jan 21 22:28	0° ≈		morning max el	16244 Dec 16 08:01	15° ∡ ′54'33	26°09'01
morning set	16244 Jan 30 04:03	16° ≈ 34'57			16244 Dec 27 17:35	0°ಕ	
	16244 Feb 05 07:08	0° ∀		asc. node	16245 Jan 03 13:52	11° る 13'52	
					16245 Jan 13 02:03	0° ≈	
superior conj	16244 Feb 05 22:34		1°32'25	morning set	16245 Jan 13 15:08	1°≈10'12	
minimum elong	16244 Feb 05 23:59	1° ∺ 32'30	1°32'43				
max. Earth dist.	16244 Feb 08 05:14	6° ∺ 22'15	1.32297 AU	superior conj	16245 Jan 20 08:42	16° ≈ 02'38	1°37'44
evening rise	16244 Feb 13 09:59	17° ₩ 17'13		minimum elong	16245 Jan 20 09:05	16° ≈ 04'51	1°38'16
desc. node	16244 Feb 19 03:29	28°) € 26′42		max. Earth dist.	16245 Jan 21 10:07	18° ≈ 24′03	1.31380 AU
	16244 Feb 19 23:40	0° Y			16245 Jan 26 18:00	0° ∀	
	16244 Mar 10 08:18	9° 8		evening rise	16245 Jan 27 09:30	1° ∺ 21′38	
evening max el	16244 Mar 18 00:40	8° 8 35'14	27°34'35	desc. node	16245 Feb 05 00:11	18° ∺ 14′20	
retrograde	16244 Mar 31 20:44	16° 8 06'15			16245 Feb 11 22:31	0 ° Υ	
evening set	16244 Apr 07 15:42	13° 8 43'12		evening max el	16245 Feb 28 09:23	21° Y 10'02	27°29'02
min. Earth dist.	16244 Apr 11 10:17	10° 8 29'16	0.63462 AU	retrograde	16245 Mar 14 09:22	28° Y 34'34	
inferior conj	16244 Apr 14 05:38	7° 8 38'21	-0°06'34	evening set	16245 Mar 21 04:09	26° Y 26'46	
minimum elong	16244 Apr 14 05:51	7° 8 37'48	0°06'52	min. Earth dist.	16245 Mar 24 23:07	23° Y 35'24	0.61265 AU
transit middle	16244 Apr 14 05:51	7° 겅 37'48	0°06'52	inferior conj	16245 Mar 28 02:41	20° Ƴ 46′12	-1°24'01
transit begin	16244 Apr 14 03:00	7° 8 45'06		minimum elong	16245 Mar 28 05:42	20° Ƴ 39'24	1°22'58
transit end	16244 Apr 14 08:43	7° ႘ 30′31		asc. node	16245 Apr 01 11:16	17° Ƴ 15'43	
asc. node	16244 Apr 14 13:57	7° 엉 17'12		morning rise	16245 Apr 04 10:34	15° Ƴ 49'14	
morning rise	16244 Apr 20 22:33	2° 8 23'06		direct	16245 Apr 06 14:15	15° Ƴ 29'22	
direct	16244 Apr 23 09:13	1° 8 53'52		morning max el	16245 Apr 13 12:11	18° Ƴ 57'34	17°51'22
morning max el	16244 Apr 29 19:26	5° 8 10'10	17°46'44		16245 Apr 21 14:05	9° 8	
morning set	16244 May 16 07:24	0° Ⅱ 07'49		morning set	16245 Apr 29 04:24	13° 8 18'33	
	16244 May 16 05:34	Π° 0		desc. node	16245 May 04 01:27	22° 8 02'43	
desc. node	16244 May 17 04:37	1° Ⅱ 38'37			16245 May 08 14:18	Π°	
superior conj	16244 May 28 23:36	21° Ⅲ 24′12	-1°25'55	superior conj	16245 May 10 03:58	2° Ⅲ 42′02	-0°48'33
minimum elong	16244 May 28 15:48	20° Ⅲ 52′24	1°25'40	minimum elong	16245 May 09 23:36	2° Ⅲ 23′22	0°48'29
	16244 Jun 03 07:42	0°9		max. Earth dist.	16245 May 17 10:38	14° Ⅲ 51'13	1.43333 AU
max. Earth dist.	16244 Jun 03 19:22	0° © 46'25	1.44886 AU	evening rise	16245 May 24 01:12	25° Ⅲ 24′04	
evening rise	16244 Jun 13 07:28	15° © 34'59			16245 May 27 00:19	0 ° \mathfrak{S}	
	16244 Jun 22 21:00	$0^{\circ}\Omega$			16245 Jun 16 19:50	$0^{\circ}\Omega$	
asc. node	16244 Jul 11 12:48	25° Ω 02'40		evening max el	16245 Jun 24 20:09	9° Ω 24'58	21°43'22
evening max el	16244 Jul 12 00:03	25° Ω 31'07	20°30'30	asc. node	16245 Jun 28 09:40	12° Ω 31′23	
	16244 Jul 18 21:47	0° m y		retrograde	16245 Jul 03 23:32	14° Ω 44'21	
retrograde	16244 Jul 20 01:01	0° Mp 06'44		evening set	16245 Jul 08 13:57	12° Q 50′08	
	16244 Jul 21 03:36	30° R Ω		inferior conj	16245 Jul 13 19:32	6° Ω 34'19	3°07'46
evening set	16244 Jul 24 04:18	28° Ω 29'40		minimum elong	16245 Jul 13 19:14	6° Ω 35'24	3°07'09
inferior conj	16244 Jul 29 10:14	22° Ω 24'12	3°06'02	min. Earth dist.	16245 Jul 13 22:54	6° £ 22'33	0.69075 AU
minimum elong	16244 Jul 29 10:53	22° Ω 21'58	3°05'31	morning rise	16245 Jul 19 00:19	0° Ω 17'07	
min. Earth dist.	16244 Jul 30 02:56	21° Ω 26'49	0.68539 AU	-	16245 Jul 19 08:30	30° ℝ ∽	
morning rise	16244 Aug 03 17:10	16° Ω 01'03		direct	16245 Jul 23 21:47	28° © 11'52	
direct	16244 Aug 09 02:50	13° Ω 39′50			16245 Jul 28 23:54	$0^{\circ}\Omega$	
desc. node	16244 Aug 13 03:09	14° Ω 43'44		desc. node	16245 Jul 31 00:28	1° Ω 30′28	
morning max el	16244 Aug 20 03:51	20° Ω 15'26	23°56'55	morning max el	16245 Aug 02 16:21	3° Ω 57'37	22°27'58
-	-			-	-		

	16245 Aug 22 14:28	0° m/y		direct	16246 Jul 07 19:58	12° © 53'58	
	16245 Aug 22 14.28 16245 Sep 05 03:17	20° Mp 56'32		direct	16246 Jul 16 09:03	12 \$33 38 17°\$49'04	21904142
morning set max. Earth dist.	16245 Sep 10 03:17	20 m/30 32 29° m/11'34	1.41012 AU	morning max el desc. node	16246 Jul 17 21:42	17 949 04 19°9 24'38	21 0442
max. Earth dist.	16245 Sep 10 03.12 16245 Sep 10 14:41	0° ⊡	1.41012 AU	desc. node	16246 Jul 26 08:49	19 3 024 38	
	10243 Sep 10 14.41	0 ==		marning sat		0°m/27'06	
gunariar agni	16245 Sep 17 24:00	12° £ 51'03	0°54'20	morning set	16246 Aug 15 23:10	0°m)	
superior conj	•	12° 2 251'03		may Earth dist	16246 Aug 15 16:13	~	1 42140 ATT
minimum elong asc. node	16245 Sep 18 04:21	13° 2 210′32 24° 2 39′01	0-55/55	max. Earth dist.	16246 Aug 23 09:35	12° My 16'23	1.43149 AU
asc. node	16245 Sep 24 10:40			aumorior comi	16246 Aug 20 12:42	2.40 m 05100	1920115
	16245 Sep 27 07:10	0°ጤ 1°ጤ35'06		superior conj	16246 Aug 30 12:43	24° Mp 05'08	
evening rise	16245 Sep 28 03:24		10010157	minimum elong	16246 Aug 30 20:00	24° ™ 35'59 0° ₽	1°29'31
evening max el	16245 Oct 14 01:03	27°M06'56	18°19'57		16246 Sep 02 23:41		
	16245 Oct 17 19:55	0° ⊼ ¹		evening rise	16246 Sep 11 05:42	14° 2 33'11	
retrograde	16245 Oct 21 14:11	0° ∡ 757'37		asc. node	16246 Sep 11 07:19	14° £ 40'25	
evening set	16245 Oct 23 14:57	0° ∡ 741'33			16246 Sep 20 02:48	0°M	10000115
	16245 Oct 25 12:08	30°RM.		evening max el	16246 Sep 27 12:55	10°M03'57	18°02'45
desc. node	16245 Oct 26 21:39	29°M14'54	1000150	retrograde	16246 Oct 04 07:04	13°M32'46	
inferior conj	16245 Oct 31 05:41	26°M03'07		evening set	16246 Oct 06 14:57	13°ML08'00	
minimum elong	16245 Oct 31 02:30	26°M₀9'39	1°21'59	inferior conj	16246 Oct 13 12:36	8°M.09'13	0°04'58
min. Earth dist.	16245 Nov 03 11:40	23°M24'06	0.58428 AU	minimum elong	16246 Oct 13 12:46	8°MJ08'49	0°05'17
morning rise	16245 Nov 07 10:33	20°M43'04		transit middle	16246 Oct 13 12:46	8°MJ08'49	0°05'17
direct	16245 Nov 13 19:40	18° M 55'58		transit begin	16246 Oct 13 09:40	8°M16'10	
morning max el	16245 Nov 28 02:30	26°M33'01	27°21'38	transit end	16246 Oct 13 15:52	8° M 01'27	
	16245 Dec 01 09:23	0° ∡ ¹		desc. node	16246 Oct 13 18:54	7° ጤ 54'13	
asc. node	16245 Dec 21 10:58	0° る 24'22		min. Earth dist.	16246 Oct 16 15:43	5°M12'16	0.60703 AU
	16245 Dec 21 05:47	0°ප		morning rise	16246 Oct 20 07:28	2°M18'56	
morning set	16245 Dec 28 23:27	15° る 33'45		direct	16246 Oct 26 23:16	0° ™ 07'54	
				morning max el	16246 Nov 10 04:43	7° M 59'49	27°56'24
superior conj	16246 Jan 04 20:06	0° ≈ 41'05	1°37'01		16246 Nov 27 00:30	0° ∡ ¹	
minimum elong	16246 Jan 04 19:27	0° ≈ 37'25	1°37'38	asc. node	16246 Dec 08 07:59	19° ∡ 58'45	
max. Earth dist.	16246 Jan 04 17:36	0° ≈ 27'07	1.30988 AU	morning set	16246 Dec 13 03:05	29° х 40′23	
	16246 Jan 04 12:46	0° ≈			16246 Dec 13 06:50	0°₹	
evening rise	16246 Jan 11 14:40	15° ≈ 38'35		max. Earth dist.	16246 Dec 19 00:04	12° る 22'54	1.31151 AU
	16246 Jan 18 16:39	0° ∀					
desc. node	16246 Jan 22 20:56	7°) ₹35'49		superior conj	16246 Dec 20 06:54	15° る 14'22	1°30'15
	16246 Feb 07 14:45	0° Y		minimum elong	16246 Dec 20 05:19	15° る 05'33	1°30'48
evening max el	16246 Feb 10 11:50	2° Y 56'26	26°48'38	evening rise	16246 Dec 26 23:26	0° ≈ 02'57	
retrograde	16246 Feb 24 12:38	10° Y 10′36			16246 Dec 26 22:53	0° ≈	
evening set	16246 Mar 03 00:21	8° Y 25'03		desc. node	16247 Jan 09 17:43	26° ≈ 20'48	
min. Earth dist.	16246 Mar 07 01:46	5° Ƴ 46'00	0.59001 AU		16247 Jan 12 01:52	0° ∀	
inferior conj	16246 Mar 10 06:53	3° Y 15'44	-2°52'30	evening max el	16247 Jan 23 06:13	13° ¥ 50′07	25°35'01
minimum elong	16246 Mar 10 13:30	3° Y ′02'47	2°49'59	retrograde	16247 Feb 06 04:08	20° ¥ 50′25	
	16246 Mar 14 22:56	30° Ŗ ₩		evening set	16247 Feb 12 00:33	19° ¥ 31′59	
morning rise	16246 Mar 18 06:16	28° ∺ 39′27		min. Earth dist.	16247 Feb 16 19:04	16° ¥ 51′27	0.56923 AU
asc. node	16246 Mar 19 08:36	28° ∺ 28′10		inferior conj	16247 Feb 19 14:52	14° ¥ 56′57	-4°22'39
direct	16246 Mar 20 05:32	28° ∺ 25′22		minimum elong	16247 Feb 20 00:11	14° ¥ 41′12	4°19'38
	16246 Mar 25 04:52	0° Y		morning rise	16247 Feb 28 02:44	10°) 41′52	
morning max el	16246 Mar 28 00:34	2° Y 17'10	18°15'08	direct	16247 Mar 02 02:56	10° ¥ 29'41	
morning set	16246 Apr 12 16:35	27° Y 10'24		asc. node	16247 Mar 06 05:57	11° ∺ 24'17	
	16246 Apr 14 04:32	9° 8		morning max el	16247 Mar 11 04:21	14° ¥ 55'58	18°59'54
desc. node	16246 Apr 20 22:13	12° 8 33'05			16247 Mar 21 14:50	0° Y	
				morning set	16247 Mar 27 15:13	11° Y 28'41	
superior conj	16246 Apr 22 06:38	15° 8 00'20	-0°11'15				
minimum elong	16246 Apr 22 05:44	14° 8 56'15	0°11'33	superior conj	16247 Apr 05 03:30	28° Ƴ 06′28	0°22'13
behind sun begin	16246 Apr 22 00:32	14° 8 32'42		minimum elong	16247 Apr 05 04:53	28° Ƴ 13′02	0°21'43
behind sun end	16246 Apr 22 10:56	15° 8 19'44			16247 Apr 06 03:25	$_{0\circ}$ 8	
max. Earth dist.	16246 Apr 29 20:47	28° 8 17'11	1.41314 AU	desc. node	16247 Apr 07 18:55	3° 8 05'13	
	16246 Apr 30 21:11	Π $^{\circ}0$		max. Earth dist.	16247 Apr 12 03:21	11° 8 00'34	1.39051 AU
evening rise	16246 May 04 13:26	6° Ⅱ 04'45		evening rise	16247 Apr 15 22:58	17° 8 40'24	
	16246 May 20 04:00	0 \circ \odot			16247 Apr 23 10:28	Π °0	
evening max el	16246 Jun 07 11:58	23° © 19'39	23°03'28		16247 May 14 13:39	0ං ම	
asc. node	16246 Jun 15 06:37	28° © 55'33		evening max el	16247 May 21 01:49	7° © 15'15	24°24'48
retrograde	16246 Jun 17 20:01	29° 5 23'38		retrograde	16247 Jun 01 13:08	13° © 57'38	
evening set	16246 Jun 22 21:57	27° © 14'13		asc. node	16247 Jun 02 03:39	13°956'05	
inferior conj	16246 Jun 28 05:32	20°\$50'10	2°58'54	evening set	16247 Jun 07 02:39	11° © 35'58	
minimum elong	16246 Jun 28 04:21	20° © 54'17	2°58'06	min. Earth dist.	16247 Jun 11 15:40	6° 5 22'45	0.68679 AU
min. Earth dist.	16246 Jun 27 19:53	21° 5 23'36	0.69122 AU	inferior conj	16247 Jun 12 14:17	5°506'41	2°39'36
morning rise	16246 Jul 03 10:38	14° 5 340'38		minimum elong	16247 Jun 12 12:25	5°512'57	2°38'32
				-			

	16247 Jun 16 20:46	30°R∏		minimum elong	16248 May 26 17:38	19° Ⅱ 26'32	2°08'04
morning rise	16247 Jun 17 22:17	29° Ⅱ 06'16		morning rise	16248 Jun 01 09:26	13° Ⅱ 29'36	
direct	16247 Jun 21 19:58	27° Ⅲ 39′10		direct	16248 Jun 04 20:08	12° Ⅱ 21'36	
	16247 Jun 27 06:41	0°ಲ		morning max el	16248 Jun 11 14:48	16° Ⅱ 01′08	18°56'07
morning max el	16247 Jun 29 08:17	1° © 50'36	19°52'59	desc. node	16248 Jun 20 15:59	27° Ⅲ 27'52	
desc. node	16247 Jul 04 18:52	8°908'06			16248 Jun 22 09:35	0°€	
	16247 Jul 20 00:27	$0^{\circ}\Omega$		greatest brilliancy	16248 Jun 24 21:59	3° © 45'51	-0.7m
morning set	16247 Jul 26 04:24	9° Ω 22'54		morning set	16248 Jul 04 13:21	18° © 33'59	
max. Earth dist.	16247 Aug 05 22:50	26° Ω 09'00	1.44789 AU		16248 Jul 11 22:21	0°N	
max. Earth dist.	16247 Aug 08 08:56	0°m	1.11707110	max. Earth dist.	16248 Jul 18 17:11		1.45769 AU
	10247 Aug 00 00.30	עווי ∨		max. Lattii dist.	10240 Jul 10 17.11	10 663337	1.43707 AO
superior conj	16247 Aug 11 02:03	4° mp 21'22	-1°59'15	superior conj	16248 Jul 20 19:04	13° Ω 49'11	-2°13'44
minimum elong	16247 Aug 11 09:25	4° m 51'09		minimum elong	16248 Jul 20 21:07	13° Ω 57'12	
evening rise	16247 Aug 24 13:39	26° Mp 43'41	1 37 03	minimum ciong	16248 Jul 31 00:18	0°m)	2 1413
evening rise	-	20 iių43 41 0° Ω				0 my 54'11	
,	16247 Aug 26 11:57			evening rise	16248 Aug 04 22:13	-	
asc. node	16247 Aug 29 04:01	4° £ 30'56	1000 410 7	asc. node	16248 Aug 15 00:43	24° Mp 05'04	
evening max el	16247 Sep 11 03:44	23° Ω 27'32	18°04'27		16248 Aug 18 23:35	0∘ ত	
retrograde	16247 Sep 17 13:04	26° ≏ 48'01		evening max el	16248 Aug 24 18:00	7° ჲ 08'02	18°24'07
evening set	16247 Sep 20 05:22	26° £ 11'00		retrograde	16248 Aug 31 03:57	10° ≏ 33'42	
inferior conj	16247 Sep 26 12:21	20° ≙ 54'01	1°14'35	evening set	16248 Sep 03 05:14	9° ≏ 41'41	
minimum elong	16247 Sep 26 14:15	20° ≏ 48'56	1°14'07	inferior conj	16248 Sep 09 00:58	4° ≏ 08'51	2°05'24
min. Earth dist.	16247 Sep 29 05:42	17° ≏ 59'33	0.62970 AU	minimum elong	16248 Sep 09 03:17	4° ♀ 01'57	2°04'43
desc. node	16247 Sep 30 16:12	16° ≏ 34'17		min. Earth dist.	16248 Sep 11 05:19	1° ഫ 33'58	0.65023 AU
morning rise	16247 Oct 02 20:54	14° ≏ 43'02			16248 Sep 12 15:11	30°₽.₩	
direct	16247 Oct 09 13:03	12° £ 15'13		morning rise	16248 Sep 14 23:57	27° m) 46'13	
morning max el	16247 Oct 23 12:37	20° £ 13'17	27°52'10	desc. node	16248 Sep 16 13:34	26° mp 38'57	
morning max er		0°M	27 32 10		•		
	16247 Oct 31 22:49			direct	16248 Sep 21 11:15	25° m 10'08	
	16247 Nov 20 01:04	0° ∡ 7			16248 Oct 01 16:18	0∘ ʊ	25012111
asc. node	16247 Nov 25 04:57	9° ₹ 50'14		morning max el	16248 Oct 04 23:34	3° ₾ 03'38	27°13'41
morning set	16247 Nov 26 23:51	13° ≯ 25'13			16248 Oct 25 07:06	0° M	
max. Earth dist.	16247 Dec 02 01:49	24° ₹ 03'48	1.31888 AU	morning set	16248 Nov 09 11:00	26° M 41'47	
				asc. node	16248 Nov 11 01:50	29°M52'53	
superior conj	16247 Dec 04 15:14	29° ⋌ ³37'32	1°17'22		16248 Nov 11 03:16	0° ∡ 7	
minimum elong	16247 Dec 04 13:01	29° х 25′25	1°17'47	max. Earth dist.	16248 Nov 13 19:31	5° ∡ ¹24'55	1.33192 AU
	16247 Dec 04 19:20	0°ප					
evening rise	16247 Dec 11 10:02	14° පි 30'34		superior conj	16248 Nov 17 18:53	13° ∡ ⁴44'20	0°58'17
Č	16247 Dec 19 00:31	0° ≈		minimum elong	16248 Nov 17 16:32	13° ∡ ³31'49	0°58'34
desc. node	16247 Dec 27 14:35	14° ≈ 16′09		evening rise	16248 Nov 24 20:35	28° ₹ 56'22	
evening max el	16248 Jan 04 17:22	24°≈00'28	23°57'52	evening rise	16248 Nov 25 08:33	0°る	
evening max er	16248 Jan 13 21:37	0°) €	23 37 32		16248 Dec 12 14:10	0° ≈	
		0°) 42'47		J J.			
retrograde	16248 Jan 18 05:47			desc. node	16248 Dec 13 11:32	1°≈03'51	2201.4110
	16248 Jan 22 16:08	30°R≈		evening max el	16248 Dec 16 03:37	3°≈55'17	22°14'19
evening set	16248 Jan 23 02:08	29° ≈ 51'50		retrograde	16248 Dec 28 19:29	10°≈10'58	
min. Earth dist.	16248 Jan 29 04:55	26° ≈ 52'43	0.55321 AU	evening set	16249 Jan 01 09:14	9° ≈ 42'46	
inferior conj	16248 Jan 31 01:48	25° ≈ 45'50	-5°34'48	inferior conj	16249 Jan 09 20:34	5° ≈ 51'10	
minimum elong	16248 Jan 31 09:20	25° ≈ 34'35	5°33'08	minimum elong	16249 Jan 09 19:59	5° ≈ 51'59	6°01'34
morning rise	16248 Feb 08 18:13	21° ≈ 49′15		min. Earth dist.	16249 Jan 09 10:28	6° ≈ 05'17	0.54464 AU
direct	16248 Feb 11 04:56	21° ≈ 34′05		morning rise	16249 Jan 18 07:41	2° ≈ 03'52	
asc. node	16248 Feb 21 03:17	26° ≈ 04'43		direct	16249 Jan 21 15:39	1° ≈ 39'07	
morning max el	16248 Feb 21 19:20	26°≈42'30	20°07'41	morning max el	16249 Feb 02 19:13	7° ≈ 31'26	21°38'22
C	16248 Feb 24 19:03	0°)		asc. node	16249 Feb 07 00:35	12° ≈ 13'53	
morning set	16248 Mar 10 20:47	26°) €03'17			16249 Feb 17 23:14	0°) €	
morning sec	16248 Mar 12 19:02	0°Υ		morning set	16249 Feb 23 06:33	10°) 45′38	
	102101111111217.02	• •		morning sec	10215100 25 00.55	10 /(1000	
superior conj	16248 Mar 18 14:18	11° Ƴ 49'09	0°50'00	superior conj	16249 Mar 02 11:14	25°) 57'38	1°11'29
minimum elong	16248 Mar 18 16:42	12° Υ 01'11	0°49'32	minimum elong	16249 Mar 02 13:42	26°) 10'31	
max. Earth dist.	16248 Mar 24 10:12	23° Υ 10'09	1.36783 AU		16249 Mar 04 10:01	20 γ 10 3 1	
desc. node		23° Υ 35'42	1.50/05 AU	max. Earth dist.		5° Υ 01'29	1.34721 AU
	16248 Mar 24 15:37				16249 Mar 06 21:28		1.34/21 AU
evening rise	16248 Mar 28 04:00	0° 8 04'32		evening rise	16249 Mar 11 01:05	13° Υ 07'17	
	16248 Mar 28 03:00	8°0		desc. node	16249 Mar 11 12:19	14°Υ00'29	
	16248 Apr 15 15:47	0°Щ			16249 Mar 20 12:22	0°8	
evening max el	16248 May 02 15:23	21° Ⅱ 09'27	25°40'10		16249 Apr 10 14:12	Π °0	
retrograde	16248 May 15 01:46	28° Ⅱ 19'53		evening max el	16249 Apr 15 05:08	4° Ⅱ 55'43	26°42'09
asc. node	16248 May 19 00:46	27° Ⅱ 16'30		retrograde	16249 Apr 28 09:10	12° Ⅱ 22'58	
evening set	16248 May 21 02:21	25° Ⅱ 50′00		evening set	16249 May 04 19:15	9° Ⅱ 50′11	
min. Earth dist.	16248 May 25 08:06	21° Ⅱ 13'34	0.67759 AU	asc. node	16249 May 05 21:56	8° Ⅱ 52'17	
inferior conj	16248 May 26 19:49	19° Ⅱ 19'32		min. Earth dist.	16249 May 08 19:08	5° Ⅱ 48'46	0.66386 AU
J							

inferior conj	16249 May 10 19:58	3° Ⅱ 23'53	1027100	inferior conj	16250 Apr 24 12:04	17° 8 12'43	0°31'42
minimum elong	16249 May 10 19:38	3° I I29'40	1°25'53	minimum elong	16250 Apr 24 11:12	17° 8 15'06	0°30'54
minimum ciong	16249 May 13 21:22	30°R 8	1 23 33	morning rise	16250 Apr 30 21:20	11° 8 48'39	0 30 34
morning rise	16249 May 16 17:59	27° 8 46'00		direct	16250 May 03 12:37	11° 8 12'41	
direct	16249 May 19 18:31	26° 8 55'22		morning max el	16250 May 09 20:12	14° 8 27'29	17°52'20
	16249 May 25 20:45	0°II		morning man vi	16250 May 20 23:29	0°II	17 0220
morning max el	16249 May 26 03:34	0° Ⅱ 16'13	18°15'43	desc. node	16250 May 25 10:00	7° Ⅱ 19'58	
desc. node	16249 Jun 07 13:02	17° Ⅱ 14'29		morning set	16250 May 27 05:05	10° Ⅱ 19'26	
morning set	16249 Jun 14 19:35	28° Ⅱ 47'57		Č	16250 Jun 08 04:58	0ං ම	
-	16249 Jun 15 13:39	0ಂತ					
				superior conj	16250 Jun 09 22:20	2°945'35	-1°45'03
superior conj	16249 Jun 30 04:13	23° © 02'48	-2°08'30	minimum elong	16250 Jun 09 13:44	2°511'15	1°44'56
minimum elong	16249 Jun 29 22:38	22°5541'02	2°08'57	max. Earth dist.	16250 Jun 14 09:34	9° © 50'01	1.45493 AU
max. Earth dist.	16249 Jul 01 13:45	25°513'35	1.46005 AU	evening rise	16250 Jun 25 19:41	27°531'28	
	16249 Jul 04 15:18	$0^{\circ}\Omega$			16250 Jun 27 10:36	$0^{\circ}\Omega$	
evening rise	16249 Jul 16 05:56	18° Ω 03'24		greatest brilliancy	16250 Jul 10 12:10	19° Ω 32'21	-0.6m
	16249 Jul 23 22:44	0° m			16250 Jul 18 03:38	0° m)	
greatest brilliancy	16249 Jul 26 18:51	4° Mp 20'23	-0.8m	asc. node	16250 Jul 19 18:16	1° m 57'21	
asc. node	16249 Aug 01 21:28	13° m 16'46		evening max el	16250 Jul 22 10:25	4° Mp 52′05	19°53'43
evening max el	16249 Aug 08 04:53	20° m 58'17	19°00'55	retrograde	16250 Jul 29 22:45	9° m)06'07	
retrograde	16249 Aug 15 00:08	24° Mp 42'08		evening set	16250 Aug 02 19:45	7° m 39'34	
evening set	16249 Aug 18 10:56	23°m/33'19		inferior conj	16250 Aug 08 03:04	1° m 40'39	2°59'56
inferior conj	16249 Aug 23 22:52	17° Mp 46'41	2°39'40	minimum elong	16250 Aug 08 04:15	1° m/36'40	2°59'24
minimum elong	16249 Aug 24 00:50	17° mp 40'24	2°39'04	min. Earth dist.	16250 Aug 09 03:39	0° m 17'43	0.68013 AU
min. Earth dist.	16249 Aug 25 13:19	15° Mp 43'43	0.66728 AU		16250 Aug 09 08:58	30°R€	
morning rise	16249 Aug 29 13:56	11° m) 19'44		morning rise	16250 Aug 13 12:17	25° Ω 14'52	
desc. node	16249 Sep 03 10:56	8° Mp 49'48		direct	16250 Aug 19 04:39	22° Ω 46'17	
direct	16249 Sep 04 16:52	8° Mp 43'44	2/000150	desc. node	16250 Aug 21 08:18	23° Ω 04'41	24047125
morning max el	16249 Sep 17 11:16	16° ™ 19'09 0° ≏	26°08'58	morning max el	16250 Aug 30 22:20	29° Ω 48'01	24°47'25
	16249 Sep 28 20:04 16249 Oct 18 04:03	0° M			16250 Aug 31 03:03	0 ்⊽ 0 ்ம்	
morning set	16249 Oct 18 04.03 16249 Oct 23 09:21	9°M23'21		morning set	16250 Sep 22 16:05 16250 Oct 05 14:56	0 <u>₽</u> 21° ₽ 20'35	
max. Earth dist.	16249 Oct 27 03:32	16°M31'06	1.35018 AU	max. Earth dist.	16250 Oct 09 03:42	21 = 20 33 27° £ 40'19	1.37242 AU
asc. node	16249 Oct 28 22:41	20°M02'23	1.33018 AU	max. Earth dist.	16250 Oct 10 10:06	0°ML	1.37242 AU
asc. node	1024) Oct 20 22.41	20 11602 23		asc. node	16250 Oct 15 19:27	10°ML14'23	
superior conj	16249 Nov 01 15:20	27°ML28'57	0°33'06	ase. node	10230 Oct 13 17.27	10 1101423	
minimum elong	16249 Nov 01 13:36	27°M20'00	0°33'20	superior conj	16250 Oct 16 01:27	10°M43'42	0°02'16
	16249 Nov 02 20:42	0° ∡ ¹		minimum elong	16250 Oct 16 01:17	10°ML42'50	0°02'38
	10249 NOV UZ ZU.4Z						
evening rise	16249 Nov 09 05:10	13° ⋌ 15'58		behind sun begin	16250 Oct 15 18:44	10°M10'55	
evening rise				behind sun begin behind sun end	16250 Oct 15 18:44 16250 Oct 16 07:49	10°M10'55 11°M14'49	
evening rise evening max el	16249 Nov 09 05:10	13° ∡ 15'58	20°41'33	Č			
-	16249 Nov 09 05:10 16249 Nov 17 18:26	13° 渘 15'58 0°る	20°41'33	behind sun end	16250 Oct 16 07:49	11° M L14'49	
evening max el	16249 Nov 09 05:10 16249 Nov 17 18:26 16249 Nov 27 22:58	13° メ 15'58 0°る 14°る14'03	20°41'33	behind sun end	16250 Oct 16 07:49 16250 Oct 24 09:27	11°M14'49 27°M23'29	19°29'06
evening max el desc. node	16249 Nov 09 05:10 16249 Nov 17 18:26 16249 Nov 27 22:58 16249 Nov 30 08:34	13° メ 15'58 0°る 14°る14'03 16°る22'02	20°41'33	behind sun end evening rise	16250 Oct 16 07:49 16250 Oct 24 09:27 16250 Oct 25 16:39	11°M14'49 27°M23'29 0° 🗷	19°29'06
evening max el desc. node retrograde	16249 Nov 09 05:10 16249 Nov 17 18:26 16249 Nov 27 22:58 16249 Nov 30 08:34 16249 Dec 09 05:32	13°\$\begin{align*} 15'58 0°\$\begin{align*} 14'\$314'03 16°\$\begin{align*} 22'02 19°\$\begin{align*} 49'47		behind sun end evening rise evening max el	16250 Oct 16 07:49 16250 Oct 24 09:27 16250 Oct 25 16:39 16250 Nov 10 08:50	11°M14'49 27°M23'29 0°⊀ 25°⊀20'47	19°29'06
evening max el desc. node retrograde evening set	16249 Nov 09 05:10 16249 Nov 17 18:26 16249 Nov 27 22:58 16249 Nov 30 08:34 16249 Dec 09 05:32 16249 Dec 11 16:37	13° オ15'58 0° 云 14° 云14'03 16° 云22'02 19° 云49'47 19° 云34'59	-5°28'17	behind sun end evening rise evening max el	16250 Oct 16 07:49 16250 Oct 24 09:27 16250 Oct 25 16:39 16250 Nov 10 08:50 16250 Nov 17 05:39	11°M14'49 27°M23'29 0°×7 25°×720'47 29°×746'51	19°29'06
evening max el desc. node retrograde evening set inferior conj	16249 Nov 09 05:10 16249 Nov 17 18:26 16249 Nov 27 22:58 16249 Nov 30 08:34 16249 Dec 09 05:32 16249 Dec 11 16:37 16249 Dec 20 11:39	13° \$\frac{1}{3}\$\text{15'58}} 0° \frac{1}{3}\$\text{14'03}} 16° \frac{2}{3}2'02} 19° \frac{3}{4}9'47} 19° \frac{3}{3}4'59} 15° \frac{3}{4}2'16	-5°28'17	behind sun end evening rise evening max el desc. node	16250 Oct 16 07:49 16250 Oct 24 09:27 16250 Oct 25 16:39 16250 Nov 10 08:50 16250 Nov 17 05:39 16250 Nov 18 04:05	11°M14'49 27°M23'29 0°⊀ 25°⊀20'47 29°⊀46'51 0°♂	19°29'06
evening max el desc. node retrograde evening set inferior conj minimum elong	16249 Nov 09 05:10 16249 Nov 17 18:26 16249 Nov 27 22:58 16249 Nov 30 08:34 16249 Dec 09 05:32 16249 Dec 11 16:37 16249 Dec 20 11:39 16249 Dec 20 03:03	13° ズ15'58 0° で 14° で14'03 16° で22'02 19° で49'47 19° で34'59 15° で42'16 15° で54'39 15° で501'31 11° で46'16	-5°28'17 5°25'58	behind sun end evening rise evening max el desc. node retrograde	16250 Oct 16 07:49 16250 Oct 24 09:27 16250 Oct 25 16:39 16250 Nov 10 08:50 16250 Nov 17 05:39 16250 Nov 18 04:05 16250 Nov 20 00:05	11°M14'49 27°M23'29 0° ₹ 25° ₹'20'47 29° ₹'46'51 0° ₹ 10'09 29° ₹'59'15 30° ₹ ₹	
evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist.	16249 Nov 09 05:10 16249 Nov 17 18:26 16249 Nov 27 22:58 16249 Nov 30 08:34 16249 Dec 09 05:32 16249 Dec 11 16:37 16249 Dec 20 11:39 16249 Dec 20 03:03 16249 Dec 21 15:53	13° ズ15'58 0° で 14° で14'03 16° で22'02 19° で49'47 19° で34'59 15° で54'39 15° で501'31 11° で46'16 11° で04'18	-5°28'17 5°25'58 0.54530 AU	behind sun end evening rise evening max el desc. node retrograde evening set inferior conj	16250 Oct 16 07:49 16250 Oct 24 09:27 16250 Oct 25 16:39 16250 Nov 10 08:50 16250 Nov 17 05:39 16250 Nov 18 04:05 16250 Nov 20 00:05 16250 Nov 21 22:45	11°M14'49 27°M23'29 0°ズ 25°ズ20'47 29°ズ46'51 0°る 0°る10'09 29°ズ59'15	
evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	16249 Nov 09 05:10 16249 Nov 17 18:26 16249 Nov 27 22:58 16249 Nov 30 08:34 16249 Dec 09 05:32 16249 Dec 11 16:37 16249 Dec 20 11:39 16249 Dec 20 03:03 16249 Dec 21 15:53 16249 Dec 28 13:21	13° ズ15'58 0° で 14°で14'03 16°で22'02 19°で49'47 19°で34'59 15°で54'39 15°で501'31 11°で46'16 11°で04'18 17°で35'43	-5°28'17 5°25'58 0.54530 AU	behind sun end evening rise evening max el desc. node retrograde evening set	16250 Oct 16 07:49 16250 Oct 24 09:27 16250 Oct 25 16:39 16250 Nov 10 08:50 16250 Nov 17 05:39 16250 Nov 18 04:05 16250 Nov 20 00:05 16250 Nov 21 22:45 16250 Nov 21 21:06	11° 11.14'49 27° 11.23'29 0° ₹ 25° ₹20'47 29° ₹46'51 0° ₹50'09 29° ₹59'15 30° ₹₹ 25° ₹53'35 26° ₹08'57	
evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	16249 Nov 09 05:10 16249 Nov 17 18:26 16249 Nov 27 22:58 16249 Nov 30 08:34 16249 Dec 09 05:32 16249 Dec 11 16:37 16249 Dec 20 11:39 16249 Dec 20 03:03 16249 Dec 21 15:53 16249 Dec 28 13:21 16250 Jan 01 23:21 16250 Jan 15 07:06 16250 Jan 24 21:52	13° \$\times 15'58 0° \$\times 14'03 16° \$\times 22'02 19° \$\times 49'47 19° \$\times 34'59 15° \$\times 42'16 15° \$\times 54'39 15° \$\times 01'31 11° \$\times 46'16 11° \$\times 04'18 17° \$\times 35'43 29° \$\times 33'33	-5°28'17 5°25'58 0.54530 AU	behind sun end evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist.	16250 Oct 16 07:49 16250 Oct 24 09:27 16250 Oct 25 16:39 16250 Nov 10 08:50 16250 Nov 17 05:39 16250 Nov 18 04:05 16250 Nov 20 00:05 16250 Nov 21 22:45 16250 Nov 21 21:06 16250 Nov 30 13:36 16250 Nov 30 04:03 16250 Dec 03 00:21	11° M.14'49 27° M.23'29 0° ♂ 25° ♂20'47 29° ♂46'51 0° ♂ 0° ♂ 10'09 29° ♂ 59'15 30° R.♂ 25° ♂ 53'35 26° ♂ 08'57 24° ♂ 19'08	-4°04'52
evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	16249 Nov 09 05:10 16249 Nov 17 18:26 16249 Nov 27 22:58 16249 Nov 30 08:34 16249 Dec 09 05:32 16249 Dec 11 16:37 16249 Dec 20 11:39 16249 Dec 20 03:03 16249 Dec 21 15:53 16249 Dec 28 13:21 16250 Jan 01 23:21 16250 Jan 15 07:06 16250 Jan 24 21:52 16250 Jan 25 04:46	13° ズ15'58 0° 云 14° 云14'03 16° 云22'02 19° 云49'47 19° 云34'59 15° 云42'16 15° 云54'39 15° 云01'31 11° 云46'16 11° 云04'18 17° 云35'43 29° 云33'33 0° 無	-5°28'17 5°25'58 0.54530 AU	behind sun end evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	16250 Oct 16 07:49 16250 Oct 24 09:27 16250 Oct 25 16:39 16250 Nov 10 08:50 16250 Nov 17 05:39 16250 Nov 18 04:05 16250 Nov 20 00:05 16250 Nov 21 22:45 16250 Nov 21 21:06 16250 Nov 30 13:36 16250 Nov 30 04:03 16250 Dec 03 00:21 16250 Dec 08 07:22	11° M 14'49 27° M 23'29 0° ♂ 25° ♂ 20'47 29° ♂ 46'51 0° ♂ 0° ♂ 10'09 29° ♂ 59'15 30° R ♂ 25° ♂ 53'35 26° ♂ 08'57 24° ♂ 19'08 21° ♂ 30'46	-4°04'52 4°01'04
evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	16249 Nov 09 05:10 16249 Nov 17 18:26 16249 Nov 27 22:58 16249 Nov 30 08:34 16249 Dec 09 05:32 16249 Dec 11 16:37 16249 Dec 20 11:39 16249 Dec 20 03:03 16249 Dec 21 15:53 16249 Dec 28 13:21 16250 Jan 01 23:21 16250 Jan 15 07:06 16250 Jan 24 21:52 16250 Jan 25 04:46 16250 Feb 07 18:15	13° ズ15'58 0° 云 14° 云14'03 16° 云22'02 19° 云49'47 19° 云34'59 15° 云42'16 15° 云54'39 15° 云01'31 11° 云46'16 11° 云04'18 17° 云35'43 29° 云33'33 0° 無 25° ※29'14	-5°28'17 5°25'58 0.54530 AU	behind sun end evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	16250 Oct 16 07:49 16250 Oct 24 09:27 16250 Oct 25 16:39 16250 Nov 10 08:50 16250 Nov 17 05:39 16250 Nov 18 04:05 16250 Nov 20 00:05 16250 Nov 21 22:45 16250 Nov 21 21:06 16250 Nov 30 13:36 16250 Nov 30 04:03 16250 Dec 03 00:21 16250 Dec 08 07:22 16250 Dec 13 16:45	11°M14'49 27°M23'29 0°ズ 25°ズ20'47 29°ズ46'51 0°舌 0°舌10'09 29°ズ59'15 30°Rズ 25°ズ53'35 26°ズ08'57 24°ズ19'08 21°ズ30'46 20°ズ25'18	-4°04'52 4°01'04 0.55515 AU
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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	16249 Nov 09 05:10 16249 Nov 17 18:26 16249 Nov 27 22:58 16249 Nov 30 08:34 16249 Dec 09 05:32 16249 Dec 11 16:37 16249 Dec 20 11:39 16249 Dec 20 03:03 16249 Dec 21 15:53 16249 Dec 28 13:21 16250 Jan 01 23:21 16250 Jan 15 07:06 16250 Jan 24 21:52 16250 Jan 25 04:46 16250 Feb 07 18:15 16250 Feb 09 20:30 16250 Feb 14 15:12 16250 Feb 14 17:06 16250 Feb 14 17:06 16250 Feb 17 15:52 16250 Feb 22 10:45 16250 Feb 24 03:31 16250 Feb 26 08:59 16250 Mar 13 20:19	13° \$\times 15'58 0° \$\times 14'03 16° \$\times 22'02 19° \$\times 49'47 19° \$\times 34'59 15° \$\times 42'16 15° \$\times 54'39 15° \$\times 01'31 11° \$\times 64'18 17° \$\times 35'43 29° \$\times 33'33 0° \$\times 25° \$\times 29'14 0° \$\times 10° \$\times 33'25 16° \$\times 51'07 26° \$\times 39'53 0° \$\times 40' \$\times 15'06 0° \$\times 60' \$\times 15'06	-5°28'17 5°25'58 0.54530 AU 23°25'24 1°26'35 1°26'42 1.33041 AU	behind sun end 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	16250 Oct 16 07:49 16250 Oct 24 09:27 16250 Oct 25 16:39 16250 Nov 10 08:50 16250 Nov 17 05:39 16250 Nov 18 04:05 16250 Nov 20 00:05 16250 Nov 21 22:45 16250 Nov 21 21:06 16250 Nov 30 13:36 16250 Nov 30 04:03 16250 Dec 03 00:21 16250 Dec 08 07:22 16250 Dec 13 16:45 16250 Dec 27 15:37 16250 Dec 30 03:25 16251 Jan 11 19:05 16251 Jan 23 06:04 16251 Jan 29 23:42 16251 Jan 30 00:42 16251 Jan 30 00:42 16251 Jan 31 17:27	11° M 14'49 27° M 23'29 0° ズ 25° ズ 20'47 29° ズ 46'51 0° 云 0° 云 10'09 29° ズ 59'15 30° R ズ 25° ズ 53'35 26° ズ 08'57 24° ズ 19'08 21° ズ 30'46 20° ズ 25'18 27° ズ 27'09 0° 云 17° 云 47'00 0° ※ 10° ※ 09'11 24° ※ 58'44 25° ※ 04'15 28° ※ 48'32	-4°04'52 4°01'04 0.55515 AU 25°13'43
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	16249 Nov 09 05:10 16249 Nov 17 18:26 16249 Nov 27 22:58 16249 Nov 30 08:34 16249 Dec 09 05:32 16249 Dec 11 16:37 16249 Dec 20 11:39 16249 Dec 20 03:03 16249 Dec 21 15:53 16249 Dec 28 13:21 16250 Jan 01 23:21 16250 Jan 15 07:06 16250 Jan 24 21:52 16250 Jan 25 04:46 16250 Feb 07 18:15 16250 Feb 14 15:12 16250 Feb 14 17:06 16250 Feb 14 17:06 16250 Feb 14 17:06 16250 Feb 22 10:45 16250 Feb 24 03:31 16250 Feb 26 08:59 16250 Mar 13 20:19 16250 Mar 28 18:20	13° \$\times 15'58 0° \$\times 14'03 16° \$\times 22'02 19° \$\times 49'47 19° \$\times 34'59 15° \$\times 42'16 15° \$\times 54'39 15° \$\times 01'31 11° \$\times 64'18 11° \$\times 04'18 17° \$\times 35'43 29° \$\times 33'33 0° \$\times 25° \$\times 29'14 0° \$\times 10° \$\times 23'07 10° \$\times 33'25 16° \$\times 51'07 26° \$\times 39'53 0° \$\times 40'\$ 4° \$\times 15'06 0° \$\times 18° \$\times 23'38	-5°28'17 5°25'58 0.54530 AU 23°25'24 1°26'35 1°26'42 1.33041 AU	behind sun end 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.	16250 Oct 16 07:49 16250 Oct 24 09:27 16250 Oct 25 16:39 16250 Nov 10 08:50 16250 Nov 17 05:39 16250 Nov 18 04:05 16250 Nov 20 00:05 16250 Nov 21 22:45 16250 Nov 21 21:06 16250 Nov 30 13:36 16250 Nov 30 04:03 16250 Dec 03 00:21 16250 Dec 08 07:22 16250 Dec 13 16:45 16250 Dec 27 15:37 16250 Dec 30 03:25 16251 Jan 11 19:05 16251 Jan 23 06:04 16251 Jan 29 23:42 16251 Jan 30 00:42 16251 Jan 31 17:27 16251 Feb 01 06:32	11°M14'49 27°M23'29 0°ズ 25°ズ20'47 29°ズ46'51 0°云 0°云10'09 29°ズ59'15 30°Rズ 25°ズ53'35 26°ズ08'57 24°ズ19'08 21°ズ30'46 20°ズ25'18 27°ズ27'09 0°云 17°云47'00 0°≈ 10°≈09'11 24°≈58'44 25°≈04'15	-4°04'52 4°01'04 0.55515 AU 25°13'43 1°35'26 1°35'50
evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	16249 Nov 09 05:10 16249 Nov 17 18:26 16249 Nov 27 22:58 16249 Nov 30 08:34 16249 Dec 09 05:32 16249 Dec 11 16:37 16249 Dec 20 11:39 16249 Dec 20 03:03 16249 Dec 21 15:53 16249 Dec 28 13:21 16250 Jan 01 23:21 16250 Jan 15 07:06 16250 Jan 25 04:46 16250 Feb 07 18:15 16250 Feb 09 20:30 16250 Feb 14 15:12 16250 Feb 14 17:06 16250 Feb 14 17:06 16250 Feb 22 10:45 16250 Feb 24 03:31 16250 Feb 26 08:59 16250 Mar 13 20:19 16250 Mar 28 18:20 16250 Apr 11 10:20	13° \$\times 15'58 0° \$\times 14'03 16° \$\times 22'02 19° \$\times 49'47 19° \$\times 34'59 15° \$\times 42'16 15° \$\times 54'39 15° \$\times 01'31 11° \$\times 64'18 17° \$\times 35'43 29° \$\times 33'33 0° \$\times 25° \$\times 29'14 0° \$\times 10° \$\times 33'25 16° \$\times 51'07 26° \$\times 39'53 0° \$\times 40' \$\times 15'06 0° \$\times 60' \$\times 15'06	-5°28'17 5°25'58 0.54530 AU 23°25'24 1°26'35 1°26'42 1.33041 AU	behind sun end 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	16250 Oct 16 07:49 16250 Oct 24 09:27 16250 Oct 25 16:39 16250 Nov 10 08:50 16250 Nov 17 05:39 16250 Nov 18 04:05 16250 Nov 20 00:05 16250 Nov 21 22:45 16250 Nov 21 21:06 16250 Nov 30 13:36 16250 Nov 30 04:03 16250 Dec 03 00:21 16250 Dec 08 07:22 16250 Dec 13 16:45 16250 Dec 27 15:37 16250 Dec 30 03:25 16251 Jan 11 19:05 16251 Jan 23 06:04 16251 Jan 29 23:42 16251 Jan 30 00:42 16251 Jan 30 00:42 16251 Jan 31 17:27	11°M14'49 27°M23'29 0°ズ 25°ズ20'47 29°ズ46'51 0°云 0°云10'09 29°ズ59'15 30°Rズ 25°ズ953'35 26°ズ08'57 24°ズ19'08 21°ズ30'46 20°ズ25'18 27°ズ27'09 0°云 17°云47'00 0°≈ 10°≈09'11 24°≈58'44 25°≈04'15 28°≈48'32 0°兴 10°米35'12	-4°04'52 4°01'04 0.55515 AU 25°13'43 1°35'26 1°35'50
evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	16249 Nov 09 05:10 16249 Nov 17 18:26 16249 Nov 27 22:58 16249 Nov 30 08:34 16249 Dec 09 05:32 16249 Dec 11 16:37 16249 Dec 20 11:39 16249 Dec 20 03:03 16249 Dec 21 15:53 16249 Dec 28 13:21 16250 Jan 01 23:21 16250 Jan 15 07:06 16250 Jan 24 21:52 16250 Jan 25 04:46 16250 Feb 07 18:15 16250 Feb 09 20:30 16250 Feb 14 15:12 16250 Feb 14 17:06 16250 Feb 14 17:06 16250 Feb 22 10:45 16250 Feb 24 03:31 16250 Feb 26 08:59 16250 Mar 13 20:19 16250 Mar 28 18:20 16250 Apr 11 10:20 16250 Apr 18 03:08	13° \$\times 15'58 0° \$\times 14'03 16° \$\times 22'02 19° \$\times 49'47 19° \$\times 34'59 15° \$\times 42'16 15° \$\times 54'39 15° \$\times 01'31 11° \$\times 46'16 11° \$\times 04'18 17° \$\times 35'43 29° \$\times 33'33 0° \$\times 25° \$\times 29'14 0° \$\times 10° \$\times 23'07 10° \$\times 33'25 16° \$\times 51'07 26° \$\times 39'53 0° \$\times 100'\$ 18° \$\times 23'38 25° \$\times 56'50	-5°28'17 5°25'58 0.54530 AU 23°25'24 1°26'35 1°26'42 1.33041 AU	behind sun end 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.	16250 Oct 16 07:49 16250 Oct 24 09:27 16250 Oct 25 16:39 16250 Nov 10 08:50 16250 Nov 17 05:39 16250 Nov 18 04:05 16250 Nov 20 00:05 16250 Nov 21 22:45 16250 Nov 21 21:06 16250 Nov 30 13:36 16250 Nov 30 04:03 16250 Dec 03 00:21 16250 Dec 08 07:22 16250 Dec 13 16:45 16250 Dec 27 15:37 16250 Dec 30 03:25 16251 Jan 11 19:05 16251 Jan 23 06:04 16251 Jan 29 23:42 16251 Jan 30 00:42 16251 Jan 31 17:27 16251 Feb 01 06:32 16251 Feb 06 06:01	11° M 14'49 27° M 23'29 0° ズ 25° ズ 20'47 29° ズ 46'51 0° 云 0° 云 10'09 29° ズ 59'15 30° R ズ 25° ズ 53'35 26° ズ 08'57 24° ズ 19'08 21° ズ 30'46 20° ズ 25'18 27° ズ 27'09 0° 云 17° 云 47'00 0° ※ 10° ※ 09'11 24° ※ 58'44 25° ※ 04'15 28° ※ 48'32 0° 光	-4°04'52 4°01'04 0.55515 AU 25°13'43 1°35'26 1°35'50
evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	16249 Nov 09 05:10 16249 Nov 17 18:26 16249 Nov 27 22:58 16249 Nov 30 08:34 16249 Dec 09 05:32 16249 Dec 11 16:37 16249 Dec 20 11:39 16249 Dec 20 03:03 16249 Dec 21 15:53 16249 Dec 28 13:21 16250 Jan 01 23:21 16250 Jan 15 07:06 16250 Jan 25 04:46 16250 Feb 07 18:15 16250 Feb 09 20:30 16250 Feb 14 15:12 16250 Feb 14 17:06 16250 Feb 14 17:06 16250 Feb 22 10:45 16250 Feb 24 03:31 16250 Feb 26 08:59 16250 Mar 13 20:19 16250 Mar 28 18:20 16250 Apr 11 10:20	13° \$\times 15'58 0° \$\times 14'03 16° \$\times 22'02 19° \$\times 49'47 19° \$\times 34'59 15° \$\times 42'16 15° \$\times 54'39 15° \$\times 01'31 11° \$\times 46'16 11° \$\times 35'43 29° \$\times 25'14 0° \$\times 10° \$\t	-5°28'17 5°25'58 0.54530 AU 23°25'24 1°26'35 1°26'42 1.33041 AU	behind sun end 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.	16250 Oct 16 07:49 16250 Oct 24 09:27 16250 Oct 25 16:39 16250 Nov 10 08:50 16250 Nov 17 05:39 16250 Nov 18 04:05 16250 Nov 20 00:05 16250 Nov 21 22:45 16250 Nov 21 21:06 16250 Nov 30 13:36 16250 Nov 30 04:03 16250 Dec 03 00:21 16250 Dec 08 07:22 16250 Dec 13 16:45 16250 Dec 27 15:37 16250 Dec 30 03:25 16251 Jan 11 19:05 16251 Jan 23 06:04 16251 Jan 29 23:42 16251 Jan 30 00:42 16251 Jan 31 17:27 16251 Feb 01 06:32 16251 Feb 01 06:32 16251 Feb 06 06:01 16251 Feb 13 05:40	11°M14'49 27°M23'29 0°ズ 25°ズ20'47 29°ズ46'51 0°G 0°G10'09 29°ズ59'15 30°Rズ 25°ズ8'53'35 26°ズ08'57 24°ズ19'08 21°ズ30'46 20°ズ25'18 27°ズ27'09 0°G 17°G47'00 0°≈ 10°≈09'11 24°≈58'44 25°≈04'15 28°≈48'32 0°升 10°米35'12 24°米14'40	-4°04'52 4°01'04 0.55515 AU 25°13'43 1°35'26 1°35'50

	16251 Mar 11 05:29	1° 8 22'08	27927120		1/252 Mar. 0/ 12-50	20° ℃ 57'51	
evening max el			27 30 28	retrograde	16252 Mar 06 12:50	20 γ 57 51 18° γ 59'09	
retrograde	16251 Mar 25 04:08	8° 8 51'45		evening set	16252 Mar 13 05:22		0.60207.444
evening set	16251 Mar 31 23:30	6° 8 34'23	0.60500 477	min. Earth dist.	16252 Mar 17 02:20	16° Υ 14'13	0.60297 AU
min. Earth dist.	16251 Apr 04 17:43	_	0.62539 AU	inferior conj	16252 Mar 20 07:24	13° Y 31'13	
inferior conj	16251 Apr 07 17:05	0° 8 38'30		minimum elong	16252 Mar 20 11:55	13° Y ′21′39	1°58'52
minimum elong	16251 Apr 07 18:21	0° 8 35'26	0°37'35	asc. node	16252 Mar 26 13:45	9° Y 10'44	
	16251 Apr 08 09:04	30° Ŗ ♈		morning rise	16252 Mar 27 21:56	8° Y '42'23	
asc. node	16251 Apr 09 16:26	28° Ƴ 47'19		direct	16252 Mar 29 23:20	8° Y 25′23	
morning rise	16251 Apr 14 16:10	25° Ƴ 30'39		morning max el	16252 Apr 06 05:04	12° Y ′02'26	17°59'00
direct	16251 Apr 16 23:31	25° Y 05'56			16252 Apr 18 05:30	9° 8	
morning max el	16251 Apr 23 13:49		17°46'27	morning set	16252 Apr 21 18:56	6° 8 29'08	
	16251 Apr 25 01:11	9° 8		desc. node	16252 Apr 28 03:41	18° 8 05'39	
morning set	16251 May 09 14:50	22° 8 59'12					
desc. node	16251 May 12 06:53	27° 8 38'44		superior conj	16252 May 02 03:14	25° 8 09'53	-0°32'25
	16251 May 13 15:25	Π \circ 0		minimum elong	16252 May 02 00:27	24° 8 57'40	0°32'31
					16252 May 04 22:12	$\Pi^{\circ}0$	
superior conj	16251 May 21 13:06	13° Ⅱ 26′03	-1°10'25	max. Earth dist.	16252 May 09 16:02	7° Ⅱ 59'20	1.42522 AU
minimum elong	16251 May 21 06:36	12° Ⅱ 59'01	1°10'12	evening rise	16252 May 15 08:06	17° Ⅲ 10'43	
max. Earth dist.	16251 May 28 02:45	24° Ⅱ 09'27	1.44294 AU		16252 May 23 15:08	0°€	
	16251 May 31 19:03	0ංම			16252 Jun 14 15:17	$0^{\circ}\Omega$	
evening rise	16251 Jun 05 07:20	7° © 01'31		evening max el	16252 Jun 17 04:05	2° Ω 41'22	22°16'58
C	16251 Jun 20 17:24	$0^{\circ}\Omega$		asc. node	16252 Jun 22 11:59	6° Ω 59'49	
evening max el	16251 Jul 05 09:55	18°Ω46'45	21°00'18	retrograde	16252 Jun 26 19:23	8° Ω 19'22	
asc. node	16251 Jul 06 15:05	19° Ω 56'16	21 00 10	evening set	16252 Jul 01 14:45	6°Ω18'23	
retrograde	16251 Jul 13 21:42	23°Ω40'17		inferior conj	16252 Jul 06 20:56	29°\$59'03	3°05'17
evening set	16251 Jul 18 05:36	21°Ω55'59		minimum elong	16252 Jul 06 20:14	0°Ω01'29	3°04'35
inferior conj	16251 Jul 23 11:06	15° Ω 46'07	3°08'04	minimum clong	16252 Jul 06 20:40	30°R95	3 0433
minimum elong	16251 Jul 23 11:21	15° Ω 45'16	3°07'31	min. Earth dist.	16252 Jul 06 18:46	0°Ω06'36	0.69158 AU
min. Earth dist.	16251 Jul 23 22:11	15° Ω 07'41	0.68832 AU	morning rise	16252 Jul 12 01:33	23° © 45'06	0.09138 AU
	16251 Jul 28 16:49	9° Ω 25'06	0.08632 AU	direct	16252 Jul 16 17:56	23 34 3 00 21° 9 47'24	
morning rise		9 δ l 23 06 7° Ω 09'57		desc. node		26°\$20'51	
direct	16251 Aug 02 21:25				16252 Jul 25 02:55		21951120
desc. node	16251 Aug 08 05:38	9° Ω 02'57	22010140	morning max el	16252 Jul 25 23:20	27°©10'35	21°51′30
morning max el	16251 Aug 13 09:28	13° Ω 24'56	23°18'40		16252 Jul 28 14:34	0° N	
	16251 Aug 26 19:20	0° m/			16252 Aug 19 08:12	0° m)	
	16251 Sep 15 12:53	0∘ ⊽		morning set	16252 Aug 27 08:24	12° Tp 26'34	
morning set	16251 Sep 16 23:29	2° £ 23'22		max. Earth dist.	16252 Sep 02 05:51	22° m/00'18	1.41972 AU
max. Earth dist.							
	16251 Sep 21 02:23	9° ≏ 23'08	1.39657 AU		16252 Sep 06 23:53	0∘ ⊽	
	-				-		
superior conj	16251 Sep 28 21:22	23° £ 19'17	-0°33'01	superior conj	16252 Sep 09 22:44	5° ჲ 06'16	
superior conj minimum elong	16251 Sep 28 21:22 16251 Sep 28 23:50	23° £ 19'17 23° £ 30'44	-0°33'01	minimum elong	16252 Sep 09 22:44 16252 Sep 10 04:28	5° ჲ 06'16 5° ჲ 31'20	
minimum elong	16251 Sep 28 21:22 16251 Sep 28 23:50 16251 Oct 02 10:51	23° ⊆ 19'17 23° ⊆ 30'44 0° ™	-0°33'01	minimum elong asc. node	16252 Sep 09 22:44 16252 Sep 10 04:28 16252 Sep 18 12:51	5° ჲ 06′16 5° ჲ 31′20 20° ჲ 31′33	
minimum elong	16251 Sep 28 21:22 16251 Sep 28 23:50 16251 Oct 02 10:51 16251 Oct 02 16:10	23° Ω 19'17 23° Ω 30'44 0° M 0° M 25'15	-0°33'01	minimum elong	16252 Sep 09 22:44 16252 Sep 10 04:28 16252 Sep 18 12:51 16252 Sep 20 17:11	5° Ω 06'16 5° Ω 31'20 20° Ω 31'33 24° Ω 31'59	
minimum elong	16251 Sep 28 21:22 16251 Sep 28 23:50 16251 Oct 02 10:51 16251 Oct 02 16:10 16251 Oct 08 06:39	23° № 19'17 23° № 30'44 0° № 0° № 25'15 11° № 11'40	-0°33'01	minimum elong asc. node evening rise	16252 Sep 09 22:44 16252 Sep 10 04:28 16252 Sep 18 12:51 16252 Sep 20 17:11 16252 Sep 23 16:45	5° \overline{0}06'16 5° \overline{0}31'20 20° \overline{0}31'33 24° \overline{0}31'59 0° \overline{0}	1°09'08
minimum elong asc. node evening rise	16251 Sep 28 21:22 16251 Sep 28 23:50 16251 Oct 02 10:51 16251 Oct 02 16:10 16251 Oct 08 06:39 16251 Oct 18 16:48	23° Ω 19'17 23° Ω 30'44 0° M 0° M 25'15	-0°33'01 0°32'22	minimum elong asc. node evening rise evening max el	16252 Sep 09 22:44 16252 Sep 10 04:28 16252 Sep 18 12:51 16252 Sep 20 17:11 16252 Sep 23 16:45 16252 Oct 06 16:27	5° Ω 06'16 5° Ω 31'20 20° Ω 31'33 24° Ω 31'59	
minimum elong	16251 Sep 28 21:22 16251 Sep 28 23:50 16251 Oct 02 10:51 16251 Oct 02 16:10 16251 Oct 08 06:39	23° № 19'17 23° № 30'44 0° № 0° № 25'15 11° № 11'40	-0°33'01	minimum elong asc. node evening rise evening max el retrograde	16252 Sep 09 22:44 16252 Sep 10 04:28 16252 Sep 18 12:51 16252 Sep 20 17:11 16252 Sep 23 16:45	5° \overline{0}06'16 5° \overline{0}31'20 20° \overline{0}31'33 24° \overline{0}31'59 0° \overline{0}	1°09'08
minimum elong asc. node evening rise	16251 Sep 28 21:22 16251 Sep 28 23:50 16251 Oct 02 10:51 16251 Oct 02 16:10 16251 Oct 08 06:39 16251 Oct 18 16:48	23° Ω 19'17 23° Ω 30'44 0° M . 0° M .25'15 11° M .11'40 0° X	-0°33'01 0°32'22	minimum elong asc. node evening rise evening max el	16252 Sep 09 22:44 16252 Sep 10 04:28 16252 Sep 18 12:51 16252 Sep 20 17:11 16252 Sep 23 16:45 16252 Oct 06 16:27	5° \(\Omega\) 06'16 5° \(\Omega\) 31'20 20° \(\Omega\) 31'59 0° \(\Omega\) 19° \(\Omega\) 54'55	1°09'08
minimum elong asc. node evening rise evening max el	16251 Sep 28 21:22 16251 Sep 28 23:50 16251 Oct 02 10:51 16251 Oct 02 16:10 16251 Oct 08 06:39 16251 Oct 18 16:48 16251 Oct 24 07:58	23° № 19'17 23° № 30'44 0° M. 0° M.25'15 11° M.11'40 0° ♂ 7° ♂ 16'56	-0°33'01 0°32'22	minimum elong asc. node evening rise evening max el retrograde	16252 Sep 09 22:44 16252 Sep 10 04:28 16252 Sep 18 12:51 16252 Sep 20 17:11 16252 Sep 23 16:45 16252 Oct 06 16:27 16252 Oct 13 20:04	5° \$\overline{0}6'16 5° \$\overline{0}31'20 20° \$\overline{0}31'33 24° \$\overline{0}31'59 0° \$\mathbb{M}\$ 19° \$\mathbb{M}\$.54'55 23° \$\mathbb{M}\$.34'35	1°09'08
minimum elong asc. node evening rise evening max el retrograde	16251 Sep 28 21:22 16251 Sep 28 23:50 16251 Oct 02 10:51 16251 Oct 02 16:10 16251 Oct 08 06:39 16251 Oct 18 16:48 16251 Oct 24 07:58 16251 Nov 01 12:25	23° № 19'17 23° № 30'44 0° M. 0° M.25'15 11° M.11'40 0° ♂ 7° ♂ 16'56 11° ♂ 25'29	-0°33'01 0°32'22	minimum elong asc. node evening rise evening max el retrograde evening set	16252 Sep 09 22:44 16252 Sep 10 04:28 16252 Sep 18 12:51 16252 Sep 20 17:11 16252 Sep 23 16:45 16252 Oct 06 16:27 16252 Oct 13 20:04 16252 Oct 15 23:43	5° \$\overline{9}06'16 5° \$\overline{9}31'20 20° \$\overline{9}31'33 24° \$\overline{9}31'59 0° \$\overline{1}9\$° \$\overline{1}54'55 23° \$\overline{1}34'35 23° \$\overline{1}5'11	1°09'08 18°10'10
minimum elong asc. node evening rise evening max el retrograde evening set	16251 Sep 28 21:22 16251 Sep 28 23:50 16251 Oct 02 10:51 16251 Oct 02 16:10 16251 Oct 08 06:39 16251 Oct 18 16:48 16251 Oct 24 07:58 16251 Nov 01 12:25 16251 Nov 03 10:43	23° △ 19'17 23° △ 30'44 0° M 0° M 25'15 11° M 11'40 0° √ 7° √ 16'56 11° √ 25'29 11° √ 12'28	-0°33'01 0°32'22 18°38'57	minimum elong asc. node evening rise evening max el retrograde evening set desc. node	16252 Sep 09 22:44 16252 Sep 10 04:28 16252 Sep 18 12:51 16252 Sep 20 17:11 16252 Sep 23 16:45 16252 Oct 06 16:27 16252 Oct 13 20:04 16252 Oct 15 23:43 16252 Oct 21 00:04	5° \$\Omega 06'16 5° \$\Omega 31'20 20° \$\Omega 31'33 24° \$\Omega 31'59 0° \$\mathbf{m}\$ 19° \$\mathbf{m}\$.54'55 23° \$\mathbf{m}\$.34'35 23° \$\mathbf{m}\$.15'11 20° \$\mathbf{m}\$.22'55	1°09'08 18°10'10
minimum elong asc. node evening rise evening max el retrograde evening set desc. node	16251 Sep 28 21:22 16251 Sep 28 23:50 16251 Oct 02 10:51 16251 Oct 02 16:10 16251 Oct 08 06:39 16251 Oct 18 16:48 16251 Oct 24 07:58 16251 Nov 01 12:25 16251 Nov 03 10:43 16251 Nov 04 02:50	23° △ 19'17 23° △ 30'44 0° M 0° M 25'15 11° M 11'40 0° √ 7° √ 16'56 11° √ 25'29 11° √ 12'28 11° √ 02'06	-0°33'01 0°32'22 18°38'57 -2°21'46	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj	16252 Sep 09 22:44 16252 Sep 10 04:28 16252 Sep 18 12:51 16252 Sep 20 17:11 16252 Sep 23 16:45 16252 Oct 06 16:27 16252 Oct 13 20:04 16252 Oct 15 23:43 16252 Oct 21 00:04 16252 Oct 23 06:58	5° \$\overline{D}\$06'16 5° \$\overline{D}\$31'20 20° \$\overline{D}\$31'33 24° \$\overline{D}\$31'59 0° \$\mathbb{M}\$. 19° \$\mathbb{M}\$.54'55 23° \$\mathbb{M}\$.34'35 23° \$\mathbb{M}\$.15'11 20° \$\mathbb{M}\$.22'55 18° \$\mathbb{M}\$.30'56	1°09'08 18°10'10 -0°43'58
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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	16251 Sep 28 21:22 16251 Sep 28 23:50 16251 Oct 02 10:51 16251 Oct 02 16:10 16251 Oct 08 06:39 16251 Oct 18 16:48 16251 Oct 24 07:58 16251 Nov 01 12:25 16251 Nov 04 02:50 16251 Nov 11 11:24 16251 Nov 11 05:41 16251 Nov 14 14:21 16251 Nov 18 21:27 16251 Dec 09 05:07 16251 Dec 29 16:14 16252 Jan 07 16:10 16252 Jan 10 02:56	23° ♣19'17 23° ♣30'44 0° M. 0° M.25'15 11° M.11'40 0° ⊀ 7° ₹16'56 11° ₹25'29 11° ₹12'28 11° ₹02'06 6° ₹46'25 6° ₹57'07 4° ₹26'46 1° ₹47'33 0° ₹15'39 7° ₹40'34 0° ₹ 6° ₹39'48 24° ₹39'44 0° ≈	-0°33'01 0°32'22 18°38'57 -2°21'46 2°18'53 0.57231 AU 26°44'05	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	16252 Sep 09 22:44 16252 Sep 10 04:28 16252 Sep 18 12:51 16252 Sep 20 17:11 16252 Sep 23 16:45 16252 Oct 06 16:27 16252 Oct 13 20:04 16252 Oct 21 00:04 16252 Oct 23 06:58 16252 Oct 23 05:24 16252 Oct 26 12:41 16252 Oct 30 07:45 16252 Nov 05 20:29 16252 Nov 20 03:06 16252 Dec 17 14:14 16252 Dec 21 22:45 16252 Dec 28 21:57 16252 Dec 28 21:57	5° \$\overline{D}_00'16 5° \$\overline{D}_31'20 20° \$\overline{D}_31'33 24° \$\overline{D}_31'59 0° \$\mathbb{M} 19° \$\mathbb{M}54'55 23° \$\mathbb{M}34'35 23° \$\mathbb{M}15'11 20° \$\mathbb{M}22'55 18° \$\mathbb{M}27'31 18° \$\mathbb{M}30'56 15° \$\mathbb{M}30'56 15° \$\mathbb{M}38'42 12° \$\mathbb{M}38'42 12° \$\mathbb{M}39'25 0° \$\nall 26° \$\nall 01'37 0° \$\mathred{S}_8° \$\mathred{S}_56'41 24° \$\mathred{S}_14'06 24° \$\mathred{S}_08'06	1°09'08 18°10'10 -0°43'58 0°42'51 0.59385 AU 27°41'19 1°34'52 1°35'29
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	16251 Sep 28 21:22 16251 Sep 28 23:50 16251 Oct 02 10:51 16251 Oct 02 16:10 16251 Oct 08 06:39 16251 Oct 18 16:48 16251 Oct 24 07:58 16251 Nov 01 12:25 16251 Nov 04 02:50 16251 Nov 11 11:24 16251 Nov 11 05:41 16251 Nov 14 14:21 16251 Nov 18 21:27 16251 Nov 18 21:27 16251 Dec 09 05:07 16251 Dec 29 16:14 16252 Jan 07 16:10 16252 Jan 10 02:56	23° ♣19'17 23° ♣30'44 0° M. 0° M.25'15 11° M.11'40 0° ⊀ 7° ₹16'56 11° ₹25'29 11° ₹12'28 11° ₹02'06 6° ₹46'25 6° ₹57'07 4° ₹26'46 1° ₹47'33 0° ₹15'39 7° ₹40'34 0° ₹ 6° ₹39'48 24° ₹39'44 0° ≈	-0°33'01 0°32'22 18°38'57 -2°21'46 2°18'53 0.57231 AU 26°44'05	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	16252 Sep 09 22:44 16252 Sep 10 04:28 16252 Sep 18 12:51 16252 Sep 20 17:11 16252 Sep 23 16:45 16252 Oct 06 16:27 16252 Oct 13 20:04 16252 Oct 21 00:04 16252 Oct 23 06:58 16252 Oct 23 05:24 16252 Oct 26 12:41 16252 Oct 30 07:45 16252 Nov 20 03:06 16252 Nov 20 03:06 16252 Dec 15 13:18 16252 Dec 21 22:45 16252 Dec 28 21:57 16252 Dec 28 21:57 16252 Dec 28 20:52 16252 Dec 28 07:37	5° \$\omega 06'16 5° \$\omega 31'20 20° \$\omega 31'33 24° \$\omega 31'59 0° \$\mathbb{m}\$. 19° \$\mathbb{m}\$.54'55 23° \$\mathbb{m}\$.34'35 23° \$\mathbb{m}\$.15'11 20° \$\mathbb{m}\$.22'55 18° \$\mathbb{m}\$.27'31 18° \$\mathbb{m}\$.30'56 15° \$\mathbb{m}\$.38'42 12° \$\mathbb{m}\$.38'42 12° \$\mathbb{m}\$.38'42 10° \$\mathbb{m}\$.39'25 0° \$\nall 26" \$\nall 20'37 0° \$\nall 8" \$\nall 56'41 24° \$\nall 514'06	1°09'08 18°10'10 -0°43'58 0°42'51 0.59385 AU 27°41'19
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	16251 Sep 28 21:22 16251 Sep 28 23:50 16251 Oct 02 10:51 16251 Oct 02 16:10 16251 Oct 08 06:39 16251 Oct 18 16:48 16251 Oct 24 07:58 16251 Nov 01 12:25 16251 Nov 03 10:43 16251 Nov 04 02:50 16251 Nov 11 11:24 16251 Nov 11 05:41 16251 Nov 14 14:21 16251 Nov 18 21:27 16251 Nov 25 00:02 16251 Dec 09 05:07 16251 Dec 29 16:14 16252 Jan 07 16:10 16252 Jan 10 02:56 16252 Jan 14 10:34 16252 Jan 14 10:34 16252 Jan 14 10:31 16252 Jan 14 23:53	23° ♣19'17 23° ♣30'44 0° M. 0° M.25'15 11° M.11'40 0° ♂ 7° ♂ 16'56 11° ♂ 225'29 11° ♂ 12'28 11° ♂ 02'06 6° ♂ 46'25 6° ♂ 57'07 4° ♂ 26'46 1° ♂ 47'33 0° ♂ 15'39 7° ♂ 40'34 0° ♂ 6° ♂ 39'48 24° ♂ 39'44 0° ∞ 9° ≈ 37'24 9° ≈ 37'07 10° ≈ 51'53	-0°33'01 0°32'22 18°38'57 -2°21'46 2°18'53 0.57231 AU 26°44'05	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.	16252 Sep 09 22:44 16252 Sep 10 04:28 16252 Sep 18 12:51 16252 Sep 20 17:11 16252 Sep 23 16:45 16252 Oct 06 16:27 16252 Oct 13 20:04 16252 Oct 21 00:04 16252 Oct 23 06:58 16252 Oct 23 05:24 16252 Oct 26 12:41 16252 Oct 30 07:45 16252 Nov 05 20:29 16252 Nov 20 03:06 16252 Nov 20 03:06 16252 Dec 15 13:18 16252 Dec 17 14:14 16252 Dec 28 21:57 16252 Dec 28 20:52 16252 Dec 28 20:52 16252 Dec 28 07:37 16252 Dec 31 11:45	5° \$\overline{0}06'16 5° \$\overline{0}31'20 20° \$\overline{0}31'33 24° \$\overline{0}31'59 0° \$\mathbb{m}\$. 19° \$\mathbb{m}\$.54'55 23° \$\mathbb{m}\$.34'35 23° \$\mathbb{m}\$.15'11 20° \$\mathbb{m}\$.22'55 18° \$\mathbb{m}\$.27'31 18° \$\mathbb{m}\$.30'56 15° \$\mathbb{m}\$.38'42 12° \$\mathbb{m}\$.38'42 12° \$\mathbb{m}\$.39'25 0° \$\nall \text{2}\text{2}6° \$\nall \text{2}01'37 0° \$\text{3}\text{8}° \$\text{3}56'41 24° \$\text{3}14'06 24° \$\text{3}08'06 22° \$\text{3}53'56 0° \$\infty\$	1°09'08 18°10'10 -0°43'58 0°42'51 0.59385 AU 27°41'19 1°34'52 1°35'29
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	16251 Sep 28 21:22 16251 Sep 28 23:50 16251 Oct 02 10:51 16251 Oct 02 16:10 16251 Oct 08 06:39 16251 Oct 18 16:48 16251 Oct 24 07:58 16251 Nov 01 12:25 16251 Nov 03 10:43 16251 Nov 14 02:50 16251 Nov 14 11:24 16251 Nov 14 14:21 16251 Nov 18 21:27 16251 Nov 18 21:27 16251 Dec 09 05:07 16251 Dec 25 21:15 16252 Jan 07 16:10 16252 Jan 14 10:34 16252 Jan 14 10:34 16252 Jan 14 10:34 16252 Jan 14 10:31 16252 Jan 14 23:53 16252 Jan 14 10:31	23° ♣19'17 23° ♣30'44 0° M 0° M25'15 11° M11'40 0° ♂ 7° ♂ 16'56 11° ♂ 225'29 11° ♂ 12'28 11° ♂ 02'06 6° ♂ 46'25 6° ♂ 57'07 4° ♂ 26'46 1° ♂ 47'33 0° ♂ 15'39 7° ♂ 40'34 0° ♂ 6° ♂ 39'48 24° ♂ 39'44 0° ∞ 9° ≈ 37'24 9° ≈ 37'07 10° ≈ 51'53 24° ≈ 45'45	-0°33'01 0°32'22 18°38'57 -2°21'46 2°18'53 0.57231 AU 26°44'05	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	16252 Sep 09 22:44 16252 Sep 10 04:28 16252 Sep 18 12:51 16252 Sep 20 17:11 16252 Sep 23 16:45 16252 Oct 06 16:27 16252 Oct 13 20:04 16252 Oct 21 00:04 16252 Oct 23 06:58 16252 Oct 23 05:24 16252 Oct 26 12:41 16252 Oct 30 07:45 16252 Oct 30 07:45 16252 Nov 05 20:29 16252 Nov 20 03:06 16252 Nov 20 03:06 16252 Dec 15 13:18 16252 Dec 17 14:14 16252 Dec 21 22:45 16252 Dec 28 21:57 16252 Dec 28 20:52 16252 Dec 28 07:37 16252 Dec 31 11:45 16253 Jan 04 15:09	5° \$\overline{D}_06'16 5° \$\overline{D}_31'20 20° \$\overline{D}_31'33 24° \$\overline{D}_31'59 0° \$\mathbb{m}_19° \$\mathbb{m}_54'55 23° \$\mathbb{m}_34'35 23° \$\mathbb{m}_15'11 20° \$\mathbb{m}_22'55 18° \$\mathbb{m}_27'31 18° \$\mathbb{m}_38'42 12° \$\mathbb{m}_38'42 12° \$\mathbb{m}_38'42 10° \$\mathbb{m}_56'08 18° \$\mathbb{m}_39'25 0° \$\nall 26° \$\nall 01'37 0° \$\mathred{S}_8° \$\mathred{S}_56'41 24° \$\mathred{S}_14'06 24° \$\mathred{S}_08'06 22° \$\mathred{S}_53'56 0° \$\impsigma\$ 9° \$\impsigma 06'30	1°09'08 18°10'10 -0°43'58 0°42'51 0.59385 AU 27°41'19 1°34'52 1°35'29
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	16251 Sep 28 21:22 16251 Sep 28 23:50 16251 Oct 02 10:51 16251 Oct 02 16:10 16251 Oct 08 06:39 16251 Oct 18 16:48 16251 Oct 24 07:58 16251 Nov 01 12:25 16251 Nov 03 10:43 16251 Nov 14 12:25 16251 Nov 14 14:21 16251 Nov 18 21:27 16251 Nov 18 21:27 16251 Nov 25 00:02 16251 Dec 09 05:07 16251 Dec 25 21:15 16252 Jan 07 16:10 16252 Jan 10 02:56 16252 Jan 14 10:34 16252 Jan 14 10:31 16252 Jan 14 23:53 16252 Jan 21 08:12 16252 Jan 21 08:12	23° ♣19'17 23° ♣30'44 0° M. 0° M.25'15 11° M.11'40 0° ¾ 7° ¾16'56 11° ¾25'29 11° ¾12'28 11° ¾02'06 6° ¾46'25 6° ¾57'07 4° ¾26'46 1° ¾47'33 0° ¾15'39 7° ¾40'34 0° ♂ 6° ♂39'48 24° ♂39'44 0° ≈ 9° ≈37'24 9° ≈37'07 10° ≈51'53 24° ≈45'45 0° €	-0°33'01 0°32'22 18°38'57 -2°21'46 2°18'53 0.57231 AU 26°44'05	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	16252 Sep 09 22:44 16252 Sep 10 04:28 16252 Sep 18 12:51 16252 Sep 20 17:11 16252 Sep 23 16:45 16252 Oct 06 16:27 16252 Oct 13 20:04 16252 Oct 21 00:04 16252 Oct 23 06:58 16252 Oct 23 05:24 16252 Oct 23 07:45 16252 Oct 20 03:06 16252 Nov 20 03:06 16252 Nov 20 03:06 16252 Dec 15 13:18 16252 Dec 15 13:18 16252 Dec 21 22:45 16252 Dec 28 21:57 16252 Dec 28 20:52 16252 Dec 28 07:37 16252 Dec 31 11:45 16253 Jan 04 15:09 16253 Jan 15 05:34	5° \$\omega 06'16 5° \$\omega 31'20 20° \$\omega 31'33 24° \$\omega 31'59 0° \$\mathbb{m}\$. 19° \$\mathbb{m}\$.54'55 23° \$\mathbb{m}\$.34'35 23° \$\mathbb{m}\$.15'11 20° \$\mathbb{m}\$.22'55 18° \$\mathbb{m}\$.27'31 18° \$\mathbb{m}\$.30'56 15° \$\mathbb{m}\$.38'42 12° \$\mathbb{m}\$.53'42 10° \$\mathbb{m}\$.56'08 18° \$\mathbb{m}\$.39'25 0° \$\nall 26° \$\nall 01'37 0° \$\mathbb{m}\$. 26° \$\nall 01'37 0° \$\mathbb{m}\$. 24° \$\mathbb{G}\$.14'06 24° \$\mathbb{G}\$.08'06 22° \$\mathbb{G}\$.30 0° \$\mathbb{K}\$.	1°09'08 18°10'10 -0°43'58 0°42'51 0.59385 AU 27°41'19 1°34'52 1°35'29
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	16251 Sep 28 21:22 16251 Sep 28 23:50 16251 Oct 02 10:51 16251 Oct 02 16:10 16251 Oct 08 06:39 16251 Oct 18 16:48 16251 Oct 24 07:58 16251 Nov 01 12:25 16251 Nov 03 10:43 16251 Nov 11 11:24 16251 Nov 11 05:41 16251 Nov 18 21:27 16251 Nov 18 21:27 16251 Nov 25 00:02 16251 Dec 09 05:07 16251 Dec 25 21:15 16251 Dec 29 16:14 16252 Jan 10 02:56 16252 Jan 14 10:34 16252 Jan 14 10:31 16252 Jan 14 23:53 16252 Jan 21 08:12 16252 Jan 23 20:35 16252 Jan 31 02:22	23° ♣19'17 23° ♣30'44 0° M. 0° M.25'15 11° M.11'40 0° ¾ 7° ¾16'56 11° ¾25'29 11° ¾12'28 11° ¾02'06 6° ¾46'25 6° ¾57'07 4° ¾26'46 1° ¾47'33 0° ¾15'39 7° ¾40'34 0° ♂ 6° ♂39'48 24° ♂39'44 0° ≈ 9° ≈37'24 9° ≈37'07 10° ≈51'53 24° ≈45'45 0° ¥ 13° ¥52'07	-0°33'01 0°32'22 18°38'57 -2°21'46 2°18'53 0.57231 AU 26°44'05	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	16252 Sep 09 22:44 16252 Sep 10 04:28 16252 Sep 18 12:51 16252 Sep 20 17:11 16252 Sep 23 16:45 16252 Oct 06 16:27 16252 Oct 13 20:04 16252 Oct 21 00:04 16252 Oct 23 06:58 16252 Oct 23 05:24 16252 Oct 26 12:41 16252 Oct 30 07:45 16252 Oct 30 07:45 16252 Nov 05 20:29 16252 Nov 20 03:06 16252 Nov 20 03:06 16252 Dec 15 13:18 16252 Dec 17 14:14 16252 Dec 21 22:45 16252 Dec 28 21:57 16252 Dec 28 21:57 16252 Dec 28 20:52 16252 Dec 28 07:37 16252 Dec 31 11:45 16253 Jan 04 15:09 16253 Jan 15 05:34 16253 Jan 16 23:07	5° \$\omega 06'16 5° \$\omega 31'20 20° \$\omega 31'33 24° \$\omega 31'59 0° \$\mathbb{m}\$. 19° \$\mathbb{m}\$.54'55 23° \$\mathbb{m}\$.34'35 23° \$\mathbb{m}\$.15'11 20° \$\mathbb{m}\$.22'55 18° \$\mathbb{m}\$.27'31 18° \$\mathbb{m}\$.30'56 15° \$\mathbb{m}\$.38'42 12° \$\mathbb{m}\$.53'42 10° \$\mathbb{m}\$.56'08 18° \$\mathbb{m}\$.39'25 0° \$\nall 26° \$\nall 01'37 0° \$\mathred{\sigma}\$ 8° \$\mathred{\sigma}\$56'41 24° \$\mathred{\sigma}\$14'06 24° \$\mathred{\sigma}\$08'06 22° \$\mathred{\sigma}\$53'56 0° \$\approx\$ 9° \$\approx 06'30 0° \$\mathred{\capacitage}\$ 2° \$\mathred{\capacitage}\$59'22	1°09'08 18°10'10 -0°43'58 0°42'51 0.59385 AU 27°41'19 1°34'52 1°35'29 1.30998 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	16251 Sep 28 21:22 16251 Sep 28 23:50 16251 Oct 02 10:51 16251 Oct 02 16:10 16251 Oct 08 06:39 16251 Oct 18 16:48 16251 Oct 24 07:58 16251 Nov 01 12:25 16251 Nov 03 10:43 16251 Nov 14 12:25 16251 Nov 14 14:21 16251 Nov 18 21:27 16251 Nov 18 21:27 16251 Nov 25 00:02 16251 Dec 09 05:07 16251 Dec 25 21:15 16252 Jan 07 16:10 16252 Jan 10 02:56 16252 Jan 14 10:34 16252 Jan 14 10:31 16252 Jan 14 23:53 16252 Jan 21 08:12 16252 Jan 21 08:12	23° ♣19'17 23° ♣30'44 0° M. 0° M.25'15 11° M.11'40 0° ¾ 7° ¾16'56 11° ¾25'29 11° ¾12'28 11° ¾02'06 6° ¾46'25 6° ¾57'07 4° ¾26'46 1° ¾47'33 0° ¾15'39 7° ¾40'34 0° ♂ 6° ♂39'48 24° ♂39'44 0° ≈ 9° ≈37'24 9° ≈37'07 10° ≈51'53 24° ≈45'45 0° €	-0°33'01 0°32'22 18°38'57 -2°21'46 2°18'53 0.57231 AU 26°44'05 1°38'10 1°38'45 1.31149 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	16252 Sep 09 22:44 16252 Sep 10 04:28 16252 Sep 18 12:51 16252 Sep 20 17:11 16252 Sep 23 16:45 16252 Oct 06 16:27 16252 Oct 13 20:04 16252 Oct 21 00:04 16252 Oct 23 06:58 16252 Oct 23 05:24 16252 Oct 23 07:45 16252 Oct 20 03:06 16252 Nov 20 03:06 16252 Nov 20 03:06 16252 Dec 15 13:18 16252 Dec 15 13:18 16252 Dec 21 22:45 16252 Dec 28 21:57 16252 Dec 28 20:52 16252 Dec 28 07:37 16252 Dec 31 11:45 16253 Jan 04 15:09 16253 Jan 15 05:34	5° \$\omega 06'16 5° \$\omega 31'20 20° \$\omega 31'33 24° \$\omega 31'59 0° \$\mathbb{m}\$. 19° \$\mathbb{m}\$.54'55 23° \$\mathbb{m}\$.34'35 23° \$\mathbb{m}\$.15'11 20° \$\mathbb{m}\$.22'55 18° \$\mathbb{m}\$.27'31 18° \$\mathbb{m}\$.30'56 15° \$\mathbb{m}\$.38'42 12° \$\mathbb{m}\$.53'42 10° \$\mathbb{m}\$.56'08 18° \$\mathbb{m}\$.39'25 0° \$\nall 26° \$\nall 01'37 0° \$\mathbb{m}\$. 26° \$\nall 01'37 0° \$\mathbb{m}\$. 24° \$\mathbb{G}\$.14'06 24° \$\mathbb{G}\$.08'06 22° \$\mathbb{G}\$.30 0° \$\mathbb{K}\$.	1°09'08 18°10'10 -0°43'58 0°42'51 0.59385 AU 27°41'19 1°34'52 1°35'29 1.30998 AU

retrograde	16253 Feb 16 10:52	2° Y 09'25		desc. node	16254 Jan 03 19:58	21° ≈ 25′15	
evening set	16253 Feb 22 17:24	0° Υ 35'00			16254 Jan 10 00:02	0° ∀	
	16253 Feb 23 20:05	30° ₹	0.50006.433	evening max el	16254 Jan 15 01:58	5°) €33'48	24°55'31
min. Earth dist.	16253 Feb 27 00:35	27°) 57'24	0.58086 AU	retrograde	16254 Jan 28 20:50	12°) €27'47	
inferior conj minimum elong	16253 Mar 02 03:18 16253 Mar 02 11:20	25°\(\frac{1}{40'41}\) 25°\(\frac{1}{25'55}\)		evening set min. Earth dist.	16254 Feb 03 08:13 16254 Feb 08 14:10	11° ∺ 20'58	0.56165 AU
morning rise	16253 Mar 10 08:37	23 K 23 33 21° H 13'28	3 20 31	inferior conj	16254 Feb 11 02:10	6° ¥ 59'21	
direct	16253 Mar 12 07:38	21°\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\		minimum elong	16254 Feb 11 11:30	6°) 44′27	
asc. node	16253 Mar 13 11:06	21° X 05'09		morning rise	16254 Feb 19 17:17	2° H 53'16	1 3 1 2 3
morning max el	16253 Mar 20 14:14	25°) 05'23	18°31'30	direct	16254 Feb 21 20:31	2°) (40'34	
S	16253 Mar 24 16:52	0° Υ		asc. node	16254 Feb 28 08:26	4°) 47′04	
morning set	16253 Apr 05 12:01	20° Y 33'19		morning max el	16254 Mar 03 13:09	7°) €23'44	19°25'57
	16253 Apr 10 10:08	0°8			16254 Mar 18 01:29	0° Y	
				morning set	16254 Mar 20 14:00	4° Y 59'50	
superior conj	16253 Apr 14 14:08	7° 8 49'33					
minimum elong	16253 Apr 14 14:22	7° 8 50'35	0°03'12	superior conj	16254 Mar 28 17:31	21° Υ 13'16	
behind sun begin	16253 Apr 14 07:22	7° 8 18'13		minimum elong	16254 Mar 28 19:28	21° Y '22'46	0°34'14
behind sun end	16253 Apr 14 21:21	8° 8 22'52		desc. node	16254 Apr 01 21:06	29° Y ′08'55	
desc. node	16253 Apr 15 00:23	8° 8 36'51 21° 8 08'20	1 40267 ATT	Danila diat	16254 Apr 02 08:03	0°8	1 200 <i>65</i> ATT
max. Earth dist. evening rise	16253 Apr 22 00:46 16253 Apr 26 05:18	21° 8 08'20	1.40367 AU	max. Earth dist. evening rise	16254 Apr 04 06:48 16254 Apr 07 23:32	3° 8 35'25 10° 8 11'45	1.38065 AU
evening rise	16253 Apr 27 06:53	28 O 1413		evening rise	16254 Apr 20 01:17	0° Ⅱ	
	16253 May 17 03:47	0° ©			16254 May 12 19:48	0ಂ ತಾ	
evening max el	16253 May 30 18:43	16°935'50	23°38'23	evening max el	16254 May 13 08:08	0°930'48	24°58'01
asc. node	16253 Jun 09 08:58	22° © 50'33	25 50 25	retrograde	16254 May 25 06:01	7° 9 27'17	2.0001
retrograde	16253 Jun 10 14:31	22° © 57'02		asc. node	16254 May 27 06:03	7° © 10'34	
evening set	16253 Jun 15 21:33	20°5541'41		evening set	16254 May 31 00:22	5° © 01'17	
min. Earth dist.	16253 Jun 20 15:22	15° © 07'18	0.68990 AU		16254 Jun 04 11:12	30°Ŗ Ⅱ	
inferior conj	16253 Jun 21 06:36	14° © 15'03	2°52'03	min. Earth dist.	16254 Jun 04 09:59	0° © 03'59	0.68339 AU
minimum elong	16253 Jun 21 05:06	14° 5 20'13	2°51'07	inferior conj	16254 Jun 05 14:15	28° Ⅲ 30′42	2°28'11
morning rise	16253 Jun 26 12:39	8° © 09'32		minimum elong	16254 Jun 05 12:12	28° Ⅱ 37'29	2°27'00
direct	16253 Jun 30 16:56	6° 5 31'18		morning rise	16254 Jun 11 00:19	22° Ⅲ 34'41	
morning max el	16253 Jul 08 18:42	11° © 06'21	20°32'41	direct	16254 Jun 14 17:08	21° Ⅱ 16′03	
desc. node	16253 Jul 12 00:08	14° © 37'33		morning max el	16254 Jun 21 21:11	25° Ⅱ 12'40	19°26'54
	16253 Jul 23 10:21	0°Ω		11-	16254 Jun 26 02:47	0°ഇ 3° ഇ 37'53	
morning set	16253 Aug 06 20:25 16253 Aug 12 05:05	21° Ω 37'59 0° m		desc. node greatest brilliancy	16254 Jun 28 21:16 16254 Jul 04 13:15	11° © 41'45	-0.7m
max. Earth dist.	16253 Aug 12 05:05 16253 Aug 15 15:42	5°Mg 28'30	1.43915 AU	greatest orimancy	16254 Jul 16 16:00	0°Ω	-0.7111
max. Earth tist.	10233 Aug 13 13.42	3 HJ 2030	1.43913 AU	morning set	16254 Jul 17 00:39	0° Ω 33'12	
superior conj	16253 Aug 22 01:33	15° m 55'16	-1°43'50	max. Earth dist.	16254 Jul 29 07:01		1.45287 AU
minimum elong	16253 Aug 22 09:25	16° m) 27'55					
Č	16253 Aug 30 09:04	0∘ ⊽		superior conj	16254 Aug 02 05:19	25° Ω 48′01	-2°07'34
evening rise	16253 Sep 03 12:23	7° £ 11'47		minimum elong	16254 Aug 02 11:06	26° Ω 11′02	2°07'45
asc. node	16253 Sep 05 09:31	10° ≏ 28'55			16254 Aug 04 20:27	0° ™	
	16253 Sep 17 13:34	0° M		evening rise	16254 Aug 16 10:56	18° m 57'51	
evening max el	16253 Sep 20 05:59	3°M04'02	18°01'09	asc. node	16254 Aug 23 06:14	0° ჲ 13'06	
retrograde	16253 Sep 26 19:20	6° ™ 28'02			16254 Aug 23 03:01	0∘ ত	
evening set	16253 Sep 29 06:36	5°M58'31	000 (150	evening max el	16254 Sep 03 20:56	16° ≏ 35'28	18°10'40
inferior conj	16253 Oct 05 21:36	0°M51'26	0°36'53	retrograde	16254 Sep 10 05:36	19° £ 56'47	
minimum elong	16253 Oct 05 22:42	0°M48'42	0°36'46	evening set	16254 Sep 13 01:32	19° £ 13'50 13° £ 50'00	1020117
desc. node	16253 Oct 06 17:59 16253 Oct 07 21:23	30° ₹ Ω 28°Ω51'07		inferior conj minimum elong	16254 Sep 19 03:20 16254 Sep 19 05:32	13° 2 43'49	1°38'17 1°37'40
min. Earth dist.	16253 Oct 07 21:23 16253 Oct 08 21:02	28 ⊆ 51 07 27° ⊆ 53'16	0.61680 AU	min. Earth dist.	16254 Sep 21 15:28	13 ⊆ 43 49 11° ⊆ 01'44	0.63876 AU
morning rise	16253 Oct 10 21:02	24° ⊆ 50'52	0.01000 AC	desc. node	16254 Sep 24 18:44	7° £ 58'41	0.03670 AC
direct	16253 Oct 12 12:02 16253 Oct 19 04:28	22° Ω 31'56		morning rise	16254 Sep 25 07:38	7° - 30'41	
	16253 Nov 01 20:59	0°M		direct	16254 Oct 01 22:12	5° ⊆ 00'06	
morning max el	16253 Nov 02 08:21	0° ™ 27'49	27°59'13	morning max el	16254 Oct 15 17:59	12° ≏ 58'41	27°39'29
-	16253 Nov 23 20:16	0° ∡ ″		-	16254 Oct 29 10:45	0° M	
asc. node	16253 Dec 02 10:18	15° ∡ ¹43'57			16254 Nov 16 09:13	0° ∡ ¹	
morning set	16253 Dec 05 23:48	22° ₹ 54'52		asc. node	16254 Nov 19 07:15	5° х 40'43	
	16253 Dec 09 08:18	0°₹		morning set	16254 Nov 19 16:53	6° ∡ ¹28'40	
max. Earth dist.	16253 Dec 11 12:41	4°る44'50	1.31398 AU	max. Earth dist.	16254 Nov 24 11:14	16° ∤ 16'41	1.32371 AU
superior conj	16253 Dec 13 07:58	8° ප 43'31	1°25'31	superior conj	16254 Nov 27 14:37	23° ∡ ¹00′27	1°10'02
minimum elong	16253 Dec 13 06:04	8° ප 33'01	1°26'02	minimum elong	16254 Nov 27 12:16	22° ∡ ′47'45	1°10'23
evening rise	16253 Dec 20 00:57	23° る 32'36		3	16254 Nov 30 19:33	8°0	
	16253 Dec 23 01:56	0° ≈		evening rise	16254 Dec 04 11:46	7° る 59'42	

daga mada	16254 Dec 15 18:54 16254 Dec 21 16:54	0° ≈ 8° ≈ 54'24		desc. node	16255 Nov 22 13:49	0°궁 25°궁07'36	
desc. node evening max el	16254 Dec 27 11:36	8°≈34'24 15°≈33'00	23°13'29	evening max el	16255 Dec 08 13:54 16255 Dec 09 00:53	25° る 35'06	21°32'54
retrograde	16255 Jan 09 17:24	22°≈05'58	23 13 29	evening max er	16255 Dec 14 22:25	25 ⊘ 55 00	21 32 34
evening set	16255 Jan 14 00:45	21°≈25'49		retrograde	16255 Dec 21 03:49	1° ≈ 34'33	
min. Earth dist.	16255 Jan 20 22:06	18°≈12'29	0.54845 AU	evening set	16255 Dec 24 04:57	1°≈13'26	
inferior conj	16255 Jan 22 05:13	17°≈27'42		evening see	16255 Dec 27 19:51	30°Rる	
minimum elong	16255 Jan 22 09:55		5°52'29	inferior conj	16256 Jan 01 20:44	27° る 23'34	-5°55'17
morning rise	16255 Jan 30 20:24	13° ≈ 36'30		minimum elong	16256 Jan 01 16:08	27° පි 30'01	5°54'14
direct	16255 Feb 02 14:42	13° ≈ 18'19		min. Earth dist.	16256 Jan 02 03:26	27° ප 14'11	0.54377 AU
morning max el	16255 Feb 13 21:55	18° ≈ 46′15	20°43'39	morning rise	16256 Jan 10 03:48	23° る 34'48	
asc. node	16255 Feb 15 05:46	20° ≈ 07'31		direct	16256 Jan 13 23:01	23° る 03'22	
	16255 Feb 22 12:27	0°)		morning max el	16256 Jan 26 15:52	29° る 13'34	22°22'25
morning set	16255 Mar 04 21:39	19° ∺ 38′24			16256 Jan 27 10:47	0° ≈	
	16255 Mar 09 21:12	0° Υ		asc. node	16256 Feb 02 03:03	6° ≈ 49'07	
					16256 Feb 15 06:27	0° \	
superior conj	16255 Mar 12 09:04	5°Υ08'10	0°59'53	morning set	16256 Feb 17 08:31	4°) €22'08	
minimum elong	16255 Mar 12 11:36	5° Y 21′04	0°59'30		16056 5 1 04 00 01	1001/2450	1010100
max. Earth dist.	16255 Mar 17 14:40	15° Y 33'15 19° Y 37'25	1.35865 AU	superior conj	16256 Feb 24 09:21	19° ¥ 24'50	1°18'39
desc. node	16255 Mar 19 17:47	19°°√3/25 22°°√53'45		minimum elong max. Earth dist.	16256 Feb 24 11:38 16256 Feb 28 04:54	19°) 36′59 27°) 22′39	1°18'34 1.33962 AU
evening rise	16255 Mar 21 11:53 16255 Mar 25 10:38	0° 8		max. Earm dist.	16256 Feb 29 11:51	27 π 22 39 0° Υ	1.55902 AU
	16255 Apr 13 18:39	0°II		evening rise	16256 Mar 03 14:48	6° Υ 10'40	
evening max el	16255 Apr 25 21:44	14° Ⅱ 22'18	26°08'39	desc. node	16256 Mar 05 14:28	9° Υ 58'32	
retrograde	16255 May 08 16:42	21° II 41'56	20 0037	dese. Hode	16256 Mar 17 03:19	0°8	
asc. node	16255 May 14 03:12	19° Ⅱ 45'41		evening max el	16256 Apr 07 11:38	28° 8 02'44	27°02'37
evening set	16255 May 14 21:25	19° Ⅱ 10′12		Ü	16256 Apr 09 14:31	0°II	
min. Earth dist.	16255 May 19 00:30	14° Ⅱ 48'42	0.67224 AU	retrograde	16256 Apr 20 21:28	5° Ⅲ 33′08	
inferior conj	16255 May 20 17:47	12° Ⅱ 40′29	1°52'58	evening set	16256 Apr 27 10:42	3° Ⅱ 01'30	
minimum elong	16255 May 20 15:37	12° Ⅱ 47'14	1°51'41	asc. node	16256 Apr 30 00:24	0° Ⅱ 40'47	
morning rise	16255 May 26 10:37	6° Ⅱ 55'16			16256 Apr 30 15:52	30° ₹ 8	
direct	16255 May 29 16:48	5° Ⅱ 55'00		min. Earth dist.	16256 May 01 08:45	29° 8 13'44	0.65682 AU
morning max el	16255 Jun 05 06:31	9° Ⅱ 25'23	18°36'48	inferior conj	16256 May 03 14:51	26° 8 39'00	1°05'17
desc. node	16255 Jun 15 18:20	23° Ⅱ 09'45		minimum elong	16256 May 03 13:15	26° 8 43'37	1°04'11
. ,	16255 Jun 20 05:38	0°95		morning rise	16256 May 09 17:17	21° 8 06'24	
morning set	16255 Jun 26 16:58 16255 Jul 09 10:54	10° © 05'49 0° Ω		direct morning max el	16256 May 12 13:48 16256 May 18 21:09	20° 8 22'16 23° 8 39'02	18°03'33
max. Earth dist.	16255 Jul 12 02:02	4° Ω 05'59	1.45961 AU	morning max ci	16256 May 24 03:07	0°Ⅱ	18 03 33
max. Lattii dist.	10233 Jul 12 02.02	4 66 0337	1.43701 AU	desc. node	16256 Jun 01 15:19	13° Ⅱ 04'49	
superior conj	16255 Jul 12 17:00	5° Ω 04'21	-2°14'01	morning set	16256 Jun 06 10:45	20° Ⅱ 52'32	
minimum elong	16255 Jul 12 15:38	4° Ω 59'01		Ü	16256 Jun 12 02:14	0ಂತಾ	
evening rise	16255 Jul 28 08:36	29° Ω 40′24					
	16255 Jul 28 13:33	0° m)		superior conj	16256 Jun 21 03:53	14° © 24'28	-2°00'26
greatest brilliancy	16255 Aug 04 15:16	11° m y 12'05	-0.9m	minimum elong	16256 Jun 20 20:14	13° 9 54'26	2°00'37
asc. node	16255 Aug 10 02:58	19° m 38'22		max. Earth dist.	16256 Jun 23 22:43	18° 5 46'20	1.45883 AU
	16255 Aug 18 01:46	0∘ ⊽			16256 Jul 01 04:05	0 ° Ω	
evening max el	16255 Aug 18 10:04	0° £ 20'50	18°37'50	evening rise	16256 Jul 07 07:06	9° Ω 27'16	
retrograde	16255 Aug 24 22:58	3° ₽ 52'31		greatest brilliancy	16256 Jul 19 21:10	28° Ω 36'21	-0.7m
evening set	16255 Aug 28 04:14	2° £ 53'36			16256 Jul 20 19:51	0° Т) 8° Т) 37'32	
inferior conj	16255 Aug 31 12:08 16255 Sep 02 20:16	30° ዪ ሺኒ 27° ሺኒ 14'59	2°21'45	asc. node evening max el	16256 Jul 26 23:43 16256 Jul 31 18:54	14° My 12'59	19°21'37
minimum elong	16255 Sep 02 20:10	27° m) 08'06	2°21'06	retrograde	16256 Aug 07 20:20	18° My 07'52	19 21 37
min. Earth dist.	16255 Sep 04 18:51	24° m ₂ 52'12		evening set	16256 Aug 11 11:30	16° Mp 51'24	
morning rise	16255 Sep 08 15:39	20° m) 49'52	0.037737110	inferior conj	16256 Aug 16 21:07	10° m ₂ 59'30	2°49'50
desc. node	16255 Sep 11 16:05	18° m) 54'34		minimum elong	16256 Aug 16 22:46	10° Mp 54'02	2°49'17
direct	16255 Sep 14 23:55	18° m 12'29		min. Earth dist.	16256 Aug 18 05:37	9° m 12'57	0.67331 AU
morning max el	16255 Sep 28 05:16	26° Mp 00'16	26°48'48	morning rise	16256 Aug 22 09:27	4° m/32'48	
	16255 Oct 01 21:55	0∘ ⊽		direct	16256 Aug 28 08:10	1° m 59'11	
	16255 Oct 22 23:59	0° M		desc. node	16256 Aug 28 13:26	1° m 59'22	
morning set	16255 Nov 02 23:05	19° M 31'39		morning max el	16256 Sep 09 16:31	9° m 21'17	25°35'50
asc. node	16255 Nov 06 04:07	25°M46'54			16256 Sep 26 00:17	0∘ 亚	
max. Earth dist.	16255 Nov 07 00:35	27°M29'03	1.33904 AU		16256 Oct 14 13:17	0°M	
	16255 Nov 08 06:29	0° ∡ ¹		morning set	16256 Oct 15 14:43	1°M54'45	105051:==
	1/05531 11 1505	(0 3 500 5	0040122	max. Earth dist.	16256 Oct 19 04:51	8°M33'35	1.35924 AU
superior conj	16255 Nov 11 15:36	6° ₹ 59'15	0°48'22	asc. node	16256 Oct 23 00:54	15°M57'36	
minimum elong evening rise	16255 Nov 11 13:24 16255 Nov 18 21:45	6° х 47'43 22° х 23'47	0°48'36	superior conj	16256 Oct 25 08:03	20°M31'55	0°20'42
evening 1186	10233 INOV 18 21.43	22 X.7341		superior coll	10230 001 23 08.03	20 11631 33	0 2042

minimum elong	16256 Oct 25 06:51	20°M25'50 0°⊀	0°20'57	superior conj	16257 Oct 08 12:34	3°M30'32	
evening rise	16256 Oct 29 23:25 16256 Nov 02 04:46	6° ∡ ¹38'47		minimum elong behind sun begin	16257 Oct 08 13:24 16257 Oct 08 08:38	3°M34'29 3°M11'43	0°11'49
evening rise	16256 Nov 15 00:18	0 x 3047 0°る		behind sun end	16257 Oct 08 08:38 16257 Oct 08 18:10	3°M57'17	
evening max el	16256 Nov 20 02:10	6°る12'24	20°08'02	asc. node	16257 Oct 09 21:39	6°M09'19	
desc. node	16256 Nov 24 10:58	9°る40'24	20 00 02	evening rise	16257 Oct 17 06:24	20°M38'49	
retrograde	16256 Nov 30 15:44	11° る 28'16		evening rise	16257 Oct 22 01:57	0° ⊼	
evening set	16256 Dec 02 19:59	11° る 15'54		evening max el	16257 Nov 02 17:54	17° × 739'31	19°05'01
inferior conj	16256 Dec 11 14:46	7° る 18'45	-4°57'18	desc. node	16257 Nov 11 08:05	22° х 10′23	-, 00 01
minimum elong	16256 Dec 11 04:53	7° る 33'34	4°54'06	retrograde	16257 Nov 11 17:32	22°×10'53	
min. Earth dist.	16256 Dec 13 09:22	6° ප 14'58	0.54848 AU	evening set	16257 Nov 13 14:51	21° ₹ ′59'42	
morning rise	16256 Dec 19 12:58	3° る 13'40		inferior conj	16257 Nov 22 00:27	17° ∡ ¹45'29	-3°21'47
direct	16256 Dec 24 09:43	2° る 22'21		minimum elong	16257 Nov 21 16:16	17° ₹ 59'32	3°18'08
morning max el	16257 Jan 07 00:56	9° ට 06'47	24°12'24	min. Earth dist.	16257 Nov 24 19:42	15° ₹ '50'28	0.56168 AU
asc. node	16257 Jan 19 00:17	24° る 33'07		morning rise	16257 Nov 29 15:03	13° ∡ ′07'39	
	16257 Jan 22 05:31	0° ≈		direct	16257 Dec 05 08:17	11° ∡ 751′27	
morning set	16257 Jan 31 20:30	19° ≈ 04'41		morning max el	16257 Dec 19 10:57	19° ∡ *03'43	25°55'31
	16257 Feb 05 20:36	0°)			16257 Dec 28 15:53	ರ°ರ	
				asc. node	16258 Jan 05 21:27	13° る 04'11	
superior conj	16257 Feb 07 15:30	3° ¥ 54'59	1°31'05		16258 Jan 14 14:20	0° ≈	
minimum elong	16257 Feb 07 17:03	4° ₭ 03'28	1°31'19	morning set	16258 Jan 16 07:48	3° ≈ 41′04	
max. Earth dist.	16257 Feb 10 02:49	9° ∺ 16′20	1.32476 AU				
evening rise	16257 Feb 15 04:53	19° ¥ 53′28		superior conj	16258 Jan 23 01:15	18° ≈ 32'16	1°37'20
desc. node	16257 Feb 20 11:10	0° Y ′07′21		minimum elong	16258 Jan 23 01:48	18° ≈ 35′23	1°37'50
	16257 Feb 20 09:36	0° Y		max. Earth dist.	16258 Jan 24 06:53	21° ≈ 16'44	1.31479 AU
	16257 Mar 11 04:52	9° 8			16258 Jan 28 06:50	0°)	
evening max el	16257 Mar 21 00:22	11° 8 20'00	27°32'36	evening rise	16258 Jan 30 03:20	3° ¥ 55′21	
retrograde	16257 Apr 03 19:23	18° 8 51'43		desc. node	16258 Feb 07 07:52	19° ¥ 58'14	
evening set	16257 Apr 10 14:01	16° 8 26'50			16258 Feb 13 03:15	0° Y	
min. Earth dist.	16257 Apr 14 08:47	13° 8 09'05	0.63770 AU	evening max el	16258 Mar 03 09:41	24° Y ′00′51	27°32'04
asc. node	16257 Apr 16 21:38	10° 8 32'13			16258 Mar 11 13:31	0°8	
inferior conj	16257 Apr 17 02:40	10° 8 19'08	0°03'58	retrograde	16258 Mar 17 09:29	1° 8 27'11	
minimum elong	16257 Apr 17 02:33	10° 8 19'25	0°03'32		16258 Mar 22 22:37	30° ₹ Υ	
transit middle	16257 Apr 17 02:33	10° 8 19'25	0°03'32	evening set	16258 Mar 24 04:37	29° Y 16'33	
transit begin	16257 Apr 16 23:30	10° 8 27'22		min. Earth dist.	16258 Mar 27 23:10	26° Y ′22'24	0.61597 AU
transit end	16257 Apr 17 05:37	10° 8 11'29		inferior conj	16258 Mar 31 01:53	23° Y '31'42	
morning rise	16257 Apr 23 17:30	5° 8 01'35		minimum elong	16258 Mar 31 04:24	23° Y 25'54	1°10'38
direct	16257 Apr 26 05:22	4° 8 30'41	17047120	asc. node	16258 Apr 03 18:55	20° Υ 24'13	
morning max el	16257 May 02 14:35	7° 8 46'05	1/34/39	morning rise	16258 Apr 07 07:27	18° ℃ 31'57	
morning set	16257 May 17 13:59 16257 May 19 07:17	0° П 2° П 55'31		direct morning max el	16258 Apr 09 12:00 16258 Apr 16 07:41	18° Y 10'59 21° Y 36'47	17°49'32
desc. node	16257 May 19 10:17	2 Ⅲ 3531 3° Ⅲ 16'37		morning max er	16258 Apr 22 18:14	0° 8	17 49 32
desc. node	10237 Way 19 12.13	3 щ103/		morning set	16258 May 02 01:33	15° 8 58'33	
superior conj	16257 Jun 01 05:57	24° Ⅱ 29'50	_1°31'12	desc. node	16258 May 06 09:05	23° 8 39'14	
minimum elong	16257 May 31 21:49	23° II 56'52		dese. Hode	16258 May 10 00:01	0°Ⅱ	
mmmum viong	16257 Jun 04 16:03	0.00 20 20001	1 300)		10200 1114) 10 00.01	~ ~	
max. Earth dist.	16257 Jun 06 18:20	3°9519'50	1.45065 AU	superior conj	16258 May 13 06:49	5° Ⅱ 38'06	-0°54'21
evening rise	16257 Jun 16 17:56	18° 9 51'17		minimum elong	16258 May 13 01:53	5° Ⅱ 17'08	
<i>8</i> 11	16257 Jun 24 02:42	$0^{\circ}\Omega$		max. Earth dist.	16258 May 20 09:58	17° Ⅱ 28'07	1.43596 AU
asc. node	16257 Jul 13 20:32	27° Ω 01'56		evening rise	16258 May 27 09:40	28° Ⅲ 34'17	
evening max el	16257 Jul 14 21:52	28° Ω 07'22	20°20'30	C	16258 May 28 07:44	0∘ ©	
•	16257 Jul 16 23:22	0° m			16258 Jun 17 19:54	$0^{\circ}\Omega$	
retrograde	16257 Jul 22 19:22	2°m/37'10		evening max el	16258 Jun 27 18:47	12° Ω 01′18	21°31'51
evening set	16257 Jul 26 21:00	1°M)02'46		asc. node	16258 Jun 30 17:24	14° Ω 39′05	
	16257 Jul 28 01:24	30° R Ω		retrograde	16258 Jul 06 18:05	17° Ω 14'04	
inferior conj	16257 Aug 01 03:12	24° Ω 58'50	3°04'46	evening set	16258 Jul 11 06:47	15° Ω 22'24	
minimum elong	16257 Aug 01 04:00	24° Ω 56′07	3°04'15	inferior conj	16258 Jul 16 12:15	9° Ω 08'02	3°08'11
min. Earth dist.	16257 Aug 01 21:54	23° Ω 54'49	0.68420 AU	minimum elong	16258 Jul 16 12:06	9° Ω 08'35	3°07'35
morning rise	16257 Aug 06 10:40	18° Ω 34'52		min. Earth dist.	16258 Jul 16 17:38	8° Ω 49'17	0.69029 AU
direct	16257 Aug 11 22:03	16° Ω 11'42		morning rise	16258 Jul 21 17:12	2° Ω 49'38	
desc. node	16257 Aug 15 10:45	17° Ω 01'09		direct	16258 Jul 26 16:29	0° Ω 41'43	
morning max el	16257 Aug 23 03:34	22° Ω 54'27	24°10'06	desc. node	16258 Aug 02 08:03	3° Ω 35'47	
	16257 Aug 29 09:41	0° m		morning max el	16258 Aug 05 15:40	6° Ω 35'20	22°40'55
	16257 Sep 19 08:02	0° ⊽			16258 Aug 23 19:23	0° m)	
morning set	16257 Sep 27 11:47	13° £ 29'25	1.000 5 1 1 ==	morning set	16258 Sep 08 10:25	24° Mp 06'58	
max. Earth dist.	16257 Oct 01 03:58	19° Ω 55'13	1.38264 AU	E d E :	16258 Sep 11 23:45	0° ™	1 40//0 411
	16257 Oct 06 16:07	0° M ,		max. Earth dist.	16258 Sep 13 03:51	1° £ 58′25	1.40668 AU

superior conj	16258 Sep 21 01:04	15° ≙ 45'51	0040144	superior conj	16259 Sep 02 17:14	27° m 08'44	1025106
minimum elong	16258 Sep 21 04:55	16° 2 03'14	0°47'58	minimum elong	16259 Sep 03 00:10	27° my 38'22	
asc. node	16258 Sep 26 18:22	26° ≏ 18'23	0 47 38	minimum clong	16259 Sep 04 09:10	0° ي	1 241)
use. Houe	16258 Sep 28 17:27	0°M		asc. node	16259 Sep 13 15:04	ა <u> </u>	
evening rise	16258 Sep 30 23:33	4°M15'56		evening rise	16259 Sep 14 04:10	17° ≏ 20'05	
evening rise	16258 Oct 16 23:51	0° ₹		evening rise	16259 Sep 21 07:53	0°M	
evening max el	16258 Oct 16 21:29	29°M54'07	18°24'14	evening max el	16259 Sep 30 08:40	12°M46'37	18°04'03
retrograde	16258 Oct 24 14:17	3° х 49′01		retrograde	16259 Oct 07 04:52	16°M17'39	
evening set	16258 Oct 26 14:15	3° х 33′55		evening set	16259 Oct 09 11:39	15°M54'22	
desc. node	16258 Oct 29 05:15	2° ∡ °32'05		inferior conj	16259 Oct 16 11:43	10°M58'25	-0°07'16
	16258 Nov 02 00:36	30°RM₀		minimum elong	16259 Oct 16 11:29	10°M58'57	0°06'47
inferior conj	16258 Nov 03 07:38	28°M58'49	-1°38'40	transit middle	16259 Oct 16 11:29	10°M58'57	0°06'47
minimum elong	16258 Nov 03 03:48	29°M06'29	1°36'32	transit begin	16259 Oct 16 08:29	11° M 05'56	
min. Earth dist.	16258 Nov 06 13:17	26°M24'06	0.58104 AU	transit end	16259 Oct 16 14:30	10°M51'57	
morning rise	16258 Nov 10 13:52	23°M44'04		desc. node	16259 Oct 16 02:32	11° M .19'41	
direct	16258 Nov 16 21:30	22°M00'43		min. Earth dist.	16259 Oct 19 15:47	8°M02'56	0.60361 AU
morning max el	16258 Dec 01 04:05	29°M35'08	27°13'08	morning rise	16259 Oct 23 08:09	5° M 12'14	
	16258 Dec 01 14:14	0° ∡ ″		direct	16259 Oct 29 23:28	3°M04'25	
	16258 Dec 22 14:25	0°ප		morning max el	16259 Nov 13 05:12	10° M 54'11	27°53'47
asc. node	16258 Dec 23 18:34	2° る 10'18			16259 Nov 28 03:49	0° ∡ ¹	
morning set	16258 Dec 31 16:40	18° る 06'42		asc. node	16259 Dec 10 15:38	21° ∡ ″41′20	
	16259 Jan 06 02:28	0° ≈			16259 Dec 14 19:06	8°0	
				morning set	16259 Dec 15 21:08	2° る 15'42	
superior conj	16259 Jan 07 12:36	3° ≈ 11'09	1°37'31	max. Earth dist.	16259 Dec 21 21:03	15° ප 17'06	1.31092 AU
minimum elong	16259 Jan 07 12:06	3° ≈ 08′22	1°38'08				
max. Earth dist.	16259 Jan 07 14:10	3° ≈ 20′00	1.31007 AU	superior conj	16259 Dec 22 23:37	17° る 45'08	1°31'39
evening rise	16259 Jan 14 07:49	18°≈11'00		minimum elong	16259 Dec 22 22:09	17° る 37'01	1°32'15
	16259 Jan 20 02:30	0°) €			16259 Dec 28 11:49	0° ≈	
desc. node	16259 Jan 25 04:37	9°) (24′15		evening rise	16259 Dec 29 16:11	2° ≈ 34'16	
	16259 Feb 08 01:51	0 ° Υ		desc. node	16260 Jan 12 01:25	28° ≈ 15′09	
evening max el	16259 Feb 13 13:19	5° Ƴ 55'22	26°56'57		16260 Jan 13 03:25	0°) €	
retrograde	16259 Feb 27 14:22	13° Y 11'17		evening max el	16260 Jan 26 09:02	16°) ₹56'38	25°47'51
evening set	16259 Mar 06 03:28	11° Y °22'12		retrograde	16260 Feb 09 07:32	23° ¥ 58'45	
min. Earth dist.	16259 Mar 10 03:28	8° Ƴ 41'57	0.59334 AU	evening set	16260 Feb 15 06:50	22°) 36′13	
inferior conj	16259 Mar 13 08:52	6° Y ′07'45	-2°38'37	min. Earth dist.	16260 Feb 19 22:03	19°) 56′56	0.57211 AU
minimum elong	16259 Mar 13 14:56	5° Y 55'36	2°36'19	inferior conj	16260 Feb 22 20:01	17° ¥ 56′22	-4°09'34
morning rise	16259 Mar 21 06:00	1° Y ′28′07		minimum elong	16260 Feb 23 05:06	17° ¥ 40′39	4°06'31
asc. node	16259 Mar 21 16:13	1° Y ′22'32		morning rise	16260 Mar 02 06:23	13° ¥ 38′02	
direct	16259 Mar 23 05:38	1° Y 13'26		direct	16260 Mar 04 06:01	13° ¥ 25'48	
morning max el	16259 Mar 30 20:58	5° Y 01'10	18°10'15	asc. node	16260 Mar 07 13:34	14° ¥ 01′52	
morning set	16259 Apr 15 11:48	29° Y '45'02		morning max el	16260 Mar 13 02:16	17°) (46′16	18°51'48
	16259 Apr 15 15:00	0°B			16260 Mar 21 21:40	0° Υ	
desc. node	16259 Apr 23 05:52	14° 8 08'38		morning set	16260 Mar 29 09:09	14° Y ′00'00	
					16260 Apr 06 14:52	$0^{\circ}S$	
superior conj	16259 Apr 25 06:21	17° 8 47'32	-0°16'44				
minimum elong	16259 Apr 25 04:59	17° 8 41'25	0°16'58	superior conj	16260 Apr 07 00:47	0° 8 47'00	0°17'28
	16259 May 02 06:36	Π °0		minimum elong	16260 Apr 07 01:54	0° 8 52'17	0°16'59
max. Earth dist.	16259 May 02 20:45	0°∏59'38	1.41640 AU	desc. node	16260 Apr 09 02:37	4° 8 40'30	
evening rise	16259 May 07 18:47	9° Ⅱ 06'19		max. Earth dist.	16260 Apr 14 03:54		1.39398 AU
	16259 May 21 08:58	0		evening rise	16260 Apr 18 01:12	20° 8 33'51	
evening max el	16259 Jun 10 11:11	25° © 55'44	22°51'19		16260 Apr 23 18:21	Π °0	
	16259 Jun 15 07:29	0 \circ Ω			16260 May 14 11:15	0ა ௐ	
asc. node	16259 Jun 17 14:20	1° Ω 13'48		evening max el	16260 May 23 01:15	9° © 51'18	24°12'55
retrograde	16259 Jun 20 14:57	1° Ω 53′03		retrograde	16260 Jun 03 08:35	16° © 28'14	
	16259 Jun 25 08:22	30°₹∽		asc. node	16260 Jun 03 11:22	16°528'10	
evening set	16259 Jun 25 15:08	29°5645'50		evening set	16260 Jun 08 20:28	14°508'06	
inferior conj	16259 Jun 30 22:17	23° © 22'57	3°00'57	min. Earth dist.	16260 Jun 13 10:42	8° © 49'27	0.68776 AU
minimum elong	16259 Jun 30 21:14	23°526'38	3°00'09	inferior conj	16260 Jun 14 07:23	7°539'30	2°43'16
min. Earth dist.	16259 Jun 30 14:37	23°549'37	0.69149 AU	minimum elong	16260 Jun 14 05:36	7°545'32	2°42'13
morning rise	16259 Jul 06 03:11	17°5512'09		morning rise	16260 Jun 19 14:48	1°537'45	
direct	16259 Jul 10 14:22	15°522'30	210155	direct	16260 Jun 23 14:12	0°507'42	*****
morning max el	16259 Jul 19 07:30	20°524'44	21°16'27	morning max el	16260 Jul 01 05:42	4°524'43	20°02'49
desc. node	16259 Jul 20 05:18	21°520'37		desc. node	16260 Jul 06 02:30	9° © 57'23	
	16259 Jul 27 09:25	0° Ω			16260 Jul 20 06:31	0°N	
•	16259 Aug 16 23:40	0° Mp		morning set	16260 Jul 28 16:01	12° Ω 43'53	1 44504 : **
morning set	16259 Aug 19 09:31	3° Mp 45'19	1 40000 ***	max. Earth dist.	16260 Aug 07 22:02	28° Ω 43'32	1.44584 AU
max. Earth dist.	16259 Aug 26 09:26	14° m 55'59	1.42860 AU		16260 Aug 08 17:16	0° m)	

superior conj minimum elong	16260 Aug 13 10:04 16260 Aug 13 17:45	7° m 33'33 8° m 04'47	-1°55'36 1°55'20	max. Earth dist.	16261 Jul 21 15:51	13° Ω 04'49	1.45668 AU
evening rise	16260 Aug 26 15:15	29° m 38'51		superior conj	16261 Jul 24 05:31	17° Ω 06'39	-2°12'44
C	16260 Aug 26 20:12	0∘ ⊽		minimum elong	16261 Jul 24 08:41	17° Ω 19'05	2°13'12
asc. node	16260 Aug 30 11:47	6° £ 13'46		-	16261 Aug 01 08:26	0° m)	
evening max el	16260 Sep 12 23:20	26° ₽ 07'01	18°03'01	evening rise	16261 Aug 08 03:33	10° m 58'46	
retrograde	16260 Sep 19 09:21	29° ₽ 27'57		asc. node	16261 Aug 17 08:30	25° m 50'41	
evening set	16260 Sep 22 00:21	28° ≏ 52'55			16261 Aug 20 01:09	0∘ ⊽	
inferior conj	16260 Sep 28 09:18	23° ≏ 38'18	1°05'14	evening max el	16261 Aug 27 13:50	9° ≙ 45'08	18°20'03
minimum elong	16260 Sep 28 11:02	23° ≏ 33'45	1°04'51	retrograde	16261 Sep 02 23:12	13° ≏ 09'22	
min. Earth dist.	16260 Oct 01 04:17	20° ≏ 42'28	0.62644 AU	evening set	16261 Sep 05 23:04	12° ≏ 19'47	
desc. node	16260 Oct 01 23:51	19° ≙ 54'04		inferior conj	16261 Sep 11 20:15	6° ≏ 49'06	1°58'44
morning rise	16260 Oct 04 19:22	17° ≏ 29'46		minimum elong	16261 Sep 11 22:34	6° ≏ 42'19	1°58'05
direct	16260 Oct 11 11:44	15° ≏ 04'06		min. Earth dist.	16261 Sep 14 02:38	4° £ 10′22	0.64736 AU
morning max el	16260 Oct 25 12:32	23° ჲ 01'33	27°55'07	morning rise	16261 Sep 17 20:34	0° £ 27'32	
	16260 Oct 31 17:50	0°M₊			16261 Sep 18 10:55	30° ₽, M)	
	16260 Nov 20 10:14	0° ∡ ¹		desc. node	16261 Sep 18 21:12	29° m 41'53	
asc. node	16260 Nov 26 12:37	11° ∡ ³30′32		direct	16261 Sep 24 08:46	27° m 52'10	
morning set	16260 Nov 28 19:04	16° ≯ 03'52			16261 Sep 30 22:01	0∘ ত	
max. Earth dist.	16260 Dec 03 23:50	27° ∡ 00′50	1.31747 AU	morning max el	16261 Oct 07 23:19	5° ≙ 47'29	27°21'15
	16260 Dec 05 08:46	0° ප			16261 Oct 26 12:20	0° M	
				morning set	16261 Nov 12 07:52	29°M25'07	
superior conj	16260 Dec 06 08:27	2°る09'47	1°19'43		16261 Nov 12 14:59	0° ∡ 7	
minimum elong	16260 Dec 06 06:18	1°る58'00	1°20'10	asc. node	16261 Nov 13 09:32	1° 🗷 31'47	1 22064 444
evening rise	16260 Dec 13 02:39	17° る 01'23		max. Earth dist.	16261 Nov 16 18:57	8° ∡ ¹25′00	1.32964 AU
1 1	16260 Dec 19 09:29	0°≈			1/2/1 N 20 12 57	160 710015	1001127
desc. node	16260 Dec 28 22:17	16°≈18'37	24912107	superior conj	16261 Nov 20 12:57	16° ₹ 19'15	1°01'36
evening max el	16261 Jan 06 20:55 16261 Jan 10 04:04	27°≈11'08 0°) €	24°13'06	minimum elong	16261 Nov 20 10:35 16261 Nov 26 20:58	16°♂06'35 0°舌	1°01'53
ratragrada	16261 Jan 20 11:08	0 K 3° ¥ 56'34		ovening rice	16261 Nov 26 20.38 16261 Nov 27 13:19	0 3 1° る 27'37	
retrograde evening set	16261 Jan 25 11:45	3° ∺ 01'33		evening rise	16261 Nov 27 13.19 16261 Dec 13 06:06	1°⊗2/3/	
min. Earth dist.	16261 Jan 31 08:36	0° ₩ 06'31	0.55517 AU	desc. node	16261 Dec 15 19:14	0 ≈ 3°≈17'53	
iiiii. Lartii dist.	16261 Jan 31 12:58	30°R≈	0.33317 AG	evening max el	16261 Dec 19 06:36	7°≈05'34	22°29'21
inferior conj	16261 Feb 02 09:51	28°≈52'01	-5°26'12	retrograde	16262 Jan 01 02:35	13°≈26′24	22 2) 21
minimum elong	16261 Feb 02 18:05	28°≈39'33	5°24'14	evening set	16262 Jan 04 20:51	12°≈55'22	
morning rise	16261 Feb 11 02:18	24°≈53'18	3 2 1 1 1	min. Earth dist.	16262 Jan 12 14:37	9° ≈ 24'41	0.54531 AU
direct	16261 Feb 13 10:46	24°≈38'57		inferior conj	16262 Jan 13 06:24	9°≈02'29	
asc. node	16261 Feb 22 10:54	28° ≈ 26'41		minimum elong	16262 Jan 13 07:17	9° ≈ 01'15	6°01'18
morning max el	16261 Feb 23 19:22	29° ≈ 40'34	19°56'11	morning rise	16262 Jan 21 18:48	5°≈14'47	
Č	16261 Feb 24 03:14	0°)		direct	16262 Jan 24 22:55	4°≈52'03	
morning set	16261 Mar 13 13:52	28°) 32′28		morning max el	16262 Feb 05 21:33	10° ≈ 38'12	21°23'39
	16261 Mar 14 07:05	$0^{\circ}\mathbf{\Upsilon}$		asc. node	16262 Feb 09 08:12	14° ≈ 23'38	
					16262 Feb 19 08:08	0°)	
superior conj	16261 Mar 21 09:46	14° Y 24'46	0°46'11	morning set	16262 Feb 25 23:08	13°) 14′07	
minimum elong	16261 Mar 21 12:05	14° Y 36'17	0°45'41				
desc. node	16261 Mar 26 23:19	25° Ƴ 11'17		superior conj	16262 Mar 05 05:24	28°) 30′14	1°08'38
max. Earth dist.	16261 Mar 27 10:30	26° Ƴ 03'42	1.37108 AU	minimum elong	16262 Mar 05 07:55	28°) 43′14	1°08'21
	16261 Mar 29 13:40	9° 8			16262 Mar 05 22:45	0 ° $\mathbf{\gamma}$	
evening rise	16261 Mar 31 03:30	2° 8 50'56		max. Earth dist.	16262 Mar 09 20:44	7° Y 56′06	1.35002 AU
	16261 Apr 16 20:07	Π°		evening rise	16262 Mar 13 22:25	15° Y 48'42	
evening max el	16261 May 05 14:45	23° ∏ 45'46	25°29'37	desc. node	16262 Mar 13 20:00	15° Ƴ 37'17	
	16261 May 14 00:31	0°9			16262 Mar 21 20:44	0° 8	
retrograde	16261 May 17 21:59	0°952'54			16262 Apr 11 08:13	0°II	
asc. node	16261 May 21 08:28	0°504'40		evening max el	16262 Apr 18 04:22	7° I 33'31	26°34'03
	16261 May 21 12:16	30°RⅡ		retrograde	16262 May 01 06:17	14° Ⅱ 59'28	
evening set	16261 May 23 21:03	28° Ⅱ 23'44	0.67025 ATT	evening set	16262 May 07 15:04	12° Ⅱ 26'38	
min. Earth dist.	16261 May 28 03:43	23° II 42'05	0.67925 AU	asc. node	16262 May 08 05:36	11° II 55'50	0.66617 ATT
inferior conj minimum elong	16261 May 29 13:32 16261 May 29 11:22	21° Ⅲ 53'08 22° Ⅲ 00'08	2°14'42 2°13'27	min. Earth dist.	16262 May 11 15:41 16262 May 13 14:36	8° Ⅲ 20'11 5° Ⅲ 59'11	0.66617 AU 1°34'22
morning rise	16261 May 29 11:22 16261 Jun 04 02:09	16° Ⅱ 01'42	2 1321	minimum elong	16262 May 13 14:36 16262 May 13 12:35	5° Ц 3911 6° Ц 05'18	1°34'22 1°33'07
direct	16261 Jun 07 14:26	16 H 01 42 14° H 51'00		morning rise	16262 May 19 11:12	0° П 19'24	1 3301
morning max el	16261 Jun 14 11:15	14 Ⅱ 31 00 18° Ⅱ 34'25	19°03'36	morning 1150	16262 May 19 11.12 16262 May 20 02:20	30°R 8	
desc. node	16261 Jun 22 23:37	18 II 34 23 29° II 12'15	17 03 30	direct	16262 May 20 02.20 16262 May 22 13:08	29° 8 26'25	
2000. HOGO	16261 Jun 23 12:58	0°9		211001	16262 May 25 01:12	0°Ⅱ	
greatest brilliancy	16261 Jun 27 11:25	5°947'28	-0.7m	morning max el	16262 May 28 23:12	2° ∏ 49'24	18°20'39
morning set	16261 Jul 07 23:07	21°949'11		desc. node	16262 Jun 09 20:40	18° I 55'17	2007
-0	16261 Jul 13 06:06	0°Ω			16262 Jun 16 21:18	0°ඉ	
						. =	

morning set	16262 Jun 18 01:28	1° 9 51'45		superior conj minimum elong	16263 Jun 13 06:36 16263 Jun 12 22:03	5°\$55'36 5°\$21'39	
superior conj	16262 Jul 03 14:48	26° © 19'44	-2°10'36	max. Earth dist.	16263 Jun 17 07:50	12° © 19'15	1.45619 AU
minimum elong	16262 Jul 03 10:12	26°901'50		max. Lartii dist.	16263 Jun 28 17:48	0°Ω	1.43017710
max. Earth dist.	16262 Jul 04 11:58	27° © 42'15	1.46021 AU	evening rise	16263 Jun 29 06:16	0° Ω 47'43	
man. Darm uist.	16262 Jul 05 23:20	0°Ω	1.10021110	greatest brilliancy	16263 Jul 13 13:06	22°Ω16'29	-0.6m
evening rise	16262 Jul 19 14:45	21° Ω 16'09		greatest similare)	16263 Jul 19 01:17	0° m	0.0111
evening noe	16262 Jul 25 04:58	0° m)		asc. node	16263 Jul 22 01:59	3° m/ 52'06	
greatest brilliancy	16262 Jul 29 09:19	6° m) 27'40	-0.8m	evening max el	16263 Jul 25 07:45	7° m) 27'43	19°44'56
asc. node	16262 Aug 04 05:14	15° m 06'06		retrograde	16263 Aug 01 17:03	11° m) 36'22	
evening max el	16262 Aug 11 01:19	23° m) 33'55	18°54'22	evening set	16263 Aug 05 12:29	10° m) 12'30	
retrograde	16262 Aug 17 18:43	27° m/14'18		inferior conj	16263 Aug 10 20:20	4° m/ 15'28	2°57'39
evening set	16262 Aug 21 04:01	26° Mp 08'10		minimum elong	16263 Aug 10 21:39	4° m) 11'03	2°57'07
inferior conj	16262 Aug 26 16:56	20° m 23'34	2°35'23	min. Earth dist.	16263 Aug 11 23:00	2° m/46'07	0.67853 AU
minimum elong	16262 Aug 26 18:59	20° Mp 17'04	2°34'46		16263 Aug 14 03:41	30° R Ω	
min. Earth dist.	16262 Aug 28 09:31	18° TQ 15'05	0.66502 AU	morning rise	16263 Aug 16 06:18	27° Ω 49'19	
morning rise	16262 Sep 01 09:03	13° m 56'48		direct	16263 Aug 22 00:24	25° Ω 19′07	
desc. node	16262 Sep 05 18:33	11°Mp32'31		desc. node	16263 Aug 23 15:53	25° Ω 29'52	
direct	16262 Sep 07 13:25	11° m)20'07			16263 Aug 31 08:08	0° m	
morning max el	16262 Sep 20 10:57	18° m 59'31	26°19'49	morning max el	16263 Sep 02 21:59	2°m/26'34	25°00'14
	16262 Sep 29 19:44	0∘ ⊽			16263 Sep 23 22:01	0∘ ত	
	16262 Oct 19 13:03	0° M		morning set	16263 Oct 08 16:40	24° ≏ 16'51	
morning set	16262 Oct 26 08:21	12°M12'19			16263 Oct 11 20:46	0° M	
max. Earth dist.	16262 Oct 30 04:09	19° M 31'24	1.34712 AU	max. Earth dist.	16263 Oct 12 05:07	0° ™ 38′25	1.36892 AU
asc. node	16262 Oct 31 06:22	21°M40'27		asc. node	16263 Oct 18 03:09	11°M52'34	
superior conj	16262 Nov 04 10:38	0° ∡ '07'31	0°37'19	superior conj	16263 Oct 18 22:31	13° M 27'31	0°07'17
minimum elong	16262 Nov 04 08:44	29° ™ 57'44	0°37'32	minimum elong	16263 Oct 18 22:02	13°M25'10	0°07'37
	16262 Nov 04 09:11	0° ∡		behind sun begin	16263 Oct 18 16:15	12°M56'44	
evening rise	16262 Nov 11 22:17	15° ∡ 748'12		behind sun end	16263 Oct 19 03:50	13°M53'39	
	16262 Nov 19 01:07	0°る	2005.41.5	evening rise	16263 Oct 27 03:22	29°M58'04	
evening max el	16262 Dec 01 00:08	17°る19'04	20°54'17		16263 Oct 27 03:45	0° ∡ ⁷	10020120
desc. node	16262 Dec 02 16:15	18°る51'18 23°る01'17		evening max el	16263 Nov 13 07:50	28°水18'25 0°る	19°38'30
retrograde evening set	16262 Dec 12 12:23 16262 Dec 15 02:34	23 るの117 22° る 45'13		desc. node	16263 Nov 15 04:33 16263 Nov 19 13:20	0 る 2° る 34'53	
inferior conj	16262 Dec 23 21:07	18° る 53'43	-5°37'12	retrograde	16263 Nov 23 04:41	2 03433 3° る 14'22	
minimum elong	16262 Dec 23 13:20	18 3 5345	5°35'15	evening set	16263 Nov 25 04:41 16263 Nov 25 04:26	3°る03'16	
min. Earth dist.	16262 Dec 24 20:01	18°る21'00	0.54456 AU	evening set	16263 Dec 02 06:13	30°R. ₹	
morning rise	16263 Jan 01 00:07	15° る 00'07	0.54450710	inferior conj	16263 Dec 03 20:41	29°×7'00'12	-4°19'29
direct	16263 Jan 05 06:17	14° る 21'04		minimum elong	16263 Dec 03 10:51	29° х 15'42	4°15'45
morning max el	16263 Jan 18 10:45	20° る 47'35	23°08'55	min. Earth dist.	16263 Dec 06 03:46	27° х 33′28	0.55317 AU
Ü	16263 Jan 26 03:45	0° ≈		morning rise	16263 Dec 11 15:33	24° ∡ °42'25	
asc. node	16263 Jan 27 05:28	1° ≈ 33'51		direct	16263 Dec 16 21:58	23° ∡ ¹40'40	
morning set	16263 Feb 10 10:39	27° ≈ 57'44			16263 Dec 30 02:40	8°0	
	16263 Feb 11 09:29	0°) €		morning max el	16263 Dec 30 19:02	0° る 38'12	24°58'14
				asc. node	16264 Jan 14 02:41	19° る 40'06	
superior conj	16263 Feb 17 08:28	12°) 53′33	1°24'41		16264 Jan 19 19:12	0° ≈	
minimum elong	16263 Feb 17 10:29	13°) €04'25	1°24'45	morning set	16264 Jan 25 22:33	12° ≈ 38′22	
max. Earth dist.	16263 Feb 20 13:53	19°) 44'37	1.33262 AU				
evening rise	16263 Feb 25 06:25	29° ∺ 17′23		superior conj	16264 Feb 01 16:25	27° ≈ 27'49	1°34'28
	16263 Feb 25 15:04	0° Υ		minimum elong	16264 Feb 01 17:34	27° ≈ 34'10	1°34'50
desc. node	16263 Feb 28 16:40	5° Y ′53'43			16264 Feb 02 20:06	0° ∀	
	16263 Mar 14 23:38	0° 8		max. Earth dist.	16264 Feb 03 14:35	1°) 41′03	1.31989 AU
evening max el	16263 Mar 31 17:45	21° 8 04'51	27°18'47	evening rise	16264 Feb 09 00:25	13°) €09'38	
retrograde	16263 Apr 14 08:29	28° 8 37'53		desc. node	16264 Feb 15 13:22	25°) €55'58	
evening set	16263 Apr 21 00:24	26° 8 08'06	0.64000.477		16264 Feb 17 19:07	0° Υ	
min. Earth dist.	16263 Apr 24 20:40	22° 8 33'42	0.64900 AU		16264 Mar 09 06:21	0°8	27027121
asc. node	16263 Apr 25 02:48	22° 8 17'15	0041100	evening max el	16264 Mar 13 05:28	4° 8 08'38	2/~36'31
inferior conj	16263 Apr 27 08:03	19° 8 50'36	0°41'00 0°40'07	retrograde	16264 Mar 27 03:19	11° 8 38'47	
minimum elong	16263 Apr 27 06:57	19° 8 53'39 14° 8 24'13	0 400/	evening set min. Earth dist.	16264 Apr 02 22:37	9° 8 19'23 6° 8 12'17	0.62865 AU
morning rise direct	16263 May 03 15:28 16263 May 06 08:02	13° 8 46'16		inferior conj	16264 Apr 06 16:55 16264 Apr 09 14:56	3° 8 20'09	
morning max el	16263 May 12 15:21	13 840 10 17°801'20	17°54'41	minimum elong	16264 Apr 09 15:48	3° 8 18'01	0°26'20
morning max ci	16263 May 22 05:26	0°Ⅱ	1/ 5771	asc. node	16264 Apr 11 00:03	1° 8 59'54	0 2020
desc. node	16263 May 27 17:36	8° П 58'07		abc. 110de	16264 Apr 13 07:32	1 O3934 30°RΥ	
morning set	16263 May 30 06:56	13° Ⅱ 11'43		morning rise	16264 Apr 16 11:47	28° Υ ′09'34	
	16263 Jun 09 13:36	0°95		direct	16264 Apr 18 20:16	27° Υ '43'21	
					p 20.10		

27°**升**51'45 18°25'23

16266 Mar 23 11:15

morning max el

0°8

16265 Apr 19 13:45

	16266 Mar 25 10:26	0° Ƴ		asc. node	16267 Mar 02 16:02	7°){ 18'16	
morning set	16266 Apr 08 06:39	23° Υ 06'19		morning max el	16267 Mar 06 12:01		19°16'21
morning set	16266 Apr 11 21:19	0° 8		morning max cr	16267 Mar 19 11:31	0° Υ	19 10 21
desc. node	16266 Apr 17 08:05	10° 8 12'17		morning set	16267 Mar 23 07:32	7° Υ 30'17	
dese. Hode	10200 11p1 17 00.00	10 01217		morning set	10207 17141 23 07.32	7 13017	
superior conj	16266 Apr 17 12:47	10° 8 33'56	-0°01'39	superior conj	16267 Mar 31 14:00	23° Y ′51'57	0°30'23
minimum elong	16266 Apr 17 12:38	10° 8 33'13	0°02'01	minimum elong	16267 Mar 31 15:46	24° Y ′00'29	0°29'51
behind sun begin	16266 Apr 17 05:27	10° 8 00'13		C	16267 Apr 03 19:16	0°8	
behind sun end	16266 Apr 17 19:49	11° 8 06'08		desc. node	16267 Apr 04 04:50	0° 8 44'49	
max. Earth dist.	16266 Apr 25 01:09	23° 8 54'10	1.40699 AU	max. Earth dist.	16267 Apr 07 07:10	6° 8 26'21	1.38409 AU
	16266 Apr 28 15:52	$\Pi^{\circ}0$		evening rise	16267 Apr 11 00:34	13° 8 02'25	
evening rise	16266 Apr 29 09:18	1° Ⅱ 12'11			16267 Apr 21 08:02	Π °0	
	16266 May 18 06:38	0 \circ			16267 May 13 08:20	0 \circ \odot	
evening max el	16266 Jun 02 18:00	19° 5 011'42	23°26'10	evening max el	16267 May 16 07:29	3° 5 06'46	24°46'34
asc. node	16266 Jun 11 16:41	25° © 14'38		retrograde	16267 May 28 01:51	9° © 58'43	
retrograde	16266 Jun 13 09:45	25° © 27'10		asc. node	16267 May 29 13:43	9° 5 49'21	
evening set	16266 Jun 18 15:00	23° © 13'46		evening set	16267 Jun 02 18:31	7° 5 34'08	
inferior conj	16266 Jun 23 23:29	16° © 47'55	2°54'43	min. Earth dist.	16267 Jun 07 05:17	2° © 31'13	0.68467 AU
minimum elong	16266 Jun 23 22:06	16° © 52'43	2°53'51	inferior conj	16267 Jun 08 07:34	1° © 03'51	2°32'31
min. Earth dist.	16266 Jun 23 10:11	17° 5 33'44	0.69045 AU	minimum elong	16267 Jun 08 05:34	1° © 10'29	2°31'23
morning rise	16266 Jun 29 05:09	10° © 40'59			16267 Jun 09 02:53	30°Ŗ Ⅱ	
direct	16266 Jul 03 11:10	8° © 59'51		morning rise	16267 Jun 13 16:51	25° ∏ 06'12	
morning max el	16266 Jul 11 16:50	13° © 41'50	20°43'39	direct	16267 Jun 17 11:20	23° ∏ 44'38	
desc. node	16266 Jul 14 07:41	16° © 30'33		morning max el	16267 Jun 24 18:09	27° ∏ 46′18	19°35'40
	16266 Jul 24 14:09	0 $^{\circ}\Omega$			16267 Jun 26 20:31	0ა ௐ	
morning set	16266 Aug 10 07:41	24° Ω 58′28		desc. node	16267 Jul 01 04:52	5° © 24'59	
	16266 Aug 13 13:00	0° m)		greatest brilliancy	16267 Jul 07 13:28	14°9522'56	-0.6m
max. Earth dist.	16266 Aug 18 15:09	8° m) 05'22	1.43658 AU		16267 Jul 17 23:02	0°N	
	160664 05.05.05	100 200 0010 1	1020110	morning set	16267 Jul 20 11:44	3° Ω 52'16	1 45105 477
superior conj	16266 Aug 25 07:35	19° Mp 02'34		max. Earth dist.	16267 Aug 01 05:33	22° Ω 06'34	1.45125 AU
minimum elong	16266 Aug 25 15:20	19° m 34'55	1°38'32		1/2/7 4 05 14 22	200 002155	2004150
	16266 Aug 31 18:20	0° ⊽		superior conj	16267 Aug 05 14:32	29° Ω 02'55 29° Ω 28'48	
evening rise	16266 Sep 06 12:06	10° Ω 02'05 12° Ω 10'43		minimum elong	16267 Aug 05 21:00	29° 3′c 28°48	2 05 01
asc. node	16266 Sep 07 17:19 16266 Sep 18 10:11	0°M		evening rise	16267 Aug 06 04:48 16267 Aug 19 13:59	21°Mp 56'37	
evening max el	16266 Sep 23 01:35	5°M45'03	18°01'18	evening rise	16267 Aug 19 13.39 16267 Aug 24 09:43	0° ⊽	
retrograde	16266 Sep 29 16:27	9°M10'31	16 01 16	asc. node	16267 Aug 25 14:00	0 == 1° ⊆ 57'10	
evening set	16266 Oct 02 02:29	8°M42'47		evening max el	16267 Sep 06 16:33	19° £ 13'55	18°08'11
inferior conj	16266 Oct 08 19:46	3°M38'36	0°25'49	retrograde	16267 Sep 13 01:17	22° Ω 34'40	10 00 11
minimum elong	16266 Oct 08 20:33	3°M36'40		evening set	16267 Sep 15 19:55	21° ⊆ 53'53	
desc. node	16266 Oct 10 04:58	2°M16'24	0 25 51	inferior conj	16267 Sep 21 23:28	16° ⊆ 32'28	1°30'06
min. Earth dist.	16266 Oct 11 20:37	0°M40'23	0.61339 AU	minimum elong	16267 Sep 22 01:35	16° £ 26'37	1°29'33
mm. Burur Gibt.	16266 Oct 12 14:09	30°R Ω	0.01229110	min. Earth dist.	16267 Sep 24 13:30	13° Ω 41'41	0.63563 AU
morning rise	16266 Oct 15 11:44	27° ≏ 41'21		desc. node	16267 Sep 27 02:17	11° ≏ 12'35	
direct	16266 Oct 22 04:03	25° ≏ 25'00		morning rise	16267 Sep 28 05:14	10° ≏ 17'17	
	16266 Nov 01 15:32	0°M₊		direct	16267 Oct 04 20:30	7° Ω 46'03	
morning max el	16266 Nov 05 08:40	3°M₁9'55	27°59'02	morning max el	16267 Oct 18 17:40	15° ≏ 44'46	27°44'35
	16266 Nov 25 02:43	0° ∡ ¹			16267 Oct 30 11:28	0° M	
asc. node	16266 Dec 04 18:01	17° ∡ ¹25'54			16267 Nov 17 19:36	0°∡7	
morning set	16266 Dec 08 18:22	25° ∡ ³32′02		asc. node	16267 Nov 21 14:57	7° ∡ °21′03	
	16266 Dec 10 21:16	ರ°0		morning set	16267 Nov 22 12:45	9° ∡ ¹09'51	
max. Earth dist.	16266 Dec 14 10:03	7° る 40'16	1.31298 AU	max. Earth dist.	16267 Nov 27 09:42	19° ∡ 15′05	1.32190 AU
superior conj	16266 Dec 16 00:54	11° る 15'12	1°27'21	superior conj	16267 Nov 30 08:10	25° х 34′32	1°12'49
minimum elong	16266 Dec 15 23:07	11° る 05'16	1°27'53	minimum elong	16267 Nov 30 05:51	25° ∡ ¹21'59	1°13'10
evening rise	16266 Dec 22 17:38	26° る 03'49			16267 Dec 02 08:44	0°₹	
	16266 Dec 24 13:46	0° ≈		evening rise	16267 Dec 07 04:23	10° る 31'14	
desc. node	16267 Jan 06 03:42	23° ≈ 23'15			16267 Dec 16 23:49	0° ≈	
	16267 Jan 10 16:15	0° ∀		desc. node	16267 Dec 24 00:36	11° ≈ 02'09	
evening max el	16267 Jan 18 05:12	8°) 42′52	25°09'45	evening max el	16267 Dec 30 15:12	18° ≈ 45′24	23°29'03
retrograde	16267 Feb 01 01:23	15° ¥ 39′21		retrograde	16268 Jan 12 23:37	25° ≈ 21'45	
evening set	16267 Feb 06 16:03	14°) €28'29		evening set	16268 Jan 17 11:35	24°≈38'00	
min. Earth dist.	16267 Feb 11 17:39	11°) (44'42	0.56417 AU	min. Earth dist.	16268 Jan 24 02:15	21°≈30'00	0.54996 AU
inferior conj	16267 Feb 14 08:41	10°) €02'15		inferior conj	16268 Jan 25 14:20	20°≈37'30	
minimum elong	16267 Feb 14 18:08	9°) (46′53	4°42'30	minimum elong	16268 Jan 25 20:10		5°46'43
morning rise	16267 Feb 22 22:52	5°) 53'09		morning rise	16268 Feb 03 06:10	16°≈44'34	
direct	16267 Feb 25 00:45	5°) 40'47		direct	16268 Feb 05 21:33	16° ≈ 27'36	

morning max el	16268 Feb 16 22:58	21° ≈ 48'51	20°30'34	morning rise	16269 Jan 12 15:11	26° る 48'04	
asc. node	16268 Feb 17 13:22	22° ≈ 24'36		direct	16269 Jan 16 06:29	26° る 19'06	
	16268 Feb 23 13:39	0° ∀			16269 Jan 25 23:55	0°≈	
morning set	16268 Mar 06 14:30	22° ₭ 07'32		morning max el	16269 Jan 28 18:49	2° ≈ 23'05	22°06'41
	16268 Mar 10 09:47	$0^{\circ}\mathbf{\Upsilon}$		asc. node	16269 Feb 03 10:39	8° ≈ 54'54	
					16269 Feb 15 17:39	0° ₩	
superior conj	16268 Mar 14 03:56	7° Y ′42'38	0°56'28	morning set	16269 Feb 19 00:58	6°) 50'47	
minimum elong	16268 Mar 14 06:26	7° Υ 55'18	0°56'03	morning out	10207100 17 00.00	0 7(00 17	
max. Earth dist.	16268 Mar 19 14:30	18° Υ 27'36	1.36182 AU	superior conj	16269 Feb 26 03:03	21° ¥ 56′25	1°16'12
		21° Υ 14'10	1.30162 AU			21 \(\chi_{30} \)23\(\chi_{30}	
desc. node	16268 Mar 21 01:32			minimum elong	16269 Feb 26 05:25		1°16'05
evening rise	16268 Mar 23 10:26	25° Y 38′25		max. Earth dist.	16269 Mar 02 03:43		1.34222 AU
	16268 Mar 25 20:26	0°B			16269 Mar 02 00:15	0° Υ	
	16268 Apr 13 20:08	Π °0		evening rise	16269 Mar 06 11:20	8° Y 50′26	
evening max el	16268 Apr 27 21:07	16° Ⅱ 59'39	25°59'02	desc. node	16269 Mar 07 22:13	11° Y 36'36	
retrograde	16268 May 10 13:14	24° Ⅱ 16′14			16269 Mar 18 09:59	8° 0	
asc. node	16268 May 15 10:49	22° Ⅱ 40'51			16269 Apr 09 17:49	$\Pi^{\circ}0$	
evening set	16268 May 16 16:30	21° Ⅱ 45′07		evening max el	16269 Apr 10 11:00	0° Ⅱ 42'24	26°55'56
min. Earth dist.	16268 May 20 20:31	17° Ⅱ 18′23	0.67420 AU	retrograde	16269 Apr 23 18:50	8° Ⅱ 11'43	
inferior conj	16268 May 22 11:50	15° Ⅱ 15'02	1°59'07	evening set	16269 Apr 30 07:04	5° Ⅱ 39'34	
minimum elong	16268 May 22 09:39	15° Ⅲ 21'54	1°57'50	asc. node	16269 May 02 07:59	3° Ⅱ 49'43	
morning rise	16268 May 28 03:28	9° Ⅲ 28'04	1 37 30	min. Earth dist.	16269 May 04 05:44	1° Ⅱ 47'08	0.65937 AU
•	•	9 П 28 04 8° П 25'06		iiiii. Eartii tiist.	•	30°R\text{8}	0.03937 AU
direct	16268 May 31 11:14		10042112		16269 May 05 18:49		1012125
morning max el	16268 Jun 07 02:30	11° Ⅱ 58'24	18°43'12	inferior conj	16269 May 06 10:00	_	1°13'25
desc. node	16268 Jun 17 01:57	24° Ⅱ 52'56		minimum elong	16269 May 06 08:15	_	1°12'14
	16268 Jun 20 11:25	0 \circ \odot		morning rise	16269 May 12 10:49	23° 8 41'11	
greatest brilliancy	16268 Jun 21 23:04	2° © 16'40	-0.8m	direct	16269 May 15 08:45	22° 8 54'47	
morning set	16268 Jun 29 01:11	13° © 16'47		morning max el	16269 May 21 16:29	26° 8 12'39	18°07'28
	16268 Jul 09 18:48	$0^{\circ}\Omega$			16269 May 25 00:48	Π \circ 0	
max. Earth dist.	16268 Jul 14 00:25	6° Ω 35'53	1.45909 AU	desc. node	16269 Jun 03 22:59	14° Ⅱ 45'12	
				morning set	16269 Jun 09 14:52	23° II 52'01	
superior conj	16268 Jul 15 03:48	8° Ω 22'45	-2°14'21	C	16269 Jun 13 10:19	0ം ഉ	
minimum elong	16268 Jul 15 03:39	8° Ω 22'12					
	16268 Jul 28 21:03	0° m/y		superior conj	16269 Jun 24 13:41	17°539'36	-2°03'39
evening rise	16268 Jul 30 15:28	2° m/49'03		minimum elong	16269 Jun 24 06:39	17°512'02	
asc. node	16268 Aug 11 10:42			Č	16269 Jun 26 21:17		1.45943 AU
asc. node	Č	21° ™ 25'50 0° Ω		max. Earth dist.		21 3 1/01 0° Ω	1.43943 AU
	16268 Aug 17 14:15		10022142		16269 Jul 02 11:44		
evening max el	16268 Aug 20 06:09	2° ₽ 57'58	18°32'42	evening rise	16269 Jul 10 16:59	12° Ω 43'14	
retrograde	16268 Aug 26 17:47	6° Ω 27'10			16269 Jul 21 23:52	0° m)	
evening set	16268 Aug 29 21:40	5° ჲ 30'40		greatest brilliancy	16269 Jul 22 14:19	0° m 54'03	-0.7m
inferior conj	16268 Sep 04 14:56	29° m 54'04	2°16'10	asc. node	16269 Jul 29 07:26	10° Mp 29'32	
minimum elong	16268 Sep 04 17:13	29° m 47'08	2°15'31	evening max el	16269 Aug 03 15:42	16° Mp 49'21	19°14'02
	16268 Sep 04 12:59	30°R, Mp		retrograde	16269 Aug 10 14:46	20° m 40'05	
min. Earth dist.	16268 Sep 06 15:33	27° m 26'52	0.65533 AU	evening set	16269 Aug 14 04:24	19° m 26'16	
morning rise	16268 Sep 10 11:33	23° Mp 29'46		inferior conj	16269 Aug 19 14:46	13° m 36'06	2°46'29
desc. node	16268 Sep 12 23:37	21° mp 49'41		minimum elong	16269 Aug 19 16:32	13° m 30'19	2°45'53
direct	16268 Sep 16 20:58	20° m/52'42		min. Earth dist.	16269 Aug 21 01:19	11° Mp 43'46	0.67130 AU
morning max el	16268 Sep 30 04:48	28° m 42'33	26°58'00	morning rise	16269 Aug 25 04:01	7° m) 09'15	
	16268 Oct 01 10:47	0∘ ⊽		desc. node	16269 Aug 30 20:59	4° m/35'06	
	16268 Oct 23 06:59	0° ™		direct	16269 Aug 31 04:14	4° Mp 34'45	
mamina sat	16268 Nov 04 20:43						25947144
morning set		22°M17'39		morning max el	16269 Sep 12 16:14	12° Mp 01'42	23 47 44
asc. node	16268 Nov 07 11:49	27°M26'13			16269 Sep 27 03:11	ია ო	
	16268 Nov 08 18:32	0° ∡			16269 Oct 15 23:00	0° M ₅	
max. Earth dist.	16268 Nov 09 00:35	0° ,⊼ 30'33	1.33646 AU	morning set	16269 Oct 18 14:45	4° M 47′05	
				max. Earth dist.	16269 Oct 22 06:06	11°ML35'01	1.35600 AU
superior conj	16268 Nov 13 10:06	9° ∡ ³36′19	0°52'04	asc. node	16269 Oct 25 08:37	17°M36'27	
minimum elong	16268 Nov 13 07:50	9° ∡ ¹24'21	0°52'18				
evening rise	16268 Nov 20 14:34	24° х ⁵56′03		superior conj	16269 Oct 28 03:59	23°ML13'01	0°25'15
	16268 Nov 23 00:36	0°₹		minimum elong	16269 Oct 28 02:34	23°ML05'49	0°25'30
desc. node	16268 Dec 09 21:32	27° る 28'05		-	16269 Oct 31 11:30	0° ∡ 7	
evening max el	16268 Dec 11 03:13	28° ප් 44'15	21°47'05	evening rise	16269 Nov 04 22:09	9° ∡ 12'34	
5	16268 Dec 12 11:52	0° ≈		2 ·	16269 Nov 15 23:29	0°ප	
retrograde	16268 Dec 23 10:48	4° ≈ 49'27		evening max el	16269 Nov 23 02:17	9° る 14'28	20°19'20
evening set	16268 Dec 26 16:18	4°≈26'02		desc. node	16269 Nov 26 18:34	12°る17'30	> -0
inferior conj	16269 Jan 04 06:38	4 ≈20 02 0°≈35'55	_5°50'02	retrograde	16269 Dec 03 21:53	12 3 1730 14° る 37'28	
				-			
minimum elong	16269 Jan 04 03:24	0°≈40'26		evening set	16269 Dec 06 04:13	14°る24'24	5000115
min. Earth dist.	16269 Jan 04 07:28		0.54392 AU	inferior conj	16269 Dec 14 23:20	10°る28'58	
	16269 Jan 05 08:26	30°Ŗ₹		minimum elong	16269 Dec 14 13:44	10° る 43'08	5~06'19

	16060 D 16 10 04	00-70046	0.54516.433		1605031 14 01 00	250 711110	
min. Earth dist.	16269 Dec 16 13:04		0.54716 AU	retrograde	16270 Nov 14 21:02	25° √ 11'49	
morning rise	16269 Dec 22 22:42	6° る 27'31		evening set	16270 Nov 16 18:33	25° ∡ 100′53	
direct	16269 Dec 27 15:45	5° ⋜ 39'38		inferior conj	16270 Nov 25 06:09	20° ∡ 749'47	-3°37'18
morning max el	16270 Jan 10 04:39	12° る 19'37	23°56'04	minimum elong	16270 Nov 24 21:24	21° ҂ 04'27	3°33'34
asc. node	16270 Jan 21 07:54	26° පි 30'47		min. Earth dist.	16270 Nov 27 22:45	19° ∤ 01'41	0.55921 AU
	16270 Jan 23 10:58	0° ≈		morning rise	16270 Dec 02 21:49	16° ∤ 717'17	
morning set	16270 Feb 03 12:54	21° ≈ 34'18		direct	16270 Dec 08 12:24	15° ₹ 04'52	
	16270 Feb 07 09:57	0° ℋ		morning max el	16270 Dec 22 14:01	22° ҂ 13'53	25°41'28
				•	16270 Dec 29 10:31	0°ರ	
superior conj	16270 Feb 10 08:29	6° ¥ 25'29	1°29'35	asc. node	16271 Jan 08 05:07	14° ප 555'50	
minimum elong	16270 Feb 10 10:11	6°) (34'40	1°29'48		16271 Jan 16 02:04	0° ≈	
max. Earth dist.	16270 Feb 13 00:30		1.32664 AU	morning set	16271 Jan 19 00:26	6°≈12'03	
evening rise	16270 Feb 17 23:57	22° H 30'11	1.52004 710	morning set	102/13411 17 00.20	0 70112 03	
evening rise		22 γ (30 11 0° γ			1/071 I 05 17-51	21902122	1°36'46
	16270 Feb 21 20:00	0 1 1° Υ 47'52		superior conj	16271 Jan 25 17:51	21°≈02'23	
desc. node	16270 Feb 22 18:53			minimum elong	16271 Jan 25 18:34	21°≈06′22	1°37'14
	16270 Mar 12 03:44	0°8	25220154	max. Earth dist.	16271 Jan 27 03:42	24°≈09'48	1.31589 AU
evening max el	16270 Mar 23 23:53	14° 8 03'47	27°29'54		16271 Jan 29 19:49	0° ℋ	
retrograde	16270 Apr 06 17:54	21° 8 36'14		evening rise	16271 Feb 01 21:19	6° ∺ 29'51	
evening set	16270 Apr 13 12:01	19° 8 09'45		desc. node	16271 Feb 09 15:35	21°) 41′59	
min. Earth dist.	16270 Apr 17 07:03	15° 8 47'58	0.64073 AU		16271 Feb 14 09:06	0° Υ	
asc. node	16270 Apr 19 05:13	13° 8 47'19		evening max el	16271 Mar 06 09:52	26° Ƴ 51'05	27°34'19
inferior conj	16270 Apr 19 23:23	12° 8 59'14	0°14'13		16271 Mar 10 01:08	$_{0\circ}$ 8	
minimum elong	16270 Apr 19 22:58	13° 8 00'19	0°13'37	retrograde	16271 Mar 20 09:26	4° 8 18'55	
transit middle	16270 Apr 19 22:58	13° 8 00'19	0°13'37	evening set	16271 Mar 27 04:45	2° 8 05'43	
transit begin	16270 Apr 19 21:20	13° 8 04'37		Ç	16271 Mar 29 23:27	30° ₹ Υ	
transit end	16270 Apr 20 00:36	12° 8 56'01		min. Earth dist.	16271 Mar 30 23:02	29° Y ′08'29	0.61930 AU
morning rise	16270 Apr 26 12:13	7° 8 39'28		inferior conj	16271 Apr 03 00:44	26°Υ16'45	
direct	16270 Apr 29 01:16	7° 8 06'51		minimum elong	16271 Apr 03 00:44 16271 Apr 03 02:47	26°Υ11'57	0°58'33
	•	_	17040157	_	•	23° Υ 34'43	0 36 33
morning max el	16270 May 05 09:43	10° 8 21'42	17°48'56	asc. node	16271 Apr 06 02:32		
	16270 May 18 21:54	0°II		morning rise	16271 Apr 10 04:00	21°Υ14'09	
desc. node	16270 May 21 19:55	4° Ⅱ 54'59		direct	16271 Apr 12 09:27	20° Y 51′59	
morning set	16270 May 22 07:38	5° Ⅱ 44'27		morning max el	16271 Apr 19 03:07	24° Y 15'41	17°48'02
					16271 Apr 23 19:31	9° 8	
superior conj	16270 Jun 04 12:49	27° Ⅱ 36'53		morning set	16271 May 04 23:02	18° 8 39'37	
minimum elong	16270 Jun 04 04:25	27° Ⅱ 03'04	1°36'07	desc. node	16271 May 08 16:46	25° 8 16'15	
	16270 Jun 06 00:27	0 \circ \odot			16271 May 11 09:41	Π $\circ 0$	
max. Earth dist.	16270 Jun 09 17:00	5° © 51'57	1.45231 AU				
evening rise	16270 Jun 20 04:30	22° © 07'54		superior conj	16271 May 16 10:07	8° Ⅱ 35'26	-1°00'08
	16270 Jun 25 08:51	$0^{\circ}\Omega$		minimum elong	16271 May 16 04:37	8° Ⅱ 12'14	0°59'57
asc. node	16270 Jul 16 04:13	28° Ω 59'59		max. Earth dist.	16271 May 23 09:04		1.43852 AU
	16270 Jul 17 02:29	0° m)			16271 May 29 15:21	0ಂತ	
evening max el	16270 Jul 17 19:32	0° mp 43'32	20°10'48	evening rise	16271 May 30 18:29	1°9545'30	
retrograde	16270 Jul 25 13:44	5° Mp 07'42	20 10 10	evening rise	16271 Jun 18 21:27	0°Ω	
evening set	16270 Jul 29 13:43	3° m) 36'02		evening max el	16271 Jun 30 17:22	14° Ω 37'52	21°20'30
evening set	16270 Aug 02 00:16	30°R Ω		asc. node	16271 Jul 03 01:06	14° 0 45′24	21 20 39
	•		2002117				
inferior conj	16270 Aug 03 20:15	27° Ω 33'46	3°03'17	retrograde	16271 Jul 09 12:38	19° Ω 43'56	
minimum elong	16270 Aug 03 21:11	27° Ω 30'34	3°02'45	evening set	16271 Jul 13 23:36	17° Ω 54'53	2000121
min. Earth dist.	16270 Aug 04 17:00	26° Ω 23'04	0.68289 AU	inferior conj	16271 Jul 19 05:02	11° Ω 42'03	3°08'21
morning rise	16270 Aug 09 04:17	21° Ω 09'01		minimum elong	16271 Jul 19 05:01	11° Ω 42'06	3°07'47
direct	16270 Aug 14 17:23	18° Ω 43'55		min. Earth dist.	16271 Jul 19 12:25	11° Ω 16′20	0.68969 AU
desc. node	16270 Aug 17 18:20	19° Ω 20'37		morning rise	16271 Jul 24 10:12	5° Ω 22'37	
morning max el	16270 Aug 26 03:18	25° Ω 33'36	24°23'13	direct	16271 Jul 29 11:20	3° Ω 12′05	
	16270 Aug 30 04:37	0° m y		desc. node	16271 Aug 04 15:38	5° Ω 42'54	
	16270 Sep 20 15:06	0∘ ऌ		morning max el	16271 Aug 08 15:03	9° £ 13′25	22°54'02
morning set	16270 Sep 30 14:52	16° ≏ 29'42			16271 Aug 24 23:29	0° m)	
max. Earth dist.	16270 Oct 04 05:25	22° £ 51'26	1.37904 AU	morning set	16271 Sep 11 17:05	27° Mp 16'46	
	16270 Oct 08 02:59	0° M .		C	16271 Sep 13 08:32	0∘ ⊽	
				max. Earth dist.	16271 Sep 16 04:47	4° £ 47'32	1.40318 AU
superior conj	16270 Oct 11 10:32	6°ML17'10	-0°07'03	Zarar dist.	102,1 30р 10 04.47	. — . , 52	
minimum elong	16270 Oct 11 10:59	6°ML19'21	0°06'36	superior conj	16271 Sep 24 01:47	18° ≏ 40'23	-0.043,06
•			0 00 30		•		
behind sun begin	16270 Oct 11 04:43	5°M49'12		minimum elong	16271 Sep 24 05:08	18° £ 55'38	0°42'23
behind sun end	16270 Oct 11 17:15	6°M49'34		asc. node	16271 Sep 29 02:08	27° £ 58′21	
asc. node	16270 Oct 12 05:23	7°M48'13		_	16271 Sep 30 03:53	0° M ₊	
evening rise	16270 Oct 20 00:47	23°M15'12		evening rise	16271 Oct 03 19:29	6°M56'53	
	16270 Oct 23 11:01	0° ∡ ¹			16271 Oct 17 08:44	0° ∡ ¹	
evening max el	16270 Nov 05 15:59	20° ∡ ³34'12	19°13'00	evening max el	16271 Oct 19 18:11	2° ∡ ¹43'05	18°28'57
desc. node	16270 Nov 13 15:41	25° ∡ 07'06		retrograde	16271 Oct 27 14:49	6° ∡ ¹42'25	

evening max el

16273 Sep 15 18:52

16273 Sep 17 03:04

0°M

16272 Sep 21 14:24

16272 Oct 02 04:32

evening max el

0°M

15°M30'46 18°05'46

retrograde	16273 Sep 22 05:50	2° M .09'05		evening rise	16274 Aug 11 08:15	14° m 02'37	
evening set	16273 Sep 24 19:31	1°M36'02		asc. node	16274 Aug 19 16:12	27° m) 36'30	
evening see	16273 Sep 27 10:29	30°R ≏		use. Houe	16274 Aug 21 04:32	0° ⊽	
inferior conj	16273 Oct 01 06:31	26° £ 23'53	0°55'28	evening max el	16274 Aug 30 09:32	12° ₽ 23'03	18°16'23
minimum elong	16273 Oct 01 08:03	26° £ 19'55	0°55'10	retrograde	16274 Sep 05 18:32	15° ≏ 46'05	
min. Earth dist.	16273 Oct 04 03:06	23° £ 26'56	0.62312 AU	evening set	16274 Sep 08 16:58	14° ≏ 58'55	
desc. node	16273 Oct 04 07:25	23° ≙ 16'16		inferior conj	16274 Sep 14 15:42	9° ჲ 30'34	1°51'45
morning rise	16273 Oct 07 18:06	20° £ 17'56		minimum elong	16274 Sep 14 18:00	9° ≏ 23'56	1°51'06
direct	16273 Oct 14 10:34	17° ≙ 54'32		min. Earth dist.	16274 Sep 17 00:07	6° ≙ 48'11	0.64441 AU
morning max el	16273 Oct 28 12:33	25° ≏ 51'28	27°57'18	morning rise	16274 Sep 20 17:23	3° ≏ 10'16	
C	16273 Nov 01 09:03	0° M .		desc. node	16274 Sep 21 04:44	2° ≏ 48'30	
	16273 Nov 21 18:36	0° ⊼ ¹		direct	16274 Sep 27 06:27	0° ჲ 35'41	
asc. node	16273 Nov 28 20:20	13° ∡ 12'13		morning max el	16274 Oct 10 23:04	8° ≏ 32'38	27°28'15
morning set	16273 Dec 01 14:06	18° ∡ ⁴42'49		Č	16274 Oct 27 16:24	0°M₊	
C	16273 Dec 06 22:01	8°0			16274 Nov 14 02:10	0° ∡ ¹	
max. Earth dist.	16273 Dec 06 21:43	29° ҂ 58′20	1.31614 AU	morning set	16274 Nov 15 04:28	2° ҂ ′08'49	
				asc. node	16274 Nov 15 17:16	3° ∡ 12′10	
superior conj	16273 Dec 09 01:33	4° る 42'28	1°21'56	max. Earth dist.	16274 Nov 19 18:05	11° ∡ ¹25'27	1.32742 AU
minimum elong	16273 Dec 08 23:30	4° ට 31'05	1°22'24				
evening rise	16273 Dec 15 19:15	19° ⋜ 33'00		superior conj	16274 Nov 23 06:51	18° ∡ 54'49	1°04'45
Č	16273 Dec 20 19:17	0° ≈		minimum elong	16274 Nov 23 04:28	18° ∡ ′42′03	1°05'04
desc. node	16273 Dec 31 05:57	18° ≈ 20'32		C	16274 Nov 28 09:32	ರ°0	
	16274 Jan 09 15:10	0° ∀		evening rise	16274 Nov 30 05:59	3° ⋜ 59'45	
evening max el	16274 Jan 10 00:22	0°) 22'14	24°28'10	Ü	16274 Dec 14 03:02	0° ≈	
retrograde	16274 Jan 23 16:19	7° 升 10'46		desc. node	16274 Dec 18 02:51	5° ≈ 31'06	
evening set	16274 Jan 28 20:56	6° ₩ 11'37		evening max el	16274 Dec 22 09:48	10° ≈ 17'44	22°44'43
min. Earth dist.	16274 Feb 03 12:11	3° ¥ 20'11	0.55727 AU	retrograde	16275 Jan 04 09:35	16° ≈ 43'16	
inferior conj	16274 Feb 05 17:31	1° ¥ 58'10	-5°16'35	evening set	16275 Jan 08 08:27	16° ≈ 09'11	
minimum elong	16274 Feb 06 02:17		5°14'23	min. Earth dist.	16275 Jan 15 18:51	12° ≈ 44'55	0.54621 AU
-	16274 Feb 09 02:03	30° ₹ ≈		inferior conj	16275 Jan 16 16:11	12° ≈ 14'44	-6°00'10
morning rise	16274 Feb 14 09:44	27° ≈ 57'06		minimum elong	16275 Jan 16 18:29	12° ≈ 11'28	5°59'30
direct	16274 Feb 16 16:08	27° ≈ 43'27		morning rise	16275 Jan 25 05:43	8° ≈ 26′07	
	16274 Feb 23 13:51	0° ∀		direct	16275 Jan 28 06:08	8° ≈ 05'12	
asc. node	16274 Feb 24 18:31	0° ₩ 51'51		morning max el	16275 Feb 08 23:36	13° ≈ 45'05	21°09'14
morning max el	16274 Feb 26 19:04	2° 升 38′27	19°45'12	asc. node	16275 Feb 11 15:49	16° ≈ 36'22	
-	16274 Mar 15 18:35	$0^{\circ}\mathbf{\Upsilon}$			16275 Feb 20 15:25	0° ₩	
morning set	16274 Mar 16 07:02	1° Y 02'47		morning set	16275 Feb 28 15:45	15° ¥ 43'24	
•					16275 Mar 07 11:20	0° Y	
superior conj	16274 Mar 24 05:27	17° Y 02'04	0°42'12				
minimum elong	16274 Mar 24 07:39	17° Ƴ 12'57	0°41'42	superior conj	16275 Mar 07 23:43	1° Y '03'59	1°05'37
desc. node	16274 Mar 29 07:02	26° Ƴ 48'00		minimum elong	16275 Mar 08 02:14	1° Y 17'02	1°05'18
max. Earth dist.	16274 Mar 30 10:51	28° Y 57'43	1.37435 AU	max. Earth dist.	16275 Mar 12 20:02	10° Ƴ 50'58	1.35296 AU
	16274 Mar 31 00:20	0°8		desc. node	16275 Mar 16 03:43	17° Ƴ 14'55	
evening rise	16274 Apr 03 03:21	5° 8 39'14		evening rise	16275 Mar 16 20:02	18° Ƴ 31'34	
	16274 Apr 18 00:59	Π $^{\circ}0$		_	16275 Mar 23 05:26	0°8	
evening max el	16274 May 08 14:01	26° Ⅲ 22'43	25°18'46		16275 Apr 12 04:48	Π°	
	16274 May 12 16:35	0°ಅ		evening max el	16275 Apr 21 03:34	10° Ⅱ 11'29	26°25'32
retrograde	16274 May 20 18:04	3° 5 26'25		retrograde	16275 May 04 03:14	17° Ⅲ 35'43	
asc. node	16274 May 23 16:04	2°951'23		evening set	16275 May 10 10:38	15° Ⅲ 03'05	
evening set	16274 May 26 15:33	0°958'10		asc. node	16275 May 10 13:12	14° Ⅱ 57'49	
	16274 May 27 16:39	30°R Ⅱ		min. Earth dist.	16275 May 14 12:04	10° Ⅲ 51′25	0.66837 AU
min. Earth dist.	16274 May 30 23:10	26° Ⅱ 11′08	0.68081 AU	inferior conj	16275 May 16 09:02	8° Ⅲ 34'37	1°41'21
inferior conj	16274 Jun 01 07:05	24° Ⅲ 27′28	2°19'47	minimum elong	16275 May 16 06:57	8° Ⅱ 40'59	1°40'03
minimum elong	16274 Jun 01 04:57	24° Ⅲ 34′25	2°18'34	morning rise	16275 May 22 04:15	2° Ⅱ 52'54	
morning rise	16274 Jun 06 18:45	18° Ⅲ 34′28		direct	16275 May 25 07:38	1° Ⅱ 57'28	
direct	16274 Jun 10 08:36	17° Ⅱ 21′03		morning max el	16275 May 31 18:51	5° Ⅲ 22'50	18°25'57
morning max el	16274 Jun 17 07:48	21° Ⅱ 08'47	19°11'26	desc. node	16275 Jun 12 04:19	20° Ⅲ 37′26	
	16274 Jun 24 14:29	0 \circ \odot			16275 Jun 18 04:26	0 \circ \odot	
desc. node	16274 Jun 25 07:15	0°\$58'22		morning set	16275 Jun 21 07:53	4° © 57'42	
greatest brilliancy	16274 Jun 30 03:14	7° 9 59'02	-0.7m				
morning set	16274 Jul 11 09:19	25°506'33		superior conj	16275 Jul 07 01:27	29°537'40	-2°12'13
-	16274 Jul 14 13:26	$0^{\circ}\Omega$		minimum elong	16275 Jul 06 21:57	29°524'00	
max. Earth dist.	16274 Jul 24 14:25	15° Ω 36′26	1.45553 AU	-	16275 Jul 07 07:11	$0^{\circ}\Omega$	
				max. Earth dist.	16275 Jul 07 10:00	0° Ω 10'57	1.46016 AU
superior conj	16274 Jul 27 15:42	20° Ω 24'30	-2°11'18	evening rise	16275 Jul 22 23:01	24° Ω 28'20	
minimum elong	16274 Jul 27 19:55	20° Ω 41′05			16275 Jul 26 11:29	0° m)	
	16274 Aug 02 16:28	0° m)		greatest brilliancy	16275 Jul 31 22:24	8° m) 30'37	-0.8m
		٦		5		4/	

asc. node	16275 Aug 06 12:53	16° My 55'26			16276 Jul 19 01:20	0° m)	
evening max el	16275 Aug 13 21:37	26° Mp 10'38	18°48'14	asc. node	16276 Jul 23 09:39	5° Mp 46'34	
retrograde	16275 Aug 20 13:19	29° m 47'45		evening max el	16276 Jul 27 04:59	10° Mp 04'23	19°36'27
evening set	16275 Aug 23 21:10	28° m 44'12		retrograde	16276 Aug 03 11:21	14° m 07'50	
inferior conj	16275 Aug 29 11:07	23° Mp 01'43	2°30'48	evening set	16276 Aug 07 05:17	12° Mp 46'36	
minimum elong	16275 Aug 29 13:15	22° m 55'02	2°30'09	inferior conj	16276 Aug 12 13:41	6° Mp 51'24	2°55'05
min. Earth dist.	16275 Aug 31 05:50	20° m 47'56	0.66264 AU	minimum elong	16276 Aug 12 15:08	6° Mp 46'35	2°54'33
morning rise	16275 Sep 04 04:21	16° mp 35'21		min. Earth dist.	16276 Aug 13 18:25	5° m) 15'53	0.67682 AU
desc. node	16275 Sep 08 02:06	14° m) 19'14		morning rise	16276 Aug 18 00:27	0° m/25'00	0.07002710
direct	16275 Sep 10 10:07	13° m ₂ 58'12		morning risc	16276 Aug 18 12:16	30°RΩ	
	•		26920120	Ji	•	27°Ω53'26	
morning max el	16275 Sep 23 10:33	21° m/40'59	26-30-20	direct	16276 Aug 23 20:15		
	16275 Sep 30 17:07	0∘ ⊽		desc. node	16276 Aug 24 23:28	27° Ω 58'32	
	16275 Oct 20 21:24	0°M₊			16276 Aug 29 20:47	0° m)	
morning set	16275 Oct 29 06:58	15°M01'25		morning max el	16276 Sep 04 21:39	5° m 06'11	25°12'53
max. Earth dist.	16275 Nov 02 04:36	22°M32'55	1.34418 AU		16276 Sep 24 03:05	0∘ ত	
asc. node	16275 Nov 02 14:05	23°M19'49		morning set	16276 Oct 10 17:58	27° ₽ 12'39	
	16275 Nov 05 21:25	0° ∡ ¹			16276 Oct 12 07:05	0° M .	
				max. Earth dist.	16276 Oct 14 06:37	3°M38'24	1.36552 AU
superior conj	16275 Nov 07 05:43	2° ∡ ¹46'37	0°41'23	asc. node	16276 Oct 19 10:52	13°M31'30	
minimum elong	16275 Nov 07 03:42	2°×736'07	0°41'37	use. Houe	10270 000 17 10.52	13 1103130	
evening rise	16275 Nov 14 15:19	18° × ⁷ 21'17	0 41 37	superior conj	16276 Oct 20 19:19	16°M11'20	0°12'11
evening rise							
	16275 Nov 20 09:11	0°る		minimum elong	16276 Oct 20 18:33	16°M07'32	0°12'29
evening max el	16275 Dec 04 01:41	20° පි 26'24	21°07'28	behind sun begin	16276 Oct 20 14:27	15° M 47'17	
desc. node	16275 Dec 04 23:51	21° る 19'02		behind sun end	16276 Oct 20 22:38	16° M 27′50	
retrograde	16275 Dec 15 19:19	26° る 14'50			16276 Oct 27 15:08	0° ∡ ¹	
evening set	16275 Dec 18 13:02	25° る 57'14		evening rise	16276 Oct 28 21:10	2° ҂ ³33'03	
inferior conj	16275 Dec 27 06:50	22° る 06'41	-5°44'52		16276 Nov 14 01:47	0°ರ	
minimum elong	16275 Dec 27 00:03	22° る 16'18	5°43'16	evening max el	16276 Nov 15 07:09	1° る 17'42	19°48'20
min. Earth dist.	16275 Dec 28 00:13	21° ♂ 42'04	0.54408 AU	desc. node	16276 Nov 20 20:56	5°₹20'25	
morning rise	16276 Jan 04 11:14	18° る 15'07		retrograde	16276 Nov 25 09:43	6° る 20'23	
direct	16276 Jan 08 13:36	17° る 38'50		evening set	16276 Nov 27 10:49	6° ප 08'58	
morning max el	16276 Jan 21 14:18	24° ろ 00'01	22°52'26	inferior conj	16276 Dec 06 04:11	2°る08'11	-4°33'30
morning max cr		0°≈	22 32 20		16276 Dec 05 18:12	2°る23'38	
,	16276 Jan 26 22:09			minimum elong			
asc. node	16276 Jan 29 13:07	3°≈36'36		min. Earth dist.	16276 Dec 08 07:12		0.55139 AU
_	16276 Feb 12 22:00	0° ∀			16276 Dec 09 16:31	30°R ∡ 7	
morning set	16276 Feb 13 03:04	0° ∺ 26'53		morning rise	16276 Dec 14 00:12	27° ₹ 755′12	
				direct	16276 Dec 19 03:27	26° ₹ 57'07	
superior conj	16276 Feb 20 01:51	15° ∺ 24'55	1°22'38		16276 Dec 28 04:37	0°₹	
minimum elong	16276 Feb 20 03:59	15° ¥ 36′18	1°22'39	morning max el	16277 Jan 01 22:34	3° ⋜ 50'07	24°42'27
max. Earth dist.	16276 Feb 23 12:06	22°) 39′07	1.33499 AU	asc. node	16277 Jan 15 10:22	21° る 35'04	
	16276 Feb 27 02:47	$0^{\circ}\mathbf{\Upsilon}$			16277 Jan 20 04:17	0° ≈	
evening rise	16276 Feb 28 02:19	1° Y 56'11		morning set	16277 Jan 27 15:03	15° ≈ 08'03	
desc. node	16276 Mar 02 00:23	7° Ƴ 32'53		3			
***************************************	16276 Mar 15 04:00	0°8		superior conj	16277 Feb 03 09:13	29° ≈ 57'35	1°33'22
evening max el	16276 Apr 02 17:12	23° 8 46'10	27°13'//1	minimum elong	16277 Feb 03 10:31	0°) €04'43	1°33'42
evening max er		0°Ⅱ	2/ 13-1	minimum ciong	16277 Feb 03 09:40	0° ∺	1 33 42
	16276 Apr 11 01:38			Footb diet			1 22150 AII
retrograde	16276 Apr 16 06:26	1° I 18'32		max. Earth dist.	16277 Feb 05 11:56	4°) 34'31	1.32150 AU
	16276 Apr 21 01:48	30° ₹ 8		evening rise	16277 Feb 10 19:01	15°) 45′04	
evening set	16276 Apr 22 21:25	28° 8 48'01		desc. node	16277 Feb 16 21:04	27°) € 37'15	
asc. node	16276 Apr 26 10:25	25° 8 30'06			16277 Feb 18 04:09	0° Υ	
min. Earth dist.	16276 Apr 26 18:17	25° 8 08'57	0.65178 AU		16277 Mar 09 21:30	$0^{\circ}S$	
inferior conj	16276 Apr 29 03:49	22° 8 28'32	0°50'02	evening max el	16277 Mar 16 05:23	6° 8 54'55	27°35'50
minimum elong	16276 Apr 29 02:31	22° 8 32'11	0°49'02	retrograde	16277 Mar 30 02:18	14° 8 25'34	
morning rise	16276 May 05 09:25	16° 8 59'52		evening set	16277 Apr 05 21:28	12° 8 04'11	
direct	16276 May 08 03:20	16° 8 19'48		min. Earth dist.	16277 Apr 09 15:55	8° 8 53'27	0.63185 AU
morning max el	16276 May 14 10:31		17°57'26	inferior conj	16277 Apr 12 12:31	6° 8 01'51	
morning man er	16276 May 22 09:54	0°II	1, 0, 20	minimum elong	16277 Apr 12 13:01	6° 8 00'37	
desc. node	16276 May 29 01:18	10° Ⅱ 37'35		transit middle	16277 Apr 12 13:01	6° 8 00'37	
	16276 Jun 01 09:20	10 Д3/33 16°Д06'13			-	6° 8 02'48	0 1322
morning set				transit begin	16277 Apr 12 12:08		
	16276 Jun 09 22:03	0ං ව		transit end	16277 Apr 12 13:53	5° 8 58'25	
				asc. node	16277 Apr 13 07:42	5° 8 14'03	
superior conj	16276 Jun 15 15:17	9° © 07'27		morning rise	16277 Apr 19 07:13	0° 8 48'42	
minimum elong	16276 Jun 15 06:56	8° 5 34'24		direct	16277 Apr 21 16:52	0° 8 20'53	
max. Earth dist.	16276 Jun 19 06:13	14° 5 49'29	1.45724 AU	morning max el	16277 Apr 28 04:08	3° 8 38'10	17°46'19
	16276 Jun 29 01:01	$0^{\circ}\Omega$		morning set	16277 May 14 12:27	28° 8 27'13	
evening rise	16276 Jul 01 16:45	4° Ω 04'41			16277 May 15 10:00	Π °0	
greatest brilliancy	16276 Jul 15 10:54	24° Ω 50′25	-0.6m	desc. node	16277 May 15 22:12	0° Ⅱ 52'31	
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superior conj	16277 May 26 23:10	19° Ⅱ 28'29		max. Earth dist.	16278 May 15 15:41	13° Ⅱ 18'06	1.43098 AU
minimum elong	16277 May 26 15:43	18° Ⅱ 57'53		evening rise	16278 May 21 22:56	23° Ⅱ 24'20	
max. Earth dist.	16277 Jun 02 00:51	29° Ⅱ 16'58	1.44718 AU		16278 May 26 04:54	0°99	
	16277 Jun 02 11:40	0			16278 Jun 16 05:39	0 ° Ω	
evening rise	16277 Jun 11 03:12	13° © 29'22		evening max el	16278 Jun 23 01:52	7° Ω 53'14	21°53'16
	16277 Jun 22 02:45	0 ° Ω		asc. node	16278 Jun 27 03:24	11° Ω 21'29	
asc. node	16277 Jul 10 06:29	23° Ω 59′25		retrograde	16278 Jul 02 08:44	13° Ω 18′07	
evening max el	16277 Jul 10 06:20	23° Ω 59'02	20°39'13	evening set	16278 Jul 07 00:40	11° Ω 21'45	
retrograde	16277 Jul 18 10:24	28° Ω 39'45		inferior conj	16278 Jul 12 06:23	5° Ω 04'49	3°07'12
evening set	16277 Jul 22 15:05	27° Ω 00′28		minimum elong	16278 Jul 12 05:58	5° Ω 06'17	3°06'35
inferior conj	16277 Jul 27 20:50	20° Ω 53'42	3°06'45	min. Earth dist.	16278 Jul 12 08:04	4° Ω 58'54	0.69113 AU
minimum elong	16277 Jul 27 21:22	20° Ω 51'51	3°06'14		16278 Jul 16 05:28	30° ₹ॐ	
min. Earth dist.	16277 Jul 28 11:50	20° Ω 01'59	0.68639 AU	morning rise	16278 Jul 17 11:05	28° © 48'35	
morning rise	16277 Aug 02 03:23	14° Ω 31'11		direct	16278 Jul 22 07:00	26° © 45'38	
direct	16277 Aug 07 11:32	12° Ω 11'43			16278 Jul 29 06:44	0 $^{\circ}$ Ω	
desc. node	16277 Aug 11 20:49	13° Ω 28'04		desc. node	16278 Jul 29 18:06	0° Ω 24'01	
morning max el	16277 Aug 18 08:39	18° Ω 41′05	23°45'24	morning max el	16278 Jul 31 21:34	2° Ω 24'29	22°16'51
	16277 Aug 27 21:43	0° ™			16278 Aug 21 20:19	0° ™	
	16277 Sep 17 05:21	0∘ ⊽		morning set	16278 Sep 03 01:13	18° m 53'21	
morning set	16277 Sep 22 09:10	8° ≏ 32'20		max. Earth dist.	16278 Sep 08 07:09	27° m 30'19	1.41312 AU
max. Earth dist.	16277 Sep 26 05:29	15° ≏ 10'14	1.38942 AU		16278 Sep 09 18:43	0∘ 亚	
	-				-		
superior conj	16277 Oct 03 19:55	28° ≏ 59'31	-0°21'58	superior conj	16278 Sep 16 03:14	11° ≏ 01'28	-0°58'50
minimum elong	16277 Oct 03 21:29	29° ≙ 06'54	0°21'25	minimum elong	16278 Sep 16 07:59	11° ≏ 22'37	0°58'02
	16277 Oct 04 08:45	0° M		asc. node	16278 Sep 23 04:19	23° ჲ 50'56	
asc. node	16277 Oct 06 07:37	3°M43'00		evening rise	16278 Sep 26 11:01	29° ჲ 57'38	
evening rise	16277 Oct 12 20:50	16° ™ 27'56			16278 Sep 26 11:32	0° M	
_	16277 Oct 20 00:45	0° ∡ ″		evening max el	16278 Oct 12 08:42	25°M25'06	18°16'33
evening max el	16277 Oct 29 02:36	12° ₹ 58'58	18°51'29	retrograde	16278 Oct 19 18:48	29°M12'19	
retrograde	16277 Nov 06 16:32	17° ∡ 18'54		evening set	16278 Oct 21 20:22	28°M55'21	
desc. node	16277 Nov 07 18:05	17° ∡ 15′06		desc. node	16278 Oct 25 15:18	27°M06'15	
evening set	16277 Nov 08 14:05	17° ∡ ¹06'59		inferior conj	16278 Oct 29 08:51	24° M 14'01	-1°12'05
inferior conj	16277 Nov 16 19:34	12° ∡ ¹46'58	-2°53'11	minimum elong	16278 Oct 29 06:09	24° M 19'39	1°10'27
minimum elong	16277 Nov 16 12:31	12° ∡ 59'36	2°49'52	min. Earth dist.	16278 Nov 01 14:55	21°M31'39	0.58714 AU
min. Earth dist.	16277 Nov 19 19:04	10° х 39'36	0.56663 AU	morning rise	16278 Nov 05 12:28	18° M 49'38	
morning rise	16277 Nov 24 08:02	7° ₹ 759'09		direct	16278 Nov 11 22:46	16°M59'18	
direct	16277 Nov 30 06:05	6° х 35'31		morning max el	16278 Nov 26 05:42	24°M38'22	27°28'21
morning max el	16277 Dec 14 10:05	13° ₹ 53'42	26°20'15	. 8	16278 Dec 01 04:03	0° ⊼	
	16277 Dec 27 03:59	0°る		asc. node	16278 Dec 20 04:39	29° х 30'46	
asc. node	16278 Jan 02 07:33	10° る 16'58			16278 Dec 20 10:49	0°ප	
morning set	16278 Jan 12 01:54	29° る 42'04		morning set	16278 Dec 27 09:46	14° る 03'38	
3	16278 Jan 12 05:14	0° ≈		. 8			
				superior conj	16279 Jan 03 07:04	29° る 13'40	1°36'32
superior conj	16278 Jan 18 19:38	14° ≈ 35'51	1°37'59	minimum elong	16279 Jan 03 06:18	29° ろ 09'20	1°37'08
minimum elong	16278 Jan 18 19:54	14° ≈ 37'22	1°38'31	max. Earth dist.	16279 Jan 03 01:05	28° る 40'07	1.30977 AU
max. Earth dist.	16278 Jan 19 17:25	16° ≈ 37'15	1.31296 AU		16279 Jan 03 15:20	0° ≈	
evening rise	16278 Jan 25 19:25	29° ≈ 51'33		evening rise	16279 Jan 10 01:09	14° ≈ 09'31	
Ü	16278 Jan 25 21:01	0°) €		Č	16279 Jan 17 21:40	0° ∀	
desc. node	16278 Feb 03 17:47	17°) €22'15		desc. node	16279 Jan 21 14:32	6° ¥ 39'35	
	16278 Feb 11 06:27	$0^{\circ}\Upsilon$			16279 Feb 07 12:55	0° Υ	
evening max el	16278 Feb 26 13:35	19° Ƴ 24'41	27°25'58	evening max el	16279 Feb 08 15:03	1° Y ′03'52	26°40'58
retrograde	16278 Mar 12 13:49	26° Y 47'50		retrograde	16279 Feb 22 15:34	8° Υ 16'20	
evening set	16278 Mar 19 08:04	24° Υ 42'41		evening set	16279 Mar 01 01:52	6° Y ′34′00	
min. Earth dist.	16278 Mar 23 03:30	21° Y 53'31	0.60972 AU	min. Earth dist.	16279 Mar 05 04:45	3° Υ 55'46	0.58719 AU
inferior conj	16278 Mar 26 07:42	19° Υ 05'49		inferior conj	16279 Mar 08 09:27	1° Υ 29'10	
minimum elong	16278 Mar 26 11:08	18° Υ 58'13		minimum elong	16279 Mar 08 16:30	1° Υ 15'37	
asc. node	16278 Mar 31 05:02	15° Υ 18'57	1 33 01	mannam viong	16279 Mar 10 09:11	30° Ŗ ₩	3 01 03
morning rise	16278 Apr 02 17:33	14° Υ 11'16		morning rise	16279 Mar 16 10:42	26° ¥ 55'41	
direct	16278 Apr 04 20:33	13° Υ 52'17		direct	16279 Mar 18 09:45	26°\(\frac{1}{42}\)'03	
morning max el	16278 Apr 11 20:34	17° Υ 22'49	17°53'18	asc. node	16279 Mar 18 02:22	26°) (42'24	
	16278 Apr 20 20:48	0°8	1, 2510		16279 Mar 25 16:09	20 γ (42 24	
morning set	16278 Apr 27 11:44	11° 8 44'22		morning max el	16279 Mar 26 08:05	0° Υ 37'30	18°19'39
desc. node	16278 May 02 19:02	21° 8 17'36		morning set	16279 Apr 11 01:28	25° Υ 39'47	10 1/37
dese. Houe	16278 May 07 17:56	0° Π		morning set	16279 Apr 13 08:18	0° 8	
	102/0 Way 0/ 1/.30	ν д		desc. node	16279 Apr 19 15:48	11° 8 47'58	
superior conj	16278 May 08 06:35	0°∏54'36	-0°43'56	acce. node	-02,71pi 17 13.40	11 0 1/ 50	
minimum elong	16278 May 08 02:41	0° Д 37'47		superior conj	16279 Apr 20 11:48	13° 8 19'14	-0°06'58
ciong	00 02.11	1			20 11.10	0.717	

minimum elong	16279 Apr 20 11:14	13° 8 16'42	0°07'18	morning set	16280 Mar 25 01:09	10° Y '00'28	
behind sun begin	16279 Apr 20 04:38	12° 8 46'39			1.000 1 00 10 11	2 < 200 2 2 4 4	0005150
behind sun end	16279 Apr 20 17:50	13° 8 46'41	1 41000 177	superior conj	16280 Apr 02 10:41	26° Y 30'41	0°25'52
max. Earth dist.	16279 Apr 28 01:21	26° 8 38'37	1.41033 AU	minimum elong	16280 Apr 02 12:15	26° Y 38'10	0°25'21
	16279 Apr 30 01:04	0°II			16280 Apr 04 06:40	0°8	
evening rise	16279 May 02 13:47	4° Ⅱ 11'19		desc. node	16280 Apr 05 12:31	2° 8 20'01	
	16279 May 19 10:26	0ං ව		max. Earth dist.	16280 Apr 09 07:29	9° 8 15'59	1.38755 AU
evening max el	16279 Jun 05 17:14	21°9547'14	23°13'57	evening rise	16280 Apr 13 01:58	15° 8 53'35	
asc. node	16279 Jun 14 00:22	27° © 36'08			16280 Apr 21 15:20	Π °0	
retrograde	16279 Jun 16 04:53	27° © 56'39			16280 May 13 01:27	0 \circ	
evening set	16279 Jun 21 08:21	25° © 45'19		evening max el	16280 May 18 06:52	5° © 42'25	24°34'56
min. Earth dist.	16279 Jun 26 04:59	19° © 59'34	0.69092 AU	retrograde	16280 May 29 21:31	12° © 29'22	
inferior conj	16279 Jun 26 16:19	19° © 20'23	2°57'09	asc. node	16280 May 30 21:23	12° © 25'12	
minimum elong	16279 Jun 26 15:02	19° © 24'48	2°56'19	evening set	16280 Jun 04 12:29	10°906'20	
morning rise	16279 Jul 01 21:39	13° © 12'00		min. Earth dist.	16280 Jun 09 00:28	4° © 57'50	0.68586 AU
direct	16279 Jul 06 05:26	11° © 27'55		inferior conj	16280 Jun 10 00:45	3° © 36'32	2°36'36
morning max el	16279 Jul 14 15:04	16°916'58	20°54'50	minimum elong	16280 Jun 09 22:50		2°35'31
desc. node	16279 Jul 16 15:20	18° 5 24'28			16280 Jun 12 21:10	30° Ŗ Ⅱ	
	16279 Jul 25 17:01	$0 {\circ} \Omega$		morning rise	16280 Jun 15 09:20	27° Ⅲ 37'21	
morning set	16279 Aug 13 18:35	28° Ω 17'47		direct	16280 Jun 19 05:31	26° Ⅱ 12'48	
	16279 Aug 14 20:49	0° m)			16280 Jun 26 07:07	0 \circ	
max. Earth dist.	16279 Aug 21 14:34	10° m 42'16	1.43386 AU	morning max el	16280 Jun 26 15:13	0° © 19'37	19°44'48
				desc. node	16280 Jul 02 12:31	7° 5 012'44	
superior conj	16279 Aug 28 13:03	22°Mp08'11	-1°34'20		16280 Jul 18 05:50	$0^{\circ}\Omega$	
minimum elong	16279 Aug 28 20:34	22° m 39'51	1°33'36	morning set	16280 Jul 22 23:03	7° Ω 11'46	
	16279 Sep 02 03:45	0∘ ত		max. Earth dist.	16280 Aug 03 04:15	24° Ω 38′23	1.44950 AU
evening rise	16279 Sep 09 11:20	12° ≙ 50'48			16280 Aug 06 13:14	0° ™	
asc. node	16279 Sep 10 01:01	13° ≙ 51'32					
	16279 Sep 19 11:15	0°M₊		superior conj	16280 Aug 07 23:19	2° Mp 16'34	
evening max el	16279 Sep 25 21:13	8°M26'28	18°01'55	minimum elong	16280 Aug 08 06:22	2° Mp 44'50	2°01'53
retrograde	16279 Oct 02 13:46	11°M53'39		evening rise	16280 Aug 21 16:29	24° m 53'36	
evening set	16279 Oct 04 22:37	11°ML27'34			16280 Aug 24 17:12	0∘ ⊽	
inferior conj	16279 Oct 11 18:14	6°M26′18	0°14'21	asc. node	16280 Aug 26 21:41	3° ≏ 40'02	
minimum elong	16279 Oct 11 18:41	6°M25'12	0°14'32	evening max el	16280 Sep 08 12:07	21° ≏ 52'17	18°06'02
transit middle	16279 Oct 11 18:41	6°M25'12	0°14'32	retrograde	16280 Sep 14 21:05	25° ≏ 12'45	
transit begin	16279 Oct 11 17:15	6°M28'39		evening set	16280 Sep 17 14:27	24° ≏ 34'01	
transit end	16279 Oct 11 20:07	6° M ₊21'44		inferior conj	16280 Sep 23 19:50	19° ≙ 14'59	1°21'36
desc. node	16279 Oct 12 12:34	5°M41'50		minimum elong	16280 Sep 23 21:50	19° ≏ 09'33	1°21'05
min. Earth dist.	16279 Oct 14 20:21		0.60996 AU	min. Earth dist.	16280 Sep 26 11:40		0.63245 AU
morning rise	16279 Oct 18 11:45	0°M32'42		desc. node	16280 Sep 28 09:53	14° ≙ 28'05	
	16279 Oct 19 08:46	30° ₹ Ω		morning rise	16280 Sep 30 03:04	13° ≏ 02'02	
direct	16279 Oct 25 03:52	28° £ 19'05		direct	16280 Oct 06 18:52	10° £ 32'31	250 40150
	16279 Oct 31 07:39	0°M,		morning max el	16280 Oct 20 17:21	18° ≏ 30'55	27°48'58
morning max el	16279 Nov 08 08:58	6°M12'32	27°57'59		16280 Oct 30 10:30	0° M ₊	
	16279 Nov 26 08:07	0° ∡ ¹			16280 Nov 18 05:38	0° ∡ ¹	
asc. node	16279 Dec 07 01:40	19° ∡ 07'51		asc. node	16280 Nov 22 22:36	9° ∡ ¹00'49	
morning set	16279 Dec 11 12:41	28° ∡ ′08'13		morning set	16280 Nov 24 08:21	11° х 49'37	1 22022 444
max. Earth dist.	16279 Dec 12 09:59	0°る	1.31215 AU	max. Earth dist.	16280 Nov 29 07:58	22° ∡ 12'38	1.32023 AU
max. Earm dist.	16279 Dec 17 07:11	10 03443	1.51213 AU	aumoriar aoni	16290 Dec 02 01:22	200.707!20	1°15'25
superior conj	16279 Dec 18 17:42	13° る 46'17	1°20'02	superior conj minimum elong	16280 Dec 02 01:32 16280 Dec 01 23:17	28° ₹ 07'30 27° ₹ 55'09	1°15'49
minimum elong	16279 Dec 18 16:02	13° る 36'57		minimum ciong	16280 Dec 02 22:06	2/ス3309 0°る	1 1349
evening rise	16279 Dec 25 10:18	13 3 3037 28° る 34'43	1 29 33	evening rise	16280 Dec 02 22:00 16280 Dec 08 20:57	0 3 13° る 02'02	
evening rise		28 3 3443 0° ≈		evening rise		0°≈	
daga mada	16279 Dec 26 02:07	0 ≈ 25°≈19'20		daga mada	16280 Dec 17 06:39	0 ≈ 13°≈07'19	
desc. node	16280 Jan 08 11:21	0° ₩		desc. node	16280 Dec 25 08:13		22044122
avanina may al	16280 Jan 11 12:59	11° X 50'35	25022121	evening max el	16281 Jan 01 18:47	21°≈56'52	25 44 55
evening max el	16280 Jan 21 08:14		23 23 31	retrograde	16281 Jan 15 05:27	28°≈36'22	
retrograde	16280 Feb 04 05:26	18°) 49'11		evening set	16281 Jan 19 21:58	27°≈48'50	0.55162 411
evening set	16280 Feb 09 23:15	17° ¥ 34'18	0.56694.411	min. Earth dist.	16281 Jan 26 06:10	24°≈45'44	0.55163 AU
min. Earth dist.	16280 Feb 14 20:57	14° ¥ 52'21	0.56684 AU	inferior conj	16281 Jan 27 23:02	23°≈45'33	
inferior conj	16280 Feb 17 14:38	13° ¥ 03′22		minimum elong	16281 Jan 28 05:52		5°39'45
minimum elong	16280 Feb 18 00:03	12°) 47'42	4 30 03	morning rise	16281 Feb 05 15:18	19°≈50'42	
morning rise	16280 Feb 26 03:41	8°¥51'05		direct	16281 Feb 08 04:05	19°≈34'45	
direct	16280 Feb 28 04:32	8° ¥ 38'53		asc. node	16281 Feb 18 20:58	24°≈42'54	20010105
asc. node morning max el	16280 Mar 03 23:40 16280 Mar 08 10:29	9° ∺ 51'11 13° ∺ 10'11	19°07'18	morning max el	16281 Feb 18 23:35 16281 Feb 23 10:49	24° ≈ 49'12 0° ∀	20°18'05
morning max er	16280 Mar 19 20:39	0°Υ	19 0/10	morning set	16281 Feb 23 10:49 16281 Mar 09 07:22	24° ∺ 36'14	
	10200 iviai 17 40.39	V 1		morning set	10201 Will U) U1.22	2 · /\JU14	

Septem compose 1,53 Mm 16 2.57 1971 1972		16281 Mar 11 22:17	0° Ƴ		asc. node	16282 Feb 05 18:17	11°≈01'48 0°¥	
minimal does 658 May 12 0124 10*P2V25 10*P2V25 0*P22V35 1500 May 12 0124 20*P2X82 17*P3 20*P2X82	superior coni	16281 Mar 16 22:57	10017102	0°52'54	morning set	16282 Feb 17 04:10		
one. Index Control of CSI May 21 (a) 2279 (a) 1,000 (b) 2279 (a) 2279 (a) </td <td></td> <td></td> <td></td> <td></td> <td>morning set</td> <td>10202 1 60 21 17.20</td> <td>9 /(1910</td> <td></td>					morning set	10202 1 60 21 17.20	9 /(1910	
March Marc	· ·				superior coni	16282 Feb. 28, 20:54	24°¥28'02	1°13'37
Column C				1.50500 /10				
1,000 1,00					minimum crong			1 13 20
Contact 1,224 1,225 1,	e vennig 1150				max. Earth dist.			1.34486 AU
Second 1628 May 1 1828 297 397 398			_					
Mathematics 1628 May 1 963 2 9714952 1 922 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	evening max el	*		25°49'03	-	16282 Mar 10 05:53		
Second 1021M May 17 18/28 25*II33*II 19*II4792	•	-	26° Ⅱ 49'52			16282 Mar 19 17:25	0° ႘	
amilar laid alia 1081 May 2 1 6.21 19°H 4728 0.670 AU retugnde (return) 1082 May 2 0.534 17°H 2001 2000 evening set (528 May 9 0 1513) 18°H 200 115 (49)	asc. node	16281 May 17 18:28	25° Ⅱ 33'14			16282 Apr 10 04:56	$\Pi^{\circ}0$	
Indication conj Indicati	evening set	16281 May 19 11:26	24° Ⅱ 19'22		evening max el	16282 Apr 13 10:18	3° Ⅱ 21′04	26°48'44
minimal mellong Logal May 2 0.0313 1°TT Scot 2°0 Sea ass. node LGS2 May 0.04 15.129 6°TT Scot 3°TT Scot 1°TT Scot	min. Earth dist.	16281 May 23 16:21	19° Ⅱ 47'28	0.67607 AU	retrograde	16282 Apr 26 16:08	10° Ⅱ 49'23	
Mathematics 1628 May 30 2015 2°H00728 10°H0744 10°H0767 16282 May 90 04:59 17°H1741 10°H174	inferior conj	16281 May 25 05:44	17° Ⅱ 49'03	2°05'00	evening set	16282 May 03 03:15	8° Ⅱ 16'49	
eined 16281 Jun 03 05.37 0°T15446 cell reference of the control of	minimum elong	16281 May 25 03:33	17° Ⅱ 56′01	2°03'43	asc. node	•	6° Ⅱ 56'33	
Manual M	morning rise	16281 May 30 20:15	12° Ⅱ 00′28		min. Earth dist.	16282 May 07 02:33		0.66183 AU
Column C	direct	16281 Jun 03 05:37			inferior conj	16282 May 09 04:59		
greatest milling regreatest mil	-	16281 Jun 09 22:37		18°50'01	minimum elong	•		1°20'01
greate brillianey 1628 Jun 2 2 15.5 g 2951 4 0.8 m morning set 1628 Jun 1 0 24 0 6*292* 7 0 6*292* 7 0 6*292* 7 0 7	desc. node							
moming set 1628 Jul 10 20.00 16°\$29'12 moming max el 1628 May 25 1642 0°TL					=	•		
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Mark Earth dist 1628 Jul 16 23:01 9 1/10 0 1/10 1/10 1/10 1/10 1/10 1/10	morning set				morning max el	,	. •	18°11'46
Superior con	The state of			1 45045 477		•		
Superior conj 16.28 Jul 18 14.32 11 12.404 15 21 14.45 16.28 Jul 10 14.18 15.37 17.434 17.324 16.28 Jul 10 10.434 10 10 10.28 Jul 10 10.434 10.104 10.28 1	max. Earth dist.	16281 Jul 16 23:01	9° 81 06'15	1.45845 AU				
minimum elong 1628 Jul 18 15.37 11 24455 201445 20145 20165 201		1/201 1 1 10 14 22	110 0 40142	201.4112	morning set			
Cevening rise 1628 Jul 30 04.54 0°Pm minimum clong 1628 Jul 27 23.52 20°95320 20°0632 asc. node 1628 Aug 31 18.23 23°mj 11'52 max. Earth dist 1628 Jul 23 19.40 23°92647 1.4598 AU cevening max el 1628 Aug 23 10.12 0°Pm 1.250 1.628 Jul 1.02 1.03 1.03 1.00 0°L cevening set 1628 Aug 20 12.43 0°Pm 1.20 2°Pm						16282 Jun 14 18:22	0.00	
Case 1628 Laug 13 123 23 13 13 23 23 13 1	minimum elong			2°14'45	aumariar aani	16202 Ium 27 22:52	200625120	2906121
Assert	ovening rise							
Cevening max of 1628 Aug 18 10,12 0° A 18-27 16-28 18-27 16-28 18-27 18-27 16-28 18-27 1	•	-			C			
evening max el	asc. Houc	_			max. Earth dist.			1.43366 AU
retrograde 1628 Aug 29 1243 9°£013 2°£013 3°£07 1512 2°£0274 2°£037	evening max el	_		18°27'54	evening rise			
Pevening set 16281 Sep 01 15:12 8° \(\alpha\) 07:25 2° \(\alpha\) 2° 10'15 asc. node 16282 Jul 25 \(\alpha\) 6:33 15:08 12° \(\alpha\) 2° 10'16 asc. node 16282 Jul 25 \(\alpha\) 6:33 15:08 12° \(\alpha\) 2° 10'16 asc. node 16282 Jul 25 \(\alpha\) 6:33 15:08 12° \(\alpha\) 2° 10'16 asc. node 16282 Jul 25 \(\alpha\) 6:32 2° 10'20'5 10'00'64 asc. node 16282 Jul 25 \(\alpha\) 6:12 2° \(\alpha\) 2° 10'16 asc. node 16282 Jul 25 \(\alpha\) 6:12 2° \(\alpha\) 10'16 3° 10	•	•		10 27 0 .	evening rise			
minimum elong 16281 Sep 07 09-47 2° Ω 32'49 2° 10'15 asc. node 16282 Jul 31 15:08 12° № 20'06 16281 Sep 07 12:05 2° Ω 25'53 2° 09'35 evening max el 16282 Aug 08 12:22 19° № 270'05 19° 06'46 16281 Sep 09 12:24 0° Ω 01'125 06.5264 AU retrograde 16282 Aug 18 09:19 23° № 11'19 18' 18' 18' 18' 18' 18' 18' 18' 18' 18'	•	-			greatest brilliancy		-	-0.7m
minimum elong 16281 Sep 07 12:05 2°\$\Omega\$25'53 2°09'35 evening max el 16282 Aug 06 12:22 19°\$\Omega\$25'05 19°06'46' min. Earth dist. 16281 Sep 09 12:24 0°\$\Omega\$07' 0°\$\Omega\$07'	•	•		2°10'15				
morning rise 16281 Sep 09 12:53 30°R m evening set 16282 Aug 16 21:24 22°m 00752 24:244 desc. node 16281 Sep 15 07:14 24°m 464 minimum elong 16282 Aug 22 08:36 16°m 12'31 2*42'44 desc. node 16281 Sep 15 07:14 24°m 464 minimum elong 16282 Aug 22 10:29 16°m 06'26 2*42'09 2*42'09 16°m 06'26 16°m 06'26 2*42'09 16°m 06'26 16°m 06'26 2*42'09 16°m 06'26	·	-	2° ≏ 25'53	2°09'35	evening max el			19°06'46
morning rise 16281 Sep 13 07:40 26° m09'21 inferior conj 16282 Aug 22 08:36 16° m12'31 2°42'44 direct 16281 Sep 19 18:07 23° m32'47 minimum elong 16282 Aug 22 10:29 16° m06'02 24'20'9 direct 16281 Sep 19 18:07 23° m32'47 morning rise 16282 Aug 23 21:14 14° m16'02 0.66922 AU 16281 Oct 01 17:37 0° 4 morning rise 16282 Aug 23 21:14 14° m16'25 0.66922 AU 16281 Oct 01 17:37 0° 4 morning rise 16282 Sep 02 0:436 7° m12'55 0°	min. Earth dist.	16281 Sep 09 12:24	0° ჲ 01'25	0.65264 AU	retrograde	16282 Aug 13 09:19	23° m 11'59	
desc. node 16281 Sep 15 07:14 24° m/46′44 minimum elong 16282 Aug 22 10:29 16° m/66′26 2°42′09 direct 16281 Oct 01 17:37 7°£ morning max el 16281 Nov 07 18:02 25° ml.01′51 morning max el 16282 Sep 03 00:29 7° ml.01′14 7°£ 13′32 3° ml. morning max el 16282 Sep 03 00:29 7° ml.01′14 14° ml.15° 25° 59′15 asc. node 16281 Nov 07 18:02 25° ml.01′51 morning max el 16282 Sep 03 00:29 7° ml.01′14 0°£ morning max el 16282 Sep 15 16:00 14° ml.15° 25° 59′15 asc. node 16281 Nov 10 06:38 0° x² 16281 Nov 10 06:38 0° x² 16282 Sep 28 05:13 0° 2 ml.15° 0° x² 16281 Nov 10 06:38 0° x² 16281 Nov 10 06:38 0° x² 16281 Nov 10 06:38 0° x² 18° 53′64 18° 53′		16281 Sep 09 12:53	30°R, Mp		evening set	16282 Aug 16 21:24	22°m,00'52	
Min. Earth dist. 16281 Sep 19 18.07 23° m 32'47 min. Earth dist. 16282 Aug 27 21:44 14° m 14'26 0.66922 AU 16281 Oct 01 17:37 0° m 0° m 0° m 0.66922 AU 0.66922	morning rise	16281 Sep 13 07:40	26° Mp 09'21		inferior conj	16282 Aug 22 08:36	16°M 12'31	2°42'44
morning max el 16281 Oct 01 17:37 0° ⊕ morning rise 16282 Aug 27 22:49 9° m/s453 7° m/s 1255 16281 Oct 03 04:24 1° ⊕ 24'37 27°06'38 desc. node 16282 Sep 02 04:36 7° m/s 1255 16281 Oct 04 13:32 0° m direct 16282 Sep 03 00:29 7° m/s 10'14 16281 Nov 10 16:28 Nov 07 18:20 25° m/s 10'15 morning max el 16282 Sep 15 16:00 14° m/s 11'50 25° 59'15 asc. node 16281 Nov 10 06:38 0° ₹ 16282 Nov 10 06:38 0° ₹ 16282 Oct 17 08:34 0° m 16282 Nov 10 06:38 0° ₹ 16282 Nov 10 06:38 0° ₹ 16282 Oct 17 08:34 0° m 16282 Nov 10 06:38 0° ₹ 16282 Nov 10 06:38	desc. node	16281 Sep 15 07:14	24° Mp 46° 44		minimum elong	16282 Aug 22 10:29	16°M)06'26	2°42'09
morning max el 16281 Oct 03 04:24 1° ±24'37 27°06'38 desc. node 16282 Sep 02 04:36 7° m 12'55 7° m 10'14 morning set 16281 Nov 07 18:02 25° m 01'51 morning max el 16282 Sep 15 16:00 14° m 41'50 25° 59'15 asc. node 16281 Nov 10 06:38 0° ₹ 16282 Nov 10 06:38 10° ₹ 16282 Nov 10 06:38 0° ₹ 16282	direct	16281 Sep 19 18:07	23° m 32'47		min. Earth dist.	-	14° m 14'26	0.66922 AU
Morning set 16281 Nov 07 18:02 25° IL 01'51 morning max el 16282 Sep 03 00:29 7° ID 1'4 16282 Sep 15 16:00 14° ID 41'50 25° 59'15 16:28 Nov 09 19:29 29° IL 04'28 16282 Sep 28 05:13 0° □ 16282 Nov 10 06:38 0° № 16281 Nov 10 06:38 0° № 16282 Nov 10 06:38 0° № 16282 Nov 12 00:21 3° № 30'43 1.33396 AU morning set 16282 Oct 27 08:34 0° IL 14° IL 35'46 1.35280 AU superior conj 16281 Nov 16 04:25 12° № 11'49 0°55'36 asc. node 16282 Oct 27 16:20 19° IL 14'20 14° IL 35'46 1.35280 AU 16281 Nov 16 02:05 11° № 59'30 0°55'52 evening rise 16281 Nov 23 07:20 27° № 27'12 superior conj 16282 Nov 10 23:54 0° № 162		16281 Oct 01 17:37			-		9° m 45'33	
morning set 16281 Nov 07 18:02 25° Mol1'51 morning max el 16282 Sep 15 16:00 14° Mol1'50 25° 59' 15 asc. node 16281 Nov 10 06:38 0° Mol4'28 16282 Oct 17 08:34 0° Mol4'28 16282 Oct 18 0° Mol4'29 10°	morning max el			27°06'38		•	-	
asc. node						•	-	
16281 Nov 10 06:38 0°\$\frac{1}{1} 16282 Nov 12 00:21 14:27 7° \tau 3750 13:280 AU morning set 16282 Oct 17 08:34 0°\tau 1.3546 13:280 AU morning set 16282 Oct 21 14:27 7° \tau 3750 13:280 AU 14:\tau 1.3546 13:280 AU 16:\tau 1.3546 16:\tau 1.	•				morning max el	•	-	25°59'15
max. Earth dist.	asc. node					-		
max. Earth dist. 16282 Oct 25 07:11 14°IL35'46 1.35280 AU superior conj 16281 Nov 16 04:25 12° ₹11'49 0°55'36 asc. node 16282 Oct 27 16:20 19°IL14'20 19°IL14'30 1	Fauth diet			1 2220C ATT				
superior conj 16281 Nov 16 04:25 12°₹11'49 0°55'36 asc. node 16282 Oct 27 16:20 19°№14'20 Iminitation evening rise 16281 Nov 16 02:05 11°₹59'30 0°55'52 superior conj 16282 Oct 30 23:43 25°№52'47 0°29'41 evening rise 16281 Nov 24 12:14 0°5 minimum elong 16282 Oct 30 23:43 25°№4'33 0°29'55 desc. node 16281 Dec 12 05:10 29°545'32 evening rise 16282 Nov 01 23:54 0°₹ 10°₹ evening max el 16281 Dec 12 10:22 0°∞ evening rise 16282 Nov 07 15:29 11°₹45'28 11°₹45'28 evening max el 16281 Dec 26 17:55 8°≈04'13 evening max el 16282 Nov 07 15:29 12°₹17'17 20°31'10 evening set 16281 Dec 30 03:51 7°≈38'18 desc. node 16282 Nov 29 02:13 14°₹51'19 20°31'10 inferior conj 16282 Jan 07 16:35 3°≈47'33 -6°01'24 retrograde 16282 Dec 07 04:24 17°547'21 17°533'24 mini. Earth dist. 16282 Jan 16 02:33 0°≈00'12 minimum elong 16282 Dec	max. Earth dist.	16281 NOV 12 00:21	3° X '30'43	1.33396 AU	C			1 25200 ATT
minimum elong evening rise 16281 Nov 16 02:05 11° ₹59'30 0°55'52 superior conj 16282 Oct 30 23:43 25° 11.52'47 0°29'41 16281 Nov 24 12:14 0° ₹ minimum elong 16282 Oct 30 22:07 25° 11.43'3 0°29'55 desc. node 16281 Dec 12 05:10 29° ₹45'32 evening rise 16282 Nov 01 23:54 0° ₹ evening rise 16282 Nov 01 23:54 0° ₹ evening max el 16281 Dec 12 10:22 0° ≈ evening rise 16282 Nov 07 15:29 11° ₹45'28 evening max el 16281 Dec 14 05:48 1° ≈53'19 22° 01'39 evening max el 16282 Nov 17 02:25 0° ₹ evening set 16281 Dec 26 17:55 8° ≈04'13 desc. node 16282 Nov 26 02:50 12° ₹17'17 20° 31'10 evening set 16281 Dec 30 03:51 7° ≈38'18 desc. node 16282 Nov 29 02:13 14° ₹51'19 inferior conj 16282 Jan 07 16:35 3° ≈47'33 -6° 01'24 retrograde evening set 16282 Dec 07 04:24 17° ₹47'21 minimum elong 16282 Jan 07 11:30 3° ≈54'38 0.54420 AU inferior conj 16282 Dec 18 08:19 13° ₹39'33 -5° 20'11 morning rise 16282 Jan 16 02:33 0° ≈00'12 minimum elong 16282 Dec 17 23:12 13° ₹52'51 5° 17'36 direct 16282 Jan 19 13:52 29° ₹33'35 min. Earth dist. 16282 Dec 26 08:54 9° ₹41'14 16282 Jan 19 13:52 29° ₹33'35 min. Earth dist. 16282 Dec 26 08:54 9° ₹41'14 16282 Jan 22 22:27 0° ≈ direct 16282 Dec 30 22:08 8° ₹56'39	superior coni	16201 Nov. 16, 04:25	120.711140	0°55'26				1.33280 AU
Superior conj 16281 Nov 23 07:20 27°\$27'12 Superior conj 16282 Oct 30 23:43 25°\$L52'47 0°29'41 16281 Nov 24 12:14 0°3 minimum elong 16282 Nov 01 23:54 0°\$3 0°29'55 16282 Nov 01 23:54 0°\$3 16281 Dec 12 05:10 29°\$35'19 22°01'39 evening rise 16282 Nov 07 15:29 11°\$45'28 evening max el 16281 Dec 14 05:48 1°\$51'19 22°01'39 evening max el 16282 Nov 17 02:25 0°\$4 evening set 16281 Dec 30 03:51 7°\$38'18 desc. node 16282 Nov 29 02:13 14°\$51'19 20°31'10 evening set 16282 Jan 07 16:35 3°\$47'33 -6°01'24 retrograde 16282 Dec 07 04:24 17°\$47'21 minimum elong 16282 Jan 07 11:30 3°\$50'04 6°00'43 evening set 16282 Dec 09 13:11 17°\$33'24 min. Earth dist. 16282 Jan 16 02:33 0°\$60'12 minimum elong 16282 Dec 17 23:12 13°\$52'51 5°17'36 direct 16282 Jan 19 13:52 29°\$33'35 morning rise 16282 Dec 26 08:54 9°\$41'14 40°\$61'14 40					asc. Houe	10282 Oct 27 10.20	19 11614 20	
16281 Nov 24 12:14 0°B minimum elong 16282 Oct 30 22:07 25°M44'33 0°29'55 desc. node 16281 Dec 12 05:10 29°B45'32 evening rise 16282 Nov 01 23:54 0°A evening max el 16281 Dec 14 05:48 1°≈53'19 22°01'39 16282 Nov 17 02:25 0°B retrograde 16281 Dec 26 17:55 8°≈04'13 evening max el 16282 Nov 26 02:50 12°B17'17 20°31'10 evening set 16281 Dec 30 03:51 7°≈38'18 desc. node 16282 Nov 29 02:13 14°B51'19 inferior conj 16282 Jan 07 16:35 3°≈47'33 -6°01'24 retrograde 16282 Dec 07 04:24 17°B47'21 minimum elong 16282 Jan 07 14:47 3°≈50'04 6°00'43 evening set 16282 Dec 09 13:11 17°B33'24 min. Earth dist. 16282 Jan 07 11:30 3°≈54'38 0.54420 AU inferior conj 16282 Dec 18 08:19 13°B39'33 -5°20'11 morning rise 16282 Jan 16 02:33 0°≈00'12 minimum elong 16282 Dec 17 23:12 13°B52'51 5°17'36 direct 16282 Jan 19 13:52 29°B33'35 morning rise 16282 Dec 26 08:54 9°B41'14 direct 16282 Jan 22 22:27 0°≈ direct 16282 Dec 30 22:08 8°B56'39	_			0 33 32	superior coni	16282 Oct 30 23:43	25°M.52'47	0°29'41
desc. node 16281 Dec 12 05:10 29°₹45'32 evening rise 16282 Nov 01 23:54 0°₹ 16281 Dec 12 10:22 0°≈ evening rise 16282 Nov 07 15:29 11°₹45'28 16281 Dec 14 05:48 1°≈53'19 22°01'39 evening max el 16282 Nov 17 02:25 0°₹ retrograde 16281 Dec 26 17:55 8°≈04'13 evening max el 16282 Nov 26 02:50 12°₹17'17 20°31'10 evening set 16281 Dec 30 03:51 7°≈38'18 desc. node 16282 Nov 29 02:13 14°₹51'19 inferior conj 16282 Jan 07 16:35 3°≈47'33 -6°01'24 retrograde 16282 Dec 07 04:24 17°₹47'21 minimum elong 16282 Jan 07 11:30 3°≈50'04 6°00'43 evening set 16282 Dec 09 13:11 17°₹33'24 min. Earth dist. 16282 Jan 16 02:33 0°≈00'12 minimum elong 16282 Dec 17 23:12 13°₹39'33 -5°20'11 morning rise 16282 Jan 16 02:53 30°₹5 min. Earth dist. 16282 Dec 19 17:02 12°₹51'53 0.54602 AU direct 16282 Jan 19 13:52 29°₹33'35 morning rise 16282 Dec 26 08:54 9°₹41'14 16282 Jan 22 22:27 0°≈ direct 16282 Dec 30 22:08 8°₹56'39	evening rise							
evening max el 16281 Dec 12 10:22 0°≈ evening rise 16282 Nov 07 15:29 11°₹45'28 evening max el 16281 Dec 14 05:48 1°≈53'19 22°01'39 16282 Nov 17 02:25 0°♂ retrograde 16281 Dec 26 17:55 8°≈04'13 evening max el 16282 Nov 26 02:50 12°♂17'17 20°31'10 evening set 16281 Dec 30 03:51 7°≈38'18 desc. node 16282 Nov 29 02:13 14°♂51'19 inferior conj 16282 Jan 07 16:35 3°≈47'33 -6°01'24 retrograde 16282 Dec 07 04:24 17°♂47'21 minimum elong 16282 Jan 07 11:30 3°≈50'04 6°00'43 evening set 16282 Dec 09 13:11 17°♂33'24 min. Earth dist. 16282 Jan 07 11:30 3°≈54'38 0.54420 AU inferior conj 16282 Dec 18 08:19 13°♂39'33 -5°20'11 morning rise 16282 Jan 16 02:33 0°≈00'12 minimum elong 16282 Dec 17 23:12 13°♂52'51 5°17'36 direct 16282 Jan 19 13:52 29°♂33'35 morning rise 16282 Dec 26 08:54 9°♂41'14 16282 Jan 22 22:27 0°≈ direct 16282 Dec 30 22:08 8°♂56'39	desc. node				minimum ciong			0 27 33
evening max el 16281 Dec 14 05:48 1°≈53'19 22°01'39 16282 Nov 17 02:25 0°♂ retrograde 16281 Dec 26 17:55 8°≈04'13 evening max el 16282 Nov 26 02:50 12°♂17'17 20°31'10 evening set 16281 Dec 30 03:51 7°≈38'18 desc. node 16282 Nov 29 02:13 14°♂51'19 inferior conj 16282 Jan 07 16:35 3°≈47'33 -6°01'24 retrograde 16282 Dec 07 04:24 17°♂47'21 minimum elong 16282 Jan 07 14:47 3°≈50'04 6°00'43 evening set 16282 Dec 09 13:11 17°♂33'24 min. Earth dist. 16282 Jan 07 11:30 3°≈54'38 0.54420 AU inferior conj 16282 Dec 18 08:19 13°♂39'33 -5°20'11 morning rise 16282 Jan 16 02:53 30°R♂ min. Earth dist. 16282 Dec 19 17:02 12°♂51'53 0.54602 AU direct 16282 Jan 19 13:52 29°♂33'35 morning rise 16282 Dec 26 08:54 9°♂41'14 16282 Jan 22 22:27 0°≈ direct 16282 Dec 30 22:08 8°♂56'39	dese. node				evening rise			
evening max el 16281 Dec 26 17:55 8°≈04'13 evening max el 16282 Nov 26 02:50 12°₹17'17 20°31'10 evening set 16281 Dec 30 03:51 7°≈38'18 desc. node 16282 Nov 29 02:13 14°₹51'19 inferior conj 16282 Jan 07 16:35 3°≈47'33 -6°01'24 retrograde 16282 Dec 07 04:24 17°₹47'21 minimum elong 16282 Jan 07 14:47 3°≈50'04 6°00'43 evening set 16282 Dec 09 13:11 17°₹33'24 min. Earth dist. 16282 Jan 07 11:30 3°≈54'38 0.54420 AU inferior conj 16282 Dec 18 08:19 13°₹39'33 -5°20'11 morning rise 16282 Jan 16 02:33 0°≈00'12 minimum elong 16282 Dec 17 23:12 13°₹52'51 5°17'36 min. Earth dist. 16282 Jan 16 02:53 30°₹₹ min. Earth dist. 16282 Dec 19 17:02 12°₹51'53 0.54602 AU direct 16282 Jan 22 22:27 0°≈ direct 16282 Dec 30 22:08 8°₹56'39	evening max el		1° ≈ 53'19	22°01'39	<i>y</i>			
evening set 16281 Dec 30 03:51 7°≈38'18 desc. node 16282 Nov 29 02:13 14°₹51'19 inferior conj 16282 Jan 07 16:35 3°≈47'33 -6°01'24 retrograde 16282 Dec 07 04:24 17°₹47'21 minimum elong 16282 Jan 07 14:47 3°≈50'04 6°00'43 evening set 16282 Dec 09 13:11 17°₹33'24 min. Earth dist. 16282 Jan 07 11:30 3°≈54'38 0.54420 AU inferior conj 16282 Dec 18 08:19 13°₹39'33 -5°20'11 morning rise 16282 Jan 16 02:33 0°≈00'12 minimum elong 16282 Dec 17 23:12 13°₹52'51 5°17'36 16282 Jan 16 02:53 30°₹5 min. Earth dist. 16282 Dec 19 17:02 12°₹51'53 0.54602 AU direct 16282 Jan 19 13:52 29°₹33'35 morning rise 16282 Dec 26 08:54 9°₹41'14 16282 Jan 22 22:27 0°≈ direct 16282 Dec 30 22:08 8°₹56'39	•				evening max el			20°31'10
inferior conj 16282 Jan 07 16:35 3°≈47'33 -6°01'24 retrograde 16282 Dec 07 04:24 17°₹47'21 retrograde 16282 Dec 09 13:11 17°₹33'24 retrograde 16282 Jan 07 14:47 3°≈50'04 6°00'43 evening set 16282 Dec 09 13:11 17°₹33'24 retrograde 16282 Jan 07 11:30 3°≈54'38 0.54420 AU inferior conj 16282 Dec 18 08:19 13°₹39'33 -5°20'11 retrograde evening set 16282 Dec 18 08:19 13°₹39'33 -5°20'11 retrograde evening set 16282 Dec 18 08:19 13°₹39'33 -5°20'11 retrograde evening set 16282 Dec 18 08:19 13°₹39'33 -5°20'11 retrograde evening set 16282 Dec 18 08:19 13°₹39'33 -5°20'11 retrograde evening set 16282 Dec 18 08:19 13°₹39'33 -5°20'11 retrograde evening set 16282 Dec 18 08:19 13°₹39'33 -5°20'11 retrograde evening set 16282 Dec 19 17:02 12°₹51'53 0.54602 AU retrograde evening set 16282 Dec 19 17:02 12°₹51'53 0.54602 AU retrograde evening set 16282 Dec 26 08:54 9°₹41'14 retrograde evening set 16282 Dec 26 08:54 9°₹41'14 retrograde evening set 16282 Dec 26 08:54 9°₹41'14 retrograde evening set 16282 Dec 30 22:08 8°₹56'39 retrograde evening set 16282 Dec 30 22:08 8°₹56'39 retrograde evening set 16282 Dec 30 0.546'2 Dec 30 0.546'2 AU retrograde evening set 16282 Dec 30 0.546'2 Dec 30 0.546'2 AU retrograde evening set 16282 Dec 30 0.546'2 AU retrogr	•				•			
min. Earth dist. 16282 Jan 07 11:30 3°≈54'38 0.54420 AU inferior conj 16282 Dec 18 08:19 13°る39'33 -5°20'11 morning rise 16282 Jan 16 02:33 0°≈00'12 minimum elong 16282 Dec 17 23:12 13°る52'51 5°17'36 min. Earth dist. 16282 Dec 19 17:02 12°る51'53 0.54602 AU direct 16282 Jan 19 13:52 29°る33'35 morning rise 16282 Dec 26 08:54 9°る41'14 16282 Jan 22 22:27 0°≈ direct 16282 Dec 30 22:08 8°る56'39	•	16282 Jan 07 16:35	3° ≈ 47'33	-6°01'24	retrograde	16282 Dec 07 04:24	17° る 47'21	
morning rise 16282 Jan 16 02:33 0°≈00'12 minimum elong 16282 Dec 17 23:12 13°₹52'51 5°17'36 16282 Jan 16 02:53 30°₹₹ min. Earth dist. 16282 Dec 19 17:02 12°₹51'53 0.54602 AU direct 16282 Jan 19 13:52 29°₹33'35 morning rise 16282 Dec 26 08:54 9°₹41'14 16282 Jan 22 22:27 0°≈ direct 16282 Dec 30 22:08 8°₹56'39	minimum elong	16282 Jan 07 14:47	3° ≈ 50'04	6°00'43	evening set	16282 Dec 09 13:11	17° る 33'24	
16282 Jan 16 02:53 30°R3 min. Earth dist. 16282 Dec 19 17:02 12°351'53 0.54602 AU direct 16282 Jan 19 13:52 29°333'35 morning rise 16282 Dec 26 08:54 9°341'14 16282 Jan 22 22:27 0°≈ direct 16282 Dec 30 22:08 8°356'39	min. Earth dist.	16282 Jan 07 11:30	3° ≈ 54'38	0.54420 AU	inferior conj	16282 Dec 18 08:19	13° る 39'33	-5°20'11
direct 16282 Jan 19 13:52 29°♂33'35 morning rise 16282 Dec 26 08:54 9°♂41'14 16282 Jan 22 22:27 0°≈ direct 16282 Dec 30 22:08 8°♂56'39	morning rise	16282 Jan 16 02:33	0° ≈ 00'12		minimum elong	16282 Dec 17 23:12		5°17'36
16282 Jan 22 22:27 0°≈ direct 16282 Dec 30 22:08 8°♂56'39								0.54602 AU
	direct				•			
morning max el 16282 Jan 31 21:34 5°≈31'19 21°51'18 morning max el 16283 Jan 13 08:29 15°♂32'09 23°39'35								
	morning max el	16282 Jan 31 21:34	5°≈31'19	21°51'18	morning max el	16283 Jan 13 08:29	15° 6 32'09	23°39'35

						=	
asc. node	16283 Jan 23 15:33	28° る 29'04		direct	16283 Dec 11 17:02	18° ∡ 18'44	
	16283 Jan 24 14:36	0° ≈		morning max el	16283 Dec 25 17:18	25° ∡ ¹24'07	25°26'49
morning set	16283 Feb 06 05:21	24° ≈ 03'15			16283 Dec 30 00:26	0°ಕ	
	16283 Feb 08 23:18	0° ∀		asc. node	16284 Jan 10 12:47	16° る 47'25	
					16284 Jan 17 13:26	0° ≈	
superior conj	16283 Feb 13 01:37	8° 升 55'42	1°27'57	morning set	16284 Jan 21 17:03	8° ≈ 41'54	
minimum elong	16283 Feb 13 03:26	9° ₩ 05'32	1°28'06	C			
max. Earth dist.	16283 Feb 15 22:19	15° ¥ 04'09	1.32862 AU	superior conj	16284 Jan 28 10:32	23° ≈ 31'40	1°36'05
evening rise	16283 Feb 20 19:15	25°\(\frac{1}{25}\)06'48	1.52002110	minimum elong	16284 Jan 28 11:25	23°≈36'32	1°36'30
evening rise	16283 Feb 23 07:00	25 γ (00 40		max. Earth dist.	16284 Jan 30 00:38	27°≈01'55	1.31715 AU
		3° Υ 27'02		max. Earm dist.		27 ≈ 01 33	1.31/13 AU
desc. node	16283 Feb 25 02:34				16284 Jan 31 09:12		
	16283 Mar 13 04:42	0°8		evening rise	16284 Feb 04 15:30	9° ∺ 03'51	
evening max el	16283 Mar 26 23:22		27°26'32	desc. node	16284 Feb 11 23:16	23° ∺ 23′59	
retrograde	16283 Apr 09 16:21	24° 8 19'05			16284 Feb 15 16:14	0° Y	
evening set	16283 Apr 16 09:48	21° 8 51'12		evening max el	16284 Mar 08 10:00	29° Ƴ 39'24	27°35'48
min. Earth dist.	16283 Apr 20 05:11	18° 8 25'10	0.64372 AU		16284 Mar 08 18:41	$_{0\circ}$ 8	
asc. node	16283 Apr 21 12:54	17° 8 01'22		retrograde	16284 Mar 22 09:09	7° と 08'21	
inferior conj	16283 Apr 22 19:52	15° 8 38'01	0°24'07	evening set	16284 Mar 29 04:31	4° ႘ 52'51	
minimum elong	16283 Apr 22 19:11	15° 8 39'50	0°23'24	min. Earth dist.	16284 Apr 01 22:44	1° 8 52'17	0.62259 AU
morning rise	16283 Apr 29 06:45	10° 8 15'57	0 20 2 .	min. Burur dibu	16284 Apr 03 22:16	30°RY	0.02209 110
direct	16283 May 01 21:00	9° 8 41'33		inferior conj	16284 Apr 04 23:14	29° Υ ′00'01	0047100
	•	_	17050122	minimum elong	16284 Apr 05 00:50	28° Y '56'11	0°46'45
morning max el	16283 May 08 04:54	12° 8 56'12	1/30/33	C	1		0-4645
	16283 May 20 05:24	0°II		asc. node	16284 Apr 07 10:11	26° ℃ 45'31	
desc. node	16283 May 24 03:35	6° Ⅲ 32'40		morning rise	16284 Apr 12 00:14	23° Y ′54'34	
morning set	16283 May 25 08:29	8° Ⅲ 33'45		direct	16284 Apr 14 06:40	23° Y '31'05	
	16283 Jun 07 09:07	0 \circ \odot		morning max el	16284 Apr 20 22:27	26° Y 52'53	17°46'59
					16284 Apr 23 16:40	9° 8	
superior conj	16283 Jun 07 20:10	0°9544'20	-1°41'14	morning set	16284 May 06 20:54	21° 8 20'49	
minimum elong	16283 Jun 07 11:38	0°910'05	1°41'04	desc. node	16284 May 10 00:27	26° 8 52'29	
max. Earth dist.	16283 Jun 12 15:29	8° © 22'11	1.45380 AU		16284 May 11 19:28	$\Pi^{\circ}0$	
evening rise	16283 Jun 23 15:07	25° © 23'49			,		
evening noe	16283 Jun 26 15:37	0°Ω		superior conj	16284 May 18 13:57	11° Ⅲ 33'14	-1°05'51
greatest brilliancy	16283 Jul 08 10:25	17° Ω 32'44	-0.6m	minimum elong	16284 May 18 07:53	11° I I07'52	
greatest offinality	16283 Jul 17 16:38		-0.0111	Č	•	22° I I38'13	
1		0° m)		max. Earth dist.	16284 May 25 08:07	22 п 3613	1.44094 AU
asc. node	16283 Jul 18 11:57	0° m 56'23	20001120		16284 May 29 23:22		
evening max el	16283 Jul 20 17:08	3° m) 19'07	20°01'28	evening rise	16284 Jun 02 03:40	4° 9 57'02	
retrograde	16283 Jul 28 08:08	7° m 37'46			16284 Jun 19 00:24	0 $^{\circ}$ Ω	
evening set	16283 Aug 01 06:30	6° Mp 08′52		evening max el	16284 Jul 02 15:52	17° Ω 13'54	21°09'38
inferior conj	16283 Aug 06 13:25	0° Mp 08'24	3°01'27	asc. node	16284 Jul 04 08:48	18° Ω 49'45	
minimum elong	16283 Aug 06 14:30	0° ™ 04'45	3°00'57	retrograde	16284 Jul 11 07:06	22° Ω 13'13	
	16283 Aug 06 15:54	30° R Ω		evening set	16284 Jul 15 16:24	20° Ω 26'44	
min. Earth dist.	16283 Aug 07 12:15	28° Ω 51′03	0.68146 AU	inferior conj	16284 Jul 20 21:51	14° Ω 15'30	3°08'15
morning rise	16283 Aug 11 22:05	23° Ω 42'59		minimum elong	16284 Jul 20 21:59	14° Ω 15′03	3°07'43
direct	16283 Aug 17 12:55	21° Ω 16'01		min. Earth dist.	16284 Jul 21 07:13	13° Ω 42'53	0.68899 AU
desc. node	16283 Aug 20 01:58	21° Ω 41'44		morning rise	16284 Jul 26 03:17	7° Ω 55'11	***************************************
morning max el	16283 Aug 29 03:05	28° Ω 12'21	24°36'15	direct	16284 Jul 31 06:17	5°Ω42'06	
morning max ci			24 30 13	desc. node		7° Ω 51'07	
	16283 Aug 30 20:08	0° m)			16284 Aug 05 23:17		22007116
	16283 Sep 21 21:53	0° ⊽		morning max el	16284 Aug 10 14:30	11° Ω 50'56	23 0/16
morning set	16283 Oct 03 17:32	19° ≏ 28'30			16284 Aug 25 02:58	0° m	
max. Earth dist.	16283 Oct 07 06:57	25° ≏ 48'18	1.37547 AU	morning set	16284 Sep 13 23:13	0° م 24'29	
	16283 Oct 09 13:52	0° M			16284 Sep 13 17:18	0∘ ⊽	
				max. Earth dist.	16284 Sep 18 05:54	7° ≏ 37'26	1.39966 AU
superior conj	16283 Oct 14 08:15	9° ™ 02'45	-0°01'50				
minimum elong	16283 Oct 14 08:20	9°M03'13	0°01'26	superior conj	16284 Sep 26 02:05	21° ₽ 33'10	-0°37'28
behind sun begin	16283 Oct 14 01:39	8°M30'50		minimum elong	16284 Sep 26 04:56	21° ≏ 46'17	0°36'48
behind sun end	16283 Oct 14 15:01	9°M35'41		asc. node	16284 Sep 30 09:50	29° ₽ 37'15	
asc. node	16283 Oct 14 13:06	9°M26'23			16284 Sep 30 14:39	0° M	
evening rise	16283 Oct 22 19:04	25°M50'48		evening rise	16284 Oct 05 15:10	9° ™ 36'26	
3.4	16283 Oct 24 21:07	23 11 0 30 4 0		2.0	16284 Oct 17 03:55	0° √	
evening max el	16283 Nov 08 14:27	23° × ¹ 29'42	19°21'25	evening max el	16284 Oct 21 15:04	5° ∡ ¹32'06	18°34'04
•			17 41 43	•			10 34 04
desc. node	16283 Nov 15 23:20	28° 🗷 00'21		retrograde	16284 Oct 29 15:46	9° х 36'10	
retrograde	16283 Nov 18 00:56	28° ∡ 13'35		evening set	16284 Oct 31 14:30	9° ₹ 22'36	
evening set	16283 Nov 19 22:58	28° ∡ 02'43		desc. node	16284 Nov 01 20:31	9° ∡ ¹00'21	
inferior conj	16283 Nov 28 12:23	23° х 54′40	-3°52'38	inferior conj	16284 Nov 08 13:02	4° ∡ °53'52	
minimum elong	16283 Nov 28 03:10	24° ₹ 09'47	3°48'51	minimum elong	16284 Nov 08 07:52	5° ₹ 03'44	
min. Earth dist.	16283 Dec 01 02:01	22° х 13′44	0.55694 AU	min. Earth dist.	16284 Nov 11 17:05	2° х ⁴29'19	0.57492 AU
morning rise	16283 Dec 06 05:09	19° ∡ ¹27'25		morning rise	16284 Nov 15 21:56	29°M50'12	

	16284 Nov 15 14:19	30°RM₊		morning rise	16285 Oct 28 10:41	11° M L02'58	
direct	16284 Nov 22 02:17	28°M14'40		direct	16285 Nov 04 00:22	9°ML02'11	
	16284 Nov 28 17:21	0° ∡ 7		morning max el	16285 Nov 18 06:42	16°ML47'16	27°45'50
morning max el	16284 Dec 06 07:49	5° х 42'31	26°53'30	5 5	16285 Nov 29 05:02	0° ∡ ¹	
S	16284 Dec 24 04:41	0°ಕ		asc. node	16285 Dec 14 06:59	25° ∡ ¹08'47	
asc. node	16284 Dec 27 09:56	5°₹44'08			16285 Dec 16 18:20	0°ರ	
morning set	16285 Jan 05 02:48	23° る 10'46		morning set	16285 Dec 20 08:47	7° る 25'28	
	16285 Jan 08 05:45	0° ≈		max. Earth dist.	16285 Dec 26 14:53	21° ට 05'37	1.31013 AU
superior conj	16285 Jan 11 21:35	8° ≈ 10′16	1°38'06	superior conj	16285 Dec 27 08:53	_	1°34'05
minimum elong	16285 Jan 11 21:25	8° ≈ 09'16	1°38'41	minimum elong	16285 Dec 27 07:42		1°34'41
max. Earth dist.	16285 Jan 12 07:18	9° ≈ 04'38	1.31094 AU		16285 Dec 30 14:28	0° ≈	
evening rise	16285 Jan 18 18:24	23°≈15'48		evening rise	16286 Jan 03 01:50	7°≈37'35	
	16285 Jan 22 00:18	0°) {			16286 Jan 14 12:19	0° ∀	
desc. node	16285 Jan 28 19:59	12°) 58′06 0° Υ		desc. node	16286 Jan 15 16:46	2°) 01'04	26011126
evening max el	16285 Feb 08 14:39 16285 Feb 18 15:46	0° γ 11° Υ 48'56	27°11'12	evening max el	16286 Jan 31 14:02 16286 Feb 12 06:52	23° ¥ 06'16 0° Ƴ	26°11'36
retrograde	16285 Mar 04 16:46	19° Y 07'44	2/ 1112	retrograde	16286 Feb 14 13:21	0° Υ 12'20	
evening set	16285 Mar 11 08:20	19 γ 07 44 17° γ 11'58		renograde	16286 Feb 16 19:35	0 1 12 20 30°R ∺	
min. Earth dist.	16285 Mar 15 06:06	14° Υ 28'36	0.60000 AU	evening set	16286 Feb 20 17:51	28°) (41'32	
inferior conj	16285 Mar 18 11:25	11° Υ 47'55		min. Earth dist.	16286 Feb 25 03:12		0.57809 AU
minimum elong	16285 Mar 18 16:22	11° Y '37'35	2°09'29	inferior conj	16286 Feb 28 04:44	23°) 51'42	
asc. node	16285 Mar 25 07:30	7° Ƴ 17'47		minimum elong	16286 Feb 28 13:09	23°) (36'33	
morning rise	16285 Mar 26 03:56	7° Υ ′01'47		morning rise	16286 Mar 08 11:41	19° ¥ 27'10	
direct	16285 Mar 28 04:43	6° Ƴ 45'34		direct	16286 Mar 10 10:46	19° ∺ 14'32	
morning max el	16285 Apr 04 13:11	10° Y ′25'41	18°02'00	asc. node	16286 Mar 12 04:49	19° ¥ 25′03	
	16285 Apr 17 10:29	9° 8		morning max el	16286 Mar 18 21:16	23° ¥ 23'54	18°37'14
morning set	16285 Apr 20 02:58	4° 8 56'13			16286 Mar 24 04:13	0° Y	
desc. node	16285 Apr 26 21:14	17° 8 20'15		morning set	16286 Apr 03 21:28	19° Ƴ 04'36	
					16286 Apr 09 13:28	0°8	
superior conj	16285 Apr 30 06:59	23° 8 25'03				4.	
minimum elong	16285 Apr 30 04:37	23° 8 14'38	0°28'02	superior conj	16286 Apr 12 20:18	6° 8 11'38	0°07'37
P. d. P.	16285 May 04 01:53	0°Ⅱ 	1 100/0 177	minimum elong	16286 Apr 12 20:48	6° 8 13'59	0°07'11
max. Earth dist.	16285 May 07 20:39	6° Ⅱ 22'54	1.42263 AU	behind sun begin	16286 Apr 12 14:30	5° 8 44'36	
evening rise	16285 May 13 06:51	15° Ⅱ 13'08 0° ©		behind sun end	16286 Apr 13 03:06	6° 8 43'17	
	16285 May 22 20:23 16285 Jun 14 06:44	0°€		desc. node max. Earth dist.	16286 Apr 13 17:59 16286 Apr 20 05:07	7° 8 52'10 19° 8 27'42	1.40077 AU
evening max el	16285 Jun 15 09:29	1° Ω 08'36	22°27'14	evening rise	16286 Apr 24 06:56	26° 8 24'48	1.400// AU
asc. node	16285 Jun 21 05:43	5°Ω45'33	22 27 14	evening rise	16286 Apr 26 10:55	0°Ⅱ	
retrograde	16285 Jun 25 04:30	6° Ω 52'20			16286 May 16 11:31	0°©	
evening set	16285 Jun 30 01:20	4°Ω49'26		evening max el	16286 May 28 23:58	15° 5 04'08	23°48'43
<i>Ş</i>	16285 Jul 04 05:32	30°Rூ		asc. node	16286 Jun 08 02:42	21°526'53	
inferior conj	16285 Jul 05 07:46	28°929'05	3°04'13	retrograde	16286 Jun 08 23:11	21°530'00	
minimum elong	16285 Jul 05 06:58	28° © 31'53	3°03'31	evening set	16286 Jun 14 07:43	19°5513'04	
min. Earth dist.	16285 Jul 05 03:58	28° 5 42'19	0.69167 AU	min. Earth dist.	16286 Jun 19 00:25	13° 5 43'29	0.68943 AU
morning rise	16285 Jul 10 12:26	22° © 16'02		inferior conj	16286 Jun 19 17:18	12°545'49	2°49'45
direct	16285 Jul 15 03:15	20° © 20'41		minimum elong	16286 Jun 19 15:42	12° © 51'15	2°48'48
desc. node	16285 Jul 23 20:32	25° © 16'52		morning rise	16286 Jun 24 23:43	6° 9 541'27	
morning max el	16285 Jul 24 04:50	25°\$37'22	21°40'44	direct	16286 Jun 29 02:33	5° © 05'39	
	16285 Jul 28 04:02	0° Ω		morning max el	16286 Jul 07 01:04	9° © 34'56	20°23'22
	16285 Aug 18 13:30	0° m)		desc. node	16286 Jul 10 17:44	13°939'50	
morning set	16285 Aug 25 05:01	10° Mp 19'36	1 42251 ATT	marning sat	16286 Jul 22 16:52	0° Ω 19° Ω 26'35	
max. Earth dist.	16285 Aug 31 09:54 16285 Sep 06 03:56	20° ™ 20'32 0° ₽	1.42251 AU	morning set	16286 Aug 04 15:05 16286 Aug 11 09:29	19 8 (20 33	
	10283 ЗСР 00 03.30	0 ==		max. Earth dist.	16286 Aug 13 20:44	3° m) 55'30	1.44135 AU
superior conj	16285 Sep 08 00:41	3° ≏ 12'50	-1°14'24	mar. Zurur uist.	10200 Aug 13 20.44	5 Hy 55 50	1.11133 AU
minimum elong	16285 Sep 08 06:48	3° ₾ 39'22		superior conj	16286 Aug 20 00:27	13° m 54'27	-1°47'27
asc. node	16285 Sep 17 06:31	19° ≙ 42'38		minimum elong	16286 Aug 20 08:22	14° Mp 27'06	
evening rise	16285 Sep 18 23:58	22° £ 51'54		<i>G</i>	16286 Aug 29 13:29	0∘ ಹ	
-	16285 Sep 22 22:10	0° M		evening rise	16286 Sep 01 16:48	5° £ 25'39	
evening max el	16285 Oct 05 00:26	18° ™ 14'36	18°07'56	asc. node	16286 Sep 04 03:11	9° ≙ 38'52	
retrograde	16285 Oct 12 01:34	21°M51'23			16286 Sep 17 05:45	0° M ₊	
evening set	16285 Oct 14 06:10	21°M30'51		evening max el	16286 Sep 18 14:20	1°ML27'10	18°01'21
desc. node	16285 Oct 19 17:46	18°M10'30		retrograde	16286 Sep 25 02:30	4°M50'04	
inferior conj	16285 Oct 21 11:13	16°M₄40′35		evening set	16286 Sep 27 14:52	4° ጤ 18'57	
minimum elong	16285 Oct 21 10:04	16°M43'08	0°32'12		16286 Oct 03 07:58	30° RΩ	
min. Earth dist.	16285 Oct 24 16:34	13°M49'26	0.59682 AU	inferior conj	16286 Oct 04 04:00	29° ≏ 09'27	0°45'19

ratra ara da	16290 Jul 21 04:47	1° m/ 10'30		aca mada	16291 Jun 29 11:08	13° Ω 30′26	
retrograde				asc. node			
	16290 Jul 24 17:29	30°RΩ		retrograde	16291 Jul 05 03:21	15° Ω 47'55	
evening set	16290 Jul 25 07:50	29° Ω 33'47	2005141	evening set	16291 Jul 09 17:32	13° Ω 54'02	2005150
inferior conj	16290 Jul 30 13:48	23° Ω 28'33	3°05'41	inferior conj	16291 Jul 14 23:05	7° Ω 38'26	3°07'50
minimum elong	16290 Jul 30 14:29	23° Ω 26′12	3°05'11	minimum elong	16291 Jul 14 22:49	7° Ω 39'23	3°07'14
min. Earth dist.	16290 Jul 31 06:47	22° Ω 30′11	0.68529 AU	min. Earth dist.	16291 Jul 15 02:45	7° Ω 25'38	0.69073 AU
morning rise	16290 Aug 04 20:50	17° Ω 05′13		morning rise	16291 Jul 20 03:54	1° Ω 21′00	
direct	16290 Aug 10 06:43	14° Ω 43'47			16291 Jul 22 02:43	30° ₹ 5	
desc. node	16290 Aug 14 04:23	15° Ω 44'17		direct	16291 Jul 25 01:36	29° © 15'25	
morning max el	16290 Aug 21 08:22	21° Ω 20′19	23°58'41		16291 Jul 28 05:53	$0 {\circ} \Omega$	
	16290 Aug 28 20:24	O° m y		desc. node	16291 Aug 01 01:40	2° Ω 28′19	
	16290 Sep 18 12:55	0∘ ত		morning max el	16291 Aug 03 20:50	5° Ω 02'18	22°29'44
morning set	16290 Sep 25 13:15	11° ≏ 35'34			16291 Aug 23 01:29	0° m ⁄	
max. Earth dist.	16290 Sep 29 07:07	18° ഫ 06'00	1.38578 AU	morning set	16291 Sep 06 08:50	22° m 05'33	
	16290 Oct 05 19:35	0° M			16291 Sep 11 03:44	0∘ ⊽	
				max. Earth dist.	16291 Sep 11 07:50	0° ჲ 17'13	1.40967 AU
superior conj	16290 Oct 06 18:36	1°M48'43	-0°16'33		•		
minimum elong	16290 Oct 06 19:45	1°M54'10	0°16'02	superior conj	16291 Sep 19 04:44	13° Ω 57'59	-0°53'14
behind sun begin	16290 Oct 06 18:54	1°M50'08		minimum elong	16291 Sep 19 09:00	14° Ω 17'04	
behind sun end	16290 Oct 06 20:36	1°M58'12		asc. node	16291 Sep 25 12:04	25° £ 31'10	0 32 20
asc. node	16290 Oct 08 15:21	5°M22'28		asc. node	16291 Sep 27 21:25	0°M	
				avanina riaa	-		
evening rise	16290 Oct 15 15:38	19°M06'04		evening rise	16291 Sep 29 07:27	2°M40'00	10020120
	16290 Oct 21 07:41	0° ∡ ¹	10050121	evening max el	16291 Oct 15 05:03	28°M12'29	18°20'28
evening max el	16290 Nov 01 00:15	15° ₹ '52'19	18°58'31		16291 Oct 17 06:14	0° ∡ 7	
retrograde	16290 Nov 09 19:19	20° ∡ 18′22		retrograde	16291 Oct 22 18:40	2° ₹ 03'44	
desc. node	16290 Nov 10 01:44	20° ∡ 18′08		evening set	16291 Oct 24 19:20	1° ∡ ′47'49 –	
evening set	16290 Nov 11 16:41	20° ∡ ¹06'53		desc. node	16291 Oct 27 22:55	0° ∡ 26′12	
inferior conj	16290 Nov 20 00:25	15° ∡ 50′00			16291 Oct 28 15:54	30°RM	
minimum elong	16290 Nov 19 16:43	16° ∡ '03'28	3°05'29	inferior conj	16291 Nov 01 10:27	27° ™ 09'51	-1°26'40
min. Earth dist.	16290 Nov 22 21:46	13° ∡ ¹49'08	0.56390 AU	minimum elong	16291 Nov 01 07:08	27° ™ 16'37	1°24'47
morning rise	16290 Nov 27 14:00	11° ∡ *07'35		min. Earth dist.	16291 Nov 04 16:23	24°M31'25	0.58384 AU
direct	16290 Dec 03 09:31	9° ∡ ¹47'58		morning rise	16291 Nov 08 15:27	21°M50'34	
morning max el	16290 Dec 17 12:55	17° ∡ 03′01	26°07'18	direct	16291 Nov 15 00:25	20°M03'54	
	16290 Dec 28 03:52	ರ°0		morning max el	16291 Nov 29 07:14	27° M 40'36	27°20'32
asc. node	16291 Jan 04 15:09	12° る 07'23			16291 Dec 01 13:35	0° ∡ 7	
	16291 Jan 13 17:38	0° ≈ ≈			16291 Dec 21 19:48	0°రె	
morning set	16291 Jan 14 18:40	2°≈14'00		asc. node	16291 Dec 22 12:15	1° る 16'55	
Ü				morning set	16291 Dec 30 03:04	16° る 37'33	
superior conj	16291 Jan 21 12:11	17° ≈ 06'12	1°37'40		16292 Jan 05 04:57	0° ≈	
minimum elong	16291 Jan 21 12:38	17° ≈ 08'37			10292 0011 00 0 1.07		
max. Earth dist.	16291 Jan 22 14:14	19° ≈ 31'02	1.31386 AU	superior conj	16292 Jan 05 23:35	1° ≈ 44'23	1°37'08
max. Earth dist.	16291 Jan 27 09:35	0° ∺	1.51500710	minimum elong	16292 Jan 05 22:57	1°≈40'54	1°37'45
evening rise	16291 Jan 28 13:11	2° ∺ 25'51		max. Earth dist.	16292 Jan 05 21:40	1°≈33'40	1.30988 AU
desc. node	16291 Feb 06 01:30	19° X 07'21				1 ≈33 40 16°≈42'14	1.30988 AU
desc. node		19 π 0/21 0° Υ		evening rise	16292 Jan 12 18:14		
	16291 Feb 12 10:12		27020127		16292 Jan 19 06:57	0°) {	
evening max el	16291 Mar 01 14:02	22° Y 17'05	27°29'36	desc. node	16292 Jan 23 22:14	8° ¥ 29'16	
retrograde	16291 Mar 15 14:02	29° Y '42'00			16292 Feb 07 19:16	0°Υ	
evening set	16291 Mar 22 08:50	27° Y ′33'49		evening max el	16292 Feb 11 16:35	4° Υ 03'54	26°49'53
min. Earth dist.	16291 Mar 26 03:43	24° Y ′42'07	0.61311 AU	retrograde	16292 Feb 25 17:27	11° Υ 18'23	
inferior conj	16291 Mar 29 07:13	21° Y ′52'33		evening set	16292 Mar 03 05:19	9° Y ′32′24	
minimum elong	16291 Mar 29 10:08	21° Y '45'58	1°20'25	min. Earth dist.	16292 Mar 07 06:34	6° Y 53′10	0.59045 AU
asc. node	16291 Apr 02 12:38	18° Y 26'46		inferior conj	16292 Mar 10 11:44	4° Υ 22'18	
morning rise	16291 Apr 05 14:46	16° Ƴ 55'13		minimum elong	16292 Mar 10 18:15	4° Ƴ 09'30	2°47'20
direct	16291 Apr 07 18:35	16° Ƴ 35'11			16292 Mar 17 14:24	30°Ŗ ℋ	
morning max el	16291 Apr 14 16:09	20° Y ′02'59	17°51'04	morning rise	16292 Mar 18 10:49	29°) 45′33	
	16291 Apr 22 02:06	$_{0\circ}$ 8		asc. node	16292 Mar 19 09:55	29° ∺ 35′09	
morning set	16291 Apr 30 08:34	14° 8 23'51		direct	16292 Mar 20 10:06	29°) €31'25	
desc. node	16291 May 05 02:41	22° 8 54'24			16292 Mar 23 03:49	0° Y	
	16291 May 09 03:38	0° I I		morning max el	16292 Mar 28 04:37	3° Y 22'37	18°14'26
				morning set	16292 Apr 12 20:27	28° Y 14'21	
superior conj	16291 May 11 08:58	3° Ⅱ 49'38	-0°49'44	<i>5 ,</i>	16292 Apr 13 18:52	0°8	
minimum elong	16291 May 11 04:29	3° П 30'31		desc. node	16292 Apr 20 23:28	13° 8 24'10	
max. Earth dist.	16291 May 18 15:10	15° ∏ 56'12	1.43373 AU			02.10	
evening rise	16291 May 25 06:58	26° I I33'30	15575710	superior conj	16292 Apr 22 11:08	16° 8 06'05	-0°12'23
Svening 1150	16291 May 27 12:07	20 π 33 30 0° ©		minimum elong	16292 Apr 22 11:08 16292 Apr 22 10:09	16° 8 01'35	
	16291 Jun 17 04:36	0°€ 0°€		behind sun begin	16292 Apr 22 10:09 16292 Apr 22 05:32	15° 8 40'47	0 12 37
evening max el	16291 Jun 17 04:36 16291 Jun 26 00:33	10° Ω 29'33	210/11/10	behind sun begin	16292 Apr 22 05:32 16292 Apr 22 14:45	16° 8 22'22	

max. Earth dist.	16292 Apr 30 01:18	29° 8 22'12	1.41360 AU	minimum elong	16293 Apr 05 08:59	29° Ƴ 17'21	0°20'44
	16292 Apr 30 10:16	Π °0			16293 Apr 05 17:57	9° 8	
evening rise	16292 May 04 18:41	7° ∏ 12'19		desc. node	16293 Apr 07 20:12	3° 8 56'04	
	16292 May 19 14:47	0.22		max. Earth dist.	16293 Apr 12 07:56	12° 8 06'19	1.39097 AU
evening max el	16292 Jun 07 16:25	24°523'48	23°01'47	evening rise	16293 Apr 16 03:47	18° 8 46'43	
asc. node	16292 Jun 15 08:02 16292 Jun 15 11:55	29° © 56'33 0° Ω			16293 Apr 22 22:47 16293 May 13 21:18	0°€ 0°∏	
retrograde	16292 Jun 17 23:52	0° Ω 26'52		evening max el	16293 May 13 21.18 16293 May 21 06:17		24°23'10
retrograde	16292 Jun 20 08:23	30°Rூ		retrograde	16293 Jun 01 17:03	15°900'58	24 25 10
evening set	16292 Jun 23 01:35	28° © 17'42		asc. node	16293 Jun 02 05:03	14°959'55	
inferior conj	16292 Jun 28 09:05	21° © 53'51	2°59'23	evening set	16293 Jun 07 06:22	12° © 39'29	
minimum elong	16292 Jun 28 07:55	21° © 57'53	2°58'35	min. Earth dist.	16293 Jun 11 19:32	7° © 25'32	0.68694 AU
min. Earth dist.	16292 Jun 27 23:44	22° © 26'17	0.69126 AU	inferior conj	16293 Jun 12 17:53	6° © 10'18	2°40'27
morning rise	16292 Jul 03 14:10	15° 5 44'07		minimum elong	16293 Jun 12 16:02	6°9516'32	2°39'24
direct	16292 Jul 07 23:45	13° © 57'02		morning rise	16293 Jun 18 01:48	0°509'42	
morning max el	16292 Jul 16 13:24	18° © 53'11	21°06'22		16293 Jun 18 07:08	30°R∏	
desc. node	16292 Jul 17 22:55	20°920'17		direct	16293 Jun 21 23:45	28° Ⅱ 42'10	
	16292 Jul 25 18:20	0° N			16293 Jun 25 22:53	0°©	10954120
morning set	16292 Aug 15 04:13 16292 Aug 16 05:13	0° ሙ 1° ሙ 37'21		morning max el desc. node	16293 Jun 29 12:29 16293 Jul 04 20:07	2°\$54'20 9°\$02'12	19°54'20
max. Earth dist.	16292 Aug 10 03:13	13°M)21'09	1.43107 AU	desc. flode	16293 Jul 19 11:58	9°Ω	
max. Earth dist.	10272 Mug 25 14.00	13 11/2109	1.43107710	morning set	16293 Jul 26 10:34	10°Ω33'06	
superior conj	16292 Aug 30 17:58	25° m 13'28	-1°29'17	max. Earth dist.	16293 Aug 06 03:17	27° Ω 12'45	1.44763 AU
minimum elong	16292 Aug 31 01:12		1°28'31		16293 Aug 07 21:23	0° m)	
-	16292 Sep 02 13:01	0∘ ⊽				•	
evening rise	16292 Sep 11 10:06	15° ≏ 39'12		superior conj	16293 Aug 11 07:43	5° m 30'18	-1°58'35
asc. node	16292 Sep 11 08:45	15° ≏ 33'06		minimum elong	16293 Aug 11 15:10	6° Mp 00′25	1°58'24
	16292 Sep 19 14:54	0° M		evening rise	16293 Aug 24 18:28	27° m 50'19	
evening max el	16292 Sep 27 16:54	11° M 09'17	18°02'54		16293 Aug 26 01:01	0∘ ত	
retrograde	16292 Oct 04 11:20	14°M38'26		asc. node	16293 Aug 29 05:26	5° Ω 23'41	
evening set	16292 Oct 06 19:03	14°M13'54	0002120	evening max el	16293 Sep 11 07:41	24° £ 31'50	18°04'15
inferior conj minimum elong	16292 Oct 13 17:03 16292 Oct 13 17:08	9°M15'29 9°M15'16	0°02'28 0°02'49	retrograde evening set	16293 Sep 17 17:07 16293 Sep 20 09:13	27° £ 52'23 27° £ 15'39	
transit middle	16292 Oct 13 17:08	9°M15'16	0°02'49	inferior conj	16293 Sep 26 16:29	21° £ 58'58	1°12'37
transit begin	16292 Oct 13 17:06	9°M22'55	0 024)	minimum elong	16293 Sep 26 18:21	21° ⊆ 54'00	1°12'10
transit end	16292 Oct 13 20:22	9°M07'36		min. Earth dist.	16293 Sep 29 10:02	19° Ω 04'22	0.62926 AU
desc. node	16292 Oct 13 20:11	9°M08'03		desc. node	16293 Sep 30 17:31	17° ≏ 46′28	
min. Earth dist.	16292 Oct 16 20:16	6° ™ 18'49	0.60656 AU	morning rise	16293 Oct 03 01:14	15° ≏ 48'21	
morning rise	16292 Oct 20 12:07	3°M25'50		direct	16293 Oct 09 17:25	13° ≏ 20′50	
direct	16292 Oct 27 03:53	1°M15'12		morning max el	16293 Oct 23 17:09	21° ≏ 18'44	27°52'35
morning max el	16292 Nov 10 09:20		27°56'03		16293 Oct 31 07:06	0°M₊	
	16292 Nov 26 12:07	0° ∡ 7			16293 Nov 19 15:01	0° ∡	
asc. node	16292 Dec 08 09:18	20° ₹ 50'49		asc. node	16293 Nov 25 06:17	10° х 41'34	
morning set	16292 Dec 12 22:18 16292 Dec 13 06:49	0°궁 0°궁44'31		morning set max. Earth dist.	16293 Nov 27 03:44 16293 Dec 02 06:05	14° ₹ 29'23 25° ₹ 10'30	1.31866 AU
max. Earth dist.	16292 Dec 19 04:12	13°る29'35	1.31145 AU	max. Earm dist.	16293 Dec 02 00:03	23×1030	1.51600 AU
max. Earth dist.	102)2 Dec 17 04.12	13 02733	1.51145710		10275 Dec 04 11.25	0 0	
superior conj	16292 Dec 20 10:26	16° ප 17'47	1°30'34	superior conj	16293 Dec 04 18:50	0° ප 40'46	1°17'54
minimum elong	16292 Dec 20 08:53	16° る 09'07	1°31'08	minimum elong	16293 Dec 04 16:38	0° る 28'42	1°18'19
	16292 Dec 26 14:44	0° ≈		evening rise	16293 Dec 11 13:32	15° る 33'35	
evening rise	16292 Dec 27 02:58	1° ≈ 06′25			16293 Dec 18 14:42	0° ≈	
desc. node	16293 Jan 09 19:02	27°≈15′11		desc. node	16293 Dec 27 15:56	15° ≈ 12′02	
	16293 Jan 11 12:45	0° ∀		evening max el	16294 Jan 04 22:27	25°≈09'15	24°00'03
evening max el	16293 Jan 23 11:09	14°) (58'18	25°36'48		16294 Jan 11 10:13	0°) (
retrograde	16293 Feb 06 09:09	21°) 58'47		retrograde	16294 Jan 18 11:07	1°) 51'57	
evening set min. Earth dist.	16293 Feb 12 05:56 16293 Feb 17 00:03	20° ∺ 39'51 17° ∺ 59'25	0.56961 AU	evening set	16294 Jan 23 08:04 16294 Jan 25 18:51	1°) 00′26 30°R≈	
inferior conj	16293 Feb 17 00:03 16293 Feb 19 20:08	1/° K 3923		min. Earth dist.	16294 Jan 29 10:01		0.55344 AU
minimum elong	16293 Feb 19 20:08 16293 Feb 20 05:25	15°) (48'22		inferior conj	16294 Jan 31 07:30	26°≈53'59	
morning rise	16293 Feb 28 07:49	11°) (48'35	-· · ·	minimum elong	16294 Jan 31 15:11	26°≈42'31	5°31'39
direct	16293 Mar 02 07:54	11°) (36'25		morning rise	16294 Feb 08 23:59	22°≈57'07	
asc. node	16293 Mar 06 07:15	12°) 27′12		direct	16294 Feb 11 10:19	22° ≈ 42'06	
morning max el	16293 Mar 11 08:36	16°) €01'56	18°58'46	asc. node	16294 Feb 21 04:35	27° ≈ 04'25	
	16293 Mar 21 04:18	$0^{\circ}\mathbf{\Upsilon}$		morning max el	16294 Feb 21 23:56	27° ≈ 49'39	20°06'04
morning set	16293 Mar 27 18:54	12° Ƴ 31'56			16294 Feb 24 01:03	0° ∀	
	1.000 / 05 ===	200001	000115	morning set	16294 Mar 12 00:23	27°) (06'23	
superior conj	16293 Apr 05 07:39	29° Ƴ 11′03	0°21'14		16294 Mar 13 10:20	0° Y	

0°)

16296 Feb 10 12:25

superior conj	16296 Feb 15 18:50	11° ¥ 26′15	1°26'10	asc. node	16297 Jan 11 20:23	18° る 39'54	
minimum elong	16296 Feb 15 20:46	11°) 36'41	1°26'16		16297 Jan 18 00:03	0° ≈	
max. Earth dist.	16296 Feb 18 20:12	17° ¥ 57'42	1.33072 AU	morning set	16297 Jan 23 09:34	11° ≈ 11'24	
evening rise	16296 Feb 23 14:44	27°) 44′03					
	16296 Feb 24 18:20	0° Y		superior conj	16297 Jan 30 03:13	26° ≈ 00'53	1°35'14
desc. node	16296 Feb 27 10:18	5° Y '06'20		minimum elong	16297 Jan 30 04:15	26° ≈ 06'35	1°35'37
	16296 Mar 13 07:08	0° 8			16297 Jan 31 22:42	0° ∀	
evening max el	16296 Mar 28 22:49	19° 8 28'07	27°22'38	max. Earth dist.	16297 Jan 31 21:36	29° ≈ 53'59	1.31854 AU
retrograde	16296 Apr 11 14:40	27° 8 01'19		evening rise	16297 Feb 06 09:46	11°) 38′09	
evening set	16296 Apr 18 07:19	24° 8 32'17		desc. node	16297 Feb 13 07:01	25°) €06'00	
min. Earth dist.	16296 Apr 22 03:08	21° 8 01'50	0.64660 AU		16297 Feb 16 00:12	0° Y	
asc. node	16296 Apr 22 20:32	20° 8 15'28			16297 Mar 08 23:57	0 \circ 8	
inferior conj	16296 Apr 24 16:06	18° 8 16'39	0°33'42	evening max el	16297 Mar 11 10:03	2° 8 27'07	27°36'37
minimum elong	16296 Apr 24 15:10	18° 8 19'10	0°32'53	retrograde	16297 Mar 25 08:37	9° 8 56'57	
morning rise	16296 May 01 01:05	12° 8 52'15		evening set	16297 Apr 01 03:58	7° 8 39'20	
direct	16296 May 03 16:33	12° 8 15'59		min. Earth dist.	16297 Apr 04 22:11	4° 8 35'19	0.62582 AU
morning max el	16296 May 10 00:04	15° 8 30'45	17°52'34	inferior conj	16297 Apr 07 21:24	1° 8 42'55	-0°35'23
	16296 May 20 11:56	Π °0		minimum elong	16297 Apr 07 22:35	1° 8 40'03	0°35'13
desc. node	16296 May 25 11:12	8° Ⅱ 10'54		asc. node	16297 Apr 09 17:47	29° Y ′58′07	
morning set	16296 May 27 09:51	11° Ⅱ 24'58			16297 Apr 09 16:57	30° Ŗ ♈	
	16296 Jun 07 17:40	0 \circ		morning rise	16297 Apr 14 20:08	26° Ƴ 34'42	
				direct	16297 Apr 17 03:39	26° Y ′09'47	
superior conj	16296 Jun 10 03:59	3°953'31		morning max el	16297 Apr 23 17:42	29° Y 29'51	17°46'23
minimum elong	16296 Jun 09 19:24		1°45'48		16297 Apr 24 05:43	0° 8	
max. Earth dist.	16296 Jun 14 13:50	10°952'18	1.45514 AU	morning set	16297 May 09 19:11	24° 8 03'41	
evening rise	16296 Jun 26 01:42	28°5540'19		desc. node	16297 May 12 08:06	28° 8 29'18	
	16296 Jun 26 22:33	0°N	0.6		16297 May 13 04:59	Π \circ 0	
greatest brilliancy	16296 Jul 10 17:13	20° Ω 38'05	-0.6m		1/2073/4 21 10 10	1.40\T2015.6	1011122
,	16296 Jul 17 11:58	0°M) 3°™,53133		superior conj	16297 May 21 18:18	14° Ⅱ 32'56	
asc. node	16296 Jul 19 19:41	2° My 52'22	10052127	minimum elong	16297 May 21 11:43	14° Ⅱ 05'33	
evening max el	16296 Jul 22 14:35	5° Mp 55'12	19°52'27	max. Earth dist.	16297 May 28 07:12	25°∏12'50 0° ©	1.44325 AU
retrograde	16296 Jul 30 02:29	10° Mp 08'24		avanina rica	16297 May 31 07:27 16297 Jun 05 13:15	ი∘ფ 8° © 10'13	
evening set inferior conj	16296 Aug 02 23:15 16296 Aug 08 06:38	8° m/42'14 2° m/43'36	2°59'24	evening rise	16297 Jun 03 13.13 16297 Jun 20 04:12	0°Ω	
minimum elong	16296 Aug 08 07:51	2° m/39'31	2°58'53	evening max el	16297 Juli 20 04:12	19° Ω 50'14	20°58'44
min. Earth dist.	16296 Aug 09 07:32	1° m) 19'44	0.67992 AU	asc. node	16297 Jul 06 16:31	20°Ω53'06	20 30 44
min. Burtir dist.	•		***************************************				
	16296 Aug 10 07:47	30° ₹ Ω		retrograde	16297 Jul 14 01:27	24° Ω 42'46	
morning rise	16296 Aug 10 07:47 16296 Aug 13 15:59	30°RΩ 26°Ω17'43		retrograde evening set	16297 Jul 14 01:27 16297 Jul 18 09:08	24° Ω 42'46 22° Ω 58'48	3°07'55
morning rise direct	16296 Aug 10 07:47 16296 Aug 13 15:59 16296 Aug 19 08:35	30°RΩ 26°Ω17'43 23°Ω48'57		retrograde evening set inferior conj	16297 Jul 14 01:27 16297 Jul 18 09:08 16297 Jul 23 14:39	24° Ω42'46 22° Ω58'48 16° Ω49'11	
morning rise	16296 Aug 10 07:47 16296 Aug 13 15:59 16296 Aug 19 08:35 16296 Aug 21 09:31	30°RΩ 26°Ω17'43 23°Ω48'57 24°Ω05'29		retrograde evening set inferior conj minimum elong	16297 Jul 14 01:27 16297 Jul 18 09:08 16297 Jul 23 14:39 16297 Jul 23 14:55	24° Ω42'46 22° Ω58'48 16° Ω49'11 16° Ω48'13	3°07'23
morning rise direct desc. node	16296 Aug 10 07:47 16296 Aug 13 15:59 16296 Aug 19 08:35 16296 Aug 21 09:31 16296 Aug 30 06:01	30°RN 26°N17'43 23°N48'57 24°N05'29 0°M		retrograde evening set inferior conj minimum elong min. Earth dist.	16297 Jul 14 01:27 16297 Jul 18 09:08 16297 Jul 23 14:39 16297 Jul 23 14:55 16297 Jul 24 02:01	24°N42'46 22°N58'48 16°N49'11 16°N48'13 16°N09'46	
morning rise direct	16296 Aug 10 07:47 16296 Aug 13 15:59 16296 Aug 19 08:35 16296 Aug 21 09:31 16296 Aug 30 06:01 16296 Aug 31 02:48	30°RΩ 26°Ω17'43 23°Ω48'57 24°Ω05'29		retrograde evening set inferior conj minimum elong	16297 Jul 14 01:27 16297 Jul 18 09:08 16297 Jul 23 14:39 16297 Jul 23 14:55 16297 Jul 24 02:01 16297 Jul 28 20:26	24° Ω42'46 22° Ω58'48 16° Ω49'11 16° Ω48'13	3°07'23
morning rise direct desc. node	16296 Aug 10 07:47 16296 Aug 13 15:59 16296 Aug 19 08:35 16296 Aug 21 09:31 16296 Aug 30 06:01	30°RN 26°N17'43 23°N48'57 24°N05'29 0°M 0°M51'30		retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	16297 Jul 14 01:27 16297 Jul 18 09:08 16297 Jul 23 14:39 16297 Jul 23 14:55 16297 Jul 24 02:01 16297 Jul 28 20:26 16297 Aug 03 01:16	24° Ω42'46 22° Ω58'48 16° Ω49'11 16° Ω48'13 16° Ω09'46 10° Ω28'02	3°07'23
morning rise direct desc. node morning max el	16296 Aug 10 07:47 16296 Aug 13 15:59 16296 Aug 19 08:35 16296 Aug 21 09:31 16296 Aug 30 06:01 16296 Aug 31 02:48 16296 Sep 22 04:01	30°R		retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	16297 Jul 14 01:27 16297 Jul 18 09:08 16297 Jul 23 14:39 16297 Jul 23 14:55 16297 Jul 24 02:01 16297 Jul 28 20:26	24° Ω42'46 22° Ω58'48 16° Ω49'11 16° Ω48'13 16° Ω09'46 10° Ω28'02 8° Ω12'36	3°07'23
morning rise direct desc. node morning max el morning set	16296 Aug 10 07:47 16296 Aug 13 15:59 16296 Aug 19 08:35 16296 Aug 21 09:31 16296 Aug 30 06:01 16296 Aug 31 02:48 16296 Sep 22 04:01 16296 Oct 05 19:42	30°RA 26°Ω17'43 23°Ω48'57 24°Ω05'29 0°M 0°M51'30 0°Ω 22°Ω26'23	24°49'12	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	16297 Jul 14 01:27 16297 Jul 18 09:08 16297 Jul 23 14:39 16297 Jul 23 14:55 16297 Jul 24 02:01 16297 Jul 28 20:26 16297 Aug 03 01:16 16297 Aug 08 06:48 16297 Aug 13 13:57	24° \(\Omega \) 42'46 22° \(\Omega \) 58'48 16° \(\Omega \) 48'13 16° \(\Omega \) 09'46 10° \(\Omega \) 28'02 8° \(\Omega \) 12'36 10° \(\Omega \) 01'05	3°07'23 0.68823 AU
morning rise direct desc. node morning max el morning set	16296 Aug 10 07:47 16296 Aug 13 15:59 16296 Aug 19 08:35 16296 Aug 21 09:31 16296 Aug 30 06:01 16296 Aug 31 02:48 16296 Sep 22 04:01 16296 Oct 05 19:42 16296 Oct 09 08:24	30°RA 26°Ω17'43 23°Ω48'57 24°Ω05'29 0°M 0°M51'30 0°Ω 22°Ω26'23 28°Ω46'16	24°49'12	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	16297 Jul 14 01:27 16297 Jul 18 09:08 16297 Jul 23 14:39 16297 Jul 23 14:55 16297 Jul 24 02:01 16297 Jul 28 20:26 16297 Aug 03 01:16 16297 Aug 08 06:48	24° \(\Omega \) 42'46 22° \(\Omega \) 58'48 16° \(\Omega \) 49'11 16° \(\Omega \) 48'13 16° \(\Omega \) 09'46 10° \(\Omega \) 28'02 8° \(\Omega \) 12'36 10° \(\Omega \) 00'05 14° \(\Omega \) 28'34	3°07'23 0.68823 AU
morning rise direct desc. node morning max el morning set max. Earth dist.	16296 Aug 10 07:47 16296 Aug 13 15:59 16296 Aug 19 08:35 16296 Aug 21 09:31 16296 Aug 30 06:01 16296 Aug 31 02:48 16296 Sep 22 04:01 16296 Oct 05 19:42 16296 Oct 09 08:24 16296 Oct 10 00:29	30°RA 26°Ω17'43 23°Ω48'57 24°Ω05'29 0°M 0°M51'30 0°Ω 22°Ω26'23 28°Ω46'16 0°M	24°49'12	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	16297 Jul 14 01:27 16297 Jul 18 09:08 16297 Jul 23 14:39 16297 Jul 23 14:55 16297 Jul 24 02:01 16297 Jul 28 20:26 16297 Aug 03 01:16 16297 Aug 08 06:48 16297 Aug 13 13:57 16297 Aug 26 05:28	24° N 42'46 22° N 58'48 16° N 49'11 16° N 48'13 16° N 09'46 10° N 28'02 8° N 12'36 10° N 01'05 14° N 28'34 0° M	3°07'23 0.68823 AU
morning rise direct desc. node morning max el morning set max. Earth dist.	16296 Aug 10 07:47 16296 Aug 13 15:59 16296 Aug 19 08:35 16296 Aug 21 09:31 16296 Aug 30 06:01 16296 Aug 31 02:48 16296 Sep 22 04:01 16296 Oct 05 19:42 16296 Oct 09 08:24 16296 Oct 10 00:29	30°RA 26°Ω17'43 23°Ω48'57 24°Ω05'29 0°M 0°M51'30 0°Ω 22°Ω26'23 28°Ω46'16 0°M	24°49'12	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	16297 Jul 14 01:27 16297 Jul 18 09:08 16297 Jul 23 14:39 16297 Jul 23 14:55 16297 Jul 24 02:01 16297 Jul 28 20:26 16297 Aug 03 01:16 16297 Aug 08 06:48 16297 Aug 13 13:57 16297 Aug 26 05:28 16297 Sep 15 01:49	24° Ω42'46 22° Ω58'48 16° Ω49'11 16° Ω48'13 16° Ω09'46 10° Ω28'02 8° Ω12'36 10° Ω01'05 14° Ω28'34 0° M 0° Ω	3°07'23 0.68823 AU
morning rise direct desc. node morning max el morning set max. Earth dist. asc. node	16296 Aug 10 07:47 16296 Aug 13 15:59 16296 Aug 19 08:35 16296 Aug 21 09:31 16296 Aug 30 06:01 16296 Aug 31 02:48 16296 Oct 05 19:42 16296 Oct 09 08:24 16296 Oct 10 00:29 16296 Oct 15 20:50	30°RA 26°A17'43 23°A48'57 24°A05'29 0°M 0°M51'30 0°A 22°A26'23 28°A46'16 0°M 11°M05'03	24°49'12 1.37195 AU	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	16297 Jul 14 01:27 16297 Jul 18 09:08 16297 Jul 23 14:39 16297 Jul 23 14:55 16297 Jul 24 02:01 16297 Jul 28 20:26 16297 Aug 03 01:16 16297 Aug 08 06:48 16297 Aug 13 13:57 16297 Aug 26 05:28 16297 Sep 15 01:49 16297 Sep 17 04:42	24° \(\Omega \) 42'46 22° \(\Omega \) 58'48 16° \(\Omega \) 49'11 16° \(\Omega \) 48'13 16° \(\Omega \) 09'46 10° \(\Omega \) 28'02 8° \(\Omega \) 12'36 10° \(\Omega \) 01'05 14° \(\Omega \) 28'34 0° \(\Omega \) 0° \(\Omega \) 3° \(\Omega \) 30'27	3°07'23 0.68823 AU 23°20'30
morning rise direct desc. node morning max el morning set max. Earth dist. asc. node superior conj	16296 Aug 10 07:47 16296 Aug 13 15:59 16296 Aug 19 08:35 16296 Aug 21 09:31 16296 Aug 30 06:01 16296 Aug 31 02:48 16296 Sep 22 04:01 16296 Oct 05 19:42 16296 Oct 09 08:24 16296 Oct 10 00:29 16296 Oct 15 20:50	30°RA 26°A17'43 23°A48'57 24°A05'29 0°M 0°M51'30 0°A 22°A26'23 28°A46'16 0°M 11°M05'03	24°49'12 1.37195 AU 0°03'18	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	16297 Jul 14 01:27 16297 Jul 18 09:08 16297 Jul 23 14:39 16297 Jul 23 14:55 16297 Jul 24 02:01 16297 Jul 28 20:26 16297 Aug 03 01:16 16297 Aug 08 06:48 16297 Aug 13 13:57 16297 Aug 26 05:28 16297 Sep 15 01:49 16297 Sep 17 04:42	24° \(\Omega \) 42'46 22° \(\Omega \) 58'48 16° \(\Omega \) 49'11 16° \(\Omega \) 48'13 16° \(\Omega \) 09'46 10° \(\Omega \) 28'02 8° \(\Omega \) 12'36 10° \(\Omega \) 01'05 14° \(\Omega \) 28'34 0° \(\Omega \) 0° \(\Omega \) 3° \(\Omega \) 30'27	3°07'23 0.68823 AU 23°20'30 1.39613 AU
morning rise direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong	16296 Aug 10 07:47 16296 Aug 13 15:59 16296 Aug 19 08:35 16296 Aug 21 09:31 16296 Aug 30 06:01 16296 Aug 31 02:48 16296 Sep 22 04:01 16296 Oct 05 19:42 16296 Oct 09 08:24 16296 Oct 10 00:29 16296 Oct 15 20:50	30°RA 26°A17'43 23°A48'57 24°A05'29 0°M 0°M51'30 0°A 22°A26'23 28°A46'16 0°M 11°M05'03	24°49'12 1.37195 AU 0°03'18	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	16297 Jul 14 01:27 16297 Jul 18 09:08 16297 Jul 23 14:39 16297 Jul 23 14:55 16297 Jul 24 02:01 16297 Jul 28 20:26 16297 Aug 03 01:16 16297 Aug 08 06:48 16297 Aug 13 13:57 16297 Aug 26 05:28 16297 Sep 15 01:49 16297 Sep 17 04:42 16297 Sep 21 07:06	24° \(\Omega \) 42'46 22° \(\Omega \) 58'48 16° \(\Omega \) 49'11 16° \(\Omega \) 48'13 16° \(\Omega \) 09'46 10° \(\Omega \) 28'02 8° \(\Omega \) 12'36 10° \(\Omega \) 01'05 14° \(\Omega \) 28'34 0° \(\omega \) 30'27 10° \(\Omega \) 28'29 24° \(\Omega \) 24'28 24° \(\Omega \) 24'28 24° \(\Omega \) 235'30	3°07'23 0.68823 AU 23°20'30 1.39613 AU -0°31'55
morning rise direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin	16296 Aug 10 07:47 16296 Aug 13 15:59 16296 Aug 19 08:35 16296 Aug 21 09:31 16296 Aug 30 06:01 16296 Aug 31 02:48 16296 Sep 22 04:01 16296 Oct 05 19:42 16296 Oct 09 08:24 16296 Oct 10 00:29 16296 Oct 15 20:50 16296 Oct 16 05:36 16296 Oct 16 05:21 16296 Oct 15 22:54	30°RA 26°A17'43 23°A48'57 24°A05'29 0°M 0°M51'30 0°A 22°A26'23 28°A46'16 0°M 11°M05'03 11°M47'50 11°M47'50 11°M46'40 11°M15'10	24°49'12 1.37195 AU 0°03'18	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	16297 Jul 14 01:27 16297 Jul 18 09:08 16297 Jul 23 14:39 16297 Jul 23 14:55 16297 Jul 24 02:01 16297 Jul 28 20:26 16297 Aug 03 01:16 16297 Aug 08 06:48 16297 Aug 13 13:57 16297 Aug 26 05:28 16297 Sep 15 01:49 16297 Sep 21 07:06	24° \(\Omega \) 42'46 22° \(\Omega \) 58'48 16° \(\Omega \) 49'11 16° \(\Omega \) 48'13 16° \(\Omega \) 09'46 10° \(\Omega \) 28'02 8° \(\Omega \) 12'36 10° \(\Omega \) 00'105 14° \(\Omega \) 28'34 0° \(\omega \) 0° \(\Omega \) 28'29 24° \(\Omega \) 24'28 24° \(\Omega \) 23'5'30 0° \(\omega \)	3°07'23 0.68823 AU 23°20'30 1.39613 AU -0°31'55
morning rise direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end	16296 Aug 10 07:47 16296 Aug 13 15:59 16296 Aug 19 08:35 16296 Aug 21 09:31 16296 Aug 30 06:01 16296 Aug 31 02:48 16296 Sep 22 04:01 16296 Oct 05 19:42 16296 Oct 10 00:29 16296 Oct 10 00:29 16296 Oct 16 05:36 16296 Oct 16 05:21 16296 Oct 15 22:54 16296 Oct 16 11:49	30°RA 26°A17'43 23°A48'57 24°A05'29 0°M 0°M51'30 0°A 22°A26'23 28°A46'16 0°M 11°M05'03 11°M47'50 11°M46'40 11°M15'10 12°M18'15 28°M26'14 0° ✓	24°49'12 1.37195 AU 0°03'18	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	16297 Jul 14 01:27 16297 Jul 18 09:08 16297 Jul 23 14:39 16297 Jul 23 14:55 16297 Jul 24 02:01 16297 Jul 28 20:26 16297 Aug 03 01:16 16297 Aug 08 06:48 16297 Aug 13 13:57 16297 Aug 26 05:28 16297 Sep 15 01:49 16297 Sep 17 04:42 16297 Sep 21 07:06 16297 Sep 29 01:50 16297 Sep 29 04:13 16297 Oct 02 01:30 16297 Oct 02 17:34	24° \(\Omega \) 42'46 22° \(\Omega \) 58'48 16° \(\Omega \) 49'11 16° \(\Omega \) 48'13 16° \(\Omega \) 09'46 10° \(\Omega \) 28'02 8° \(\Omega \) 12'36 10° \(\Omega \) 00'105 14° \(\Omega \) 28'34 0° \(\Omega \) 3° \(\Omega \) 30'27 10° \(\Omega \) 28'29 24° \(\Omega \) 24'28 24° \(\Omega \) 24'28 24° \(\Omega \) 35'30 0° \(\Omega \) 1° \(\Omega \) 16'14	3°07'23 0.68823 AU 23°20'30 1.39613 AU -0°31'55
morning rise direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end	16296 Aug 10 07:47 16296 Aug 13 15:59 16296 Aug 19 08:35 16296 Aug 21 09:31 16296 Aug 30 06:01 16296 Aug 31 02:48 16296 Sep 22 04:01 16296 Oct 05 19:42 16296 Oct 10 00:29 16296 Oct 10 00:29 16296 Oct 16 05:36 16296 Oct 16 05:21 16296 Oct 16 15:21 16296 Oct 16 11:49 16296 Oct 24 13:08	30°R	24°49'12 1.37195 AU 0°03'18	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	16297 Jul 14 01:27 16297 Jul 18 09:08 16297 Jul 23 14:39 16297 Jul 23 14:55 16297 Jul 24 02:01 16297 Jul 28 20:26 16297 Aug 03 01:16 16297 Aug 08 06:48 16297 Aug 13 13:57 16297 Aug 26 05:28 16297 Sep 15 01:49 16297 Sep 17 04:42 16297 Sep 21 07:06 16297 Sep 29 01:50 16297 Sep 29 04:13 16297 Oct 02 01:30	24° \(\Omega \) 42'46 22° \(\Omega \) 58'48 16° \(\Omega \) 49'11 16° \(\Omega \) 48'13 16° \(\Omega \) 09'46 10° \(\Omega \) 28'02 8° \(\Omega \) 12'36 10° \(\Omega \) 01'05 14° \(\Omega \) 28'34 0° \(\omega \) 3° \(\Omega \) 30'27 10° \(\Omega \) 28'29 24° \(\Omega \) 24'28 24° \(\Omega \) 24'28 24° \(\Omega \) 23'30 0° \(\omega \) 1° \(\Omega \) 16'14 12° \(\Omega \) 15'00	3°07'23 0.68823 AU 23°20'30 1.39613 AU -0°31'55
morning rise direct desc. node 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	16296 Aug 10 07:47 16296 Aug 13 15:59 16296 Aug 19 08:35 16296 Aug 21 09:31 16296 Aug 30 06:01 16296 Aug 31 02:48 16296 Sep 22 04:01 16296 Oct 05 19:42 16296 Oct 10 00:29 16296 Oct 10 00:29 16296 Oct 16 05:36 16296 Oct 16 05:21 16296 Oct 16 11:49 16296 Oct 24 13:08 16296 Oct 25 07:47 16296 Nov 10 13:12 16296 Nov 15 05:07	30°RA 26°A17'43 23°A48'57 24°A05'29 0°Mp 0°Mp51'30 0°Ω 22°Ω26'23 28°Ω46'16 0°M 11°M05'03 11°M47'50 11°M46'40 11°M15'10 12°M18'15 28°M26'14 0°ズ 26°ズ26'41 0°ጜ	24°49'12 1.37195 AU 0°03'18 0°03'40	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	16297 Jul 14 01:27 16297 Jul 18 09:08 16297 Jul 23 14:39 16297 Jul 23 14:55 16297 Jul 24 02:01 16297 Jul 28 20:26 16297 Aug 03 01:16 16297 Aug 08 06:48 16297 Aug 13 13:57 16297 Aug 26 05:28 16297 Sep 15 01:49 16297 Sep 17 04:42 16297 Sep 21 07:06 16297 Sep 29 01:50 16297 Sep 29 04:13 16297 Oct 02 01:30 16297 Oct 02 17:34 16297 Oct 08 10:31 16297 Oct 18 04:25	24° \$\alpha 42'46 22° \$\alpha 58'48 16° \$\alpha 49'11 16° \$\alpha 48'13 16° \$\alpha 99'46 10° \$\alpha 28'02 8° \$\alpha 12'36 10° \$\alpha 01'05 14° \$\alpha 28'34 0° \$\mathred{m}\$ 0° \$\mathred{\Omega}\$ 24° \$\mathred{\Omega} 24'28 24° \$\mathred{\Omega} 24'28 24° \$\mathred{\Omega} 35'30 0° \$\mathred{m}\$ 1° \$\mathred{m} 16'14 12° \$\mathred{m} 15'00 0° \$\nalpha\$	3°07'23 0.68823 AU 23°20'30 1.39613 AU -0°31'55 0°31'15
morning rise direct desc. node 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	16296 Aug 10 07:47 16296 Aug 13 15:59 16296 Aug 19 08:35 16296 Aug 21 09:31 16296 Aug 30 06:01 16296 Aug 31 02:48 16296 Sep 22 04:01 16296 Oct 05 19:42 16296 Oct 10 00:29 16296 Oct 15 20:50 16296 Oct 16 05:36 16296 Oct 16 05:21 16296 Oct 16 05:21 16296 Oct 16 11:49 16296 Oct 24 13:08 16296 Oct 25 07:47 16296 Nov 10 13:12 16296 Nov 15 05:07 16296 Nov 17 06:59	30°RA 26°A17'43 23°A48'57 24°A05'29 0°M 0°M51'30 0°A 22°A26'23 28°A46'16 0°M 11°M05'03 11°M47'50 11°M46'40 11°M15'10 12°M18'15 28°M26'14 0°X 26°X26'41 0°S 0°S50'56	24°49'12 1.37195 AU 0°03'18 0°03'40	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	16297 Jul 14 01:27 16297 Jul 18 09:08 16297 Jul 23 14:39 16297 Jul 23 14:55 16297 Jul 24 02:01 16297 Jul 28 20:26 16297 Aug 03 01:16 16297 Aug 08 06:48 16297 Aug 13 13:57 16297 Aug 26 05:28 16297 Sep 15 01:49 16297 Sep 21 07:06 16297 Sep 21 07:06 16297 Sep 29 01:50 16297 Sep 29 04:13 16297 Oct 02 01:30 16297 Oct 02 17:34 16297 Oct 08 10:31 16297 Oct 18 04:25 16297 Oct 18 04:25	24° \$\alpha 42'46 22° \$\alpha 58'48 16° \$\alpha 49'11 16° \$\alpha 48'13 16° \$\alpha 09'46 10° \$\alpha 28'02 8° \$\alpha 12'36 10° \$\alpha 01'05 14° \$\alpha 28'34 0° \$\mathred{m}\$ 0° \$\mathred{\Omega}\$ 3° \$\mathred{\Omega}\$ 30'27 10° \$\mathred{\Omega}\$ 28'29 24° \$\mathred{\Omega}\$ 24'28 24° \$\mathred{\Omega}\$ 35'30 0° \$\mathred{m}\$ 1° \$\mathred{m}\$ 16'14 12° \$\mathred{m}\$ 15'00 0° \$\nalpha\$ 8° \$\nalpha 21'45	3°07'23 0.68823 AU 23°20'30 1.39613 AU -0°31'55
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morning rise direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist.	16296 Aug 10 07:47 16296 Aug 13 15:59 16296 Aug 19 08:35 16296 Aug 21 09:31 16296 Aug 30 06:01 16296 Aug 31 02:48 16296 Sep 22 04:01 16296 Oct 05 19:42 16296 Oct 10 00:29 16296 Oct 15 20:50 16296 Oct 16 05:36 16296 Oct 16 05:21 16296 Oct 16 05:21 16296 Oct 16 11:49 16296 Oct 24 13:08 16296 Oct 25 07:47 16296 Nov 10 13:12 16296 Nov 10 13:12 16296 Nov 10 06:59 16296 Nov 20 05:11 16296 Nov 20 05:11 16296 Nov 20 05:11 16296 Nov 20 05:11 16296 Nov 30 19:03 16296 Nov 30 09:27 16296 Nov 30 09:27	30°RA 26°A17'43 23°A48'57 24°A05'29 0°My 0°My51'30 0°A 22°A26'23 28°A46'16 0°M 11°M47'50 11°M46'40 11°M46'40 11°M15'10 12°M18'15 28°M26'14 0°X' 26°X'26'41 0°X' 26°X'26'41 0°X' 26°X'26'41 0°X' 27°X'00'39 27°X'16'04 25°X'27'13	24°49'12 1.37195 AU 0°03'18 0°03'40 19°30'21	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 retrograde evening set desc. node inferior conj minimum elong min. Earth dist.	16297 Jul 14 01:27 16297 Jul 18 09:08 16297 Jul 23 14:39 16297 Jul 24 02:01 16297 Jul 28 20:26 16297 Aug 03 01:16 16297 Aug 08 06:48 16297 Aug 13 13:57 16297 Aug 26 05:28 16297 Sep 15 01:49 16297 Sep 15 01:49 16297 Sep 21 07:06 16297 Sep 29 01:50 16297 Sep 29 04:13 16297 Oct 02 01:30 16297 Oct 02 17:34 16297 Oct 08 10:31 16297 Oct 18 04:25 16297 Nov 04 04:07 16297 Nov 04 04:07 16297 Nov 01 17:08 16297 Nov 04 04:07 16297 Nov 11 16:24 16297 Nov 11 16:24 16297 Nov 11 10:34 16297 Nov 11 10:34	24° \(\Omega \) 42'46 22° \(\Omega \) 58'48 16° \(\Omega \) 49'11 16° \(\Omega \) 48'13 16° \(\Omega \) 09'46 10° \(\Omega \) 28'02 8° \(\Omega \) 12'36 10° \(\Omega \) 00'105 14° \(\Omega \) 28'34 0° \(\Omega \) 3° \(\Omega \) 30'27 10° \(\Omega \) 28'29 24° \(\Omega \) 24'28 24° \(\Omega \) 28'29 24° \(\Omega \) 24'28 24° \(\Omega \) 23'5'30 0° \(\Omega \) 1° \(\Omega \) 16'14 12° \(\Omega \) 15'00 0° \(\neq \) 8° \(\neq \) 21'45 12° \(\neq \) 31'02 12° \(\neq \) 18'05 12° \(\neq \) 10'09 7° \(\neq \) 52'23 8° \(\neq \) 03'17 5° \(\neq \) 33'32	3°07'23 0.68823 AU 23°20'30 1.39613 AU -0°31'55 0°31'15
morning rise direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	16296 Aug 10 07:47 16296 Aug 13 15:59 16296 Aug 19 08:35 16296 Aug 21 09:31 16296 Aug 30 06:01 16296 Aug 31 02:48 16296 Sep 22 04:01 16296 Oct 05 19:42 16296 Oct 10 00:29 16296 Oct 15 20:50 16296 Oct 16 05:36 16296 Oct 16 05:21 16296 Oct 16 11:49 16296 Oct 16 11:49 16296 Oct 24 13:08 16296 Oct 25 07:47 16296 Nov 10 13:12 16296 Nov 10 13:12 16296 Nov 10 05:91 16296 Nov 20 05:11 16296 Nov 20 05:11 16296 Nov 20 05:11 16296 Nov 30 19:03 16296 Nov 30 09:27 16296 Nov 30 09:27 16296 Dec 03 05:20 16296 Dec 08 12:55	30°RA 26°A17'43 23°A48'57 24°A05'29 0°M 0°M51'30 0°A 22°A26'23 28°A46'16 0°M 11°M45'03 11°M46'40 11°M46'40 11°M15'10 12°M18'15 28°M26'14 0°X 26°X26'41 0°X 26°X26'41 0°X 26°X26'41 0°X 26°X26'41 0°X 26°X26'41 0°X 26°X26'41 0°X 27°X16'03 18'16'53 1°C05'56 30°RX 27°X10'39 27°X16'04 25°X27'13 22°X38'34	24°49'12 1.37195 AU 0°03'18 0°03'40 19°30'21 -4°07'33 4°03'47	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 retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	16297 Jul 14 01:27 16297 Jul 18 09:08 16297 Jul 23 14:39 16297 Jul 24 02:01 16297 Jul 28 20:26 16297 Aug 03 01:16 16297 Aug 08 06:48 16297 Aug 13 13:57 16297 Aug 26 05:28 16297 Sep 15 01:49 16297 Sep 17 04:42 16297 Sep 21 07:06 16297 Sep 29 01:50 16297 Sep 29 04:13 16297 Oct 02 01:30 16297 Oct 02 17:34 16297 Oct 08 10:31 16297 Oct 18 04:25 16297 Oct 18 04:25 16297 Nov 11 17:08 16297 Nov 01 17:08 16297 Nov 01 17:08 16297 Nov 01 17:08 16297 Nov 01 16:24 16297 Nov 11 16:24 16297 Nov 11 10:34 16297 Nov 14 19:09 16297 Nov 19 02:34	24° \(\Omega \) 42'46 22° \(\Omega \) 58'48 16° \(\Omega \) 49'11 16° \(\Omega \) 48'13 16° \(\Omega \) 09'46 10° \(\Omega \) 28'02 8° \(\Omega \) 12'36 10° \(\Omega \) 00' \(\Omega \) 3° \(\Omega \) 30'27 10° \(\Omega \) 28'29 24° \(\Omega \) 24'28 24° \(\Omega \) 24'28 24° \(\Omega \) 24'28 24° \(\Omega \) 23'5'30 0° \(\Omega \) 1° \(\Omega \) 16'14 12° \(\Omega \) 15'00 0° \(\neq \) 8° \(\neq \) 21'45 12° \(\neq \) 18'05 12° \(\neq \) 10'09 7° \(\neq \) 5'2'23 8° \(\neq \) 03'17 5° \(\neq \) 33'32 2° \(\neq \) 5'4'19	3°07'23 0.68823 AU 23°20'30 1.39613 AU -0°31'55 0°31'15 18°39'43
morning rise direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	16296 Aug 10 07:47 16296 Aug 13 15:59 16296 Aug 19 08:35 16296 Aug 21 09:31 16296 Aug 30 06:01 16296 Aug 31 02:48 16296 Sep 22 04:01 16296 Oct 05 19:42 16296 Oct 10 00:29 16296 Oct 15 20:50 16296 Oct 16 05:36 16296 Oct 16 05:21 16296 Oct 16 11:49 16296 Oct 16 11:49 16296 Oct 24 13:08 16296 Oct 25 07:47 16296 Nov 10 13:12 16296 Nov 10 13:12 16296 Nov 10 06:59 16296 Nov 20 05:11 16296 Nov 20 05:11 16296 Nov 20 05:11 16296 Nov 30 19:03 16296 Nov 30 09:27 16296 Nov 30 09:27 16296 Dec 03 05:20 16296 Dec 08 12:55 16296 Dec 18 22:00	30°RA 26°A17'43 23°A48'57 24°A05'29 0°Mp 0°Mp51'30 0°A 22°A26'23 28°A46'16 0°M 11°M47'50 11°M46'40 11°M46'40 11°M15'10 12°M18'15 28°M26'14 0°A 26°A'26'41 0°B 0°B'50'56 1°B'16'53 1°B'05'56 30°RA' 27°A'00'39 27°A'16'04 25°A'27'13 22°A'38'34 21°A'33'33	24°49'12 1.37195 AU 0°03'18 0°03'40 19°30'21 -4°07'33 4°03'47 0.55487 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 retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	16297 Jul 14 01:27 16297 Jul 18 09:08 16297 Jul 23 14:39 16297 Jul 24 02:01 16297 Jul 28 20:26 16297 Aug 03 01:16 16297 Aug 08 06:48 16297 Aug 13 13:57 16297 Aug 26 05:28 16297 Sep 15 01:49 16297 Sep 17 04:42 16297 Sep 29 01:50 16297 Sep 29 04:13 16297 Oct 02 01:30 16297 Oct 02 17:34 16297 Oct 08 10:31 16297 Oct 08 10:31 16297 Oct 18 04:25 16297 Nov 11 10:34 16297 Nov 04 04:07 16297 Nov 14 19:09 16297 Nov 14 19:09 16297 Nov 19 02:34 16297 Nov 19 02:34 16297 Nov 19 02:34 16297 Nov 19 02:34	24° \(\Omega \) 42'46 22° \(\Omega \) 58'48 16° \(\Omega \) 49'11 16° \(\Omega \) 48'13 16° \(\Omega \) 09'46 10° \(\Omega \) 28'02 8° \(\Omega \) 12'36 10° \(\Omega \) 00' \(\Omega \) 3° \(\Omega \) 30'27 10° \(\Omega \) 28'29 24° \(\Omega \) 24'28 24° \(\Omega \) 24'28 24° \(\Omega \) 24'28 24° \(\Omega \) 23'5'30 0° \(\Omega \) 1° \(\Omega \) 16'14 12° \(\Omega \) 15'00 0° \(\neq \) 8° \(\neq \) 21'45 12° \(\neq \) 18'05 12° \(\neq \) 10'09 7° \(\neq \) 52'23 8° \(\neq \) 03'17 5° \(\neq \) 33'32 2° \(\neq \) 54'19 1° \(\neq \) 22'53	3°07'23 0.68823 AU 23°20'30 1.39613 AU -0°31'55 0°31'15 18°39'43 -2°24'40 2°21'46 0.57196 AU
morning rise direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	16296 Aug 10 07:47 16296 Aug 13 15:59 16296 Aug 19 08:35 16296 Aug 21 09:31 16296 Aug 30 06:01 16296 Aug 31 02:48 16296 Sep 22 04:01 16296 Oct 05 19:42 16296 Oct 10 00:29 16296 Oct 15 20:50 16296 Oct 16 05:36 16296 Oct 16 05:21 16296 Oct 16 11:49 16296 Oct 16 11:49 16296 Oct 24 13:08 16296 Oct 25 07:47 16296 Nov 10 13:12 16296 Nov 10 13:12 16296 Nov 10 05:91 16296 Nov 20 05:11 16296 Nov 20 05:11 16296 Nov 20 05:11 16296 Nov 30 19:03 16296 Nov 30 09:27 16296 Nov 30 09:27 16296 Dec 03 05:20 16296 Dec 08 12:55	30°RA 26°A17'43 23°A48'57 24°A05'29 0°M 0°M51'30 0°A 22°A26'23 28°A46'16 0°M 11°M45'03 11°M46'40 11°M46'40 11°M15'10 12°M18'15 28°M26'14 0°X 26°X26'41 0°X 26°X26'41 0°X 26°X26'41 0°X 26°X26'41 0°X 26°X26'41 0°X 26°X26'41 0°X 27°X16'03 18'16'53 1°C05'56 30°RX 27°X10'39 27°X16'04 25°X27'13 22°X38'34	24°49'12 1.37195 AU 0°03'18 0°03'40 19°30'21 -4°07'33 4°03'47 0.55487 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 retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	16297 Jul 14 01:27 16297 Jul 18 09:08 16297 Jul 23 14:39 16297 Jul 24 02:01 16297 Jul 28 20:26 16297 Aug 03 01:16 16297 Aug 08 06:48 16297 Aug 13 13:57 16297 Aug 26 05:28 16297 Sep 15 01:49 16297 Sep 17 04:42 16297 Sep 21 07:06 16297 Sep 29 01:50 16297 Sep 29 04:13 16297 Oct 02 01:30 16297 Oct 02 17:34 16297 Oct 08 10:31 16297 Oct 18 04:25 16297 Oct 18 04:25 16297 Nov 11 17:08 16297 Nov 01 17:08 16297 Nov 01 17:08 16297 Nov 01 17:08 16297 Nov 01 16:24 16297 Nov 11 16:24 16297 Nov 11 10:34 16297 Nov 14 19:09 16297 Nov 19 02:34	24° \(\Omega \) 42'46 22° \(\Omega \) 58'48 16° \(\Omega \) 49'11 16° \(\Omega \) 48'13 16° \(\Omega \) 09'46 10° \(\Omega \) 28'02 8° \(\Omega \) 12'36 10° \(\Omega \) 00' \(\Omega \) 3° \(\Omega \) 30'27 10° \(\Omega \) 28'29 24° \(\Omega \) 24'28 24° \(\Omega \) 24'28 24° \(\Omega \) 24'28 24° \(\Omega \) 23'5'30 0° \(\Omega \) 1° \(\Omega \) 16'14 12° \(\Omega \) 15'00 0° \(\neq \) 8° \(\neq \) 21'45 12° \(\neq \) 18'05 12° \(\neq \) 10'09 7° \(\neq \) 5'2'23 8° \(\neq \) 03'17 5° \(\neq \) 33'32 2° \(\neq \) 5'4'19	3°07'23 0.68823 AU 23°20'30 1.39613 AU -0°31'55 0°31'15 18°39'43 -2°24'40 2°21'46 0.57196 AU

		_				_	
asc. node	16297 Dec 29 17:32	7° る 31'30			16298 Dec 18 05:14	0°ಕ	
morning set	16298 Jan 07 19:43	25° ප් 41'56		morning set	16298 Dec 23 02:26	9° る 59'31	
	16298 Jan 09 19:11	0° ≈		max. Earth dist.	16298 Dec 29 11:44	23° る 59'31	1.30990 AU
	1/200 I 14 14.02	1000 020116	1020111		1/200 D 20 01-20	25° පි 16'20	1925107
superior conj	16298 Jan 14 14:03	10°≈39'16 10°≈39'11	1°38'11 1°38'45	superior conj minimum elong	16298 Dec 30 01:28	25° る 10'20	1°35'06 1°35'42
minimum elong max. Earth dist.	16298 Jan 14 14:02 16298 Jan 15 03:56	10 ≈3911 11°≈56'54	1.31154 AU	minimum elong	16298 Dec 30 00:25 16299 Jan 01 04:07	25 ⊘ 10 30 0° ≈	1 33 42
evening rise	16298 Jan 21 11:50	25°≈48'11	1.31134 AU	evening rise	16299 Jan 05 18:44	0 ≈ 10°≈09'03	
evening rise	16298 Jan 23 12:03	0°) €		evening rise	16299 Jan 15 19:05	0° ∀	
desc. node	16298 Jan 31 03:44	14° ¥ 44'04		desc. node	16299 Jan 18 00:30	3° ¥ 52'31	
dese. Hode	16298 Feb 09 13:49	0°Υ		evening max el	16299 Feb 03 16:11	26° ₩ 08'53	26°22'29
evening max el	16298 Feb 21 16:46	14° Υ 43'52	27°17'10	ovening man er	16299 Feb 08 09:16	0°Υ	20 22 25
retrograde	16298 Mar 07 17:33	22° Y ′04'05		retrograde	16299 Feb 17 15:52	3° Y 17'08	
evening set	16298 Mar 14 10:10	20° Y ′04'59		evening set	16299 Feb 23 22:38	1° Y '42'10	
min. Earth dist.	16298 Mar 18 07:00	17° Ƴ 19'49	0.60336 AU	Ü	16299 Feb 26 21:07	30°₽)	
inferior conj	16298 Mar 21 12:04	14° Y 36'24	-1°57'55	min. Earth dist.	16299 Feb 28 05:29	29°) €04'36	0.58123 AU
minimum elong	16298 Mar 21 16:29	14° Y 27'01	1°56'16	inferior conj	16299 Mar 03 08:24	26°) 47′07	-3°28'50
asc. node	16298 Mar 27 15:04	10° Y 18′59		minimum elong	16299 Mar 03 16:22	26°) 32′27	3°25'55
morning rise	16298 Mar 29 02:15	9° Ƴ 47'11		morning rise	16299 Mar 11 13:28	22°) (19′30	
direct	16298 Mar 31 03:46	9° Y 30'03		direct	16299 Mar 13 12:26	22°) €06'35	
morning max el	16298 Apr 07 09:03	13° Y ′06'37	17°58'36	asc. node	16299 Mar 14 12:23	22°) 10′04	
	16298 Apr 18 19:14	0°8		morning max el	16299 Mar 21 18:26	26°) 10′43	18°30'40
morning set	16298 Apr 22 22:59	7° 8 32'55			16299 Mar 25 01:48	0° Y	
desc. node	16298 Apr 29 04:56	18° 8 56'08		morning set	16299 Apr 06 15:53	21° Y ′36'47	
					16299 Apr 11 00:48	9° 8	
superior conj	16298 May 03 08:01	26° 8 15'45					
minimum elong	16298 May 03 05:08	26° 8 03'05	0°33'40	superior conj	16299 Apr 15 18:36	8° 8 54'42	
	16298 May 05 11:43	0°Щ		minimum elong	16299 Apr 15 18:45	8° 8 55'24	0°02'06
max. Earth dist.	16298 May 10 20:42	9° Ⅱ 03'54	1.42564 AU	behind sun begin	16299 Apr 15 11:40	8° 8 22'40	
evening rise	16298 May 16 13:40	18° Ⅱ 18'32		behind sun end	16299 Apr 16 01:49	9° 8 28'02	
	16298 May 24 02:50	0° ©		desc. node	16299 Apr 16 01:43	9° 8 27'35	1 40415 477
	16298 Jun 14 21:26	0°N	22015111	max. Earth dist.	16299 Apr 23 05:32	22° 8 14'00	1.40415 AU
evening max el	16298 Jun 18 08:31	3°Ω44'50 7°Ω58'39	22°15'11	evening rise	16299 Apr 27 10:30	29° 8 21'13	
asc. node	16298 Jun 23 13:24	9° Ω 21'48			16299 Apr 27 19:51	0° ©	
retrograde	16298 Jun 27 23:11 16298 Jul 02 18:20	7° Ω 21'05		arranina marral	16299 May 17 13:51	17° © 39'27	23°36'33
evening set inferior conj	16298 Jul 08 00:28	1° Ω 01'56	3°05'29	evening max el asc. node	16299 May 31 23:13 16299 Jun 10 10:21	23°\$52'08	23 30 33
minimum elong	16298 Jul 07 23:48	1° Ω 04'15	3°04'49	retrograde	16299 Jun 11 18:25	23° © 59'46	
min. Earth dist.	16298 Jul 07 22:35		0.69163 AU	evening set	16299 Jun 17 01:13	21° 5 3940	
mm. Earth dist.	16298 Jul 08 18:16	30°Rூ	0.07103710	inferior conj	16299 Jun 22 10:11	15°9518'08	2°52'37
morning rise	16298 Jul 13 05:06	24°5947'47		minimum elong	16299 Jun 22 08:42	15°523'13	
direct	16298 Jul 17 21:43	22°5549'44		min. Earth dist.	16299 Jun 21 19:14	16° © 09'27	0.69006 AU
desc. node	16298 Jul 26 04:05	27°9516'34		morning rise	16299 Jun 27 16:11	9° © 12'22	***************************************
morning max el	16298 Jul 27 03:45	28°9513'57	21°53'10	direct	16299 Jul 01 20:43	7° 5 33'44	
C	16298 Jul 28 20:14	$0^{\circ}\Omega$		morning max el	16299 Jul 09 23:02	12° © 09'44	20°34'08
	16298 Aug 19 20:01	0° m		desc. node	16299 Jul 13 01:20	15° © 31'44	
morning set	16298 Aug 28 14:04	13° m 34'33			16299 Jul 23 21:17	0 $^{\circ}\Omega$	
max. Earth dist.	16298 Sep 03 10:24	23° m 04'09	1.41933 AU	morning set	16299 Aug 08 02:30	22° Ω 47′07	
	16298 Sep 07 13:25	0∘ ⊽			16299 Aug 12 17:34	0° ™	
				max. Earth dist.	16299 Aug 16 20:08	6°My31′29	1.43886 AU
superior conj	16298 Sep 11 03:36	6° £ 12'09					
minimum elong	16298 Sep 11 09:15	6° ≏ 36'53	1°08'04	superior conj	16299 Aug 23 06:55	17° m 02'31	
asc. node	16298 Sep 19 14:16	21° ≏ 22'44		minimum elong	16299 Aug 23 14:47	17° TD 35'10	1°42'24
evening rise	16298 Sep 21 21:18	25° Ω 35'45			16299 Aug 30 22:39	0∘ ⊽	
	16298 Sep 24 06:50	0°M		evening rise	16299 Sep 04 16:54	8° Ω 16'42	
evening max el	16298 Oct 07 20:23	20°M58'45	18°10'32	asc. node	16299 Sep 06 10:57	11° Ω 20'35	
retrograde	16298 Oct 15 00:26	24°M38'59		i	16299 Sep 17 22:14	0°M 4°M 07/25	10001100
evening set	16298 Oct 17 03:56	24°M19'46		evening max el	16299 Sep 21 09:52	4°M07'25	19-01.03
desc. node	16298 Oct 22 01:19	21°M34'05	-0°46'40	retrograde	16299 Sep 27 23:26	7°M31'38 7°M02'24	
inferior conj minimum elong	16298 Oct 24 11:33 16298 Oct 24 09:53	19°M32'30 19°M36'08	0°45'30	evening set inferior conj	16299 Sep 30 10:30 16299 Oct 07 01:51	1°M55'43	0°34'37
min. Earth dist.	16298 Oct 24 09:33 16298 Oct 27 17:18	16°M44'05	0.59338 AU	minimum elong	16299 Oct 07 01:51 16299 Oct 07 02:53	1°M53'08	0°34'37 0°34'33
morning rise	16298 Oct 27 17:18 16298 Oct 31 12:28	13°M59'22	0.57550 AU	desc. node	16299 Oct 07 02.33 16299 Oct 08 22:37	0°M03'11	U J T JJ
direct	16298 Nov 07 01:05	13 IIC3922 12°M02'14		dese. Houe	16299 Oct 08 22:57 16299 Oct 08 23:54	ე იცევეე 30°გ ი	
morning max el	16298 Nov 21 07:45	19°M45'14	27°40'36	min. Earth dist.	16299 Oct 10 01:28	28° £ 57'33	0.61632 AU
	16298 Nov 30 02:20	0° ⊼ ¹	-: 1000	morning rise	16299 Oct 13 16:28	25° ⊆ 55'37	
asc. node	16298 Dec 16 14:38	26° ₹ 52'51		direct	16299 Oct 20 08:55	23° ⊆ 37'01	
	= 12 20 100						

	16299 Nov 01 21:52	0°M,		direct	16300 Oct 03 02:30	6° Ω 04'44	
morning max el	16299 Nov 03 12:54	1°M32'48	27°59'16	morning max el	16300 Oct 16 22:28	14° ≙ 03'17	27°40'12
_	16299 Nov 24 09:20	0° ∡			16300 Oct 29 21:13	0° M ₊	
asc. node	16299 Dec 03 11:40	16° ⋌ ³34'57			16300 Nov 16 23:48	0° ∡ 7	
morning set	16299 Dec 07 03:36	23° ∡ ′58′08		asc. node	16300 Nov 20 08:38	6° ⋌ ³31'46	
	16299 Dec 10 00:16	0°ಕ		morning set	16300 Nov 20 20:51	7° ∡ ³32'38	
max. Earth dist.	16299 Dec 12 16:52	5° る 50'38	1.31380 AU	max. Earth dist.	16300 Nov 25 15:34	17° ∡ ²23′01	1.32345 AU
superior conj	16299 Dec 14 11:30	9° る 45'57	1°25'58	superior conj	16300 Nov 28 18:15	24° ∡ 03′23	1°10'40
minimum elong	16299 Dec 14 09:38	9° ට 35'34	1°26'27	minimum elong	16300 Nov 28 15:54	23° ∡ 50'42	1°11'00
evening rise	16299 Dec 21 04:27	24° る 34'59		· ·	16300 Dec 01 11:38	0°₹	
Č	16299 Dec 23 17:28	0° ≈		evening rise	16300 Dec 05 15:15	9° ට 02'14	
desc. node	16300 Jan 04 21:20	22° ≈ 19'37		8	16300 Dec 16 07:33	0° ≈	
***************************************	16300 Jan 10 07:22	0° ∀		desc. node	16300 Dec 22 18:13	9° ≈ 50'38	
evening max el	16300 Jan 16 06:59	6° ¥ 41'37	24°57'34	evening max el	16300 Dec 28 16:39	16° ≈ 41'18	23°15'41
retrograde	16300 Jan 30 02:03	13° ¥ 35'59	2.075.	retrograde	16301 Jan 10 22:49	23° ≈ 14'40	25 15 11
evening set	16300 Feb 04 13:53	12° ¥ 28'38		evening set	16301 Jan 15 06:51	22° ≈ 34'00	
min. Earth dist.	16300 Feb 09 19:15	9°\(\frac{12}{42'52}\)	0.56197 AU	min. Earth dist.	16301 Jan 22 03:15	19° ≈ 21'24	0.54865 AU
inferior conj	16300 Feb 12 07:39	8° ∺ 06'22		inferior conj	16301 Jan 23 11:02	13°≈35'36	
minimum elong	16300 Feb 12 17:01	7° ¥ 51′22		minimum elong	16301 Jan 23 15:57	18°≈28'31	
•		3° ¥ 59'52	4 32 16	•	16301 Feb 01 02:22	16 ≈26 31 14°≈44'07	3 31 33
morning rise	16300 Feb 20 22:42 16300 Feb 23 01:41	3°) € 47'15		morning rise			
direct				direct	16301 Feb 03 20:13	14°≈26'08	20041140
asc. node	16300 Mar 01 09:45	5°) (47'57	10024126	morning max el	16301 Feb 15 02:38	19°≈53'14	20°41'48
morning max el	16300 Mar 04 17:35	8°) €29'38	19°24'36	asc. node	16301 Feb 16 07:05	21°≈05'25	
	16300 Mar 18 16:17	0°Υ ••••••••			16301 Feb 23 00:15	0°) {	
morning set	16300 Mar 21 17:40	6° Y ′02′20		morning set	16301 Mar 06 01:11	20°) (40'33	
					16301 Mar 10 12:49	0° Υ	
superior conj	16300 Mar 29 21:36	22° Y 16′59	0°33'50			••	
minimum elong	16300 Mar 29 23:31	22° Y ′26′16	0°33'18	superior conj	16301 Mar 13 12:53	6° Y 11′06	
desc. node	16300 Apr 02 22:27	29° Y ′59′23		minimum elong	16301 Mar 13 15:24	6° Y °23'57	0°58'46
	16300 Apr 02 22:35	0° 8		max. Earth dist.	16301 Mar 18 19:09	16° Ƴ 38'52	1.35908 AU
max. Earth dist.	16300 Apr 05 11:24	4° 8 40'42	1.38112 AU	desc. node	16301 Mar 20 19:08	20° Y ′28′01	
evening rise	16300 Apr 09 04:14	11° 8 17'04		evening rise	16301 Mar 22 16:12	23° Y ′58'07	
	16300 Apr 20 13:17	Π °0			16301 Mar 26 00:25	0°8	
	16300 May 12 23:41	0 \circ			16301 Apr 14 04:25	Π °0	
evening max el	16300 May 14 12:36	1° © 34'14	24°56'26	evening max el	16301 Apr 27 02:14	15° Ⅲ 26′04	26°07'24
retrograde	16300 May 26 10:01	8° © 30'09		retrograde	16301 May 09 20:50	22° Ⅱ 45'21	
asc. node	16300 May 28 07:25	8° © 15'14		asc. node	16301 May 15 04:33	20° Ⅱ 53'49	
evening set	16300 Jun 01 04:09	6° ॐ 04'19		evening set	16301 May 16 01:20	20° Ⅱ 13'40	
min. Earth dist.	16300 Jun 05 13:55	1° 5 06'14	0.68358 AU	min. Earth dist.	16301 May 20 04:32	15° Ⅱ 51′29	0.67249 AU
	16300 Jun 06 09:59	30° Ŗ Ⅱ		inferior conj	16301 May 21 21:33	13° Ⅱ 43'54	1°54'21
inferior conj	16300 Jun 06 17:54	29° Ⅱ 33'47	2°29'10	minimum elong	16301 May 21 19:22	13° Ⅱ 50'40	1°53'04
minimum elong	16300 Jun 06 15:52	29° Ⅱ 40′32	2°28'01	morning rise	16301 May 27 14:11	7° Ⅱ 58'27	
morning rise	16300 Jun 12 03:51	23° Ⅲ 37'32		direct	16301 May 30 20:37	6° Ⅱ 57'46	
direct	16300 Jun 15 20:54	22° Ⅱ 18′29		morning max el	16301 Jun 06 10:32	10° Ⅱ 28'34	18°37'43
morning max el	16300 Jun 23 01:21	26° Ⅱ 15'49	19°28'07	desc. node	16301 Jun 16 19:36	24° Ⅲ 02'07	
	16300 Jun 26 10:29	0°©			16301 Jun 20 17:31	0 \circ \odot	
desc. node	16300 Jun 29 22:31	4° © 30'56		morning set	16301 Jun 27 22:44	11° © 14'33	
greatest brilliancy	16300 Jul 05 17:37	12° 5 45'01	-0.7m		16301 Jul 09 23:08	0 ° Ω	
	16300 Jul 17 04:00	$0^{\circ}\Omega$					
morning set	16300 Jul 18 06:48	1° Ω 42'46		superior conj	16301 Jul 13 23:08	6° Ω 14'06	-2°14'07
max. Earth dist.	16300 Jul 30 11:23	20° Ω 38′05	1.45267 AU	minimum elong	16301 Jul 13 22:00	6° Ω 09'41	2°14'43
				max. Earth dist.	16301 Jul 13 06:29	5° Ω 09'13	1.45956 AU
superior conj	16300 Aug 03 11:12	26° Ω 56′56	-2°07'08		16301 Jul 29 01:55	0° m)	
minimum elong	16300 Aug 03 17:08	27° Ω 20′32	2°07'16	evening rise	16301 Jul 29 14:15	0° m 48'58	
-	16300 Aug 05 09:05	o∘ m y		greatest brilliancy	16301 Aug 05 17:01	12° m 05'52	-0.9m
evening rise	16300 Aug 17 16:00	20° m 04'36		asc. node	16301 Aug 11 04:23	20° m/31'51	
-	16300 Aug 23 15:38	0∘ <u>⊽</u>			16301 Aug 18 06:01	0∘ <u>⊽</u>	
asc. node	16300 Aug 24 07:40	1° ჲ 05'39		evening max el	16301 Aug 19 14:06	1° ≏ 24'27	18°37'00
evening max el	16300 Sep 05 00:52	17° ≏ 39'00	18°10'16	retrograde	16301 Aug 26 02:47	4° Ω 55'40	
retrograde	16300 Sep 11 09:32	21° ♀ 00'15		evening set	16301 Aug 29 07:50	3° ჲ 57'07	
evening set	16300 Sep 14 05:16	20° ≏ 17'38		Č	16301 Sep 02 14:25	30°R, M)	
inferior conj	16300 Sep 20 07:20	14° £ 54'08	1°36'31	inferior conj	16301 Sep 04 00:03	28° m) 18'47	2°20'31
minimum elong	16300 Sep 20 09:31	14° Ω 48'01	1°35'56	minimum elong	16301 Sep 04 02:18	28° m/11'52	
min. Earth dist.	16300 Sep 22 19:44	12° ഫ 05'31	0.63834 AU	min. Earth dist.	16301 Sep 05 22:55	25° m 55'23	0.65765 AU
desc. node	16300 Sep 25 19:57	9° ഫ 09'18	-	morning rise	16301 Sep 09 19:38	21° m 53'44	-
morning rise	16300 Sep 26 11:50	8° ₽ 37'12		desc. node	16301 Sep 12 17:18	20° m) 01'37	
<i>U</i> -	1				1	3 - 1	

direct	16301 Sep 16 04:03	19° m) 16'27		min. Earth dist.	16302 Aug 20 09:34	10° m 15'55	0.67309 AU
morning max el	16301 Sep 29 09:43	27° m 04'24	26°50'00	morning rise	16302 Aug 24 13:15	5° m/36'31	
	16301 Oct 02 03:46	0∘ ⊽		direct	16302 Aug 30 12:10	3° m 02'49	
	16301 Oct 23 12:48	0°M₊		desc. node	16302 Aug 30 14:38	3° Mp 02'52	
morning set	16301 Nov 04 03:15	20°M35'53		morning max el	16302 Sep 11 21:01	10° m 25'31	25°37'26
asc. node	16301 Nov 07 05:30	26° MJ $37'42$			16302 Sep 27 11:01	0∘ ⊽	
max. Earth dist.	16301 Nov 08 05:02	28° MJ $35'08$	1.33870 AU		16302 Oct 16 03:12	0°M₊	
	16301 Nov 08 21:52	0° ∡ ¹		morning set	16302 Oct 17 19:15	3°ML00'12	
				max. Earth dist.	16302 Oct 21 09:28	9° M 39'54	1.35883 AU
superior conj	16301 Nov 12 19:21	8° ∡ 02'17	0°49'10	asc. node	16302 Oct 25 02:19	16°M48'39	
minimum elong	16301 Nov 12 17:08	7° ∡ ¹50'39	0°49'23				
evening rise	16301 Nov 20 01:14	23° ∡ ¹26′03		superior conj	16302 Oct 27 12:02	21°M35'51	0°21'38
	16301 Nov 23 04:59	0°ප		minimum elong	16302 Oct 27 10:46	21°M29'31	0°21'54
desc. node	16301 Dec 09 15:11	26° පි 06'03			16302 Oct 31 14:53	0° ∡ ¹	
evening max el	16301 Dec 10 05:42	26° ප් 42'35	21°34'52	evening rise	16302 Nov 04 08:22	7° ∡ ¹41'34	
	16301 Dec 14 05:20	0° ≈			16302 Nov 16 10:32	0° ろ	
retrograde	16301 Dec 22 09:17	2° ≈ 42'48		evening max el	16302 Nov 22 06:39	7° る 18'57	20°09'32
evening set	16301 Dec 25 11:03	2°≈21'21		desc. node	16302 Nov 26 12:13	10°る42'17	
	16301 Dec 31 09:53	30°Rる	5056105	retrograde	16302 Dec 02 21:02	12°る35'49	
inferior conj	16302 Jan 03 02:34	28° る 31'33		evening set	16302 Dec 05 01:36	12°る23'20	4050122
minimum elong	16302 Jan 02 22:12	28° る 37'40	5°55'06	inferior conj	16302 Dec 13 20:23	8°る26'28	
min. Earth dist.	16302 Jan 03 08:31	28°る23'14	0.54374 AU	minimum elong	16302 Dec 13 10:32	8°る41'12	
morning rise	16302 Jan 11 09:52	24° る 42'58		min. Earth dist.	16302 Dec 15 14:23	7°る23'43	0.54826 AU
direct	16302 Jan 15 04:31	24°る11'54 0°≈		morning rise	16302 Dec 21 18:42 16302 Dec 26 14:58	4°る21'57 3°る31'06	
	16302 Jan 27 11:44	0°≈21'23	22020117	direct		10°る15'03	24910115
morning max el asc. node	16302 Jan 27 20:48 16302 Feb 03 04:23	0°≈21°23 7°≈44'53	22°20'16	morning max el asc. node	16303 Jan 09 05:56 16303 Jan 21 01:38	10 ⁻ る 13 03 25° る 27'31	24°10'15
asc. node	16302 Feb	/ ∞44 33		asc. node	16303 Jan 23 18:42	23 3 2/31 0° ≈	
morning set	16302 Feb 18 11:59	5° ¥ 24'32		morning set	16303 Feb 02 23:58	0 ≈ 20°≈07'28	
morning set	10302100 16 11.39	J / (2432		morning set	16303 Feb 02 23:38 16303 Feb 07 12:40	20 ≈ 07 28	
superior conj	16302 Feb 25 12:59	20°) 27'40	1°18'07		10303 FC0 07 12.40	0 /	
minimum elong	16302 Feb 25 15:18	20° X 39'53	1°18'02	superior conj	16303 Feb 09 19:02	4° ¥ 57'51	1°30'45
max. Earth dist.	16302 Mar 01 09:17	28°\(\frac{1}{28}\)'58	1.33994 AU	minimum elong	16303 Feb 09 20:37	5°\(\frac{1}{29}\)	1°31'00
max. Earth dist.	16302 Mar 02 03:09	0°Υ	1.55774 110	max. Earth dist.	16303 Feb 12 07:02	10° ¥ 22'43	1.32496 AU
evening rise	16302 Mar 05 18:50	7° Υ 14'44		evening rise	16303 Feb 17 08:43	20° H 57'16	1.52470710
desc. node	16302 Mar 07 15:48	10° Y 49'37		evening rise	16303 Feb 21 23:54	0°Υ	
dese. node	16302 Mar 18 15:36	0°8		desc. node	16303 Feb 22 12:28	0° Υ 58'55	
evening max el	16302 Apr 09 16:07	29° 8 07'14	27°01'47		16303 Mar 12 13:51	0°8	
	16302 Apr 10 14:20	0°II		evening max el	16303 Mar 23 04:50	12° 8 25'02	27°32'18
retrograde	16302 Apr 23 01:42	6° Ⅱ 37'36		retrograde	16303 Apr 05 23:45	19° 8 56'57	
evening set	16302 Apr 29 14:49	4° Ⅱ 05'53		evening set	16303 Apr 12 18:18	17° 8 31'51	
asc. node	16302 May 02 01:44	1° Ⅱ 52'01		min. Earth dist.	16303 Apr 16 13:05	14° 8 13'35	0.63814 AU
min. Earth dist.	16302 May 03 12:55	0° Ⅱ 17'30	0.65717 AU	asc. node	16303 Apr 18 22:58	11° 8 44'05	
	16302 May 03 19:09	30° ₹ 8		inferior conj	16303 Apr 19 06:47	11° 8 23'41	0°06'09
inferior conj	16302 May 05 18:47	27° 8 43'09	1°07'06	minimum elong	16303 Apr 19 06:37	11° 8 24'08	0°05'41
minimum elong	16302 May 05 17:08	27° 8 47'53	1°05'58	transit middle	16303 Apr 19 06:37	11° 8 24'08	0°05'41
morning rise	16302 May 11 20:58	22° 8 10'18		transit begin	16303 Apr 19 03:41	11° 8 31'46	
direct	16302 May 14 17:42	21° 8 25'49		transit end	16303 Apr 19 09:33	11° 8 16'31	
morning max el	16302 May 21 01:04	24° 8 42'42	18°04'07	morning rise	16303 Apr 25 21:20	6° 8 05'51	
	16302 May 25 12:34	Π $^{\circ}0$		direct	16303 Apr 28 09:23	5° 8 34'42	
desc. node	16302 Jun 03 16:35	13° Ⅱ 56'52		morning max el	16303 May 04 18:27	8° 8 49'57	17°47'47
morning set	16302 Jun 08 15:57	22° Ⅱ 00'01			16303 May 19 03:03	Π $^{\circ}0$	
	16302 Jun 13 14:45	0ಂತಾ		morning set	16303 May 21 11:51	4° Ⅱ 01'04	
				desc. node	16303 May 21 13:30	4° Ⅱ 08'03	
superior conj	16302 Jun 23 09:53	15°934'08			16202 1 00 11 2	250 112	1022114
minimum elong	16302 Jun 23 02:21	15°504'32		superior conj	16303 Jun 03 11:25	25° Ⅱ 37'51	
max. Earth dist.	16302 Jun 26 03:12		1.45895 AU	minimum elong	16303 Jun 03 03:15	25° Ⅱ 04'43	1~31'58
	16302 Jul 02 16:08	0° Ω		F d C	16303 Jun 06 04:33	0°©	1 45001 411
evening rise	16302 Jul 09 13:12	10° Ω 37'16	0.7m	max. Earth dist.	16303 Jun 08 22:41	4°923'03	1.45091 AU
greatest brilliancy	16302 Jul 22 00:49 16302 Jul 22 06:49	29° Ω 37'44 0° m	-0.7m	evening rise	16303 Jun 18 23:56 16303 Jun 25 14:11	20° © 00'38 0° Ω	
asa nada		•		asa nada			
asc. node evening max el	16302 Jul 29 01:08 16302 Aug 02 23:03	9° Mp 32'22 15° Mp 16'50	19°20'26	asc. node evening max el	16303 Jul 15 21:55 16303 Jul 17 02:07	27° Ω 58'04 29° Ω 11'10	20°19'08
retrograde	16302 Aug 02 23:03 16302 Aug 10 00:06	19° M) 11'03	17 40 40	evening max ei	16303 Jul 17 02:07 16303 Jul 17 22:25	0° m	20 1700
evening set	16302 Aug 10 00:06 16302 Aug 13 15:03	19° mp 54'58		retrograde	16303 Jul 17 22:25 16303 Jul 24 23:08	0°10y 3°10y40'08	
inferior conj	16302 Aug 13 15:03 16302 Aug 19 00:46	17° mp 03'18	2°49'04	evening set	16303 Jul 24 23:08 16303 Jul 29 00:33	2° Mp 06'07	
minimum elong	16302 Aug 19 00:40	12 my 03 18 11° my 57'45	2°48'30	evening set	16303 Jul 29 00.33	2 11,000 07 30°RΩ	
minimum clong	103027148 17 02.27	בדו קאו בב	2 10 30		10505 Jul 51 07.50	20 1/06	

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inferior conj	16303 Aug 03 06:47	26° Ω 02′26	3°04'25	retrograde	16304 Jul 07 21:52	18° Ω 16′58	
minimum elong	16303 Aug 03 07:36	25° Ω 59'37	3°03'54	evening set	16304 Jul 12 10:20	16° Ω 25'39	
min. Earth dist.	16303 Aug 04 01:47	24° Ω 57′26	0.68401 AU	inferior conj	16304 Jul 17 15:48	10° £ 11′30	3°08'11
morning rise	16303 Aug 08 14:20	19° Ω 38'19		minimum elong	16304 Jul 17 15:40	10° Ω 11'57	3°07'37
direct	16303 Aug 14 01:56	17° Ω 14'56		min. Earth dist.	16304 Jul 17 21:28	9° Ω 51'44	0.69020 AU
desc. node	16303 Aug 17 11:58	18° Ω 01'23		morning rise	16304 Jul 22 20:47	3° £ 52'56	
morning max el	16303 Aug 25 08:06	23° Ω 58'44	24°11'58	direct	16304 Jul 27 20:18	1° Ω 44'41	
morning max er	16303 Aug 30 17:13	0° m)	21 1130	desc. node	16304 Aug 03 09:17	4° £ 33′28	
	16303 Sep 20 20:18	0° م		morning max el	16304 Aug 06 20:08	$7^{\circ}\Omega_{39'28}$	22042145
. ,	*			morning max er	-		22 42 43
morning set	16303 Sep 29 16:48	14° Ω 36'46	1 20212 411		16304 Aug 24 06:13	0° m/y	
max. Earth dist.	16303 Oct 03 08:45		1.38213 AU	morning set	16304 Sep 09 15:54	25° m 15'36	
	16303 Oct 08 06:31	0° M			16304 Sep 12 12:45	0∘ ⊽	
				max. Earth dist.	16304 Sep 14 08:32	3° ჲ 04'11	1.40618 AU
superior conj	16303 Oct 10 16:54	4° ™ 36′05	-0°11'12				
minimum elong	16303 Oct 10 17:39	4°M39'40	0°10'44	superior conj	16304 Sep 22 05:46	16° ≏ 52'32	-0°47'36
behind sun begin	16303 Oct 10 12:26	4° ጤ 14'45		minimum elong	16304 Sep 22 09:31	17° ≏ 09'31	0°46'51
behind sun end	16303 Oct 10 22:52	5° M ₊04'37		asc. node	16304 Sep 27 19:45	27° ₽ 10′21	
asc. node	16303 Oct 11 23:03	7° M ₊00'58			16304 Sep 29 07:48	0° M	
evening rise	16303 Oct 19 10:12	21°M42'49		evening rise	16304 Oct 02 03:33	5°M20'43	
evening rise	16303 Oct 23 16:08	0° √		evening rise	16304 Oct 17 02:51	0° √	
evening max el	16303 Nov 04 22:10		10007105			1° × 700'01	18°24'52
Č		18° ₹ 46'01	19°06'05	evening max el	16304 Oct 18 01:35		18 24 32
desc. node	16303 Nov 13 09:20	23° ∡ 17'17		retrograde	16304 Oct 25 18:54	4° ₹ 755'32	
retrograde	16303 Nov 13 22:33	23° ∡ 18'15		evening set	16304 Oct 27 18:47	4° ∡ ¹40'32	
evening set	16303 Nov 15 19:54	23° ∡ 07'07		desc. node	16304 Oct 30 06:32	3° ҂ 43'13	
inferior conj	16303 Nov 24 05:47	18° ∡ ′53′21	-3°24'41	inferior conj	16304 Nov 04 12:32	0° ≯ 05'53	-1°41'35
minimum elong	16303 Nov 23 21:29	19° ∡ '07'32	3°21'03	minimum elong	16304 Nov 04 08:35	0° ҂ 13'47	1°39'25
min. Earth dist.	16303 Nov 27 00:41	16° ∡ ¹59'17	0.56134 AU		16304 Nov 04 15:28	30°RM₊	
morning rise	16303 Dec 01 20:28	14° ∡ 16′18		min. Earth dist.	16304 Nov 07 18:05	27°MJ31'53	0.58064 AU
direct	16303 Dec 07 13:24	13° ∡ ¹00'34		morning rise	16304 Nov 11 18:54	24°ML51'57	
morning max el	16303 Dec 21 15:56	20° х 12′26	25°53'36	direct	16304 Nov 18 02:25	23°ML09'03	
morning mun vi	16303 Dec 30 01:01	0°る	20 0000	4.1.000	16304 Dec 01 14:49	0° ⊼ ¹	
asc. node	16304 Jan 07 22:48	0 3 13° る 57'53		morning max el	16304 Dec 02 08:53		27°11'49
asc. node				morning max ci		0 x 42 30 0°る	27 11 49
	16304 Jan 16 05:47	0° ≈			16304 Dec 23 04:06		
morning set	16304 Jan 18 11:20	4° ≈ 44'29		asc. node	16304 Dec 24 19:56	3° ට 03'03	
				morning set	16305 Jan 01 20:15	19° ට 10'08	
superior conj	16304 Jan 25 04:45	19° ≈ 35'28	1°37'13		16305 Jan 06 18:41	0° ≈	
minimum elong	16304 Jan 25 05:21	19° ≈ 38'47	1°37'42				
max. Earth dist.	16304 Jan 26 11:00	22° ≈ 23'19	1.31492 AU	superior conj	16305 Jan 08 16:05	4° ≈ 14'09	1°37'38
	16304 Jan 29 22:36	0° ∀		minimum elong	16305 Jan 08 15:37	4° ≈ 11'34	1°38'13
evening rise	16304 Feb 01 07:03	4° ¥ 59'14		max. Earth dist.	16305 Jan 08 18:13	4°≈26′03	1.31014 AU
desc. node	16304 Feb 09 09:11	20° ¥ 50'36		evening rise	16305 Jan 15 11:25	19° ≈ 14'22	
	16304 Feb 14 15:33	$0^{\circ}\mathbf{Y}$		Č	16305 Jan 20 17:10	0°) €	
evening max el	16304 Mar 04 14:15	25°Υ06'58	27°32'26	desc. node	16305 Jan 26 05:57	10° ¥ 17'16	
evening max er	16304 Mar 10 17:45	0°8	27 3220	dese. Hode	16305 Feb 08 08:42	0°Υ	
retrograde	16304 Mar 18 14:03	2° 8 33'36		evening max el	16305 Feb 14 18:02	7° Υ 02'14	26°58'04
•		0° 8 22'39		Č	16305 Feb 28 19:08	14° Υ 18'27	20 38 04
evening set	16304 Mar 25 09:11	_		retrograde			
	16304 Mar 25 22:57	30°₹ Υ	0.61645.477	evening set	16305 Mar 07 08:22	12° Y 29'01	0.50054.477
min. Earth dist.	16304 Mar 29 03:42	27° Y ′28′05	0.61645 AU	min. Earth dist.			0.59374 AU
inferior conj					16305 Mar 11 08:13	9° Y 48'32	
	16304 Apr 01 06:18	24° Y 37'08		inferior conj	16305 Mar 14 13:38	7° Ƴ 13'50	-2°36'01
minimum elong	16304 Apr 01 08:44	24° Y 31'33	-1°08'56 1°08'10	inferior conj minimum elong		7° Υ 13'50 7° Υ 01'52	-2°36'01
minimum elong asc. node				inferior conj	16305 Mar 14 13:38	7° Ƴ 13'50	-2°36'01
_	16304 Apr 01 08:44	24° Y 31'33		inferior conj minimum elong	16305 Mar 14 13:38 16305 Mar 14 19:36	7° Υ 13'50 7° Υ 01'52	-2°36'01
asc. node	16304 Apr 01 08:44 16304 Apr 04 20:14	24° Y 31'33 21° Y 34'48		inferior conj minimum elong morning rise	16305 Mar 14 13:38 16305 Mar 14 19:36 16305 Mar 22 10:27	7° Υ 13'50 7° Υ 01'52 2° Υ 33'47	-2°36'01
asc. node morning rise direct	16304 Apr 01 08:44 16304 Apr 04 20:14 16304 Apr 08 11:33	24° Y 31'33 21° Y 34'48 19° Y 37'00 19° Y 15'52		inferior conj minimum elong morning rise asc. node direct	16305 Mar 14 13:38 16305 Mar 14 19:36 16305 Mar 22 10:27 16305 Mar 22 17:33 16305 Mar 24 10:08	7°Υ13'50 7°Υ01'52 2°Υ33'47 2°Υ29'45	-2°36'01
asc. node morning rise	16304 Apr 01 08:44 16304 Apr 04 20:14 16304 Apr 08 11:33 16304 Apr 10 16:12 16304 Apr 17 11:36	24°Y31'33 21°Y34'48 19°Y37'00 19°Y15'52 22°Y41'18	1°08'10	inferior conj minimum elong morning rise asc. node	16305 Mar 14 13:38 16305 Mar 14 19:36 16305 Mar 22 10:27 16305 Mar 22 17:33 16305 Mar 24 10:08 16305 Apr 01 00:59	7°Y13'50 7°Y01'52 2°Y33'47 2°Y29'45 2°Y19'01 6°Y06'14	-2°36'01 2°33'44
asc. node morning rise direct morning max el	16304 Apr 01 08:44 16304 Apr 04 20:14 16304 Apr 08 11:33 16304 Apr 10 16:12 16304 Apr 17 11:36 16304 Apr 23 05:25	24°Y31'33 21°Y34'48 19°Y37'00 19°Y15'52 22°Y41'18 0°8	1°08'10	inferior conj minimum elong morning rise asc. node direct morning max el	16305 Mar 14 13:38 16305 Mar 14 19:36 16305 Mar 22 10:27 16305 Mar 22 17:33 16305 Mar 24 10:08 16305 Apr 01 00:59 16305 Apr 16 05:12	7°Y13'50 7°Y01'52 2°Y33'47 2°Y29'45 2°Y19'01 6°Y06'14 0°8	-2°36'01 2°33'44
asc. node morning rise direct morning max el morning set	16304 Apr 01 08:44 16304 Apr 04 20:14 16304 Apr 08 11:33 16304 Apr 10 16:12 16304 Apr 17 11:36 16304 Apr 23 05:25 16304 May 03 05:42	24°Y31'33 21°Y34'48 19°Y37'00 19°Y15'52 22°Y41'18 0°8 17°8'03'05	1°08'10	inferior conj minimum elong morning rise asc. node direct morning max el	16305 Mar 14 13:38 16305 Mar 14 19:36 16305 Mar 22 10:27 16305 Mar 22 17:33 16305 Mar 24 10:08 16305 Apr 01 00:59 16305 Apr 16 05:12 16305 Apr 16 15:43	7°Y13'50 7°Y01'52 2°Y33'47 2°Y29'45 2°Y19'01 6°Y06'14 0°8 0°849'08	-2°36'01 2°33'44
asc. node morning rise direct morning max el	16304 Apr 01 08:44 16304 Apr 04 20:14 16304 Apr 08 11:33 16304 Apr 10 16:12 16304 Apr 17 11:36 16304 Apr 23 05:25 16304 May 03 05:42 16304 May 07 10:21	24°Y31'33 21°Y34'48 19°Y37'00 19°Y15'52 22°Y41'18 0°8 17°8'03'05 24°8'30'33	1°08'10	inferior conj minimum elong morning rise asc. node direct morning max el	16305 Mar 14 13:38 16305 Mar 14 19:36 16305 Mar 22 10:27 16305 Mar 22 17:33 16305 Mar 24 10:08 16305 Apr 01 00:59 16305 Apr 16 05:12	7°Y13'50 7°Y01'52 2°Y33'47 2°Y29'45 2°Y19'01 6°Y06'14 0°8	-2°36'01 2°33'44
asc. node morning rise direct morning max el morning set	16304 Apr 01 08:44 16304 Apr 04 20:14 16304 Apr 08 11:33 16304 Apr 10 16:12 16304 Apr 17 11:36 16304 Apr 23 05:25 16304 May 03 05:42	24°Y31'33 21°Y34'48 19°Y37'00 19°Y15'52 22°Y41'18 0°8 17°8'03'05	1°08'10	inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node	16305 Mar 14 13:38 16305 Mar 14 19:36 16305 Mar 22 10:27 16305 Mar 22 17:33 16305 Mar 24 10:08 16305 Apr 01 00:59 16305 Apr 16 05:12 16305 Apr 16 15:43 16305 Apr 24 07:11	7°Y13'50 7°Y01'52 2°Y33'47 2°Y29'45 2°Y19'01 6°Y06'14 0°8 0°849'08 15°800'04	-2°36'01 2°33'44 18°09'40
asc. node morning rise direct morning max el morning set desc. node	16304 Apr 01 08:44 16304 Apr 04 20:14 16304 Apr 08 11:33 16304 Apr 10 16:12 16304 Apr 17 11:36 16304 Apr 23 05:25 16304 May 03 05:42 16304 May 07 10:21 16304 May 10 13:30	24°Y31'33 21°Y34'48 19°Y37'00 19°Y15'52 22°Y41'18 0°8 17°8'03'05 24°8'30'33 0°II	1°08'10 17°49'15	inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj	16305 Mar 14 13:38 16305 Mar 14 19:36 16305 Mar 22 10:27 16305 Mar 22 17:33 16305 Mar 24 10:08 16305 Apr 01 00:59 16305 Apr 16 05:12 16305 Apr 16 15:43 16305 Apr 24 07:11	7°Y13'50 7°Y01'52 2°Y33'47 2°Y29'45 2°Y19'01 6°Y06'14 0°8 0°849'08 15°800'04	-2°36'01 2°33'44 18°09'40
asc. node morning rise direct morning max el morning set desc. node	16304 Apr 01 08:44 16304 Apr 04 20:14 16304 Apr 08 11:33 16304 Apr 10 16:12 16304 Apr 17 11:36 16304 Apr 23 05:25 16304 May 03 05:42 16304 May 07 10:21 16304 May 10 13:30	24°Y31'33 21°Y34'48 19°Y37'00 19°Y15'52 22°Y41'18 0°8 17°8'03'05 24°8'30'33 0°II	1°08'10 17°49'15 -0°55'30	inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node	16305 Mar 14 13:38 16305 Mar 14 19:36 16305 Mar 22 10:27 16305 Mar 22 17:33 16305 Mar 24 10:08 16305 Apr 01 00:59 16305 Apr 16 05:12 16305 Apr 16 15:43 16305 Apr 24 07:11	7°Y13'50 7°Y01'52 2°Y33'47 2°Y29'45 2°Y19'01 6°Y06'14 0°8 0°849'08 15°800'04 18°853'32 18°847'00	-2°36'01 2°33'44 18°09'40
asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	16304 Apr 01 08:44 16304 Apr 04 20:14 16304 Apr 08 11:33 16304 Apr 10 16:12 16304 Apr 17 11:36 16304 Apr 23 05:25 16304 May 03 05:42 16304 May 07 10:21 16304 May 10 13:30 16304 May 14 11:47 16304 May 14 06:45	24°Υ31'33 21°Υ34'48 19°Υ37'00 19°Υ15'52 22°Υ41'18 0°႘ 17°႘30'35 24°႘30'33 0°Ⅱ 6°Ⅱ44'54 6°Ⅲ23'31	1°08'10 17°49'15 -0°55'30 0°55'21	inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong	16305 Mar 14 13:38 16305 Mar 14 19:36 16305 Mar 22 10:27 16305 Mar 22 17:33 16305 Mar 24 10:08 16305 Apr 01 00:59 16305 Apr 16 05:12 16305 Apr 16 15:43 16305 Apr 24 07:11 16305 Apr 26 10:55 16305 Apr 26 09:28 16305 May 02 19:45	7°Y13'50 7°Y01'52 2°Y33'47 2°Y29'45 2°Y19'01 6°Y06'14 0°8 0°849'08 15°800'04 18°853'32 18°847'00 0°II	-2°36'01 2°33'44 18°09'40 -0°17'52 0°18'06
asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	16304 Apr 01 08:44 16304 Apr 04 20:14 16304 Apr 08 11:33 16304 Apr 10 16:12 16304 Apr 17 11:36 16304 Apr 23 05:25 16304 May 03 05:42 16304 May 07 10:21 16304 May 10 13:30 16304 May 14 11:47 16304 May 14 06:45 16304 May 21 14:21	24°Υ31'33 21°Υ34'48 19°Υ37'00 19°Υ15'52 22°Υ41'18 0°℧ 17°℧03'05 24°℧30'33 0°П 6°П44'54 6°П23'31 18°П31'54	1°08'10 17°49'15 -0°55'30 0°55'21	inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	16305 Mar 14 13:38 16305 Mar 14 19:36 16305 Mar 22 10:27 16305 Mar 22 17:33 16305 Mar 24 10:08 16305 Apr 01 00:59 16305 Apr 16 05:12 16305 Apr 16 15:43 16305 Apr 24 07:11 16305 Apr 26 10:55 16305 Apr 26 09:28 16305 May 02 19:45 16305 May 04 01:18	7°Y13'50 7°Y01'52 2°Y33'47 2°Y29'45 2°Y19'01 6°Y06'14 0°8 0°849'08 15°800'04 18°853'32 18°847'00 0°II 2°II04'50	-2°36'01 2°33'44 18°09'40
asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	16304 Apr 01 08:44 16304 Apr 04 20:14 16304 Apr 08 11:33 16304 Apr 10 16:12 16304 Apr 17 11:36 16304 Apr 23 05:25 16304 May 03 05:42 16304 May 07 10:21 16304 May 10 13:30 16304 May 14 11:47 16304 May 14 06:45 16304 May 21 14:21 16304 May 28 15:22	24°Υ31'33 21°Υ34'48 19°Υ37'00 19°Υ15'52 22°Υ41'18 0°႘ 17°႘303'05 24°႘30'33 0°Π 6°Π44'54 6°Π23'31 18°Π31'54 29°Π42'49	1°08'10 17°49'15 -0°55'30 0°55'21	inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong	16305 Mar 14 13:38 16305 Mar 14 19:36 16305 Mar 22 10:27 16305 Mar 22 17:33 16305 Mar 24 10:08 16305 Apr 01 00:59 16305 Apr 16 05:12 16305 Apr 16 15:43 16305 Apr 24 07:11 16305 Apr 26 10:55 16305 Apr 26 09:28 16305 May 02 19:45 16305 May 04 01:18 16305 May 09 00:08	7°Υ13'50 7°Υ01'52 2°Υ33'47 2°Υ29'45 2°Υ19'01 6°Υ06'14 0°႘ 0°႘49'08 15°႘00'04 18°႘53'32 18°႘47'00 0°Π 2°Π04'50 10°Π14'19	-2°36'01 2°33'44 18°09'40 -0°17'52 0°18'06
asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	16304 Apr 01 08:44 16304 Apr 04 20:14 16304 Apr 08 11:33 16304 Apr 10 16:12 16304 Apr 17 11:36 16304 Apr 23 05:25 16304 May 03 05:42 16304 May 07 10:21 16304 May 10 13:30 16304 May 14 11:47 16304 May 14 06:45 16304 May 21 14:21	24°Υ31'33 21°Υ34'48 19°Υ37'00 19°Υ15'52 22°Υ41'18 0°႘ 17°႘303'05 24°႘30'33 0°Ⅱ 6°Ⅲ44'54 6°Ⅲ23'31 18°Ⅲ31'54 29°Ⅲ42'49 0°©	1°08'10 17°49'15 -0°55'30 0°55'21	inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	16305 Mar 14 13:38 16305 Mar 14 19:36 16305 Mar 22 10:27 16305 Mar 22 17:33 16305 Mar 24 10:08 16305 Apr 01 00:59 16305 Apr 16 05:12 16305 Apr 16 15:43 16305 Apr 24 07:11 16305 Apr 26 10:55 16305 Apr 26 09:28 16305 May 02 19:45 16305 May 04 01:18	7°Y13'50 7°Y01'52 2°Y33'47 2°Y29'45 2°Y19'01 6°Y06'14 0°8 0°8'49'08 15°8'00'04 18°853'32 18°8'47'00 0°II 2°II 04'50 10°II 14'19 0°©	-2°36'01 2°33'44 18°09'40 -0°17'52 0°18'06 1.41682 AU
asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	16304 Apr 01 08:44 16304 Apr 04 20:14 16304 Apr 08 11:33 16304 Apr 10 16:12 16304 Apr 17 11:36 16304 Apr 23 05:25 16304 May 03 05:42 16304 May 07 10:21 16304 May 10 13:30 16304 May 14 11:47 16304 May 14 06:45 16304 May 21 14:21 16304 May 28 15:22	24°Υ31'33 21°Υ34'48 19°Υ37'00 19°Υ15'52 22°Υ41'18 0°႘ 17°႘303'05 24°႘30'33 0°Π 6°Π44'54 6°Π23'31 18°Π31'54 29°Π42'49	1°08'10 17°49'15 -0°55'30 0°55'21	inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	16305 Mar 14 13:38 16305 Mar 14 19:36 16305 Mar 22 10:27 16305 Mar 22 17:33 16305 Mar 24 10:08 16305 Apr 01 00:59 16305 Apr 16 05:12 16305 Apr 16 15:43 16305 Apr 24 07:11 16305 Apr 26 10:55 16305 Apr 26 09:28 16305 May 02 19:45 16305 May 04 01:18 16305 May 09 00:08	7°Υ13'50 7°Υ01'52 2°Υ33'47 2°Υ29'45 2°Υ19'01 6°Υ06'14 0°႘ 0°႘49'08 15°႘00'04 18°႘53'32 18°႘47'00 0°Π 2°Π04'50 10°Π14'19	-2°36'01 2°33'44 18°09'40 -0°17'52 0°18'06 1.41682 AU
asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	16304 Apr 01 08:44 16304 Apr 04 20:14 16304 Apr 08 11:33 16304 Apr 10 16:12 16304 Apr 17 11:36 16304 Apr 23 05:25 16304 May 03 05:42 16304 May 07 10:21 16304 May 10 13:30 16304 May 14 11:47 16304 May 14 10:45 16304 May 21 14:21 16304 May 28 15:22 16304 May 28 19:47	24°Υ31'33 21°Υ34'48 19°Υ37'00 19°Υ15'52 22°Υ41'18 0°႘ 17°႘303'05 24°႘30'33 0°Ⅱ 6°Ⅲ44'54 6°Ⅲ23'31 18°Ⅲ31'54 29°Ⅲ42'49 0°©	1°08'10 17°49'15 -0°55'30 0°55'21 1.43635 AU	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	16305 Mar 14 13:38 16305 Mar 14 19:36 16305 Mar 22 10:27 16305 Mar 22 17:33 16305 Mar 24 10:08 16305 Apr 01 00:59 16305 Apr 16 05:12 16305 Apr 16 15:43 16305 Apr 24 07:11 16305 Apr 26 10:55 16305 Apr 26 10:55 16305 Apr 26 09:28 16305 May 02 19:45 16305 May 04 01:18 16305 May 09 00:08 16305 May 21 19:55	7°Y13'50 7°Y01'52 2°Y33'47 2°Y29'45 2°Y19'01 6°Y06'14 0°8 0°8'49'08 15°8'00'04 18°853'32 18°8'47'00 0°II 2°II 04'50 10°II 14'19 0°©	-2°36'01 2°33'44 18°09'40 -0°17'52 0°18'06 1.41682 AU
asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	16304 Apr 01 08:44 16304 Apr 04 20:14 16304 Apr 08 11:33 16304 Apr 10 16:12 16304 Apr 17 11:36 16304 Apr 23 05:25 16304 May 03 05:42 16304 May 07 10:21 16304 May 10 13:30 16304 May 14 11:47 16304 May 14 10:45 16304 May 21 14:21 16304 May 28 15:22 16304 May 28 19:47 16304 Jun 18 05:29	24°Υ31'33 21°Υ34'48 19°Υ37'00 19°Υ15'52 22°Υ41'18 0°℧ 17°℧03'05 24°℧30'33 0°Ⅱ 6°Ⅱ44'54 6°Ⅱ23'31 18°Ⅱ31'54 29°Ⅱ42'49 0°邱	1°08'10 17°49'15 -0°55'30 0°55'21 1.43635 AU	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	16305 Mar 14 13:38 16305 Mar 14 19:36 16305 Mar 22 10:27 16305 Mar 22 17:33 16305 Mar 24 10:08 16305 Apr 01 00:59 16305 Apr 16 05:12 16305 Apr 16 15:43 16305 Apr 24 07:11 16305 Apr 26 10:55 16305 Apr 26 09:28 16305 May 02 19:45 16305 May 04 01:18 16305 May 09 00:08 16305 May 21 19:55 16305 Jun 11 15:39	7°Y13'50 7°Y01'52 2°Y33'47 2°Y29'45 2°Y19'01 6°Y06'14 0°8 0°8'49'08 15°8'00'04 18°853'32 18°847'00 0°II 2°II04'50 10°II14'19 0°\$ 27°\$00'16	-2°36'01 2°33'44 18°09'40 -0°17'52 0°18'06 1.41682 AU

retrograde	16305 Jun 21 18:47	2° Ω 56'36		evening max el	16306 May 25 05:46	10° © 56'07	24°11'11
evening set	16305 Jun 26 18:45	0° Ω 49'39		retrograde	16306 Jun 05 12:30	17° © 32'13	
	16305 Jun 27 16:00	30° ℝ ∽		asc. node	16306 Jun 05 12:43	17° © 32'13	
inferior conj	16305 Jul 02 01:50	24° © 26'59	3°01'18	evening set	16306 Jun 11 00:10	15° © 12'16	
minimum elong	16305 Jul 02 00:48	24° © 30'35	3°00'34	min. Earth dist.	16306 Jun 15 14:33	9° © 52'53	0.68794 AU
min. Earth dist.	16305 Jul 01 18:27	24° 9 52'38	0.69153 AU	inferior conj	16306 Jun 16 10:58	8° 5 43'48	2°44'00
morning rise	16305 Jul 07 06:43	18° © 15'59		minimum elong	16306 Jun 16 09:12	8° 5 49'45	2°43'00
direct	16305 Jul 11 18:09	16° © 25'55		morning rise	16306 Jun 21 18:18	2° 5 41'50	
morning max el	16305 Jul 20 11:53	21° 5 29′10	21°18'08	direct	16306 Jun 25 17:58	1° © 11'22	
desc. node	16305 Jul 21 06:33	22° © 16'50		morning max el	16306 Jul 03 09:57	5° © 29'12	20°04'12
	16305 Jul 27 18:11	0 $^{\circ}\Omega$		desc. node	16306 Jul 08 03:45	10° © 52'22	
	16305 Aug 17 11:31	0° m)			16306 Jul 21 17:43	0 $^{\circ}$ Ω	
morning set	16305 Aug 20 15:28	4° m 55'27		morning set	16306 Jul 30 22:11	13° Ω 54'35	
max. Earth dist.	16305 Aug 27 13:59	16° Mp 01'00	1.42821 AU	max. Earth dist.	16306 Aug 10 02:31	29° Ω 47'50	1.44562 AU
					16306 Aug 10 05:35	0° m	
superior conj	16305 Sep 03 22:23	28° Mp 16'52					
minimum elong	16305 Sep 04 05:16	28° Mp 46'16	1°23'17	superior conj	16306 Aug 15 15:40	8° m 42'41	
	16305 Sep 04 22:27	0∘ ⊽		minimum elong	16306 Aug 15 23:24	9° m) 14'08	1°54'35
asc. node	16305 Sep 14 16:28	17° ≙ 13'42			16306 Aug 28 09:19	0∘ ত	
evening rise	16305 Sep 15 08:30	18° ≙ 25'54		evening rise	16306 Aug 28 19:58	0° ≏ 45'35	
	16305 Sep 21 20:40	0° M		asc. node	16306 Sep 01 13:10	7° ≏ 06'40	
evening max el	16305 Oct 01 12:39	13°M51'59	18°04'17	evening max el	16306 Sep 15 03:13	27° ≏ 11'28	18°02'49
retrograde	16305 Oct 08 09:11	17°M23'25			16306 Sep 19 00:50	0° M ₊	
evening set	16305 Oct 10 15:48	17° M ₊00'21		retrograde	16306 Sep 21 13:23	0° M 32'31	
desc. node	16305 Oct 17 03:48	12°M33'23		evening set	16306 Sep 24 04:10	29° ≏ 57'47	
inferior conj	16305 Oct 17 16:13	12°MJ04'45			16306 Sep 24 02:07	30°R ≏	
minimum elong	16305 Oct 17 15:54	12°M05'29	0°09'18	inferior conj	16306 Sep 30 13:26	24° ≏ 43'29	1°03'14
transit middle	16305 Oct 17 15:54	12°ML05'29	0°09'18	minimum elong	16306 Sep 30 15:07	24° ≙ 39'03	1°02'51
transit begin	16305 Oct 17 13:11	12° M ₊11'46		min. Earth dist.	16306 Oct 03 08:37	21° ≏ 47'30	0.62597 AU
transit end	16305 Oct 17 18:37	11°ML59'11		desc. node	16306 Oct 04 01:05	21° ≏ 06'42	
min. Earth dist.	16305 Oct 20 20:23	9°M09'35	0.60315 AU	morning rise	16306 Oct 06 23:41	18° ≏ 35'20	
morning rise	16305 Oct 24 12:50	6°M₁9'12		direct	16306 Oct 13 16:05	16° ≏ 09'59	
direct	16305 Oct 31 04:05	4°M11'49		morning max el	16306 Oct 27 17:04	24° ₽ 07'24	27°55'33
morning max el	16305 Nov 14 09:50	12°M01'08	27°53'20		16306 Nov 02 00:48	0° M ₊	
	16305 Nov 28 14:50	0° ∡¹			16306 Nov 21 23:49	0° ∡ ¹	
asc. node	16305 Dec 11 17:01	22° ₹ 33'49		asc. node	16306 Nov 28 14:01	12° ∡ 22'47	
. ,	16305 Dec 15 10:24	0°る		morning set	16306 Nov 30 22:59	17° 🗷 08'45	1 21720 444
morning set	16305 Dec 17 00:52	3° る 19'55	1 21004 ATT	max. Earth dist.	16306 Dec 06 04:08	28° ∡ '08'17	1.31720 AU
max. Earth dist.	16305 Dec 23 01:12	16°623'37	1.31084 AU		16306 Dec 07 00:41	0°⋜	
superior conj	16305 Dec 24 03:09	18° පි 48'41	1°31'59	superior conj	16306 Dec 08 12:04	3° る 13'47	1°20'14
minimum elong	16305 Dec 24 01:44	18° ප් 40'43	1°32'32	minimum elong	16306 Dec 08 09:56	3° る 02'04	1°20'40
Č	16305 Dec 29 03:46	0° ≈		evening rise	16306 Dec 15 06:10	18° る 05'15	
evening rise	16305 Dec 30 19:45	3° ≈ 37'57		· ·	16306 Dec 20 23:55	0° ≈	
desc. node	16306 Jan 13 02:44	29° ≈ 09'35		desc. node	16306 Dec 30 23:35	17° ≈ 15′01	
	16306 Jan 13 15:07	0° ∀		evening max el	16307 Jan 09 02:03	28° ≈ 21'07	24°15'23
evening max el	16306 Jan 27 14:00	18°) €05'06	25°49'36		16307 Jan 10 22:00	0°)	
retrograde	16306 Feb 10 12:34	25°) €07'27		retrograde	16307 Jan 22 16:32	5°) €07'02	
evening set	16306 Feb 16 12:12	23°) 44′24		evening set	16307 Jan 27 17:45	4° ¥ 11'25	
min. Earth dist.	16306 Feb 21 03:01	21° ¥ 05′14	0.57248 AU	min. Earth dist.	16307 Feb 02 13:46	1° ¥ 16′58	0.55542 AU
inferior conj	16306 Feb 24 01:14	19° ∺ 03'52	-4°07'07	inferior conj	16307 Feb 04 15:37	0° ₩ 01'23	-5°24'30
minimum elong	16306 Feb 24 10:17	18° ¥ 48'11	4°04'04	minimum elong	16307 Feb 04 23:58	29° ≈ 48'43	5°22'31
morning rise	16306 Mar 04 11:24	14° ¥ 45′06			16307 Feb 04 16:32	30° ₹ ≈	
direct	16306 Mar 06 10:57	14° ¥ 32'51		morning rise	16307 Feb 13 08:06	26° ≈ 02'21	
asc. node	16306 Mar 09 14:55	15° ∺ 05'50		direct	16307 Feb 15 16:10	25° ≈ 48′10	
morning max el	16306 Mar 15 06:31	18° ¥ 52'35	18°50'45	asc. node	16307 Feb 24 12:15	29° ≈ 28′07	
	16306 Mar 23 10:17	0 ° Υ			16307 Feb 25 03:02	0° ∀	
morning set	16306 Mar 31 12:53	15° Ƴ 03'54		morning max el	16307 Feb 25 23:59	0°) 48′52	19°54'33
	16306 Apr 08 05:20	9° 8		morning set	16307 Mar 15 17:30	29°) 36′37	
					16307 Mar 15 22:06	0° Y	
superior conj	16306 Apr 09 05:01	1° 8 52'23	0°16'28				
minimum elong	16306 Apr 09 06:04	1° 8 57'22	0°15'58	superior conj	16307 Mar 23 13:45	15° Y ′29'56	0°45'19
desc. node	16306 Apr 11 03:56	5° 8 32'05		minimum elong	16307 Mar 23 16:02	15° Y 41'18	0°44'50
max. Earth dist.	16306 Apr 16 08:36	14° 8 56'30	1.39443 AU	desc. node	16307 Mar 29 00:38	26° Y ′03'14	
evening rise	16306 Apr 20 06:07	21° 8 41'02		max. Earth dist.	16307 Mar 29 15:12	27° Y 11'25	1.37157 AU
	16306 Apr 25 06:43	Π °0			16307 Mar 31 03:37	0°8	
	16306 May 15 19:34	0° ©		evening rise	16307 Apr 02 08:05	3° 8 57'37	

	16307 Apr 18 07:00	0°Щ		desc. node	16308 Mar 14 21:19	16° Ƴ 29'06	
evening max el	16307 May 07 19:13	24° ∏ 50'37	25°28'01	evening rise	16308 Mar 15 02:39	16° Υ 54'17	
e venning man er	16307 May 14 03:18	0.2 2.2	20 20 01	evening rise	16308 Mar 22 09:45	0°8	
retrograde	16307 May 20 02:00	1° 9 57'16			16308 Apr 11 15:36	0°II	
asc. node	16307 May 23 09:49	1°9512'04		evening max el	16308 Apr 19 08:49	8° Ⅱ 38'16	26°32'51
	16307 May 25 09:01	30°R Ⅱ		retrograde	16308 May 02 10:26	16° Ⅱ 04'02	
evening set	16307 May 26 00:51	29° Ⅱ 28'11		evening set	16308 May 08 19:02	13° Ⅱ 31'12	
min. Earth dist.	16307 May 30 07:39	24° Ⅱ 45'47	0.67954 AU	asc. node	16308 May 09 06:57	13° Ⅱ 06'04	
inferior conj	16307 May 31 17:12	22° II 57'33	2°15'51	min. Earth dist.	16308 May 12 19:44	9° Ⅱ 24'02	0.66652 AU
minimum elong	16307 May 31 15:02	23° Ⅱ 04'33	2°14'37	inferior conj	16308 May 14 18:24	7° Ⅱ 03'33	1°35'56
morning rise	16307 Jun 06 05:40	17° Ⅱ 05'54		minimum elong	16308 May 14 16:22	7° Ⅱ 09'43	1°34'39
direct	16307 Jun 09 18:11	15° Ⅱ 54'48		morning rise	16308 May 20 14:47	1° Ⅱ 23'31	
morning max el	16307 Jun 16 15:19	19° Ⅲ 38'47	19°04'38	direct	16308 May 23 16:56	0° Ⅲ 30′10	
	16307 Jun 24 23:08	0 \circ \odot		morning max el	16308 May 30 03:08	3° Ⅱ 53'26	18°21'19
desc. node	16307 Jun 25 00:53	0°506'11		desc. node	16308 Jun 10 21:55	19° Ⅱ 48'15	
greatest brilliancy	16307 Jun 29 14:45	6° © 48'14	-0.7m		16308 Jun 17 09:25	0 \circ \odot	
morning set	16307 Jul 10 05:05	22° © 59'23		morning set	16308 Jun 19 06:52	3° ഇ 00'13	
	16307 Jul 14 17:57	$0^{\circ}\Omega$					
max. Earth dist.	16307 Jul 23 20:12	14° Ω 08′33	1.45659 AU	superior conj	16308 Jul 04 20:48	27° © 29'52	-2°10'56
				minimum elong	16308 Jul 04 16:24	27° 5 12'43	2°11'27
superior conj	16307 Jul 26 11:29	18° Ω 16'48	-2°12'31	max. Earth dist.	16308 Jul 05 16:14	28° 5 45'36	1.46021 AU
minimum elong	16307 Jul 26 14:51	18° Ω 30′03	2°12'56		16308 Jul 06 11:20	0 $^{\circ}$ Ω	
	16307 Aug 02 20:47	0° ™		evening rise	16308 Jul 20 20:30	22° Ω 25'45	
evening rise	16307 Aug 10 08:48	12°Mp07'05			16308 Jul 25 16:45	0° m	
asc. node	16307 Aug 19 09:52	26° Mp 44'19		greatest brilliancy	16308 Jul 30 12:31	7° m) 28'12	-0.8m
	16307 Aug 21 12:13	0∘ ⊽		asc. node	16308 Aug 05 06:35	16° Mp 00'49	
evening max el	16307 Aug 29 17:44	10° ≏ 49'19	18°19'28	evening max el	16308 Aug 12 05:21	24° m 38'23	18°53'28
retrograde	16307 Sep 05 03:04	14° ≏ 13'23		retrograde	16308 Aug 18 22:30	28° Mp 18'16	
evening set	16307 Sep 08 02:41	13° ≏ 24'11		evening set	16308 Aug 22 07:35	27° m 12'32	
inferior conj	16307 Sep 14 00:07	7° ≙ 53'48	1°57'15	inferior conj	16308 Aug 27 20:39	21° m)28'15	2°34'21
minimum elong	16307 Sep 14 02:25	7° ≙ 47'02	1°56'36	minimum elong	16308 Aug 27 22:42	21° m)21'43	2°33'44
min. Earth dist.	16307 Sep 16 06:46	5° Ω 14'32	0.64696 AU	min. Earth dist.	16308 Aug 29 13:32	19° m 19'00	0.66469 AU
morning rise	16307 Sep 20 00:37	1° △ 32'23		morning rise	16308 Sep 02 12:56	15° Mp 01'30	
desc. node	16307 Sep 20 22:25	0° £ 51'38		desc. node	16308 Sep 06 19:45	12° m 38'53	
	16307 Sep 22 08:40	30°R, Mp		direct	16308 Sep 08 17:28	12° m) 24'48	26021110
direct	16307 Sep 26 12:56	28° m 57'06		morning max el	16308 Sep 21 15:26	20° Mp 04'41	26°21'18
·	16307 Oct 01 00:57	0∘ ⊽	27922117		16308 Sep 30 04:11	0∘ ফ	
morning max el	16307 Oct 10 03:47	6° Ω 52'40	27°22'16		16308 Oct 20 02:09	0°M	
	16307 Oct 27 23:49	0°M 0°. ⊼ 30124		morning set	16308 Oct 27 12:42	13°M.18'28 20°M.39'11	1 24672 AII
morning set	16307 Nov 14 11:58 16307 Nov 14 05:45	0° द्र³30′24 0° द्र³		max. Earth dist. asc. node	16308 Oct 31 08:45 16308 Nov 01 07:45	20°M32'24	1.34672 AU
asc. node	16307 Nov 14 03:43	2° x ¹ 23'44		asc. Houe	16308 Nov 05 00:27	22 11632 24 0° √ 1	
max. Earth dist.	16307 Nov 18 23:21	9° x 32'26	1.32926 AU		10308 NOV 03 00.27	0 X	
max. Earth dist.	10307 NOV 18 23.21	9 🛪 32 20	1.32920 AU	superior conj	16308 Nov 05 14:30	1° ∡ 12'17	0°38'11
superior conj	16307 Nov 22 16:38	17° ∡ ²23'24	1°02'17	minimum elong	16308 Nov 05 12:34	1°×1217	0°38'25
minimum elong	16307 Nov 22 14:16	17° 🗷 10'41	1°02'35	evening rise	16308 Nov 13 01:51	16° ₹ 52'02	0 30 23
minimum ciong	16307 Nov 28 12:39	0°る	1 02 33	evening rise	16308 Nov 19 14:54	0°る	
evening rise	16307 Nov 29 16:49	2° る 31'16		evening max el	16308 Dec 02 04:53	18° る 27'41	20°56'06
	16307 Dec 14 15:10	0° ≈		desc. node	16308 Dec 03 17:29	19° る 52'24	
desc. node	16307 Dec 17 20:31	4° ≈ 16'18		retrograde	16308 Dec 13 17:52	24° ප් 10'41	
evening max el	16307 Dec 21 11:38	8°≈15'12	22°31'37	evening set	16308 Dec 16 08:35	23° る 54'24	
retrograde	16308 Jan 03 08:10	14° ≈ 36'45		inferior conj	16308 Dec 25 02:58	20° පි 03'05	-5°38'41
evening set	16308 Jan 07 03:09	14° ≈ 05′16		minimum elong	16308 Dec 24 19:21	20°る13'57	5°36'49
min. Earth dist.	16308 Jan 14 19:50	10° ≈ 35'33	0.54538 AU	min. Earth dist.	16308 Dec 26 01:10	19° る 31'25	0.54448 AU
inferior conj	16308 Jan 15 12:22	10° ≈ 12'15	-6°01'46	morning rise	16309 Jan 02 06:10	16° ට 09'46	
minimum elong	16308 Jan 15 13:31	10° ≈ 10′39	6°01'10	direct	16309 Jan 06 11:51	15° ට 31'05	
morning rise	16308 Jan 24 00:59	6° ≈ 24'27		morning max el	16309 Jan 19 15:49	21° る 56'59	23°06'39
direct	16308 Jan 27 04:30	6° ≈ 02'01			16309 Jan 26 12:56	0° ≈	
morning max el	16308 Feb 08 02:28	11° ≈ 47′25	21°21'34	asc. node	16309 Jan 28 06:50	2° ≈ 30'05	
asc. node	16308 Feb 11 09:34	15° ≈ 22'15		morning set	16309 Feb 11 14:09	29° ≈ 01'12	
	16308 Feb 20 21:48	0° ∀			16309 Feb 12 01:09	0° ∀	
morning set	16308 Feb 28 02:40	14° ¥ 17′50					
				superior conj	16309 Feb 18 12:06	13° ¥ 57'19	1°24'15
superior conj	16308 Mar 06 09:10	29°) (34′34	1°07'58	minimum elong	16309 Feb 18 14:08	14°) €08'18	1°24'17
minimum elong	16308 Mar 06 11:41	29°) 47′35	1°07'42	max. Earth dist.	16309 Feb 21 18:11	20° 米 51'40	1.33293 AU
	16308 Mar 06 14:05	0° Υ		evening rise	16309 Feb 26 10:24	0° Υ 22'14	
max. Earth dist.	16308 Mar 11 01:13	9° Ƴ 03'27	1.35044 AU		16309 Feb 26 05:54	0° Ƴ	

Tranetary Trienc	mena or wicreary	110111 10100	tinough 1000	2 (01), / istrodict	151 710 10 1 00 2025	17.22,	page 113
desc. node	16309 Mar 01 17:59	6° Ƴ 45'37		minimum elong	16310 Feb 02 21:09	28° ≈ 37'43	1°34'36
	16309 Mar 15 10:45	0° ႘		Č	16310 Feb 03 12:06	0°) €	
evening max el	16309 Apr 01 22:14	22° 8 10'09	27°18'09	max. Earth dist.	16310 Feb 04 18:46	2°) (47'43	1.32003 AU
retrograde	16309 Apr 15 12:47	29° 8 43'11		evening rise	16310 Feb 10 04:13	14°) 13′54	
evening set	16309 Apr 22 04:34	27° 8 13'16		desc. node	16310 Feb 16 14:40	26°) 48′09	
min. Earth dist.	16309 Apr 26 00:55	23° 8 38'15	0.64939 AU		16310 Feb 18 08:41	0° Y	
asc. node	16309 Apr 26 04:10	23° 8 29'31			16310 Mar 10 11:48	0°8	
inferior conj	16309 Apr 28 12:04	20° 8 55'27	0°42'59	evening max el	16310 Mar 15 10:03	5° 8 14'59	27°36'35
minimum elong	16309 Apr 28 10:55	20° 8 58'37	0°42'04	retrograde	16310 Mar 29 07:50	12° 8 45'21	
morning rise	16309 May 04 19:11	15° 8 28'44		evening set	16310 Apr 05 03:05	10° 8 25'43	
direct	16309 May 07 11:58	14° 8 50'28		min. Earth dist.	16310 Apr 08 21:23	7° 8 18'09	0.62906 AU
morning max el	16309 May 13 19:14	18° 8 05'33	17°55'01	inferior conj	16310 Apr 11 19:15	4° 8 25'59	-0°24'00
Č	16309 May 22 17:09	Π°		minimum elong	16310 Apr 11 20:02	4° 8 24'02	0°24'00
desc. node	16309 May 28 18:54	9° Ⅱ 50'33		asc. node	16310 Apr 13 01:25	3° 8 12'30	
morning set	16309 May 31 11:48	14° Ⅱ 18'40			16310 Apr 17 02:14	30° ₽ Υ	
Č	16309 Jun 10 02:02	0 \circ \odot		morning rise	16310 Apr 18 15:46	29° Y 15'03	
				direct	16310 Apr 21 00:26	28° Y '48'35	
superior conj	16309 Jun 14 12:20	7° © 04'55	-1°50'20		16310 Apr 24 21:01	0°႘	
minimum elong	16309 Jun 14 03:49	6°931'07	1°50'17	morning max el	16310 Apr 27 12:53	2° 8 07'04	17°46'12
max. Earth dist.	16309 Jun 18 12:11	13°S22'59	1.45635 AU	morning set	16310 May 13 17:53	26° 8 48'29	
man. Bartin diot.	16309 Jun 29 05:32	0°Ω	1.10050110	desc. node	16310 May 15 15:48	0° П 07'15	
evening rise	16309 Jun 30 12:17	1° Ω 57'51		dose. Hode	16310 May 15 14:07	0°II	
greatest brilliancy	16309 Jul 14 17:30	23° Ω 21'04	-0.6m		10510 Way 15 14.07	ОД	
greatest oriniancy	16309 Jul 19 10:25	0° m)	0.0111	superior conj	16310 May 25 23:13	17° Ⅲ 34'48	-1°17'09
asc. node	16309 Jul 23 03:21	4° m) 47'52		minimum elong	16310 May 25 16:08	17° Ⅱ 05'34	
evening max el	16309 Jul 26 11:55	8° m ₂ 32'02	19°43'41	max. Earth dist.	16310 Jun 01 06:19		1.44546 AU
retrograde	16309 Aug 02 20:47	12° m/39'54	17 43 41	max. Lartii dist.	16310 Jun 02 15:33	0°95	1.44540 AC
evening set	16309 Aug 06 16:01	11° Mp 16'24		evening rise	16310 Jun 09 23:09	11° © 24'58	
inferior conj	16309 Aug 11 23:55		2°57'02	evening rise	16310 Jun 22 08:36	0°Ω	
minimum elong	16309 Aug 12 01:16		2°56'31	evening max el	16310 Jul 09 12:31	22° Ω 27'07	20048104
min. Earth dist.	16309 Aug 12 01:10 16309 Aug 13 02:53	3° m/ 49'24	0.67833 AU	asc. node	16310 Jul 10 00:10	$22^{\circ}\Omega55'39$	20 48 04
iiiii. Eartii tiist.	16309 Aug 15 02:33	30°RΩ	0.07833 AU	retrograde	16310 Jul 17 19:47	27° Ω 13'04	
morning rise	16309 Aug 17 10:01	28° Ω 53'25		evening set	16310 Jul 22 01:52	25° Ω 31'37	
direct	16309 Aug 23 04:21	26° Ω 23'04		inferior conj	16310 Jul 27 07:30	$19^{\circ}\Omega 23'33$	3°07'19
desc. node	16309 Aug 23 04.21 16309 Aug 24 17:07	26° Ω 32'24		minimum elong	16310 Jul 27 07:55	$19^{\circ} \Omega 22'05$	3°06'48
desc. node	16309 Aug 24 17:07 16309 Aug 31 05:48	0° m)		min. Earth dist.	16310 Jul 27 20:49	$18^{\circ} \Omega 37'28$	0.68735 AU
morning may al	•	3°Mo31'13	25001156			$13^{\circ}\Omega 01'37$	0.08/33 AU
morning max el	16309 Sep 04 02:27	0∘ ত بارکتاری	25 01 50	morning rise direct	16310 Aug 01 13:41 16310 Aug 06 20:19	$10^{\circ} \Omega 44'00$	
mamina sat	16309 Sep 24 09:24	0 <u>≈</u> 25° <u>≈</u> 23'24			C		
morning set	16309 Oct 09 21:20			desc. node	16310 Aug 11 14:28	12° Ω 13'47	22022140
may Earth dist	16309 Oct 12 10:48	0°ጤ 1°ጤ45'17	1.36850 AU	morning max el	16310 Aug 17 13:30	17° Ω 07'05	23 33 46
max. Earth dist.	16309 Oct 13 09:46		1.30830 AU		16310 Aug 28 06:40	0° m)	
asc. node	16309 Oct 19 04:31	12°M44'10			16310 Sep 17 09:56	0° ⊽	
	16200 0 + 20 02 26	1.40 m 22120	0000117	morning set	16310 Sep 21 09:41	6° £ 35'46	1.39255 AU
superior conj	16309 Oct 20 02:36	14°M32'30 14°M29'50	0°08'17	max. Earth dist.	16310 Sep 25 08:33	13-22/31	1.39255 AU
minimum elong	16309 Oct 20 02:03		0°08'37		16210 0 4 02 01 12	270 0 1 712 4	0006100
behind sun begin	16309 Oct 19 20:31	14°M02'36		superior conj	16310 Oct 03 01:13	27° £ 15′24	
behind sun end	16309 Oct 20 07:35	14°M57'07		minimum elong	16310 Oct 03 03:09	27° £ 24'24	0°25'47
	16309 Oct 27 18:50	0° द्र ⁷		1	16310 Oct 04 12:17	0°M	
evening rise	16309 Oct 28 07:00	1°×701'42	10020147	asc. node	16310 Oct 06 01:14	2°M55'32	
evening max el	16309 Nov 14 12:12	29° ∡ ¹25'17	19°39'47	evening rise	16310 Oct 12 05:39	14°M53'47	
1 1	16309 Nov 15 02:30	0°る			16310 Oct 20 08:04	0° √ ¹	10045150
desc. node	16309 Nov 20 14:34	3°る39'08		evening max el	16310 Oct 28 09:18	11° 🗷 13'05	18°45'50
retrograde	16309 Nov 24 09:49	4°る22'05		retrograde	16310 Nov 05 19:00	15° ∡ 28′00	
evening set	16309 Nov 26 09:46	4°る10'56		desc. node	16310 Nov 07 11:44	15° ∡ 18'12	
inferior conj	16309 Dec 05 02:09	0° ろ 08'11		evening set	16310 Nov 07 16:51	15° ∡ 15'38	20.40122
minimum elong	16309 Dec 04 16:16	0°る23'42	4~18′21	inferior conj	16310 Nov 15 20:18	10° ₹ 52'59	
	16309 Dec 05 07:20	30°₹ ⋌ ¹	0.55000 : **	minimum elong	16310 Nov 15 13:47	11° × 704'52	
min. Earth dist.	16309 Dec 07 08:44	28° 🗷 42'27	0.55292 AU	min. Earth dist.	16310 Nov 18 21:26	8° × ⁷ 40'12	0.56904 AU
morning rise	16309 Dec 12 21:07	25° 🗷 51'08		morning rise	16310 Nov 23 07:41	6° ₹ 00'29	
direct	16309 Dec 18 03:11	24° ₹ '49'48		direct	16310 Nov 29 07:50	4° ₹ 33'15	0.000
	16309 Dec 30 00:16	0°る		morning max el	16310 Dec 13 12:19	11° ∡ 754'15	26°30'55
morning max el	16309 Dec 31 24:00	1°る46'45	24°56'12	_	16310 Dec 27 13:20	0°る	
asc. node	16310 Jan 15 04:02	20°る34'30		asc. node	16311 Jan 02 01:12	9°る20'53	
	16310 Jan 20 09:36	0° ≈		morning set	16311 Jan 11 12:36	28° る 14'05	
morning set	16310 Jan 27 02:04	13° ≈ 41'44			16311 Jan 12 08:11	0° ≈	
	16210 7 1 02 10 5	200 2::::	102415		1/011 7 10 077	120 022	1020100
superior conj	16310 Feb 02 19:58	28° ≈ 31'12	1~34′15	superior conj	16311 Jan 18 06:34	13° ≈ 09'24	1~38'08

minimum elong	16311 Jan 18 06:42	13°≈10'12	1°38'40	max. Earth dist.	16312 Jan 02 08:30	26° る 53'34	1.30978 AU
max. Earth dist.	16311 Jan 19 00:42	13 ≈ 10 12 14° ≈ 50'43	1.31224 AU	max. Lartii dist.	16312 Jan 03 17:46	20 ⊙ 33 34	1.50776 AC
evening rise	16311 Jan 25 05:23	28°≈21'56	1.51221110	evening rise	16312 Jan 09 11:42	12° ≈ 41'15	
	16311 Jan 26 00:04	0°) €			16312 Jan 18 02:53	0° ∀	
desc. node	16311 Feb 03 11:23	16°) 30′00		desc. node	16312 Jan 21 08:10	5°) 43′26	
	16311 Feb 11 14:54	0° Y		evening max el	16312 Feb 07 18:05	29° ¥ 10'47	26°32'42
evening max el	16311 Feb 25 17:36	17° Y 38'32	27°22'16		16312 Feb 08 15:20	0° Y	
retrograde	16311 Mar 11 18:04	25° Ƴ 00′17		retrograde	16312 Feb 21 18:12	6° Y 21′21	
evening set	16311 Mar 18 11:38	22° Y ′57'55		evening set	16312 Feb 28 02:58	4° Y '42'24	
min. Earth dist.	16311 Mar 22 07:41	20° Y 10'42		min. Earth dist.	16312 Mar 03 07:36	2° Y ′04'35	0.58441 AU
inferior conj	16311 Mar 25 12:21	17° Y 24'50		inferior conj	16312 Mar 06 11:35	29°) 42′02	
minimum elong	16311 Mar 25 16:12	17° Y 16′26	1°43'16	minimum elong	16312 Mar 06 19:04	29° ¥ 27'57	3°12'11
asc. node	16311 Mar 30 22:45	13° Y ′23′16			16312 Mar 06 02:06	30° ₹	
morning rise	16311 Apr 02 00:11	12° Y 32'42		morning rise	16312 Mar 14 14:39	25°) 11'18	
direct	16311 Apr 04 02:29	12°Υ14'35	15055125	direct	16312 Mar 16 13:37	24°) (58'02	
morning max el	16311 Apr 11 04:50	15° Y 47'46	17°55'35	asc. node	16312 Mar 16 20:05	24°) 58'18	10024124
. ,	16311 Apr 21 02:53	0°8		morning max el	16312 Mar 24 15:23	28°) € 57'20	18°24'34
morning set	16311 Apr 26 19:17	10° 8 10'59			16312 Mar 25 15:35	0° Υ 24° Υ 10'01	
desc. node	16311 May 02 12:37	20° 8 32'50		morning set	16312 Apr 09 10:29 16312 Apr 12 11:50	0° 8	
superior conj	16311 May 07 09:32	29° 8 08'21	0°30'21	desc. node	16312 Apr 12 11:30 16312 Apr 18 09:23	11° 8 03'24	
minimum elong	16311 May 07 06:05	28° 8 53'24		dese. Hode	10312 Apr 10 07.23	11 00324	
minimum clong	16311 May 07 00:03	0°II	0 3721	superior conj	16312 Apr 18 17:14	11° 8 39'23	-0°02'45
max. Earth dist.	16311 May 14 20:35	11° I I44'21	1.42856 AU	minimum elong	16312 Apr 18 17:00	11° 8 38'18	0°03'07
evening rise	16311 May 20 20:56	21° II 25'36		behind sun begin	16312 Apr 18 09:52	11° 8 05'34	
Ü	16311 May 26 09:31	0ංම		behind sun end	16312 Apr 19 00:08	12° 8 10'58	
	16311 Jun 16 16:13	$0^{\circ}\Omega$		max. Earth dist.	16312 Apr 26 05:45	24° 8 59'29	1.40747 AU
evening max el	16311 Jun 22 07:27	6° Ω 21'29	22°03'19		16312 Apr 29 04:51	Π°	
asc. node	16311 Jun 26 21:06	10° Ω 10'38		evening rise	16312 Apr 30 14:29	2° Ⅱ 19′27	
retrograde	16311 Jul 01 17:53	11° Q 51'53			16312 May 18 16:58	0 \circ \odot	
evening set	16311 Jul 06 11:19	9° £ 53′26		evening max el	16312 Jun 03 22:28	20° © 15'38	23°24'25
inferior conj	16311 Jul 11 17:11	3° Ω 35′28	3°06'32	asc. node	16312 Jun 12 18:05	26°5516'10	
minimum elong	16311 Jul 11 16:40	3° Ω 37'18	3°05'54	retrograde	16312 Jun 14 13:38	26° © 30'15	
min. Earth dist.	16311 Jul 11 17:13	3° £ 35′21	0.69142 AU	evening set	16312 Jun 19 18:40	24° © 17'05	
	16311 Jul 14 09:26	30° ₹ 5		min. Earth dist.	16312 Jun 24 14:03	18° © 36'13	0.69055 AU
morning rise	16311 Jul 16 21:51	27°5520'12		inferior conj	16312 Jun 25 03:03	17°951'23	2°55'16
direct	16311 Jul 21 16:15	25°©19'32		minimum elong	16312 Jun 25 01:41	17°956'06	2°54'25
desc. node	16311 Jul 29 11:45	29°©18'38		morning rise	16312 Jun 30 08:41	11°5544'11	
mamina may al	16311 Jul 30 05:42	0° Ω 0° Ω 51'34	22905150	direct	16312 Jul 04 14:56	10°502'40	20045110
morning max el	16311 Jul 31 02:51 16311 Aug 22 01:55	0° m	22 03 30	morning max el desc. node	16312 Jul 12 21:10 16312 Jul 15 08:59	14° © 45'38 17° © 25'42	20°45'10
morning set	16311 Sep 01 22:42	16° Mp 49'20		desc. Hode	16312 Jul 25 00:34	0°Ω	
max. Earth dist.	16311 Sep 07 22:42	25° m/49'51	1.41603 AU	morning set	16312 Aug 11 13:44	26° Ω 08'11	
man. Darun dibe.	16311 Sep 09 22:37	0∘ ⊽	1005110	morning sec	16312 Aug 14 01:15	0° m)	
				max. Earth dist.	16312 Aug 19 19:35	9° m) 09'03	1.43624 AU
superior conj	16311 Sep 15 06:04	9° 亞 11'11	-1°03'21		C	•	
minimum elong	16311 Sep 15 11:14	9° ॒ 33'58	1°02'31	superior conj	16312 Aug 26 12:55	20° m 10'22	-1°38'17
asc. node	16311 Sep 22 21:58	23° ჲ 03'06		minimum elong	16312 Aug 26 20:38	20° m 42'38	1°37'36
evening rise	16311 Sep 25 18:21	28° ≏ 19'51			16312 Sep 01 07:47	0∘ ত	
	16311 Sep 26 15:58	0° M.		evening rise	16312 Sep 07 16:34	11° ≏ 07'33	
evening max el	16311 Oct 11 16:30	23°M44'35	18°13'35	asc. node	16312 Sep 08 18:40	13° ჲ 02'31	
retrograde	16311 Oct 18 23:44	27°M28'31			16312 Sep 18 20:41	0° ™	
evening set	16311 Oct 21 02:08	27° M ₁10'34		evening max el	16312 Sep 24 05:29	6° ™ 49'11	18°01'20
desc. node	16311 Oct 25 08:59	24°M.57'15		retrograde	16312 Sep 30 20:36	10°M14'54	
inferior conj	16311 Oct 28 12:22	22°M26'25		evening set	16312 Oct 03 06:26	9°M47'26	0000100
minimum elong	16311 Oct 28 10:09	22°M31'10	0°59'12	inferior conj	16312 Oct 10 00:03	4°M43'38	0°23'33
min. Earth dist. morning rise	16311 Oct 31 18:20 16311 Nov 04 14:44	19°M41'09 16°M57'57	0.59001 AU	minimum elong desc. node	16312 Oct 10 00:47 16312 Oct 11 06:17	4°M41'50 3°M28'59	0°23'35
direct	16311 Nov 04 14:44 16311 Nov 11 02:10	15°ML04'26		min. Earth dist.	16312 Oct 11 06:17	1°M45'29	0.61293 AU
morning max el	16311 Nov 25 09:02	22°M45'20	27°34'24	min. Durin dist.	16312 Oct 15 01:04 16312 Oct 15 01:02	30°R Ω	5.012/3 AU
morning max or	16311 Dec 01 20:11	0° √	2, 2,2,	morning rise	16312 Oct 16 16:13	28° Ω 46'54	
asc. node	16311 Dec 19 22:18	28° × ⁷ 38'08		direct	16312 Oct 23 08:32	26° ⊆ 30'52	
	16311 Dec 20 15:25	0°る		•	16312 Nov 01 09:23	0°M	
morning set	16311 Dec 26 19:58	12° ⋜ 33'56		morning max el	16312 Nov 06 13:12	4°M25'31	27°58'55
-				-	16312 Nov 25 15:16	0° ∡ ¹	
superior conj	16312 Jan 02 18:01	27° る 46'55	1°35'58	asc. node	16312 Dec 05 19:20	18° ∡ 17'14	
minimum elong	16312 Jan 02 17:08	27° る 41'55	1°36'33	morning set	16312 Dec 09 22:06	26° ₹ ³35'29	

	1/212 D 11 12 02	007			1621231 22 16 41	100 712122	
n dr.	16312 Dec 11 13:02	0°る	1 21205 444	morning set	16313 Nov 23 16:41	10° ₹ 13'33	1 22166 444
max. Earth dist.	16312 Dec 15 14:09	8° る 46'11	1.31285 AU	max. Earth dist.	16313 Nov 28 13:56	20° ∡ °21′00	1.32166 AU
	16212 D 17 04 24	100717150	1005145		16212 D 01 11 45	260 727114	1012122
superior conj	16312 Dec 17 04:24	12°る17'52	1°27'45	superior conj	16313 Dec 01 11:45	26° ₹ 37'14	
minimum elong	16312 Dec 17 02:38	12°る08'03	1°28'16	minimum elong	16313 Dec 01 09:27	26° ₹ '24'43	1°13'45
evening rise	16312 Dec 23 21:07	27° る 06'27			16313 Dec 03 00:52	0° ろ	
	16312 Dec 25 05:26	0° ≈		evening rise	16313 Dec 08 07:51	11° る 33'34	
desc. node	16313 Jan 07 04:59	24°≈17′23			16313 Dec 17 13:13	0° ≈	
	16313 Jan 11 01:18	0° ∀		desc. node	16313 Dec 25 01:52	11° ≈ 57'48	
evening max el	16313 Jan 19 10:09	9° ∺ 50'40	25°11'43	evening max el	16313 Dec 31 20:14	19° ≈ 53'32	23°31'15
retrograde	16313 Feb 02 06:29	16°) 47 ′27		retrograde	16314 Jan 14 04:58	26° ≈ 30'16	
evening set	16313 Feb 07 21:34	15°) 36′05		evening set	16314 Jan 18 17:35	25° ≈ 46′00	
min. Earth dist.	16313 Feb 12 22:39	12°) 52′32	0.56449 AU	min. Earth dist.	16314 Jan 25 07:20	22° ≈ 38'43	0.55013 AU
inferior conj	16313 Feb 15 14:02	11° ∺ 09'12	-4°43'07	inferior conj	16314 Jan 26 20:03	21° ≈ 45′13	-5°46'52
minimum elong	16313 Feb 15 23:30	10° ¥ 53'46	4°40'18	minimum elong	16314 Jan 27 02:05	21° ≈ 36′25	5°45'38
morning rise	16313 Feb 24 04:07	6° ¥ 59'40		morning rise	16314 Feb 04 12:00	17° ≈ 52′00	
direct	16313 Feb 26 05:48	6°){ 47′20		direct	16314 Feb 07 02:57	17° ≈ 35'13	
asc. node	16313 Mar 03 17:24	8° 升 19'53		morning max el	16314 Feb 18 03:36	22° ≈ 55'39	20°28'51
morning max el	16313 Mar 07 16:21	11°) €23'48	19°15'06	asc. node	16314 Feb 18 14:43	23° ≈ 23'07	
Ü	16313 Mar 20 01:53	$0^{\circ}\mathbf{Y}$			16314 Feb 23 23:57	0° ₩	
morning set	16313 Mar 24 11:10	8° Y '33'02		morning set	16314 Mar 08 18:01	23°) €09'57	
Z .				Č	16314 Mar 12 01:18	0° Y	
superior conj	16313 Apr 01 18:04	24° Y ′55'59	0°29'26		100111111111111111111111111111111111111	• •	
minimum elong	16313 Apr 01 19:47	25° Υ '04'19	0°28'55	superior conj	16314 Mar 16 07:44	8° Y 45'53	0°55'43
minimum ciong	16313 Apr 04 09:47	0°8	0 2033	minimum elong	16314 Mar 16 10:14	8° Υ 58'29	0°55'17
desc. node	16313 Apr 05 06:07	1° 8 35'23		max. Earth dist.	16314 Mar 21 19:03	19° Υ 33'49	1.36222 AU
max. Earth dist.	16313 Apr 08 11:44	7° 8 31'53	1.38453 AU	desc. node	16314 Mar 23 02:46	22° Υ 04'33	1.30222 AU
	-	14° 8 08'11	1.36433 AU			26° Y 43'09	
evening rise	16313 Apr 12 05:17	0°Ⅱ		evening rise	16314 Mar 25 14:46	0° 8	
	16313 Apr 21 20:07				16314 Mar 27 10:18		
	16313 May 13 14:01	0°95	24044150		16314 Apr 15 06:19	0°II	25055142
evening max el	16313 May 17 11:59	4°9510'51	24°44'58	evening max el	16314 Apr 30 01:36	18° Ⅱ 03'39	25°57'42
retrograde	16313 May 29 05:51	11°502'10		retrograde	16314 May 12 17:17	25° Ⅲ 19'51	
asc. node	16313 May 30 15:07	10° © 54'06		asc. node	16314 May 17 12:14	23° Ⅱ 48'37	
evening set	16313 Jun 03 22:17	8° 9 37'46		evening set	16314 May 18 20:23	22° Ⅱ 48'46	
min. Earth dist.	16313 Jun 08 09:12	3° © 34'05	0.68483 AU	min. Earth dist.	16314 May 23 00:30	18° Ⅲ 21′21	0.67447 AU
inferior conj	16313 Jun 09 11:11	2° © 07'34	2°33'28	inferior conj	16314 May 24 15:33	16° Ⅱ 18'39	2°00'27
minimum elong	16313 Jun 09 09:13	2° © 14'09	2°32'21	minimum elong	16314 May 24 13:22	16° Ⅱ 25'33	1°59'10
	16313 Jun 11 02:20	30°R Ⅱ		morning rise	16314 May 30 07:01	10° Ⅲ 31′27	
morning rise	16313 Jun 14 20:22	26° Ⅱ 09'42		direct	16314 Jun 02 15:01	9° Ⅱ 28′04	
direct	16313 Jun 18 15:06	24° ∏ 47'40		morning max el	16314 Jun 09 06:31	13° Ⅱ 01'48	18°44'09
morning max el	16313 Jun 25 22:20	28° Ⅱ 50′06	19°36'59	desc. node	16314 Jun 19 03:12	25° Ⅱ 45'33	
	16313 Jun 27 01:34	0 \circ \odot			16314 Jun 21 23:00	0 \circ \odot	
desc. node	16313 Jul 02 06:08	6° © 18'56		greatest brilliancy	16314 Jun 23 10:44	2° © 16'23	-0.8m
greatest brilliancy	16313 Jul 08 18:32	15° 5 29'22	-0.6m	morning set	16314 Jul 01 07:01	14° © 25'50	
	16313 Jul 18 10:47	$0^{\circ}\Omega$			16314 Jul 11 07:00	$\mathfrak{O}^{\circ} \mathfrak{O}$	
morning set	16313 Jul 21 17:59	5° Ω 02'45		max. Earth dist.	16314 Jul 16 04:51	7° Ω 39'07	1.45905 AU
max. Earth dist.	16313 Aug 02 10:02	23° Ω 10′21	1.45106 AU				
	Č			superior conj	16314 Jul 17 09:54	9° Ω 32'29	-2°14'22
superior conj	16313 Aug 06 20:26	0° m 12'30	-2°04'26	minimum elong	16314 Jul 17 09:59	9° Ω 32'49	2°14'56
minimum elong	16313 Aug 07 03:02	0° mp 38'54	2°04'27	Č	16314 Jul 30 09:29	0° m)	
	16313 Aug 06 17:18	0° m)		evening rise	16314 Aug 01 21:01	3° m/ 57'23	
evening rise	16313 Aug 20 19:02	23° m/03'50		asc. node	16314 Aug 13 12:05	22° m/ 19'01	
e vennig rise	16313 Aug 24 22:30	0ಂ ರ		use. Houe	16314 Aug 18 22:04	0∘ ت	
asc. node	16313 Aug 26 15:23	ა _ 2° ჲ 49'47		evening max el	16314 Aug 22 10:08	ა _ 4° ჲ 01'26	18031'57
evening max el	16313 Sep 07 20:29	20° ⊆ 17'52	18°07'45	retrograde	16314 Aug 28 21:37	7° £ 30'17	16 31 37
•	-	20 □ 1732 23° □ 38'30	10 0/43	-	-	6° £ 34'09	
retrograde	16313 Sep 14 05:13			evening set	16314 Sep 01 01:17	0° ⊆ 57'47	2014/51
evening set	16313 Sep 16 23:39	22° Ω 58'02	1920110	inferior conj	16314 Sep 06 18:45		
inferior conj	16313 Sep 23 03:30	17° Ω 36'55	1°28'19	minimum elong	16314 Sep 06 21:02	0° ჲ 50'51	2°14'12
minimum elong	16313 Sep 23 05:35	17° Ω 31'10	1°27'46	min T d U :	16314 Sep 07 13:44	30°RM)	0.65500 411
min. Earth dist.	16313 Sep 25 17:46	14° Ω 45'51	0.63525 AU	min. Earth dist.	16314 Sep 08 19:38	28° TD 30'01	0.65500 AU
desc. node	16313 Sep 28 03:34	12° £ 23'42		morning rise	16314 Sep 12 15:34	24° m 33'34	
morning rise	16313 Sep 29 09:28	11° Ω 22'02		desc. node	16314 Sep 15 00:54	22° m 57'05	
direct	16313 Oct 06 00:50	8° ≏ 51'01		direct	16314 Sep 19 01:07	21° m 56'36	
morning max el	16313 Oct 19 22:10	16° ₽ 49'34	27°45'09	morning max el	16314 Oct 02 09:17	29° m 46'39	26°59'11
	16313 Oct 30 21:16	0° M .			16314 Oct 02 14:34	0∘ ত	
	16313 Nov 18 10:00	0° ∡ ¹			16314 Oct 24 19:34	0° M	
asc. node	16313 Nov 22 16:17	8° ∡ 11'50		morning set	16314 Nov 07 00:54	23°M21'56	

aca mada	16214 Nov. 00, 12:10	28°M16'42			16215 Cap. 20. 12:26	0∘ ত	
asc. node	16314 Nov 09 13:10 16314 Nov 10 09:51	28 1161042 0° x 7			16315 Sep 28 13:36 16315 Oct 17 12:49	0°M	
max. Earth dist.	16314 Nov 11 05:02	1° ∡ 36'39	1.33609 AU	morning set	16315 Oct 20 19:16	5°M52'25	
max. Lattii dist.	103141(0) 11 03.02	1 🗡 3037	1.55007 AC	max. Earth dist.	16315 Oct 24 10:49	12°M41'41	1.35555 AU
superior conj	16314 Nov 15 13:52	10° ∡ '39'24	0°52'50	asc. node	16315 Oct 27 09:58	18°M26'56	1.55555 710
minimum elong	16314 Nov 15 11:35	10° × 27'21	0°53'04	use. Houe	10313 000 27 07.30	10 1102030	
evening rise	16314 Nov 22 18:05	25° × 58'27	0 33 0 1	superior conj	16315 Oct 30 07:59	24°M16'53	0°26'12
e vennig rise	16314 Nov 24 16:03	0°중		minimum elong	16315 Oct 30 06:30	24°ML09'27	
desc. node	16314 Dec 11 22:49	28° る 26'16		g	16315 Nov 02 03:03	0° ₹	0 20 20
	16314 Dec 13 11:21	0° ≈		evening rise	16315 Nov 07 01:47	10° х 15′24	
evening max el	16314 Dec 13 08:08	29° る 52'09	21°49'09		16315 Nov 17 11:16	0°중	
retrograde	16314 Dec 25 16:22	5° ≈ 58'10		evening max el	16315 Nov 25 06:55	10° る 21'26	20°20'57
evening set	16314 Dec 28 22:31	5° ≈ 34'23		desc. node	16315 Nov 28 19:53	13° る 19'01	
inferior conj	16315 Jan 06 12:34	1° ≈ 44'18	-5°59'37	retrograde	16315 Dec 06 03:18	15° る 45'24	
minimum elong	16315 Jan 06 09:35	1° ≈ 48′28	5°58'50	evening set	16315 Dec 08 10:03	15° ට 32'11	
min. Earth dist.	16315 Jan 06 12:37	1° ≈ 44'14	0.54389 AU	inferior conj	16315 Dec 17 05:06	11° る 37'00	-5°11'17
	16315 Jan 09 17:30	30°Ŗ⋜		minimum elong	16315 Dec 16 19:35	11° る 51'01	5°08'27
morning rise	16315 Jan 14 21:21	27° る 56'34		min. Earth dist.	16315 Dec 18 18:11	10° ප 42'21	0.54700 AU
direct	16315 Jan 18 12:01	27° る 27'59		morning rise	16315 Dec 25 04:37	7° る 35'59	
	16315 Jan 26 13:26	0° ≈		direct	16315 Dec 29 21:11	6° る 48'33	
morning max el	16315 Jan 30 23:47	3° ≈ 31'14	22°04'33	morning max el	16316 Jan 12 09:46	13° る 27'59	23°53'47
asc. node	16315 Feb 05 11:59	9° ≈ 51'16		asc. node	16316 Jan 23 09:14	27° පි 25'01	
	16315 Feb 17 08:41	0° ∀			16316 Jan 24 23:32	0° ≈ ≈	
morning set	16315 Feb 21 04:28	7° ¥ 53'31		morning set	16316 Feb 05 16:25	22° ≈ 36'40	
					16316 Feb 09 02:06	0°)	
superior conj	16315 Feb 28 06:44	22°) € 59'34	1°15'39				
minimum elong	16315 Feb 28 09:07	23°) 12′06	1°15'29	superior conj	16316 Feb 12 12:05	7°) €27'58	1°29'15
	16315 Mar 03 15:37	0° Y		minimum elong	16316 Feb 12 13:48	7° ∺ 37'17	1°29'25
max. Earth dist.	16315 Mar 04 08:11	1° Y 24'22	1.34256 AU	max. Earth dist.	16316 Feb 15 04:45	13° ¥ 16′23	1.32690 AU
evening rise	16315 Mar 08 15:27	9° Ƴ 54'48		evening rise	16316 Feb 20 03:51	23° ∺ 33'36	
desc. node	16315 Mar 09 23:28	12° Y ′27′20			16316 Feb 23 10:39	0° Υ	
	16315 Mar 19 22:32	0°B		desc. node	16316 Feb 24 20:10	2° Y 38'34	
	16315 Apr 10 21:13	0°Щ			16316 Mar 12 13:42	0°8	
evening max el	16315 Apr 12 15:28	1° Ⅱ 46'36	26°54'56	evening max el	16316 Mar 25 04:21	15° 8 08'01	27°29'28
retrograde	16315 Apr 25 23:02	9° Ⅱ 15'49		retrograde	16316 Apr 07 22:15	22° 8 40'37	
evening set	16315 May 02 11:07	6° Ⅱ 43'34		evening set	16316 Apr 14 16:16	20° 8 13'55	0.64146.477
asc. node	16315 May 04 09:23	5° Ⅱ 00'09	0.65056.433	min. Earth dist.	16316 Apr 18 11:21	16° 8 51'35	0.64116 AU
min. Earth dist.	16315 May 06 09:51	2° Ⅱ 50'31	0.65976 AU	asc. node	16316 Apr 20 06:36	14° 8 58'22	0016110
inferior conj	16315 May 08 13:53	0° Ⅱ 19'27	1°15'08	inferior conj	16316 Apr 21 03:28	14° 8 02'59	
minimum elong	16315 May 08 12:06	0° Ⅱ 24'37	1°13′58	minimum elong	16316 Apr 21 03:00	14° 8 04'13	
	16315 May 08 20:34 16315 May 14 14:28	30°R 8		transit middle	16316 Apr 21 03:00	14° 8 04'13	0°15'42
morning rise direct	,	24° 8 44'42 23° 8 57'57		transit begin transit end	16316 Apr 21 02:25 16316 Apr 21 03:35	14° 8 05'45 14° 8 02'41	
morning max el	16315 May 17 12:38 16315 May 23 20:24	23 8 3737 27° 8 15'56	10000100	morning rise	16316 Apr 27 16:01	8° 8 42'54	
morning max er	16315 May 26 08:22	0°Ⅱ	18 08 00	direct	16316 Apr 30 05:15	8° 8 10'02	
desc. node	16315 Jun 06 00:12	15° Ⅱ 36'47		morning max el	16316 May 06 13:36	11° 8 24'48	17°49'07
morning set	16315 Jun 11 20:03	24° I I58'59		morning max cr	16316 May 19 10:56	0°Ⅱ	17 4707
morning sec	16315 Jun 14 22:54	0°95		desc. node	16316 May 22 21:10	5° Ⅱ 45'45	
	10310 0411 11 22.01	• •		morning set	16316 May 23 12:17	6° ∏ 49'28	
superior conj	16315 Jun 26 19:38	18° 5 48'32	-2°04'14	<i>3</i>		_ , _ ,	
minimum elong	16315 Jun 26 12:44	18° © 21'30	2°04'31	superior conj	16316 Jun 05 18:21	28° Ⅱ 44'24	-1°37'17
max. Earth dist.	16315 Jun 29 01:38	22° © 19'36	1.45953 AU	minimum elong	16316 Jun 05 09:56		1°37'05
	16315 Jul 03 23:57	$0^{\circ}\Omega$		Č	16316 Jun 06 13:10	0° ©	
evening rise	16315 Jul 12 22:55	13° Ω 52'13		max. Earth dist.	16316 Jun 10 21:21	6°\$54'26	1.45252 AU
C	16315 Jul 23 11:20	0° m		evening rise	16316 Jun 21 10:30	23° © 16'37	
greatest brilliancy	16315 Jul 24 17:50	1° m 54'31	-0.7m	C	16316 Jun 25 20:38	$0^{\circ}\Omega$	
asc. node	16315 Jul 31 08:50	11° m 23'38		asc. node	16316 Jul 17 05:37	29° Ω 55′21	
evening max el	16315 Aug 05 19:48	17° m 52'39	19°12'59		16316 Jul 17 07:17	0° m)	
retrograde	16315 Aug 12 18:33	21°M/42'48		evening max el	16316 Jul 18 23:46	1° Mp 46'47	20°09'30
evening set	16315 Aug 16 07:58	20° m 29'22		retrograde	16316 Jul 26 17:31	6° ™ 10'09	
inferior conj	16315 Aug 21 18:27	14° m 39'27	2°45'35	evening set	16316 Jul 30 17:16	4° ™ 38'53	
minimum elong	16315 Aug 21 20:15	14° m 33'36	2°45'02		16316 Aug 03 23:13	30°R Ω	
min. Earth dist.	16315 Aug 23 05:18	12°M)46'17	0.67102 AU	inferior conj	16316 Aug 04 23:50	28° Ω 36′54	3°02'50
morning rise	16315 Aug 27 07:51	8° Mp 12'32		minimum elong	16316 Aug 05 00:49	28° € 33'35	3°02'20
desc. node	16315 Sep 01 22:15	5°M 38'39		min. Earth dist.	16316 Aug 05 20:54	27° Ω 25′13	0.68266 AU
direct	16315 Sep 02 08:14	5° Mg 37′58		morning rise	16316 Aug 10 07:59	22° Ω 12'01	
morning max el	16315 Sep 14 20:45	13° Mp 05'34	25°49'20	direct	16316 Aug 15 21:18	19° Ω 46'42	

desc. node	16316 Aug 18 19:36	20° Ω 20'49		morning rise	16317 Jul 25 13:47	6° Ω 25'14	
morning max el	16316 Aug 27 07:51	26° Ω 37'27	24°25'06	direct	16317 Jul 30 15:10	4° Ω 14'22	
	16316 Aug 30 11:02	O° m p		desc. node	16317 Aug 05 16:55	6° Ω 40'16	
	16316 Sep 21 03:18	0∘ ⊽		morning max el	16317 Aug 09 19:31	10° Ω 16'45	22°55'51
morning set	16316 Oct 01 19:50	17° ≏ 36'29			16317 Aug 25 10:17	0° mp	
max. Earth dist.	16316 Oct 05 10:14	23° ≏ 57'59	1.37853 AU	morning set	16317 Sep 12 22:27	28° mp 24'03	
	16316 Oct 08 17:25	0° M .		•	16317 Sep 13 21:40	0∘ ত	
				max. Earth dist.	16317 Sep 17 09:24	5° ≏ 52'08	1.40272 AU
superior conj	16316 Oct 12 14:50	7° ™ 22'14	-0°05'57		1		
minimum elong	16316 Oct 12 15:12	7° ™ 24'01	0°05'31	superior conj	16317 Sep 25 06:22	19° ≏ 45'42	-0°41'59
behind sun begin	16316 Oct 12 08:46	6°M53'03		minimum elong	16317 Sep 25 09:38	20° ჲ 00'33	0°41'16
behind sun end	16316 Oct 12 21:38	7° ™ 55'04		asc. node	16317 Sep 30 03:28	28° ≏ 49'01	
asc. node	16316 Oct 13 06:44	8°M39'04			16317 Sep 30 18:30	0°M	
evening rise	16316 Oct 21 04:35	24°M18'44		evening rise	16317 Oct 04 23:25	8°M00'17	
	16316 Oct 24 01:40	0° ⊼		*	16317 Oct 17 16:58	0° ⊼	
evening max el	16316 Nov 06 20:21	21° х 40'30	19°14'08	evening max el	16317 Oct 20 22:16	3° х 47'49	18°29'39
desc. node	16316 Nov 14 17:00	26° ₹ 12'55		retrograde	16317 Oct 28 19:28	7° ∡ 747'50	
retrograde	16316 Nov 16 02:09	26° ₹ 18'56		evening set	16317 Oct 30 18:42	7° х ³33'38	
evening set	16316 Nov 17 23:45	26° ₹ 08'00		desc. node	16317 Nov 01 14:12	6° ₹ 57'07	
inferior conj	16316 Nov 26 11:36	21° × 57'19	-3°40'14	inferior conj	16317 Nov 07 15:02	3° ∡ 02'13	-1°56'44
minimum elong	16316 Nov 26 02:46	22°×12'05		minimum elong	16317 Nov 07 10:25	3°×11'13	
min. Earth dist.	16316 Nov 29 03:48	20°×10'12	0.55893 AU	min. Earth dist.	16317 Nov 10 19:56	0° ∡ 1115	0.57750 AU
morning rise	16316 Dec 04 03:22	17° ₹ 25'34	0.55675 AO	iiiii. Lartii dist.	16317 Nov 10 15:50	30°RM	0.57750 AC
direct	16316 Dec 04 03:22	16° × 13'35		morning rise	16317 Nov 14 22:45	27°M53'48	
morning max el	16316 Dec 23 19:04	23° × ⁷ 22'01	25°39'23	direct	16317 Nov 21 04:40	26°M14'46	
morning max cr	16316 Dec 29 18:17	23 × 22 01 0°る	23 39 23	direct	16317 Dec 01 00:23	0° √	
asc. node	16317 Jan 09 06:27	0 る 15° る 48'39		marning may al	16317 Dec 01 00.23 16317 Dec 05 10:40	0 x . 3° x 45'33	27°02'23
asc. node		0°≈		morning max el		0°る	27 02 23
	16317 Jan 16 17:30			4-	16317 Dec 24 11:30	0 る 4° る 49'11	
morning set	16317 Jan 20 03:58	7° ≈ 14'26		asc. node	16317 Dec 27 03:36		
	16217 1 26 21 22	22004127	1027120	morning set	16318 Jan 04 13:24	21° る 42'06	
superior conj	16317 Jan 26 21:23	22°≈04'37			16318 Jan 08 08:24	0° ≈	
minimum elong	16317 Jan 26 22:09	22°≈08'48	1°37'05		1/210 1 11 00 27	60 - 4212.4	1027157
max. Earth dist.	16317 Jan 28 07:50	25°≈15'08	1.31608 AU	superior conj	16318 Jan 11 08:37	6°≈43'34	
	16317 Jan 30 11:54	0°){		minimum elong	16318 Jan 11 08:19	6°≈41'52	1°38'32
evening rise	16317 Feb 03 01:05	7°) (32'46		max. Earth dist.	16318 Jan 11 14:50	7°≈18'22	1.31047 AU
desc. node	16317 Feb 10 16:53	22°) 33′02 0° °		evening rise	16318 Jan 18 04:42	21° ≈ 46'33	
	16317 Feb 14 22:08		2502 425		16318 Jan 22 04:06	0°) {	
evening max el	16317 Mar 07 14:26	27° Y 55'53	27°34'35	desc. node	16318 Jan 28 13:38	12°) €04'12	
	16317 Mar 09 21:32	0°8			16318 Feb 09 02:48	0°Υ ••••••	25005122
retrograde	16317 Mar 21 13:59	5° 8 23'59		evening max el	16318 Feb 17 19:24	9° Υ 59'37	27°05'33
evening set	16317 Mar 28 09:15	3° 8 10'32		retrograde	16318 Mar 03 20:32	17° Y 17'17	
min. Earth dist.	16317 Apr 01 03:32	0° 8 12'50	0.61972 AU	evening set	16318 Mar 10 11:03	15° Y 24'26	
	16317 Apr 01 09:13	30°₹ Υ		min. Earth dist.	16318 Mar 14 09:42	12° Y 42'29	0.59709 AU
inferior conj	16317 Apr 04 05:06	27° Y ′20'57		inferior conj	16318 Mar 17 15:09	10° Y ′04'21	
minimum elong	16317 Apr 04 07:04	27° Y 16′21	0°56'09	minimum elong	16318 Mar 17 20:34	9° Y 53'16	2°20'11
asc. node	16317 Apr 07 03:54	24° Y 44'26		morning rise	16318 Mar 25 09:40	5°Υ20'58	
morning rise	16317 Apr 11 08:02	22°Υ18'00		asc. node	16318 Mar 25 01:14	5°Υ26'45	
direct	16317 Apr 13 13:38	21°Υ55'38	150 1515 1	direct	16318 Mar 27 09:53	5°Υ05'28	10005110
morning max el	16317 Apr 20 07:01	25° Y 19′02	17°47'54	morning max el	16318 Apr 03 21:13	8° Ƴ 48'47	18°05'19
	16317 Apr 24 05:27	0° 8			16318 Apr 17 15:08	0°8	
morning set	16317 May 06 03:17	19° 8 43'33		morning set	16318 Apr 19 11:14	3° 8 24'14	
desc. node	16317 May 09 18:02	26° 8 06'39		desc. node	16318 Apr 26 14:50	16° 8 35'15	
	16317 May 11 23:23	$\Pi^{\circ}0$					
				superior conj	16318 Apr 29 11:08	21° 8 41'39	
superior conj	16317 May 17 15:12	9° Ⅱ 41'44		minimum elong	16318 Apr 29 09:11	21° 8 32'59	0°23'36
minimum elong	16317 May 17 09:36	9° Ⅱ 18'07			16318 May 04 05:31	0°П	
max. Earth dist.	16317 May 24 13:30		1.43885 AU	max. Earth dist.	16318 May 07 01:20	4° Ⅱ 46'31	1.42000 AU
	16317 May 30 03:42	0° ©		evening rise	16318 May 12 06:03	13° Ⅱ 17'02	
evening rise	16317 Jun 01 00:17	2° © 53'39			16318 May 23 01:46	0°©	2202====
	16317 Jun 19 07:43	0°N	2101000	evening max el	16318 Jun 14 14:51	29° © 36'09	22°37'28
evening max el	16317 Jul 01 21:42	15° Ω 41'04	21°19'03	_	16318 Jun 15 00:32	0°N	
asc. node	16317 Jul 04 02:30	17° Ω 42'25		asc. node	16318 Jun 20 23:26	4°Ω30'28	
retrograde	16317 Jul 10 16:23	20° Ω 46′08		retrograde	16318 Jun 24 13:36	5° Ω 25'37	
evening set	16317 Jul 15 03:08	18° Ω 57'25		evening set	16318 Jun 29 11:53	3° Ω 20'51	
inferior conj	16317 Jul 20 08:34	12° Ω 44'50	3°08'19		16318 Jul 02 13:25	30° ₹ ∽	
minimum elong	16317 Jul 20 08:35	12° Ω 44'46	3°07'45	inferior conj	16318 Jul 04 18:35	26°\$59'26	3°03'02
min. Earth dist.	16317 Jul 20 16:15	12° Ω 18'04	0.68962 AU	minimum elong	16318 Jul 04 17:41	27° © 02'34	3°02'18

min. Earth dist.	16318 Jul 04 13:09	27° © 18'22	0.69171 AU	minimum elong	16319 Jun 19 02:17	11° 5 21'36	2°46'21
morning rise	16318 Jul 09 23:20	20°547'17		morning rise	16319 Jun 24 10:46	5° © 12'40	
direct	16318 Jul 14 12:36	18°954'20		direct	16319 Jun 28 12:08	3° 5 39'19	
morning max el	16318 Jul 23 10:30	24°504'44	21°30'07	morning max el	16319 Jul 06 07:32	8°503'09	20°14'20
desc. node	16318 Jul 23 14:10	24°513'56		desc. node	16319 Jul 10 11:20	12° 5 42'13	
	16318 Jul 28 16:05	$0^{\circ}\Omega$			16319 Jul 22 23:13	$0^{\circ}\Omega$	
	16318 Aug 18 18:41	0° m)		morning set	16319 Aug 03 09:43	17° Ω 15′02	
morning set	16318 Aug 24 01:19	8° m) 11'55			16319 Aug 11 13:53	0° m y	
max. Earth dist.	16318 Aug 30 14:06	18° m 41'43	1.42524 AU	max. Earth dist.	16319 Aug 13 01:48	2° m 22'40	1.44339 AU
	16318 Sep 06 08:01	0∘ ⊽					
				superior conj	16319 Aug 18 23:03	11° m 52'50	-1°50'54
superior conj	16318 Sep 07 02:16	1° ≏ 18′20	-1°18'47	minimum elong	16319 Aug 19 06:57	12° m 25'10	1°50'29
minimum elong	16318 Sep 07 08:44	1° ≏ 46'14	1°17'57		16319 Aug 29 18:04	0∘ ⊽	
asc. node	16318 Sep 17 00:11	18° ≏ 53'30		evening rise	16319 Aug 31 20:56	3° ≏ 38'46	
evening rise	16318 Sep 18 06:29	21° ≏ 11'02		asc. node	16319 Sep 03 20:54	8° ≏ 48'39	
	16318 Sep 23 03:56	0°M		evening max el	16319 Sep 17 22:43	29° ≏ 50'42	18°01'49
evening max el	16318 Oct 04 08:27	16°MJ34'34	18°06'02		16319 Sep 18 02:31	0° M.	
retrograde	16318 Oct 11 07:20	20°ML08'42		retrograde	16319 Sep 24 09:52	3° M ₁2'39	
evening set	16318 Oct 13 12:51	19° M 47'02		evening set	16319 Sep 26 23:20	2°M39'54	
desc. node	16318 Oct 19 11:27	15° M 57'29			16319 Sep 30 20:51	30° ₽ Ω	
inferior conj	16318 Oct 20 15:45	14°M54'16	-0°22'33	inferior conj	16319 Oct 03 10:38	27° ≏ 28'06	0°53'24
minimum elong	16318 Oct 20 14:59	14°M56'00	0°21'49	minimum elong	16319 Oct 03 12:07	27° ≏ 24'16	0°53'07
min. Earth dist.	16318 Oct 23 20:38	12°ML01'05	0.59974 AU	desc. node	16319 Oct 06 08:42	24° ≏ 27'53	
morning rise	16318 Oct 27 13:53	9° M ₊12'57		min. Earth dist.	16319 Oct 06 07:26	24° ≏ 31'03	0.62264 AU
direct	16318 Nov 03 04:25	7°ML09'02		morning rise	16319 Oct 09 22:24	21° ≏ 22'34	
morning max el	16318 Nov 17 10:29	14°M56'06	27°49'46	direct	16319 Oct 16 14:54	18° ≏ 59'28	
	16318 Nov 29 15:58	0° ∡ ¹		morning max el	16319 Oct 30 17:04	26° ≏ 56′21	27°57'37
asc. node	16318 Dec 14 00:39	24° ∡ 16′25			16319 Nov 02 14:40	0° M	
	16318 Dec 16 22:12	0°ರ			16319 Nov 23 08:06	0° ∡ ¹	
morning set	16318 Dec 19 18:44	5° る 54'12		asc. node	16319 Nov 30 21:37	14° ∡ °03′03	
max. Earth dist.	16318 Dec 25 22:07	19° る 17'35	1.31036 AU	morning set	16319 Dec 03 17:57	19° ∡ ¹46'32	
					16319 Dec 08 14:02	ರ∘ರ	
superior conj	16318 Dec 26 19:48	21° る 18'39	1°33'13	max. Earth dist.	16319 Dec 09 01:56	1° る 04'36	1.31590 AU
minimum elong	16318 Dec 26 18:30	21° る 11'25	1°33'48				
	16318 Dec 30 17:11	0° ≈ ≈		superior conj	16319 Dec 11 05:07	5° る 45′17	1°22'25
evening rise	16319 Jan 02 12:32	6° ≈ 08'53		minimum elong	16319 Dec 11 03:04	5° ರ 34'00	1°22'52
	10517 0411 02 12.52			minimum ciong	10317 DCC 11 03.04	3 3700	1 22 32
	16319 Jan 14 19:33	0° ∀		evening rise	16319 Dec 17 03:04	20° る 35'43	1 22 32
desc. node				_			1 22 32
desc. node evening max el	16319 Jan 14 19:33	0° ∀	26°01'49	_	16319 Dec 17 22:44	20° る 35'43	1 22 02
	16319 Jan 14 19:33 16319 Jan 15 10:26	0° ∺ 1° ∺ 02'21	26°01'49	evening rise	16319 Dec 17 22:44 16319 Dec 22 10:16	20° ට 35'43 0°≈	1 22 92
evening max el	16319 Jan 14 19:33 16319 Jan 15 10:26 16319 Jan 30 16:36	0° \ 1° \ 02'21 21° \ 10'02	26°01'49	evening rise	16319 Dec 17 22:44 16319 Dec 22 10:16 16320 Jan 02 07:17	20° ප් 35'43 0°≈ 19°≈15'44	
evening max el retrograde	16319 Jan 14 19:33 16319 Jan 15 10:26 16319 Jan 30 16:36 16319 Feb 13 15:37	0° 	26°01'49 0.57545 AU	evening rise desc. node	16319 Dec 17 22:44 16319 Dec 22 10:16 16320 Jan 02 07:17 16320 Jan 10 17:06	20° ි 35'43 0° ක 19° ක15'44 0° ා	
evening max el retrograde evening set	16319 Jan 14 19:33 16319 Jan 15 10:26 16319 Jan 30 16:36 16319 Feb 13 15:37 16319 Feb 19 17:57	0°¥ 1°¥02'21 21°¥10'02 28°¥14'22 26°¥47'10	0.57545 AU	evening rise desc. node evening max el	16319 Dec 17 22:44 16319 Dec 22 10:16 16320 Jan 02 07:17 16320 Jan 10 17:06 16320 Jan 12 05:26	20°る35'43 0°≈ 19°≈15'44 0°升 1°升30'52	
evening max el retrograde evening set min. Earth dist.	16319 Jan 14 19:33 16319 Jan 15 10:26 16319 Jan 30 16:36 16319 Feb 13 15:37 16319 Feb 19 17:57 16319 Feb 24 05:43	0°₩ 1°₩02'21 21°₩10'02 28°₩14'22 26°₩47'10 24°₩08'55 22°₩01'40	0.57545 AU	desc. node evening max el retrograde	16319 Dec 17 22:44 16319 Dec 22 10:16 16320 Jan 02 07:17 16320 Jan 10 17:06 16320 Jan 12 05:26 16320 Jan 25 21:38	20°♂35'43 0°≈ 19°≈15'44 0°¥ 1°¥30'52 8°¥19'54 7°¥20'10 4°¥29'13	24°30′23 0.55755 AU
evening max el retrograde evening set min. Earth dist. inferior conj	16319 Jan 14 19:33 16319 Jan 30 16:36 16319 Feb 13 15:37 16319 Feb 19 17:57 16319 Feb 24 05:43 16319 Feb 27 05:51 16319 Feb 27 14:35 16319 Mar 07 14:22	0°₩ 1°₩02'21 21°₩10'02 28°₩14'22 26°₩47'10 24°₩08'55 22°₩01'40	0.57545 AU -3°53'39	desc. node evening max el retrograde evening set	16319 Dec 17 22:44 16319 Dec 22 10:16 16320 Jan 02 07:17 16320 Jan 10 17:06 16320 Jan 12 05:26 16320 Jan 25 21:38 16320 Jan 31 02:47	20°₹35'43 0°≈ 19°≈15'44 0°¥ 1°¥30'52 8°¥19'54 7°¥20'10	24°30′23 0.55755 AU
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	16319 Jan 14 19:33 16319 Jan 15 10:26 16319 Jan 30 16:36 16319 Feb 13 15:37 16319 Feb 19 17:57 16319 Feb 24 05:43 16319 Feb 27 05:51 16319 Feb 27 14:35	0°₩ 1°₩02'21 21°₩10'02 28°₩14'22 26°₩47'10 24°₩08'55 22°₩01'40 21°₩46'14	0.57545 AU -3°53'39	desc. node evening max el retrograde evening set min. Earth dist.	16319 Dec 17 22:44 16319 Dec 22 10:16 16320 Jan 02 07:17 16320 Jan 10 17:06 16320 Jan 12 05:26 16320 Jan 25 21:38 16320 Jan 31 02:47 16320 Feb 05 17:17	20°♂35'43 0°≈ 19°≈15'44 0°¥ 1°¥30'52 8°¥19'54 7°¥20'10 4°¥29'13	24°30'23 0.55755 AU -5°14'47
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	16319 Jan 14 19:33 16319 Jan 30 16:36 16319 Feb 13 15:37 16319 Feb 19 17:57 16319 Feb 24 05:43 16319 Feb 27 05:51 16319 Feb 27 14:35 16319 Mar 07 14:22	0°₩ 1°₩02'21 21°₩10'02 28°₩14'22 26°₩47'10 24°₩08'55 22°₩01'40 21°₩46'14 17°₩39'47	0.57545 AU -3°53'39	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	16319 Dec 17 22:44 16319 Dec 22 10:16 16320 Jan 02 07:17 16320 Jan 10 17:06 16320 Jan 12 05:26 16320 Jan 25 21:38 16320 Jan 31 02:47 16320 Feb 05 17:17 16320 Feb 07 23:10	20°♂35'43 0°≈ 19°≈15'44 0° ₩ 1° ₩30'52 8° ₩19'54 7° ₩20'10 4° ₩29'13 3° ₩06'09 2° ₩52'28 30° R≈	24°30'23 0.55755 AU -5°14'47
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	16319 Jan 14 19:33 16319 Jan 15 10:26 16319 Jan 30 16:36 16319 Feb 13 15:37 16319 Feb 19 17:57 16319 Feb 24 05:43 16319 Feb 27 05:51 16319 Feb 27 14:35 16319 Mar 07 14:22 16319 Mar 09 13:35	0°\times 10°\times 221 21°\times 10'02 28°\times 14'22 26°\times 47'10 24°\times 855 22°\times 10'40 21°\times 46'14 17°\times 27'22 17°\times 46'20 21°\times 41'23	0.57545 AU -3°53'39	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	16319 Dec 17 22:44 16319 Dec 22 10:16 16320 Jan 02 07:17 16320 Jan 10 17:06 16320 Jan 12 05:26 16320 Jan 25 21:38 16320 Jan 31 02:47 16320 Feb 05 17:17 16320 Feb 07 23:10 16320 Feb 08 08:02 16320 Feb 13 16:07 16320 Feb 16 15:24	20°♂35'43 0°≈ 19°≈15'44 0° ★ 1° ★30'52 8° ★19'54 7° ★20'10 4° ★29'13 3° ★06'09 2° ★52'28 30°R≈ 29°≈04'44	24°30'23 0.55755 AU -5°14'47
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	16319 Jan 14 19:33 16319 Jan 15 10:26 16319 Jan 30 16:36 16319 Feb 13 15:37 16319 Feb 19 17:57 16319 Feb 24 05:43 16319 Feb 27 05:51 16319 Feb 27 14:35 16319 Mar 07 14:22 16319 Mar 09 13:35 16319 Mar 11 22:34	0°\text{1°\text{10'02}} 21°\text{10'02} 28°\text{14'22} 26°\text{\text{46'14}} 24°\text{\text{46'14}} 17°\text{\text{46'14}} 17°\text{\text{46'20}} 21°\text{\text{46'23}} 0°\text{\text{60'\text{Y}}}	0.57545 AU -3°53'39 3°50'38	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	16319 Dec 17 22:44 16319 Dec 22 10:16 16320 Jan 02 07:17 16320 Jan 10 17:06 16320 Jan 12 05:26 16320 Jan 25 21:38 16320 Jan 31 02:47 16320 Feb 05 17:17 16320 Feb 07 23:10 16320 Feb 08 08:02 16320 Feb 13 16:07	20°♂35'43 0°≈ 19°≈15'44 0° ★ 1° ★30'52 8° ★19'54 7° ★20'10 4° ★29'13 3° ★06'09 2° ★52'28 30° ₹≈ 29°≈04'44 28°≈51'13	24°30'23 0.55755 AU -5°14'47
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	16319 Jan 14 19:33 16319 Jan 30 16:36 16319 Feb 13 15:37 16319 Feb 19 17:57 16319 Feb 24 05:43 16319 Feb 27 05:51 16319 Feb 27 14:35 16319 Mar 07 14:22 16319 Mar 09 13:35 16319 Mar 11 22:34 16319 Mar 18 04:08	0°\times 10°\times 221 21°\times 10'02 28°\times 14'22 26°\times 47'10 24°\times 855 22°\times 10'40 21°\times 46'14 17°\times 27'22 17°\times 46'20 21°\times 41'23	0.57545 AU -3°53'39 3°50'38	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	16319 Dec 17 22:44 16319 Dec 22 10:16 16320 Jan 02 07:17 16320 Jan 10 17:06 16320 Jan 12 05:26 16320 Jan 25 21:38 16320 Jan 31 02:47 16320 Feb 05 17:17 16320 Feb 07 23:10 16320 Feb 08 08:02 16320 Feb 13 16:07 16320 Feb 16 15:24	20°♂35'43 0°≈ 19°≈15'44 0° ₩ 1° ₩30'52 8° ₩19'54 7° ₩20'10 4° ₩29'13 3° ₩06'09 2° ₩52'28 30° №≈ 29°≈04'44 28°≈51'13 0° ₩	24°30'23 0.55755 AU -5°14'47
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	16319 Jan 14 19:33 16319 Jan 30 16:36 16319 Feb 13 15:37 16319 Feb 19 17:57 16319 Feb 24 05:43 16319 Feb 27 05:51 16319 Feb 27 14:35 16319 Mar 07 14:22 16319 Mar 09 13:35 16319 Mar 11 22:34 16319 Mar 18 04:08 16319 Mar 24 14:06	0°\text{1°\text{10'02}} 21°\text{10'02} 28°\text{14'22} 26°\text{\text{46'14}} 24°\text{\text{46'14}} 17°\text{\text{46'14}} 17°\text{\text{46'20}} 21°\text{\text{46'23}} 0°\text{\text{60'\text{Y}}}	0.57545 AU -3°53'39 3°50'38	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	16319 Dec 17 22:44 16319 Dec 22 10:16 16320 Jan 02 07:17 16320 Jan 10 17:06 16320 Jan 12 05:26 16320 Jan 25 21:38 16320 Jan 31 02:47 16320 Feb 05 17:17 16320 Feb 07 23:10 16320 Feb 08 08:02 16320 Feb 13 16:07 16320 Feb 16 15:24 16320 Feb 18 21:27	20°♂35'43 0°≈ 19°≈15'44 0° ★ 1° ★30'52 8° ★19'54 7° ★20'10 4° ★29'13 3° ★06'09 2° ★52'28 30° ₹≈ 29°≈04'44 28°≈51'13	24°30'23 0.55755 AU -5°14'47
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	16319 Jan 14 19:33 16319 Jan 30 16:36 16319 Feb 13 15:37 16319 Feb 19 17:57 16319 Feb 24 05:43 16319 Feb 27 05:51 16319 Feb 27 14:35 16319 Mar 07 14:22 16319 Mar 09 13:35 16319 Mar 11 22:34 16319 Mar 18 04:08 16319 Mar 24 14:06 16319 Apr 03 06:59	0°¥ 1°¥02'21 21°¥10'02 28°¥14'22 26°¥47'10 24°¥08'55 22°¥01'40 21°¥46'14 17°¥27'22 17°¥27'22 17°¥46'20 21°¥41'23 0°Y 17°Y35'26 0°8	0.57545 AU -3°53'39 3°50'38	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	16319 Dec 17 22:44 16319 Dec 22 10:16 16320 Jan 02 07:17 16320 Jan 10 17:06 16320 Jan 12 05:26 16320 Jan 25 21:38 16320 Jan 31 02:47 16320 Feb 05 17:17 16320 Feb 07 23:10 16320 Feb 08 08:02 16320 Feb 13 16:07 16320 Feb 16 15:24 16320 Feb 18 21:27 16320 Feb 23 19:19	20°♂35'43 0°≈ 19°≈15'44 0° ₩ 1° ₩30'52 8° ₩19'54 7° ₩20'10 4° ₩29'13 3° ₩06'09 2° ₩52'28 30° № 29°≈04'44 28°≈51'13 0° ₩ 1° ₩52'33 3° ₩45'20	24°30'23 0.55755 AU -5°14'47
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	16319 Jan 14 19:33 16319 Jan 30 16:36 16319 Feb 13 15:37 16319 Feb 19 17:57 16319 Feb 24 05:43 16319 Feb 27 05:51 16319 Feb 27 14:35 16319 Mar 07 14:22 16319 Mar 09 13:35 16319 Mar 11 22:34 16319 Mar 18 04:08 16319 Mar 24 14:06 16319 Apr 03 06:59	0°¥ 1°¥02'21 21°¥10'02 28°¥14'22 26°¥47'10 24°¥08'55 22°¥01'40 21°¥46'14 17°¥27'22 17°¥46'20 21°¥41'23 0°Y 17°Y35'26 0°B 4°♥33'40	0.57545 AU -3°53'39 3°50'38	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	16319 Dec 17 22:44 16319 Dec 22 10:16 16320 Jan 02 07:17 16320 Jan 10 17:06 16320 Jan 12 05:26 16320 Jan 25 21:38 16320 Jan 31 02:47 16320 Feb 05 17:17 16320 Feb 07 23:10 16320 Feb 08 08:02 16320 Feb 13 16:07 16320 Feb 14 15:24 16320 Feb 18 21:27 16320 Feb 23 19:19 16320 Feb 26 19:51	20°♂35'43 0°≈ 19°≈15'44 0° H 1° H30'52 8° H19'54 7° H20'10 4° H29'13 3° H06'09 2° H52'28 30° R≈ 29°≈04'44 28°≈51'13 0° H 1° H52'33 3° H45'20 0° Y	24°30'23 0.55755 AU -5°14'47 5°12'31
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	16319 Jan 14 19:33 16319 Jan 30 16:36 16319 Feb 13 15:37 16319 Feb 19 17:57 16319 Feb 24 05:43 16319 Feb 27 05:51 16319 Feb 27 14:35 16319 Mar 07 14:22 16319 Mar 09 13:35 16319 Mar 11 22:34 16319 Mar 18 04:08 16319 Mar 24 14:06 16319 Apr 03 06:59 16319 Apr 09 16:49	0°¥ 1°¥02'21 21°¥10'02 28°¥14'22 26°¥47'10 24°¥08'55 22°¥01'40 21°¥46'14 17°¥27'22 17°¥27'22 17°¥46'20 21°¥41'23 0°Y 17°Y35'26 0°B 4°♥33'40 4°♥33'13	0.57545 AU -3°53'39 3°50'38	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	16319 Dec 17 22:44 16319 Dec 22 10:16 16320 Jan 02 07:17 16320 Jan 10 17:06 16320 Jan 12 05:26 16320 Jan 25 21:38 16320 Jan 31 02:47 16320 Feb 05 17:17 16320 Feb 07 23:10 16320 Feb 08 08:02 16320 Feb 13 16:07 16320 Feb 13 16:07 16320 Feb 16 15:24 16320 Feb 18 21:27 16320 Feb 23 19:19 16320 Feb 26 19:51 16320 Feb 28 23:37	20°♂35'43 0°≈ 19°≈15'44 0° ₩ 1° ₩30'52 8° ₩19'54 7° ₩20'10 4° ₩29'13 3° ₩06'09 2° ₩52'28 30° № 29°≈04'44 28°≈51'13 0° ₩ 1° ₩52'33 3° ₩45'20	24°30'23 0.55755 AU -5°14'47 5°12'31
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	16319 Jan 14 19:33 16319 Jan 30 16:36 16319 Feb 13 15:37 16319 Feb 19 17:57 16319 Feb 24 05:43 16319 Feb 27 05:51 16319 Feb 27 14:35 16319 Mar 07 14:22 16319 Mar 09 13:35 16319 Mar 11 22:34 16319 Mar 12 02:34 16319 Apr 03 06:59 16319 Apr 09 16:49 16319 Apr 12 02:39 16319 Apr 12 03:25 16319 Apr 11 22:25	0°¥ 1°¥02'21 21°¥10'02 28°¥14'22 26°¥47'10 24°¥08'55 22°¥01'40 21°¥46'14 17°¥39'47 17°¥27'22 17°¥46'20 21°¥41'23 0°Y 17°Y35'26 0°¥ 4°∀33'40 4°∀37'13 4°∀13'47	0.57545 AU -3°53'39 3°50'38 18°43'13	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	16319 Dec 17 22:44 16319 Dec 22 10:16 16320 Jan 02 07:17 16320 Jan 10 17:06 16320 Jan 12 05:26 16320 Jan 25 21:38 16320 Jan 31 02:47 16320 Feb 05 17:17 16320 Feb 07 23:10 16320 Feb 08 08:02 16320 Feb 13 16:07 16320 Feb 14 16:24 16320 Feb 15 12:27 16320 Feb 23 19:19 16320 Feb 26 19:51 16320 Feb 28 23:37 16320 Mar 16 09:39	20°♂35'43 0°≈ 19°≈15'44 0° ₩ 1° ₩30'52 8° ₩19'54 7° ₩20'10 4° ₩29'13 3° ₩06'09 2° ₩52'28 30° R≈ 29°≈04'44 28°≈51'13 0° ₩ 1° ₩52'33 3° ₩45'20 0° Ψ' 2° Ψ05'40	24°30'23 0.55755 AU -5°14'47 5°12'31 19°43'39
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evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise	16319 Jan 14 19:33 16319 Jan 30 16:36 16319 Feb 13 15:37 16319 Feb 19 17:57 16319 Feb 24 05:43 16319 Feb 27 05:51 16319 Feb 27 14:35 16319 Mar 07 14:22 16319 Mar 09 13:35 16319 Mar 11 22:34 16319 Mar 12 04:08 16319 Apr 03 06:59 16319 Apr 03 06:59 16319 Apr 12 02:39 16319 Apr 12 03:25 16319 Apr 12 03:25 16319 Apr 12 03:25 16319 Apr 12 08:24 16319 Apr 13 11:34 16319 Apr 19 09:13 16319 Apr 23 08:50 16319 Apr 26 15:11 16319 May 16 19:54 16319 May 28 05:07 16319 May 28 05:07	0°\text{1°\text{10'02}} 21°\text{10'02} 28°\text{14'22} 26°\text{14'710} 24°\text{10'8555} 22°\text{10'140} 21°\text{14'14} 17°\text{17'\text{17'} 17°\text{123} 0°\text{17'\text{17'} 17°\text{123} 0°\text{17'\text{13'} 4°\text{13'47} 5°\text{500'36} 7°\text{500'36} 7°\text{500'36} 7°\text{500'59} 17°\text{544'59} 24°\text{535'21} 0°\text{11} 0°\text{50} 13°\text{531'32} 20°\text{501'10}	0.57545 AU -3°53'39 3°50'38 18°43'13 0°11'33 0°11'06	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	16319 Dec 17 22:44 16319 Dec 22 10:16 16320 Jan 02 07:17 16320 Jan 10 17:06 16320 Jan 12 05:26 16320 Jan 25 21:38 16320 Jan 31 02:47 16320 Feb 05 17:17 16320 Feb 07 23:10 16320 Feb 13 16:07 16320 Feb 13 16:07 16320 Feb 16 15:24 16320 Feb 23 19:19 16320 Feb 26 19:51 16320 Feb 28 23:37 16320 Mar 16 09:39 16320 Mar 17 10:38 16320 Mar 25 09:27 16320 Mar 31 15:28 16320 Mar 31 15:28 16320 Mar 31 15:28 16320 Apr 04 07:57 16320 Apr 18 12:31 16320 May 09 18:28	20°♂35'43 0°≈ 19°≈15'44 0°ℋ 1°ℋ30'52 8°ℋ19'54 7°ℋ20'10 4°ℋ29'13 3°ℋ06'09 2°ℋ52'28 30°ℝ≈ 29°≈04'44 28°≈51'13 0°ℋ 1°ℋ52'33 3°ℋ45'20 0°Ƴ 2°♈05'40 18°℉06'01 18°℉06'01 18°℉16'44 27°℉38'24 0°℧03'46 0°℧ 6°℧44'42 0°ℿ 27°Ⅱ26'09	24°30'23 0.55755 AU -5°14'47 5°12'31 19°43'39 0°41'20 0°40'49 1.37486 AU
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde	16319 Jan 14 19:33 16319 Jan 30 16:36 16319 Feb 13 15:37 16319 Feb 19 17:57 16319 Feb 24 05:43 16319 Feb 27 05:51 16319 Feb 27 14:35 16319 Mar 07 14:22 16319 Mar 09 13:35 16319 Mar 11 22:34 16319 Mar 12 04:08 16319 Apr 03 06:59 16319 Apr 03 06:59 16319 Apr 12 02:39 16319 Apr 12 03:25 16319 Apr 12 03:25 16319 Apr 12 03:25 16319 Apr 12 08:24 16319 Apr 13 11:34 16319 Apr 19 09:13 16319 Apr 23 08:50 16319 Apr 26 15:11 16319 May 16 19:54 16319 May 28 05:07 16319 Jun 07 20:27 16319 Jun 07 20:27	0°\text{1°\text{302'21}} 21°\text{10'02} 28°\text{14'22} 26°\text{47'10} 24°\text{308'55} 22°\text{40'140} 21°\text{46'14} 17°\text{42'22} 17°\text{46'20} 21°\text{44'23} 0°\text{7'} 17°\text{735'26} 0°\text{833'40} 4°\text{833'40} 4°\text{837'13} 4°\text{813'47} 5°\text{800'36} 7°\text{800'36} 7°\text{806'59} 17°\text{84'59} 24°\text{835'21} 0°\text{1} 0°\text{1} 0°\text{9} 13°\text{\$35'21} 0°\text{1} 0°\text{\$13'\text{835'21}} 0°\text{\$13'\text{835'21}} 0°\text{\$13'\text{\$935'21}} 0°\text{\$13'\text{\$935'21}} 0°\text{\$13'\text{\$935'21}} 0°\text{\$13'\text{\$935'21}} 0°\text{\$13'\text{\$935'21}} 0°\text{\$13'\text{\$935'21}} 0°\text{\$13'\text{\$935'21}} 0°\text{\$935'21}	0.57545 AU -3°53'39 3°50'38 18°43'13 0°11'33 0°11'06	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	16319 Dec 17 22:44 16319 Dec 22 10:16 16320 Jan 02 07:17 16320 Jan 10 17:06 16320 Jan 12 05:26 16320 Jan 25 21:38 16320 Jan 31 02:47 16320 Feb 05 17:17 16320 Feb 07 23:10 16320 Feb 13 16:07 16320 Feb 13 16:07 16320 Feb 16 15:24 16320 Feb 23 19:19 16320 Feb 26 19:51 16320 Feb 28 23:37 16320 Mar 16 09:39 16320 Mar 17 10:38 16320 Mar 25 09:27 16320 Mar 30 08:17 16320 Mar 30 08:17 16320 Mar 31 15:28 16320 Mar 31 15:28 16320 Mar 31 14:40 16320 Apr 04 07:57 16320 Apr 18 12:31 16320 May 09 18:28 16320 May 09 18:28	20°♂35'43 0°≈ 19°≈15'44 0°ℋ 1°ℋ30'52 8°ℋ19'54 7°ℋ20'10 4°ℋ29'13 3°ℋ06'09 2°ℋ52'28 30°ℝ≈ 29°≈04'44 28°≈51'13 0°ℋ 1°ℋ52'33 3°ℋ45'20 0°℉ 2°℉06'01 18°℉06'01 18°℉06'01 18°℉16'44 27°℉38'24 0°ੴ 6°♂44'42 0°ੴ 6°♂44'42 0°Ⅲ 27°Ⅲ26'09 0°©	24°30'23 0.55755 AU -5°14'47 5°12'31 19°43'39 0°41'20 0°40'49 1.37486 AU
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set	16319 Jan 14 19:33 16319 Jan 30 16:36 16319 Feb 13 15:37 16319 Feb 19 17:57 16319 Feb 24 05:43 16319 Feb 27 05:51 16319 Feb 27 14:35 16319 Mar 07 14:22 16319 Mar 09 13:35 16319 Mar 11 22:34 16319 Mar 18 04:08 16319 Apr 03 06:59 16319 Apr 09 16:49 16319 Apr 12 02:39 16319 Apr 12 03:25 16319 Apr 12 03:25 16319 Apr 12 03:25 16319 Apr 12 08:24 16319 Apr 13 11:34 16319 Apr 19 09:13 16319 Apr 23 08:50 16319 Apr 23 08:50 16319 May 16 19:54 16319 May 28 05:07 16319 Jun 07 20:27 16319 Jun 08 07:48 16319 Jun 08 07:48 16319 Jun 08 07:48	0°\text{1°\text{802'21}} 21°\text{810'02} 28°\text{814'22} 26°\text{847'10} 24°\text{808'55} 22°\text{801'40} 21°\text{846'14} 17°\text{827'22} 17°\text{846'20} 21°\text{841'23} 0°\text{9'} 17°\text{935'26} 0°\text{833'40} 4°\text{833'40} 4°\text{837'13} 4°\text{813'47} 5°\text{800'36} 7°\text{806'59} 17°\text{84'59} 24°\text{835'21} 0°\text{1} 0°\text{9} 13°\text{\$931'32} 20°\text{\$901'10} 20°\text{\$902'07} 17°\text{\$943'43}	0.57545 AU -3°53'39 3°50'38 18°43'13 0°11'33 0°11'06 1.39789 AU 23°59'06	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	16319 Dec 17 22:44 16319 Dec 22 10:16 16320 Jan 02 07:17 16320 Jan 10 17:06 16320 Jan 12 05:26 16320 Jan 25 21:38 16320 Jan 31 02:47 16320 Feb 05 17:17 16320 Feb 07 23:10 16320 Feb 13 16:07 16320 Feb 13 16:07 16320 Feb 16 15:24 16320 Feb 23 19:19 16320 Feb 26 19:51 16320 Feb 28 23:37 16320 Mar 16 09:39 16320 Mar 17 10:38 16320 Mar 25 09:27 16320 Mar 25 09:27 16320 Mar 30 08:17 16320 Mar 31 15:28 16320 Mar 31 15:28 16320 Mar 31 15:28 16320 Mar 31 15:28 16320 Mar 18 12:31 16320 May 09 18:28 16320 May 12 13:31 16320 May 12 13:31 16320 May 21 22:04	20°♂35'43 0°≈ 19°≈15'44 0°ℋ 1°ℋ30'52 8°ℋ19'54 7°ℋ20'10 4°ℋ29'13 3°ℋ06'09 2°ℋ52'28 30°ℝ≈ 29°≈04'44 28°≈51'13 0°ℋ 1°ℋ52'33 3°ℋ45'20 0°Ƴ 2°♈05'40 18°℉06'01 18°℉06'01 18°℉16'44 27°℉38'24 0°℧3'46 0°℧44'42 0°Ⅱ 27°Ⅱ26'09 0°© 4°©29'19	24°30'23 0.55755 AU -5°14'47 5°12'31 19°43'39 0°41'20 0°40'49 1.37486 AU

	16320 May 29 20:14	30°R Ⅱ		min. Earth dist.	16321 May 15 16:08	11° Ⅱ 54'47	0.66868 AU
min. Earth dist.	16320 Jun 01 03:05	27° I I13'23	0.68107 AU	inferior conj	16321 May 17 12:51	9° П 38'34	1°42'49
inferior conj	16320 Jun 02 10:43	25° II 30'27	2°20'51	minimum elong	16321 May 17 10:45	9° Ⅱ 44'59	1°41'33
minimum elong	16320 Jun 02 08:36	25° I I37'23	2°19'40	morning rise	16321 May 23 07:52	3° II 56'34	
morning rise	16320 Jun 07 22:16	19° Ⅱ 37'14		direct	16321 May 26 11:27	3° Ⅱ 00'45	
direct	16320 Jun 11 12:20	18° Ⅲ 23′25		morning max el	16321 Jun 01 22:52	6° Ⅱ 26'30	18°26'43
morning max el	16320 Jun 18 11:52	22° Ⅱ 11'46	19°12'29	desc. node	16321 Jun 13 05:31	21° Ⅲ 29'42	
	16320 Jun 25 00:14	0 \circ \mathfrak{S}			16321 Jun 18 16:34	0ංම	
desc. node	16320 Jun 26 08:27	1° 9 50'59		morning set	16321 Jun 22 13:29	6° 5 06'13	
greatest brilliancy	16320 Jul 01 06:39	8° © 58'51	-0.7m		16321 Jul 07 19:20	$0^{\circ}\Omega$	
morning set	16320 Jul 12 15:17	26° © 15'30					
	16320 Jul 15 01:32	0 ° Ω		superior conj	16321 Jul 08 07:33	0° Ω 47'35	
max. Earth dist.	16320 Jul 25 18:42	16° Ω 38'51	1.45536 AU	minimum elong	16321 Jul 08 04:16	0° Ω 34'45	2°13'02
				max. Earth dist.	16321 Jul 08 14:22	1° Ω 14′08	1.46016 AU
superior conj	16320 Jul 28 21:36	21° Ω 33'19		evening rise	16321 Jul 24 04:47	25° Ω 37'25	
minimum elong	16320 Jul 29 01:59	21° Ω 50′37	2°11'20		16321 Jul 26 23:36	0° m)	
	16320 Aug 03 05:06	0° m)		greatest brilliancy	16321 Aug 02 01:15	9° m 29'04	-0.8m
evening rise	16320 Aug 12 13:25	15° m 09'38		asc. node	16321 Aug 07 14:20	17° m 49'37	
asc. node	16320 Aug 20 17:36	28° m/29'12		evening max el	16321 Aug 15 01:41	27° m 14'31	18°47'21
	16320 Aug 21 16:27	0∘ ⊽			16321 Aug 18 15:00	0∘ ⊽	
evening max el	16320 Aug 31 13:26	13° Ω 26'27	18°15'53	retrograde	16321 Aug 21 17:08	0° ≙ 51'09	
retrograde	16320 Sep 06 22:24	16° ₽ 49'20			16321 Aug 24 16:46	30°RM)	
evening set	16320 Sep 09 20:37	16° ♀ 02'32	1050100	evening set	16321 Aug 25 00:46	29° Mp 48'00	2020120
inferior conj minimum elong	16320 Sep 15 19:36	10° Ω 34'30	1°50'09 1°49'31	inferior conj	16321 Aug 30 14:53	24° Mp 05'48	2°29'38
U	16320 Sep 15 21:52	10° Ω 27'55		minimum elong	16321 Aug 30 17:01	23° My 59'05	2°29'01
min. Earth dist.	16320 Sep 18 04:16	7° £ 51'39 4° £ 14'24	0.64400 AU	min. Earth dist.	16321 Sep 01 09:53	21° Mp 51'20	0.66233 AU
morning rise desc. node	16320 Sep 21 21:27 16320 Sep 22 06:02	3° Ω 57'52		morning rise desc. node	16321 Sep 05 08:17 16321 Sep 09 03:21	17° Mp 39'29 15° Mp 25'34	
direct	16320 Sep 22 00:02 16320 Sep 28 10:38	1° 2 39'57		direct	16321 Sep	15° Mp 02'20	
morning max el	16320 Oct 12 03:30	9° £ 37'02	27°29'09	morning max el	16321 Sep 24 15:02	22° mp 45'29	26°31'41
morning max cr	16320 Oct 12 03:30 16320 Oct 28 03:40	9 <u>=</u> 3702 0°M₁	21 29 09	morning max ci	16321 Oct 01 00:55	0° ರ 22 ⊯4329	20 31 41
	16320 Nov 14 16:59	0° ∡ ⊓			16321 Oct 21 10:29	o − 0° n L	
morning set	16320 Nov 16 08:28	3° ∡ 12'54		morning set	16321 Oct 30 11:16	16°ML06'27	
asc. node	16320 Nov 16 18:32	4° ₹ ¹02'45		max. Earth dist.	16321 Nov 03 09:07	23°M39'32	1.34382 AU
max. Earth dist.	16320 Nov 20 22:26	12°×731'46	1.32712 AU	asc. node	16321 Nov 03 15:25	24°M10'42	1.0 1002 110
					16321 Nov 06 12:49	0° ∡ 7	
superior conj	16320 Nov 24 10:29	19° ∡ ′57'47	1°05'26				
minimum elong	16320 Nov 24 08:07	19° ∡ ′45′00	1°05'43	superior conj	16321 Nov 08 09:33	3° ₹ 150′20	0°42'15
	16320 Nov 29 01:30	ರ°ರ		minimum elong	16321 Nov 08 07:30	3° ∡ ³39'41	0°42'28
evening rise	16320 Dec 01 09:28	5° る 02'13		evening rise	16321 Nov 15 18:52	19° ∡ ¹24'07	
	16320 Dec 14 13:59	0° ≈			16321 Nov 20 23:41	0°ರ	
desc. node	16320 Dec 19 04:11	6° ≈ 28′02		evening max el	16321 Dec 05 06:26	21° る 34'02	21°09'17
evening max el	16320 Dec 23 14:46	11° ≈ 25'52	22°46'51	desc. node	16321 Dec 06 01:11	22° る 18'48	
retrograde	16321 Jan 05 15:03	17° ≈ 51'57		retrograde	16321 Dec 17 00:45	27° ට 23'10	
evening set	16321 Jan 09 14:33	17° ≈ 17'27		evening set	16321 Dec 19 19:03	27° පි 05'19	
min. Earth dist.	16321 Jan 16 23:58	13° ≈ 54'01	0.54631 AU	inferior conj	16321 Dec 28 12:39	23° る 14'55	
inferior conj	16321 Jan 17 21:59	13° ≈ 22'49	-5°59'45	minimum elong	16321 Dec 28 06:03	23° පි 24'15	
minimum elong	16321 Jan 18 00:32	13° ≈ 19'12	5°59'05	min. Earth dist.	16321 Dec 29 05:20		0.54402 AU
morning rise	16321 Jan 26 11:43	9°≈34'03		morning rise	16322 Jan 05 17:14	19° る 23'35	
direct	16321 Jan 29 11:36	9°≈13'23		direct	16322 Jan 09 19:05	18° る 47'40	
morning max el	16321 Feb 10 04:24	14°≈52'36	21°07'20	morning max el	16322 Jan 22 19:17	25° る 08'12	22°50'17
asc. node	16321 Feb 12 17:07	17° ≈ 33'48		ī	16322 Jan 27 05:32	0° ≈	
	16321 Feb 21 04:40	0°) €		asc. node	16322 Jan 30 14:24	4° ≈ 31'58 0° 米	
morning set	16321 Mar 01 19:17 16321 Mar 08 02:54	16°) 46′02 0° °		marning act	16322 Feb 13 13:39	1° ∺ 29'38	
	10321 Wal 08 02.34	0 1		morning set	16322 Feb 14 06:33	1 大2938	
superior conj	16221 Mar 00 02:20	2° Y ′07'21	1°04'57	superior conj	16322 Feb 21 05:29	16° ¥ 28'00	1°22'11
minimum elong		- 10/41					1°22'10
Č	16321 Mar 09 03:30 16321 Mar 09 06:02	2° Y 20'23	1°04'37	minim eiong	16322 Feb. 21 07:38	16°#3000	1-7.7.10
max. Earth dist	16321 Mar 09 06:02	2° Υ 20'23 11° Υ 57'16	1°04'37 1.35334 AU	minimum elong max. Earth dist.	16322 Feb 21 07:38 16322 Feb 24 16:25	16° ¥ 39'29 23° ¥ 45'32	
max. Earth dist.	16321 Mar 09 06:02 16321 Mar 14 00:31	11° Y ′57'16	1°04'37 1.35334 AU	max. Earth dist.	16322 Feb 24 16:25	23°) 45′32	1.33526 AU
desc. node	16321 Mar 09 06:02 16321 Mar 14 00:31 16321 Mar 17 05:00			max. Earth dist.	16322 Feb 24 16:25 16322 Feb 27 17:52	23°¥45'32 0° Y	
	16321 Mar 09 06:02 16321 Mar 14 00:31	11° Υ 57'16 18° Υ 05'37 19° Υ 36'17		Č	16322 Feb 24 16:25 16322 Feb 27 17:52 16322 Mar 01 06:19	23°¥45'32 0°°Y 3°°Y00'28	
desc. node	16321 Mar 09 06:02 16321 Mar 14 00:31 16321 Mar 17 05:00 16321 Mar 18 00:18 16321 Mar 23 18:51	11° Υ 57'16 18° Υ 05'37		max. Earth dist.	16322 Feb 24 16:25 16322 Feb 27 17:52 16322 Mar 01 06:19 16322 Mar 04 01:41	23°¥45'32 0° Y	
desc. node	16321 Mar 09 06:02 16321 Mar 14 00:31 16321 Mar 17 05:00 16321 Mar 18 00:18 16321 Mar 23 18:51 16321 Apr 12 13:19	11° Υ 57'16 18° Υ 05'37 19° Υ 36'17 0° ႘	1.35334 AU	max. Earth dist.	16322 Feb 24 16:25 16322 Feb 27 17:52 16322 Mar 01 06:19	23°)(45'32 0° Υ 3° Υ 00'28 8° Υ '24'10	1.33526 AU
desc. node evening rise	16321 Mar 09 06:02 16321 Mar 14 00:31 16321 Mar 17 05:00 16321 Mar 18 00:18 16321 Mar 23 18:51	11°Y57'16 18°Y05'37 19°Y36'17 0°႘ 0°Ⅱ	1.35334 AU	max. Earth dist. evening rise desc. node	16322 Feb 24 16:25 16322 Feb 27 17:52 16322 Mar 01 06:19 16322 Mar 04 01:41 16322 Mar 16 15:38	23°\;\;\45'32 0°\?\ 3°\?\00'28 8°\?\24'10 0°\begin{array}{c} & & & & & & & & & & & & & & & & & & &	1.33526 AU
desc. node evening rise evening max el	16321 Mar 09 06:02 16321 Mar 14 00:31 16321 Mar 17 05:00 16321 Mar 18 00:18 16321 Mar 23 18:51 16321 Apr 12 13:19 16321 Apr 22 08:03	11°Y57'16 18°Y05'37 19°Y36'17 0°B 0°I 11°II15'44	1.35334 AU	max. Earth dist. evening rise desc. node	16322 Feb 24 16:25 16322 Feb 27 17:52 16322 Mar 01 06:19 16322 Mar 04 01:41 16322 Mar 16 15:38 16322 Apr 04 21:43	23°\delta5'32 0°\dagger 3°\dagger00'28 8°\dagger24'10 0°\dagger 24°\dagger51'12	1.33526 AU
desc. node evening rise evening max el retrograde	16321 Mar 09 06:02 16321 Mar 14 00:31 16321 Mar 17 05:00 16321 Mar 18 00:18 16321 Mar 23 18:51 16321 Apr 12 13:19 16321 Apr 22 08:03 16321 May 05 07:25	11° Y 57'16 18° Y 05'37 19° Y 36'17 0° 以 11° 川 15'44 18° 川 39'45	1.35334 AU	max. Earth dist. evening rise desc. node evening max el	16322 Feb 24 16:25 16322 Feb 27 17:52 16322 Mar 01 06:19 16322 Mar 04 01:41 16322 Mar 16 15:38 16322 Apr 04 21:43 16322 Apr 11 06:47	23° χ 45'32 0° Υ 3° Υ 00'28 8° Υ 24'10 0° ႘ 24° ႘ 51'12 0° Π	1.33526 AU

avanina aat	16222 Amr 25 01:25	29° 8 53'01		desc. node	16323 Feb 18 22:25	28° ¥ 29'35	
evening set	16322 Apr 25 01:35			desc. node		28 π 2933	
asc. node	16322 Apr 28 11:49	26° 8 42'09	0.65016.444		16323 Feb 19 18:00		
min. Earth dist.	16322 Apr 28 22:31	26° 8 13'21	0.65216 AU		16323 Mar 11 04:35	0°8	25025144
inferior conj	16322 May 01 07:50	23° 8 33'15	0°51'56	evening max el	16323 Mar 18 09:58	8° 8 01'05	27°35'44
minimum elong	16322 May 01 06:29	23° 8 37'02	0°50'56	retrograde	16323 Apr 01 06:47	15° 8 31'54	
morning rise	16322 May 07 13:09	18° 8 04'18		evening set	16323 Apr 08 01:53	13° 8 10'16	
direct	16322 May 10 07:18	17° 8 23'55		min. Earth dist.	16323 Apr 11 20:20	9° 8 59'04	0.63230 AU
morning max el	16322 May 16 14:27	20° 8 39'27	17°57'52	inferior conj	16323 Apr 14 16:47	7° 8 07'28	
	16322 May 23 21:02	Π $\circ 0$		minimum elong	16323 Apr 14 17:12	7° 8 06'25	0°13'04
desc. node	16322 May 31 02:31	11° Ⅱ 29'30		transit middle	16323 Apr 14 17:12	7° と 06'25	0°13'04
morning set	16322 Jun 03 14:22	17° Ⅱ 13′26		transit begin	16323 Apr 14 15:22	7° 8 11'02	
	16322 Jun 11 10:34	0 \circ \odot		transit end	16323 Apr 14 19:02	7° 8 01'48	
				asc. node	16323 Apr 15 09:03	6° 8 26'46	
superior conj	16322 Jun 17 21:09	10° © 16'53	-1°54'28	morning rise	16323 Apr 21 11:09	1° 8 53'58	
minimum elong	16322 Jun 17 12:51	9° 5 344'06	1°54'30	direct	16323 Apr 23 21:00	1° 8 25'55	
max. Earth dist.	16322 Jun 21 10:38	15° 9 53'07	1.45743 AU	morning max el	16323 Apr 30 08:03	4° 8 42'59	17°46'23
	16322 Jun 30 12:55	$0^{\circ}\Omega$		morning set	16323 May 16 17:00	29° 8 33'24	
evening rise	16322 Jul 03 22:49	5° Ω .14'39		Č	16323 May 16 23:10	0°II	
greatest brilliancy	16322 Jul 17 14:48	25° Ω 52'44	-0.6m	desc. node	16323 May 17 23:27	1° Ⅱ 44'23	
greatest orimaney	16322 Jul 20 11:25	0° m)	0.0111	dese. Hode	10323 May 17 23.27	1 11.1.25	
asc. node	16322 Jul 25 11:07	6° Mp 41'56		superior conj	16323 May 29 04:37	20° Ⅲ 37′08	-1°22'30
evening max el	16322 Jul 29 09:10	11° m)08'16	19°35'14	minimum elong	16323 May 28 21:05	20° I I06'15	
-		-	19 33 14	minimum elong	•	20 п 00 13	1 22 23
retrograde	16322 Aug 05 15:07	15° Mp 10'57		E d E d	16323 Jun 03 24:00		1 44752 411
evening set	16322 Aug 09 08:51	13° m 50'04	205 4122	max. Earth dist.	16323 Jun 04 05:24	0°521'29	1.44752 AU
inferior conj	16322 Aug 14 17:21	7° m 55'07		evening rise	16323 Jun 13 09:17	14°939'32	
minimum elong	16322 Aug 14 18:49	7° m 50'13	2°53'52		16323 Jun 23 13:49	0° Ω	
min. Earth dist.	16322 Aug 15 22:22	6° Mp 18'43	0.67663 AU	asc. node	16323 Jul 12 07:57	24°Ω56'30	
morning rise	16322 Aug 20 04:15	1° mp 28'38		evening max el	16323 Jul 12 10:39	25°Ω03'15	20°37'41
	16322 Aug 22 05:03	30°R Ω		retrograde	16323 Jul 20 14:10	29° Ω 42'59	
direct	16322 Aug 26 00:14	28° Ω 56'58		evening set	16323 Jul 24 18:38	28° Ω 04'03	
desc. node	16322 Aug 27 00:42	29° Ω 01′06		inferior conj	16323 Jul 30 00:25	21° Ω 57'31	3°06'29
	16322 Aug 30 03:49	0° m y		minimum elong	16323 Jul 30 00:59	21° Ω 55'32	3°05'59
morning max el	16322 Sep 07 02:08	6° Mg 10′20	25°14'31	min. Earth dist.	16323 Jul 30 15:42	21° Ω 04'49	0.68631 AU
	16322 Sep 25 14:19	0∘ ⊽		morning rise	16323 Aug 04 07:03	15° Ω 34'49	
morning set	16322 Oct 12 22:36	28° ≏ 18'39		direct	16323 Aug 09 15:26	13° Ω 15′08	
	16322 Oct 13 21:08	0° M .		desc. node	16323 Aug 13 22:03	14° Ω 27'46	
max. Earth dist.	16322 Oct 16 11:15	4°M44'54	1.36505 AU	morning max el	16323 Aug 20 13:10	19° Ω 45'28	23°47'10
asc. node	16322 Oct 21 12:15	14°M22'43		C	16323 Aug 29 06:36	0° m	
					16323 Sep 18 17:51	0∘ <u>⊽</u>	
superior conj	16322 Oct 22 23:22	17°ML15'51	0°13'11	morning set	16323 Sep 24 14:15	9° ჲ 39'40	
minimum elong	16322 Oct 22 22:33	17°ML11'46	0°13'29	max. Earth dist.	16323 Sep 28 10:12	16° ≙ 16'25	1.38893 AU
behind sun begin	16322 Oct 22 19:00	16°ML54'12	0 13 2)	max. Larm dist.	16323 Oct 05 23:12	0°M	1.50075710
behind sun end	16322 Oct 22 17:00 16322 Oct 23 02:05	17°M29'22			10323 Oct 03 23.12	O III	
bennia sun ena	16322 Oct 29 06:25	0° √		superior conj	16323 Oct 06 00:17	0°M05'05	0°20'54
evening rise		3° ∡ ¹36′21			16323 Oct 06 00:17	0°M12'06	0°20'20
evening rise	16322 Oct 31 00:48			minimum elong			0 20 20
	16322 Nov 15 07:07	0°る	10040147	asc. node	16323 Oct 08 09:01	4°M34'40	
evening max el	16322 Nov 17 11:37	2°る24'45	19°49'47	evening rise	16323 Oct 15 00:39	17°M31'55	
desc. node	16322 Nov 22 22:16	6°る24'12			16323 Oct 21 14:04	0° ∡ ¹	10050105
retrograde	16322 Nov 27 14:59	7° る 28'26		evening max el	16323 Oct 31 06:48	14° ⋌ ¹05'09	18°52'27
evening set	16322 Nov 29 16:20	7° る 16'55		retrograde	16323 Nov 08 21:26	18° ∡ ¹25'58	
inferior conj	16322 Dec 08 09:47	3° ට 16'28		desc. node	16323 Nov 09 19:25	18° ∡ ′23′10	
minimum elong	16322 Dec 07 23:47	3° る 31'53		evening set	16323 Nov 10 18:58	18° ∡ 14'07	
min. Earth dist.	16322 Dec 10 12:15	1° る 58'43	0.55112 AU	inferior conj	16323 Nov 19 00:45	13° ∡ 54'33	-2°56'10
	16322 Dec 14 01:40	30°₽ ⋌ ¹		minimum elong	16323 Nov 18 17:35	14° ∡ °07′21	2°52'48
morning rise	16322 Dec 16 05:54	29° ∡ 04'10		min. Earth dist.	16323 Nov 21 23:57	11° ∡ ⁴48′05	0.56622 AU
direct	16322 Dec 21 08:44	28° ₮ 06'34		morning rise	16323 Nov 26 13:18	9° ∡ '07'33	
	16322 Dec 28 11:00	0° ට		direct	16323 Dec 02 11:04	7° ∡ ¹44'25	
morning max el	16323 Jan 04 03:37	4° ට 59'01	24°40'19	morning max el	16323 Dec 16 15:00	15° ∡ 02'11	26°18'32
asc. node	16323 Jan 17 11:39	22° ろ 29'20		-	16323 Dec 28 14:52	ರ°0	
	16323 Jan 21 18:15	0° ≈		asc. node	16324 Jan 04 08:50	11° ප් 10'15	
morning set	16323 Jan 29 18:34	16° ≈ 11'30			16324 Jan 13 20:57	0° ≈	
<i>3 ,</i>	16323 Feb 05 01:41	0° ∀		morning set	16324 Jan 14 05:27	0° ≈ 45'39	
		- **					
superior conj	16323 Feb 05 12:47	1° ₩ 01'03	1°33'07	superior conj	16324 Jan 20 23:07	15° ≈ 39'07	1°37'55
minimum elong	16323 Feb 05 14:07	1° ∺ 08′22		minimum elong	16324 Jan 20 23:26	15°≈40'50	1°38'27
max. Earth dist.	16323 Feb 07 16:11	5°) 41'34	1.32168 AU	max. Earth dist.	16324 Jan 21 21:32	17°≈44'00	1.31307 AU
evening rise	16323 Feb 07 16.11 16323 Feb 12 22:52	16°) 49'29	1.52100 AU	evening rise	16324 Jan 27 23:05	0° ¥ 55'26	1.5150/ AU
evening 1150	10343 100 14 44.34	10 八 寸7 47		evening 1150	10327 Jan 21 23.03	o N3320	

	16324 Jan 27 12:34	0° \			16325 Jan 04 07:31	0° ≈	
desc. node	16324 Feb 05 19:08	18° ∺ 15'06		evening rise	16325 Jan 11 04:43	0 ~ 15° ≈ 13'09	
dese. Hode	16324 Feb 12 17:54	0°Υ		evening rise	16325 Jan 18 11:46	0° \	
evening max el	16324 Feb 28 18:11	* .	27°26'32	desc. node	16325 Jan 22 15:52	7°) 33′19	
retrograde	16324 Mar 13 18:24	27° Y ′54'37			16325 Feb 07 15:31	0°Υ	
evening set	16324 Mar 20 12:42	25° Y ′49'06		evening max el	16325 Feb 09 19:47	2° Υ 11'19	26°42'17
min. Earth dist.	16324 Mar 24 08:05	22° Y ′59'34	0.61018 AU	retrograde	16325 Feb 23 20:23	9° Y ′24'09	
inferior conj	16324 Mar 27 12:12	20° Ƴ 11'33	-1°31'39	evening set	16325 Mar 02 06:51	7° Ƴ 41'23	
minimum elong	16324 Mar 27 15:32	20° Y ′04'09	1°30'29	min. Earth dist.	16325 Mar 06 09:32	5° Y 02'58	0.58760 AU
asc. node	16324 Apr 01 06:20	16° Y ′28'54		inferior conj	16325 Mar 09 14:19	2° Y 35'44	-3°01'04
morning rise	16324 Apr 03 21:43	15° Y 16'38		minimum elong	16325 Mar 09 21:17	2° Y '22'20	2°58'27
direct	16324 Apr 06 00:50	14° Y 57'31			16325 Mar 13 05:16	30° ₹ ₩	
morning max el	16324 Apr 13 00:29	18° Ƴ 27'37	17°52'59	morning rise	16325 Mar 17 15:17	28° ₩ 01'49	
	16324 Apr 21 09:22	0°8		asc. node	16325 Mar 19 03:40	27°) 48'51	
morning set	16324 Apr 28 15:50	12° 8 49'05		direct	16325 Mar 19 14:20	27°) 48′08	
desc. node	16324 May 03 20:18	22° 8 09'05			16325 Mar 25 12:23	0° Y	
	16324 May 08 07:20	$\Pi^{\circ}0$		morning max el	16325 Mar 27 12:08	1° Ƴ 42'59	18°18'55
				morning set	16325 Apr 12 05:16	26° Ƴ 43'44	
superior conj	16324 May 09 11:28	2° Ⅱ 01'36	-0°45'07		16325 Apr 13 22:40	$0^{\circ}S$	
minimum elong	16324 May 09 07:28	1° Ⅱ 44'21	0°45'03	desc. node	16325 Apr 20 17:03	12° 8 39'20	
max. Earth dist.	16324 May 16 20:12	14° Ⅱ 22'49	1.43136 AU				
evening rise	16324 May 23 04:35	24° Ⅲ 33'14		superior conj	16325 Apr 21 16:13	14° 8 25'01	-0°08'05
	16324 May 26 16:40	0 \circ \mathfrak{s}		minimum elong	16325 Apr 21 15:35	14° 8 22'04	0°08'23
	16324 Jun 16 13:59	$0^{\circ}\Omega$		behind sun begin	16325 Apr 21 09:15	13° 8 53'16	
evening max el	16324 Jun 24 06:15	8° Ω 57'40	21°51'36	behind sun end	16325 Apr 21 21:54	14° 8 50'49	
asc. node	16324 Jun 28 04:49	12° Ω 20'40		max. Earth dist.	16325 Apr 29 05:52	27° 8 43'57	1.41076 AU
retrograde	16324 Jul 03 12:33	14° Ω 21'38			16325 Apr 30 14:02	Π $^{\circ}0$	
evening set	16324 Jul 08 04:14	12° Ω 25'35		evening rise	16325 May 03 18:57	5° Ⅱ 18'59	
inferior conj	16324 Jul 13 09:55	6° Ω 08'53	3°07'21		16325 May 19 20:56	0ంత	
minimum elong	16324 Jul 13 09:32	6° Ω 10′13	3°06'45	evening max el	16325 Jun 06 21:40	22° © 51'53	23°12'14
min. Earth dist.	16324 Jul 13 11:54	6° Ω 01'56	0.69109 AU	asc. node	16325 Jun 15 01:45	28°937'58	
	16324 Jul 18 11:11	30° ₹ 5		retrograde	16325 Jun 17 08:44	29° © 00'26	
morning rise	16324 Jul 18 14:38	29° © 52'26		evening set	16325 Jun 22 11:58	26° © 49'22	
direct	16324 Jul 23 10:48	27°5549'08		inferior conj	16325 Jun 27 19:51	20° © 24'37	2°57'40
	16324 Jul 29 01:41	0 ° Ω		minimum elong	16325 Jun 27 18:36	20° © 28'57	2°56'51
desc. node	16324 Jul 30 19:20	1° Ω 21'40		min. Earth dist.	16325 Jun 27 08:48	21°502'50	0.69097 AU
morning max el	16324 Aug 02 02:03	3° Ω 29'10	22°18'40	morning rise	16325 Jul 03 01:09	14°5516'02	
	16324 Aug 22 07:27	0° m)		direct	16325 Jul 07 09:11	12°931'31	2005/127
morning set	16324 Sep 04 06:51	20° Mp 02'42	1 41267 ATT	morning max el	16325 Jul 15 19:24		20°56'27
max. Earth dist.	16324 Sep 09 11:48	28° II⊅36'02 0° <u>Ω</u>	1.41267 AU	desc. node	16325 Jul 17 16:32	19° © 20'27 0° Ω	
	16324 Sep 10 07:47	0-22		mamina sat	16325 Jul 26 02:44 16325 Aug 15 00:39	0° λ 28′22	
superior coni	16224 San 17 00:02	12° ≏ 08'41	0057145	morning set	Č	29 3 6 28 22	
superior conj minimum elong	16324 Sep 17 08:03 16324 Sep 17 12:43	12 ≗ 08 41 12° ≗ 29'27		max. Earth dist.	16325 Aug 15 08:46 16325 Aug 22 19:05		1.43354 AU
asc. node	16324 Sep 17 12.43 16324 Sep 24 05:44	12 = 2927 24° £ 43'19	0 30 30	max. Earth dist.	10323 Aug 22 19.03	11 111/4/11	1.43334 AU
asc. Houc	16324 Sep 27 01:40	0°M₁		superior conj	16325 Aug 29 18:19	23° m) 16'43	1022122
evening rise	16324 Sep 27 15:06	1°ML02'48		minimum elong	16325 Aug 20 01:48	23° m/ 48'15	
evening max el	16324 Oct 13 12:43	26°M30'46	18°17'02	minimum clong	16325 Sep 02 17:01	0° ت	1 32 30
evening max er	16324 Oct 18 20:26	0° ₹	10 17 02	evening rise	16325 Sep	° – 13° ≏ 56'54	
retrograde	16324 Oct 20 23:20	0° х 18'33		asc. node	16325 Sep 11 02:25	14° £ 44'18	
evening set	16324 Oct 23 00:44	0° х 1035 0° х 01'46		use. Hode	16325 Sep 11 02:25 16325 Sep 19 22:48	0° M .	
	16324 Oct 23 03:17	30°RM		evening max el	16325 Sep 27 01:07	9° M ₊31'20	18°01'57
desc. node	16324 Oct 26 16:36	28°M18'14		retrograde	16325 Oct 03 17:55	12°M58'45	
inferior conj	16324 Oct 30 13:35	25°M20'52	-1°14'54	evening set	16325 Oct 06 02:35	12°M32'54	
minimum elong	16324 Oct 30 10:47	25°M26'44		inferior conj	16325 Oct 12 22:33	7°M32'01	0°11'59
min. Earth dist.	16324 Nov 02 19:38	22°M39'04	0.58670 AU	minimum elong	16325 Oct 12 22:57	7°ML31'05	0°12'12
morning rise	16324 Nov 06 17:22	19° M 57'16		transit middle	16325 Oct 12 22:57	7° M L31'05	0°12'12
direct	16324 Nov 13 03:32	18° M 07'21		transit begin	16325 Oct 12 20:48	7° M .36'14	
morning max el	16324 Nov 27 10:26	25°M46'02	27°27'19	transit end	16325 Oct 13 01:05	7°M25'55	
Ç	16324 Dec 01 09:45	0° ∡ ¹		desc. node	16325 Oct 13 13:51	6°M55'03	
asc. node	16324 Dec 21 05:58	0° る 23'28		min. Earth dist.	16325 Oct 16 00:50	4°M34'26	0.60954 AU
	16324 Dec 21 01:00	0°రె		morning rise	16325 Oct 19 16:16	1°MJ38'58	
morning set	16324 Dec 28 13:23	15° る 07'32			16325 Oct 22 22:54	30° R <u>Ω</u>	
-				direct	16325 Oct 26 08:23	29° ≏ 25'42	
superior conj	16325 Jan 04 10:33	0° ≈ 17'01	1°36'41		16325 Oct 29 20:57	0° M ₊	
minimum elong	16325 Jan 04 09:49	0° ≈ 12'52	1°37'17	morning max el	16325 Nov 09 13:32	7° M ₊18'49	27°57'45
max. Earth dist.	16325 Jan 04 05:08	29° ප් 46'41	1.30976 AU		16325 Nov 26 20:06	0° ∡ ¹	

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asc. node	16325 Dec 08 03:00	19° ∡ 59'53		asc. node	16326 Nov 24 23:57	9° ∡ 52'37	
morning set	16325 Dec 12 16:25	29° ∡ 12'14		morning set	16326 Nov 26 12:15	12° ₹ 54'09	
	16325 Dec 13 01:32	0°₹		max. Earth dist.	16326 Dec 01 12:11	23° ∡ 19′20	1.31999 AU
max. Earth dist.	16325 Dec 18 11:16	11° る 41'09	1.31199 AU				
				superior conj	16326 Dec 04 05:08	29° ∡ 11′08	1°16'00
superior conj	16325 Dec 19 21:12	14° る 49'34	1°29'24	minimum elong	16326 Dec 04 02:53	28° ∡ 58′50	1°16'22
minimum elong	16325 Dec 19 19:33	14° る 40'22	1°29'56		16326 Dec 04 14:05	0°₹	
evening rise	16325 Dec 26 13:46	29° る 38'01		evening rise	16326 Dec 11 00:26	14° る 05'24	
	16325 Dec 26 17:50	0°≈			16326 Dec 18 20:25	0° ≈	
desc. node	16326 Jan 09 12:41	26° ≈ 14'17		desc. node	16326 Dec 27 09:34	14° ≈ 03'57	
	16326 Jan 11 23:07	0° ₩		evening max el	16327 Jan 03 23:53	23° ≈ 06′17	23°46'49
evening max el	16326 Jan 22 13:14	12° ¥ 59′29	25°25'33	retrograde	16327 Jan 17 10:50	29° ≈ 46′16	
retrograde	16326 Feb 05 10:36	19° ¥ 58′25		evening set	16327 Jan 22 03:59	28° ≈ 58'11	
evening set	16326 Feb 11 04:47	18°) 43′02		min. Earth dist.	16327 Jan 28 11:18	25° ≈ 55'47	0.55180 AU
min. Earth dist.	16326 Feb 16 01:58	16° ₩ 01′20	0.56714 AU	inferior conj	16327 Jan 30 04:48	24° ≈ 54'34	-5°39'55
inferior conj	16326 Feb 18 20:01	14° ₩ 11'27	-4°30'45	minimum elong	16327 Jan 30 11:48	24° ≈ 44'14	5°38'27
minimum elong	16326 Feb 19 05:26	13° ¥ 55'45	4°27'48	morning rise	16327 Feb 07 21:10	20° ≈ 59'29	
morning rise	16326 Feb 27 08:55	9° ¥ 58'43		direct	16327 Feb 10 09:30	20° ≈ 43'43	
direct	16326 Mar 01 09:34	9°) 46′34		asc. node	16327 Feb 20 22:18	25°≈43'06	
asc. node	16326 Mar 06 00:59	10°) 54'30		morning max el	16327 Feb 21 04:14	25° ≈ 57'19	20°16'24
morning max el	16326 Mar 10 14:48	14°) 17'08	19°06'05		16327 Feb 24 18:35	0° ∀	
	16326 Mar 21 10:18	0°Υ		morning set	16327 Mar 11 10:57	25° ¥ 40′05	
morning set	16326 Mar 27 04:49	11° Υ ′04'30		morning sec	16327 Mar 13 13:31	0°Υ	
morning sec	10320 14141 27 01.17	11 10150			10327 17141 13 13.31	V 1	
superior conj	16326 Apr 04 14:49	27° Ƴ 36'02	0°24'54	superior conj	16327 Mar 19 02:51	11° Y ′21'45	0°52'07
minimum elong	16326 Apr 04 16:19	27° Ƴ 43'16	0°24'22	minimum elong	16327 Mar 19 05:17	11° Y '34'00	0°51'39
	16326 Apr 05 21:01	0°8		max. Earth dist.	16327 Mar 24 19:12	22° Y 29'15	1.36545 AU
desc. node	16326 Apr 07 13:47	3° 8 11'40		desc. node	16327 Mar 25 10:30	23° Y '41'38	
max. Earth dist.	16326 Apr 11 12:10	10° 8 23'03	1.38800 AU	evening rise	16327 Mar 28 13:43	29° Y ′29'30	
evening rise	16326 Apr 15 06:46	17° 8 00'43	1.50000110	evening rise	16327 Mar 28 20:27	0°8	
evening rise	16326 Apr 23 03:20	0°II			16327 Apr 16 09:17	0°П	
	16326 May 14 08:10	0°©		evening max el	16327 May 03 00:59	20° Ⅱ 41'19	25°47'34
evening max el	16326 May 20 11:22	6°9547'32	24°33'16	retrograde	16327 May 15 13:37	27° I I54'10	23 47 34
retrograde	16326 Jun 01 01:28	13°933'43	24 33 10	asc. node	16327 May 19 19:51	26° Ⅱ 41'17	
asc. node	16326 Jun 01 22:46	13°930'25		evening set	16327 May 21 15:16	25° I I23'43	
evening set	16326 Jun 06 16:13	13 3 3023		min. Earth dist.	16327 May 25 20:19	20° I 51'06	0.67637 AU
min. Earth dist.	16326 Jun 11 04:21	6°901'36	0.68605 AU	inferior conj	16327 May 27 09:26	18° I I53′23	2°06'13
inferior conj	16326 Jun 12 04:22	4°9541'10	2°37'28	minimum elong	16327 May 27 07:15	18 Ⅱ 33 23	2°04'58
3	16326 Jun 12 02:27	4°947'34		C	,	13° Ⅱ 00′20	2 04 36
minimum elong	16326 Jun 16 00:52	4 €94/34 30°R∏	2°36'24	morning rise	16327 Jun 01 23:47 16327 Jun 05 09:23	13 Д04 34 11°Д58'27	
marning rigo	16326 Jun 17 12:50	30 KII 28°II41'45		direct	16327 Jun 12 02:38	11 Ш 3827 15° Ш 35'24	18°50'57
morning rise				morning max el			18 30 37
direct	16326 Jun 21 09:17	27° Ⅱ 16'46		desc. node	16327 Jun 21 10:48	27° Ⅱ 29'44	
	16326 Jun 27 06:32	0°95	10046107	4 41 711	16327 Jun 23 03:34	0°95	0.0
morning max el	16326 Jun 28 19:25	1°524'21	19°46'07	greatest brilliancy	16327 Jun 25 16:23	3°548'55	-0.8m
desc. node	16326 Jul 04 13:42	8°907'29		morning set	16327 Jul 04 15:50	17° © 38'55	
. ,	16326 Jul 19 17:13	0°N		To all the	16327 Jul 12 14:43	0°N	1 45026 444
morning set	16326 Jul 25 05:15	8° Ω 22'59	1 44021 411	max. Earth dist.	16327 Jul 19 03:21	10° Ω 09'53	1.45836 AU
max. Earth dist.	16326 Aug 05 08:43	25° Ω 43'00	1.44931 AU		16227 1 1 20 20 22	120 0 5015 4	201.4100
	16326 Aug 08 01:29	0° m)		superior conj	16327 Jul 20 20:33	12°Ω50'54	
	16226 1 10 05 06	207 2012	2001121	minimum elong	16327 Jul 20 21:51	12° Ω 56'00	2°14'40
superior conj	16326 Aug 10 05:06	3° M) 26'37			16327 Jul 31 17:10	0° M)	
minimum elong	16326 Aug 10 12:14	3° m 55'17	2°01'15	evening rise	16327 Aug 05 03:13	7° Mp 04'46	
evening rise	16326 Aug 23 21:23	26° Mp 01'16		asc. node	16327 Aug 15 19:49	24° Mp 06'04	
	16326 Aug 26 06:00	0∘ ⊽			16327 Aug 19 19:33	0∘ ত	
asc. node	16326 Aug 28 23:06	4° £ 33'33		evening max el	16327 Aug 25 06:04	6° Ω 38'56	18°27'15
evening max el	16326 Sep 10 16:02	22° ♀ 57'00	18°05'42	retrograde	16327 Aug 31 16:35	10° Ω 05'49	
retrograde	16326 Sep 17 01:03	26° £ 17'26		evening set	16327 Sep 03 18:51	9° ₽ 12'05	
evening set	16326 Sep 19 18:13	25° ≏ 39'01		inferior conj	16327 Sep 09 13:37	3° ≏ 37'46	2°08'51
inferior conj	16326 Sep 25 23:53	20° ≙ 20'16	1°19'41	minimum elong	16327 Sep 09 15:56	3° ≏ 30'50	2°08'12
minimum elong	16326 Sep 26 01:51	20° ≙ 14'55	1°19'12	min. Earth dist.	16327 Sep 11 16:31	1° ≏ 05'48	0.65224 AU
min. Earth dist.	16326 Sep 28 15:56	17° ≏ 27'10	0.63207 AU		16327 Sep 12 15:40	30°₽, MD	
desc. node	16326 Sep 30 11:08	15° ≏ 40'22		morning rise	16327 Sep 15 11:42	27° m 14'25	
morning rise	16326 Oct 02 07:20	14° ≙ 07'38		desc. node	16327 Sep 17 08:28	25° m 55'57	
direct	16326 Oct 08 23:13	11° ≏ 38'23		direct	16327 Sep 21 22:16	24° m 37'58	
morning max el	16326 Oct 22 21:50	19° ≏ 36'36	27°49'27		16327 Oct 02 17:18	0∘ ⊽	
	16326 Oct 31 19:15	0° M ₊		morning max el	16327 Oct 05 08:53	2° ≏ 30'04	27°07'49
	16326 Nov 19 19:38	0° ∡ ¹			16327 Oct 26 01:29	0° M	

morning set	16327 Nov 09 22:14	26°M07'36			16328 Oct 17 21:58	0° M	
asc. node	16327 Nov 11 20:52	29°M56'26		morning set	16328 Oct 22 18:55	8°M44'12	
	16327 Nov 11 21:35	0° ∡ ¹		max. Earth dist.	16328 Oct 26 11:54	15° M 43'45	1.35237 AU
max. Earth dist.	16327 Nov 14 04:54	4° ⋌ ³38'44	1.33362 AU	asc. node	16328 Oct 28 17:42	20°M06'08	
superior conj	16327 Nov 18 08:12	13° ∡ 16′21	0°56'23	superior conj	16328 Nov 01 03:40	26°M57'41	0°30'37
minimum elong	16327 Nov 18 05:52	13° ∡ '03'59	0°56'37	minimum elong	16328 Nov 01 02:01	26° M 49'15	0°30'50
evening rise	16327 Nov 25 10:54	28° ∡ 31′10			16328 Nov 02 15:14	0° ∡ ¹	
	16327 Nov 26 03:39	0°₹		evening rise	16328 Nov 08 19:06	12° ∡ ¹49'22	
	16327 Dec 13 15:04	0° ≈			16328 Nov 17 15:02	0°ರ	
desc. node	16327 Dec 14 06:31	0° ≈ 44'42		evening max el	16328 Nov 27 07:29	13° る 25'26	20°32'50
evening max el	16327 Dec 16 10:46	3° ≈ 02'39	22°03'42	desc. node	16328 Nov 30 03:33	15° る 53'21	
retrograde	16327 Dec 28 23:28	9° ≈ 14'17		retrograde	16328 Dec 08 09:51	18° る 56'18	
evening set	16328 Jan 01 10:06	8° ≈ 47'57		evening set	16328 Dec 10 19:04	18° る 42'12	
inferior conj	16328 Jan 09 22:32	4° ≈ 57'07	-6°01'40	inferior conj	16328 Dec 19 14:07	14° る 48'32	-5°22'03
minimum elong	16328 Jan 09 20:59	4° ≈ 59'16	6°01'02	minimum elong	16328 Dec 19 05:07	15° る 01'39	5°19'32
min. Earth dist.	16328 Jan 09 16:41	5° ≈ 05'17	0.54425 AU	min. Earth dist.	16328 Dec 20 22:09	14° ප 01'56	0.54593 AU
morning rise	16328 Jan 18 08:45	1° ≈ 09'47		morning rise	16328 Dec 27 14:52	10°る50'35	
direct	16328 Jan 21 19:28	0° ≈ 43'31		direct	16329 Jan 01 03:38	10° る 06'22	
morning max el	16328 Feb 03 02:33	6° ≈ 40'29	21°49'12	morning max el	16329 Jan 14 13:34	16° ප් 41'17	23°37'18
asc. node	16328 Feb 07 19:36	11° ≈ 59'20		asc. node	16329 Jan 24 16:52	29° る 24'15	
	16328 Feb 18 18:41	0° ∀			16329 Jan 25 02:04	0° ≈	
morning set	16328 Feb 23 21:01	10° ¥ 22'52		morning set	16329 Feb 07 08:51	25°≈06'20	
morning sec	10020100 20 21.01	10 /(2202		merming sec	16329 Feb 09 15:14	0° ∀	
superior conj	16328 Mar 02 00:40	25° ¥ 32'15	1°13'01		1002) 100 07 10.11	٠,٨	
minimum elong	16328 Mar 02 03:06	25°) 45'01	1°12'49	superior conj	16329 Feb 14 05:13	9° ¥ 58'59	1°27'34
minimum crong	16328 Mar 04 04:10	0°Υ	1 12 17	minimum elong	16329 Feb 14 07:04	10° ¥ 08'57	1°27'42
max. Earth dist.	16328 Mar 06 07:15	4° Υ 20'01	1.34524 AU	max. Earth dist.	16329 Feb 17 02:33	16° ¥ 10'31	1.32889 AU
evening rise	16328 Mar 10 12:20	12° Υ 35'50	1.54524 AU	evening rise	16329 Feb 21 23:10	26°\(\)11'03	1.52007 AC
desc. node	16328 Mar 11 07:13	14° Υ 05'30		evening rise	16329 Feb 23 21:41	0° Υ	
desc. node	16328 Mar 20 06:04	0°8		desc. node	16329 Feb 26 03:56	4° Υ 18'53	
	16328 Apr 10 10:11	0°II		desc. Hode	16329 Mar 13 15:03	0° 8	
evening max el	16328 Apr 10 10:11	0 <u>П</u> 4° П 26'01	26°47'39	evening max el	16329 Mar 28 03:52	17° 8 51'21	27°26'07
•	•	11° I I54'10	20 47 39	•		25° 8 24'33	27 2007
retrograde	16328 Apr 27 20:18	9° Д 21'30		retrograde	16329 Apr 10 20:44	25° 6 24°33	
evening set	16328 May 04 07:16	9°Щ21'30 8°Щ07'29		evening set	16329 Apr 17 14:04	_	0.64407.411
asc. node	16328 May 05 17:01		0.66221 ATT	min. Earth dist.	16329 Apr 21 09:29	19° 8 29'55	0.64407 AU
min. Earth dist.	16328 May 08 06:39	5° Ⅱ 23'40	0.66221 AU	asc. node	16329 Apr 22 14:14	18° 8 13'51	0026112
inferior conj	16328 May 10 08:50	2° Ⅱ 56'05	1°22'52	inferior conj	16329 Apr 23 23:57	16° 8 42'57	0°26'12
minimum elong	16328 May 10 06:57	3° Ⅱ 01'39	1°21'40	minimum elong	16329 Apr 23 23:13		0°25'28
	16328 May 12 23:47	30° ₹ 8		morning rise	16329 Apr 30 10:33	11° 8 20'35	
morning rise	16328 May 16 07:54	27° 8 19'30		direct	16329 May 03 00:59	10° 8 45'55	
direct	16328 May 19 07:27	26° 8 30'29		morning max el	16329 May 09 08:48	14° 8 00'34	17°50'52
morning max el	16328 May 25 15:53	29° 8 49'59	18°12'21		16329 May 20 17:51	0°II	
	16328 May 25 20:00	0°II		desc. node	16329 May 25 04:51	7° Ⅱ 24'46	
desc. node	16328 Jun 07 07:52	17° Ⅱ 17'52		morning set	16329 May 26 13:17	9° Ⅱ 40'35	
morning set	16328 Jun 14 00:54	28° Ⅱ 00'44			16329 Jun 07 21:32	0 \circ	
	16328 Jun 15 06:41	0 \circ					
				superior conj	16329 Jun 09 01:52	1°953'41	
superior conj	16328 Jun 29 05:48	22° © 05'04		minimum elong	16329 Jun 08 17:19	1° © 19'25	
minimum elong	16328 Jun 28 23:41	21° 5 641'08		max. Earth dist.	16329 Jun 13 19:54	9° © 26'13	1.45399 AU
max. Earth dist.	16328 Jul 01 00:06		1.45993 AU	evening rise	16329 Jun 24 21:14	26° © 34'15	
	16328 Jul 04 07:41	0 $^{\circ}\Omega$			16329 Jun 27 03:11	0 \circ Ω	
evening rise	16328 Jul 15 08:26	17° Ω 07'37		greatest brilliancy	16329 Jul 09 16:32	18° Ω 43'27	-0.6m
	16328 Jul 23 16:27	0° m)			16329 Jul 17 23:35	0° m)	
greatest brilliancy	16328 Jul 26 09:58	4° m 08'59	-0.7m	asc. node	16329 Jul 19 13:21	1° m 52'43	
asc. node	16328 Aug 01 16:33	13° Mp 15'03		evening max el	16329 Jul 21 21:21	4° Mg 23′32	20°00'07
evening max el	16328 Aug 07 16:27	20° m 29'19	19°05'49	retrograde	16329 Jul 29 11:53	8° m)41'21	
retrograde	16328 Aug 14 13:06	24° Mp 15'42		evening set	16329 Aug 02 10:02	7° m 12'50	
evening set	16328 Aug 18 00:59	23° m 04'59		inferior conj	16329 Aug 07 17:01	1° Mp 12'38	3°00'59
inferior conj	16328 Aug 23 12:17	17° m 16'56	2°41'50	minimum elong	16329 Aug 07 18:08	1°M)08'53	3°00'28
minimum elong	16328 Aug 23 14:12	17° m) 10'47	2°41'15	min. Earth dist.	16329 Aug 08 16:09	29° Ω 54'18	0.68127 AU
min. Earth dist.	16328 Aug 25 01:13	15° m) 18'01	0.66888 AU		16329 Aug 08 14:28	30° R Ω	
morning rise	16328 Aug 29 02:40	10° m 49'55		morning rise	16329 Aug 13 01:48	24° Ω 47'06	
desc. node	16328 Sep 03 05:50	8° Mp 18'02		direct	16329 Aug 18 16:52	22° Ω 19'54	
direct	16328 Sep 04 04:30	8° Mp 14'32		desc. node	16329 Aug 21 03:10	22° Ω 43′23	
morning max el	16328 Sep 16 20:31	15° m 46'50	26°00'52	morning max el	16329 Aug 30 07:36	29° Ω 17'06	24°38'02
	16328 Sep 28 14:48	0∘ ⊽			16329 Aug 31 00:19	0° m	

morning set max. Earth dist.	16329 Sep 22 09:40 16329 Oct 04 22:22 16329 Oct 08 11:37	0° ჲ 20° ჲ 35'33 26° ჲ 55'06	1.37500 AU	morning max el	16330 Aug 12 18:57 16330 Aug 26 13:11 16330 Sep 15 06:10	12° Ω 55'06 0° m 0° ⊆	23°09'02
	16329 Oct 10 04:03	0°M		morning set max. Earth dist.	16330 Sep 16 04:28 16330 Sep 20 10:29	1° £ 32'06 8° £ 42'39	1.39921 AU
superior conj	16329 Oct 15 12:25	10°ML08'05	-0°00'47	max. Earm dist.	16330 Sep 20 10.29	8 = 42 39	1.39921 AU
minimum elong	16329 Oct 15 12:27	10°M08'12	0°00'23	superior conj	16330 Sep 28 06:34	22° £ 38'51	
behind sun begin behind sun end	16329 Oct 15 05:46 16329 Oct 15 19:07	9°M35'49 10°M40'39		minimum elong asc. node	16330 Sep 28 09:20 16330 Oct 02 11:15	22° £ 51'35 0° M 28'52	0°35'42
asc. node	16329 Oct 15 14:30	10°M18'13		asc. node	16330 Oct 02 11:13	0°M	
evening rise	16329 Oct 23 22:46	26°M54'40		evening rise	16330 Oct 07 19:01	10°M40'15	
	16329 Oct 25 11:53	0° ∡			16330 Oct 18 14:22	0° ∡ ¹	
evening max el desc. node	16329 Nov 09 18:48 16329 Nov 17 00:38	24° ₹36'37 29° ₹06'03	19°22'40	evening max el retrograde	16330 Oct 23 19:08 16330 Oct 31 20:26	6° х ⁷ 37'30 10° х ⁷ 42'21	18°34'51
retrograde	16329 Nov 19 06:03	29° 🖈 21'21		evening set	16330 Nov 02 19:06	10° x ° 42' 21' 10° x ° 28' 52	
evening set	16329 Nov 21 04:13	29° ∡ 10′28		desc. node	16330 Nov 03 21:46	10° ∡ °09'41	
inferior conj	16329 Nov 29 17:50	25° ∡ 02'48		inferior conj	16330 Nov 10 17:59	6° ∡ 100'34	
minimum elong	16329 Nov 29 08:33	25° ₹ 18'00	3°51'38	minimum elong	16330 Nov 10 12:42	6° ₹ 10'38	2°09'24
min. Earth dist. morning rise	16329 Dec 02 07:03 16329 Dec 07 10:42	23° х 22'53 20° х 36'19	0.55666 AU	min. Earth dist. morning rise	16330 Nov 13 21:52 16330 Nov 18 03:00	3° х ⁷ 36'48 0° х ⁷ 57'46	0.57446 AU
direct	16329 Dec 12 22:15	19° ₹ 28'04		morning rise	16330 Nov 20 10:55	30°RM	
morning max el	16329 Dec 26 22:17	26° ∡ ³32'52	25°24'43	direct	16330 Nov 24 07:09	29°M22'46	
	16329 Dec 30 05:38	% පි∘0			16330 Nov 28 04:40	0° ∡ ¹	
asc. node	16330 Jan 11 14:05	17° る 41'14		morning max el	16330 Dec 08 12:37	6° ∡ 750′10	26°52'08
morning set	16330 Jan 18 04:24 16330 Jan 22 20:33	0° ≈ 9° ≈ 45'03		asc. node	16330 Dec 25 17:25 16330 Dec 29 11:15	0°궁 6°궁37'00	
morning set	10330 Juli 22 20.33	7 7043 03		morning set	16331 Jan 07 06:23	24°る14'25	
superior conj	16330 Jan 29 14:03	24° ≈ 34'45	1°35'54	C	16331 Jan 09 21:48	0° ≈	
minimum elong	16330 Jan 29 14:58	24° ≈ 39'48	1°36'19				
max. Earth dist.	16330 Jan 31 04:44	28°≈08'10 0°) €	1.31732 AU	superior conj	16331 Jan 14 01:05	9°≈13'32 9°≈12'44	1°38'09 1°38'42
evening rise	16330 Feb 01 01:10 16330 Feb 05 19:15	10° ★ 07'42		minimum elong max. Earth dist.	16331 Jan 14 00:56 16331 Jan 14 11:26	9°≈12′44 10°≈11′29	1.31097 AU
desc. node	16330 Feb 13 00:38	24°) 16'19		evening rise	16331 Jan 20 22:02	24°≈19'39	1.510,7110
	16330 Feb 16 05:23	0° Y			16331 Jan 23 15:24	0° ∀	
	16330 Mar 09 20:00	0°8		desc. node	16331 Jan 30 21:20	13°) √51′22	
evening max el retrograde	16330 Mar 10 14:36 16330 Mar 24 13:44	0° と 45'23 8° と 14'34	27°36'02	evening max el	16331 Feb 10 00:04 16331 Feb 20 20:32	0° Υ 12° Υ 56'18	27012110
evening set	16330 Mar 31 09:03	5° 8 58'50		retrograde	16331 Mar 06 21:31	20°Υ15'20	27 12 10
min. Earth dist.	16330 Apr 04 03:14	2° 8 57'48	0.62301 AU	evening set	16331 Mar 13 13:13	18° Y 19'07	
inferior conj	16330 Apr 07 03:36	0° 8 05'25		min. Earth dist.	16331 Mar 17 10:51	15° Y 35'30	
minimum elong	16330 Apr 07 05:07	0° 8 01'47	0°44'22	inferior conj	16331 Mar 20 16:10	12° Υ 54'21	
asc. node	16330 Apr 07 05:52 16330 Apr 09 11:32	30°₹ Υ 27° Υ 57'01		minimum elong asc. node	16331 Mar 20 21:01 16331 Mar 27 08:48	12° Υ 44'12 8° Υ 26'45	2°06'49
morning rise	16330 Apr 14 04:15	24° Υ 59'35		morning rise	16331 Mar 28 08:21	8° Υ 07'46	
direct	16330 Apr 16 10:51	24° Y 35'53		direct	16331 Mar 30 09:14	7° Ƴ 51'25	
morning max el	16330 Apr 23 02:22	27° Y 57'26	17°46'53	morning max el	16331 Apr 06 17:12	11° Ƴ 30'57	18°01'27
	16330 Apr 24 23:37	0°8			16331 Apr 19 00:15	0°8	
morning set desc. node	16330 May 09 01:14 16330 May 12 01:43	22° 8 26'11 27° 8 44'05		morning set desc. node	16331 Apr 22 06:58 16331 Apr 28 22:33	6° と 00'37 18° と 11'37	
desc. node	16330 May 13 08:53	0°Ⅱ		dose. Hode	1000111p1 20 22.00	10 01137	
	-			superior conj	16331 May 02 11:43	24° 8 31'27	-0°29'04
superior conj	16330 May 20 19:09	12° ∏ 41'01		minimum elong	16331 May 02 09:15	24° 8 20'36	0°29'11
minimum elong max. Earth dist.	16330 May 20 12:59	12° Ⅱ 15'16 23° Ⅱ 42'42		max. Earth dist.	16331 May 05 15:14	0° П 7° П 28'00	1.42311 AU
max. Earm dist.	16330 May 27 12:38 16330 May 31 11:32	23 П 4242 0° 9	1.44128 AU	evening rise	16331 May 10 01:17 16331 May 15 12:23	7 П 2800 16° П 21'29	1.42311 AU
evening rise	16330 Jun 04 09:36	6° © 06'42		e vennig rise	16331 May 24 07:52	0. 2	
	16330 Jun 20 10:46	$0^{\circ}\Omega$			16331 Jun 15 11:24	$0^{\circ}\Omega$	
evening max el	16330 Jul 04 20:13	18° Ω 18'10	21°07'59	evening max el	16331 Jun 17 13:56	2°Ω12'38	22°25'26
asc. node retrograde	16330 Jul 06 10:13 16330 Jul 13 10:51	19° Ω 47'29 23° Ω 16'22		asc. node retrograde	16331 Jun 23 07:06 16331 Jun 27 08:18	6° Ω 45'10 7° Ω 55'19	
evening set	16330 Jul 17 19:56	23 δ (16 22 21° Ω 30'14		evening set	16331 Jul 02 04:55	5° Ω 52'41	
inferior conj	16330 Jul 23 01:23	15° Ω 19'15	3°08'09	inferior conj	16331 Jul 07 11:17		3°04'28
minimum elong	16330 Jul 23 01:33	15° Ω 18'40	3°07'37	minimum elong	16331 Jul 07 10:31	29°535'12	3°03'48
min. Earth dist.	16330 Jul 23 11:03	14° Ω 45'37	0.68896 AU	min Fasth Ji-4	16331 Jul 07 03:24	30°₹© 20°©44'46	0.60172 417
morning rise direct	16330 Jul 28 06:53 16330 Aug 02 10:09	8° Ω 58'44 6° Ω 45'21		min. Earth dist. morning rise	16331 Jul 07 07:47 16331 Jul 12 15:58	29°5644'46 23°5619'16	0.69173 AU
desc. node	16330 Aug 02 10:09	8° Ω 49'33		direct	16331 Jul 17 07:01	21°523'33	
	<u>-</u>						

desc. node	16331 Jul 25 21:44	26° © 12'58		morning rise	16332 Jun 26 03:13	7° 5 44'21	
morning max el	16331 Jul 26 09:14	26° © 41'17	21°42'25	direct	16332 Jun 30 06:18	6° ॐ 08′10	
	16331 Jul 29 10:40	$0^{\circ}\Omega$		morning max el	16332 Jul 08 05:20	10° © 38'24	20°24'52
	16331 Aug 20 01:15	0° m)		desc. node	16332 Jul 11 18:57	14° © 34'07	
morning set	16331 Aug 27 10:48	11° m)28'31			16332 Jul 23 03:52	$0^{\circ}\Omega$	
max. Earth dist.	16331 Sep 02 14:28	21° m 24'58	1.42212 AU	morning set	16332 Aug 05 21:16	20° Ω 36'34	
	16331 Sep 07 17:20	0∘ ⊽			16332 Aug 11 21:51	0° m y	
				max. Earth dist.	16332 Aug 15 01:14	4° ™ 59'15	1.44101 AU
superior conj	16331 Sep 10 05:39	4° £ 19'39	-1°13'20				
minimum elong	16331 Sep 10 11:41	4° £ 45'53	1°12'30	superior conj	16332 Aug 21 05:58	15° m 02'45	-1°46'38
asc. node	16331 Sep 19 07:56	20° ≏ 34'27		minimum elong	16332 Aug 21 13:54	15° m 35'27	1°46'06
evening rise	16331 Sep 21 04:09	23° ≏ 56'29			16332 Aug 30 02:53	0∘ ত	
	16331 Sep 24 11:56	0° M.		evening rise	16332 Sep 02 21:26	6° ഫ 31'38	
evening max el	16331 Oct 07 04:21	19° ™ 18'59	18°08'14	asc. node	16332 Sep 05 04:37	10° ≏ 31'12	
retrograde	16331 Oct 14 05:54	22°M56'15			16332 Sep 17 12:11	0° M	
evening set	16331 Oct 16 10:18	22°M35'56		evening max el	16332 Sep 19 18:15	2°M31'18	18°01'15
desc. node	16331 Oct 21 18:59	19° ™ 22'32		retrograde	16332 Sep 26 06:37	5° ™ 54'24	
inferior conj	16331 Oct 23 15:43	17° M 46'02	-0°35'46	evening set	16332 Sep 28 18:46	5°M23'35	
minimum elong	16331 Oct 23 14:28	17° M 48'49	0°34'48	inferior conj	16332 Oct 05 08:14	0° ™ 14'27	0°43'04
min. Earth dist.	16331 Oct 26 21:07	14° M 55'17	0.59633 AU	minimum elong	16332 Oct 05 09:28	0°M11'18	0°42'54
morning rise	16331 Oct 30 15:21	12°M09'06			16332 Oct 05 13:54	30° Ŗ Ω	
direct	16331 Nov 06 04:57	10°M08'45		desc. node	16332 Oct 07 16:16	27° ≏ 51'52	
morning max el	16331 Nov 20 11:19	17° M 53'31	27°45'15	min. Earth dist.	16332 Oct 08 06:33	27° ≏ 16'40	0.61927 AU
	16331 Nov 30 14:43	0° ∡ 7		morning rise	16332 Oct 11 21:31	24° ₽ 11'43	
asc. node	16331 Dec 16 08:19	26° х 00′43		direct	16332 Oct 18 14:01	21° ♀ 50'59	
	16331 Dec 18 09:19	0° ප		morning max el	16332 Nov 01 17:13	29° ≏ 47'17	27°58'49
morning set	16331 Dec 22 12:27	8° る 28'55			16332 Nov 01 22:20	0° M ₊	
max. Earth dist.	16331 Dec 28 18:59	22° る 11'53	1.31005 AU		16332 Nov 23 15:29	0° ∡	
				asc. node	16332 Dec 02 05:21	15° ∡ ¹44'51	
superior conj	16331 Dec 29 12:22	23° る 49'09		morning set	16332 Dec 05 12:44	22° ∡ ¹24'29	
minimum elong	16331 Dec 29 11:13	23° る 42'42	1°34'55		16332 Dec 09 03:09	0°ප	
	16332 Jan 01 06:40	0° ≈		max. Earth dist.	16332 Dec 10 23:34	4° る 01'04	1.31474 AU
evening rise	16332 Jan 05 05:21	8° ≈ 40'38				_	
	16332 Jan 16 01:23	0°) {		superior conj	16332 Dec 12 22:06	8°る17'11	1°24'28
desc. node	16332 Jan 17 18:06	2°) 54'45		minimum elong	16332 Dec 12 20:09	8° る 06'23	1°24'56
evening max el	16332 Feb 02 18:53	24°) € 13'54	26°13'13	evening rise	16332 Dec 19 15:20	23° පි 06'47	
. 1	16332 Feb 10 21:49	0°Υ			16332 Dec 22 21:18	0° ≈	
retrograde	16332 Feb 16 18:16	1° Υ 20'19		desc. node	16333 Jan 03 14:55	21°≈15'28 0° ¥	
evening set	16332 Feb 22 23:04	29°) 48′58			16333 Jan 10 00:35		24945107
min Earth diat	16332 Feb 22 13:34	30°₹) 27°¥11114	0.57851 AU	evening max el	16333 Jan 14 08:44 16333 Jan 28 02:33	4°) (40'30	24-45 07
min. Earth dist. inferior conj	16332 Feb 27 08:05 16332 Mar 01 09:51	24° H 58'21		retrograde evening set	16333 Feb 02 11:21	11 X 32 29 10° X 28'39	
minimum elong	16332 Mar 01 18:11	24°) (3821 24°) (43'17		min. Earth dist.	16333 Feb 07 20:46	7° H 40'40	0.55983 AU
morning rise	16332 Mar 09 16:34	20°) 33'24	3 37 03	inferior conj	16333 Feb 10 06:18	6° ∺ 10'19	
direct	16332 Mar 11 15:36	20° X 33'24		minimum elong	16333 Feb 10 00:18	5° X 55'50	
asc. node	16332 Mar 13 06:07	20° X 20'45		morning rise	16333 Feb 18 22:01	2° ∺ 06'17	3 01 43
morning max el	16332 Mar 20 01:27	24° H 29'20	18°36'16	direct	16333 Feb 21 02:16	1° X 53'19	
morning max ci	16332 Mar 24 14:26	0° Υ	10 30 10	asc. node	16333 Feb 28 03:27	4°) 19'46	
morning set	16332 Apr 05 01:12	20° Υ 07'44		morning max el	16333 Mar 02 22:55		19°33'15
morning sec	16332 Apr 10 04:07	0°8		morning max or	16333 Mar 17 20:34	0° Υ	17 33 13
	10332 Apr 10 04.07	۰ ن		morning set	16333 Mar 20 03:53	4° Υ 35'20	
superior conj	16332 Apr 14 00:36	7° 8 16'20	0°06'34			. , 55 20	
minimum elong	16332 Apr 14 01:02	7° 8 18'20	0°06'08	superior conj	16333 Mar 28 05:24	20° Y 43'16	0°37'12
behind sun begin	16332 Apr 13 18:30	6° 8 47'56		minimum elong	16333 Mar 28 07:26	20° Y ′53'14	
behind sun end	16332 Apr 14 07:34	7° 8 48'39		desc. node	16333 Apr 01 16:01	29° Υ 14'27	0 20 .0
desc. node	16332 Apr 14 19:18	8° 8 42'58			16333 Apr 02 01:45	0°8	
max. Earth dist.	16332 Apr 21 09:42	20° 8 32'45	1.40126 AU	max. Earth dist.	16333 Apr 03 15:45		1.37818 AU
evening rise	16332 Apr 25 11:57	27° 8 31'12		evening rise	16333 Apr 07 08:12	9° 8 33'16	
•	16332 Apr 26 23:49	$\Pi^{\circ}0$		•	16333 Apr 19 18:33	$\Pi^{\circ}0$	
	16332 May 16 21:19	0∘ ©		evening max el	16333 May 12 17:44	0°502'15	25°06'07
evening max el	16332 May 30 04:25	16° 5 07'40	23°47'01		16333 May 12 16:49	0 \circ \odot	
asc. node	16332 Jun 09 04:04	22°528'51		retrograde	16333 May 24 18:04	7° 5 01'44	
retrograde	16332 Jun 10 03:04	22°532'46		asc. node	16333 May 27 01:07	6° © 39'55	
evening set	16332 Jun 15 11:23	20°516'03		evening set	16333 May 30 13:41	4° 5 34'43	
min. Earth dist.	16332 Jun 20 04:16	14° © 45'41	0.68953 AU		16333 Jun 03 16:45	30°RⅡ	
inferior conj	16332 Jun 20 20:52	13° © 48'56	2°50'23	min. Earth dist.	16333 Jun 03 22:29	29° Ⅱ 41′27	0.68247 AU
minimum elong	16332 Jun 20 19:18	13° © 54'16	2°49'28	inferior conj	16333 Jun 05 04:10	28° Ⅱ 04'02	2°25'38

minimum elong	16333 Jun 05 02:05	28° Ⅱ 10'53	2°24'28	morning rise	16334 May 26 00:51	6° Ⅱ 29'28	
morning rise	16333 Jun 10 14:50	22° Ⅱ 09'11		direct	16334 May 29 05:58	5° Ⅱ 31′03	
direct	16333 Jun 14 06:29	20° Ⅲ 52'35		morning max el	16334 Jun 04 18:39	8° Ⅱ 59'24	18°32'27
morning max el	16333 Jun 21 08:37	24° Ⅱ 45'40	19°20'44	desc. node	16334 Jun 15 13:13	23° I I12'06	
-	16333 Jun 25 22:36	0ಂತಾ			16334 Jun 19 23:14	0°ಅ	
desc. node	16333 Jun 28 16:07	3° 5 37'32		morning set	16334 Jun 25 20:40	9°513'51	
greatest brilliancy	16333 Jul 04 01:07	11° © 19'36	-0.7m		16334 Jul 09 03:22	$0^{\circ}\Omega$	
morning set	16333 Jul 16 01:55	29° © 33'38					
	16333 Jul 16 08:47	$0^{\circ}\Omega$		superior conj	16334 Jul 11 18:22	4° Ω 05′28	-2°13'35
max. Earth dist.	16333 Jul 28 17:14	19° Ω 10′03	1.45401 AU	minimum elong	16334 Jul 11 16:14	3° £ 57′11	2°14'10
				max. Earth dist.	16334 Jul 11 12:30	3° Ω 42'38	1.45996 AU
superior conj	16333 Aug 01 07:28	24° Ω 50′04	-2°09'03	evening rise	16334 Jul 27 12:33	28° Ω 47'46	
minimum elong	16333 Aug 01 12:46	25° Ω 11′02	2°09'16		16334 Jul 28 06:50	0° m)	
	16333 Aug 04 13:20	0° m		greatest brilliancy	16334 Aug 04 11:55	11° m)21'48	-0.8m
evening rise	16333 Aug 15 17:29	18° m) 11'21		asc. node	16334 Aug 09 22:02	19° m 37'29	
_	16333 Aug 22 21:51	0∘ ⊽		evening max el	16334 Aug 17 21:55	29° m 50'53	18°41'37
asc. node	16333 Aug 23 01:18	0° ჲ 14'00			16334 Aug 18 01:39	0∘ ত	
evening max el	16333 Sep 03 09:08	16° ₽ 04'27	18°12'42	retrograde	16334 Aug 24 11:49	3° £ 24'28	
retrograde	16333 Sep 09 17:53	19° ₽ 26'22		evening set	16334 Aug 27 18:03	2° ≙ 23'49	
evening set	16333 Sep 12 14:44	18° Ω 41'53	1040140		16334 Aug 30 14:00	30°R, M)	202.412.0
inferior conj	16333 Sep 18 15:21	13° Ω 16'15	1°42'40	inferior conj	16334 Sep 02 09:17	•	2°24'39
minimum elong	16333 Sep 18 17:35	13° Ω 09'54 10° Ω 30'10	1°42'04	minimum elong	16334 Sep 02 11:29	26° My 36'51	2°24'00
min. Earth dist.	16333 Sep 21 02:02 16333 Sep 24 18:37	6° £ 57'44	0.64100 AU	min. Earth dist.	16334 Sep 04 06:23	24° Mp 24'17 20° Mp 18'00	0.65988 AU
morning rise desc. node	16333 Sep 24 18.37 16333 Sep 24 13:36	0 <u>≈</u> 37 44 7° <u>≈</u> 07'41		morning rise desc. node	16334 Sep 08 03:51 16334 Sep 11 10:58	18° m) 15'19	
direct	16333 Oct 01 08:38	7 <u>□</u> 0741 4° <u>Ω</u> 24'15		direct	16334 Sep 14 11:09	17° m) 40'40	
morning max el	16333 Oct 01 08:38	12° £ 22'19	27°35'20	morning max el	16334 Sep 27 14:36	25° M) 26'31	26°41'41
morning max ci	16333 Oct 19 05:15	0°M₁	27 33 20	morning max ci	16334 Oct 01 18:53	ე∘ <u>ი</u>	20 41 41
	16333 Nov 16 03:48	0° ⊼			16334 Oct 22 18:20	0° ™	
morning set	16333 Nov 19 04:46	5° х 755′08		morning set	16334 Nov 02 09:32	18°ML53'49	
asc. node	16333 Nov 19 02:17	5° ,⊼' 42'47		asc. node	16334 Nov 05 23:10	25°M49'31	
max. Earth dist.	16333 Nov 23 21:14	15° х 30'38	1.32508 AU	max. Earth dist.	16334 Nov 06 09:24	26°M40'24	1.34099 AU
					16334 Nov 08 01:05	0° ∡ 7	
superior conj	16333 Nov 27 04:15	22° ∡ ³32′17	1°08'25				
minimum elong	16333 Nov 27 01:53	22° ∡ 19'31	1°08'44	superior conj	16334 Nov 11 04:26	6° ∡ ¹28'11	0°46'10
	16333 Nov 30 14:33	5°0		minimum elong	16334 Nov 11 02:17	6° ∡¹ 16'57	0°46'24
evening rise	16333 Nov 30 14:33 16333 Dec 04 02:07	0°궁 7°궁33'34		minimum elong evening rise	16334 Nov 11 02:17 16334 Nov 18 11:51	6° х 16′57 21° х 56′24	0°46'24
evening rise				· ·		21° メ 56'24 0°る	0°46'24
evening rise desc. node	16333 Dec 04 02:07 16333 Dec 15 15:59 16333 Dec 21 11:50	7° ට 33'34 0°≈ 8°≈38'22		· ·	16334 Nov 18 11:51	21° 차 56'24 0°중 24°중43'00	
desc. node evening max el	16333 Dec 04 02:07 16333 Dec 15 15:59 16333 Dec 21 11:50 16333 Dec 26 18:11	7° る 33'34 0°≈	23°02'22	evening rise	16334 Nov 18 11:51 16334 Nov 22 09:33 16334 Dec 08 08:50 16334 Dec 08 08:23	21° メ 56'24 0°る 24°る43'00 24°る41'56	
desc. node evening max el retrograde	16333 Dec 04 02:07 16333 Dec 15 15:59 16333 Dec 21 11:50 16333 Dec 26 18:11 16334 Jan 08 21:48	7°る33'34 0°≈ 8°≈38'22 14°≈37'49 21°≈08'00	23°02'22	evening rise desc. node evening max el	16334 Nov 18 11:51 16334 Nov 22 09:33 16334 Dec 08 08:50	21° x 56'24 0°る 24°る43'00 24°る41'56 0°≈	
desc. node evening max el retrograde evening set	16333 Dec 04 02:07 16333 Dec 15 15:59 16333 Dec 21 11:50 16333 Dec 26 18:11 16334 Jan 08 21:48 16334 Jan 13 01:54	7°₹33'34 0°≈ 8°≈38'22 14°≈37'49 21°≈08'00 20°≈30'15		evening rise desc. node evening max el retrograde	16334 Nov 18 11:51 16334 Nov 22 09:33 16334 Dec 08 08:50 16334 Dec 08 08:23 16334 Dec 16 10:21 16334 Dec 20 07:45	21° ₹ 56'24 0° ₹ 24° ₹ 43'00 24° ₹ 41'56 0° ≈ 0° ≈ 37'04	
desc. node evening max el retrograde evening set min. Earth dist.	16333 Dec 04 02:07 16333 Dec 15 15:59 16333 Dec 21 11:50 16333 Dec 26 18:11 16334 Jan 08 21:48 16334 Jan 13 01:54 16334 Jan 20 04:15	7°₹33'34 0°≈ 8°≈38'22 14°≈37'49 21°≈08'00 20°≈30'15 17°≈12'48	0.54744 AU	evening rise desc. node evening max el	16334 Nov 18 11:51 16334 Nov 22 09:33 16334 Dec 08 08:50 16334 Dec 08 08:23 16334 Dec 16 10:21 16334 Dec 20 07:45 16334 Dec 23 06:01	21° ₹ 56'24 0° ₹ 24° ₹ 43'00 24° ₹ 41'56 0° ≈ 0° ≈ 37'04 0° ≈ 17'22	
desc. node evening max el retrograde evening set min. Earth dist. inferior conj	16333 Dec 04 02:07 16333 Dec 15 15:59 16333 Dec 21 11:50 16333 Dec 26 18:11 16334 Jan 08 21:48 16334 Jan 13 01:54 16334 Jan 20 04:15 16334 Jan 21 07:33	7°₹33'34 0°≈ 8°≈38'22 14°≈37'49 21°≈08'00 20°≈30'15 17°≈12'48 16°≈33'47	0.54744 AU -5°56'24	desc. node evening max el retrograde evening set	16334 Nov 18 11:51 16334 Nov 22 09:33 16334 Dec 08 08:50 16334 Dec 08 08:23 16334 Dec 16 10:21 16334 Dec 20 07:45 16334 Dec 23 06:01 16334 Dec 24 08:59	21°₹56'24 0°♂ 24°♂43'00 24°♂41'56 0°≈ 0°≈37'04 0°≈17'22 30°₹♂	21°22'56
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	16333 Dec 04 02:07 16333 Dec 15 15:59 16333 Dec 21 11:50 16333 Dec 26 18:11 16334 Jan 08 21:48 16334 Jan 13 01:54 16334 Jan 20 04:15 16334 Jan 21 07:33 16334 Jan 21 11:26	7°♂33'34 0°≈ 8°≈38'22 14°≈37'49 21°≈08'00 20°≈30'15 17°≈12'48 16°≈33'47 16°≈28'13	0.54744 AU -5°56'24	evening rise desc. node evening max el retrograde evening set inferior conj	16334 Nov 18 11:51 16334 Nov 22 09:33 16334 Dec 08 08:50 16334 Dec 08 08:23 16334 Dec 16 10:21 16334 Dec 20 07:45 16334 Dec 23 06:01 16334 Dec 24 08:59 16334 Dec 31 22:33	21° \$\times 56'24 0° \$\times 24° \$\times 43'00 24° \$\times 41'56 0° \$\imes 0° \$\imes 37'04 0° \$\imes 17'22 30° \$\times 5 26° \$\times 27'30	21°22'56 -5°52'13
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	16333 Dec 04 02:07 16333 Dec 15 15:59 16333 Dec 21 11:50 16333 Dec 26 18:11 16334 Jan 08 21:48 16334 Jan 13 01:54 16334 Jan 20 04:15 16334 Jan 21 07:33 16334 Jan 21 11:26 16334 Jan 29 22:14	7°♂33'34 0°≈ 8°≈38'22 14°≈37'49 21°≈08'00 20°≈30'15 17°≈12'48 16°≈33'47 16°≈28'13 12°≈43'39	0.54744 AU -5°56'24	evening rise desc. node evening max el retrograde evening set inferior conj minimum elong	16334 Nov 18 11:51 16334 Nov 22 09:33 16334 Dec 08 08:50 16334 Dec 08 08:23 16334 Dec 16 10:21 16334 Dec 20 07:45 16334 Dec 23 06:01 16334 Dec 24 08:59 16334 Dec 31 22:33 16334 Dec 31 17:07	21° \$\times 56'24 0° \$\times 24° \$\times 43'00 24° \$\times 41'56 0° \$\infty 37'04 0° \$\infty 17'22 30° \$\times 527'30 26° \$\times 25'08	21°22'56 -5°52'13 5°50'59
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	16333 Dec 04 02:07 16333 Dec 15 15:59 16333 Dec 21 11:50 16333 Dec 26 18:11 16334 Jan 08 21:48 16334 Jan 13 01:54 16334 Jan 20 04:15 16334 Jan 21 07:33 16334 Jan 21 11:26 16334 Jan 29 22:14 16334 Feb 01 18:42	7°♂33'34 0°≈ 8°≈38'22 14°≈37'49 21°≈08'00 20°≈30'15 17°≈12'48 16°≈33'47 16°≈28'13 12°≈43'39 12°≈24'33	0.54744 AU -5°56'24 5°55'35	evening rise desc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	16334 Nov 18 11:51 16334 Nov 22 09:33 16334 Dec 08 08:50 16334 Dec 16 10:21 16334 Dec 20 07:45 16334 Dec 23 06:01 16334 Dec 24 08:59 16334 Dec 31 22:33 16334 Dec 31 17:07 16335 Jan 01 09:32	21° \$756'24 0° る 24° る43'00 24° る41'56 0° ≈ 0° ≈37'04 0° ≈17'22 30° Rる 26° る27'30 26° る35'08 26° る12'04	21°22'56 -5°52'13
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	16333 Dec 04 02:07 16333 Dec 15 15:59 16333 Dec 21 11:50 16333 Dec 26 18:11 16334 Jan 08 21:48 16334 Jan 13 01:54 16334 Jan 20 04:15 16334 Jan 21 07:33 16334 Jan 21 11:26 16334 Jan 29 22:14 16334 Feb 01 18:42 16334 Feb 13 06:04	7°♂33'34 0°≈ 8°≈38'22 14°≈37'49 21°≈08'00 20°≈30'15 17°≈12'48 16°≈33'47 16°≈28'13 12°≈43'39 12°≈24'33 17°≈57'25	0.54744 AU -5°56'24	evening rise desc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	16334 Nov 18 11:51 16334 Nov 22 09:33 16334 Dec 08 08:50 16334 Dec 16 10:21 16334 Dec 20 07:45 16334 Dec 23 06:01 16334 Dec 24 08:59 16334 Dec 31 22:33 16334 Dec 31 17:07 16335 Jan 01 09:32 16335 Jan 09 04:35	21° ₹56'24 0° ₹ 24° ₹43'00 24° ₹41'56 0° ≈ 0° ≈37'04 0° ≈17'22 30° ₹₹ 26° ₹27'30 26° ₹35'08 26° ₹12'04 22° ₹37'48	21°22'56 -5°52'13 5°50'59
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	16333 Dec 04 02:07 16333 Dec 15 15:59 16333 Dec 21 11:50 16333 Dec 26 18:11 16334 Jan 08 21:48 16334 Jan 13 01:54 16334 Jan 20 04:15 16334 Jan 21 07:33 16334 Jan 21 11:26 16334 Jan 29 22:14 16334 Feb 01 18:42 16334 Feb 13 06:04 16334 Feb 15 00:47	7°♂33'34 0°≈ 8°≈38'22 14°≈37'49 21°≈08'00 20°≈30'15 17°≈12'48 16°≈28'13 12°≈43'39 12°≈24'33 17°≈57'25 19°≈48'07	0.54744 AU -5°56'24 5°55'35	evening rise desc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	16334 Nov 18 11:51 16334 Nov 22 09:33 16334 Dec 08 08:50 16334 Dec 08 08:23 16334 Dec 16 10:21 16334 Dec 20 07:45 16334 Dec 23 06:01 16334 Dec 24 08:59 16334 Dec 31 22:33 16334 Dec 31 17:07 16335 Jan 01 09:32 16335 Jan 09 04:35 16335 Jan 13 02:36	21° ズ 56'24 0° で 24° で 43'00 24° で 41'56 0° ※ 0° ※ 37'04 0° ※ 17'22 30° Rで 26° で 27'30 26° で 35'08 26° で 312'04 22° で 37'48 22° で 304'33	21°22'56 -5°52'13 5°50'59 0.54375 AU
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	16333 Dec 04 02:07 16333 Dec 15 15:59 16333 Dec 21 11:50 16333 Dec 26 18:11 16334 Jan 08 21:48 16334 Jan 13 01:54 16334 Jan 20 04:15 16334 Jan 21 07:33 16334 Jan 21 11:26 16334 Jan 29 22:14 16334 Feb 01 18:42 16334 Feb 13 06:04 16334 Feb 15 00:47 16334 Feb 22 09:24	7°♂33'34 0°≈ 8°≈38'22 14°≈37'49 21°≈08'00 20°≈30'15 17°≈12'48 16°≈28'13 12°≈43'39 12°≈24'33 17°≈57'25 19°≈48'07 0° ★	0.54744 AU -5°56'24 5°55'35	evening rise desc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	16334 Nov 18 11:51 16334 Nov 22 09:33 16334 Dec 08 08:50 16334 Dec 08 08:23 16334 Dec 16 10:21 16334 Dec 20 07:45 16334 Dec 23 06:01 16334 Dec 24 08:59 16334 Dec 31 22:33 16334 Dec 31 17:07 16335 Jan 01 09:32 16335 Jan 09 04:35 16335 Jan 13 02:36 16335 Jan 25 22:39	21° \$\times 56'24 0° \$\times 24° \$\times 43'00 24° \$\times 41'56 0° \$\times 0° \$\times 37'04 0° \$\times 17'22 30° \$\times 5 26° \$\times 25'08 26° \$\times 35'08 26° \$\times 35'48 22° \$\times 37'48 22° \$\times 04'33 28° \$\times 19'20	21°22'56 -5°52'13 5°50'59 0.54375 AU
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	16333 Dec 04 02:07 16333 Dec 15 15:59 16333 Dec 26 18:11 16334 Jan 08 21:48 16334 Jan 13 01:54 16334 Jan 20 04:15 16334 Jan 21 07:33 16334 Jan 21 11:26 16334 Jan 29 22:14 16334 Feb 01 18:42 16334 Feb 13 06:04 16334 Feb 15 00:47 16334 Feb 22 09:24 16334 Mar 04 11:59	7°♂33'34 0°≈ 8°≈38'22 14°≈37'49 21°≈08'00 20°≈30'15 17°≈12'48 16°≈28'13 12°≈43'39 12°≈24'33 17°≈57'25 19°≈48'07 0° ₩ 19° ₩ 14'50	0.54744 AU -5°56'24 5°55'35	evening rise desc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	16334 Nov 18 11:51 16334 Nov 22 09:33 16334 Dec 08 08:50 16334 Dec 08 08:23 16334 Dec 16 10:21 16334 Dec 20 07:45 16334 Dec 23 06:01 16334 Dec 24 08:59 16334 Dec 31 22:33 16334 Dec 31 17:07 16335 Jan 01 09:32 16335 Jan 09 04:35 16335 Jan 13 02:36 16335 Jan 25 22:39 16335 Jan 27 14:29	21° ズ 56'24 0° 云 24° 云 43'00 24° 云 41'56 0° 念 0° 念 37'04 0° 念 17'22 30° R 云 26° 云 27'30 26° 云 35'08 26° 云 35'08 26° 云 35'48 22° 云 04'33 28° 云 19'20 0° 念	21°22'56 -5°52'13 5°50'59 0.54375 AU
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	16333 Dec 04 02:07 16333 Dec 15 15:59 16333 Dec 21 11:50 16333 Dec 26 18:11 16334 Jan 08 21:48 16334 Jan 13 01:54 16334 Jan 20 04:15 16334 Jan 21 07:33 16334 Jan 21 11:26 16334 Jan 29 22:14 16334 Feb 01 18:42 16334 Feb 13 06:04 16334 Feb 15 00:47 16334 Feb 22 09:24	7°♂33'34 0°≈ 8°≈38'22 14°≈37'49 21°≈08'00 20°≈30'15 17°≈12'48 16°≈28'13 12°≈43'39 12°≈24'33 17°≈57'25 19°≈48'07 0° ★	0.54744 AU -5°56'24 5°55'35	evening rise desc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	16334 Nov 18 11:51 16334 Nov 22 09:33 16334 Dec 08 08:50 16334 Dec 08 08:23 16334 Dec 16 10:21 16334 Dec 20 07:45 16334 Dec 23 06:01 16334 Dec 24 08:59 16334 Dec 31 22:33 16334 Dec 31 17:07 16335 Jan 01 09:32 16335 Jan 01 09:32 16335 Jan 13 02:36 16335 Jan 25 22:39 16335 Jan 27 14:29 16335 Feb 01 22:06	21° ズ 56'24 0° 云 24° 云 43'00 24° 云 41'56 0° 念 0° 念 37'04 0° 念 17'22 30° R 云 26° 云 27'30 26° 云 35'08 26° 云 12'04 22° 云 37'48 22° 云 04'33 28° 云 19'20 0° 念 6° 念 35'53	21°22'56 -5°52'13 5°50'59 0.54375 AU
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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	16333 Dec 04 02:07 16333 Dec 21 11:50 16333 Dec 26 18:11 16334 Jan 08 21:48 16334 Jan 13 01:54 16334 Jan 20 04:15 16334 Jan 21 07:33 16334 Jan 21 11:26 16334 Jan 29 22:14 16334 Feb 01 18:42 16334 Feb 13 06:04 16334 Feb 15 00:47 16334 Feb 22 09:24 16334 Mar 04 11:59 16334 Mar 09 15:38 16334 Mar 11 22:02 16334 Mar 12 00:34 16334 Mar 17 00:02 16334 Mar 19 12:43 16334 Mar 20 22:18 16334 Mar 25 04:17 16334 Apr 13 12:57 16334 Apr 25 07:21	7°♂33'34 0°≈ 8°≈38'22 14°≈37'49 21°≈08'00 20°≈30'15 17°≈12'48 16°≈28'13 12°≈43'39 12°≈24'33 17°≈57'25 19°≈48'07 0°¥ 19°¥14'50 0°Y 4°Y41'03 4°Y54'00 14°Y51'33 19°Y42'30 22°Y19'36 0°B 0°II 13°I53'10	0.54744 AU -5°56'24 5°55'35 20°53'27 1°01'45 1°01'23 1.35637 AU	evening rise desc. node evening max el 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	16334 Nov 18 11:51 16334 Nov 22 09:33 16334 Dec 08 08:50 16334 Dec 08 08:23 16334 Dec 16 10:21 16334 Dec 20 07:45 16334 Dec 23 06:01 16334 Dec 24 08:59 16334 Dec 31 17:07 16335 Jan 01 09:32 16335 Jan 01 09:32 16335 Jan 13 02:36 16335 Jan 25 22:39 16335 Jan 27 14:29 16335 Feb 01 22:06 16335 Feb 15 01:39 16335 Feb 16 23:02 16335 Feb 24 01:16 16335 Feb 27 14:58 16335 Mar 01 06:06 16335 Mar 04 02:31 16335 Mar 06 09:24	21° \$756'24 0° \$7 24° \$743'00 24° \$741'56 0° \$8 0° \$837'04 0° \$17'22 30° \$7 26° \$735'08 26° \$735'08 26° \$7312'04 22° \$737'48 22° \$704'33 28° \$719'20 0° \$8 6° \$835'53 0° \$1 3° \$758'24 18° \$759'14 19° \$11'09 26° \$740'19 0° \$7 5° \$739'29 10° \$702'26	21°22'56 -5°52'13 5°50'59 0.54375 AU 22°34'04 1°19'57 1°19'54 1.33773 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	16333 Dec 04 02:07 16333 Dec 21 11:50 16333 Dec 26 18:11 16334 Jan 08 21:48 16334 Jan 13 01:54 16334 Jan 20 04:15 16334 Jan 21 07:33 16334 Jan 21 11:26 16334 Jan 29 22:14 16334 Feb 01 18:42 16334 Feb 13 06:04 16334 Feb 15 00:47 16334 Feb 22 09:24 16334 Mar 04 11:59 16334 Mar 09 15:38 16334 Mar 11 22:02 16334 Mar 12 00:34 16334 Mar 17 00:02 16334 Mar 19 12:43 16334 Mar 20 22:18 16334 Mar 25 04:17 16334 Apr 13 12:57 16334 Apr 25 07:21 16334 May 08 04:15	7°♂33'34 0°≈ 8°≈38'22 14°≈37'49 21°≈08'00 20°≈30'15 17°≈12'48 16°≈28'13 12°≈43'39 12°≈24'33 17°≈57'25 19°≈48'07 0°∀ 4°Y41'03 4°Y54'00 14°Y51'33 19°Y42'30 22°Y19'36 0°Ы 0°П 13°П53'10 21°П14'51	0.54744 AU -5°56'24 5°55'35 20°53'27 1°01'45 1°01'23 1.35637 AU	evening rise desc. node evening max el 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	16334 Nov 18 11:51 16334 Nov 22 09:33 16334 Dec 08 08:50 16334 Dec 08 08:23 16334 Dec 16 10:21 16334 Dec 20 07:45 16334 Dec 23 06:01 16334 Dec 24 08:59 16334 Dec 31 17:07 16335 Jan 01 09:32 16335 Jan 01 09:32 16335 Jan 13 02:36 16335 Jan 25 22:39 16335 Jan 27 14:29 16335 Feb 01 22:06 16335 Feb 15 01:39 16335 Feb 23 23:02 16335 Feb 24 01:16 16335 Feb 27 14:58 16335 Mar 01 06:06 16335 Mar 04 02:31 16335 Mar 06 09:24 16335 Mar 06 09:24 16335 Mar 17 21:28	21° \$756'24 0° \$24° \$343'00 24° \$41'56 0° \$20° \$37'04 0° \$17'22 30° \$527'30 26° \$27'30 26° \$35'08 26° \$12'04 22° \$37'48 22° \$04'33 28° \$19'20 0° \$20° \$35'53 0° \$35'53 0° \$45'53'53 0° \$45'53'53'53'53'53'53'53'53'53'53'53'53'53	21°22'56 -5°52'13 5°50'59 0.54375 AU 22°34'04 1°19'57 1°19'54 1.33773 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 evening max el retrograde asc. node evening set min. Earth dist.	16333 Dec 04 02:07 16333 Dec 21 11:50 16333 Dec 26 18:11 16334 Jan 08 21:48 16334 Jan 13 01:54 16334 Jan 20 04:15 16334 Jan 21 07:33 16334 Jan 21 11:26 16334 Jan 29 22:14 16334 Feb 01 18:42 16334 Feb 13 06:04 16334 Feb 15 00:47 16334 Feb 22 09:24 16334 Mar 04 11:59 16334 Mar 09 15:38 16334 Mar 11 22:02 16334 Mar 12 00:34 16334 Mar 17 00:02 16334 Mar 19 12:43 16334 Mar 20 22:18 16334 Mar 30 04:15 16334 May 18 12:25	7°δ33'34 0°≈ 8°≈38'22 14°≈37'49 21°≈08'00 20°≈30'15 17°≈12'48 16°≈28'13 12°≈43'39 12°≈43'39 12°≈48'07 0° Ж 19° Ж14'50 0° Υ 4° Υ41'03 4° Υ54'00 14° Υ51'33 19° Υ42'30 22° Υ19'36 0° Β 0° Π 13° Π53'10 21° Π14'51 19° Π06'03 18° Π42'41 14° Π25'03	0.54744 AU -5°56'24 5°55'35 20°53'27 1°01'45 1°01'23 1.35637 AU	evening rise desc. node evening max el 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	16334 Nov 18 11:51 16334 Nov 22 09:33 16334 Dec 08 08:50 16334 Dec 08 08:23 16334 Dec 16 10:21 16334 Dec 20 07:45 16334 Dec 23 06:01 16334 Dec 24 08:59 16334 Dec 31 22:33 16334 Dec 31 17:07 16335 Jan 01 09:32 16335 Jan 09 04:35 16335 Jan 25 22:39 16335 Jan 27 14:29 16335 Feb 01 22:06 16335 Feb 15 01:39 16335 Feb 16 23:02 16335 Feb 23 23:02 16335 Feb 24 01:16 16335 Feb 27 14:58 16335 Mar 01 06:06 16335 Mar 04 02:31 16335 Mar 06 09:24 16335 Mar 06 09:24 16335 Apr 07 21:11 16335 Apr 10 14:42 16335 Apr 10 14:42 16335 Apr 21 08:25	21° \$\times 56'24 0° \$\times 24° \$\times 43'00 24° \$\times 41'56 0° \$\times 0° \$\times 37'04 0° \$\times 17'22 30° \$\times 26° \$\times 27'30 26° \$\times 35'08 26° \$\times 12'04 22° \$\times 37'48 22° \$\times 04'33 28° \$\times 19'20 0° \$\times 6° \$\times 35'53 0° \$\times 13'08 \$\times 14'109 26° \$\times 40'19 0° \$\times 11'09 26° \$\times 40'19 0° \$\times 10'250 0° \$\times 10'255	21°22'56 -5°52'13 5°50'59 0.54375 AU 22°34'04 1°19'57 1°19'54 1.33773 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 evening max el retrograde asc. node evening set min. Earth dist. inferior conj	16333 Dec 04 02:07 16333 Dec 21 11:50 16333 Dec 26 18:11 16334 Jan 08 21:48 16334 Jan 13 01:54 16334 Jan 20 04:15 16334 Jan 21 07:33 16334 Jan 21 11:26 16334 Jan 29 22:14 16334 Feb 01 18:42 16334 Feb 13 06:04 16334 Feb 15 00:47 16334 Feb 22 09:24 16334 Mar 04 11:59 16334 Mar 09 15:38 16334 Mar 11 22:02 16334 Mar 12 00:34 16334 Mar 17 00:02 16334 Mar 19 12:43 16334 Mar 20 22:18 16334 Mar 31 32:57 16334 May 08 04:15 16334 May 13 22:15 16334 May 18 12:25 16334 May 18 12:25 16334 May 18 12:25	7°δ33'34 0°≈ 8°≈38'22 14°≈37'49 21°≈08'00 20°≈30'15 17°≈12'48 16°≈28'13 12°≈43'39 12°≈43'39 12°≈48'07 0° Ж 19° Ж14'50 0° Υ 4° Υ41'03 4° Υ54'00 14° Υ51'33 19° Υ42'30 22° Υ19'36 0° Β 0° Π 13° Π53'10 21° Π14'51 19° Π06'03 18° Π42'41 14° Π25'03 12° Π13'21	0.54744 AU -5°56'24 5°55'35 20°53'27 1°01'45 1°01'23 1.35637 AU 26°15'21 0.67080 AU 1°49'26	evening rise desc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	16334 Nov 18 11:51 16334 Nov 22 09:33 16334 Dec 08 08:50 16334 Dec 08 08:23 16334 Dec 16 10:21 16334 Dec 20 07:45 16334 Dec 23 06:01 16334 Dec 24 08:59 16334 Dec 31 22:33 16334 Dec 31 17:07 16335 Jan 01 09:32 16335 Jan 09 04:35 16335 Jan 25 22:39 16335 Jan 27 14:29 16335 Feb 01 22:06 16335 Feb 15 01:39 16335 Feb 23 23:02 16335 Feb 24 01:16 16335 Feb 27 14:58 16335 Mar 01 06:06 16335 Mar 04 02:31 16335 Mar 04 02:31 16335 Mar 04 02:31 16335 Mar 07 21:11 16335 Apr 07 21:11 16335 Apr 10 14:42 16335 Apr 21 08:25 16335 Apr 27 22:21	21° \$\times 56'24 0°\$\times 24°\$\times 43'00 24°\$\times 41'56 0°\$\times 0°\$\times 37'04 0°\$\times 17'22 30°\$\times 26°\$\times 27'30 26°\$\times 35'08 26°\$\times 12'04 22°\$\times 37'48 22°\$\times 04'33 28°\$\times 19'20 0°\$\times 6°\$\times 35'53 0°\$\times 13'\times 45'14 19°\$\times 11'09 26°\$\times 40'19 0°\$\times 50'\$\times 13'35 0°\$\times 10'\$\times 27"\$\times 31'35 0°\$\times 102'55 2°\$\times 131'42	21°22'56 -5°52'13 5°50'59 0.54375 AU 22°34'04 1°19'57 1°19'54 1.33773 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 evening max el retrograde asc. node evening set min. Earth dist.	16333 Dec 04 02:07 16333 Dec 21 11:50 16333 Dec 26 18:11 16334 Jan 08 21:48 16334 Jan 13 01:54 16334 Jan 20 04:15 16334 Jan 21 07:33 16334 Jan 21 11:26 16334 Jan 29 22:14 16334 Feb 01 18:42 16334 Feb 13 06:04 16334 Feb 15 00:47 16334 Feb 22 09:24 16334 Mar 04 11:59 16334 Mar 09 15:38 16334 Mar 11 22:02 16334 Mar 12 00:34 16334 Mar 17 00:02 16334 Mar 19 12:43 16334 Mar 20 22:18 16334 Mar 30 04:15 16334 May 18 12:25	7°δ33'34 0°≈ 8°≈38'22 14°≈37'49 21°≈08'00 20°≈30'15 17°≈12'48 16°≈28'13 12°≈43'39 12°≈43'39 12°≈48'07 0° Ж 19° Ж14'50 0° Υ 4° Υ41'03 4° Υ54'00 14° Υ51'33 19° Υ42'30 22° Υ19'36 0° Β 0° Π 13° Π53'10 21° Π14'51 19° Π06'03 18° Π42'41 14° Π25'03	0.54744 AU -5°56'24 5°55'35 20°53'27 1°01'45 1°01'23 1.35637 AU 26°15'21	evening rise desc. node evening max el 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	16334 Nov 18 11:51 16334 Nov 22 09:33 16334 Dec 08 08:50 16334 Dec 08 08:23 16334 Dec 16 10:21 16334 Dec 20 07:45 16334 Dec 23 06:01 16334 Dec 24 08:59 16334 Dec 31 22:33 16334 Dec 31 17:07 16335 Jan 01 09:32 16335 Jan 09 04:35 16335 Jan 25 22:39 16335 Jan 27 14:29 16335 Feb 01 22:06 16335 Feb 15 01:39 16335 Feb 16 23:02 16335 Feb 23 23:02 16335 Feb 24 01:16 16335 Feb 27 14:58 16335 Mar 01 06:06 16335 Mar 04 02:31 16335 Mar 06 09:24 16335 Mar 06 09:24 16335 Apr 07 21:11 16335 Apr 10 14:42 16335 Apr 10 14:42 16335 Apr 21 08:25	21° \$\times 56'24 0° \$\times 24° \$\times 43'00 24° \$\times 41'56 0° \$\times 0° \$\times 37'04 0° \$\times 17'22 30° \$\times 26° \$\times 27'30 26° \$\times 35'08 26° \$\times 12'04 22° \$\times 37'48 22° \$\times 04'33 28° \$\times 19'20 0° \$\times 6° \$\times 35'53 0° \$\times 13'08 \$\times 14'109 26° \$\times 40'19 0° \$\times 11'09 26° \$\times 40'19 0° \$\times 10'250 0° \$\times 10'255	21°22'56 -5°52'13 5°50'59 0.54375 AU 22°34'04 1°19'57 1°19'54 1.33773 AU

	16335 Apr 30 16:47	30° ₹ 8		inferior conj	16336 Apr 16 14:00	9° 8 47'40	0002100
min. Earth dist.	16335 May 01 19:54	28° 8 47'22	0.65491 AU	minimum elong	16336 Apr 16 14:04	9° 8 47'28	0°02'29
inferior conj	16335 May 04 03:22	26° 8 10'15	1°00'34	transit middle	16336 Apr 16 14:04	9° 8 47'28	0°02'29
minimum elong	16335 May 04 03:22 16335 May 04 01:51	26° 8 14'35	0°59'30	transit begin	16336 Apr 16 14:04 16336 Apr 16 10:57	9° 8 55'28	0 02 29
•	16335 May 04 01:51 16335 May 10 06:57	20° 8 39'08	0 39 30	_	-	9° 8 39'29	
morning rise	,	19° 8 56'33		transit end	16336 Apr 16 17:11	9° 8 40'42	
direct	16335 May 13 02:30	_	10001102	asc. node	16336 Apr 16 16:43	_	
morning max el	16335 May 19 09:41	23° 8 12'41	18°01'02	morning rise	16336 Apr 23 06:16	4° 8 31'49	
	16335 May 24 22:52	0°II		direct	16336 Apr 25 17:18	4° 8 02'05	1501050
desc. node	16335 Jun 02 10:13	13° Ⅱ 08'51		morning max el	16336 May 02 03:10	7° 8 18'00	17°46'58
morning set	16335 Jun 06 17:26	20° ∏ 09'13			16336 May 17 07:57	Π $^{\circ}0$	
	16335 Jun 12 19:04	0		morning set	16336 May 18 16:29	2° Ⅱ 18'57	
				desc. node	16336 May 19 07:07	3° Ⅲ 21′28	
superior conj	16335 Jun 21 06:18	13° © 29'20	-1°58'16				
minimum elong	16335 Jun 20 22:22	12° © 58'05	1°58'23	superior conj	16336 May 31 10:29	23° Ⅱ 40′22	
max. Earth dist.	16335 Jun 24 09:06	18° © 22'48	1.45833 AU	minimum elong	16336 May 31 02:35	23° Ⅱ 08'09	1°27'45
	16335 Jul 01 20:34	0 \circ Ω			16336 Jun 04 08:37	0 \circ	
evening rise	16335 Jul 07 09:07	8° N 30'38		max. Earth dist.	16336 Jun 06 04:19	2° © 54'00	1.44939 AU
greatest brilliancy	16335 Jul 20 10:15	28° Ω 17'46	-0.7m	evening rise	16336 Jun 15 19:32	17°954'11	
	16335 Jul 21 14:09	0° m ∕			16336 Jun 23 19:38	$0^{\circ}\Omega$	
asc. node	16335 Jul 27 18:48	8° m 34'34		asc. node	16336 Jul 13 15:36	26° Ω 55'30	
evening max el	16335 Aug 01 06:15	13° m 44'12	19°27'07	evening max el	16336 Jul 14 08:34	27° Ω 38'47	20°27'33
retrograde	16335 Aug 08 09:28	17° m 42'08			16336 Jul 17 00:24	0° m)	
evening set	16335 Aug 12 01:42	16° m 23'50		retrograde	16336 Jul 22 08:31	2° m/12'38	
inferior conj	16335 Aug 17 10:50	10° m 30'40	2°51'29	evening set	16336 Jul 26 11:20	0° m/36'18	
minimum elong	16335 Aug 17 12:26	10° m 25'23	2°50'56	C	16336 Jul 27 04:26	30°RΩ	
min. Earth dist.	16335 Aug 18 17:53	8° mp 48'18	0.67477 AU	inferior conj	16336 Jul 31 17:20		3°05'23
morning rise	16335 Aug 22 22:35	4° Mp 04'00		minimum elong	16336 Jul 31 18:03	24°Ω28'49	3°04'53
direct	16335 Aug 28 20:10	1° mp 31'13		min. Earth dist.	16336 Aug 01 10:37	23° Ω 31'58	0.68513 AU
desc. node	16335 Aug 29 08:19	1° mp 32'14		morning rise	16336 Aug 06 00:28	18° Ω 07'49	0.00010110
morning max el	16335 Sep 10 01:50	8° Mp 49'40	25°26'57	direct	16336 Aug 11 10:34	15°Ω46'08	
morning max cr	16335 Sep 16 01:36 16335 Sep 26 18:28	0° ⊽	23 20 37	desc. node	16336 Aug 15 05:38	16°Ω43'25	
	16335 Oct 15 07:15	0° m .		morning max el	16336 Aug 22 12:51	22°Ω23'43	24°00'30
morning set	16335 Oct 15 07:15	1°M12'45		morning max ci	16336 Aug 29 04:47	0°m	24 00 30
max. Earth dist.	16335 Oct 19 12:47	7°M45'29	1.36167 AU		•	0∘ ت المار	
	16335 Oct 19 12.47 16335 Oct 23 19:58	16°M01'02	1.30107 AU	morning sat	16336 Sep 19 01:28 16336 Sep 26 18:15	0 == 12° £ 41'50	
asc. node	10333 Oct 23 19.38	10 11601 02		morning set			1 20521 ATT
	16225 0-4 25 10.52	100 M 50110	0017157	max. Earth dist.	16336 Sep 30 11:50	19° ₽ 11'28	1.38531 AU
superior conj	16335 Oct 25 19:52	19°M.58'19	0°17'57		16336 Oct 06 10:11	0° M	
minimum elong	16335 Oct 25 18:47	19°M52'56	0°18'14		16226 0 + 07 22 54	20M 52100	001.510.0
	16335 Oct 30 18:18	0° ∡ 7		superior conj	16336 Oct 07 22:54	2°M53'09	
evening rise	16335 Nov 02 18:28	6° ∡ 10'36		minimum elong	16336 Oct 07 23:58	2°M.58'14	0°14'58
	16335 Nov 15 23:12	0°る		behind sun begin	16336 Oct 07 21:18	2°M45'35	
evening max el	16335 Nov 20 11:18	5° る 24'53	20°00'12	behind sun end	16336 Oct 08 02:38	3°M₁10'53	
desc. node	16335 Nov 25 05:53	9° る 05'49		asc. node	16336 Oct 09 16:42	6°M₁2'57	
retrograde	16335 Nov 30 20:33	10°る35'35		evening rise	16336 Oct 16 19:23	20°M08'57	
evening set	16335 Dec 02 23:32	10° る 23'36			16336 Oct 21 21:47	0° ∡ ¹	
inferior conj	16335 Dec 11 17:48	6° පි 25'08		evening max el	16336 Nov 02 04:27	16° ∡ 757′28	18°59'31
minimum elong	16335 Dec 11 07:48	6° ප් 40'16		retrograde	16336 Nov 11 00:16	21° ∡ ¹24′23	
min. Earth dist.	16335 Dec 13 15:48		0.54951 AU	desc. node	16336 Nov 11 03:01	21° × ⁷ 24'21	
morning rise	16335 Dec 19 15:04	2° る 17'14		evening set	16336 Nov 12 21:37	21° ∡ 12'57	
direct	16335 Dec 24 14:29	1° る 23'16		inferior conj	16336 Nov 21 05:39	16° ₹ 56′29	-3°11'53
morning max el	16336 Jan 07 07:18	8° る 11'07	24°24'13	minimum elong	16336 Nov 20 21:50	17° ∡ 10′05	3°08'22
asc. node		24° る 25'06		min. Earth dist.	16226 Nov. 24 02:40	14° ∡ 56'33	0.56356 AU
	16336 Jan 19 19:21	2. 023 00		min. Darth dist.	16336 Nov 24 02:40	14 7 3033	
	16336 Jan 19 19:21 16336 Jan 23 01:44	0° ≈		morning rise	16336 Nov 24 02.40 16336 Nov 28 19:19	12° ₹ 14'51	
morning set							
morning set	16336 Jan 23 01:44	0° ≈		morning rise	16336 Nov 28 19:19	12° ∡ 14'51	26°05'27
morning set	16336 Jan 23 01:44 16336 Feb 01 11:02	0° ≈ 18° ≈ 40'40		morning rise direct	16336 Nov 28 19:19 16336 Dec 04 14:33	12° х 14′51 10° х 55′42	
morning set	16336 Jan 23 01:44 16336 Feb 01 11:02	0° ≈ 18° ≈ 40'40	1°31'51	morning rise direct	16336 Nov 28 19:19 16336 Dec 04 14:33 16336 Dec 18 17:50	12° х 14'51 10° х 55'42 18° х 10'18	
-	16336 Jan 23 01:44 16336 Feb 01 11:02 16336 Feb 06 15:19 16336 Feb 08 05:40 16336 Feb 08 07:09	0°≈ 18°≈40'40 0°¥	1°31'51 1°32'06	morning rise direct morning max el	16336 Nov 28 19:19 16336 Dec 04 14:33 16336 Dec 18 17:50 16336 Dec 28 14:06	12° メ 14'51 10° メ 55'42 18° メ 10'18 0°る	
superior conj	16336 Jan 23 01:44 16336 Feb 01 11:02 16336 Feb 06 15:19 16336 Feb 08 05:40	0°≈ 18°≈40'40 0°¥ 3°¥30'30		morning rise direct morning max el	16336 Nov 28 19:19 16336 Dec 04 14:33 16336 Dec 18 17:50 16336 Dec 28 14:06 16337 Jan 05 16:31	12° メ 14'51 10° メ 55'42 18° メ 10'18 0°る 12°る59'51	
superior conj minimum elong	16336 Jan 23 01:44 16336 Feb 01 11:02 16336 Feb 06 15:19 16336 Feb 08 05:40 16336 Feb 08 07:09	0°≈ 18°≈40'40 0° X 3° X 30'30 3° X 38'34	1°32'06	morning rise direct morning max el asc. node	16336 Nov 28 19:19 16336 Dec 04 14:33 16336 Dec 18 17:50 16336 Dec 28 14:06 16337 Jan 05 16:31 16337 Jan 14 09:26	12°♂14'51 10°♂55'42 18°♂10'18 0°♂ 12°♂59'51 0°≈	
superior conj minimum elong max. Earth dist.	16336 Jan 23 01:44 16336 Feb 01 11:02 16336 Feb 06 15:19 16336 Feb 08 05:40 16336 Feb 08 07:09 16336 Feb 10 13:41	0°≈ 18°≈40'40 0° X 3° X 30'30 3° X 38'34 8° X 34'59	1°32'06	morning rise direct morning max el asc. node	16336 Nov 28 19:19 16336 Dec 04 14:33 16336 Dec 18 17:50 16336 Dec 28 14:06 16337 Jan 05 16:31 16337 Jan 14 09:26	12° ₹14'51 10° ₹55'42 18° ₹10'18 0° ₹ 12° ₹59'51 0° ≋	
superior conj minimum elong max. Earth dist. evening rise	16336 Jan 23 01:44 16336 Feb 01 11:02 16336 Feb 06 15:19 16336 Feb 08 05:40 16336 Feb 08 07:09 16336 Feb 10 13:41 16336 Feb 15 17:39	0°≈ 18°≈40'40 0°¥ 3°¥30'30 3°¥38'34 8°¥34'59 19°¥24'48	1°32'06	morning rise direct morning max el asc. node morning set	16336 Nov 28 19:19 16336 Dec 04 14:33 16336 Dec 18 17:50 16336 Dec 28 14:06 16337 Jan 05 16:31 16337 Jan 14 09:26 16337 Jan 15 22:11	12° ₹14'51 10° ₹55'42 18° ₹10'18 0° ₹ 12° ₹59'51 0° ≈ 3° ≈16'06	26°05'27
superior conj minimum elong max. Earth dist. evening rise	16336 Jan 23 01:44 16336 Feb 01 11:02 16336 Feb 06 15:19 16336 Feb 08 05:40 16336 Feb 08 07:09 16336 Feb 10 13:41 16336 Feb 15 17:39 16336 Feb 21 06:05	0°≈ 18°≈40'40 0°¥ 3°¥30'30 3°¥38'34 8°¥34'59 19°¥24'48 0° Y 09'47	1°32'06	morning rise direct morning max el asc. node morning set superior conj	16336 Nov 28 19:19 16336 Dec 04 14:33 16336 Dec 18 17:50 16336 Dec 28 14:06 16337 Jan 05 16:31 16337 Jan 14 09:26 16337 Jan 15 22:11	12° ₹14'51 10° ₹55'42 18° ₹10'18 0° ₹ 12° ₹59'51 0° ≈ 3° ≈16'06 18° ≈08'03	26°05'27 1°37'36
superior conj minimum elong max. Earth dist. evening rise	16336 Jan 23 01:44 16336 Feb 01 11:02 16336 Feb 06 15:19 16336 Feb 08 05:40 16336 Feb 08 07:09 16336 Feb 10 13:41 16336 Feb 15 17:39 16336 Feb 21 06:05 16336 Feb 21 03:59	0°≈ 18°≈40'40 0° X 3° X 30'30 3° X 38'34 8° X 34'59 19° X 24'48 0° Y 09'47 0° Y	1°32'06	morning rise direct morning max el asc. node morning set superior conj minimum elong	16336 Nov 28 19:19 16336 Dec 04 14:33 16336 Dec 18 17:50 16336 Dec 28 14:06 16337 Jan 05 16:31 16337 Jan 14 09:26 16337 Jan 15 22:11 16337 Jan 22 15:40 16337 Jan 22 16:08	12° ₹14'51 10° ₹55'42 18° ₹10'18 0° ₹ 12° ₹59'51 0° ≈ 3° ≈16'06 18° ≈08'03 18° ≈10'40	26°05'27 1°37'36 1°38'05
superior conj minimum elong max. Earth dist. evening rise desc. node	16336 Jan 23 01:44 16336 Feb 01 11:02 16336 Feb 06 15:19 16336 Feb 08 05:40 16336 Feb 08 07:09 16336 Feb 10 13:41 16336 Feb 15 17:39 16336 Feb 21 06:05 16336 Feb 21 03:59 16336 Mar 11 00:48	0°≈ 18°≈40'40 0° € 3° € 30'30 3° € 38'34 8° € 34'59 19° € 24'48 0° ♀ 09'47 0° ♀	1°32'06 1.32342 AU	morning rise direct morning max el asc. node morning set superior conj minimum elong	16336 Nov 28 19:19 16336 Dec 04 14:33 16336 Dec 18 17:50 16336 Dec 28 14:06 16337 Jan 05 16:31 16337 Jan 14 09:26 16337 Jan 15 22:11 16337 Jan 22 15:40 16337 Jan 22 16:08 16337 Jan 23 18:17	12° ₹14'51 10° ₹55'42 18° ₹10'18 0° ₹ 12° ₹59'51 0° ≈ 3° ≈16'06 18° ≈08'03 18° ≈10'40 20° ≈36'05	26°05'27 1°37'36 1°38'05
superior conj minimum elong max. Earth dist. evening rise desc. node	16336 Jan 23 01:44 16336 Feb 01 11:02 16336 Feb 06 15:19 16336 Feb 08 05:40 16336 Feb 08 07:09 16336 Feb 10 13:41 16336 Feb 15 17:39 16336 Feb 21 06:05 16336 Feb 21 03:59 16336 Mar 11 00:48 16336 Mar 20 09:42	0°≈ 18°≈40'40 0° \text{ 3° \text{\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tint{\text{\ti}\text{\texitile\text{\tex{\text{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi}\texitit{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\tex	1°32'06 1.32342 AU	morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	16336 Nov 28 19:19 16336 Dec 04 14:33 16336 Dec 18 17:50 16336 Dec 28 14:06 16337 Jan 05 16:31 16337 Jan 14 09:26 16337 Jan 15 22:11 16337 Jan 22 15:40 16337 Jan 22 16:08 16337 Jan 23 18:17 16337 Jan 28 01:30	12° 🖈 14'51 10° 🖈 55'42 18° 🖈 10'18 0° 云 12° 云 59'51 0° ≈ 3° ≈ 16'06 18° ≈ 08'03 18° ≈ 10'40 20° ≈ 36'05 0° 升	26°05'27 1°37'36 1°38'05
superior conj minimum elong max. Earth dist. evening rise desc. node	16336 Jan 23 01:44 16336 Feb 01 11:02 16336 Feb 06 15:19 16336 Feb 08 05:40 16336 Feb 08 07:09 16336 Feb 10 13:41 16336 Feb 15 17:39 16336 Feb 21 06:05 16336 Feb 21 03:59 16336 Mar 11 00:48 16336 Mar 20 09:42 16336 Apr 03 05:31	0°≈ 18°≈40'40 0° \text{ 3° \text{\tint{\text{\tin\text{\texi{\texi{\texi\text{\text{\text{\ti}\titt{\text{\texi}\text{\tiint{\text{\texi{\texi{\texi{\tex	1°32'06 1.32342 AU	morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	16336 Nov 28 19:19 16336 Dec 04 14:33 16336 Dec 18 17:50 16336 Dec 28 14:06 16337 Jan 05 16:31 16337 Jan 14 09:26 16337 Jan 15 22:11 16337 Jan 22 15:40 16337 Jan 22 16:08 16337 Jan 23 18:17 16337 Jan 28 01:30 16337 Jan 29 16:50	12° \$\frac{1}{4}'51 10° \$\frac{1}{5}'55'42 18° \$\frac{1}{1}0'18 0° \$\frac{1}{5}'59'51 0° \$\approx 3° \$\approx 16'06 18° \$\approx 08'03 18° \$\approx 10'40 20° \$\approx 36'05 0° \$\frac{1}{3}\$ \$\approx 28'19	26°05'27 1°37'36 1°38'05

evening max el	16337 Mar 02 18:36	23° Y 22'08	27°30'08	desc. node	16338 Jan 24 23:32	9° ∺ 21'33	
	16337 Mar 12 12:04	0°8			16338 Feb 08 01:04	0° Υ	
retrograde	16337 Mar 16 18:38	0° 8 47'28		evening max el	16338 Feb 12 21:22	5° Y 10′26	26°51'11
	16337 Mar 20 21:31	30° ₹Ƴ		retrograde	16338 Feb 26 22:20	12° Y 25′18	
evening set	16337 Mar 23 13:27	28° Ƴ 38'56		evening set	16338 Mar 05 10:19	10° Ƴ 38'54	
min. Earth dist.	16337 Mar 27 08:15		0.61351 AU	min. Earth dist.	16338 Mar 09 11:22	7° Y 59'30	0.59085 AU
inferior conj	16337 Mar 30 11:40	22° Y 57'01	-1°18'55	inferior conj	16338 Mar 12 16:37	5° Y 28′02	-2°47'10
minimum elong	16337 Mar 30 14:30	22° Y 50'38	1°17'58	minimum elong	16338 Mar 12 23:02	5° Y 15′23	2°44'44
asc. node	16337 Apr 03 13:59	19° Ƴ 35'55		morning rise	16338 Mar 20 15:23	0° Y 50′50	
morning rise	16337 Apr 06 18:52	17° Y 59'20		asc. node	16338 Mar 21 11:18	0° Υ 41'27	
direct	16337 Apr 08 22:48	17° Ƴ 39'09		direct	16338 Mar 22 14:41	0° Ƴ 36'38	
morning max el	16337 Apr 15 20:03	21° Y 06'36	17°50'49	morning max el	16338 Mar 30 08:42	4° Υ 27'18	18°13'45
	16337 Apr 22 14:08	0° 8		morning set	16338 Apr 15 00:20	29° Ƴ 17'41	
morning set	16337 May 01 12:42	15° 8 27'40			16338 Apr 15 09:19	$_{0\circ}$ 8	
desc. node	16337 May 06 03:57	23° 8 45'03		desc. node	16338 Apr 23 00:44	14° 8 14'45	
	16337 May 09 17:16	Π $^{\circ}0$					
				superior conj	16338 Apr 24 15:40	17° 8 11'19	-0°13'30
superior conj	16337 May 12 13:54	4° Ⅱ 55'50	-0°50'54	minimum elong	16338 Apr 24 14:35	17° 8 06'24	0°13'46
minimum elong	16337 May 12 09:20	4° ∏ 36′17	0°50'47	behind sun begin	16338 Apr 24 10:45	16° 8 49'08	
max. Earth dist.	16337 May 19 19:39	16° ∏ 59'52	1.43406 AU	behind sun end	16338 Apr 24 18:25	17° 8 23'40	
evening rise	16337 May 26 12:41	27° Ⅱ 41'40			16338 May 01 23:32	0°II	
Ü	16337 May 28 00:14	0°€		max. Earth dist.	16338 May 02 05:55	0° Ⅱ 27'00	1.41404 AU
	16337 Jun 17 13:55	0°N		evening rise	16338 May 06 23:59	8° Ⅱ 19'31	
evening max el	16337 Jun 27 04:56	11° Ω 33'13	21°40'00		16338 May 21 01:49	0ංම 	
asc. node	16337 Jun 30 12:29	14° Ω 28'24		evening max el	16338 Jun 09 20:54	25°527'36	23°00'01
retrograde	16337 Jul 06 07:08	16°Ω50'38			16338 Jun 15 10:44	0° Ω	
evening set	16337 Jul 10 21:05	14° Ω 57'06		asc. node	16338 Jun 17 09:26	0° Ω 57'00	
inferior conj	16337 Jul 16 02:36	8° Ω 41'44	3°07'52	retrograde	16338 Jun 20 03:44	1° Ω 29'40	
minimum elong	16337 Jul 16 02:22	8° Ω 42'33	3°07'18	retrograde	16338 Jun 24 09:26	30°R95	
min. Earth dist.	16337 Jul 16 06:34	8°Ω27'53	0.69068 AU	evening set	16338 Jun 25 05:12	29°\$20'47	
morning rise	16337 Jul 21 07:28	2° Ω 24'04	0.07000 AC	min. Earth dist.	16338 Jun 30 03:34	23°9528'34	0.69134 AU
direct	16337 Jul 26 05:24	0°Ω18'08		inferior conj	16338 Jun 30 03:37	22°957'08	2°59'47
desc. node	16337 Jul 20 03:24 16337 Aug 02 02:54	3° Ω 25'29		minimum elong	16338 Jun 30 11:30	23°901'03	2°59'01
			22°31'33	•	16338 Jul 05 17:41	16°9347'11	2 3901
morning max el	16337 Aug 05 01:18		22-31-33	morning rise direct			
	16337 Aug 23 12:36	0° Mp 23° Mp 13'39			16338 Jul 10 03:32 16338 Jul 18 17:45	14° © 59'39 19° © 56'51	21°07'58
morning set	16337 Sep 07 14:22	0° ⊡		morning max el desc. node		21°S15'32	21 0/38
F 41 11 4	16337 Sep 11 16:56		1 40005 ATT	desc. node	16338 Jul 20 00:09		
max. Earth dist.	16337 Sep 12 12:28	1° £ 22'03	1.40925 AU		16338 Jul 27 03:46	0° N	
	1/227 9 20 00 27	150 0 02154	0052107	. ,	16338 Aug 16 16:20	0°M)	
superior conj	16337 Sep 20 09:27	15° Ω 03'54		morning set	16338 Aug 18 11:12	2° Mp 46'41	1 42072 411
minimum elong	16337 Sep 20 13:37	15° £ 22'36	0°51′20	max. Earth dist.	16338 Aug 25 18:40	14° m 25'06	1.43072 AU
asc. node	16337 Sep 26 13:25	26° Ω 22'11			16220 0 01 22 10	2607 2014	1000110
	16337 Sep 28 11:54	0°M,		superior conj	16338 Sep 01 23:10	26° m/20'47	
evening rise	16337 Sep 30 11:28	3°M43'51	10000150	minimum elong	16338 Sep 02 06:21	26° m 51'15	1°2/31
evening max el	16337 Oct 16 09:04	29°M16'56	18°20'59		16338 Sep 04 02:31	0∘ ⊽	
	16337 Oct 17 03:05	0° ∡ 7		asc. node	16338 Sep 13 10:07	16° 2 24'41	
retrograde	16337 Oct 23 23:11	3° ∡ 08'46		evening rise	16338 Sep 13 14:28	16° ≏ 44'08	
evening set	16337 Oct 25 23:43	2° 🖈 52'59			16338 Sep 21 03:31	0°M	10002101
desc. node	16337 Oct 29 00:11	1° ∡ 736′19		evening max el	16338 Sep 29 20:49	12°M13'20	18°03'01
	16337 Oct 31 10:03	30°RM	1000100	retrograde	16338 Oct 06 15:32	15°M42'47	
inferior conj	16337 Nov 02 15:13	28°M15'27		evening set	16338 Oct 08 23:04	15°M18'29	0000100
minimum elong	16337 Nov 02 11:47	28°M22'26		inferior conj	16338 Oct 15 21:25	10°M20'27	
min. Earth dist.	16337 Nov 05 21:08		0.58345 AU	minimum elong	16338 Oct 15 21:26	10°M20'26	0°00'23
morning rise	16337 Nov 09 20:22	22°M56'56		transit middle	16338 Oct 15 21:26	10°M20'26	0°00'23
direct	16337 Nov 16 05:13	21°M10'42		transit begin	16338 Oct 15 18:09	10°M28'10	
morning max el	16337 Nov 30 11:57	28°M46'57	27°19'23	transit end	16338 Oct 16 00:43	10°M12'39	
	16337 Dec 01 17:09	0° ⊀¹		desc. node	16338 Oct 15 21:25	10°M20'28	
	16337 Dec 22 09:56	0°る		min. Earth dist.	16338 Oct 19 00:47	7°M24'00	0.60610 AU
asc. node	16337 Dec 23 13:37	2° る 08'36		morning rise	16338 Oct 22 16:41	4°MJ31'24	
morning set	16337 Dec 31 06:39	17°る40'04		direct	16338 Oct 29 08:26	2°M21'10	27055145
	16338 Jan 05 21:20	0° ≈		morning max el	16338 Nov 12 13:55	10°M12'20	27°55'45
	1 (200 X) 25 - 1 - 1	20	10000-	_	16338 Nov 27 23:46	0° ⊼ ¹	
superior conj	16338 Jan 07 03:03	2°≈46'27	1°37'17	asc. node	16338 Dec 10 10:40	21° ∡ 742'14	
minimum elong	16338 Jan 07 02:28	2°≈43'10	1°37'51		16338 Dec 14 13:51	0°る	
max. Earth dist.	16338 Jan 07 01:42	2°≈38'52	1.30986 AU	morning set	16338 Dec 15 10:35	1°る47'55	
evening rise	16338 Jan 13 21:48	17°≈44'41		max. Earth dist.	16338 Dec 21 08:19	14° る 35'29	1.31132 AU
	16338 Jan 19 21:37	0° ∀					

		_				_	
superior conj	16338 Dec 22 13:59	17° る 20'31	1°30'55	superior conj	16339 Dec 06 22:27	1° る 44'02	
minimum elong	16338 Dec 22 12:27	17° る 12'00	1°31'27	minimum elong	16339 Dec 06 20:16	1° る 32'02	1°18'50
	16338 Dec 28 06:45	0° ≈		evening rise	16339 Dec 13 17:04	16° る 36'39	
evening rise	16338 Dec 29 06:31	2° ≈ 09'17			16339 Dec 20 05:05	0° ≈	
desc. node	16339 Jan 11 20:20	28° ≈ 09'03		desc. node	16339 Dec 29 17:13	16° ≈ 07'35	
	16339 Jan 13 00:06	0°) €		evening max el	16340 Jan 07 03:32	26°≈17'56	24°02'12
evening max el	16339 Jan 25 16:10	16° ¥ 06'33	25°38'44	evening man er	16340 Jan 11 16:58	0° ∀	2. 02.12
retrograde	16339 Feb 08 14:17	23° ¥ 07'22	23 30 44	retrograde	16340 Jan 20 16:26	3° ∺ 01'01	
•				•		2° ∺ 08'57	
evening set	16339 Feb 14 11:26	21°) 47'55		evening set	16340 Jan 25 14:00		
min. Earth dist.	16339 Feb 19 05:06	19° ∺ 07'41	0.56995 AU		16340 Jan 30 05:07	30° R ≈	
inferior conj	16339 Feb 22 01:30	17° ∺ 11'33	-4°17'50	min. Earth dist.	16340 Jan 31 15:07	29° ≈ 10'59	0.55370 AU
minimum elong	16339 Feb 22 10:45	16° ¥ 55'48	4°14'50	inferior conj	16340 Feb 02 13:12	28° ≈ 02'03	-5°31'52
morning rise	16339 Mar 02 13:01	12° ∺ 55'34		minimum elong	16340 Feb 02 21:01	27° ≈ 50′21	5°30'06
direct	16339 Mar 04 12:58	12°) 43′26		morning rise	16340 Feb 11 05:46	24°≈04'54	
asc. node	16339 Mar 08 08:37	13° ¥ 30′30		direct	16340 Feb 13 15:44	23° ≈ 50'03	
morning max el	16339 Mar 13 12:57	17° ¥ 08′09	18°57'37	asc. node	16340 Feb 23 05:57	28° ≈ 04'14	
morning man er	16339 Mar 22 17:31	0°Υ	10 0 / 0 /	morning max el	16340 Feb 24 04:33	28°≈56'43	20°04'27
morning sat	16339 Mar 29 22:39	13° Υ '35'22		morning max ci	16340 Feb 25 05:25	0° ∺	20 0427
morning set	10339 Mai 29 22.39	13 33 22					
				morning set	16340 Mar 13 03:59	28°) €09'18	
superior conj	16339 Apr 07 11:54	0° 8 15'51	0°20'14		16340 Mar 14 01:41	0° Y	
minimum elong	16339 Apr 07 13:10	0° 8 21'52	0°19'43				
	16339 Apr 07 08:34	9° 8		superior conj	16340 Mar 20 22:11	13° Ƴ 57'05	0°48'22
desc. node	16339 Apr 09 21:30	4° 8 46'57		minimum elong	16340 Mar 21 00:32	14° Ƴ 08'53	0°47'53
max. Earth dist.	16339 Apr 14 12:40	13° 8 12'28	1.39149 AU	desc. node	16340 Mar 26 18:14	25° Y 17′28	
evening rise	16339 Apr 18 08:42	19° 8 53'16		max. Earth dist.	16340 Mar 26 19:27	25° Y ′23'14	1.36871 AU
	16339 Apr 24 11:15	0°II			16340 Mar 29 07:08	0°8	
	16339 May 15 05:25	0°©		evening rise	16340 Mar 30 13:00	2° 8 15'27	
			24921125	evening rise		2 О 1327 0° П	
evening max el	16339 May 23 10:48		24°21'25		16340 Apr 16 13:29		0.500.511.0
retrograde	16339 Jun 03 20:59	16° © 04'02		evening max el	16340 May 05 00:22	23° Ⅱ 17'51	25°37'12
asc. node	16339 Jun 04 06:26	16° © 03'23			16340 May 14 15:11	0 \circ	
evening set	16339 Jun 09 10:05	13° © 42'44		retrograde	16340 May 17 09:52	0° ട് 27'24	
min. Earth dist.	16339 Jun 13 23:26	8° 5 27'59	0.68714 AU		16340 May 20 00:49	30°R Ⅱ	
inferior conj	16339 Jun 14 21:29	7° © 13'40	2°41'15	asc. node	16340 May 21 03:32	29° Ⅲ 30′50	
minimum elong	16339 Jun 14 19:40	7° © 19'49	2°40'13	evening set	16340 May 23 10:04	27° Ⅲ 57'37	
morning rise	16339 Jun 20 05:20	1°9512'50		min. Earth dist.	16340 May 27 16:02	23° Ⅱ 19'48	0.67812 AU
	16339 Jun 22 12:06	30°R Ⅱ		inferior conj	16340 May 29 03:14	21° I I27'07	2°11'47
direct	16339 Jun 24 03:31	29° Ⅱ 44'53		minimum elong	16340 May 29 01:03	21° II 34'07	
direct				•	•		2 1031
	16339 Jun 25 20:13	0° ©		morning rise	16340 Jun 03 16:33	15° Ⅱ 36'47	
morning max el	16339 Jul 01 16:41		19°55'40	direct	16340 Jun 07 03:43	14° Ⅲ 27'58	
desc. node	16339 Jul 06 21:22	9° © 56'06		morning max el	16340 Jun 13 22:58	18° Ⅱ 08'33	18°58'10
	16339 Jul 20 23:31	0 \circ Ω		desc. node	16340 Jun 22 18:31	29° Ⅱ 14′02	
morning set	16339 Jul 28 16:44	11° Ω 42'59			16340 Jun 23 07:15	0 \circ \odot	
max. Earth dist.	16339 Aug 08 07:42	28° Ω 16′01	1.44737 AU	greatest brilliancy	16340 Jun 27 04:00	5° © 43'35	-0.7m
	16339 Aug 09 09:54	0° mp		morning set	16340 Jul 07 01:15	20°953'06	
	· ·	•		C	16340 Jul 12 22:30	$0^{\circ}\Omega$	
superior conj	16339 Aug 13 13:24	6° Mp 38′57	-1°57'57	max. Earth dist.	16340 Jul 21 02:02		1.45748 AU
minimum elong	16339 Aug 13 20:55		1°57'42	max. Darm dist.	103 10 341 21 02.02	12 00 10 11	1.13710710
Č	•		1 3/ 42	aumorior coni	16240 Iul 22 07:09	16° Ω 08'38	2012126
evening rise	16339 Aug 26 23:17	28° m 56'41		superior conj	16340 Jul 23 07:08	16°Ω18'20	
_	16339 Aug 27 14:11	0∘ 亚		minimum elong	16340 Jul 23 09:36		2-13-33
asc. node	16339 Aug 31 06:49	6° ≏ 16'01			16340 Aug 01 01:13	0° m	
evening max el	16339 Sep 13 11:36	25° ≏ 35'50	18°04'01	evening rise	16340 Aug 07 08:57	10° Mp 10'20	
retrograde	16339 Sep 19 21:08	28° ≏ 56′29		asc. node	16340 Aug 17 03:31	25° m 51'40	
evening set	16339 Sep 22 13:02	28° ≏ 20'04			16340 Aug 19 20:36	0∘ ত	
inferior conj	16339 Sep 28 20:36	23° ♀ 03'41	1°10'40	evening max el	16340 Aug 27 01:57	9° ≙ 15'51	18°22'55
minimum elong	16339 Sep 28 22:25	22° ≏ 58'49	1°10'13	retrograde	16340 Sep 02 11:44	12° ≏ 41'05	
min. Earth dist.	16339 Oct 01 14:21	20° ≏ 08'56	0.62879 AU	evening set	16340 Sep 05 12:34	11° ≏ 49'48	
desc. node	16339 Oct 02 18:45	18° ≏ 58'33	3.023/7/10	inferior conj	16340 Sep 11 08:45	6° £ 17'32	2°02'29
				·	•		2°01'49
morning rise	16339 Oct 05 05:33	16° £ 53′26		minimum elong	16340 Sep 11 11:04	6° Ω 10'41	
direct	16339 Oct 11 21:45	14° £ 26'13	07050104	min. Earth dist.	16340 Sep 13 13:39	3° 2 41'36	0.64942 AU
morning max el	16339 Oct 25 21:39	22° ₾ 23'59	27°53'04	morning rise	16340 Sep 17 08:07	29° m 55'10	
	16339 Nov 01 14:59	0° M			16340 Sep 17 05:45	30°R, Mp	
	16339 Nov 21 04:52	0° ∡ ¹		desc. node	16340 Sep 18 16:06	28° m 56'57	
asc. node	16339 Nov 27 07:38	11° ∡ ³32'58		direct	16340 Sep 23 19:38	27° m 19'21	
morning set	16339 Nov 29 07:39	15° ∡ ³33'35			16340 Oct 01 04:50	0∘ ⊽	
max. Earth dist.	16339 Dec 04 10:23	26° ∡ 17'15	1.31845 AU	morning max el	16340 Oct 07 08:36	5° ₽ 13'22	27°15'51
	16339 Dec 06 03:26	ರ°0		-	16340 Oct 26 06:51	0°M	
		-		morning set	16340 Nov 11 19:17	28°M51'31	

	16340 Nov 12 09:16	0° ∡ ¹		morning set	16341 Oct 25 18:10	11° M 34'06	
asc. node	16340 Nov 13 04:33	1° ∡ ³35′21		max. Earth dist.	16341 Oct 29 12:40	18°M44'22	1.34926 AU
max. Earth dist.	16340 Nov 16 04:29	7° ∡ ³39′16	1.33123 AU	asc. node	16341 Oct 31 01:23	21°M44'23	
superior conj	16340 Nov 20 02:21	15° ∡ 751'42	0°59'45	superior conj	16341 Nov 03 23:07	29°M36'53	0°34'54
minimum elong	16340 Nov 19 23:59	15° ∡ ³39′06	1°00'01	minimum elong	16341 Nov 03 21:18	29° M 27'34	0°35'07
	16340 Nov 26 15:55	0°ප			16341 Nov 04 03:37	0° ∡ ¹	
evening rise	16340 Nov 27 03:39	1° る 02'38		evening rise	16341 Nov 11 12:17	15° ∡ ¹22'01	
	16340 Dec 13 05:10	0°≈			16341 Nov 18 21:15	0°ರ	
desc. node	16340 Dec 15 14:09	2° ≈ 59'59		evening max el	16341 Nov 30 08:23	16° る 29'47	20°45'13
evening max el	16340 Dec 18 13:37	6° ≈ 12'48	22°18'37	desc. node	16341 Dec 02 11:10	18° る 24'10	
retrograde	16340 Dec 31 06:38	12° ≈ 29'51		retrograde	16341 Dec 11 16:34	22° る 07'22	
evening set	16341 Jan 03 21:45	12° ≈ 00'48		evening set	16341 Dec 14 04:37	21° る 52'10	
inferior conj	16341 Jan 12 08:27	8° ≈ 08'55	-6°02'20	inferior conj	16341 Dec 22 23:23	17° る 59'57	-5°31'43
minimum elong	16341 Jan 12 08:24	8° ≈ 09'00	6°01'45	minimum elong	16341 Dec 22 15:04	18° る 11'55	5°29'34
min. Earth dist.	16341 Jan 11 20:49	8° ≈ 25'13	0.54479 AU	min. Earth dist.	16341 Dec 24 02:13	17° る 21'21	0.54500 AU
morning rise	16341 Jan 20 20:02	4° ≈ 21'29		morning rise	16341 Dec 31 01:25	14° る 04'41	
direct	16341 Jan 24 02:48	3° ≈ 57'23		direct	16342 Jan 04 10:19	13° る 23'33	
morning max el	16341 Feb 05 05:04	9° ≈ 48'07	21°34'10	morning max el	16342 Jan 17 17:18	19° る 53'52	23°20'49
asc. node	16341 Feb 09 03:16	14° ≈ 08'26		Č	16342 Jan 26 01:47	0° ≈	
	16341 Feb 19 03:47	0°) €		asc. node	16342 Jan 27 00:32	1° ≈ 24'26	
morning set	16341 Feb 25 13:34	12°) 51′23		morning set	16342 Feb 10 01:15	27° ≈ 35'28	
		/			16342 Feb 11 04:11	0° ∀	
superior conj	16341 Mar 04 18:43	28°) €04'34	1°10'15			• //	
minimum elong	16341 Mar 04 21:12	28°) 17'30	1°10'00	superior conj	16342 Feb 16 22:26	12° ¥ 29'53	1°25'46
8	16341 Mar 05 16:56	0°Υ		minimum elong	16342 Feb 17 00:23	12° ¥ 40′26	1°25'50
max. Earth dist.	16341 Mar 09 06:24	7° Υ 14'41	1.34800 AU	max. Earth dist.	16342 Feb 20 00:29	19°) 04'38	1.33100 AU
evening rise	16341 Mar 13 09:28	15° Υ 16'45	1.5 1000 110	evening rise	16342 Feb 24 18:41	28°) 48'46	1.55100710
desc. node	16341 Mar 13 14:55	15° Υ 42'30		evening rise	16342 Feb 25 09:07	0°Υ	
dese. Hode	16341 Mar 21 14:22	0°8		desc. node	16342 Feb 28 11:34	5°Υ58'03	
	16341 Apr 11 03:31	0°II		dese. Hode	16342 Mar 14 17:58	0° 8	
evening max el	16341 Apr 17 14:02	7° Ⅱ 04'11	26°39'54	evening max el	16342 Mar 31 03:19	20° 8 33'35	27°22'03
retrograde	16341 Apr 30 17:31	14° I [31'16	20 37 34	retrograde	16342 Apr 13 19:02	28° 8 06'53	27 22 03
evening set	16341 May 07 03:15	11° II 58'25		evening set	16342 Apr 13 13:02	25° 8 37'45	
asc. node		11 II 38 23		min. Earth dist.		23° 8 06'41	0.64700 AU
min. Earth dist.	16341 May 08 00:42	7° П 55'39	0.66455 AU		16342 Apr 24 07:25	21° 8 28'02	0.04700 AU
	16341 May 11 03:18	7 П 33 39 5° П 31'44	1°30'20	asc. node	16342 Apr 24 21:55 16342 Apr 26 20:09	19° 8 21'45	0°35'43
inferior conj	16341 May 13 03:37	5° I 37'40	1°29'05	inferior conj	•	19° 8 24'25	
minimum elong	16341 May 13 01:38		1-29 05	minimum elong	16342 Apr 26 19:10	13° 8 57'02	0°34'53
	16341 May 18 20:34	30°R8		morning rise	16342 May 03 04:50		
morning rise	16341 May 19 01:13	29° 8 53'20		direct	16342 May 05 20:31	13° 8 20'28	17052154
direct	16341 May 22 02:09	29° 8 02'01		morning max el	16342 May 12 03:59	16° 8 35'15	17-52-54
	16341 May 25 09:42	0°Ⅱ 2°Ⅱ	10017102	1 1	16342 May 21 23:57	0°П	
morning max el	16341 May 28 11:28	2° Ⅱ 23'24	18°17'03	desc. node	16342 May 27 12:30	9° Ⅱ 03'23	
desc. node	16341 Jun 09 15:33	18° Ⅱ 58'54		morning set	16342 May 29 14:44	12° Ⅱ 32'11	
	16341 Jun 16 14:23	0ංව			16342 Jun 09 06:06	0₀ ௐ	
morning set	16341 Jun 17 06:21	1° © 03'39			1.63.43.1 13.00.45	50000114	1046140
	16241 7 1 02 16 16	252001150	2000122	superior conj	16342 Jun 12 09:47	5°903'14	
superior conj	16341 Jul 02 16:16	25°521'59		minimum elong	16342 Jun 12 01:13	4°929'03	
minimum elong	16341 Jul 02 11:03	25°901'37		max. Earth dist.	16342 Jun 16 18:14		1.45537 AU
max. Earth dist.	16341 Jul 03 22:25		1.46017 AU	evening rise	16342 Jun 28 07:51	29° © 50'57	
	16341 Jul 05 15:38	0°N			16342 Jun 28 10:14	0°N	0.6
evening rise	16341 Jul 18 17:37	20° Ω 21'42		greatest brilliancy	16342 Jul 12 21:59	21° Ω 43'53	-0.6m
	16341 Jul 24 22:24	0° m)		_	16342 Jul 18 20:27	0° m)	
greatest brilliancy	16341 Jul 29 01:17	6° Mp 19'51	-0.8m	asc. node	16342 Jul 21 21:03	3°Mp48'15	
asc. node	16341 Aug 04 00:16	15° m) 05'01		evening max el	16342 Jul 24 18:47	6° m 59'30	19°51'05
evening max el	16341 Aug 10 12:59	23° m 05'23	18°58'58	retrograde	16342 Aug 01 06:12	11° m)11'49	
retrograde	16341 Aug 17 07:41	26° Mp 48'11		evening set	16342 Aug 05 02:46	9° Mp 46'02	
evening set	16341 Aug 20 18:02	25° m 40'11		inferior conj	16342 Aug 10 10:14	3° m)47'41	
inferior conj	16341 Aug 26 06:16	19° m 54'05		minimum elong	16342 Aug 10 11:28	3° m 43'30	
minimum elong	16341 Aug 26 08:16	19° m 47'42		min. Earth dist.	16342 Aug 11 11:26	2°m/22'51	0.67977 AU
min. Earth dist.	16341 Aug 27 21:19	17° m 49'32	0.66670 AU		16342 Aug 13 07:56	30° Ŗ €	
morning rise	16341 Aug 31 21:40	13° m 27'06		morning rise	16342 Aug 15 19:43	27° Ω 21'40	
desc. node	16341 Sep 05 13:28	10° m 59'30		direct	16342 Aug 21 12:32	24° Ω 52'44	
direct	16341 Sep 07 00:57	10° m 50'59		desc. node	16342 Aug 23 10:48	25° Ω 07'31	
morning max el	16341 Sep 19 20:14	18° m 27'31	26°11'58		16342 Aug 31 07:04	0° m	
	16341 Sep 29 14:44	0∘ 亚		morning max el	16342 Sep 02 07:17	1° m 55'59	24°50'53
	16341 Oct 19 06:56	0° M.			16342 Sep 23 15:37	0∘ ত	

	16242 0-4 00 00-25	229 0 22154		4 4-	16242 A 10 00-06	110 00000	
morning set	16342 Oct 08 00:25	23° △ 32'54	1 251 10 177	desc. node	16343 Aug 10 08:06	11°Ω00'20	222222
max. Earth dist.	16342 Oct 11 12:59	29° Ω 52'34	1.37148 AU	morning max el	16343 Aug 15 18:26	15° Ω 33'04	23°22'20
_	16342 Oct 11 14:37	0° ™			16343 Aug 27 15:09	0° m/y	
asc. node	16342 Oct 17 22:10	11°M56'23			16343 Sep 16 14:27	0∘ ⊽	
				morning set	16343 Sep 19 09:56	4° ჲ 38'33	
superior conj	16342 Oct 18 09:42	12°M52'42	0°04'20	max. Earth dist.	16343 Sep 23 11:48	11° ≏ 34'43	1.39565 AU
minimum elong	16342 Oct 18 09:24	12°M51'14	0°04'41				
behind sun begin	16342 Oct 18 03:04	12°M20'16		superior conj	16343 Oct 01 06:20	25° ≏ 30'43	-0°30'47
behind sun end	16342 Oct 18 15:44	13°M22'17		minimum elong	16343 Oct 01 08:37	25° ≏ 41'21	0°30'10
evening rise	16342 Oct 26 16:46	29° M 29'44			16343 Oct 03 15:53	0° M	
	16342 Oct 26 22:47	0° ∡ ¹		asc. node	16343 Oct 04 18:54	2°M07'59	
evening max el	16342 Nov 12 17:32	27° ∡ ³33'32	19°31'40	evening rise	16343 Oct 10 14:23	13°ML19'28	
C	16342 Nov 15 13:52	0°₹		Č	16343 Oct 19 16:13	0° ∡ ¹	
desc. node	16342 Nov 19 08:15	1° る 55'53		evening max el	16343 Oct 26 16:12	9° ∡ ¹27'57	18°40'32
retrograde	16342 Nov 22 10:18	2° る 24'41		retrograde	16343 Nov 03 21:54	13° ∡ ′38′02	10 .032
evening set	16342 Nov 24 09:20	2°る13'43		evening set	16343 Nov 05 20:05	13°×725'10	
evening set	16342 Nov 29 23:58	30°R. ✓		desc. node	16343 Nov 06 05:25	13° × 25 10	
: <i>c</i> :			4010117				2027140
inferior conj	16342 Dec 03 00:31	28° ₹ 08'52		inferior conj	16343 Nov 13 21:27	8° 🗷 59'53	
minimum elong	16342 Dec 02 14:52	28° ₹ 24'18	4°06'31	minimum elong	16343 Nov 13 15:29	9° √ 10'59	
min. Earth dist.	16342 Dec 05 10:20	26° ₹ 36'26	0.55453 AU	min. Earth dist.	16343 Nov 16 23:58		0.57152 AU
morning rise	16342 Dec 10 18:28	23° ∡ ¹47'34		morning rise	16343 Nov 21 07:44	4° ∡ °02'42	
direct	16342 Dec 16 03:11	22° ∡ ′43′01		direct	16343 Nov 27 09:52	2° ∡ ³31'47	
morning max el	16342 Dec 30 01:35	29° ∡ ¹43'50	25°09'38	morning max el	16343 Dec 11 14:46	9° ∡ 55'40	26°41'05
	16342 Dec 30 08:19	0°₹			16343 Dec 26 21:58	0°₹	
asc. node	16343 Jan 13 21:44	19° る 34'30		asc. node	16343 Dec 31 18:53	8° る 25'07	
	16343 Jan 19 14:35	0° ≈		morning set	16344 Jan 09 23:18	26° る 46'02	
morning set	16343 Jan 25 13:05	12° ≈ 15′08			16344 Jan 11 11:03	0° ≈	
superior conj	16343 Feb 01 06:44	27° ≈ 04'34	1°35'02	superior conj	16344 Jan 16 17:33	11° ≈ 43'00	1°38'12
minimum elong	16343 Feb 01 07:48	27°≈10'27	1°35'24	minimum elong	16344 Jan 16 17:34	11° ≈ 43'07	1°38'44
	16343 Feb 02 14:36	0° ∀		max. Earth dist.	16344 Jan 17 08:04	13° ≈ 04'11	1.31159 AU
max. Earth dist.	16343 Feb 03 01:47	1°) (01'17	1.31870 AU	evening rise	16344 Jan 23 15:28	26° ≈ 52'29	
evening rise	16343 Feb 08 13:32	12°) 42'41	1.51070110	evening rise	16344 Jan 25 03:16	0° ∀	
desc. node	16343 Feb 15 08:14	25°) 58'19		desc. node	16344 Feb 02 04:59	15° ¥ 37'12	
desc. node	16343 Feb 17 13:32	25 γ (3619		desc. Hode	16344 Feb 11 00:02	13 γ (3/12	
		0° 8				0 γ 15° Υ 51'17	27917159
	16343 Mar 10 04:05		27026140	evening max el	16344 Feb 23 21:28	23° Y 11'46	2/-1/38
evening max el	16343 Mar 13 14:37	_	27°36'40	retrograde	16344 Mar 08 22:12		
retrograde	16343 Mar 27 13:07	11° 8 03'27		evening set	16344 Mar 15 14:57	21° Υ 12'16	
evening set	16343 Apr 03 08:25	8° 8 45'35		min. Earth dist.	16344 Mar 19 11:41	18° Y ′26'49	
min. Earth dist.	16343 Apr 07 02:39	_	0.62631 AU	inferior conj	16344 Mar 22 16:44	15° Y 42'57	
inferior conj	16343 Apr 10 01:42	2° 8 48'37		minimum elong	16344 Mar 22 21:02	15° Ƴ 33'46	1°53'40
minimum elong	16343 Apr 10 02:48	2° 8 45'56	0°32'53	asc. node	16344 Mar 28 16:28	11° Y 28'38	
asc. node	16343 Apr 11 19:10	1° 8 10'09		morning rise	16344 Mar 30 06:35	10° Ƴ 53′20	
	16343 Apr 13 03:32	30° ŖƳ		direct	16344 Apr 01 08:12	10° Ƴ 36′04	
morning rise	16343 Apr 17 00:06	27° Y ′39'59		morning max el	16344 Apr 08 13:01	14° Y 12′02	17°58'06
direct	16343 Apr 19 07:48	27° Ƴ 14'51			16344 Apr 19 08:34	0°8	
	16343 Apr 25 06:45	0°B		morning set	16344 Apr 24 02:59	8° 8 37'35	
morning max el	16343 Apr 25 21:35	0° ප 34'37	17°46'17	desc. node	16344 Apr 30 06:10	19° 8 47'40	
morning set	16343 May 11 23:32	25° 8 09'15			•		
desc. node	16343 May 14 09:21	29° 8 21'08		superior conj	16344 May 04 12:45	27° 8 22'28	-0°34'46
	16343 May 14 18:18	0°II		minimum elong	16344 May 04 09:45	27° 8 09'21	0°34'48
	105 15 May 11 10.10	٠ <u>ــ</u>		minimum crong	16344 May 06 01:02	0°II	0 31 10
superior conj	16343 May 23 23:32	15° ∏ 40′52	1012/30	max. Earth dist.	16344 May 12 01:13	10° Ⅱ 08'53	1.42609 AU
minimum elong	16343 May 23 16:51	15° Ⅱ 13'08		evening rise	16344 May 17 19:11	19° Д 27'06	1.42007 AC
max. Earth dist.	•	26° Ⅱ 17'01	1.44362 AU	evening rise		0°95	
max. Earm dist.	16343 May 30 11:38	20 п 1701	1.44302 AU		16344 May 24 14:21	0°€ 0 €	
	16343 Jun 01 19:40				16344 Jun 15 03:55		22012120
evening rise	16343 Jun 07 19:10	9° © 19'52		evening max el	16344 Jun 19 12:55	4°Ω49'10	22°13′30
	16343 Jun 21 14:52	0° N	20055115	asc. node	16344 Jun 24 14:48	8° Ω 58'20	
evening max el	16343 Jul 07 18:34		20°57'12	retrograde	16344 Jun 29 02:58	10° Ω 25'10	
asc. node	16343 Jul 08 17:54	21°Ω50'36		evening set	16344 Jul 03 21:55	8° Ω 24'44	
retrograde	16343 Jul 16 05:12	25° Ω 46′03		inferior conj	16344 Jul 09 03:59	2° Ω 05'47	
evening set	16343 Jul 20 12:39	24° Ω 02'26		minimum elong	16344 Jul 09 03:22	2° Ω 07′59	3°05'04
inferior conj	16343 Jul 25 18:11	17° Ω 53′03	3°07'44	min. Earth dist.	16344 Jul 09 02:23	2° Ω 11′22	0.69163 AU
minimum elong	16343 Jul 25 18:29	17° Ω 51'58	3°07'14		16344 Jul 10 16:32	30° ₹ 5	
min. Earth dist.	16343 Jul 26 05:50	17° Ω 12'40	0.68814 AU	morning rise	16344 Jul 14 08:39	25° © 51'26	
morning rise	16343 Jul 31 00:02	11° Ω 31'46		direct	16344 Jul 19 01:29	23°953'04	
direct	16343 Aug 05 05:07	9° Ω 16′04		desc. node	16344 Jul 27 05:22	28°513'41	
	<u> </u>						

morning max el	16344 Jul 28 08:10	29° © 18'22	21°54'54	direct	16345 Jul 03 00:30	8° © 37'30	
	16344 Jul 29 00:29	0 $^{\circ}$ Ω		morning max el	16345 Jul 11 03:22	13° © 14'30	20°35'39
	16344 Aug 20 07:26	0° m)		desc. node	16345 Jul 14 02:35	16° 5 27'30	
morning set	16344 Aug 29 19:48	14° m 44'02			16345 Jul 24 07:41	0 \circ Ω	
max. Earth dist.	16344 Sep 04 15:02	24° m 09'41	1.41891 AU	morning set	16345 Aug 09 08:38	23° Ω 58′00	
	16344 Sep 08 02:34	0∘ ⊽			16345 Aug 13 05:37	0° m y	
				max. Earth dist.	16345 Aug 18 00:40	7° Mp 36'26	1.43855 AU
superior conj	16344 Sep 12 08:31	7° ≏ 19'35	-1°07'50				
minimum elong	16344 Sep 12 14:05		1°06'59	superior conj	16345 Aug 24 12:21	18° m y 11'32	-1°42'07
asc. node	16344 Sep 20 15:37	22° ≏ 14'51		minimum elong	16345 Aug 24 20:13	18° m) 44'11	1°41'29
evening rise	16344 Sep 23 01:28	26° ≙ 41'06			16345 Aug 31 11:53	0∘ ⊽	
	16344 Sep 24 20:41	0°M₊		evening rise	16345 Sep 05 21:28	9° ഫ 23'22	
evening max el	16344 Oct 09 00:22	22°M04'06	18°10'53	asc. node	16345 Sep 07 12:20	12° ≏ 13′26	
retrograde	16344 Oct 16 04:52	25°M44'52			16345 Sep 18 07:24	0° M	
evening set	16344 Oct 18 08:10	25°M25'51		evening max el	16345 Sep 22 13:49	5° ™ 12'26	18°01'06
desc. node	16344 Oct 23 02:39	22°M46'34		retrograde	16345 Sep 29 03:35	8°M36'50	
inferior conj	16344 Oct 25 16:10	20°M38'58	-0°49'22	evening set	16345 Oct 01 14:27	8° M 07'53	
minimum elong	16344 Oct 25 14:24	20°M42'49	0°48'10	inferior conj	16345 Oct 08 06:08	3° ™ 01'34	0°32'23
min. Earth dist.	16344 Oct 28 21:56	17°M51'00	0.59295 AU	minimum elong	16345 Oct 08 07:07	2° ™ 59'09	0°32'19
morning rise	16344 Nov 01 17:15	15° M ₊06'30		desc. node	16345 Oct 09 23:56	1° ጤ 16'44	
direct	16344 Nov 08 05:45	13°MJ09'47		min. Earth dist.	16345 Oct 11 05:56	0° M 03′26	0.61590 AU
morning max el	16344 Nov 22 12:26	20°M52'25	27°39'47		16345 Oct 11 07:23	30° ŖΩ	
	16344 Nov 30 10:46	0° ∡ ¹		morning rise	16345 Oct 14 20:57	27° ₽ 01'56	
asc. node	16344 Dec 17 15:57	27° ∡ ¹45'14		direct	16345 Oct 21 13:25	24° ₽ 43'39	
	16344 Dec 18 19:54	0°ප			16345 Nov 01 20:14	0° M	
morning set	16344 Dec 24 06:05	11° る 03'21		morning max el	16345 Nov 04 17:29	2°M39'13	27°59'13
max. Earth dist.	16344 Dec 30 15:48	25° る 05'56	1.30984 AU		16345 Nov 24 21:59	0° ∡ 7	
				asc. node	16345 Dec 04 12:59	17° ∡ ¹26'48	
superior conj	16344 Dec 31 04:57	26° る 19'32	1°35'19	morning set	16345 Dec 08 07:23	25° ₮ 02'21	
minimum elong	16344 Dec 31 03:57	26° る 13'53	1°35'54		16345 Dec 10 16:01	0°ರ	
	16345 Jan 01 20:18	0° ≈		max. Earth dist.	16345 Dec 13 21:00	6° る 57'09	1.31365 AU
evening rise	16345 Jan 06 22:16	11° ≈ 12'31					
	16345 Jan 16 08:33	0° ∀		superior conj	16345 Dec 15 15:04	10° る 49'22	1°26'22
desc. node	16345 Jan 19 01:47	4°) 46′18		minimum elong	16345 Dec 15 13:13	10° る 39'06	1°26'51
evening max el	16345 Feb 04 21:01	27° ¥ 16′49	26°24'03	evening rise	16345 Dec 22 07:58	25° る 38'19	
	16345 Feb 08 00:38	0° Y			16345 Dec 24 08:55	0° ≈	
retrograde	16345 Feb 18 20:48	4° Y 25'31		desc. node	16346 Jan 05 22:38	23° ≈ 14'40	
evening set	16345 Feb 25 03:48	2° Y 50'03			16346 Jan 10 15:10	0°)	
min. Earth dist.	16345 Mar 01 10:20	0° Υ 12'29	0.58159 AU	evening max el	16346 Jan 17 11:59	7° ¥ 50′23	24°59'37
	16345 Mar 01 17:19	30° ₹		retrograde	16346 Jan 31 07:16	14° ¥ 45′08	
inferior conj	16345 Mar 04 13:26	27° ¥ 54'15		evening set	16346 Feb 05 19:30	13° ¥ 37'15	
minimum elong	16345 Mar 04 21:19	27°) 39'41	3°23'21	min. Earth dist.	16346 Feb 11 00:18	10°) 51′48	0.56222 AU
morning rise	16345 Mar 12 18:14	23° ¥ 26′15		inferior conj	16346 Feb 13 13:05	9° ∺ 14'25	
direct	16345 Mar 14 17:10	23° ¥ 13′18		minimum elong	16346 Feb 13 22:30	8° ¥ 59'19	4°50'13
asc. node	16345 Mar 15 13:46	23° ¥ 15′53		morning rise	16346 Feb 22 04:03	5° ∺ 07'31	
morning max el	16345 Mar 22 22:35	27° ∺ 16'49	18°29'50	direct	16346 Feb 24 06:46	4°) 54′59	
	16345 Mar 25 09:18	0° Υ		asc. node	16346 Mar 02 11:06	6° ¥ 50′12	
morning set	16345 Apr 07 19:41	22° Y ′41′01		morning max el	16346 Mar 05 21:59	9°) 36′40	19°23'20
	16345 Apr 11 15:14	$0^{\circ}S$			16346 Mar 19 06:40	0° Y	
				morning set	16346 Mar 22 21:20	7° Ƴ 06'14	
superior conj	16345 Apr 16 22:58	10° 8 00'36	0°01'25				
minimum elong	16345 Apr 16 23:03	10° 8 00'59	0°01'01	superior conj	16346 Mar 31 01:41	23° Y '22'09	0°32'54
behind sun begin	16345 Apr 16 15:55	9° 8 28'04		minimum elong	16346 Mar 31 03:33	23° Ƴ 31'15	0°32'22
behind sun end	16345 Apr 17 06:10	10° 8 33'48		desc. node	16346 Apr 03 23:41	0° 8 50'48	
desc. node	16345 Apr 17 02:58	10° 8 19'06			16346 Apr 03 12:52	0° 8	
max. Earth dist.	16345 Apr 24 10:12		1.40459 AU	max. Earth dist.	16346 Apr 06 16:04		1.38155 AU
	16345 Apr 28 08:37	Π °0		evening rise	16346 Apr 10 08:57	12° 8 23'56	
evening rise	16345 Apr 28 15:36	0° Ⅱ 28'58			16346 Apr 21 01:01	Π °0	
	16345 May 17 23:44	0∘ ௐ			16346 May 13 03:56	0∘ ௐ	
evening max el	16345 Jun 02 03:42	18° © 44'20	23°34'49	evening max el	16346 May 15 17:05	2° 5 39'09	24°54'47
asc. node	16345 Jun 11 11:47	24° © 54'58		retrograde	16346 May 27 14:01	9° © 34'28	
retrograde	16345 Jun 12 22:20	25° © 03'49		asc. node	16346 May 29 08:50	9° 5 21'11	
evening set	16345 Jun 18 04:54	22°5548'56		evening set	16346 Jun 02 07:55	7° © 08'47	
min. Earth dist.	16345 Jun 22 23:05	17° © 12'56		min. Earth dist.	16346 Jun 06 17:50	2° © 09'55	0.68381 AU
inferior conj	16345 Jun 23 13:46			inferior conj	16346 Jun 07 21:32	0° © 38'18	2°30'09
minimum elong	16345 Jun 23 12:18	16°527'31	2°52'21	minimum elong	16346 Jun 07 19:31	0°5945'01	2°29'01
morning rise	16345 Jun 28 19:43	10° © 16'33			16346 Jun 08 09:09	30°RⅡ	

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morning rise	16346 Jun 13 07:23	24° Ⅱ 41'46		direct	16347 Jun 01 00:25	8° Ⅱ 01'40	
direct	16346 Jun 17 00:40	23° Ⅲ 22'18		morning max el	16347 Jun 07 14:32	11° Ⅲ 32'49	18°38'33
morning max el	16346 Jun 24 05:30	27° Ⅲ 20′18	19°29'18	desc. node	16347 Jun 17 20:49	24° Ⅱ 55'22	
	16346 Jun 26 16:55	0°©			16347 Jun 21 05:05	0°€	
desc. node	16346 Jun 30 23:44	5° © 25'17		morning set	16347 Jun 29 04:26	12° © 23'56	
greatest brilliancy	16346 Jul 06 22:24	13° 9 51'09	-0.6m		16347 Jul 10 11:09	$0^{\circ}\Omega$	
	16346 Jul 17 15:40	$0^{\circ}\Omega$		max. Earth dist.	16347 Jul 14 10:47	6° Ω 12'37	1.45955 AU
morning set	16346 Jul 19 12:54	2° Ω 53'18					
max. Earth dist.	16346 Jul 31 15:43		1.45253 AU	superior conj	16347 Jul 15 05:10	7° Ω 24'16	-2°14'13
man. Darur dige.	100.10 001 01 10.10	21 0011 17	1.10203110	minimum elong	16347 Jul 15 04:15	7°Ω20'43	
superior coni	16246 Aug 04 17:02	28° Ω 06'40	2006/40	minimum clong	16347 Jul 29 14:07	0°m	2 144/
superior conj	16346 Aug 04 17:02					-	
minimum elong	16346 Aug 04 23:06	28° Ω 30'50	2°06'46	evening rise	16347 Jul 30 19:47	1° m 57'47	
	16346 Aug 05 21:27	0° m)		greatest brilliancy	16347 Aug 06 18:21	12° m 58'37	-0.9m
evening rise	16346 Aug 18 21:00	21° Mp 12'06		asc. node	16347 Aug 12 05:46	21° m 25'48	
	16346 Aug 24 04:07	0∘ 亚			16347 Aug 18 11:50	0∘ ಹ	
asc. node	16346 Aug 25 09:03	1° ≏ 58'54		evening max el	16347 Aug 20 18:04	2° ₽ 28'26	18°36'15
evening max el	16346 Sep 06 04:46	18° ≏ 43'17	18°09'53	retrograde	16347 Aug 27 06:33	5° ≏ 59'16	
retrograde	16346 Sep 12 13:27	22° ₽ 04'26		evening set	16347 Aug 30 11:24	5° ഫ 01'05	
evening set	16346 Sep 15 08:59	21° ≏ 22'09		Ü	16347 Sep 04 15:41	30°R, M)	
inferior conj	16346 Sep 21 11:19	15° ≏ 58'58	1°34'47	inferior conj	16347 Sep 05 03:49	29° m 23'00	2°19'15
minimum elong	16346 Sep 21 13:28	15° ⊆ 52'55	1°34'13	minimum elong	16347 Sep 05 06:04	29° m) 16'05	2°18'37
•	*			Č	•	•	
min. Earth dist.	16346 Sep 23 23:58	13° № 10'02	0.63793 AU	min. Earth dist.	16347 Sep 07 02:58	26° m 58'59	0.65730 AU
desc. node	16346 Sep 26 21:15	10° ≏ 20'29		morning rise	16347 Sep 10 23:35	22° m 58'03	
morning rise	16346 Sep 27 16:01	9° ≏ 42'20		desc. node	16347 Sep 13 18:35	21°Mp 09'05	
direct	16346 Oct 04 06:48	7° ≏ 10'03		direct	16347 Sep 17 08:09	20° Mp 20'50	
morning max el	16346 Oct 18 02:57	15° ഫ 08'35	27°40'56	morning max el	16347 Sep 30 14:09	28° Mp 09'02	26°51'17
	16346 Oct 30 07:12	0° M .			16347 Oct 02 08:40	0∘ ত	
	16346 Nov 17 14:07	0° ∡ 7			16347 Oct 24 01:19	0° M	
asc. node	16346 Nov 21 09:57	7° ∡ ¹23'20		morning set	16347 Nov 05 07:27	21° M 41'12	
morning set	16346 Nov 22 00:51	8° ∡ ³37'30		asc. node	16347 Nov 08 06:49	27°M28'59	
max. Earth dist.	16346 Nov 26 19:51	18° ∡ 29'59	1.32315 AU	max. Earth dist.	16347 Nov 09 09:32	29°M42'31	1.33831 AU
max. Earm dist.	10340 NOV 20 19.31	16 🗶 29 39	1.32313 AO	max. Earm dist.	16347 Nov 09 09:32 16347 Nov 09 13:01	29 IIC4231 0° √	1.55651 AU
:	16246 Nam 20, 21.54	259.707115	1011117		1034/ NOV 09 13.01	0 x ·	
superior conj	16346 Nov 29 21:54	25° × ⁷ 07'15	1°11'16		1604531 10 00 05	00 30004	00.40150
minimum elong	16346 Nov 29 19:34	24° ∡ ′54'36	1°11'37	superior conj	16347 Nov 13 23:07	9° ₹ 06'24	0°49'58
	16346 Dec 02 03:35	0°ಕ		minimum elong	16347 Nov 13 20:53	8° ∡ 54'39	0°50'11
evening rise	16346 Dec 06 18:46	10° る 05'44		evening rise	16347 Nov 21 04:45	24° ₹ 29'28	
	16346 Dec 16 20:17	0° ≈			16347 Nov 23 20:04	0°₹	
desc. node	16346 Dec 23 19:32	10° ≈ 47'51		desc. node	16347 Dec 10 16:31	27° る 05'43	
evening max el	16346 Dec 29 21:44	17° ≈ 50'50	23°17'57	evening max el	16347 Dec 11 10:36	27° る 51'24	21°36'54
retrograde	16347 Jan 12 04:17	24° ≈ 24'40		•	16347 Dec 13 20:32	0° ≈ ≈	
evening set	16347 Jan 16 12:59	23° ≈ 43'30		retrograde	16347 Dec 23 14:49	3° ≈ 52'23	
min. Earth dist.	16347 Jan 23 08:27	20° ≈ 31'41	0.54879 AU	evening set	16347 Dec 26 17:15	3° ≈ 30'35	
inferior conj	16347 Jan 24 16:53	19° ≈ 44'52		evening sec	16348 Jan 03 18:45	30°Rる	
minimum elong	16347 Jan 24 22:00	19° ≈ 37'28	5°50'41	inferior conj	16348 Jan 04 08:30	29°る40'47	5056151
Č			3 3041			29° る 46'33	
morning rise	16347 Feb 02 08:22	15°≈53'09		minimum elong	16348 Jan 04 04:23		
direct	16347 Feb 05 01:44	15° ≈ 35'23		min. Earth dist.	16348 Jan 04 13:38	29° る 33'36	0.54375 AU
morning max el	16347 Feb 16 07:24	21° ≈ 01'42	20°39'59	morning rise	16348 Jan 12 16:03	25° る 52'20	
asc. node	16347 Feb 17 08:25	22° ≈ 04'53		direct	16348 Jan 16 10:08	25° る 21'38	
	16347 Feb 23 11:11	0° ∀			16348 Jan 27 09:30	0° ≈	
morning set	16347 Mar 07 04:46	21°) 44'23		morning max el	16348 Jan 29 01:48	1° ≈ 30′19	22°18'02
	16347 Mar 11 04:11	0 ° Υ		asc. node	16348 Feb 04 05:42	8° ≈ 41'34	
					16348 Feb 16 12:54	0° ∀	
superior conj	16347 Mar 14 16:45	7° Ƴ 15'44	0°58'25	morning set	16348 Feb 19 15:29	6° ¥ 27'39	
minimum elong	16347 Mar 14 19:16	7° Y ′28'31	0°58'01	Č			
max. Earth dist.	16347 Mar 19 23:44	17° Y '46'26	1.35950 AU	superior conj	16348 Feb 26 16:39	21°) 31'09	1°17'36
desc. node	16347 Mar 21 20:24	21° Υ 19'36	1.55750 AU	minimum elong	16348 Feb 26 18:58	21°) 43'27	1°17'29
evening rise	16347 Mar 23 20:35	25° Y 04'13		max. Earth dist.	16348 Mar 01 13:40	29°) ₹35'48	1.34030 AU
	16347 Mar 26 13:58	0°₽			16348 Mar 01 18:25	0°Υ	
	16347 Apr 14 14:00	0°Щ		evening rise	16348 Mar 05 22:54	8° Y 19'24	
evening max el	16347 Apr 28 06:43	16° Ⅲ 31′06	26°06'00	desc. node	16348 Mar 07 17:05	11° Y '40'56	
retrograde	16347 May 11 00:55	23° Ⅱ 49'56			16348 Mar 18 03:54	9° 8	
asc. node	16347 May 16 05:57	22° II 02'56			16348 Apr 09 15:41	$\Pi^{\circ}0$	
evening set	16347 May 17 05:14	21° Ⅱ 18′19		evening max el	16348 Apr 09 20:35	0° Ⅱ 11'57	27°00'53
min. Earth dist.	16347 May 21 08:32	16° Ⅲ 55'25	0.67283 AU	retrograde	16348 Apr 23 05:53	7° Ⅱ 42'13	
inferior conj	16347 May 23 01:17	14° ∏ 48'29	1°55'44	evening set	16348 Apr 29 18:52	5° Ⅱ 10'24	
minimum elong	16347 May 22 23:06	14° Ⅱ 55'16	1°54'27	asc. node	16348 May 02 03:07	3° Д 1021	
morning rise	16347 May 28 17:44	9° Ⅱ 02'46	1 574/	min. Earth dist.	16348 May 02 03.07		0.65753 AU
morning rise	1054/ Iviay 28 11.44	э Д 02 4 0		mm. Barui üist.	10340 May 03 17.03	1 112123	0.03/33 AU

	16348 May 04 21:36	30° ₹ 8		minimum elong	16349 Apr 19 10:40	12° 8 28'44	0°07'47
inferior conj	16348 May 05 22:40	28° 8 47'29	1°08'51	transit middle	16349 Apr 19 10:40	12° 8 28'44	0°07'47
minimum elong	16348 May 05 20:59	28° 8 52'18	1°07'43	transit begin	16349 Apr 19 10.40	12 8 28 44	0 0/4/
morning rise	16348 May 12 00:35	28 8 32 18	1 0/43	transit begin transit end	16349 Apr 19 07.36 16349 Apr 19 13:24	12 8 33 32	
_	•	23° 6 29'33			-	12° 8 55'43	
direct	16348 May 14 21:33	25° 8 46'33	10004120	asc. node	16349 Apr 19 00:21	7° 8 10'01	
morning max el	16348 May 21 04:57	_	18°04'39	morning rise	16349 Apr 26 01:08		
	16348 May 24 21:15	0°Ⅱ 140Ⅲ40107		direct	16349 Apr 28 13:22	6° 8 38'36	17047150
desc. node	16348 Jun 03 17:49	14° Ⅱ 49'07		morning max el	16349 May 04 22:18	9° 8 53'44	17°47'58
morning set	16348 Jun 08 21:05	23° Ⅱ 07'36			16349 May 18 16:02	0°Щ	
	16348 Jun 13 03:10	0		morning set	16349 May 21 16:27	5° Ⅱ 06'50	
		_		desc. node	16349 May 21 14:44	4° Ⅱ 59'31	
superior conj	16348 Jun 23 15:48	16° © 43'52				_	
minimum elong	16348 Jun 23 08:23	16° © 14'44		superior conj	16349 Jun 03 16:56	26° Ⅱ 46'14	
max. Earth dist.	16348 Jun 26 07:37	20°953'40	1.45903 AU	minimum elong	16349 Jun 03 08:43	26° Ⅱ 12'58	1°32'59
	16348 Jul 02 04:05	0 $^{\circ}$ Ω			16349 Jun 05 17:03	0 \circ \odot	
evening rise	16348 Jul 09 19:11	11° Ω 47'17		max. Earth dist.	16349 Jun 09 03:07	5° © 26'46	1.45112 AU
	16348 Jul 21 17:49	O°Mp		evening rise	16349 Jun 19 06:00	21° © 10'28	
greatest brilliancy	16348 Jul 22 04:21	0° ™ 39′10	-0.7m		16349 Jun 25 01:38	$0^{\circ}\Omega$	
asc. node	16348 Jul 29 02:31	10° m 27′32		asc. node	16349 Jul 15 23:20	28° Ω 54'28	
evening max el	16348 Aug 03 03:09	16° Mp 21′04	19°19'19		16349 Jul 17 00:18	0° m)	
retrograde	16348 Aug 10 03:52	20° m 14'38		evening max el	16349 Jul 17 06:21	0° Mp 15′12	20°17'41
evening set	16348 Aug 13 18:35	18° m 58'57		retrograde	16349 Jul 25 02:53	4° Mp 43'20	
inferior conj	16348 Aug 19 04:24	13° m 07'30	2°48'14	evening set	16349 Jul 29 04:04	3° Mp 09'42	
minimum elong	16348 Aug 19 06:07	13° Mp 01'53	2°47'41	•	16349 Aug 01 05:47	30°R€	
min. Earth dist.	16348 Aug 20 13:29	11° m)19'19	0.67282 AU	inferior conj	16349 Aug 03 10:20	27° Ω 06'16	3°04'01
morning rise	16348 Aug 24 17:03	6° m 40'40		minimum elong	16349 Aug 03 11:12	27° Ω 03'19	3°03'31
direct	16348 Aug 30 16:09	4° m 06'54		min. Earth dist.	16349 Aug 04 05:38	26° Ω 00'16	0.68386 AU
desc. node	16348 Aug 30 15:54	4° m) 06'54		morning rise	16349 Aug 08 18:00	20° Ω 41'58	
morning max el	16348 Sep 12 01:31		25°39'06	direct	16349 Aug 14 05:48	18° Ω 18'21	
morning man er	16348 Sep 26 21:26	0∘ ⊽	20 0,00	desc. node	16349 Aug 17 13:13	19° Ω 01'55	
	16348 Oct 15 16:53	0° ™		morning max el	16349 Aug 25 12:35		24°13'45
morning set	16348 Oct 17 23:47	4°M06'22		morning max er	16349 Aug 30 00:14	0° m)	24 13 43
max. Earth dist.	16348 Oct 21 14:10	10°M47'20	1.35840 AU		16349 Sep 20 08:29	0∘ ⊽	
asc. node	16348 Oct 25 03:37	17°M39'57	1.55640 AU	morning set	16349 Sep 29 21:44	0 = 15° £ 43'31	
asc. Houe	10346 Oct 23 03.37	17 1163937		max. Earth dist.	16349 Oct 03 13:25	22° 2 07'58	1.38169 AU
superior conj	16348 Oct 27 16:00	22°M40'30	0°22'37	max. Earm dist.	16349 Oct 03 13:23	0°M₁	1.36109 AU
		22°M33'56	0°22'51		10349 Oct 07 20.33	0 IIG	
minimum elong	16348 Oct 27 14:42		0 22 31		16240 0 4 10 21 00	50 m 40157	0010100
	16348 Oct 31 06:13	0° 🗷		superior conj	16349 Oct 10 21:08	5°M40'57	
evening rise	16348 Nov 04 11:58	8° ₹ 45'07		minimum elong	16349 Oct 10 21:49	5°M44'11	0°09'41
	16348 Nov 15 21:14	0°る	20011107	behind sun begin	16349 Oct 10 16:14	5°M17'32	
evening max el	16348 Nov 22 11:12	8° る 26'29	20°11'06	behind sun end	16349 Oct 11 03:23	6°M10'53	
desc. node	16348 Nov 26 13:32	11° る 45'00		asc. node	16349 Oct 12 00:24	7° M ₅52'01	
retrograde	16348 Dec 03 02:25	13° ප් 44'17		evening rise	16349 Oct 19 13:55	22°M46'10	
evening set	16348 Dec 05 07:19	13° පි 31'41			16349 Oct 23 06:32	0° ∡ ¹	
inferior conj	16348 Dec 14 02:06	9° る 35'03		evening max el	16349 Nov 05 02:22	19° ⋌ '51'41 –	19°07'07
minimum elong	16348 Dec 13 16:18	9° る 49'40	4°58'39	desc. node	16349 Nov 13 10:38	24° ∡ ¹23'11	
min. Earth dist.	16348 Dec 15 19:27	8° ප 33'23	0.54810 AU	retrograde	16349 Nov 14 03:29	24° ₹ ¹24'46	
morning rise	16348 Dec 22 00:33	5° る 31'02		evening set	16349 Nov 16 00:53	24° х' 13'39 –	
direct	16348 Dec 26 20:20	4° る 40'37		inferior conj	16349 Nov 24 11:01	20° ∡ ¹00′20	
morning max el	16349 Jan 09 11:00	11° る 23'57	24°07'57	minimum elong	16349 Nov 24 02:37	20° ∡ 14'38	
asc. node	16349 Jan 21 02:56	26° る 22'05		min. Earth dist.	16349 Nov 27 05:36	18° ∡ '07'07	0.56100 AU
	16349 Jan 23 07:34	0° ≈		morning rise	16349 Dec 02 01:47	15° ∡ 24′02	
morning set	16349 Feb 03 03:27	21° ≈ 10′20		direct	16349 Dec 07 18:25	14° ₹ 08'45	
	16349 Feb 07 04:44	0° ∀		morning max el	16349 Dec 21 20:51	21° ∡ ¹20'12	25°51'47
					16349 Dec 29 09:47	0°₹	
superior conj	16349 Feb 09 22:35	6°) €00'47	1°30'27	asc. node	16350 Jan 08 00:07	14°る50'50	
minimum elong	16349 Feb 10 00:12	6°) €09'34	1°30'39		16350 Jan 15 21:15	0° ≈	
max. Earth dist.	16349 Feb 12 11:15	11° ¥ 28′56	1.32523 AU	morning set	16350 Jan 18 14:52	5° ≈ 47'24	
evening rise	16349 Feb 17 12:34	22° ₭ 01'06					
				superior conj	16350 Jan 25 08:16	20° ≈ 38'13	1°37'07
	16349 Feb 21 14:20	0 ° Υ					
desc. node	16349 Feb 21 14:20 16349 Feb 22 13:46	0°γ′ 1° Υ ′50'22		minimum elong	16350 Jan 25 08:54	20° ≈ 41'44	1°37'34
desc. node				minimum elong max. Earth dist.		20°≈41'44 23°≈29'19	1°37'34 1.31501 AU
desc. node	16349 Feb 22 13:46	1° Y ′50′22	27°31'59	C	16350 Jan 25 08:54		
	16349 Feb 22 13:46 16349 Mar 11 23:13	1° Y 50'22 0° と	27°31'59	C	16350 Jan 25 08:54 16350 Jan 26 15:07	23° ≈ 29'19	
evening max el	16349 Feb 22 13:46 16349 Mar 11 23:13 16349 Mar 23 09:18	1°Υ50'22 0°႘ 13°႘29'54	27°31'59	max. Earth dist.	16350 Jan 25 08:54 16350 Jan 26 15:07 16350 Jan 29 14:30	23° ≈ 29'19 0°) €	
evening max el retrograde	16349 Feb 22 13:46 16349 Mar 11 23:13 16349 Mar 23 09:18 16349 Apr 06 04:07	1°Y50'22 0°8 13°829'54 21°802'03	27°31'59 0.63853 AU	max. Earth dist.	16350 Jan 25 08:54 16350 Jan 26 15:07 16350 Jan 29 14:30 16350 Feb 01 10:45	23°≈29'19 0°¥ 6°¥02'40	
evening max el retrograde evening set	16349 Feb 22 13:46 16349 Mar 11 23:13 16349 Mar 23 09:18 16349 Apr 06 04:07 16349 Apr 12 22:35	1°Y50'22 0°8 13°829'54 21°802'03 18°836'44		max. Earth dist.	16350 Jan 25 08:54 16350 Jan 26 15:07 16350 Jan 29 14:30 16350 Feb 01 10:45 16350 Feb 09 10:29	23°≈29'19 0°¥ 6°¥02'40 21°¥42'36	1.31501 AU

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	16350 Mar 10 06:44	0°8			16351 Feb 08 16:14	0° Y	
retrograde	16350 Mar 19 18:42	3° 8 40'02		evening max el	16351 Feb 15 22:49	8° Y 09'13	26°59'16
Č	16350 Mar 26 13:49	1° 8 28'45			16351 Mar 01 23:58	15° Υ 25'45	20 39 10
evening set		_		retrograde			
	16350 Mar 28 15:16	30° ₹ Υ		evening set	16351 Mar 08 13:20	13° Y 35'53	
min. Earth dist.	16350 Mar 30 08:16		0.61687 AU	min. Earth dist.	16351 Mar 12 13:02		0.59418 AU
inferior conj	16350 Apr 02 10:47	25° Y 42'36		inferior conj	16351 Mar 15 18:29	8° Ƴ 19'57	
minimum elong	16350 Apr 02 13:07	25° Ƴ 37'12	1°05'41	minimum elong	16351 Mar 16 00:21	8° Y 08'09	2°31'04
asc. node	16350 Apr 05 21:37	22° Ƴ 45'31		morning rise	16351 Mar 23 14:59	3° Ƴ 39'27	
morning rise	16350 Apr 09 15:40	20° Ƴ 42'04		asc. node	16351 Mar 23 18:56	3° Y 37'07	
direct	16350 Apr 11 20:28	20° Y 20'46		direct	16351 Mar 25 14:43	3° Y 24'35	
morning max el	16350 Apr 18 15:34	23° Y '45'53	17°49'03	morning max el	16351 Apr 02 05:04	7° Ƴ 11'13	18°09'01
•	16350 Apr 23 16:05	0°B			16351 Apr 16 19:28	0° ႘	
morning set	16350 May 04 09:57	18° 8 07'58		morning set	16351 Apr 17 19:39	1° 8 52'48	
desc. node	16350 May 08 11:36	25° 8 21'40		desc. node	16351 Apr 25 08:25	15° 8 50'32	
dose. Hode	16350 May 11 03:02	0°II		dese. node	1050111pr 20 00.20	10 00002	
	10330 Way 11 03.02	υ д		superior conj	16351 Apr 27 15:31	19° 8 59'02	0°10'01
superior conj	16350 May 15 16:52	7° Ⅱ 52'09	0°56'40	minimum elong	16351 Apr 27 13:58	19° 8 52'04	
	•	7° Ⅱ 32'09 7° Ⅱ 30'20		minimum ciong	-	_	0 1913
minimum elong	16350 May 15 11:43			To all the	16351 May 03 09:07	0°II	1 41720 411
max. Earth dist.	16350 May 22 18:54	19° Ⅱ 36'17	1.43671 AU	max. Earth dist.	16351 May 05 05:53	3° Ⅱ 09'25	1.41730 AU
	16350 May 29 07:53	0 \circ \odot		evening rise	16351 May 10 05:29	11° Ⅱ 21'39	
evening rise	16350 May 29 21:13	0°951'57			16351 May 22 07:13	0 \circ \odot	
	16350 Jun 18 15:14	$0^{\circ}\Omega$		evening max el	16351 Jun 12 20:06	28° © 03'46	22°47'53
evening max el	16350 Jun 30 03:33	14° Ω 09'18	21°28'38		16351 Jun 14 21:47	$0 {\circ} \Omega$	
asc. node	16350 Jul 02 20:12	16° Ω 35'11		asc. node	16351 Jun 19 17:09	3° Ω 14'32	
retrograde	16350 Jul 09 01:41	19° Ω 20′04		retrograde	16351 Jun 22 22:37	3° Ω 59'06	
evening set	16350 Jul 13 13:54	17° Ω 29'07		evening set	16351 Jun 27 22:23	1° Ω 52'25	
inferior conj	16350 Jul 18 19:21	11° Ω 15′12	3°08'12		16351 Jun 29 18:54	30° ₹ ∽	
minimum elong	16350 Jul 18 19:15	11° Ω 15'32	3°07'38	inferior conj	16351 Jul 03 05:24	25° © 29'58	3°01'42
min. Earth dist.	16350 Jul 19 01:19	10° Ω 54'23	0.69017 AU	minimum elong	16351 Jul 03 04:24	25° © 33'27	3°00'58
morning rise	16350 Jul 24 00:23	4° Ω 56'26		min. Earth dist.	16351 Jul 02 22:18	25° © 54'37	0.69159 AU
direct	16350 Jul 29 00:10	2° Ω 47'49		morning rise	16351 Jul 08 10:16	19° © 18'46	
desc. node	16350 Aug 04 10:31	5° Ω 31'18		direct	16351 Jul 12 21:56	17° © 28'19	
morning max el	16350 Aug 08 00:37	8° Ω 43'41	22°44'32	morning max el	16351 Jul 21 16:15	22° © 32'34	21°19'45
	16350 Aug 24 17:00	0° m)		desc. node	16351 Jul 22 07:46	23°912'03	
morning set	16350 Sep 10 21:22	26° Mp 23'47		dese. Hode	16351 Jul 28 02:55	0°Ω	
morning sec	16350 Sep 13 01:48	0° ⊽			16351 Aug 17 23:33	0° m)	
max. Earth dist.	16350 Sep 15 01:10		1.40576 AU	morning set	16351 Aug 21 21:24	6° Mp 04'31	
max. Larm dist.	10330 вер 13 13.11	T =0723	1.40370710	max. Earth dist.	16351 Aug 28 18:31	~	1.42779 AU
superior conj	16350 Sep 23 10:26	17° Ω 58'38	0°46'30	max. Earth dist.	10331 Aug 26 16.31	17 11004 30	1.42/19 AU
minimum elong	16350 Sep 23 14:05	17 ⊆ 38 38 18° ⊆ 15'12		superior conj	16351 Sep 05 03:31	29° m 24'01	1022105
asc. node	16350 Sep 28 21:08	28° £ 01'42	0 43 44				1°22'16
asc. node	•			minimum elong	16351 Sep 05 10:20		1 22 10
	16350 Sep 29 22:17	0°M		,	16351 Sep 05 11:55	0° ™	
evening rise	16350 Oct 03 07:33	6°M24'46		asc. node	16351 Sep 15 17:52	18° ≙ 05'24	
	16350 Oct 17 08:31	0° ⋌ ¹		evening rise	16351 Sep 16 12:48		
evening max el	16350 Oct 19 05:37	2° ₹ 04'56	18°25'27		•	19° £ 30'46	
retrograde		_	10 23 27		16351 Sep 22 09:50	0° M	
avaning sat	16350 Oct 26 23:27	6° ∡ 101′02	10 23 27	evening max el	16351 Sep 22 09:50 16351 Oct 02 16:37	0° ጤ 14° ጤ 56'27	18°04'31
evening set	16350 Oct 28 23:14	5° ∡ ¹46′09	10 23 27	retrograde	16351 Sep 22 09:50 16351 Oct 02 16:37 16351 Oct 09 13:29	0° ጤ 14° ጤ 56'27 18° ጤ 28'18	18°04'31
desc. node			10 23 27	retrograde evening set	16351 Sep 22 09:50 16351 Oct 02 16:37	0°M 14°M56'27 18°M28'18 18°M05'27	18°04'31
desc. node inferior conj	16350 Oct 28 23:14	5° 🖈 46'09 4° 🖈 53'05 1° 🖈 11'56	-1°44'28	retrograde	16351 Sep 22 09:50 16351 Oct 02 16:37 16351 Oct 09 13:29	0°M 14°M56'27 18°M28'18 18°M05'27 13°M46'00	
desc. node	16350 Oct 28 23:14 16350 Oct 31 07:50	5° х 46′09 4° х 53′05	-1°44'28	retrograde evening set	16351 Sep 22 09:50 16351 Oct 02 16:37 16351 Oct 09 13:29 16351 Oct 11 19:55	0°M 14°M56'27 18°M28'18 18°M05'27	
desc. node inferior conj	16350 Oct 28 23:14 16350 Oct 31 07:50 16350 Nov 05 17:21	5° 🖈 46'09 4° 🖈 53'05 1° 🖈 11'56	-1°44'28	retrograde evening set desc. node	16351 Sep 22 09:50 16351 Oct 02 16:37 16351 Oct 09 13:29 16351 Oct 11 19:55 16351 Oct 18 05:05	0°M 14°M56'27 18°M28'18 18°M05'27 13°M46'00	
desc. node inferior conj	16350 Oct 28 23:14 16350 Oct 31 07:50 16350 Nov 05 17:21 16350 Nov 05 13:17	5° 🖈 46'09 4° 🖈 53'05 1° 🖈 11'56 1° 🖈 20'03	-1°44'28	retrograde evening set desc. node inferior conj	16351 Sep 22 09:50 16351 Oct 02 16:37 16351 Oct 09 13:29 16351 Oct 11 19:55 16351 Oct 18 05:05 16351 Oct 18 20:42	0°M 14°M56'27 18°M28'18 18°M05'27 13°M46'00 13°M10'13	-0°12'23
desc. node inferior conj minimum elong	16350 Oct 28 23:14 16350 Oct 31 07:50 16350 Nov 05 17:21 16350 Nov 05 13:17 16350 Nov 07 05:16	5° \$\times^46'09 4° \$\times^53'05 1° \$\times^11'56 1° \$\times^220'03 30° RML	-1°44'28 1°42'15	retrograde evening set desc. node inferior conj minimum elong	16351 Sep 22 09:50 16351 Oct 02 16:37 16351 Oct 09 13:29 16351 Oct 11 19:55 16351 Oct 18 05:05 16351 Oct 18 20:42 16351 Oct 18 20:18	0°M 14°M56'27 18°M28'18 18°M05'27 13°M46'00 13°M10'13 13°M11'09	-0°12'23 0°11'49
desc. node inferior conj minimum elong min. Earth dist.	16350 Oct 28 23:14 16350 Oct 31 07:50 16350 Nov 05 17:21 16350 Nov 05 13:17 16350 Nov 07 05:16 16350 Nov 08 22:50	5° \$\times^46'09 4° \$\times^53'05 1° \$\times^111'56 1° \$\times^220'03 30° RML 28° \$\mathrm{N}\$38'34	-1°44'28 1°42'15	retrograde evening set desc. node inferior conj minimum elong transit middle	16351 Sep 22 09:50 16351 Oct 02 16:37 16351 Oct 09 13:29 16351 Oct 11 19:55 16351 Oct 18 05:05 16351 Oct 18 20:42 16351 Oct 18 20:18 16351 Oct 18 20:18	0°ML 14°ML56'27 18°ML28'18 18°ML05'27 13°ML46'00 13°ML10'13 13°ML11'09 13°ML11'09	-0°12'23 0°11'49
desc. node inferior conj minimum elong min. Earth dist. morning rise	16350 Oct 28 23:14 16350 Oct 31 07:50 16350 Nov 05 17:21 16350 Nov 05 13:17 16350 Nov 07 05:16 16350 Nov 08 22:50 16350 Nov 12 23:52	5° \(\frac{7}{4}6'09\) 4° \(\frac{7}{5}3'05\) 1° \(\frac{7}{1}1'56\) 1° \(\frac{7}{2}0'03\) 30° \(\frac{1}{8}\) 28° \(\frac{1}{3}8'34\) 25° \(\frac{1}{5}8'48\)	-1°44'28 1°42'15	retrograde evening set desc. node inferior conj minimum elong transit middle transit begin	16351 Sep 22 09:50 16351 Oct 02 16:37 16351 Oct 09 13:29 16351 Oct 11 19:55 16351 Oct 18 05:05 16351 Oct 18 20:18 16351 Oct 18 20:18 16351 Oct 18 20:18	0°M 14°M56'27 18°M28'18 18°M05'27 13°M10'13 13°M11'09 13°M11'09 13°M16'23	-0°12'23 0°11'49
desc. node inferior conj minimum elong min. Earth dist. morning rise	16350 Oct 28 23:14 16350 Oct 31 07:50 16350 Nov 05 17:21 16350 Nov 05 13:17 16350 Nov 07 05:16 16350 Nov 08 22:50 16350 Nov 12 23:52 16350 Nov 19 07:15	5° \(\frac{\pi}{4}\) 46'09 4° \(\frac{\pi}{5}\) 3'05 1° \(\frac{\pi}{1}\) 11'56 1° \(\frac{\pi}{2}\) 20'03 30° \(\frac{\pi}{2}\) 28° \(\frac{\pi}{3}\) 3'34 25° \(\frac{\pi}{5}\) 16'20	-1°44'28 1°42'15 0.58022 AU	retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end	16351 Sep 22 09:50 16351 Oct 02 16:37 16351 Oct 09 13:29 16351 Oct 11 19:55 16351 Oct 18 05:05 16351 Oct 18 20:42 16351 Oct 18 20:18 16351 Oct 18 20:18 16351 Oct 18 18:02 16351 Oct 18 22:34	0°M 14°M56'27 18°M28'18 18°M05'27 13°M10'13 13°M11'19 13°M11'09 13°M16'23 13°M05'54	-0°12'23 0°11'49 0°11'49
desc. node inferior conj minimum elong min. Earth dist. morning rise direct	16350 Oct 28 23:14 16350 Oct 31 07:50 16350 Nov 05 17:21 16350 Nov 05 13:17 16350 Nov 07 05:16 16350 Nov 08 22:50 16350 Nov 12 23:52 16350 Nov 19 07:15 16350 Dec 01 13:47	5° \$\times^46'09 4° \$\times^53'05 1° \$\times^111'56 1° \$\times^220'03 30° RM 28° \$M\$_38'34 25° \$M\$_58'48 24° \$M\$_16'20 0° \$\times^1	-1°44'28 1°42'15 0.58022 AU	retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist.	16351 Sep 22 09:50 16351 Oct 02 16:37 16351 Oct 09 13:29 16351 Oct 11 19:55 16351 Oct 18 05:05 16351 Oct 18 20:42 16351 Oct 18 20:18 16351 Oct 18 20:18 16351 Oct 18 18:02 16351 Oct 18 22:34 16351 Oct 18 22:34	0°ML 14°ML56'27 18°ML28'18 18°ML05'27 13°ML10'13 13°ML11'09 13°ML11'09 13°ML16'23 13°ML05'54 10°ML15'23	-0°12'23 0°11'49 0°11'49
desc. node inferior conj minimum elong min. Earth dist. morning rise direct	16350 Oct 28 23:14 16350 Oct 31 07:50 16350 Nov 05 17:21 16350 Nov 05 13:17 16350 Nov 07 05:16 16350 Nov 08 22:50 16350 Nov 12 23:52 16350 Nov 19 07:15 16350 Dec 01 13:47 16350 Dec 03 13:38	5° \$\times^46'09 4° \$\times^53'05 1° \$\times^11'56 1° \$\times^220'03 30° RM 28° M.38'34 25° M.58'48 24° M.16'20 0° \$\times^1 1° \$\times^449'47	-1°44'28 1°42'15 0.58022 AU	retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise	16351 Sep 22 09:50 16351 Oct 02 16:37 16351 Oct 09 13:29 16351 Oct 11 19:55 16351 Oct 18 05:05 16351 Oct 18 20:42 16351 Oct 18 20:18 16351 Oct 18 20:18 16351 Oct 18 18:02 16351 Oct 18 22:34 16351 Oct 22 00:56 16351 Oct 25 17:30	0°ML 14°ML56'27 18°ML28'18 18°ML05'27 13°ML10'13 13°ML11'09 13°ML11'09 13°ML16'23 13°ML05'54 10°ML15'23 7°ML25'20	-0°12'23 0°11'49 0°11'49 0.60267 AU
desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	16350 Oct 28 23:14 16350 Oct 31 07:50 16350 Nov 05 17:21 16350 Nov 05 13:17 16350 Nov 07 05:16 16350 Nov 08 22:50 16350 Nov 12 23:52 16350 Nov 19 07:15 16350 Dec 01 13:47 16350 Dec 03 13:38 16350 Dec 23 17:45	5° ₹46′09 4° ₹53′05 1° ₹11′56 1° ₹20′03 30° RM 28° M.38′34 25° M.58′48 24° M.16′20 0° ₹ 1° ₹49′47 0° ₹	-1°44'28 1°42'15 0.58022 AU	retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct	16351 Sep 22 09:50 16351 Oct 02 16:37 16351 Oct 09 13:29 16351 Oct 11 19:55 16351 Oct 18 05:05 16351 Oct 18 20:42 16351 Oct 18 20:18 16351 Oct 18 20:18 16351 Oct 18 18:02 16351 Oct 18 22:34 16351 Oct 22 00:56 16351 Oct 25 17:30 16351 Nov 01 08:42	0°ML 14°ML56'27 18°ML28'18 18°ML05'27 13°ML10'13 13°ML11'09 13°ML11'09 13°ML16'23 13°ML05'54 10°ML15'23 7°ML25'20 5°ML18'23	-0°12'23 0°11'49 0°11'49 0.60267 AU
desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	16350 Oct 28 23:14 16350 Oct 31 07:50 16350 Nov 05 17:21 16350 Nov 05 13:17 16350 Nov 07 05:16 16350 Nov 08 22:50 16350 Nov 12 23:52 16350 Nov 19 07:15 16350 Dec 01 13:47 16350 Dec 03 13:38 16350 Dec 23 17:45 16350 Dec 25 21:15	5° ₹46′09 4° ₹53′05 1° ₹11′56 1° ₹20′03 30° RM 28° M.38′34 25° M.58′48 24° M.16′20 0° ₹ 1° ₹49′47 0° ₹ 3° ₹55′02	-1°44'28 1°42'15 0.58022 AU	retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct	16351 Sep 22 09:50 16351 Oct 02 16:37 16351 Oct 09 13:29 16351 Oct 11 19:55 16351 Oct 18 05:05 16351 Oct 18 20:42 16351 Oct 18 20:18 16351 Oct 18 20:18 16351 Oct 18 18:02 16351 Oct 18 22:34 16351 Oct 22 00:56 16351 Oct 25 17:30 16351 Nov 01 08:42 16351 Nov 15 14:27	0°ML 14°ML56'27 18°ML28'18 18°ML05'27 13°ML0'13 13°ML10'09 13°ML11'09 13°ML16'23 13°ML05'54 10°ML15'23 7°ML25'20 5°ML18'23 13°ML07'16	-0°12'23 0°11'49 0°11'49 0.60267 AU
desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	16350 Oct 28 23:14 16350 Oct 31 07:50 16350 Nov 05 17:21 16350 Nov 05 13:17 16350 Nov 07 05:16 16350 Nov 08 22:50 16350 Nov 12 23:52 16350 Nov 19 07:15 16350 Dec 01 13:47 16350 Dec 03 13:38 16350 Dec 23 17:45 16350 Dec 25 21:15 16351 Jan 02 23:52	5° ₹46′09 4° ₹53′05 1° ₹11′56 1° ₹20′03 30° RM 28° M.38′34 25° M.58′48 24° M.16′20 0° ₹ 1° ₹49′47 0° ₹ 3° ₹55′02 20° ₹13′10	-1°44'28 1°42'15 0.58022 AU	retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct morning max el	16351 Sep 22 09:50 16351 Oct 02 16:37 16351 Oct 09 13:29 16351 Oct 11 19:55 16351 Oct 18 05:05 16351 Oct 18 20:42 16351 Oct 18 20:18 16351 Oct 18 20:18 16351 Oct 18 20:18 16351 Oct 18 18:02 16351 Oct 18 22:34 16351 Oct 22 00:56 16351 Oct 25 17:30 16351 Nov 10 08:42 16351 Nov 15 14:27 16351 Nov 29 01:47 16351 Dec 12 18:18	0°ML 14°ML56'27 18°ML28'18 18°ML05'27 13°ML10'13 13°ML11'09 13°ML11'09 13°ML16'23 13°ML05'54 10°ML15'23 7°ML25'20 5°ML18'23 13°ML07'16 0° ✓	-0°12'23 0°11'49 0°11'49 0.60267 AU
desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	16350 Oct 28 23:14 16350 Oct 31 07:50 16350 Nov 05 17:21 16350 Nov 05 13:17 16350 Nov 07 05:16 16350 Nov 08 22:50 16350 Nov 12 23:52 16350 Nov 19 07:15 16350 Dec 01 13:47 16350 Dec 03 13:38 16350 Dec 23 17:45 16350 Dec 25 21:15 16351 Jan 02 23:52 16351 Jan 07 10:57	5° ₹46′09 4° ₹53′05 1° ₹11′56 1° ₹20′03 30° RM 28° M.38′34 25° M.58′48 24° M.16′20 0° ₹ 1° ₹49′47 0° ₹ 3° ₹555′02 20° ₹13′10 0° ≈	-1°44'28 1°42'15 0.58022 AU 27°10'37	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	16351 Sep 22 09:50 16351 Oct 02 16:37 16351 Oct 09 13:29 16351 Oct 11 19:55 16351 Oct 18 05:05 16351 Oct 18 20:42 16351 Oct 18 20:18 16351 Oct 18 20:18 16351 Oct 18 20:18 16351 Oct 18 18:02 16351 Oct 18 22:34 16351 Oct 22 00:56 16351 Oct 25 17:30 16351 Nov 01 08:42 16351 Nov 01 08:42 16351 Nov 29 01:47 16351 Dec 12 18:18 16351 Dec 16 01:45	0°ML 14°M.56'27 18°M.28'18 18°M.05'27 13°M.46'00 13°M.10'13 13°M.11'09 13°M.11'09 13°M.16'23 13°M.05'54 10°M.15'23 7°M.25'20 5°M.18'23 13°M.07'16 0° 23° 23° 23° 25'12 0° 5° 18'25'12	-0°12'23 0°11'49 0°11'49 0.60267 AU
desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	16350 Oct 28 23:14 16350 Oct 31 07:50 16350 Nov 05 17:21 16350 Nov 05 13:17 16350 Nov 07 05:16 16350 Nov 08 22:50 16350 Nov 12 23:52 16350 Nov 19 07:15 16350 Dec 01 13:47 16350 Dec 03 13:38 16350 Dec 23 17:45 16350 Dec 25 21:15 16351 Jan 02 23:52 16351 Jan 07 10:57	5° ₹46′09 4° ₹53′05 1° ₹11′56 1° ₹20′03 30° RM 28° M.38′34 25° M.58′48 24° M.16′20 0° ₹ 1° ₹49′47 0° ₹ 3° ₹55′02 20° ₹13′10 0° ≈ 5° ≈16′46	-1°44'28 1°42'15 0.58022 AU 27°10'37	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	16351 Sep 22 09:50 16351 Oct 02 16:37 16351 Oct 09 13:29 16351 Oct 11 19:55 16351 Oct 18 05:05 16351 Oct 18 20:42 16351 Oct 18 20:18 16351 Oct 18 20:18 16351 Oct 18 20:18 16351 Oct 18 18:02 16351 Oct 18 22:34 16351 Oct 22 00:56 16351 Oct 25 17:30 16351 Nov 15 14:27 16351 Nov 15 14:27 16351 Nov 29 01:47 16351 Dec 12 18:18 16351 Dec 16 01:45 16351 Dec 18 04:35	0°ML 14°M.56'27 18°M.28'18 18°M.05'27 13°M.46'00 13°M.10'13 13°M.11'09 13°M.11'09 13°M.16'23 13°M.05'54 10°M.15'23 7°M.25'20 5°M.18'23 13°M.07'16 0° 23° 23° 23° 23° 23° 23° 23°	-0°12'23 0°11'49 0°11'49 0.60267 AU 27°52'54
desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	16350 Oct 28 23:14 16350 Oct 31 07:50 16350 Nov 05 17:21 16350 Nov 05 13:17 16350 Nov 07 05:16 16350 Nov 08 22:50 16350 Nov 12 23:52 16350 Nov 19 07:15 16350 Dec 01 13:47 16350 Dec 03 13:38 16350 Dec 23 17:45 16350 Dec 25 21:15 16351 Jan 02 23:52 16351 Jan 07 10:57 16351 Jan 09 19:35 16351 Jan 09 19:09	5° ₹46'09 4° ₹53'05 1° ₹11'56 1° ₹20'03 30° RM 28° M.38'34 25° M.58'48 24° M.16'20 0° ₹ 1° ₹49'47 0° ₹ 3° ₹55'02 20° ₹13'10 0° ≈ 5° ≈16'46 5° ≈14'22	-1°44'28 1°42'15 0.58022 AU 27°10'37	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	16351 Sep 22 09:50 16351 Oct 02 16:37 16351 Oct 09 13:29 16351 Oct 11 19:55 16351 Oct 18 05:05 16351 Oct 18 20:42 16351 Oct 18 20:18 16351 Oct 18 20:18 16351 Oct 18 20:18 16351 Oct 18 18:02 16351 Oct 18 22:34 16351 Oct 22 00:56 16351 Oct 25 17:30 16351 Nov 01 08:42 16351 Nov 01 08:42 16351 Nov 29 01:47 16351 Dec 12 18:18 16351 Dec 16 01:45	0°ML 14°M.56'27 18°M.28'18 18°M.05'27 13°M.46'00 13°M.10'13 13°M.11'09 13°M.11'09 13°M.16'23 13°M.05'54 10°M.15'23 7°M.25'20 5°M.18'23 13°M.07'16 0° 23° 23° 23° 25'12 0° 5° 18'25'12	-0°12'23 0°11'49 0°11'49 0.60267 AU
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.	16350 Oct 28 23:14 16350 Oct 31 07:50 16350 Nov 05 17:21 16350 Nov 05 13:17 16350 Nov 07 05:16 16350 Nov 08 22:50 16350 Nov 12 23:52 16350 Nov 19 07:15 16350 Dec 01 13:47 16350 Dec 03 13:38 16350 Dec 23 17:45 16350 Dec 25 21:15 16351 Jan 02 23:52 16351 Jan 07 10:57 16351 Jan 09 19:35 16351 Jan 09 19:09 16351 Jan 09 22:17	5° ₹46'09 4° ₹53'05 1° ₹11'56 1° ₹20'03 30° RM 28° M.38'34 25° M.58'48 24° M.16'20 0° ₹ 1° ₹49'47 0° ₹ 3° ₹55'02 20° ₹13'10 0° ≈ 5° ≈16'46 5° ≈14'22 5° ≈31'55	-1°44'28 1°42'15 0.58022 AU 27°10'37	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 max. Earth dist.	16351 Sep 22 09:50 16351 Oct 02 16:37 16351 Oct 09 13:29 16351 Oct 18 05:05 16351 Oct 18 20:42 16351 Oct 18 20:42 16351 Oct 18 20:18 16351 Oct 18 20:18 16351 Oct 18 20:18 16351 Oct 18 22:34 16351 Oct 18 22:34 16351 Oct 22 00:56 16351 Oct 25 17:30 16351 Nov 10 08:42 16351 Nov 10 08:42 16351 Nov 29 01:47 16351 Dec 12 18:18 16351 Dec 16 01:45 16351 Dec 18 04:35 16351 Dec 24 05:20	0°M. 14°M.56'27 18°M.28'18 18°M.05'27 13°M.46'00 13°M.10'13 13°M.11'09 13°M.16'23 13°M.05'54 10°M.15'23 7°M.25'20 5°M.18'23 13°M.07'16 0° 23° 23° 23° 23° 23° 23° 30'05	-0°12'23 0°11'49 0°11'49 0.60267 AU 27°52'54
desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	16350 Oct 28 23:14 16350 Oct 31 07:50 16350 Nov 05 17:21 16350 Nov 05 13:17 16350 Nov 07 05:16 16350 Nov 08 22:50 16350 Nov 12 23:52 16350 Nov 19 07:15 16350 Dec 01 13:47 16350 Dec 03 13:38 16350 Dec 23 17:45 16351 Jan 02 23:52 16351 Jan 02 23:52 16351 Jan 09 19:35 16351 Jan 09 19:09 16351 Jan 09 19:09 16351 Jan 09 22:17 16351 Jan 09 22:17	5° ₹46'09 4° ₹53'05 1° ₹11'56 1° ₹20'03 30° RM 28° M.38'34 25° M.58'48 24° M.16'20 0° ₹ 1° ₹49'47 0° ♂ 3° ♂55'02 20° ♂13'10 0° ≈ 5° ≈16'46 5° ≈14'22 5° ≈31'55 20° ≈17'26	-1°44'28 1°42'15 0.58022 AU 27°10'37	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 max. Earth dist. superior conj	16351 Sep 22 09:50 16351 Oct 02 16:37 16351 Oct 09 13:29 16351 Oct 11 19:55 16351 Oct 18 05:05 16351 Oct 18 20:42 16351 Oct 18 20:18 16351 Oct 18 20:18 16351 Oct 18 20:18 16351 Oct 18 22:34 16351 Oct 18 22:34 16351 Oct 22 00:56 16351 Oct 25 17:30 16351 Nov 01 08:42 16351 Nov 15 14:27 16351 Nov 29 01:47 16351 Dec 12 18:18 16351 Dec 16 01:45 16351 Dec 18 04:35 16351 Dec 24 05:20	0°ML 14°M256'27 18°M28'18 18°M05'27 13°M10'13 13°M11'09 13°M11'09 13°M16'23 13°M05'54 10°M15'23 7°M25'20 5°M18'23 13°M07'16 0° 23° 23° 23° 23° 22' 17° 33'055 19° 551'27	-0°12'23 0°11'49 0°11'49 0.60267 AU 27°52'54 1.31077 AU 1°32'16
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.	16350 Oct 28 23:14 16350 Oct 31 07:50 16350 Nov 05 17:21 16350 Nov 05 13:17 16350 Nov 07 05:16 16350 Nov 08 22:50 16350 Nov 12 23:52 16350 Nov 19 07:15 16350 Dec 01 13:47 16350 Dec 03 13:38 16350 Dec 23 17:45 16350 Dec 25 21:15 16351 Jan 02 23:52 16351 Jan 07 10:57 16351 Jan 09 19:35 16351 Jan 09 19:09 16351 Jan 09 22:17	5° ₹46'09 4° ₹53'05 1° ₹11'56 1° ₹20'03 30° RM 28° M.38'34 25° M.58'48 24° M.16'20 0° ₹ 1° ₹49'47 0° ₹ 3° ₹55'02 20° ₹13'10 0° ≈ 5° ≈16'46 5° ≈14'22 5° ≈31'55	-1°44'28 1°42'15 0.58022 AU 27°10'37	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 max. Earth dist.	16351 Sep 22 09:50 16351 Oct 02 16:37 16351 Oct 09 13:29 16351 Oct 18 05:05 16351 Oct 18 20:42 16351 Oct 18 20:42 16351 Oct 18 20:18 16351 Oct 18 20:18 16351 Oct 18 20:18 16351 Oct 18 22:34 16351 Oct 18 22:34 16351 Oct 22 00:56 16351 Oct 25 17:30 16351 Nov 10 08:42 16351 Nov 10 08:42 16351 Nov 29 01:47 16351 Dec 12 18:18 16351 Dec 16 01:45 16351 Dec 18 04:35 16351 Dec 24 05:20	0°M. 14°M.56'27 18°M.28'18 18°M.05'27 13°M.46'00 13°M.10'13 13°M.11'09 13°M.16'23 13°M.05'54 10°M.15'23 7°M.25'20 5°M.18'23 13°M.07'16 0° 23° 23° 23° 23° 23° 23° 30'05	-0°12'23 0°11'49 0°11'49 0.60267 AU 27°52'54

evening rise	16351 Dec 31 23:17	4°≈40'51		minimum elong	16352 Dec 08 13:30	4° る 04'44	1°21'09
desc. node	16352 Jan 14 04:04	0° ∺ 03′15		evening rise	16352 Dec 15 09:39	19°る07'40	1 21 0)
dese. Hode	16352 Jan 14 03:17	0° ∀		evening rise	16352 Dec 20 14:48	0°≈	
evening max el	16352 Jan 28 18:57	19° ¥ 12'47	25°51'22	desc. node	16352 Dec 31 00:56	18° ≈ 09'57	
retrograde	16352 Feb 11 17:35	26°) 15'23	20 31 22	evening max el	16353 Jan 09 07:04	29° ≈ 28'57	24°17'28
evening set	16352 Feb 17 17:33	24° H 51'50		evening max er	16353 Jan 09 20:18	0° ₩	24 17 20
min. Earth dist.	16352 Feb 22 07:58		0.57287 AU	retrograde	16353 Jan 22 21:47	6° ¥ 15'13	
inferior conj	16352 Feb 25 06:29	20° X 10'34		evening set	16353 Jan 27 23:32	5° ¥ 19′02	
minimum elong	16352 Feb 25 15:29	19°) 54'55		min. Earth dist.	16353 Feb 02 18:47		0.55569 AU
morning rise	16352 Mar 04 16:27	15° ¥ 51′22	4 01 30	inferior conj	16353 Feb 02 16:47	1°¥08'29	
direct	16352 Mar 06 15:55	15° X 31'22		minimum elong	16353 Feb 05 05:38	0° ¥ 55'36	
asc. node	16352 Mar 09 16:14	16° ¥ 09'06		minimum clong	16353 Feb 06 19:00	30°R≈	3 20 47
morning max el	16352 Mar 15 10:46	19° X 58'03	18°49'40	morning rise	16353 Feb 13 13:42	27°≈09'07	
morning max ci	16352 Mar 22 22:46	19 γ (3803	10 49 40	direct	16353 Feb 15 21:25	26°≈55'03	
morning set	16352 Mar 31 16:36	0 1 16° Υ 06'48		direct	16353 Feb 13 21:23 16353 Feb 23 23:42	20 ≈ 33 03	
morning set	16352 Apr 07 20:03	0° 8		asc. node	16353 Feb 24 13:32	0° ∺ 27'28	
	10332 Apr 07 20.03	0.0		morning max el	16353 Feb 24 13.32 16353 Feb 26 04:29	1° H 54'53	19°53'04
	16252 4 00 00.15	200 57141	0015126	-		0° Υ 38'53	19 33 04
superior conj	16352 Apr 09 09:15	2° 8 56'41	0°15'26	morning set	16353 Mar 15 21:04	0° Υ	
minimum elong	16352 Apr 09 10:15	3° 8 01'22	0°14'57		16353 Mar 15 13:23	Os. A.	
behind sun begin	16352 Apr 09 07:54	2° 8 50'15			1625234 22 17 42	1.600000116	0044120
behind sun end	16352 Apr 09 12:36	3° 8 12'29		superior conj	16353 Mar 23 17:42	16° ℃ 33'16	0°44'29
desc. node	16352 Apr 11 05:11	6° 8 22'19		minimum elong	16353 Mar 23 19:58	16° Y ′44'30	0°43'58
max. Earth dist.	16352 Apr 16 13:16	16° 8 01'48	1.39493 AU	desc. node	16353 Mar 29 01:55	26° Y ′53'25	
evening rise	16352 Apr 20 11:03	22° 8 47'02		max. Earth dist.	16353 Mar 29 19:48	28° Y 17'08	1.37198 AU
	16352 Apr 24 19:27	Π \circ 0			16353 Mar 30 17:58	0° 8	
	16352 May 15 04:35	0ಂತಾ		evening rise	16353 Apr 02 12:36	5° 8 02'29	
evening max el	16352 May 25 10:14	11° © 59'27	24°09'28		16353 Apr 17 18:24	Π °0	
retrograde	16352 Jun 05 16:23	18° © 34'43		evening max el	16353 May 07 23:41	25° Ⅱ 54'17	25°26'31
asc. node	16352 Jun 05 14:09	18° © 34'41			16353 May 12 17:34	0 \circ \odot	
evening set	16352 Jun 11 03:51	16° © 14'55		retrograde	16353 May 20 06:01	3° ഇ 00'30	
min. Earth dist.	16352 Jun 15 18:24	10° © 54'46	0.68811 AU	asc. node	16353 May 23 11:12	2° © 18'13	
inferior conj	16352 Jun 16 14:33	9° 5 46'33	2°44'45	evening set	16353 May 26 04:41	0° ട്ട 31'30	
minimum elong	16352 Jun 16 12:49	9° 9 52'26	2°43'46		16353 May 26 18:49	30° Ŗ Ⅱ	
morning rise	16352 Jun 21 21:49	3°544'24		min. Earth dist.	16353 May 30 11:35	25° Ⅱ 48'23	0.67976 AU
direct	16352 Jun 25 21:44	2° © 13'31		inferior conj	16353 May 31 20:52	24° Ⅱ 00′53	2°16'59
morning max el	16352 Jul 03 14:09	6° ॐ 32′09	20°05'33	minimum elong	16353 May 31 18:43	24° Ⅲ 07'51	2°15'47
desc. node	16352 Jul 08 04:58	11° © 45'50		morning rise	16353 Jun 06 09:12	18° Ⅲ 09'00	
	16352 Jul 21 05:13	$0^{\circ}\Omega$		direct	16353 Jun 09 21:57	16° Ⅱ 57'30	
morning set	16352 Jul 31 04:18	15° Ω 03'51		morning max el	16353 Jun 16 19:26	20° Ⅱ 42′06	19°05'45
	16352 Aug 09 18:09	0° m)			16353 Jun 24 09:21	0 \circ \odot	
max. Earth dist.	16352 Aug 10 06:57	0° m 50'49	1.44531 AU	desc. node	16353 Jun 25 02:05	0°\$58'50	
				greatest brilliancy	16353 Jun 29 18:09	7°5548'11	-0.7m
superior conj	16352 Aug 15 21:14	9° m 50'35	-1°54'10	morning set	16353 Jul 10 11:09	24°908'50	
minimum elong	16352 Aug 16 05:01	10° m/22'17	1°53'50	•	16353 Jul 14 06:06	$0^{\circ}\Omega$	
-	16352 Aug 27 22:40	0∘ ⊽		max. Earth dist.	16353 Jul 24 00:38	15° Ω 11'34	1.45647 AU
evening rise	16352 Aug 29 00:41	1° ≏ 51'17					
asc. node	16352 Sep 01 14:34	7° ≏ 58'38		superior conj	16353 Jul 26 17:31	19° Ω 26′08	-2°12'17
evening max el	16352 Sep 15 07:09	28° ₽ 15'08	18°02'40	minimum elong	16353 Jul 26 21:05	19° Ω 40'10	
S	16352 Sep 17 08:12	0° M .		Č	16353 Aug 02 09:23	0° m)	
retrograde	16352 Sep 21 17:26	1°M36'21		evening rise	16353 Aug 10 14:07	13° m) 14'32	
evening set	16352 Sep 24 08:01	1°ML01'55		asc. node	16353 Aug 19 11:17	27° m) 37'05	
3	16352 Sep 26 03:34	30° ₽ Ω			16353 Aug 20 23:49	0∘ <u>⊽</u>	
inferior conj	16352 Sep 30 17:35	25° ♀ 47'57	1°01'11	evening max el	16353 Aug 29 21:41	11° ≏ 52'38	18°18'53
minimum elong	16352 Sep 30 19:13	25° Ω 43'38	1°00'50	retrograde	16353 Sep 05 06:57	15° Ω 16'29	10 1000
min. Earth dist.	16352 Oct 03 12:58	22° £ 51'51	0.62550 AU	evening set	16353 Sep 08 06:21	14° £ 27'40	
desc. node	16352 Oct 04 02:23	22° ₽ 18'35	0.02000110	inferior conj	16353 Sep	8° Ω 57'35	1°55'42
morning rise	16352 Oct 07 04:02	19° ♀ 40'10		minimum elong	16353 Sep 14 06:19	8° ≏ 50'51	1°55'04
direct	16352 Oct 07 04:02 16352 Oct 13 20:26	17° ⊆ 4010		min. Earth dist.	16353 Sep 14 00:19	6° 2 17'50	0.64658 AU
morning max el	16352 Oct 13 20.20 16352 Oct 27 21:35	25° £ 12'26	27°55'52	morning rise	16353 Sep 10 10.57 16353 Sep 20 04:43	2° £ 36'19	0.0-030 AU
morning max ci	16352 Nov 01 07:27	0°M₁	21 33 32	desc. node	16353 Sep 20 04.43	2° ⊆ 3019 2° ⊆ 00'36	
	16352 Nov 01 07.27 16352 Nov 21 13:29	0 IIL 0° ∡ 1		direct	16353 Sep 20 25.41 16353 Sep 26 17:10	2 ≗ 00 30	
asc. node	16352 Nov 21 13:29 16352 Nov 28 15:18	13° ∡' 13'29		morning max el	16353 Sep 26 17:10 16353 Oct 10 08:18	0° 2 201°11 7° 2 56'57	27022114
morning set	16352 Nov 28 13.18 16352 Dec 01 02:50	18° x 13 29		morning max ci	16353 Oct 10 08.18 16353 Oct 27 11:25	0°M	21 2J 1 4
max. Earth dist.	16352 Dec 01 02:50 16352 Dec 06 08:23	29° х 12'17	1.31702 AU		16353 Oct 27 11:25 16353 Nov 13 20:42	0°111. 0° √ 1	
man, datui uist.	16352 Dec 06 08:23 16352 Dec 06 16:46	29° メ ・14*28	1.51/02 AU	morning sat		0° x ' 1° x '34'21	
	10332 Dec 00 10:40	0 0		morning set	16353 Nov 14 16:01		
aunariar aari	16252 Dag 00 15:27	40 Z 17122	1920144	asc. node	16353 Nov 15 12:14	3°×14'10	1 22004 411
superior conj	16352 Dec 08 15:37	4° る 16'22	1 20 44	max. Earth dist.	16353 Nov 19 03:44	10° ∡ ³38'32	1.32894 AU

superior conj	16353 Nov 22 20:19		1°03'00	minimum elong	16354 Nov 06 16:24	2°×705'23	0°39'16
minimum elong	16353 Nov 22 17:56	18° ∡ 13′26	1°03'15	evening rise	16354 Nov 14 05:23	17° ∡ 54′20	
	16353 Nov 28 04:37	0°る			16354 Nov 20 05:12	0°る	20050102
evening rise	16353 Nov 29 20:18	3° る 33'31		evening max el	16354 Dec 03 09:39	19°る35'12	20°58'02
	16353 Dec 14 01:17	0° ≈		desc. node	16354 Dec 04 18:50	20°る52'29	
desc. node	16353 Dec 17 21:51	5°≈13'20	22022147	retrograde	16354 Dec 14 23:25	25° ろ 19'08	
evening max el	16353 Dec 21 16:36	9°≈23'10	22°33'47	evening set	16354 Dec 17 14:41	25° る 02'36	5040111
retrograde	16354 Jan 03 13:40	15°≈45'20		inferior conj	16354 Dec 26 08:54	21° ろ 11'33	
evening set	16354 Jan 07 09:20	15°≈13'24	0.54546.411	minimum elong	16354 Dec 26 01:27	21° る 22'09	5°38'23
min. Earth dist.	16354 Jan 15 00:58 16354 Jan 15 18:15	11°≈44'33	0.54546 AU	min. Earth dist.	16354 Dec 27 06:22	20°る40'58 17°る18'35	0.54433 AU
inferior conj		11°≈20'14		morning rise direct	16355 Jan 03 12:17	17 3 1833	
minimum elong	16354 Jan 15 19:39	11°≈18'16 7°≈32'16	6°00'57	morning max el	16355 Jan 07 17:24 16355 Jan 20 20:55	10 34019 23° る 05'39	23°04'21
morning rise direct	16354 Jan 24 07:04 16354 Jan 27 10:00	7°≈10'08		morning max er	16355 Jan 26 21:41	23 3 03 39 0° ≈	23 04 21
morning max el	16354 Feb 08 07:18	7 ≈10 08 12°≈54'47	21°19'34	asc. node	16355 Jan 29 08:06	0 ≈ 3°≈25'15	
asc. node	16354 Feb	12 ≈3447 16°≈19'02	21 1934	morning set	16355 Feb 12 17:39	0° ¥ 03'56	
asc. node	16354 Feb 20 11:32	10 ≈1902 0° H		morning set	16355 Feb 12 17:55	0° X	
marning got	16354 Feb 28 06:09	15° ¥ 20′02			10333 Feb 12 10.33	0 /	
morning set	16354 Feb 28 06.09 16354 Mar 07 05:41	13 χ 20 02 0° Υ		gunariar agni	16355 Feb 19 15:44	15° ₩ 00'22	1°23'48
	10534 Mai 07 03.41	0 1		superior conj	16355 Feb 19 17:48	15° H 11'28	1°23'49
superior conj	16354 Mar 07 12:54	0° Ƴ 37'25	1°07'20	minimum elong max. Earth dist.	16355 Feb 19 17.48 16355 Feb 22 22:33	21° H 58'17	1.33324 AU
	16354 Mar 07 15:25	0° Υ 50'26	1°07'02	max. Earth dist.		21 Λ 38 17	1.55524 AU
minimum elong max. Earth dist.		10° Y 09'18	1.35082 AU	avanina riaa	16355 Feb 26 20:57 16355 Feb 27 14:24	1° Υ 26'25	
desc. node	16354 Mar 12 05:39 16354 Mar 15 22:35	10 γ 09 18 17° Υ 19'31	1.55082 AU	evening rise desc. node	16355 Mar 02 19:17	7° Υ 36'49	
	16354 Mar 16 06:51	17 γ 1931 17° γ 58'28		desc. node	16355 Mar 15 22:16	7 1 30 49 0° と	
evening rise		0° 8		avanina may al		23° 8 14'41	27°17'25
	16354 Mar 22 23:08	0°II		evening max el	16355 Apr 03 02:45	0° Ⅱ	2/ 1/23
avaning may al	16354 Apr 11 23:44	0 П 9°П41'59	26°31'42	ratragrada	16355 Apr 12 16:40	0° П 47'38	
evening max el retrograde	16354 Apr 20 13:15 16354 May 03 14:35	9 П 41 39 17° П 07'38	20 31 42	retrograde	16355 Apr 16 17:06 16355 Apr 20 11:51	0 Д4/38 30°R 8	
•	•	17 H 0738 14° H 34'48		avanina sat	•	28° 8 17'37	
evening set asc. node	16354 May 09 22:59	14 II 34 48		evening set min. Earth dist.	16355 Apr 23 08:44	24° 8 41'57	0.64984 AU
min. Earth dist.	16354 May 10 08:20 16354 May 13 23:47	14 H 13 13 13 10° H 26'57	0.66683 AU	asc. node	16355 Apr 27 05:10 16355 Apr 27 05:31	24° 8 41'00	0.04984 AU
inferior conj	•	10 П 2037 8° П 07'00	1°37'26	inferior conj	16355 Apr 29 16:04	21° 8 59'26	0°44'56
	16354 May 15 22:11	8° П 13'13	1°36'12		16355 Apr 29 14:53	21° 8 02'45	0°44'00
minimum elong	16354 May 15 20:08 16354 May 21 18:22	8 Д13 13 2°Д26'41	1 30 12	minimum elong	16355 Apr 29 14.55 16355 May 05 22:55	16° 8 32'24	0 44 00
morning rise direct	16354 May 24 20:44	2 ∏ 2641 1° ∏ 32'58		morning rise direct	16355 May 03 22.55 16355 May 08 15:54	15° 8 53'48	
morning max el	16354 May 31 07:06	1 П 32 38 4° П 56'34	18°22'05	morning max el	16355 May 14 23:07	19° 8 08'53	17°55'20
desc. node	16354 Jun 11 23:07	20° I I39'55	16 22 03	morning max er	16355 May 23 04:54	0°Ⅱ	17 33 20
desc. node				dasa nada	16355 May 29 20:06		
morning set	16354 Jun 17 21:47 16354 Jun 20 12:23	0°ഇ 4°ഇ08'00		desc. node morning set	16355 Jun 01 16:41	10° Ⅱ 41'37 15° Ⅱ 24'41	
morning set	10534 Juli 20 12.25	4 200000		morning set	16355 Jun 10 14:46	0°95	
superior aoni	16354 Jul 06 02:53	200620110	2011/17		10555 Juli 10 14.40	0 39	
superior conj minimum elong	16354 Jul 06 02.33	28° © 39'10 28° © 22'50		superior conj	16355 Jun 15 18:06	8°513'16	1051100
minimum elong	16354 Jul 06 23:38	28 3 22 30 0° Ω	2 11 40	minimum elong	16355 Jun 15 18.06	7°939'39	
max. Earth dist.	16354 Jul 06 20:34	29° 5 48'04	1.46026 AU	max. Earth dist.	16355 Jun 19 16:31	14°925'32	1.45656 AU
	16354 Jul 22 02:17	29 3 48 04 23° Ω 34'16	1.40020 AU	max. Earth dist.	16355 Jun 29 17:35	14 9 23 32	1.43030 AU
evening rise	16354 Jul 26 04:55	0° M)		evening rise	16355 Jul	3° Ω 06'55	
greatest brilliancy	16354 Jul 31 15:26	8° Mp 26'13	-0.8m	greatest brilliancy	16355 Jul 15 21:45	$24^{\circ}\Omega 23'55$	0.6m
		-	-0.0111	greatest offinality			-0.0111
asc. node evening max el	16354 Aug 06 08:01 16354 Aug 13 09:22	16° Mp 54'21 25° Mp 41'19	18°52'31	asc. node	16355 Jul 19 20:15 16355 Jul 24 04:47	0° Mp 5° Mp 42'38	
_	•		16 32 31				10042127
retrograde evening set	16354 Aug 20 02:15 16354 Aug 23 11:08	29° Mp 20'41 28° Mp 15'20		evening max el retrograde	16355 Jul 27 16:05 16355 Aug 04 00:31	9° Mp 35'12 13° Mp 42'13	19°42'27
inferior conj	•	28 m/13 20 22° m/31'21	2°33'16	evening set	16355 Aug 04 00:31 16355 Aug 07 19:32	13 m/42 13 12° m/19'06	
	16354 Aug 29 00:21	-	2°32'41	inferior conj	•	-	2°56'25
minimum elong	16354 Aug 29 02:26	22° Mp 24'45		•	16355 Aug 13 03:32	6° My 22'36	
min. Earth dist.	16354 Aug 30 17:33	20° m/21'18	0.66441 AU	minimum elong	16355 Aug 13 04:55	6° M) 18'00	0.67812 AU
morning rise desc. node	16354 Sep 03 16:49 16354 Sep 07 21:00	16° Mp 04'35 13° Mp 43'44		min. Earth dist. morning rise	16355 Aug 14 06:48 16355 Aug 18 13:46	4° M 51'28 29° Ω 56'17	0.07012 AU
	•	-		morning rise	•		
direct	16354 Sep 09 21:32	13° Mp 27'51 21° Mp 08'10	26°22'43	direct	16355 Aug 18 12:06	30°R \ 27° \ 25'49	
morning max el	16354 Sep 22 19:54	21°III08'10 0° ჲ	20 22 43	desc. node	16355 Aug 24 08:19	$27^{\circ} \Omega 25^{\circ} 49$ $27^{\circ} \Omega 33^{\circ} 48$	
	16354 Sep 30 12:50			desc. node	16355 Aug 25 18:20		
	16354 Oct 20 15:31	0°M			16355 Aug 31 00:31	0° ™) 4° ™ 24!41	25902120
morning set	16354 Oct 28 17:03	14°M23'00	1 24626 411	morning max el	16355 Sep 05 06:56	4° Mp 34'41	25°03'39
max. Earth dist.	16354 Nov 01 13:15	21°M45'01	1.34626 AU		16355 Sep 24 21:00	0° <u>დ</u>	
asc. node	16354 Nov 02 09:06	23°M22'46		morning set	16355 Oct 11 02:03	26° £ 28'57	
	16354 Nov 05 16:00	0° ∡ ¹		F d v .	16355 Oct 13 01:03	0°M	1 26002 444
	1625431 06 10 21	20 71 5120	0920104	max. Earth dist.	16355 Oct 14 14:27	2°M51'11	1.36802 AU
superior conj	16354 Nov 06 18:21	2° ∡ 15′29	U-39 U4	asc. node	16355 Oct 20 05:54	13°M34'48	

superior conj	16355 Oct 21 06:42	15°M36'32	0°09'18	max. Earth dist.	16356 Sep 25 13:21	14° ≙ 27'49	1.39208 AU
minimum elong	16355 Oct 21 06:06	15°M33'33	0°09'38				
behind sun begin	16355 Oct 21 00:52	15°ML07'43		superior conj	16356 Oct 03 05:42	28° ≏ 20′50	-0°25'16
behind sun end	16355 Oct 21 11:21	15° ™ 59'26		minimum elong	16356 Oct 03 07:32	28° ≏ 29'26	0°24'40
	16355 Oct 28 10:10	0° ∡ ¹			16356 Oct 04 02:51	0° M	
evening rise	16355 Oct 29 10:41	2° ∡ 04'25		asc. node	16356 Oct 06 02:40	3° ™ 46'49	
	16355 Nov 15 04:21	ರ∘ರ		evening rise	16356 Oct 12 09:33	15°M57'30	
evening max el	16355 Nov 15 16:40	0° る 31'35	19°41'10		16356 Oct 19 21:04	0° ∡	
desc. node	16355 Nov 21 15:54	4° る 42'44		evening max el	16356 Oct 28 13:30	12° ≯ 18'33	18°46'41
retrograde	16355 Nov 25 15:03	5° る 29'19		retrograde	16356 Nov 05 23:52	16° ∡ ³34'17	
evening set	16355 Nov 27 15:14	5° ප 18'06		evening set	16356 Nov 07 21:40	16° ∡ ¹21'59	
inferior conj	16355 Dec 06 07:43	1° る 15'42		desc. node	16356 Nov 07 13:02	16° ∡ ¹26′08	
minimum elong	16355 Dec 05 21:49	1°る31'14	4°21'00	inferior conj	16356 Nov 16 01:26	11° ⋌ ¹59'43 –	
	16355 Dec 08 07:58	30°Ŗ ⋌ ¹		minimum elong	16356 Nov 15 18:48	12° ∡ 11'47 −	
min. Earth dist.	16355 Dec 08 13:45	29° ⋌ '51'04	0.55265 AU	min. Earth dist.	16356 Nov 19 02:18	9° ∡ ¹47'47	0.56868 AU
morning rise	16355 Dec 14 02:48	26° ₹ 59'24		morning rise	16356 Nov 23 12:56	7° ∡ 108'01	
direct	16355 Dec 19 08:29	25° ∡ ¹58'32		direct	16356 Nov 29 12:50	5° ∡ '41'15	
	16355 Dec 29 18:50	0°る	24054102	morning max el	16356 Dec 13 17:13	13° ∡ *01'43	26°29'16
morning max el	16356 Jan 02 05:03	2°る54'56	24°54'03	,	16356 Dec 27 01:00	0°る	
asc. node	16356 Jan 16 05:20	21° る 27'55		asc. node	16357 Jan 02 02:32	10°る13'14	
	16356 Jan 21 00:00	0° ≈		morning set	16357 Jan 11 16:11	29° る 16'47	
morning set	16356 Jan 28 05:35	14° ≈ 44'18			16357 Jan 12 00:12	0° ≈	
superior conj	16356 Feb 03 23:30	29° ≈ 33'41	1°34'01	superior conj	16357 Jan 18 10:05	14° ≈ 11'46	1°38'06
minimum elong	16356 Feb 04 00:43	29° ≈ 40′23	1°34'20	minimum elong	16357 Jan 18 10:16	14° ≈ 12'47	1°38'38
	16356 Feb 04 04:17	0°)		max. Earth dist.	16357 Jan 19 04:49	15° ≈ 56′21	1.31233 AU
max. Earth dist.	16356 Feb 05 22:59	3° ¥ 53'48	1.32025 AU	evening rise	16357 Jan 25 09:04	29° ≈ 24'53	
evening rise	16356 Feb 11 08:02	15° ∺ 17'17			16357 Jan 25 15:44	0° ∀	
desc. node	16356 Feb 17 16:00	27° ∺ 39'36		desc. node	16357 Feb 03 12:45	17° ¥ 22′03	
	16356 Feb 18 22:36	0° Υ			16357 Feb 11 02:13	0° Υ	
	16356 Mar 09 18:23	0°8		evening max el	16357 Feb 25 22:15	18° Y ′44'20	27°22'58
evening max el	16356 Mar 15 14:36	6° 8 19'53	27°36'31	retrograde	16357 Mar 11 22:44	26° Y ′06′27	
retrograde	16356 Mar 29 12:15	13° 8 50'22		evening set	16357 Mar 18 16:21	24° Y ′03'41	
evening set	16356 Apr 05 07:29	11° 8 30'29		min. Earth dist.	16357 Mar 22 12:17	21°Υ16'11	0.60721 AU
min. Earth dist.	16356 Apr 09 01:49	8° 8 22'26	0.62953 AU	inferior conj	16357 Mar 25 16:56	18° Y 29'55	
inferior conj	16356 Apr 11 23:30	5° 8 30'16		minimum elong	16357 Mar 25 20:41	18° Y 21'44	1°40'42
minimum elong	16356 Apr 12 00:12	5° 8 28'30	0°21'42	asc. node	16357 Mar 31 00:03	14° Υ 32'11	
asc. node	16356 Apr 13 02:45	4° 8 23'35		morning rise	16357 Apr 02 04:26	13° Y 37'27	
morning rise	16356 Apr 18 19:42	0° 8 18'58		direct	16357 Apr 04 06:51	13°Υ19'12	17055112
1:4	16356 Apr 19 22:08	30° ₹Υ 29° Υ 52'17		morning max el	16357 Apr 11 08:48	16° Y 51'54	1/°55'13
direct	16356 Apr 21 04:33 16356 Apr 22 10:48				16357 Apr 20 16:01	0°8	
	1	0°8	17946110	morning set	16357 Apr 26 23:21	11° 8 14'50 21° 8 23'32	
morning max el morning set	16356 Apr 27 16:46 16356 May 13 22:17	3° 8 10'28 27° 8 52'59	17°46'10	desc. node	16357 May 02 13:53 16357 May 07 11:02	0°Ⅱ	
morning set	16356 May 15 03:38	27 O 3239			10557 May 07 11.02	υш	
desc. node	16356 May 15 03.38	0° П 57'54		superior conj	16357 May 07 14:21	0° Ⅱ 14'22	0940121
desc. node	10330 Way 13 17.02	0 Д3/34		minimum elong	16357 May 07 10:48	29° 8 58'59	
superior conj	16356 May 26 04:29	18° ∏ 41'44	-1°18'15	max. Earth dist.	16357 May 15 01:08	12° I I48'31	1.42895 AU
minimum elong	16356 May 25 21:19	18° Ⅱ 12'11	1°17'58	evening rise	16357 May 21 02:32	22° I I33'32	1.12075710
max. Earth dist.	16356 Jun 01 10:44	28° Д 50'48	1.44576 AU		16357 May 25 21:25	0°95	
	16356 Jun 02 04:06	0ಂಣ			16357 Jun 16 00:14	0°N	
evening rise	16356 Jun 10 05:05	12° © 33'37		evening max el	16357 Jun 22 11:51	7° Ω 25'06	22°01'37
<i>8</i>	16356 Jun 21 19:47	$0^{\circ}\Omega$		asc. node	16357 Jun 26 22:29	11° Ω 09'13	
evening max el	16356 Jul 09 16:49	23° Ω 30'31	20°46'35	retrograde	16357 Jul 01 21:41	12° Ω 54'32	
asc. node	16356 Jul 10 01:36	23° Ω 52'06		evening set	16357 Jul 06 14:53	10° Ω 56′23	
retrograde	16356 Jul 17 23:33	28° Ω 15'34		inferior conj	16357 Jul 11 20:43	4° Ω 38'37	3°06'42
evening set	16356 Jul 22 05:25	26° Ω 34'26		minimum elong	16357 Jul 11 20:14	4° Ω 40′20	3°06'05
inferior conj	16356 Jul 27 11:03	20° Ω 26'38	3°07'07	min. Earth dist.	16357 Jul 11 21:02	4° Ω 37'30	0.69142 AU
minimum elong	16356 Jul 27 11:30	20° Ω 25′02	3°06'36		16357 Jul 15 10:22	30°Rூ	
min. Earth dist.	16356 Jul 28 00:40	19° Ω 39'33	0.68721 AU	morning rise	16357 Jul 17 01:25	28° © 23'09	
morning rise	16356 Aug 01 17:19	14° Ω 04'33		direct	16357 Jul 21 20:02	26°\$22'08	
direct	16356 Aug 07 00:10	11° Ω 46'41			16357 Jul 29 06:04	$0^{\circ}\Omega$	
desc. node	16356 Aug 11 15:39	13° Ω 12′27		desc. node	16357 Jul 29 12:57	0° Ω 15′05	
morning max el	16356 Aug 17 18:00	18° Ω 10'49	23°35'41	morning max el	16357 Jul 31 07:17	1° Q 55'18	22°07'34
	16356 Aug 27 16:05	0° m)			16357 Aug 21 13:24	0° m	
	16356 Sep 16 22:38	0∘ 亚		morning set	16357 Sep 02 04:21	17° m 57'42	
morning set	16356 Sep 21 14:54	7° ≏ 43'04		max. Earth dist.	16357 Sep 07 15:44	26° m 54'33	1.41562 AU

	16357 Sep 09 11:56	0∘ ⊽			16358 Aug 14 13:27	0° m	
	16257.9 15 10 52	100 0 17124	1002116	max. Earth dist.	16358 Aug 20 24:00	10° m) 12'37	1.43594 AU
superior conj minimum elong	16357 Sep 15 10:53 16357 Sep 15 15:58	10° £ 17'24 10° £ 39'51	1°02'16 1°01'26	superior conj	16358 Aug 27 18:11	21° m) 17'55	1027121
asc. node	16357 Sep 13 13:38 16357 Sep 22 23:23	23° £ 54'35	1 01 20	minimum elong	16358 Aug 28 01:52	21° m/ 50'06	
evening rise	16357 Sep 25 22:27	29° £ 24'00		minimum clong	16358 Sep 01 21:15	ე∘ ი	1 30 41
evening rise	16357 Sep 26 06:12	0°M		evening rise	16358 Sep 08 21:00	ა — 12° ჲ 12'44	
evening max el	16357 Oct 11 20:29	24°M48'58	18°14'00	asc. node	16358 Sep 09 20:04	13° £ 54'31	
retrograde	16357 Oct 19 04:10	28°M33'28			16358 Sep 19 07:45	0° M	
evening set	16357 Oct 21 06:26	28°M15'41		evening max el	16358 Sep 25 09:22	7°M53'07	18°01'23
desc. node	16357 Oct 25 10:15	26° ML $08'23$		retrograde	16358 Oct 02 00:43	11° M 19'05	
inferior conj	16357 Oct 28 17:02	23°M31'58	-1°03'22	evening set	16358 Oct 04 10:22	10°M51'51	
minimum elong	16357 Oct 28 14:42	23°M36'55	1°01'55	inferior conj	16358 Oct 11 04:20	5° M 48′27	0°21'12
min. Earth dist.	16357 Oct 31 23:01	20°M47'09	0.58957 AU	minimum elong	16358 Oct 11 05:00	5° M 46′50	0°21'17
morning rise	16357 Nov 04 19:33	18° ™ 04'11		desc. node	16358 Oct 12 07:31	4° ጤ 41'31	
direct	16357 Nov 11 06:51	16°M11'05		min. Earth dist.	16358 Oct 14 05:31	2°M50'24	0.61247 AU
morning max el	16357 Nov 25 13:44	23° M .51'41	27°33'31	morning rise	16358 Oct 17 20:41	29° ≙ 52'15	
	16357 Dec 01 03:29	0° ₹			16358 Oct 17 16:09	30° ₹ Ω	
asc. node	16357 Dec 19 23:40	29° ₹ 29'50		direct	16358 Oct 24 13:01	27° △ 36'33	
marning sat	16357 Dec 20 06:00	0°る 13°る36'56		mamina may al	16358 Oct 31 22:20 16358 Nov 07 17:44	0°ጤ 5°ጤ30'59	27050150
morning set	16357 Dec 26 23:37	13 03030		morning max el	16358 Nov 26 03:40	3 1163039 0° √ 1	27 38 30
superior conj	16358 Jan 02 21:32	28° る 49'22	1°36'09	asc. node	16358 Dec 06 20:41	19° ∡ ¹08'43	
minimum elong	16358 Jan 02 20:40	28°る44'33	1°36'44	morning set	16358 Dec 10 20:41	27° х 39'02	
max. Earth dist.	16358 Jan 02 12:35	27°る59'12	1.30971 AU	morning set	16358 Dec 12 04:46	0°る	
	16358 Jan 03 10:08	0° ≈	-1007,7-1-10	max. Earth dist.	16358 Dec 16 18:16	9° る 52'08	1.31267 AU
evening rise	16358 Jan 09 15:16	13° ≈ 44'01					
<i>5</i>	16358 Jan 17 16:57	0°) €		superior conj	16358 Dec 18 07:55	13° ට 20'41	1°28'08
desc. node	16358 Jan 21 09:31	6° ¥ 36'32		minimum elong	16358 Dec 18 06:11	13° る 11'00	1°28'38
	16358 Feb 07 15:23	0 ° Υ		evening rise	16358 Dec 25 00:37	28° පි 09'15	
evening max el	16358 Feb 07 22:56	0° Y 18′06	26°34'13		16358 Dec 25 21:10	0° ≈ ≈	
retrograde	16358 Feb 21 23:11	7° Y 29'10		desc. node	16359 Jan 08 06:19	25° ≈ 11'57	
evening set	16358 Feb 28 08:08	5° Ƴ 49'43			16359 Jan 11 10:48	0° ∀	
min. Earth dist.	16358 Mar 04 12:29	3° Y 11′52	0.58476 AU	evening max el	16359 Jan 20 15:10	10° ¥ 59'07	25°13'47
inferior conj	16358 Mar 07 16:37	0° Υ 48'37		retrograde	16359 Feb 03 11:41	17°) € 56'17	
minimum elong	16358 Mar 08 00:01	0° Υ 34'39	3°09'34	evening set	16359 Feb 09 03:10	16°) (44′24	0.56450.433
	16358 Mar 08 18:37	30° ₹ ₩		min. Earth dist.	16359 Feb 14 03:43	14°) €01'07	0.56479 AU
morning rise	16358 Mar 15 19:24 16358 Mar 17 18:19	26° 升 17'29 26° 升 04'12		inferior conj minimum elong	16359 Feb 16 19:29 16359 Feb 17 04:57	12° ★ 16'53 12° ★ 01'23	
direct asc. node	16358 Mar 17 21:23	26°\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\		morning rise	16359 Feb 25 09:27	8°\(\)6'55	4 36 03
asc. nouc	16358 Mar 25 18:22	20 γ (04 13		direct	16359 Feb 27 10:55	7° ¥ 54'39	
morning max el	16358 Mar 25 19:33	0° Υ '02'54	18°23'47	asc. node	16359 Mar 04 18:43	9° ∺ 22'14	
morning set	16358 Apr 10 14:21	25°Υ13'54	10 23 .7	morning max el	16359 Mar 08 20:44	12°) € 30′22	19°13'50
Č	16358 Apr 13 02:21	0°8		Ü	16359 Mar 20 15:58	0° Υ	
desc. node	16358 Apr 19 10:41	11° 8 54'32		morning set	16359 Mar 25 14:51	9° Y 36'27	
superior conj	16358 Apr 19 21:42	12° 8 45'04	-0°03'52	superior conj	16359 Apr 02 22:11	26° Y ′00'41	0°28'29
minimum elong	16358 Apr 19 21:24	12° 8 43'38	0°04'13	minimum elong	16359 Apr 02 23:52	26° Y ′08'47	0°27'57
behind sun begin	16358 Apr 19 14:21	12° 8 11'21			16359 Apr 05 00:16	0° 8	
behind sun end	16358 Apr 20 04:26	13° 8 15'51		desc. node	16359 Apr 06 07:24	2° 8 26'29	
max. Earth dist.	16358 Apr 27 10:29	26° 8 05'23	1.40793 AU	max. Earth dist.	16359 Apr 09 16:23		1.38502 AU
	16358 Apr 29 17:52	0°П		evening rise	16359 Apr 13 10:04	15° 8 14'36	
evening rise	16358 May 01 19:43	3° Ⅱ 27'03 0° ©			16359 Apr 22 08:14	0° ©	
evening max el	16358 May 19 03:24 16358 Jun 05 02:56	0°95 21°9519'47	23°22'35	evening max el	16359 May 13 20:17 16359 May 18 16:27	୦°୭ 5°9514'57	24042116
asc. node	16358 Jun 13 19:27	27°5917'44	23 22 33	retrograde	16359 May 30 09:48	12°905'31	24 43 10
retrograde	16358 Jun 15 17:31	27°533'29		asc. node	16359 May 31 16:29	11°958'40	
evening set	16358 Jun 20 22:18	25°\$20'35		evening set	16359 Jun 05 02:00	9° 5 641'19	
min. Earth dist.	16358 Jun 25 17:53	19° © 38'54	0.69070 AU	min. Earth dist.	16359 Jun 09 13:05	4°936'50	0.68507 AU
inferior conj	16358 Jun 26 06:37	18° © 55'01	2°55'48	inferior conj	16359 Jun 10 14:47	3°5511'12	
minimum elong	16358 Jun 26 05:16	18° © 59'39	2°54'58	minimum elong	16359 Jun 10 12:50	3° © 17'45	2°33'16
morning rise	16358 Jul 01 12:12	12° © 47'35			16359 Jun 13 02:48	30°RⅡ	
direct	16358 Jul 05 18:42	11° © 05'38		morning rise	16359 Jun 15 23:52	27° Ⅱ 13′05	
morning max el	16358 Jul 14 01:29	15° © 49'35	20°46'39	direct	16359 Jun 19 18:51	25° Ⅱ 50'38	
desc. node	16358 Jul 16 10:11	18° © 20'45		morning max el	16359 Jun 27 02:28		19°38'11
	16358 Jul 25 10:48	0°N			16359 Jun 27 05:01	0.22	
morning set	16358 Aug 12 19:45	27° Ω 17'43		desc. node	16359 Jul 03 07:20	7° © 12'40	

morning rise

direct

16360 Jun 21 10:22

16360 Jun 23 11:37

greatest brilliancy

0ಂತ

3°907'19

-0.8m

25°849'10

25°**8**02'04

16361 May 14 18:07

16361 May 17 16:30

	1/2/11/1 24 00 21	2001 12011 5	10000120		1/2/2 1/2 1/2 22 22	00.77	
morning max el	16361 May 24 00:21	28° 8 20'15	18°08'39		16362 May 19 23:32	0°П	
	16361 May 25 14:20	0°Ⅱ 16°Ⅱ29'32		desc. node	16362 May 23 22:25	6°Ⅱ38'00	
desc. node	16361 Jun 06 01:28			morning set	16362 May 24 17:00	7° Ⅱ 56'16	
morning set	16361 Jun 12 01:23	26° Ⅱ 07'30 0° ©			1/2/2 I 0/ 22.50	200T52145	1920117
	16361 Jun 14 11:12	0 29		superior conj minimum elong	16362 Jun 06 23:59 16362 Jun 06 15:33	29° Ⅱ 53'45 29° Ⅱ 19'47	
superior conj	16361 Jun 27 01:43	19° © 59'11	2004'40	minimum eiong	16362 Jun 07 01:32	29 п 1947 0° ©	1 38 03
minimum elong	16361 Jun 26 18:57	19° © 32'43	2°05'06	max. Earth dist.	16362 Jun 12 01:48		1.45274 AU
max. Earth dist.	16361 Jun 29 06:07	23°S23'58	1.45960 AU	evening rise	16362 Jun 22 16:37	24° © 27'12	1.43274 AO
max. Dartii dist.	16361 Jul 03 11:52	0°Ω	1.15700710	evening rise	16362 Jun 26 08:06	0°Ω	
evening rise	16361 Jul 13 04:59	15° Ω 02'57			16362 Jul 17 12:51	0° m)	
e vening rise	16361 Jul 22 22:33	0° m)		asc. node	16362 Jul 18 07:03	0° mp 52'05	
greatest brilliancy	16361 Jul 24 21:19	2° m/56'08	-0.7m	evening max el	16362 Jul 20 04:03	2° mp 51'28	20°08'06
asc. node	16361 Jul 31 10:14	12° m) 19'02		retrograde	16362 Jul 27 21:18	7° mp 13'58	
evening max el	16361 Aug 05 23:56	18° m) 57'19	19°11'50	evening set	16362 Jul 31 20:50	5° m 43'07	
retrograde	16361 Aug 12 22:21	22° m/46'53		Č	16362 Aug 05 21:59	30°R Ω	
evening set	16361 Aug 16 11:32	21° m/33'51		inferior conj	16362 Aug 06 03:28	29° Ω 41′23	3°02'22
inferior conj	16361 Aug 21 22:08	15° m 44'11	2°44'43	minimum elong	16362 Aug 06 04:28	29° Ω 37'58	3°01'53
minimum elong	16361 Aug 21 23:58	15° mp 38'15	2°44'09	min. Earth dist.	16362 Aug 07 00:49	28° Ω 28'43	0.68251 AU
min. Earth dist.	16361 Aug 23 09:17	13° m 50'11	0.67078 AU	morning rise	16362 Aug 11 11:43	23° Ω 16′20	
morning rise	16361 Aug 27 11:43	9° m 17'12		direct	16362 Aug 17 01:15	20° Ω 50'49	
desc. node	16361 Sep 01 23:28	6° Mp 43′41		desc. node	16362 Aug 19 20:48	21° Q 22'22	
direct	16361 Sep 02 12:17	6° Mp 42′33		morning max el	16362 Aug 28 12:24	27° N 42'29	24°26'51
morning max el	16361 Sep 15 01:16	14° m 10'44	25°50'53		16362 Aug 30 16:22	0° m	
	16361 Sep 27 23:31	0∘ ⊽			16362 Sep 21 15:09	0∘ ⊽	
	16361 Oct 17 02:20	0° M		morning set	16362 Oct 03 00:45	18° ≏ 43'56	
morning set	16361 Oct 20 23:45	6°M58′28		max. Earth dist.	16362 Oct 06 14:57	25° ≏ 05'00	1.37807 AU
max. Earth dist.	16361 Oct 24 15:26	13°M48'53	1.35516 AU		16362 Oct 09 07:36	0° M	
asc. node	16361 Oct 27 11:21	19°M18'35					
				superior conj	16362 Oct 13 19:05	8°M27'54	
superior conj	16361 Oct 30 11:55	25° ™ 21'24		minimum elong	16362 Oct 13 19:23	8°M29'22	0°04'28
minimum elong	16361 Oct 30 10:24	25° ™ 13'45	0°27'22	behind sun begin	16362 Oct 13 12:49	7° M 57'45	
	16361 Nov 01 18:25	0° ∡ ¹		behind sun end	16362 Oct 14 01:56	9° ™ 01'02	
evening rise	16361 Nov 07 05:22	11° ∡ 18'51		asc. node	16362 Oct 14 08:10	9°M31'09	
	16361 Nov 16 23:20	0°る	20022121	evening rise	16362 Oct 22 08:19	25°M22'55	
evening max el	16361 Nov 25 11:27	11°る28'51 14°る20'55	20°22'31	i1	16362 Oct 24 16:15	0° x̄¹ 22° x̄¹ 47!24	10015116
desc. node	16361 Nov 28 21:10	14°620'33 16° る 53'45		evening max el	16362 Nov 08 00:39	22° х 47′24 27° х 19′14	19°15'16
retrograde	16361 Dec 06 08:40	16°る33'43		desc. node	16362 Nov 15 18:16 16362 Nov 17 07:11		
evening set inferior conj	16361 Dec 08 15:46 16361 Dec 17 10:47	10 340 24 12° る 45'28	5013118	retrograde evening set	16362 Nov 17 07:11 16362 Nov 19 04:53	27° ₹ 26'41 27° ₹ 15'45	
minimum elong	16361 Dec 17 10:47	12° ろ 59'21		inferior conj	16362 Nov 27 16:58	23°×15'32	-3°43'02
min. Earth dist.	16361 Dec 18 23:15		0.54682 AU	minimum elong	16362 Nov 27 08:03	23°×720'24	
morning rise	16361 Dec 25 10:27	8°る44'53	0.54002 AC	min. Earth dist.	16362 Nov 30 08:47		0.55860 AU
direct	16361 Dec 30 02:30	7° る 57'54		morning rise	16362 Dec 05 08:49	18° ⋌ ³34'35	0.55000710
morning max el	16362 Jan 12 14:48	14° る 36'51	23°51'35	direct	16362 Dec 10 22:50	17° ∡ 23′02	
asc. node	16362 Jan 23 10:34	28° る 20'06		morning max el	16362 Dec 25 00:03	24° ₹ 31'04	25°37'26
	16362 Jan 24 11:34	0° ≈			16362 Dec 30 00:56	0°ਰ	
morning set	16362 Feb 05 19:53	23° ≈ 39'53		asc. node	16363 Jan 10 07:47	16° る 42'52	
	16362 Feb 08 18:01	0° ∀			16363 Jan 17 08:32	0° ≈	
				morning set	16363 Jan 21 07:31	8° ≈ 18'18	
superior conj	16362 Feb 12 15:38	8° ¥ 31′21	1°28'53				
minimum elong	16362 Feb 12 17:23	8°) 40′49	1°29'03	superior conj	16363 Jan 28 00:55	23° ≈ 08′21	1°36'30
max. Earth dist.	16362 Feb 15 08:58	14° ¥ 23′05	1.32710 AU	minimum elong	16363 Jan 28 01:42	23° ≈ 12'44	1°36'55
evening rise	16362 Feb 20 07:42	24°) 37′56		max. Earth dist.	16363 Jan 29 11:59	26° ≈ 22'15	1.31620 AU
	16362 Feb 23 01:11	0° Y			16363 Jan 31 03:43	0° ∀	
desc. node	16362 Feb 24 21:30	3° Y 30'40		evening rise	16363 Feb 04 04:50	8°) ₹37'16	
	16362 Mar 12 23:36	$0^{\circ}S$		desc. node	16363 Feb 11 18:13	23° ∺ 26′00	
evening max el	16362 Mar 26 08:52		27°29'08		16363 Feb 15 10:54	0° Υ	
retrograde	16362 Apr 09 02:40	23° 8 46'32		evening max el	16363 Mar 08 19:03	29° Y ′02'44	27°34'54
evening set	16362 Apr 15 20:35	21° 8 19'38			16363 Mar 09 19:36	0° 8	
min. Earth dist.	16362 Apr 19 15:40	17° 8 56'47	0.64155 AU	retrograde	16363 Mar 22 18:34	6° 8 31'07	
asc. node	16362 Apr 21 07:58	16° 8 11'09	00107-	evening set	16363 Mar 29 13:50	4° 8 17'22	0.60010 :=
inferior conj	16362 Apr 22 07:36	15° 8 08'16	0°18'27	min. Earth dist.	16363 Apr 02 08:06	1° 8 19'12	0.62019 AU
minimum elong	16362 Apr 22 07:05	15° 8 09'40	0°17'49		16363 Apr 03 18:20	30°₹ Υ	0054111
morning rise	16362 Apr 28 19:51	9° 8 47'54		inferior conj	16363 Apr 05 09:32	28° Y 27'09	
direct	16362 May 01 09:16	9° 8 14'46	17940121	minimum elong	16363 Apr 05 11:24	28° Y 22'45 25° Y 56'26	0~53'41
morning max el	16362 May 07 17:31	12° 8 29'28	1/4921	asc. node	16363 Apr 08 05:14	23 1 36 26	

	1.00.00 1 10 10 00	220002245			1606434 05 1400	co 000 cu to	
morning rise	16363 Apr 12 12:07	23° Y °23'47		morning rise	16364 Mar 25 14:02	6° Y 26'49	
direct	16363 Apr 14 17:51	23° Y ′01′15		direct	16364 Mar 27 14:20	6° Y 11'12	
morning max el	16363 Apr 21 10:57	26° Y ′24'19	17°47'42	morning max el	16364 Apr 04 01:11	9° Y 53′59	18°04'47
	16363 Apr 24 14:00	0° 8			16364 Apr 17 05:01	0° 8	
morning set	16363 May 07 07:34	20° 8 49'10		morning set	16364 Apr 19 15:10	4° 8 28'36	
desc. node	16363 May 10 19:20	26° 8 58'45		desc. node	16364 Apr 26 16:09	17° 8 26'58	
	16363 May 12 12:44	Π \circ 0					
				superior conj	16364 Apr 29 15:45	22° 8 47'56	-0°24'34
superior conj	16363 May 18 20:20	10° ∏ 49'42	-1°02'26	minimum elong	16364 Apr 29 13:42	22° 8 38'50	0°24'44
minimum elong	16363 May 18 14:38	10° Ⅲ 25'41	1°02'12		16364 May 03 18:46	$\Pi^{\circ}0$	
max. Earth dist.	16363 May 25 17:58	22° Ⅱ 11'38	1.43924 AU	max. Earth dist.	16364 May 07 05:51	5° Ⅱ 51'38	1.42043 AU
	16363 May 30 15:44	0 \circ \odot		evening rise	16364 May 12 11:26	14° Ⅲ 25'15	
evening rise	16363 Jun 02 06:09	4° 5 03'22			16364 May 22 13:00	0 \circ \odot	
	16363 Jun 19 17:46	$0^{\circ}\Omega$			16364 Jun 14 03:13	$0^{\circ}\Omega$	
evening max el	16363 Jul 03 02:06	16° Ω 45'43	21°17'28	evening max el	16364 Jun 14 19:17	0° Ω 40'42	22°35'47
asc. node	16363 Jul 05 03:54	18° Ω 40'45		asc. node	16364 Jun 21 00:47	5° Ω 30'54	
retrograde	16363 Jul 11 20:11	21° Ω 49'46		retrograde	16364 Jun 24 17:24	6°Ω29'11	
evening set	16363 Jul 16 06:43	20°Ω01'23		evening set	16364 Jun 29 15:29	4°Ω24'40	
inferior conj	16363 Jul 21 12:08	13°Ω49'04	3°08'13	evening sec	16364 Jul 03 12:20	30°Rூ	
minimum elong	16363 Jul 21 12:11	13°Ω48'52	3°07'42	inferior conj	16364 Jul 04 22:07	28° © 03'28	3°03'20
min. Earth dist.	16363 Jul 21 20:07	13° Ω 21'16	0.68955 AU	minimum elong	16364 Jul 04 21:15	28°\$06'30	3°02'39
morning rise	16363 Jul 26 17:24	7° Ω 29'17	0.00755710	min. Earth dist.	16364 Jul 04 16:58	28° © 21'24	0.69171 AU
direct	16363 Jul 31 19:02	5°Ω18'05			16364 Jul 10 02:52	20 S 21 24 21°S 51'08	0.091/1 AU
desc. node		$7^{\circ}\Omega 38'57$		morning rise			
	16363 Aug 06 18:07		22057140	direct	16364 Jul 14 16:23	19° © 57'49 25° © 09'14	21921152
morning max el	16363 Aug 11 00:01	11° Ω 21'32	22-5/40	morning max el	16364 Jul 23 14:53		21-31-52
	16363 Aug 25 20:32	0° Mp		desc. node	16364 Jul 23 15:24	25°©10'34	
morning set	16363 Sep 14 03:51	29° m 32'57			16364 Jul 27 23:22	Ω°	
	16363 Sep 14 10:25	0∘ ⊽			16364 Aug 18 06:17	0° m/y	
max. Earth dist.	16363 Sep 18 14:04	6° ≏ 58'23	1.40223 AU	morning set	16364 Aug 24 07:14	9° m 22'12	
				max. Earth dist.	16364 Aug 30 18:43	19° m 47'16	1.42479 AU
superior conj	16363 Sep 26 11:00	20° ≏ 52'41			16364 Sep 05 21:11	0∘ ⊽	
minimum elong	16363 Sep 26 14:10	21° ≏ 07'08	0°40'09				
asc. node	16363 Oct 01 04:54	29° ≏ 41'29		superior conj	16364 Sep 07 07:21	2° ≏ 26'37	
	16363 Oct 01 08:49	0°M₊		minimum elong	16364 Sep 07 13:46	2° ≏ 54'14	1°16'53
evening rise	16363 Oct 06 03:24	9° ™ 05'22		asc. node	16364 Sep 17 01:35	19° ≏ 46'23	
	16363 Oct 18 01:52	0° ∡ ¹		evening rise	16364 Sep 18 10:46	22° ≙ 17'04	
evening max el	16363 Oct 22 02:23	4° ₹ 54'11	18°30'20		16364 Sep 22 17:14	0° M ₊	
retrograde	16363 Oct 30 00:08	8° ≯ 54'52		evening max el	16364 Oct 04 12:27	17° M 40'25	18°06'20
evening set	16363 Oct 31 23:17	8° ∡ ¹40'47		retrograde	16364 Oct 11 11:43	21°M15'02	
desc. node	16363 Nov 02 15:26	8° ₮ 07'58		evening set	16364 Oct 13 17:03	20°M53'34	
inferior conj	16363 Nov 08 19:59	4° ∡ ¹09'46	-1°59'41	desc. node	16364 Oct 19 12:40	17° M 11'30	
minimum elong	16363 Nov 08 15:14	4° ∡ 18'59	1°57'12	inferior conj	16364 Oct 20 20:19	16°ML01'10	-0°25'14
min. Earth dist.	16363 Nov 12 00:43	1° ∡ 741'25	0.57710 AU	minimum elong	16364 Oct 20 19:28	16°ML03'07	0°24'27
	16363 Nov 14 11:28	30°RML		min. Earth dist.	16364 Oct 24 01:15	13°ML08'24	0.59926 AU
morning rise	16363 Nov 16 03:49	29°M02'13		morning rise	16364 Oct 27 18:38	10°M20'32	
direct	16363 Nov 22 09:34	27°M23'40		direct	16364 Nov 03 09:04	8° M ₊17'05	
	16363 Nov 30 12:14	0° ∡ ¹		morning max el	16364 Nov 17 15:09	16°M03'42	27°49'09
morning max el	16363 Dec 06 15:28	4° ∡ ¹53'52	27°00'59	C	16364 Nov 29 01:52	0° ∡ ¹	
Ü	16363 Dec 25 00:26	ರ°0		asc. node	16364 Dec 14 02:01	25° ∡ '09'21	
asc. node	16363 Dec 28 04:56	5° ರ 42'32			16364 Dec 16 13:08	0°ਰ	
morning set	16364 Jan 05 16:58	22° る 45'58		morning set	16364 Dec 19 22:25	6° る 58'35	
morning sec	16364 Jan 09 00:27	0°≈		max. Earth dist.	16364 Dec 26 02:16	20° る 24'46	1.31034 AU
	10304 3411 07 00.27	0 701		max. Lartii dist.	10304 Dec 20 02.10	20 02440	1.51054710
superior conj	16364 Jan 12 12:06	7° ≈ 47'02	1°38'01	superior conj	16364 Dec 26 23:18	22° る 22'19	1°33'30
minimum elong	16364 Jan 12 11:50	7°≈45'33	1°38'35	minimum elong	16364 Dec 26 22:03	22° る 15'16	
max. Earth dist.	16364 Jan 12 18:53	8°≈25'03	1.31055 AU	minimum clong	16364 Dec 30 09:13	0° ≈	1 3403
evening rise	16364 Jan 19 08:19	22°≈50'30	1.51055 AO	evening rise	16365 Jan 02 16:05	0 ∞ 7°≈12'46	
evening 11se	16364 Jan 22 19:02	0° ∺		evening rise	16365 Jan 14 08:09	/ ≈1246 0°)	
daga mada		0 X 12° ¥ 57′29		daga mada		0 X 1° ¥ 56'33	
desc. node	16364 Jan 29 14:57	12° π 5/29 0° Υ		desc. node	16365 Jan 15 11:43		26002122
avanir 1	16364 Feb 09 11:32		27907120	evening max el	16365 Jan 30 21:28	22°¥18'10	26°03'23
evening max el	16364 Feb 19 00:05	11° Υ 06'45	27°06'30	retrograde	16365 Feb 13 20:31	29°) 22'43	
retrograde	16364 Mar 04 01:14	18° Y 24'38		evening set	16365 Feb 19 23:09	27°) 54'59	0.57506 133
evening set	16364 Mar 10 15:51	16° Y 31′25	0.50554 : **	min. Earth dist.	16365 Feb 24 10:35	25°) €16'46	0.57586 AU
min. Earth dist.	16364 Mar 14 14:24	13° Y 49'12	0.59754 AU	inferior conj	16365 Feb 27 10:56	23°) €08'45	
inferior conj	16364 Mar 17 19:51	11°Υ10'38		minimum elong	16365 Feb 27 19:36	22°) ₹53′23	3°48'07
minimum elong	16364 Mar 18 01:09	10° ℃ 59'44	2°17'36	morning rise	16365 Mar 07 19:14	18°) (46′25	
asc. node	16364 Mar 25 02:32	6° Ƴ 34'58		direct	16365 Mar 09 18:23	18°) 34′00	

_							
asc. node	16365 Mar 11 23:51	18° ¥ 50'45		morning rise	16366 Feb 16 21:01	0° ¥ 13′02	
morning max el	16365 Mar 18 08:17	22° ∺ 47'16	18°42'15		16366 Feb 18 18:13	30° ₹ ≈	
	16365 Mar 24 01:11	0° Y		direct	16366 Feb 19 02:43	29° ≈ 59'39	
morning set	16365 Apr 03 10:40	18° Ƴ 39'04			16366 Feb 19 11:11	0° ∀	
	16365 Apr 09 07:21	$_{0\circ}$ 8		asc. node	16366 Feb 26 21:11	2°) 54′06	
				morning max el	16366 Mar 01 04:07	4° ¥ 52'54	19°42'08
superior conj	16365 Apr 12 06:53	5° 8 38'50	0°10'32	· ·	16366 Mar 17 00:28	$0^{\circ}\Upsilon$	
minimum elong	16365 Apr 12 07:35	5° 8 42'04	0°10'05	morning set	16366 Mar 18 14:14	3° Y ′09'22	
behind sun begin	16365 Apr 12 02:10	5° 8 16'44	0 10 00	morning ser	10500 11111 10 11111	3 . 0, 22	
behind sun end	16365 Apr 12 12:59	6° 8 07'22		superior aoni	16266 Mar 26 12:26	19° Ƴ 10'51	0°40'27
				superior conj	16366 Mar 26 13:26	19 1 10 31 19° Y 21′25	
desc. node	16365 Apr 13 12:53	7° 8 58'31		minimum elong	16366 Mar 26 15:35		0°39'56
max. Earth dist.	16365 Apr 19 13:49	18° 8 50'59	1.39833 AU	desc. node	16366 Mar 31 09:35	28° Ƴ 30′03	
evening rise	16365 Apr 23 13:45	25° 8 42'17			16366 Apr 01 04:50	$_{0\circ}$ 8	
	16365 Apr 26 03:48	Π \circ 0		max. Earth dist.	16366 Apr 01 20:06	1° 8 10'49	1.37533 AU
	16365 May 16 05:07	0 \circ \odot		evening rise	16366 Apr 05 12:32	7° 8 51'06	
evening max el	16365 May 28 09:34	14° © 36'05	23°57'25		16366 Apr 18 23:53	Π°	
asc. node	16365 Jun 07 21:46	21° © 04'29		evening max el	16366 May 10 22:55	28° Ⅱ 30'48	25°15'34
retrograde	16365 Jun 08 11:41	21° © 05'55		Ü	16366 May 12 12:31	0ංම	
evening set	16365 Jun 13 21:29	18°9647'41		retrograde	16366 May 23 02:03	5° © 33'29	
min. Earth dist.	16365 Jun 18 13:15	13°9522'05	0.68894 AU	asc. node	16366 May 25 18:50	5°903'28	
					•		
inferior conj	16365 Jun 19 07:29	12°520'01	2°48'00	evening set	16366 May 28 23:06	3°505'28	
minimum elong	16365 Jun 19 05:51	12° © 25'36	2°47'04		16366 May 31 22:05	30°RⅡ	
morning rise	16365 Jun 24 14:15	6° © 16'34		min. Earth dist.	16366 Jun 02 07:00	28° Ⅱ 16'54	0.68132 AU
direct	16365 Jun 28 15:52	4° 5 642'48		inferior conj	16366 Jun 03 14:21	26° Ⅲ 34'44	2°21'57
morning max el	16365 Jul 06 11:47	9° 5 07'33	20°15'49	minimum elong	16366 Jun 03 12:14	26° Ⅱ 41'39	2°20'46
desc. node	16365 Jul 10 12:36	13° © 37'26		morning rise	16366 Jun 09 01:46	20° Ⅱ 41'16	
	16365 Jul 22 10:08	$0^{\circ}\Omega$		direct	16366 Jun 12 16:05	19° Ⅲ 27′03	
morning set	16365 Aug 03 15:53	18° Ω 25'49		morning max el	16366 Jun 19 15:58	23° Ⅱ 16′02	19°13'37
morning set	16365 Aug 11 02:05	0° m)		morning max er	16366 Jun 25 09:15	0°95	17 13 37
Fauth 4:-4	-		1 44210 ATT	J J.			
max. Earth dist.	16365 Aug 13 06:20	3-110/2/11/	1.44310 AU	desc. node	16366 Jun 27 09:43	2°545'04	0.7
				greatest brilliancy	16366 Jul 02 10:22	10° © 00'58	-0.7m
superior conj	16365 Aug 19 04:34	13° m 01'52		morning set	16366 Jul 13 21:20	27° © 25'51	
minimum elong	16365 Aug 19 12:29	13° Mp 34'20	1°49'40		16366 Jul 15 13:22	$0 {\circ} \Omega$	
	16365 Aug 29 07:14	0∘ ত		max. Earth dist.	16366 Jul 26 23:03	17° Ω 42'30	1.45524 AU
evening rise	16365 Sep 01 01:35	4° £ 45′26					
asc. node	16365 Sep 03 22:15	9° ≙ 41'30		superior conj	16366 Jul 30 03:32	22° Ω 43'17	-2°10'41
	16365 Sep 17 05:22	0° M .		minimum elong	16366 Jul 30 08:06	23° Ω 01'20	2°10'58
evening max el	16365 Sep 18 02:37	0°M55'23	18°01'42	g	16366 Aug 03 17:29	0° m)	2 1000
•		4°M17'30	10 01 42	ovenina rice	-		
retrograde	16365 Sep 24 13:56			evening rise	16366 Aug 13 18:36	16° M) 17'33	
evening set	16365 Sep 27 03:12	3°M45'03		asc. node	16366 Aug 21 18:57	29° Mp 22'26	
	16365 Oct 02 04:39	30° ₹ Ω			16366 Aug 22 04:21	0∘ ⊽	
inferior conj	16365 Oct 03 14:50	28° ഫ 33'35	0°51'17	evening max el	16366 Sep 01 17:21	14° ≏ 30'29	18°15'22
minimum elong	16365 Oct 03 16:16	28° ≏ 29'53	0°51'01	retrograde	16366 Sep 08 02:16	17° ≙ 53'13	
desc. node	16365 Oct 06 09:57	25° ₽ 41'05		evening set	16366 Sep 11 00:17	17° ≏ 06'46	
min. Earth dist.	16365 Oct 06 11:49	25° ♀ 36'27	0.62218 AU	inferior conj	16366 Sep 16 23:30	11° ≏ 39'02	1°48'35
morning rise	16365 Oct 10 02:48	22° ₽ 28'26		minimum elong	16366 Sep 17 01:46	11° ≏ 32'29	1°47'57
direct	16365 Oct 16 19:18	20° ჲ 05'39		min. Earth dist.	16366 Sep 19 08:28	8° £ 55'43	0.64361 AU
morning max el	16365 Oct 30 21:37	28° ഫ 02'28	27°57'51	morning rise	16366 Sep 23 01:34	5° ₽ 19'07	0.0 .501 110
morning max cr	16365 Nov 01 19:05	0°M	27 37 31	desc. node	16366 Sep 23 07:16	5° ≏ 08'03	
					-		
	16365 Nov 22 21:16	0° ∡ ¹		direct	16366 Sep 29 14:52	2° ≏ 44'47	
asc. node	16365 Nov 30 23:01	14° ₹ ′55′18		morning max el	16366 Oct 13 07:58	10° ≙ 41'59	27°30'01
morning set	16365 Dec 03 21:47	20° ₹ 51'05			16366 Oct 28 14:38	0° M	
	16365 Dec 08 05:52	0°₹			16366 Nov 15 07:37	0° ∡ ¹	
max. Earth dist.	16365 Dec 09 06:09	2° る 11'42	1.31568 AU	morning set	16366 Nov 17 12:31	4° ∡ 17'38	
				asc. node	16366 Nov 17 19:56	4° × 754'21	
superior conj	16365 Dec 11 08:41	6° る 48'57	1°22'54	max. Earth dist.	16366 Nov 22 02:45	13° ∡ ³38'32	1.32677 AU
minimum elong	16365 Dec 11 06:39	6° ට 37'46	1°23'20				
evening rise	16365 Dec 18 02:13	21° る 39'15	1 23 20	superior conj	16366 Nov 25 14:09	21° х 01'26	1°06'05
evening 1150							
1 1	16365 Dec 22 01:14	0°≈		minimum elong	16366 Nov 25 11:47	20° х 48′39	1°06'23
desc. node	16366 Jan 02 08:33	20°≈11'26			16366 Nov 29 17:24	0°る	
	16366 Jan 09 20:20	0° ∀		evening rise	16366 Dec 02 12:57	6° る 05'25	
evening max el	16366 Jan 12 10:30	2°) 40′12	24°32'35		16366 Dec 15 01:12	0° ≈	
retrograde	16366 Jan 26 02:56	9°) 29'42		desc. node	16366 Dec 20 05:28	7° ≈ 25'38	
evening set	16366 Jan 31 08:37	8°) € 29'24		evening max el	16366 Dec 24 19:50	12° ≈ 35'15	22°49'10
min. Earth dist.	16366 Feb 05 22:24	5°) 38′53	0.55782 AU	retrograde	16367 Jan 06 20:37	19° ≈ 01'58	
inferior conj	16366 Feb 08 04:47	4°) 14'48		evening set	16367 Jan 10 20:49	18° ≈ 27'00	
-	16366 Feb 08 13:44	4°) €00'57		min. Earth dist.	16367 Jan 18 05:11	15° ≈ 04'30	0.54639 AU
minimum elong							

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7°る27'19

16368 Nov 22 23:33

24°る24'15 -5°47'20

desc. node

16367 Dec 29 18:36

inferior conj

ratragrada	16269 Nov 27 20:12	8° る 35'57		ovening rise	16360 Oat 15 04:26	18° M .35'18	
retrograde	16368 Nov 27 20:13			evening rise	16369 Oct 15 04:26		
evening set	16368 Nov 29 21:50	8°る24'21	1020126		16369 Oct 21 03:45	0° ∡ ¹	1005000
inferior conj	16368 Dec 08 15:21	4° る 24'09		evening max el	16369 Oct 31 10:57	15° ⋌ 10'29	18°53'22
minimum elong	16368 Dec 08 05:21	4° る 39'33	4°34'56	retrograde	16369 Nov 09 02:17	19° ∡ ³32′09	
min. Earth dist.	16368 Dec 10 17:16	3° る 07'26	0.55091 AU	desc. node	16369 Nov 09 20:40	19° ∡ ′30′11	
morning rise	16368 Dec 16 11:35	0° る 12'30		evening set	16369 Nov 10 23:49	19° ∡ ¹20′20	
	16368 Dec 17 02:09	30°₽ ⋌ ¹		inferior conj	16369 Nov 19 05:54	15° ∡ '01'09	-2°59'06
direct	16368 Dec 21 14:01	29° ∡ 15'19		minimum elong	16369 Nov 18 22:36	15° ∡ 14'07	2°55'43
	16368 Dec 26 00:25	0°₹		min. Earth dist.	16369 Nov 22 04:49	12° ₹ ′55'33	0.56587 AU
morning max el	16369 Jan 04 08:37	6° る 07'08	24°38'12	morning rise	16369 Nov 26 18:32	10° √ 14'54	
asc. node	16369 Jan 17 13:01	23°る23'20	24 30 12	direct	16369 Dec 02 16:02	8° ×7 52'14	
asc. node							26016150
_	16369 Jan 21 08:10	0° ≈		morning max el	16369 Dec 16 19:53	16° ₹ ′09'33	26°16'50
morning set	16369 Jan 29 22:06	17° ≈ 14'09			16369 Dec 28 01:41	0°ಕ	
	16369 Feb 04 17:52	0°) €		asc. node	16370 Jan 04 10:11	12° る 02'50	
					16370 Jan 13 12:47	0° ≈	
superior conj	16369 Feb 05 16:21	2°) €03'42	1°32'52	morning set	16370 Jan 14 08:59	1° ≈ 48'12	
minimum elong	16369 Feb 05 17:43	2° ₩ 11'11	1°33'08				
max. Earth dist.	16369 Feb 07 20:22	6° ¥ 47'31	1.32186 AU	superior conj	16370 Jan 21 02:37	16° ≈ 41'23	1°37'53
evening rise	16369 Feb 13 02:41	17° ¥ 53′00	1.52100110	minimum elong	16370 Jan 21 02:57	16° ≈ 43'19	1°38'23
desc. node	16369 Feb 18 23:42	29° ¥ 20′54		max. Earth dist.	16370 Jan 22 01:37	18° ≈ 49'33	1.31313 AU
desc. node				max. Earth dist.			1.31313 AU
	16369 Feb 19 08:08	0° Υ			16370 Jan 27 04:22	0° ∀	
	16369 Mar 10 12:25	$0^{\circ}S$		evening rise	16370 Jan 28 02:45	1° ¥ 58′21	
evening max el	16369 Mar 18 14:32	9° 8 06'21	27°35'40	desc. node	16370 Feb 05 20:25	19° ∺ 06'49	
retrograde	16369 Apr 01 11:14	16° 8 37'24			16370 Feb 12 05:47	0 ° Υ	
evening set	16369 Apr 08 06:18	14° 8 15'32		evening max el	16370 Feb 28 22:51	21° Y 37'09	27°27'13
min. Earth dist.	16369 Apr 12 00:44	11° 8 03'53	0.63270 AU	retrograde	16370 Mar 14 23:05	29° Ƴ 01'04	
inferior conj	16369 Apr 14 21:02	8° 8 12'16		evening set	16370 Mar 21 17:25	26° Y ′55′08	
minimum elong	16369 Apr 14 21:22	8° 8 11'23	0°10'50	min. Earth dist.	16370 Mar 25 12:41	24° Υ 05'19	0.61058 AU
transit middle		8° 8 11'23	0°10'50		16370 Mar 28 16:46	21°Υ16'56	
	16369 Apr 14 21:22		0 10 30	inferior conj			
transit begin	16369 Apr 14 19:02	8° 8 17'19		minimum elong	16370 Mar 28 20:00	21° Y ′09'44	1°27'57
transit end	16369 Apr 14 23:43	8° 8 05'29		asc. node	16370 Apr 02 07:44	17° Ƴ 38'35	
asc. node	16369 Apr 15 10:26	7° 8 38'35		morning rise	16370 Apr 05 01:56	16° Y 21'40	
morning rise	16369 Apr 21 15:04	2° 8 58'29		direct	16370 Apr 07 05:09	16° Ƴ 02'24	
direct	16369 Apr 24 01:06	2° 8 30'09		morning max el	16370 Apr 14 04:28	19° Ƴ 32'06	17°52'42
morning max el	16369 Apr 30 11:58	5° 8 47'01	17°46'27	Ü	16370 Apr 21 21:48	0°B	
morning set	16369 May 16 21:30	0° П 38'54		morning set	16370 Apr 29 19:59	13° 8 53'30	
morning sec	16369 May 16 12:27	0°Ⅱ		desc. node	16370 May 04 21:33	23° 8 00'02	
1 1	-	0°П 2°П35'49		desc. Hode			
desc. node	16369 May 18 00:43	2°Щ35′49			16370 May 08 20:53	Π \circ 0	
		🗕					
superior conj	16369 May 29 10:01	21° Ⅱ 45′05		superior conj	16370 May 10 16:25	3° Ⅱ 08'16	
minimum elong	16369 May 29 02:26	21° Ⅱ 13'58	1°23'27	minimum elong	16370 May 10 12:18	2° Ⅱ 50'34	0°46'13
	16369 Jun 03 12:28	0 \circ \odot		max. Earth dist.	16370 May 18 00:50	15° Ⅲ 27′27	1.43176 AU
max. Earth dist.	16369 Jun 04 09:54	1° 5 25'24	1.44780 AU	evening rise	16370 May 24 10:19	25° Ⅱ 41'47	
evening rise	16369 Jun 13 15:19	15°9349'05			16370 May 27 04:40	0°9	
Č	16369 Jun 23 01:03	$0^{\circ}\Omega$			16370 Jun 16 22:51	$0^{\circ}\Omega$	
asc. node	16369 Jul 12 09:18	25° Ω 52'56		evening max el	16370 Jun 25 10:39	10° Ω 01'16	21°/0'51
	16369 Jul 12 14:56	26° Ω 07'04	20026110	asc. node	16370 Jun 29 06:12	13°Ω18'50	21 47 31
evening max el			20 30 10				
	16369 Jul 17 16:45	0° m)		retrograde	16370 Jul 04 16:20	15° Ω 24'12	
retrograde	16369 Jul 20 17:55	0° m 45'53		evening set	16370 Jul 09 07:47	13° Ω 28′28	
	16369 Jul 23 14:38	30° R Ω		inferior conj	16370 Jul 14 13:26	7° Ω 11'57	
evening set	16369 Jul 24 22:09	29° Ω 07'18		minimum elong	16370 Jul 14 13:05	7° Ω 13′10	3°06'50
inferior conj	16369 Jul 30 03:58	23° Ω 00′58	3°06'10	min. Earth dist.	16370 Jul 14 15:42	7° Ω 04'00	0.69112 AU
minimum elong	16369 Jul 30 04:35	22° Ω 58'53	3°05'42	morning rise	16370 Jul 19 18:12	0° Ω 55'16	
min. Earth dist.	16369 Jul 30 19:33	22° Ω 07'18	0.68619 AU		16370 Jul 20 23:33	30° ℝ ∽	
morning rise	16369 Aug 04 10:42	16° Ω 38'07		direct	16370 Jul 24 14:36	28°951'38	
direct	16369 Aug 09 19:18	14° Ω 18'13		311000	16370 Jul 28 13:45	0°Ω	
	-			daga 15 - 4 -			
desc. node	16369 Aug 13 23:17	15° Ω 27'16	220 10150	desc. node	16370 Jul 31 20:34	2° Ω 18'24	22020121
morning max el	16369 Aug 20 17:40	20° Ω 49'29	23°48'58	morning max el	16370 Aug 03 06:30	4° Ω 32'46	22°20'21
	16369 Aug 28 15:17	0° m)			16370 Aug 22 18:46	0° m)	
	16369 Sep 18 06:21	0∘ ⊽		morning set	16370 Sep 05 12:21	21° My $10'23$	
morning set	16369 Sep 24 19:18	10° ≏ 46'33		max. Earth dist.	16370 Sep 10 16:19	29° m 40'07	1.41224 AU
max. Earth dist.	16369 Sep 28 14:56	17° ≏ 22'18	1.38848 AU		16370 Sep 10 21:04	0∘ ⊽	
	16369 Oct 05 13:42	0°M₊					
	22. 20 10.12			superior conj	16370 Sep 18 12:44	13° ≏ 14'17	-0°56'39
superior conj	16369 Oct 06 04:37	1° ™ 10'07	_0°19'47	minimum elong	16370 Sep 18 17:19	13° ⊆ 1417	
				=	=		0 55 50
minimum elong	16369 Oct 06 06:01	1°M16'44	0 1913	asc. node	16370 Sep 25 07:04	25° £ 34'10	
asc. node	16369 Oct 08 10:21	5°M25'34			16370 Sep 27 16:04	0° M	

	16270 0 20 10 06	20 m 06125			16271 4 20 22 21	0.40 m. 0.010 C	1022126
evening rise	16370 Sep 28 19:06	2°M06'25		superior conj	16371 Aug 30 23:31	24° m) 23'36	
evening max el	16370 Oct 14 16:42	27°M35'05	18°17'34	minimum elong	16371 Aug 31 06:58	24° m 54'58	1°31'40
	16370 Oct 17 15:58	0°⊀			16371 Sep 03 06:36	0∘ ⊽	
retrograde	16370 Oct 22 03:47	1° ≯ 23'28		evening rise	16371 Sep 11 20:06	15° ≏ 01'24	
evening set	16370 Oct 24 05:03	1° ∡ ¹06'49		asc. node	16371 Sep 12 03:46	15° ≏ 35'27	
	16370 Oct 26 20:57	30°RM₊			16371 Sep 20 11:02	0° M	
desc. node	16370 Oct 27 17:51	29° ™ 28'47		evening max el	16371 Sep 28 05:00	10° M 34'55	18°02'04
inferior conj	16370 Oct 31 18:18	26°M26'25	-1°17'45	retrograde	16371 Oct 04 22:04	14° M L02'38	
minimum elong	16370 Oct 31 15:22	26°M32'30	1°16'01	evening set	16371 Oct 07 06:33	13°MJ37'02	
min. Earth dist.	16370 Nov 04 00:19	23°M45'09	0.58623 AU	inferior conj	16371 Oct 14 02:52	8°MJ36'31	0°09'37
morning rise	16370 Nov 07 22:12	21°M03'34		minimum elong	16371 Oct 14 03:11	8°MJ35'46	0°09'51
direct	16370 Nov 14 08:15	19° M .14'05		transit middle	16371 Oct 14 03:11	8°M35'46	0°09'51
morning max el	16370 Nov 28 15:08	26°M52'29	27°26'21	transit begin	16371 Oct 14 00:36	8°M41'59	
morning max cr	16370 Dec 01 15:00	0° √	27 2021	transit end	16371 Oct 14 05:47	8°M29'32	
	16370 Dec 21 15:14	%ਰ		desc. node	16371 Oct 14 05:47	8°M07'03	
aga mada	16370 Dec 22 07:17	1°る15'15		min. Earth dist.		5°M39'06	0.60906 AU
asc. node					16371 Oct 17 05:18		0.00900 AU
morning set	16370 Dec 29 16:59	16° ප 10'33		morning rise	16371 Oct 20 20:47	2°M44'06	
	16371 Jan 04 23:50	0° ≈		direct	16371 Oct 27 12:52	0° ጤ 31'11	
				morning max el	16371 Nov 10 18:03	8°M24'00	27°57'33
superior conj	16371 Jan 05 14:02	1°≈19'32	1°36'51		16371 Nov 27 08:06	0° ∡	
minimum elong	16371 Jan 05 13:20	1° ≈ 15'35	1°37'25	asc. node	16371 Dec 09 04:19	20° ∡ 50′54	
max. Earth dist.	16371 Jan 05 09:12	0° ≈ 52'29	1.30972 AU	morning set	16371 Dec 13 20:07	0°る15'20	
evening rise	16371 Jan 12 08:17	16° ≈ 16′01			16371 Dec 13 17:11	0°₹	
	16371 Jan 19 02:10	0° ∀		max. Earth dist.	16371 Dec 19 15:23	12° る 46'52	1.31187 AU
desc. node	16371 Jan 23 17:10	8° ¥ 26'02					
	16371 Feb 07 19:33	$0^{\circ}\Upsilon$		superior conj	16371 Dec 21 00:42	15° る 51'55	1°29'45
evening max el	16371 Feb 11 00:36	3°Υ18'23	26°43'40	minimum elong	16371 Dec 20 23:05	15° る 42'53	1°30'16
retrograde	16371 Feb 25 01:17	10° Υ 31'38	20 43 40	minimum ciong	16371 Dec 27 09:48	0° ≈	1 30 10
evening set	16371 Mar 03 11:56	8° Υ 48'24		evening rise	16371 Dec 27 07:48	0°≈40'27	
•		6°Υ09'50	0.50001 ATT	•			
min. Earth dist.	16371 Mar 07 14:24		0.58801 AU	desc. node	16372 Jan 10 13:57	27°≈07'51	
inferior conj	16371 Mar 10 19:16	3° Y 41'57			16372 Jan 12 09:58	0°) {	
minimum elong	16371 Mar 11 02:08	3° Y 28'41	2°55'48	evening max el	16372 Jan 23 18:11	14°) €07'00	25°27'27
	16371 Mar 16 09:22	30° ₹		retrograde	16372 Feb 06 15:40	21° ∺ 06′10	
morning rise	16371 Mar 18 19:55	29° ∺ 07'35		evening set	16372 Feb 12 10:14	19° ¥ 50′15	
asc. node	16371 Mar 20 05:01	28° ¥ 55′05		min. Earth dist.	16372 Feb 17 06:57	17° ∺ 08'43	0.56751 AU
direct	16371 Mar 20 19:00	28°) 53′51		inferior conj	16372 Feb 20 01:19	15° ₩ 17'59	-4°28'24
	16371 Mar 24 23:34	0 ° $\mathbf{\Upsilon}$		minimum elong	16372 Feb 20 10:43	15° ∺ 02'16	4°25'27
morning max el	16371 Mar 28 16:15	2° Y 48'06	18°18'12	morning rise	16372 Feb 28 14:04	11°) €04'46	
morning set	16371 Apr 13 09:10	27° Ƴ 47'18		direct	16372 Mar 01 14:35	10° ¥ 52'38	
	16371 Apr 14 13:11	0°8		asc. node	16372 Mar 06 02:20	11° ¥ 56′22	
desc. node	16371 Apr 21 18:21	13° 8 30'02		morning max el	16372 Mar 10 19:06	15° ¥ 22'26	19°04'54
	r				16372 Mar 21 00:04	0° Υ	
superior conj	16371 Apr 22 20:46	15° 8 30'25	-0°09'12	morning set	16372 Mar 27 08:29	12° Y ′06'53	
minimum elong	16371 Apr 22 20:02	15° 8 27'05		morning sec	103/21/101 2/ 00.29	12 1 00 33	
behind sun begin	16371 Apr 22 14:02	14° 8 59'51	0 0730	superior conj	16372 Apr 04 18:57	28° Ƴ 39'46	0°23'55
•	-				-		
behind sun end	16371 Apr 23 02:01	15° 8 54'16	1 41104 411	minimum elong	16372 Apr 04 20:24	28° Y 46'45	0°23'24
max. Earth dist.	16371 Apr 30 10:29	28° 8 48'54	1.41124 AU		16372 Apr 05 11:45	0°8	
	16371 May 01 03:16	0° Π		desc. node	16372 Apr 07 15:05	4° 8 01'49	
evening rise	16371 May 05 00:15	6° Ⅱ 26'17		max. Earth dist.	16372 Apr 11 16:45	_	1.38847 AU
	16371 May 20 07:49	0 \circ \odot		evening rise	16372 Apr 15 11:34	18° 8 06'10	
evening max el	16371 Jun 08 02:08	23° © 55'26	23°10'25		16372 Apr 22 15:52	Π $^{\circ}0$	
asc. node	16371 Jun 16 03:08	29° 5 38'29			16372 May 13 15:53	0 \circ \odot	
	16371 Jun 17 16:55	$0^{\circ}\Omega$		evening max el	16372 May 20 15:52	7° 9 51'00	24°31'38
retrograde	16371 Jun 18 12:35	0° Ω 03'00		retrograde	16372 Jun 01 05:26	14° © 36'27	
	16371 Jun 19 07:51	30°Rூ		asc. node	16372 Jun 02 00:09	14° © 33'54	
evening set	16371 Jun 23 15:35	27° © 52'13		evening set	16372 Jun 06 19:57	12° © 13'46	
inferior conj	16371 Jun 28 23:23	21° © 27'38	2°58'08	min. Earth dist.	16372 Jun 11 08:14	7° © 03'45	0.68620 AU
minimum elong	16371 Jun 28 22:10	21°931'52	2°57'20	inferior conj	16372 Jun 12 07:58	5°9544'11	2°38'22
min. Earth dist.	16371 Jun 28 12:39	22°504'49	0.69110 AU	minimum elong	16372 Jun 12 06:05	5°950'32	
morning rise	16371 Jul	15°9518'47	0.07110 AU	minimum clong	16372 Jun 17 08:20	30°RⅡ	2 3/10
direct				morning -i			
	16371 Jul 08 12:57	13°533'51	20057150	morning rise	16372 Jun 17 16:21	29° Ⅱ 44'35	
morning max el	16371 Jul 16 23:43	18°924'54	20°57'59	direct	16372 Jun 21 13:04	28° Ⅱ 19'08	
desc. node	16371 Jul 18 17:48	20°55'18			16372 Jun 26 01:56	0°©	
	16371 Jul 26 12:39	0 \circ Ω		morning max el	16372 Jun 28 23:37	2° 5 27'30	19°47'29
	16371 Aug 15 21:02	0° m		desc. node	16372 Jul 04 14:59	9° © 01'03	
morning set	16371 Aug 16 06:37	0° ™ 37'13			16372 Jul 19 04:56	0 $^{\circ}\Omega$	
max. Earth dist.	16371 Aug 23 23:28	12° m 50'08	1.43320 AU	morning set	16372 Jul 25 11:30	9° £ 32′52	

max. Earth dist.	16372 Aug 05 13:13	26° Ω 46′19	1.44907 AU		16373 Jul 12 02:57	0 $^{\circ}$ Ω	
	16372 Aug 07 14:04	0° m ∕		max. Earth dist.	16373 Jul 19 07:51	11° Ω 13′05	1.45826 AU
superior conj	16372 Aug 10 10:54	4° Mp 35′23	-2°00'45	superior conj	16373 Jul 21 02:39	14° Ω 00′26	-2°14'03
minimum elong	16372 Aug 10 18:08	5° ™ 04'28	2°00'36	minimum elong	16373 Jul 21 04:11	14° Ω 06′24	2°14'34
evening rise	16372 Aug 24 02:19	27° m 07'41			16373 Jul 31 05:42	0° ™	
	16372 Aug 25 19:07	0∘ ⊽		evening rise	16373 Aug 05 08:43	8° Mp 12'46	
asc. node	16372 Aug 29 00:28	5° ≏ 25'36		asc. node	16373 Aug 15 21:12	24° m 58'53	
evening max el	16372 Sep 10 19:58	24° ♀ 00'39	18°05'23		16373 Aug 19 05:46	0∘ ত	
retrograde	16372 Sep 17 05:02	27° ₽ 21'04		evening max el	16373 Aug 25 10:04	7° ≙ 42'19	18°26'32
evening set	16372 Sep 19 22:00	26° ≏ 42'58		retrograde	16373 Aug 31 20:28	11° ≏ 08'55	
inferior conj	16372 Sep 26 03:57	21° ≏ 24'31	1°17'48	evening set	16373 Sep 03 22:30	10° ≏ 15'34	
minimum elong	16372 Sep 26 05:53	21° ₽ 19'16	1°17'19	inferior conj	16373 Sep 09 17:30	4° ₽ 41'28	2°07'27
min. Earth dist.	16372 Sep 28 20:14	18° ≏ 31'13	0.63164 AU	minimum elong	16373 Sep 09 19:48	4° -2 34'33	2°06'48
desc. node	16372 Sep 30 12:25	16° ≏ 51'42		min. Earth dist.	16373 Sep 11 20:39	2° ഫ 09'00	0.65191 AU
morning rise	16372 Oct 02 11:38	15° ≏ 12'13			16373 Sep 13 19:38	30°₽, ™)	
direct	16372 Oct 09 03:34	12° ≏ 43'16		morning rise	16373 Sep 15 15:47	28° m 18'14	
morning max el	16372 Oct 23 02:21	20° ≏ 41'20	27°49'58	desc. node	16373 Sep 17 09:46	27° m) 03'57	
3	16372 Oct 31 03:57	0°M₊		direct	16373 Sep 22 02:28	25° m) 41'54	
	16372 Nov 19 09:44	0° ⊼ 7			16373 Oct 01 15:23	0∘ ⊽	
asc. node	16372 Nov 25 01:17	10° х 43′18		morning max el	16373 Oct 05 13:24	ა <u>—</u> 3° ჲ 34'08	27°08'52
morning set	16372 Nov 26 16:09	13° х 57'40			16373 Oct 25 13:41	0°M	_,
max. Earth dist.	16372 Dec 01 16:27	24° × 25'23	1.31977 AU	morning set	16373 Nov 10 02:21	27°ML11'27	
max. Earth dist.	103/2 Dec 01 10.2/	24 7 23 23	1.517//110	asc. node	16373 Nov 11 22:12	0° √ 46'41	
superior conj	16372 Dec 04 08:44	0° る 13'41	1°16'32	use. node	16373 Nov 11 12:47	0° ₹ ⁷	
minimum elong	16372 Dec 04 06:29	0° ろ 01'27		max. Earth dist.	16373 Nov 14 09:18		1.33329 AU
minimum ciong	16372 Dec 04 06:13	0°る。	1 1033	max. Earth dist.	103/3 1107 14 07.10	3 7 4432	1.5552) 110
evening rise	16372 Dec 11 03:55	0 0 15° る 07'41		superior conj	16373 Nov 18 11:54	14° ₹ 19'00	0°57'06
evening rise	16372 Dec 18 10:38	0°≈		minimum elong	16373 Nov 18 09:34	14° × 1900	0°57'21
desc. node	16372 Dec 18 10:58 16372 Dec 27 10:50	0 ∞ 14°≈59'05		evening rise	16373 Nov 25 14:24	29° х 33'13	0 3/21
evening max el	16373 Jan 04 04:56	24°≈14'19	22940100	evening rise	16373 Nov 25 14:24 16373 Nov 25 19:26	29 X・33 13	
evening max er	16373 Jan 12 18:23	0°)	23 49 00		16373 Dec 12 21:37	0°≈	
retrograde	16373 Jan 17 16:09	0°) 54'39		desc. node	16373 Dec 12 21.37 16373 Dec 14 07:48	0 ∞ 1°≈42'01	
evening set	16373 Jan 22 09:57	0° ∺ 06'00		evening max el	16373 Dec 14 07:48	4°≈10'15	22°05'49
evening set	16373 Jan 22 16:59	0 X0000 30°R≈		retrograde	16373 Dec 16 13.42 16373 Dec 29 05:01	4 ≈1013 10°≈22'41	22 03 49
min Forth dist	16373 Jan 28 16:23		0.55204 AU	•		9°≈55'57	
min. Earth dist.	16373 Jan 30 10:30			evening set	16374 Jan 01 16:18 16374 Jan 10 04:26		6901150
inferior conj	16373 Jan 30 10:30	26°≈01'59 25°≈51'23		inferior conj minimum elong	16374 Jan 10 04.26	6°≈05'06 6°≈06'53	
minimum elong	16373 Feb 08 02:58	23 ≈31 23 22°≈06'35	3 37 03	min. Earth dist.			0.54425 AU
morning rise	16373 Feb				16374 Jan 09 21:50	0 ≈14 19 2°≈17'49	0.34423 AU
direct	16373 Feb 10 14.34 16373 Feb 20 23:39	21°≈51'00 26°≈41'47		morning rise direct	16374 Jan 18 14:52 16374 Jan 22 00:58	2 ≈1749 1°≈51'54	
asc. node		20 ≈41 47 27°≈03'40	2001.414.2				21947100
morning max el	16373 Feb 21 08:50		20-14-42	morning max el	16374 Feb 03 07:29	7°≈48'11 12°≈55'48	21°47'08
	16373 Feb 24 01:42	0°) {		asc. node	16374 Feb 07 20:57	0°) €	
morning set	16373 Mar 11 14:29	26°¥42'06 0° Y			16374 Feb 18 09:15	11° ∺ 25'18	
	16373 Mar 13 05:03	0.4		morning set	16374 Feb 24 00:32	11° X 25'18	
	16272 M 10 06 42	1200024120	0051110		1/27/11/1 02 04 22	269 125114	1010106
superior conj	16373 Mar 19 06:42	12° Υ 24'39		superior conj	16374 Mar 03 04:23		1°12'26
minimum elong	16373 Mar 19 09:07	12° Υ 36'48		minimum elong	16374 Mar 03 06:49	26°¥48'02 0° Y	1°12'12
max. Earth dist.	16373 Mar 24 23:45	23° Y 34'49	1.36588 AU	To all the	16374 Mar 04 19:43		1 24550 411
desc. node	16373 Mar 25 11:46	24° Y 31'40		max. Earth dist.	16374 Mar 07 11:43	5°Υ26'23	1.34558 AU
	16373 Mar 28 10:39	0°8		evening rise	16374 Mar 11 16:29	13° Y 40′05	
evening rise	16373 Mar 28 18:07	0° 8 33'53		desc. node	16374 Mar 12 08:28	14° Y 56′00	
	16373 Apr 15 20:12	0°II	0.504.611.0		16374 Mar 20 19:05	0° X	
evening max el	16373 May 03 05:28	21° ∏ 44'49	25°46'12		16374 Apr 10 16:24	0°II	
retrograde	16373 May 15 17:40	28° ∏ 57'19		evening max el	16374 Apr 15 19:16	5° Ⅱ 30'08	26°46'36
asc. node	16373 May 19 21:15	27° Ⅱ 48'06		retrograde	16374 Apr 29 00:32	12° Ⅱ 58'14	
evening set	16373 May 21 19:09	26° Ⅱ 26'54	0.68660	evening set	16374 May 05 11:19	10° Ⅲ 25'31	
min. Earth dist.	16373 May 26 00:18		0.67660 AU	asc. node	16374 May 06 18:25	9° Ⅱ 17'40	0.66255
inferior conj	16373 May 27 13:09			min. Earth dist.	16374 May 09 10:46		0.66256 AU
minimum elong	16373 May 27 10:58	20° I I03'32	2°06'15	inferior conj	16374 May 11 12:43		1°24'33
morning rise	16373 Jun 02 03:20	14° Ⅱ 07'32		minimum elong	16374 May 11 10:48	4° Ⅱ 05'31	1°23'20
direct	16373 Jun 05 13:10	13° Ⅱ 01'01			16374 May 15 06:08	30°₹ 8	
morning max el	16373 Jun 12 06:42	16° Ⅱ 38'29	18°51'59	morning rise	16374 May 17 11:33	28° 8 23'03	
desc. node	16373 Jun 21 12:05	28° Ⅱ 22'16		direct	16374 May 20 11:19	27° 8 33'40	
	16373 Jun 22 14:45	0°€			16374 May 25 20:25	0°Щ	
greatest brilliancy	16373 Jun 25 18:47	4°9544'55	-0.8m	morning max el	16374 May 26 19:52		18°12'59
morning set	16373 Jul 04 21:47	18° © 48'01		desc. node	16374 Jun 08 09:08	18° Ⅱ 09'43	

morning set	16374 Jun 15 06:16 16374 Jun 15 19:11	29° Ⅱ 08'17 0°໑			16375 Jun 08 10:16	0°©	
		v –		superior conj	16375 Jun 10 07:29	3° 5 01'33	-1°43'05
superior conj	16374 Jun 30 11:53	23° © 14'32	-2°07'30	minimum elong	16375 Jun 09 22:55	2° 5 27'18	1°42'55
minimum elong	16374 Jun 30 05:55	22° 9 51'15	2°07'52	max. Earth dist.	16375 Jun 15 00:11	10°528'36	1.45422 AU
max. Earth dist.	16374 Jul 02 04:30	25° © 53'02	1.46000 AU	evening rise	16375 Jun 26 03:14	27°5643'06	
	16374 Jul 04 19:55	$0^{\circ}\Omega$		S	16375 Jun 27 15:06	$0^{\circ}\Omega$	
evening rise	16374 Jul 16 14:25	18° Ω 16'52		greatest brilliancy	16375 Jul 10 22:31	19° Ω 52'35	-0.6m
C	16374 Jul 24 04:15	o∘ mp		· ·	16375 Jul 18 07:35	0° m	
greatest brilliancy	16374 Jul 27 13:26	5° m)09'18	-0.7m	asc. node	16375 Jul 20 14:45	2° m 47'50	
asc. node	16374 Aug 02 17:58	14° m)09'01		evening max el	16375 Jul 23 01:34	5° m 26'47	19°58'52
evening max el	16374 Aug 08 20:34	21° m/32'46	19°04'46	retrograde	16375 Jul 30 15:39	9° m 43'48	
retrograde	16374 Aug 15 16:55	25° m 18'34		evening set	16375 Aug 03 13:34	8° m) 15'41	
evening set	16374 Aug 19 04:34	24° m) 08'15		inferior conj	16375 Aug 08 20:37	2° m 15'46	3°00'27
inferior conj	16374 Aug 24 16:01	18° m 20'28	2°40'51	minimum elong	16375 Aug 08 21:45	2° m/11'55	2°59'58
minimum elong	16374 Aug 24 17:56	18° m) 14'16	2°40'18	min. Earth dist.	16375 Aug 09 20:03	0° m 56′29	0.68104 AU
min. Earth dist.	16374 Aug 26 05:15	16° Mp 20'44	0.66862 AU		16375 Aug 10 13:01	30°R Ω	
morning rise	16374 Aug 30 06:33	11° m) 53'24		morning rise	16375 Aug 14 05:31	25°Ω50'08	
desc. node	16374 Sep 04 07:07	9° m/22'22		direct	16375 Aug 19 20:48	23° Ω 22'43	
direct	16374 Sep 05 08:34	9° m 17'58		desc. node	16375 Aug 22 04:27	23° Ω 44'09	
morning max el	16374 Sep 18 01:02	16° m 50'49	26°02'22		16375 Aug 31 03:48	0° m/	
	16374 Sep 29 00:30	0∘ ⊽		morning max el	16375 Aug 31 12:08	0° m 20'54	24°39'53
	16374 Oct 18 11:34	0°M		morning mun vi	16375 Sep 22 21:33	0° ⊽	2.0,00
morning set	16374 Oct 23 23:23	9°M49'13		morning set	16375 Oct 06 03:16	ა — 21° Ω 42'11	
max. Earth dist.	16374 Oct 27 16:32	16°M50'01	1.35195 AU	max. Earth dist.	16375 Oct 09 16:23	28° ♀ 01'34	1.37448 AU
asc. node	16374 Oct 29 19:03	20°M56'32	1.55175710	max. Earth dist.	16375 Oct 10 18:19	0°M.	1.57110710
use. Houe	10371 000 25 15.03	20 1103032			10373 000 10 10.13	0 110	
superior conj	16374 Nov 02 07:37	28°M01'15	0°31'32	superior conj	16375 Oct 16 16:40	11°ML13'03	0°00'19
minimum elong	16374 Nov 02 05:55	27°M52'36	0°31'45	minimum elong	16375 Oct 16 16:37	11° M .12'49	0°00'41
	16374 Nov 03 06:48	0° ∡ 7		behind sun begin	16375 Oct 16 09:57	10°M40'28	
evening rise	16374 Nov 09 22:42	13° ∡ ′51'54		behind sun end	16375 Oct 16 23:17	11° M 45'15	
C	16374 Nov 18 04:17	0°ჳ		asc. node	16375 Oct 16 15:50	11° M .08'59	
evening max el	16374 Nov 28 12:08	14° る 32'19	20°34'30	evening rise	16375 Oct 25 02:30	27°M58'11	
desc. node	16374 Dec 01 04:50	16° る 53'56			16375 Oct 26 02:51	0° ⊼	
retrograde	16374 Dec 09 15:18	20° る 04'06		evening max el	16375 Nov 10 23:11	25° х 43′15	19°23'54
evening set	16374 Dec 12 00:55	19° る 49'50		C	16375 Nov 17 09:57	8°0	
inferior conj	16374 Dec 20 19:53	15° る 56'27	-5°23'52	desc. node	16375 Nov 18 01:56	0° る 11'18	
minimum elong	16374 Dec 20 10:59	16° る 09'22	5°21'27	retrograde	16375 Nov 20 11:12	0° る 28'51	
min. Earth dist.	16374 Dec 22 03:15	15° る 10'52	0.54576 AU	evening set	16375 Nov 22 09:31	0°る17'56	
morning rise	16374 Dec 28 20:48	11° る 58'54		Ü	16375 Nov 23 15:18	30°R. ✓	
direct	16375 Jan 02 09:03	11° る 15'07		inferior conj	16375 Nov 30 23:20	26° √ 10'41	-3°58'14
morning max el	16375 Jan 15 18:39	17° る 49'35	23°35'04	minimum elong	16375 Nov 30 13:58	26° ₹ 25'56	3°54'28
asc. node	16375 Jan 25 18:13	0°≈18'55		min. Earth dist.	16375 Dec 03 12:05	24° х 31'49	0.55637 AU
	16375 Jan 25 13:17	0° ≈ ≈		morning rise	16375 Dec 08 16:17	21° ∡ ⁴44'59	
morning set	16375 Feb 08 12:21	26°≈08'52		direct	16375 Dec 14 03:33	20° ∡ ³37'10	
8	16375 Feb 10 07:14	0° ∀		morning max el	16375 Dec 28 03:19	27° ∡ ¹41'23	25°22'36
				5 5	16375 Dec 30 09:51	0°ರ	
superior conj	16375 Feb 15 08:49	11° ¥ 01'45	1°27'12	asc. node	16376 Jan 12 15:25	18° る 34'44	
minimum elong	16375 Feb 15 10:41	11°) 11'51	1°27'18		16376 Jan 18 19:19	0° ≈	
max. Earth dist.	16375 Feb 18 06:50	17°) 16'46	1.32914 AU	morning set	16376 Jan 24 00:05	10° ≈ 47'53	
evening rise	16375 Feb 23 03:06	27° ¥ 14'50		C			
Č	16375 Feb 24 12:33	0° Ƴ		superior conj	16376 Jan 30 17:35	25° ≈ 37'29	1°35'44
desc. node	16375 Feb 27 05:10	5° Ƴ 09'39		minimum elong	16376 Jan 30 18:32	25° ≈ 42'43	1°36'07
	16375 Mar 14 01:49	0°B		max. Earth dist.	16376 Feb 01 08:53	29° ≈ 14'10	1.31752 AU
evening max el	16375 Mar 29 08:20	18° 8 55'51	27°25'35		16376 Feb 01 17:14	0°) €	
retrograde	16375 Apr 12 01:04	26° 8 29'08		evening rise	16376 Feb 06 23:00	11°) 11'12	
evening set	16375 Apr 18 18:17	24° 8 00'56		desc. node	16376 Feb 14 01:52	25°) (07'40	
min. Earth dist.	16375 Apr 22 13:45	20° 8 33'44	0.64453 AU		16376 Feb 16 18:47	0°Υ	
asc. node	16375 Apr 23 15:38	19° 8 25'13			16376 Mar 08 22:53	0°8	
inferior conj	16375 Apr 25 04:00	17° 8 46'57	0°28'13	evening max el	16376 Mar 10 19:08	1° 8 50'37	27°36'09
minimum elong	16375 Apr 25 03:13	17° 8 49'04	0°27'29	retrograde	16376 Mar 24 18:12	9° 8 19'59	_, 500)
morning rise	16375 May 01 14:19	12° 8 24'15	3 = 1 = 2	evening set	16376 Mar 31 13:29	7° 8 04'02	
direct	16375 May 04 04:56	11° 8 49'19		min. Earth dist.	16376 Apr 04 07:42		0.62347 AU
morning max el	16375 May 10 12:41	15° 8 03'55	17°51'05	inferior conj	16376 Apr 07 07:54	1° 8 10'02	
morning max or	16375 May 10 12:41 16375 May 21 06:25	0°Ⅱ	1, 5105	minimum elong	16376 Apr 07 07:34 16376 Apr 07 09:20	1°806'36	
desc. node	16375 May 26 06:04	8° Ⅱ 15'45		ciong	16376 Apr 08 13:34	30°RΥ	0 .200
morning set	16375 May 27 18:00	10° Ⅱ 46'01		asc. node	16376 Apr 09 12:54	29° Y 07'40	
					г. 07 12.07	_, 10/10	

morning rise	16376 Apr 14 08:13	26°Υ°03'50		morning max el	16377 Apr 06 21:10		18°01'00
direct	16376 Apr 16 14:59	25° Y 39'56	17046146	. ,	16377 Apr 18 13:58	0°8	
morning max el	16376 Apr 23 06:13	29° Y 01'10	17°46'46	morning set	16377 Apr 22 10:57	7° 8 04'36	
	16376 Apr 24 05:04	0°8		desc. node	16377 Apr 28 23:45	19° 8 02'22	
morning set	16376 May 09 05:31	23° 8 30'36		aumariar aani	16277 May 02 16:26	250\227122	0920114
desc. node	16376 May 12 02:56	28° ႘ 34'49 0° Ⅱ		superior conj	16377 May 02 16:26 16377 May 02 13:51	25° 8 37'33 25° 8 26'15	
	16376 May 12 22:28	υц		minimum elong	16377 May 05 04:40	23 Ο 26 13	0 30 19
superior conj	16376 May 21 00:16	13° Ⅱ 47'45	1008'07	max. Earth dist.	16377 May 10 05:55	8° Д 33'00	1.42351 AU
minimum elong	16376 May 20 18:01	13° I I21'38		evening rise	16377 May 15 05:53	17° Ⅱ 29'37	1.42331 AU
max. Earth dist.	16376 May 27 17:00	24° I I45'48	1.44163 AU	evening rise	16377 May 13 17:33	0°95	
max. Lartii tist.	16376 May 30 23:55	0°95	1.44103710		16377 Jun 14 16:55	$0 {\circ} {\mathfrak O}$	
evening rise	16376 Jun 04 15:26	7°9515'10		evening max el	16377 Jun 17 18:22	3° Ω 16'50	22°23'41
evening rise	16376 Jun 19 21:28	0°Ω		asc. node	16377 Jun 23 08:30	7° Ω 44'55	22 23 11
evening max el	16376 Jul 05 00:31	19° Ω 21'31	21°06'27	retrograde	16377 Jun 27 12:06	8° Ω 58'29	
asc. node	16376 Jul 06 11:35	20°Ω44'20	21 002,	evening set	16377 Jul 02 08:29	6°Ω56'08	
retrograde	16376 Jul 13 14:34	24°Ω18'43		inferior conj	16377 Jul 07 14:48	0° Ω 36'10	3°04'45
evening set	16376 Jul 17 23:26	22°Ω32'55		minimum elong	16377 Jul 07 14:04	0°Ω38'43	3°04'05
inferior conj	16376 Jul 23 04:53	16°Ω22'12	3°08'02	min. Earth dist.	16377 Jul 07 11:34	0°Ω47'26	0.69177 AU
minimum elong	16376 Jul 23 05:05	16° Ω 21'30	3°07'31		16377 Jul 08 01:11	30°Rூ	
min. Earth dist.	16376 Jul 23 14:52	15° Ω 47'33	0.68885 AU	morning rise	16377 Jul 12 19:30	24°9522'44	
morning rise	16376 Jul 28 10:28	10° Ω 01'33		direct	16377 Jul 17 10:48	22° 5 26'39	
direct	16376 Aug 02 13:57	7° Ω 47'53		desc. node	16377 Jul 25 22:58	27° © 09'28	
desc. node	16376 Aug 08 01:45	9° Ω 47'36		morning max el	16377 Jul 26 13:39	27°5945'26	21°44'08
morning max el	16376 Aug 12 23:24	13° Ω 58'38	23°10'53		16377 Jul 28 16:28	$0^{\circ}\Omega$	
C	16376 Aug 25 23:21	0° m)			16377 Aug 19 12:53	0° m/y	
	16376 Sep 14 19:01	0∘ <u>v</u>		morning set	16377 Aug 27 16:34	12° m 37'39	
morning set	16376 Sep 16 09:45	2° ჲ 39'38		max. Earth dist.	16377 Sep 02 19:05	22° m) 29'52	1.42173 AU
max. Earth dist.	16376 Sep 20 15:10	9° ≏ 48'07	1.39871 AU		16377 Sep 07 06:37	0∘ ⊽	
:	1/27/ 5 20 11:05	23° £ 44'31	0025115		16377 Sep 10 10:36	5° £ 26'38	1012117
superior conj minimum elong	16376 Sep 28 11:05 16376 Sep 28 13:46	23° £ 44 31 23° £ 56'51		superior conj minimum elong	16377 Sep 10 10.36 16377 Sep 10 16:33	5° £ 52'32	
minimum ciong	16376 Oct 01 19:39	0°M	0 34 33	asc. node	16377 Sep 10 10.33	21° £ 26'03	1 11 20
asc. node	16376 Oct 01 19:39	1°M 19'51		evening rise	16377 Sep 19 09:10 16377 Sep 21 08:19	25° £ 01'15	
evening rise	16376 Oct 02 12:53	11°M44'05		evening rise	16377 Sep 21 08:19	0°M	
evening rise	16376 Oct 18 01:30	0° √		evening max el	16377 Oct 07 08:18	20°M23'40	18°08'34
evening max el	16376 Oct 23 23:16	7° ∡ ¹43'00	18°35'39	retrograde	16377 Oct 14 10:15	24°M01'26	10 00 54
retrograde	16376 Nov 01 01:11	11° × ⁷ 48'37	10 33 37	evening set	16377 Oct 14 10:19	23°M41'19	
evening set	16376 Nov 02 23:46	11° × 35'13		desc. node	16377 Oct 21 20:19	20°M34'40	
desc. node	16376 Nov 03 23:06	11° × ⁷ 18'56		inferior conj	16377 Oct 23 20:18	18°M51'48	-0°38'24
inferior conj	16376 Nov 10 23:00	7° ∡ *07'19	-2°15'04	minimum elong	16377 Oct 23 18:57	18°M54'48	0°37'25
minimum elong	16376 Nov 10 17:35	7° ∡ 17'35		min. Earth dist.	16377 Oct 27 01:44	16°ML01'28	0.59587 AU
min. Earth dist.	16376 Nov 14 02:42	4° х 44′23		morning rise	16377 Oct 30 20:05	13°M15'31	,
morning rise	16376 Nov 18 08:09	2° ₹ 05'22		direct	16377 Nov 06 09:35	11° M 15'39	
direct	16376 Nov 24 12:04	0° ∡ ³30'51		morning max el	16377 Nov 20 16:00	19° M 00'06	27°44'35
morning max el	16376 Dec 08 17:26	7° ∡ ¹57'39	26°50'37	•	16377 Nov 29 23:59	0° ∡ ¹	
-	16376 Dec 25 06:03	ರ°0		asc. node	16377 Dec 16 09:37	26° ₹ 52'28	
asc. node	16376 Dec 29 12:33	7° る 29'21			16377 Dec 18 00:12	ರ°ರ	
morning set	16377 Jan 07 09:57	25° る 17'18		morning set	16377 Dec 22 16:08	9° る 32'27	
	16377 Jan 09 13:56	0° ≈		max. Earth dist.	16377 Dec 28 23:06	23° る 18'12	1.30997 AU
superior conj	16377 Jan 14 04:34	10° ≈ 16'04	1°38'11	superior conj	16377 Dec 29 15:53	24°る52'03	1°34'35
minimum elong	16377 Jan 14 04:27	10°≈15'28	1°38'43	minimum elong	16377 Dec 29 14:45	24° පි 45'46	1°35'09
max. Earth dist.	16377 Jan 14 15:30	11°≈17'17	1.31104 AU	minimum ciong	16377 Dec 25 14:43	0°≈	1 33 07
evening rise	16377 Jan 21 01:40	25°≈22'41	1.51104 A0	evening rise	16378 Jan 05 08:54	0 ~ 9° ≈ 43'48	
evening rise	16377 Jan 23 06:43	0° ∀		evening rise	16378 Jan 15 14:39	0°) €	
desc. node	16377 Jan 30 22:38	14°) 43'33		desc. node	16378 Jan 17 19:25	3°) 48′27	
acse. Hour	16377 Feb 09 10:06	0° Υ		evening max el	16378 Feb 02 23:47	25° H 21'48	26°14'53
evening max el	16377 Feb 09 10:00 16377 Feb 21 01:14	14° Υ 02'37	27°13'04	evening max ci	16378 Feb 02 23:47 16378 Feb 08 22:38	25 γ 21 46	20 1733
retrograde	16377 Mar 07 02:12	21° Y 21'54	2/ 13 UT	retrograde	16378 Feb 16 23:14	2° Υ 28'37	
evening set	16377 Mar 13 18:00	19° Y 25'18		evening set	16378 Feb 23 04:20	0° Υ 56'44	
min. Earth dist.	16377 Mar 17 15:31	16° Υ 41'26	0.60091 AU	croning set	16378 Feb 24 22:43	30°R ∺	
inferior conj	16377 Mar 17 13.31 16377 Mar 20 20:50	13° Υ 59'53		min. Earth dist.	16378 Feb 27 13:00	*	0.57889 AU
minimum elong	16377 Mar 20 20:30	13° Υ 49'55		inferior conj	16378 Mar 02 14:59	26°) €05'22	
asc. node	16377 Mar 27 10:10	9° Υ 34'50	2 0117	minimum elong	16378 Mar 02 23:15	25° H 50'24	
morning rise	16377 Mar 28 12:40	9° Υ 12'53		morning rise	16378 Mar 10 21:27	21°) 40'01	3 3 1 20
direct	16377 Mar 30 13:38	8°Υ56'25		direct	16378 Mar 12 20:26	21° H 27'21	
	100,, 11141 00 10.00	0 1 30 23			100,011101 12 20.20	/(2/21	

asc. node	16378 Mar 14 07:29	21°) 34′42		morning rise	16379 Feb 20 03:37	3°) 14′40	
morning max el	16378 Mar 21 05:38	25°) €35′12	18°35'20	direct	16379 Feb 22 07:33	3° ₩ 01'49	
	16378 Mar 24 23:42	0 ° $\mathbf{\gamma}$		asc. node	16379 Mar 01 04:48	5° ∺ 21'57	
morning set	16378 Apr 06 04:59	21° Ƴ 11'29		morning max el	16379 Mar 04 03:28	7°) 48′48	19°31'47
	16378 Apr 10 18:40	$0^{\circ}S$			16379 Mar 18 11:10	0° Υ	
				morning set	16379 Mar 21 07:34	5° Ƴ 39'16	
superior conj	16378 Apr 15 04:57	8° 8 21'44	0°05'29				
minimum elong	16378 Apr 15 05:18	8° 8 23'23	0°05'04	superior conj	16379 Mar 29 09:29	21° Ƴ 48'23	0°36'16
behind sun begin	16378 Apr 14 22:35	7° 8 52'10		minimum elong	16379 Mar 29 11:29	21° Y 58'09	0°35'44
behind sun end	16378 Apr 15 12:01	8° 8 54'32		desc. node	16379 Apr 02 17:17	0° 8 05'47	
desc. node	16378 Apr 15 20:31	9° 8 33'51			16379 Apr 02 16:03	9° 8	
max. Earth dist.	16378 Apr 22 14:24	21° 8 38'50	1.40174 AU	max. Earth dist.	16379 Apr 04 20:25	4° 8 02'48	1.37869 AU
evening rise	16378 Apr 26 17:01	28° 8 38'26		evening rise	16379 Apr 08 12:55	10° 8 39'58	
	16378 Apr 27 12:38	Π°			16379 Apr 20 06:14	$\Pi^{\circ}0$	
	16378 May 17 07:07	0 \circ \odot			16379 May 12 19:49	0 \circ \odot	
evening max el	16378 May 31 08:52	17° © 11'55	23°45'13	evening max el	16379 May 13 22:13	1° 5 06'43	25°04'26
asc. node	16378 Jun 10 05:30	23° © 31'26		retrograde	16379 May 25 22:05	8° © 05'35	
retrograde	16378 Jun 11 06:58	23°536'14		asc. node	16379 May 28 02:33	7° © 45'45	
evening set	16378 Jun 16 15:03	21° © 19'43		evening set	16379 May 31 17:27	5° © 38'43	
min. Earth dist.	16378 Jun 21 08:06	15°5648'33	0.68969 AU	min. Earth dist.	16379 Jun 05 02:24	0°544'39	0.68274 AU
inferior conj	16378 Jun 22 00:25	14°952'43	2°51'01		16379 Jun 05 16:02	30° Ŗ Ⅱ	
minimum elong	16378 Jun 21 22:53	14° © 57'59	2°50'07	inferior conj	16379 Jun 06 07:49	29° I 08'02	2°26'39
morning rise	16378 Jun 27 06:43	8° © 47'55		minimum elong	16379 Jun 06 05:44	29° Ⅱ 14'51	2°25'30
direct	16378 Jul 01 10:02	7° © 11'20		morning rise	16379 Jun 11 18:21	23° Ⅱ 12'56	
morning max el	16378 Jul 09 09:37	11°9542'31	20°26'19	direct	16379 Jun 15 10:15	21° II 55'55	
desc. node	16378 Jul 12 20:10	15° © 29'02		morning max el	16379 Jun 22 12:44	25° Ⅱ 49'40	19°21'51
4000. 11040	16378 Jul 23 14:39	0°Ω		morning man vi	16379 Jun 26 06:21	0ಂತ	1, 21, 01
morning set	16378 Aug 07 03:22	21° Ω 46'42		desc. node	16379 Jun 29 17:19	4°931'15	
morning set	16378 Aug 12 10:07	0° m)		greatest brilliancy	16379 Jul 05 05:05	12° © 22'19	-0.7m
max. Earth dist.	16378 Aug 16 05:40		1.44074 AU	greatest orimaney	16379 Jul 16 20:36	0°Ω	0.7111
max. Earth dist.	10378 Aug 10 03.40	0 100 00	1.440/4 AU	morning set	16379 Jul 17 07:58	0° Ω 43'41	
superior conj	16378 Aug 22 11:24	16° M p 11'02	10/15/10	max. Earth dist.	16379 Jul 29 21:32	20°Ω13'21	1.45385 AU
minimum elong	16378 Aug 22 11:24 16378 Aug 22 19:20	16° Mp 43'47		max. Earth dist.	103/9 Jul 29 21.32	20 661321	1.43363 AU
minimum ciong	16378 Aug 22 19.20 16378 Aug 30 16:13	0° ⊽	1 43 14	superior conj	16379 Aug 02 13:21	25° Ω 59'40	2000120
avanina riaa	-	0 ≗ 7° £ 37'33		minimum elong	•	25 δι 39 40 26° Ω 21'16	
evening rise asc. node	16378 Sep 04 02:00	11° £ 23'31		minimum elong	16379 Aug 02 18:48	0° m)	2 08 30
asc. node	16378 Sep 06 06:00 16378 Sep 17 20:00	0°M		avanina risa	16379 Aug 05 01:45 16379 Aug 16 22:35		
	•		10001110	evening rise	· ·	19° ™ 18'53 0° ₽	
evening max el	16378 Sep 20 22:07	3°M35'22	18°01'10	1	16379 Aug 23 10:10		
retrograde	16378 Sep 27 10:42	6°M58'40		asc. node	16379 Aug 24 02:43	1° 2 07'18	10012015
evening set	16378 Sep 29 22:38	6°M28'10	0040156	evening max el	16379 Sep 04 13:02	17° £ 08'35	18°12'15
inferior conj	16378 Oct 06 12:25	1°M19'24		retrograde	16379 Sep 10 21:46	20° £ 30′22	
minimum elong	16378 Oct 06 13:36	1°M16'23	0°40'46	evening set	16379 Sep 13 18:25	19° ≏ 46'13	1040150
1 1	16378 Oct 07 19:32	30° ₹ Ω		inferior conj	16379 Sep 19 19:17	14° £ 20'56	1°40'59
desc. node	16378 Oct 08 17:34	29° £ 04'21	0.61000 ATT	minimum elong	16379 Sep 19 21:30	14° £ 14'39	1°40'23
min. Earth dist.	16378 Oct 09 10:57	28° £ 21'33	0.61880 AU	min. Earth dist.	16379 Sep 22 06:15	11° ≏ 34'26	0.64058 AU
morning rise	16378 Oct 13 01:54	25° £ 17'07		morning rise	16379 Sep 25 22:45	8° £ 02'40	
direct	16378 Oct 19 18:25	22° £ 56'40		desc. node	16379 Sep 25 14:53	8° ≙ 18'22	
	16378 Nov 01 23:55	0°M	25050101	direct	16379 Oct 02 12:53	5° £ 29'21	2502 (11.0
morning max el	16378 Nov 02 21:46	0°M52'56	27°59'01	morning max el	16379 Oct 16 07:43	13° £ 27'29	27°36'10
_	16378 Nov 24 04:24	0° ∡ 7			16379 Oct 29 16:38	0° M ₊	
asc. node	16378 Dec 03 06:38	16° ∡ 36′21			16379 Nov 16 18:14	0° ∡ ¹	
morning set	16378 Dec 06 16:35	23° × ⁷ 28'49		morning set	16379 Nov 20 08:47	7° ∡ 100'00	
	16378 Dec 09 18:57	0°ප		asc. node	16379 Nov 20 03:35	6° ∡ ³34'11	
max. Earth dist.	16378 Dec 12 03:46	5° る 07'50	1.31449 AU	max. Earth dist.	16379 Nov 25 01:34	16° ≯ 37'43	1.32477 AU
superior conj	16378 Dec 14 01:41	9° る 20'41	1°24'55	superior conj	16379 Nov 28 07:54		1°09'04
minimum elong	16378 Dec 13 23:45	9° る 09'59	1°25'22	minimum elong	16379 Nov 28 05:33	23° ≮ ¹23'20	1°09'22
evening rise	16378 Dec 20 18:51	24° る 10'13			16379 Dec 01 06:28	0°₹	
	16378 Dec 23 12:36	0° ≈		evening rise	16379 Dec 05 05:37	8° る 36'56	
desc. node	16379 Jan 04 16:16	22° ≈ 11′09			16379 Dec 16 04:13	0° ≈	
	16379 Jan 10 06:55	0°)		desc. node	16379 Dec 22 13:11	9° ≈ 35'51	
evening max el	16379 Jan 15 13:49	5°) 49′55	24°47'20	evening max el	16379 Dec 27 23:15	15° ≈ 47′08	23°04'36
retrograde	16379 Jan 29 07:54	12°) (42′24		retrograde	16380 Jan 10 03:18	22° ≈ 17'49	
evening set	16379 Feb 03 17:11	11°) 38′02		evening set	16380 Jan 14 08:04	21° ≈ 39'35	
min. Earth dist.	16379 Feb 09 01:55	8° ¥ 50′27	0.56010 AU	min. Earth dist.	16380 Jan 21 09:25	18° ≈ 22'58	0.54758 AU
inferior conj	16379 Feb 11 11:56	7° ₩ 19'05	-5°02'12	inferior conj	16380 Jan 22 13:25	17° ≈ 42'54	-5°55'41
minimum elong	16379 Feb 11 21:12	7°) €04'27	4°59'40	minimum elong	16380 Jan 22 17:32	17° ≈ 37'00	5°54'52
=				-			

morning rise	16380 Jan 31 04:17	13° ≈ 52'33		minimum elong	16380 Dec 31 23:12	27° る 43'54	5°51'59
direct	16380 Feb 03 00:13	13° ≈ 33'41		min. Earth dist.	16381 Jan 01 14:40	27° る 22'11	0.54375 AU
morning max el	16380 Feb 14 10:52	19° ≈ 05'47	20°51'33	morning rise	16381 Jan 09 10:40	23° る 47'04	
asc. node	16380 Feb 16 02:06	20° ≈ 46'58		direct	16381 Jan 13 08:08	23° る 14'09	
	16380 Feb 22 21:11	0° ∀		morning max el	16381 Jan 26 03:38	29° る 28'12	22021152
mamina aat	16380 Mar 04 15:33	0 X 20° X 18'15		morning max ci		0° ≈	22 31 32
morning set		20 Υ 1813		1	16381 Jan 26 16:42		
	16380 Mar 09 07:05	Ossys		asc. node	16381 Feb 01 23:23	7°≈32'14	
					16381 Feb 14 16:54	0° ∀	
superior conj	16380 Mar 12 01:52	5° Y 45'13		morning set	16381 Feb 17 02:32	5° ∺ 01'38	
minimum elong	16380 Mar 12 04:24	5° Y 58'08	1°00'39				
max. Earth dist.	16380 Mar 17 04:34	15° Ƴ 58'35	1.35680 AU	superior conj	16381 Feb 24 02:41	20° 米 02'51	1°19'28
desc. node	16380 Mar 19 14:01	20° Ƴ 33'53		minimum elong	16381 Feb 24 04:56	20° ∺ 14'51	1°19'22
evening rise	16380 Mar 21 02:37	23° Y ′25′08		max. Earth dist.	16381 Feb 27 19:19	27° ¥ 47'10	1.33805 AU
	16380 Mar 24 17:50	0°B			16381 Feb 28 21:17	0° Υ	
	16380 Apr 12 22:18	$\Pi^{\circ}0$		evening rise	16381 Mar 04 06:34	6° Ƴ 44'16	
evening max el	16380 Apr 25 11:51	14° Ⅱ 57'53	26°14'05	desc. node	16381 Mar 06 10:42	10° Ƴ 54'07	
retrograde	16380 May 08 08:23	22° I 19'14	20 1.00	desc. node	16381 Mar 17 09:32	0°8	
asc. node	16380 May 13 23:40	20° Ⅱ 15'15		evening max el	16381 Apr 08 01:41	28° 8 36'46	27006125
		20 Ⅲ 13 13 19° Ⅲ 47'06		evening max er		0°Ⅱ	27 00 23
evening set	16380 May 14 13:57		0.67111.411		16381 Apr 09 13:13		
min. Earth dist.	16380 May 18 16:28	15° Ⅱ 28'45	0.67111 AU	retrograde	16381 Apr 21 12:40	6°Ⅱ08'04	
inferior conj	16380 May 20 10:55	13° Ⅱ 17'41	1°50'50	evening set	16381 Apr 28 02:28	3° Ⅱ 36'46	
minimum elong	16380 May 20 08:46	13° Ⅱ 24'22	1°49'35	asc. node	16381 Apr 30 20:50	1° Ⅱ 04'58	
morning rise	16380 May 26 04:26	7° Ⅱ 33'32			16381 May 01 21:07	30° ₹႘	
direct	16380 May 29 09:47	6° Ⅲ 34'43		min. Earth dist.	16381 May 02 00:05	29° 8 51'50	0.65526 AU
morning max el	16380 Jun 04 22:39	10° Ⅲ 03′27	18°33'15	inferior conj	16381 May 04 07:19	27° 8 15'04	1°02'23
desc. node	16380 Jun 15 14:25	24° Ⅱ 05'01		minimum elong	16381 May 04 05:45	27° 8 19'30	1°01'18
	16380 Jun 19 10:59	0°©		morning rise	16381 May 10 10:39	21° 8 43'42	
morning set	16380 Jun 26 02:18	10° © 22'59		direct	16381 May 13 06:25	21° 8 00'46	
3	16380 Jul 08 15:22	$0^{\circ}\Omega$		morning max el	16381 May 19 13:36	24° 8 16'58	18°01'31
max. Earth dist.	16380 Jul 11 16:51		1.45992 AU	morning man er	16381 May 24 08:26	0°II	10 0101
max. Earth dist.	10300 341 11 10.31	4 66 40 10	1.43//2/10	desc. node	16381 Jun 02 11:25	14° I [01'16	
superior conj	16380 Jul 12 00:25	5° Ω 15'47	2012146	morning set	16381 Jun 06 22:30	21° I 16'56	
				morning set		0°95	
minimum elong	16380 Jul 11 22:31	5°Ω08'23	2-14-19		16381 Jun 12 07:28	0-99	
evening rise	16380 Jul 27 18:11	29° Ω 57'08			1/201 7 01 10 10		1050155
	16380 Jul 27 18:55	0° m		superior conj	16381 Jun 21 12:10	14° © 39'12	
greatest brilliancy	16380 Aug 04 14:21	12° m 19'09	-0.8m	minimum elong	16381 Jun 21 04:20	14° © 08'20	
asc. node	16380 Aug 09 23:28	20° Mp 32'04		max. Earth dist.	16381 Jun 24 13:30	19° © 26'49	1.45846 AU
	16380 Aug 17 04:26	0∘ ⊽			16381 Jul 01 08:25	0 \circ Ω	
evening max el	16380 Aug 18 01:57	0° ჲ 55'28	18°40'50	evening rise	16381 Jul 07 15:07	9° Ω 40'55	
retrograde	16380 Aug 24 15:38	4° ≏ 28'38		greatest brilliancy	16381 Jul 20 14:01	29° Ω 20'12	-0.7m
evening set	16380 Aug 27 21:39	3° ഫ 28'22			16381 Jul 21 00:50	0° m y	
	16380 Aug 31 17:17	30°₽,₩)		asc. node	16381 Jul 27 20:14	9° m 30'11	
inferior conj	16380 Sep 02 13:03	27° Mp 48'32	2°23'24	evening max el	16381 Aug 01 10:22	14° m 48'34	19°25'57
minimum elong	16380 Sep 02 15:16	27° m 41'40	2°22'47	retrograde	16381 Aug 08 13:12	18° m 45'48	
min. Earth dist.	16380 Sep 04 10:26	25° m/28'30		evening set	16381 Aug 12 05:14	17° m 27'53	
morning rise	16380 Sep 08 07:49	21° m/22'55		inferior conj	16381 Aug 17 14:28	11° m) 34'57	2°50'42
desc. node	16380 Sep 11 12:13	19° m) 23'07		minimum elong	16381 Aug 17 16:05	11° m) 29'35	2°50'11
direct	16380 Sep 14 15:17	18° m) 45'39		min. Earth dist.	16381 Aug 18 21:48	9° m 51'45	0.67455 AU
morning max el	16380 Sep 27 19:05	26° m/31'47	26°43'01	morning rise	•	5° m) 08'13	0.07433710
morning max ci	16380 Sep 27 19.03 16380 Oct 01 00:41	20 ily314/ 0° <u>Ω</u>	20 73 U1	•	16381 Aug 23 02:22	~	
				direct	16381 Aug 29 00:07	2° m/35'21	
	16380 Oct 22 06:53	0°M		desc. node	16381 Aug 29 09:33	2° M) 35'58	25020122
morning set	16380 Nov 02 13:48	19° ™ 59'36		morning max el	16381 Sep 10 06:17	9° m 54'24	25°28'33
asc. node	16380 Nov 06 00:29	26°M41'11			16381 Sep 26 05:03	0∘ ⊽	
max. Earth dist.	16380 Nov 06 13:56	27° M 48'02	1.34064 AU		16381 Oct 14 20:58	0° M	
	16380 Nov 07 16:13	0° ∡ ¹		morning set	16381 Oct 16 03:58	2° M .18′56	
				max. Earth dist.	16381 Oct 19 17:25	8°M52'38	1.36125 AU
superior conj	16380 Nov 11 08:15	7° ∡ ³32'42	0°47'00	asc. node	16381 Oct 23 21:18	16°M52'36	
minimum elong	16380 Nov 11 06:04	7° ∡ "21′20	0°47'12				
evening rise	16380 Nov 18 15:24	23° ∡ ′00′05		superior conj	16381 Oct 25 23:50	21°ML03'02	0°18'56
Ç	16380 Nov 22 00:25	0°ප		minimum elong	16381 Oct 25 22:42	20°M57'23	0°19'11
desc. node	16380 Dec 08 10:09	25° ප් 43'00		<i>G</i>	16381 Oct 30 09:34	0° ⊼ ¹	
evening max el	16380 Dec 08 13:13	25° る 50'35	21°24'49	evening rise	16381 Nov 02 22:03	7° ∡ 14'10	
2. J	16380 Dec 13 23:30	0° ≈	2. 21 12	0.0mig 1100	16381 Nov 15 08:44	0°る	
retrograde	16380 Dec 13 23:30 16380 Dec 20 13:13	0 ∞ 1°≈46'24		evening max el	16381 Nov 20 15:45	6° る 32'10	20°01'40
•				desc. node		10°る3210	20 01 4 0
evening set	16380 Dec 23 12:07	1°≈26'23			16381 Nov 25 07:11		
	16380 Dec 27 15:17	30°Rる	5052107	retrograde	16381 Dec 01 01:48	11° る 43'51	
inferior conj	16381 Jan 01 04:25	27° る 36'35	-5~5 <i>5</i> '0/	evening set	16381 Dec 03 05:06	11° る 31'45	

inferior conj	16381 Dec 11 23:23	7° る 33'35	-4°51'37	evening max el	16382 Nov 03 08:39	18° ∡ '03'53	19°00'33
minimum elong	16381 Dec 11 13:25	7° る 48'39	4°48'19	retrograde	16382 Nov 12 05:11	22° × 731'40	1, 0033
min. Earth dist.	16381 Dec 13 20:49	6° ට 24'55	0.54929 AU	desc. node	16382 Nov 12 04:18	22° х 31'40	
morning rise	16381 Dec 19 20:46	3° ට 26'15		evening set	16382 Nov 14 02:33	22° ∡ ¹20'17	
direct	16381 Dec 24 19:43	2° ට 32'45		inferior conj	16382 Nov 22 10:51	18° ∡ °04'16	-3°14'50
morning max el	16382 Jan 07 12:18	9° ට 20'05	24°22'05	minimum elong	16382 Nov 22 02:56	18° ∡ 18'01	3°11'17
asc. node	16382 Jan 19 20:37	25° ට 19'47		min. Earth dist.	16382 Nov 25 07:33	16° ∡ °05′14	0.56318 AU
	16382 Jan 22 14:53	0° ≈		morning rise	16382 Nov 30 00:37	13° ∡ ¹23'27	
morning set	16382 Feb 01 14:32	19° ≈ 44'12		direct	16382 Dec 05 19:34	12° ∡ *04'45	
	16382 Feb 06 07:18	0°) €		morning max el	16382 Dec 19 22:44	19° ∡ 18'59	26°03'40
					16382 Dec 28 23:29	ರ∘ರ	
superior conj	16382 Feb 08 09:13	4°) 34′06	1°31'34	asc. node	16383 Jan 06 17:48	13° る 53'33	
minimum elong	16382 Feb 08 10:43	4°) 42′20	1°31'48		16383 Jan 15 00:50	0° ≈	
max. Earth dist.	16382 Feb 10 17:54	9°) 42′01	1.32360 AU	morning set	16383 Jan 17 01:42	4° ≈ 19'53	
evening rise	16382 Feb 15 21:29	20° ¥ 29′21					
	16382 Feb 20 18:08	0° Y		superior conj	16383 Jan 23 19:09	19° ≈ 11'36	1°37'30
desc. node	16382 Feb 21 07:24	1° Y 02'08		minimum elong	16383 Jan 23 19:39	19° ≈ 14'25	1°37'59
	16382 Mar 11 09:22	9° 8		max. Earth dist.	16383 Jan 24 22:23	21° ≈ 43′03	1.31408 AU
evening max el	16382 Mar 21 14:15	11° 8 51'46	27°34'00		16383 Jan 28 17:11	0°) €	
retrograde	16382 Apr 04 09:57	19° 8 23'25		evening rise	16383 Jan 30 20:31	4°) € 32'32	
evening set	16382 Apr 11 04:44	16° 8 59'38		desc. node	16383 Feb 08 04:06	20° 米 51'31	
min. Earth dist.	16382 Apr 14 23:21	13° 8 44'13	0.63587 AU		16383 Feb 13 10:37	0° Y	
inferior conj	16382 Apr 17 18:11	10° 8 53'25	0°00'07	evening max el	16383 Mar 03 23:11	24° Y 28'50	27°30'36
minimum elong	16382 Apr 17 18:12	10° 8 53'24	0°00'16		16383 Mar 11 05:23	0 \circ 8	
transit middle	16382 Apr 17 18:12	10° 8 53'24	0°00'16	retrograde	16383 Mar 17 23:13	1° 8 54'33	
transit begin	16382 Apr 17 15:02	11° 8 01'31			16383 Mar 24 08:38	30° ŖƳ	
transit end	16382 Apr 17 21:21	10° 8 45'19		evening set	16383 Mar 24 18:03	29° Ƴ 45'40	
asc. node	16382 Apr 17 18:03	10° 8 53'47		min. Earth dist.	16383 Mar 28 12:48	26° Y 53′12	0.61397 AU
morning rise	16382 Apr 24 10:08	5° 8 37'16		inferior conj	16383 Mar 31 16:08	24° Y ′03′05	
direct	16382 Apr 26 21:22	5° 8 07'18		minimum elong	16383 Mar 31 18:51	23° Y 56′53	1°15'28
morning max el	16382 May 03 07:05	8° 8 23'03	17°47'07	asc. node	16383 Apr 04 15:19	20° Y 46'49	
	16382 May 17 20:52	Π °0		morning rise	16383 Apr 07 22:59	19° Ƴ 05'01	
morning set	16382 May 19 21:06	3° Ⅱ 25'45		direct	16383 Apr 10 03:03	18° Ƴ 44'41	
desc. node	16382 May 20 08:21	4° Ⅱ 13'46		morning max el	16383 Apr 16 23:59	22° Y 11'45	17°50'34
					16383 Apr 23 01:25	0° S	
superior conj	16382 Jun 01 16:02	24° Ⅱ 49'40		morning set	16383 May 02 16:53	16° 8 32'53	
minimum elong	16382 Jun 01 08:04	24° Ⅱ 17'15	1°28'48	desc. node	16383 May 07 05:12	24° 8 36'43	
	16382 Jun 04 20:55	0°€			16383 May 10 06:40	Π $^{\circ}$ 0	
max. Earth dist.	16382 Jun 07 08:52		1.44969 AU			—	
evening rise	16382 Jun 17 01:39	19° © 04'53		superior conj	16383 May 13 18:54	6°Ⅱ03'20	
	16382 Jun 24 06:49	0°Ω		minimum elong	16383 May 13 14:13	5° Ⅱ 43'21	
asc. node	16382 Jul 14 17:01	27° Ω 52'36	2002402	max. Earth dist.	16383 May 21 00:07	18° Ⅱ 04'32	1.43447 AU
evening max el	16382 Jul 15 12:50	28° Ω 43'21	20°26'02	evening rise	16383 May 27 18:26	28° Ⅱ 50'59	
. 1	16382 Jul 16 21:23	0°M)			16383 May 28 12:08	0° ©	
retrograde	16382 Jul 23 12:16	3° Mp 16'16			16383 Jun 17 23:12	0°Ω	21020121
evening set	16382 Jul 27 14:52	1° Mp 40'19		evening max el	16383 Jun 28 09:18		21°38'21
inforior coni	16382 Jul 29 09:34 16382 Aug 01 20:54	30°R Ω 25° Ω 35'29	3°05'02	asc. node retrograde	16383 Jul 01 13:53	15° Ω 27'07 17° Ω 54'01	
inferior conj minimum elong	16382 Aug 01 20:34 16382 Aug 01 21:39	$25^{\circ} \Omega 32'55$	3°04'33	evening set	16383 Jul 07 10:55 16383 Jul 12 00:38	$16^{\circ}\Omega00'50$	
min. Earth dist.	16382 Aug 01 21:39 16382 Aug 02 14:28	$23^{\circ} \Omega 32^{\circ} 33^{\circ}$ $24^{\circ} \Omega 35' 12$		inferior conj	16383 Jul 17 06:08	9° Ω 45'41	3°07'57
morning rise	16382 Aug 07 04:07	$19^{\circ}\Omega 11'50$	0.06303 AU	minimum elong	16383 Jul 17 05:56	9° Ω 46'24	3°07'23
direct	16382 Aug 17 04:07	19 δ (11 30 16° Ω 49'57		min. Earth dist.	16383 Jul 17 10:24	9° Ω 30'48	0.69064 AU
desc. node	16382 Aug 16 06:52	10° Ω 44'00		morning rise	16383 Jul 22 11:02	3° Ω 27'49	0.09004 AC
morning max el	16382 Aug 23 17:22	23°Ω28'30	24°02'16	direct	16383 Jul 27 09:13	1° Ω 21'32	
morning max ci	16382 Aug 29 12:22	0° m	24 02 10	desc. node	16383 Aug 03 04:09	4°Ω23'25	
	16382 Sep 19 13:37	0∘ ⊽		morning max el	16383 Aug 06 05:45	7°Ω10'40	22°33'20
morning set	16382 Sep 27 23:13	0 — 13° ≏ 49'13		morning max ci	16383 Aug 23 23:26	0° m)	22 33 20
max. Earth dist.	16382 Oct 01 16:30	20° £ 17'56	1.38483 AU	morning set	16383 Sep 08 19:52	24° m) 22'27	
Zurur dist.	16382 Oct 07 10:30	0°M	1.50.05710		16383 Sep 08 17:52 16383 Sep 12 05:52	0° ت	
	10002 000 07 00.20	○ IIW		max. Earth dist.	16383 Sep 12 03:32 16383 Sep 13 17:01	2° ユ 27'23	1.40878 AU
superior conj	16382 Oct 09 03:10	3°M.58'44	-0°14'24	Zartii dist.	10000 обр 10 17.01		107071
minimum elong	16382 Oct 09 04:10	4°M03'26		superior conj	16383 Sep 21 14:09	16° ≏ 10'40	-0°51'01
behind sun begin	16382 Oct 09 00:33	3°M46'19	J 15 57	minimum elong	16383 Sep 21 14:09	16° ⊆ 28'57	
behind sun end	16382 Oct 09 07:46	4°M20'34		asc. node	16383 Sep 27 14:48	27° 2 14'19	3 53 1 1
asc. node	16382 Oct 10 18:04	7°M04'46		200. 11040	16383 Sep 27 14:48 16383 Sep 29 02:09	0°M	
evening rise	16382 Oct 17 23:08	21°M12'59		evening rise	16383 Oct 01 15:27	4°M48'38	
	16382 Oct 22 11:47	0°×7		3.0	16383 Oct 17 04:13	0° ∡ ⊓	
	OC 22 11.77	- ••			500 17 01.15		

evening max el	16383 Oct 17 13:05	0° ∡ ¹22'42	18°21'36	asc. node	16384 Sep 13 11:31	17° ≏ 17'06	
retrograde	16383 Oct 25 03:45	4° ∡ °15′09		evening rise	16384 Sep 13 18:49	17° ≏ 49'48	
evening set	16383 Oct 27 04:09	3° ∡ 759'31			16384 Sep 20 16:12	0° M	
desc. node	16383 Oct 30 01:30	2° ∡ ¹47'41		evening max el	16384 Sep 30 00:45	13° ™ 18'14	18°03'10
	16383 Nov 03 01:24	30°RM		retrograde	16384 Oct 06 19:45	16° ™ 48′00	
inferior conj	16383 Nov 03 20:02	29° ™ 22'27		evening set	16384 Oct 09 03:07	16°M23'54	
minimum elong	16383 Nov 03 16:29	29°M29'40	1°30'25	desc. node	16384 Oct 15 22:45	11°M33'29	
min. Earth dist.	16383 Nov 07 01:53	26°M45'13	0.58298 AU	inferior conj	16384 Oct 16 01:50	11°M26'14	
morning rise	16383 Nov 11 01:19	24°M04'46		minimum elong	16384 Oct 16 01:46	11°M26'24	0°02'02
direct	16383 Nov 17 10:01	22°M18'58	27010114	transit middle	16384 Oct 16 01:46	11°M26'24	0°02'02
morning max el	16383 Dec 01 16:42 16383 Dec 01 18:49	29° IL 54'49 0° ∡ 7	27°18'14	transit begin transit end	16384 Oct 15 22:30 16384 Oct 16 05:02	11°M34'04	
	16383 Dec 01 18:49 16383 Dec 22 23:34	0° ਨ		min. Earth dist.	16384 Oct 19 05:18	11°M18'42 8°M30'01	0.60566 AU
asc. node	16383 Dec 24 14:55	3° る 01'32		morning rise	16384 Oct 22 21:17	5°M37'47	0.00300 AU
morning set	16384 Jan 01 10:15	3 301 32 18°る44'06		direct	16384 Oct 22 21:17 16384 Oct 29 13:00	3°M27'57	
morning set	16384 Jan 06 13:27	0°≈		morning max el	16384 Nov 12 18:30	11°M 18'42	27°55'23
	10304 3411 00 13.27	0 /01		morning max ci	16384 Nov 27 11:00	0° √	27 33 23
superior conj	16384 Jan 08 06:32	3° ≈ 50'01	1°37'23	asc. node	16384 Dec 10 11:59	22° х 34'06	
minimum elong	16384 Jan 08 05:59	3°≈46'56	1°37'58	use. Hode	16384 Dec 14 05:12	0°る。	
max. Earth dist.	16384 Jan 08 05:46	3° ≈ 45'45	1.30988 AU	morning set	16384 Dec 15 14:16	。3 2° る 51'42	
evening rise	16384 Jan 15 01:23	18° ≈ 48'37	1.50,00110	max. Earth dist.	16384 Dec 21 12:25	15° る 41'50	1.31121 AU
	16384 Jan 20 12:08	0° ₩					
desc. node	16384 Jan 26 00:52	10° ¥ 15'14		superior conj	16384 Dec 22 17:28	18° る 23'35	1°31'14
	16384 Feb 08 07:16	0° Υ		minimum elong	16384 Dec 22 15:58	18° る 15'13	1°31'46
evening max el	16384 Feb 14 02:07	6° Y 18′02	26°52'22	Č	16384 Dec 27 22:42	0° ≈	
retrograde	16384 Feb 28 03:09	13° Y '33'10		evening rise	16384 Dec 29 10:01	3°≈12'26	
evening set	16384 Mar 05 15:16	11° Y 46'21		desc. node	16385 Jan 11 21:42	29° ≈ 03'31	
min. Earth dist.	16384 Mar 09 16:09	9° Ƴ 06'44	0.59130 AU		16385 Jan 12 11:40	0°)	
inferior conj	16384 Mar 12 21:27	6° Ƴ 34'41	-2°44'29	evening max el	16385 Jan 25 21:07	17°) 14′51	25°40'37
minimum elong	16384 Mar 13 03:46	6° Y 22′12	2°42'06	retrograde	16385 Feb 08 19:19	24°) 15′56	
morning rise	16384 Mar 20 19:54	1° Y 57'01		evening set	16385 Feb 14 16:50	22° ¥ 55'58	
asc. node	16384 Mar 21 12:37	1° Y 48'46		min. Earth dist.	16385 Feb 19 10:04	20°) 15′54	0.57030 AU
direct	16384 Mar 22 19:16	1° Y 42'44		inferior conj	16385 Feb 22 06:46	18°) 18′56	-4°15'28
morning max el	16384 Mar 30 12:44	5° Ƴ 32'50	18°13'03	minimum elong	16385 Feb 22 15:59	18° 米 03′12	4°12'27
	16384 Apr 14 23:33	0° 8		morning rise	16385 Mar 02 18:06	14° ∺ 02'31	
morning set	16384 Apr 15 04:11	0° 8 21'48		direct	16385 Mar 04 17:55	13° ¥ 50′23	
desc. node	16384 Apr 23 02:00	15° 8 06'02		asc. node	16385 Mar 08 09:56	14°) 33′55	
				morning max el	16385 Mar 13 17:12	18° ¥ 14'20	18°56'30
superior conj	16384 Apr 24 20:11	18° 8 17'15			16385 Mar 22 06:21	0° Υ	
minimum elong	16384 Apr 24 19:00	18° 8 11'57	0°14'52	morning set	16385 Mar 30 02:20	14° Ƴ 38'57	
behind sun begin	16384 Apr 24 16:15	17° 8 59'33			16385 Apr 06 23:06	0°8	
behind sun end	16384 Apr 24 21:45	18° 8 24'20			16205 4 07 16 04	10400151	0010114
E d Ed	16384 May 01 12:42	0° Ц 1° Ц 32'08	1 41 450 411	superior conj	16385 Apr 07 16:04	1° 8 20'51 1° 8 26'35	0°19'14 0°18'44
max. Earth dist. evening rise	16384 May 02 10:26 16384 May 07 05:15	9° П 27'22	1.41450 AU	minimum elong desc. node	16385 Apr 07 17:16 16385 Apr 09 22:46	5° 8 38'08	0-18-44
evening rise	•	9 H 2722		max. Earth dist.	16385 Apr 14 17:20	14° 8 18'54	1.39193 AU
evening max el	16384 May 20 12:45 16384 Jun 10 01:21	0 932'02	22050110	evening rise	16385 Apr 18 13:34	21° 8 00'04	1.39193 AU
evening max er	16384 Jun 14 00:28	0°Ω	22 36 19	evening rise	16385 Apr 23 23:39	0°Ⅱ	
asc. node	16384 Jun 17 10:50	1° Ω 58'03			16385 May 14 13:37	0°©	
retrograde	16384 Jun 20 07:35	2°Ω33'07		evening max el	16385 May 23 15:19	10°528'02	24°19'45
evening set	16384 Jun 25 08:49	0° Ω 24'31		retrograde	16385 Jun 04 00:56	17° © 08'04	2. 15 .6
	16384 Jun 25 19:42	30°Rூ		asc. node	16385 Jun 04 07:50	17° © 07'43	
inferior conj	16384 Jun 30 16:10	24° © 01'04	3°00'13	evening set	16385 Jun 09 13:49	14°9546'54	
minimum elong	16384 Jun 30 15:04	24° © 04'53	2°59'28	min. Earth dist.	16385 Jun 14 03:19	9° © 31'25	0.68728 AU
min. Earth dist.	16384 Jun 30 07:24	24° © 31'30	0.69139 AU	inferior conj	16385 Jun 15 01:06	8° © 17'59	2°42'02
morning rise	16384 Jul 05 21:12	17° © 50'54		minimum elong	16385 Jun 14 23:18	8°\$24'05	2°41'02
direct	16384 Jul 10 07:18	16° © 02'58		morning rise	16385 Jun 20 08:51	2° © 16'57	
morning max el	16384 Jul 18 22:06	21° © 01'10	21°09'36	direct	16385 Jun 24 07:17	0° 5 48'33	
desc. node	16384 Jul 20 01:23	22° © 11'32		morning max el	16385 Jul 01 20:56	5° © 02'19	19°57'05
	16384 Jul 26 12:43	$0^{\circ}\Omega$		desc. node	16385 Jul 06 22:34	10°950'47	
	16384 Aug 16 04:12	0° m)			16385 Jul 20 10:46	0 $^{\circ}\Omega$	
morning set	16384 Aug 18 17:10	3° M 56'45		morning set	16385 Jul 28 23:01	12° Ω 54'10	
max. Earth dist.	16384 Aug 25 23:13	15° m 29'55	1.43036 AU	max. Earth dist.	16385 Aug 08 12:16	29° Ω 20'46	1.44715 AU
					16385 Aug 08 22:10	0° m	
superior conj	16384 Sep 02 04:22	27° m/28'50					
minimum elong	16384 Sep 02 11:29	27° m 59'07	1°26'31	superior conj	16385 Aug 13 19:10	7° m/48'45	
	16384 Sep 03 15:48	0∘ ⊽		minimum elong	16385 Aug 14 02:45	8° Mp 19'29	1°56'59

	16295 A 27 04:10	09 0 04104		Ed- di-4	1/29/ I-I 22 0/-25	120 🔿 4 411 1	1 45720 AII
evening rise	16385 Aug 27 04:10 16385 Aug 27 03:13	0° ჲ 04'04 0° ჲ		max. Earth dist.	16386 Jul 22 06:25	13°8(44'11	1.45738 AU
asc. node	16385 Aug 27 03:15	0 = 7° ₽ 09'13		superior conj	16386 Jul 24 13:09	17° Ω 18'33	-2°13'17
evening max el	16385 Sep 13 15:33	26° ₽ 40'26	18°03'42	minimum elong	16386 Jul 24 15:50	17° Ω 29'06	
evening man er	16385 Sep 19 14:08	0°M	10 03 .2	g	16386 Aug 01 13:38	0° m)	_ 13
retrograde	16385 Sep 20 01:09	0°M01'06		evening rise	16386 Aug 08 14:19	11° m) 18'34	
C	16385 Sep 20 12:11	30° Ŗ Ω		asc. node	16386 Aug 18 04:58	26° m/45'18	
evening set	16385 Sep 22 16:50	29° ≙ 24'59			16386 Aug 20 07:34	0∘ ⊽	
inferior conj	16385 Sep 29 00:43	24° ≏ 08'53	1°08'39	evening max el	16386 Aug 28 05:55	10° ≏ 19'49	18°22'17
minimum elong	16385 Sep 29 02:30	24° ≙ 04'07	1°08'14	retrograde	16386 Sep 03 15:37	13° ≏ 44'52	
min. Earth dist.	16385 Oct 01 18:41	21° ≙ 13'59	0.62840 AU	evening set	16386 Sep 06 16:14	12° ჲ 53'58	
desc. node	16385 Oct 02 20:01	20° ≏ 11'03		inferior conj	16386 Sep 12 12:37	7° ≏ 21'59	2°00'58
morning rise	16385 Oct 05 09:53	17° ≏ 58'58		minimum elong	16386 Sep 12 14:56	7° ≏ 15'08	2°00'21
direct	16385 Oct 12 02:09	15° ≏ 32'02		min. Earth dist.	16386 Sep 14 17:49	4° £ 45'30	0.64904 AU
morning max el	16385 Oct 26 02:11	23° Ω 29'34	27°53'25	morning rise	16386 Sep 18 12:12	0° Ω 59'44	
	16385 Oct 31 22:21	0° M ₊		desc. node	16386 Sep 19 17:19	0° ჲ 06'15	
	16385 Nov 20 18:36	0° ∡ 7			16386 Sep 19 21:11	30°R, Mp	
asc. node	16385 Nov 27 09:00	12° × ⁷ 24'20		direct	16386 Sep 24 23:49	28° m/24'01	
morning set	16385 Nov 29 11:32	16° ₹ 37'38	1 21022 411	·	16386 Sep 30 14:17	0° ⊡	25016154
max. Earth dist.	16385 Dec 04 14:36	27°メ23'32 0°る	1.31823 AU	morning max el	16386 Oct 08 13:07	6° മ 18'17 0° സ	2/°16'54
	16385 Dec 05 19:28	0.0			16386 Oct 26 18:30	0°11น 29°M\56'24	
superior conj	16385 Dec 07 02:02	2°る47'09	1°18'58	morning set	16386 Nov 12 23:25 16386 Nov 13 00:09	29°االـ36°24 0° الـ	
minimum elong	16385 Dec 06 23:52	2°る35'14	1°19'21	asc. node	16386 Nov 14 05:56	2° x ⁷ 26'40	
evening rise	16385 Dec 13 20:33	17°る39'33	1 1/21	max. Earth dist.	16386 Nov 17 08:57	8° x ⁷ 46'16	1.33089 AU
evening rise	16385 Dec 19 19:37	0°≈		max. Lartii dist.	10300 100 17 00.37	0 7 40 10	1.55007710
desc. node	16385 Dec 29 18:34	17° ≈ 03'21		superior conj	16386 Nov 21 06:05	16° ₹ ′55'23	1°00'29
evening max el	16386 Jan 07 08:34	27°≈26'35	24°04'24	minimum elong	16386 Nov 21 03:43	16° ⊀ 42'45	1°00'43
<i>y</i>	16386 Jan 10 07:35	0°) €			16386 Nov 27 07:41	5°0	
retrograde	16386 Jan 20 21:44	4°) 10′09		evening rise	16386 Nov 28 07:10	2° る 05'46	
evening set	16386 Jan 25 19:53	3°) 17'31		C	16386 Dec 13 13:57	0° ≈	
min. Earth dist.	16386 Jan 31 20:12	0°) 20′08	0.55388 AU	desc. node	16386 Dec 16 15:29	3° ≈ 58'04	
	16386 Feb 01 09:44	30° R ≈		evening max el	16386 Dec 19 18:36	7° ≈ 21'34	22°20'45
inferior conj	16386 Feb 02 18:51	29° ≈ 10′13	-5°30'22	retrograde	16387 Jan 01 12:12	13° ≈ 39′20	
minimum elong	16386 Feb 03 02:48	28° ≈ 58'17	5°28'35	evening set	16387 Jan 05 04:00	13° ≈ 09'53	
morning rise	16386 Feb 11 11:29	25° ≈ 12'48		min. Earth dist.	16387 Jan 13 02:00	9° ≈ 35'16	0.54482 AU
direct	16386 Feb 13 21:03	24° ≈ 58′06		inferior conj	16387 Jan 13 14:23	9° ≈ 17'54	-6°02'19
asc. node	16386 Feb 23 07:16	29° ≈ 04'15		minimum elong	16387 Jan 13 14:35	9° ≈ 17'37	6°01'46
	16386 Feb 24 07:29	0° ∀		morning rise	16387 Jan 22 02:11	5°≈30'26	
morning max el	16386 Feb 24 09:06	0° ₩ 03'55	20°02'53	direct	16387 Jan 25 08:21	5°≈06'39	
morning set	16386 Mar 14 07:34	29°) 12'36		morning max el	16387 Feb 06 10:01	10°≈56'43	21°32'08
	16386 Mar 14 16:52	0 ° Υ		asc. node	16387 Feb 10 04:33	15°≈05'53	
aumorior coni	16296 Mar 22 02:05	15° Ƴ 01'19	0°47'33	mamina aat	16387 Feb 19 17:42 16387 Feb 26 17:07	0°) 13°) 54'40	
superior conj minimum elong	16386 Mar 22 02:05 16386 Mar 22 04:26	15° Υ 13'00	0°47'03	morning set	1038/1760 20 17.07	13 / 34 40	
desc. node	16386 Mar 27 19:30	26° Υ '08'37	0 47 03	superior conj	16387 Mar 05 22:28	29°) €08'27	1°09'37
max. Earth dist.	16386 Mar 28 00:05	26° Υ 30'13	1.36913 AU	minimum elong	16387 Mar 06 00:58	29° H 21'24	1°09'21
max. Bartii dist.	16386 Mar 29 21:14	0°8	1.50715710	minimum ciong	16387 Mar 06 08:23	0°Υ	1 0,21
evening rise	16386 Mar 31 17:28	3° 8 21'12		max. Earth dist.	16387 Mar 10 10:54	8° Υ 21'51	1.34837 AU
3	16386 Apr 17 00:27	0°II		evening rise	16387 Mar 14 13:40	16° Y ′21'52	
evening max el	16386 May 06 04:50	24° Ⅱ 22'16	25°35'42	desc. node	16387 Mar 14 16:13	16° Ƴ 33'56	
C	16386 May 13 08:29	0ಂತಾ			16387 Mar 22 03:27	0°8	
retrograde	16386 May 18 13:54	1° 5 31'24			16387 Apr 11 10:48	Π $^{\circ}0$	
asc. node	16386 May 22 04:55	0° 5 38'04		evening max el	16387 Apr 18 18:29	8° Ⅱ 08'42	26°38'44
	16386 May 23 07:02	30°Ŗ Ⅱ		retrograde	16387 May 01 21:40	15° Ⅱ 35'35	
evening set	16386 May 24 13:54	29° Ⅱ 01'40		evening set	16387 May 08 07:14	13° Ⅱ 02'42	
min. Earth dist.	16386 May 28 19:58	24° Ⅱ 23'08	0.67839 AU	asc. node	16387 May 09 02:02	12° Ⅱ 22'34	
inferior conj	16386 May 30 06:55	22° Ⅲ 31′08	2°12'55	min. Earth dist.	16387 May 12 07:22	8° ∏ 59'14	0.66494 AU
minimum elong	16386 May 30 04:44	22° I I38'08	2°11'43	inferior conj	16387 May 14 07:26	6° Ⅱ 35'48	1°31'54
morning rise	16386 Jun 04 20:05	16° Ⅱ 40'35		minimum elong	16387 May 14 05:26	6° Ⅱ 41'48	1°30'40
direct	16386 Jun 08 07:29	15° Ⅱ 31'23	1005043	morning rise	16387 May 20 04:49	0° П 57'07	
morning max el	16386 Jun 15 03:02	19° Ⅱ 12'29	18°59'12	direct	16387 May 23 05:58	0° П 05'26 3° П 27'05	10017140
desc. node	16386 Jun 23 19:41 16386 Jun 23 17:41	0°907'10 0°9		morning max el desc. node	16387 May 29 15:25 16387 Jun 10 16:44	3°Щ2/05 19°Щ50'59	18°17'40
greatest brilliancy	16386 Jun 28 06:56	6°\$42'27	-0.7m	acse. Hour	16387 Jun 10 16:44 16387 Jun 17 02:42	0° ©	
morning set	16386 Jul 08 07:12	22°\$02'54	V. / 111	morning set	16387 Jun 18 11:42	2° © 11'23	
morning set	16386 Jul 13 10:30	22 3 02 34 0° Ω		morning set	1050/ Juli 10 11.42	2 31123	
	10000 341 13 10.30	~ UC					

superior conj	16387 Jul 03 22:15	26° © 31'21	2°00'46	minimum elong	16388 Jun 12 06:55	5° © 37'34	1047134
minimum elong	16387 Jul 03 17:13	26°9511'44	2°10'12	max. Earth dist.	16388 Jun 16 22:32	12° © 59'04	1.45554 AU
max. Earth dist.	16387 Jul 05 02:41	28°\$22'14	1.46022 AU	max. Earth dist.	16388 Jun 27 22:08	0°Ω	1.43334 AO
max. Lattii dist.	16387 Jul 06 03:48	0°Ω	1.40022 AU	evening rise	16388 Jun 28 13:53	1° Ω 00'17	
evening rise	16387 Jul 19 23:23	21° Ω 30'34		greatest brilliancy	16388 Jul 13 02:42	22°Ω48'53	-0.6m
evening rise	16387 Jul 25 10:18	0°m		greatest orimaney	16388 Jul 18 05:35	0° m	0.0111
greatest brilliancy	16387 Jul 30 04:30	7° Mp 19'37	-0.8m	asc. node	16388 Jul 21 22:27	4° Mp 43'32	
asc. node	16387 Aug 05 01:41	15° m 59'13	0.0111	evening max el	16388 Jul 24 22:57	8° Mp 03'06	19°49'51
evening max el	16387 Aug 11 17:01	24° m) 09'00	18°58'04	retrograde	16388 Aug 01 09:56	12° m) 14'37	17 17 31
retrograde	16387 Aug 18 11:28	27° m 51'17		evening set	16388 Aug 05 06:17	10° m) 49'13	
evening set	16387 Aug 21 21:35	26° m 43'40		inferior conj	16388 Aug 10 13:49	4° mp 51'09	2°58'16
inferior conj	16387 Aug 27 09:58	20° m 57'53	2°36'43	minimum elong	16388 Aug 10 15:05	4° m) 46'52	2°57'46
minimum elong	16387 Aug 27 11:59	20° m 51'27	2°36'08	min. Earth dist.	16388 Aug 11 15:20	3° m) 25'22	0.67954 AU
min. Earth dist.	16387 Aug 29 01:20	18° m) 52'32	0.66636 AU		16388 Aug 14 09:28	30°RΩ	
morning rise	16387 Sep 02 01:31	14° mp 30'54		morning rise	16388 Aug 15 23:25	28° Ω 25'04	
desc. node	16387 Sep 06 14:39	12° m) 04'41		direct	16388 Aug 21 16:28	25° Ω 55'56	
direct	16387 Sep 08 04:59	11° m)54'44		desc. node	16388 Aug 23 11:58	26° Ω 09'02	
morning max el	16387 Sep 21 00:44	19° m) 31'53	26°13'31		16388 Aug 30 06:17	0° m/p	
5 5	16387 Sep 29 23:36	0∘ <u>⊽</u>		morning max el	16388 Sep 02 11:46	2° m 59'59	24°52'42
	16387 Oct 19 20:11	0°M.			16388 Sep 23 03:11	0∘ <u>⊽</u>	
morning set	16387 Oct 26 22:35	12°M39'44		morning set	16388 Oct 08 05:12	24° ₽ 39'22	
max. Earth dist.	16387 Oct 30 17:19	19° M 51'37	1.34883 AU		16388 Oct 11 04:44	0° M	
asc. node	16387 Nov 01 02:45	22°M35'38		max. Earth dist.	16388 Oct 11 17:43	0°M59'16	1.37099 AU
	16387 Nov 04 19:00	0° ⊼		asc. node	16388 Oct 17 23:33	12°M47'42	
superior conj	16387 Nov 05 03:01	0° ∡ ′41'07	0°35'48	superior conj	16388 Oct 18 13:51	13° M 57'34	0°05'22
minimum elong	16387 Nov 05 01:10	0° х 31'36	0°36'01	minimum elong	16388 Oct 18 13:29	13°M55'45	0°05'43
evening rise	16387 Nov 12 15:52	16° ∡ ¹25'17		behind sun begin	16388 Oct 18 07:18	13°M25'30	
S	16387 Nov 19 11:03	ರ°0		behind sun end	16388 Oct 18 19:40	14°ML26'05	
evening max el	16387 Dec 01 13:07	17° る 37'43	20°46'59	evening rise	16388 Oct 26 20:28	0° ∡ ³33'12	
desc. node	16387 Dec 03 12:29	19° る 25'07			16388 Oct 26 13:53	0° ∡ 7	
retrograde	16387 Dec 12 22:05	23° ප 16'05		evening max el	16388 Nov 12 21:58	28° ∡ ¹40'22	19°33'00
evening set	16387 Dec 15 10:37	23° ප 00'41			16388 Nov 14 08:13	0°ප	
inferior conj	16387 Dec 24 05:15	19° ろ 08'38	-5°33'21	desc. node	16388 Nov 19 09:32	3°₹00'33	
minimum elong	16387 Dec 23 21:05	19° る 20'23	5°31'16	retrograde	16388 Nov 22 15:30	3° ට 32'25	
min. Earth dist.	16387 Dec 25 07:23	18° る 31'06	0.54492 AU	evening set	16388 Nov 24 14:44	3° る 21′22	
morning rise	16388 Jan 01 07:28	15° る 13'40		<i>3 4 1 1 1 1 1 1 1 1 1 1</i>	16388 Dec 02 02:49	30°R. ✓	
direct	16388 Jan 05 15:52	14° る 32'55		inferior conj	16388 Dec 03 06:05	29° ∡ 16'51	-4°12'58
morning max el	16388 Jan 18 22:23	21° る 02'35	23°18'28	minimum elong	16388 Dec 02 20:22	29° х 32′20	
	16388 Jan 26 11:36	0° ≈		min. Earth dist.	16388 Dec 05 15:24	27° ∡ ¹45'31	0.55430 AU
asc. node	16388 Jan 28 01:49	2°≈19'26		morning rise	16388 Dec 11 00:09	24° ∡ ¹56'17	
morning set	16388 Feb 11 04:44	28° ≈ 38'01		direct	16388 Dec 16 08:31	23° ₹ ′52'11	
	16388 Feb 11 20:03	0° ∀			16388 Dec 29 08:03	0°ප	
		* / (morning max el	16388 Dec 30 06:37	0° る 52'18	25°07'25
superior conj	16388 Feb 18 02:02	13°) €32'40	1°25'21	asc. node	16389 Jan 13 23:02	20° る 27'58	
minimum elong	16388 Feb 18 04:01	13°) (43'21			16389 Jan 19 05:12	0° ≈	
max. Earth dist.	16388 Feb 21 04:43	20°) 10′33	1.33131 AU	morning set	16389 Jan 25 16:35	13° ≈ 17'38	
evening rise	16388 Feb 25 22:38	29°) 52′35		C			
C	16388 Feb 26 00:08	$0^{\circ}\mathbf{Y}$		superior conj	16389 Feb 01 10:16	28° ≈ 07'02	1°34'49
desc. node	16388 Feb 29 12:55	6° Ƴ 49'17		minimum elong	16389 Feb 01 11:22	28° ≈ 13'06	1°35'10
	16388 Mar 14 05:15	0°8		Č	16389 Feb 02 06:46	0°) €	
evening max el	16388 Mar 31 07:46	21° 8 37'56	27°21'29	max. Earth dist.	16389 Feb 03 05:56	2° ₩ 06'58	1.31893 AU
retrograde	16388 Apr 13 23:20	29° 8 11'19		evening rise	16389 Feb 08 17:19	13° ¥ 45'59	
evening set	16388 Apr 20 15:43	26° 8 42'05		desc. node	16389 Feb 15 09:37	26°) 49′52	
min. Earth dist.	16388 Apr 24 11:39	23° 8 10'23	0.64738 AU		16389 Feb 17 03:19	0° Υ	
asc. node	16388 Apr 24 23:13	22° 8 39'32			16389 Mar 09 09:35	9° 8	
inferior conj	16388 Apr 27 00:08	20° 8 25'43	0°37'44	evening max el	16389 Mar 13 19:11	4° 8 38'28	27°36'42
minimum elong	16388 Apr 26 23:07	20° 8 28'31	0°36'52	retrograde	16389 Mar 27 17:35	12° 8 08'31	
morning rise	16388 May 03 08:33	15° 8 00'42		evening set	16389 Apr 03 12:50	9° 8 50'25	
direct	16388 May 06 00:26	14° 8 23'50		min. Earth dist.	16389 Apr 07 07:05	6° 8 45'25	0.62672 AU
morning max el	16388 May 12 07:50	17° 8 38'37	17°53'14	inferior conj	16389 Apr 10 05:59	3° 8 52'56	
<i>3</i>	16388 May 21 12:01	0°П	-	minimum elong	16389 Apr 10 07:00	3° 8 50'27	0°30'34
desc. node	16388 May 27 13:44	9° ∏ 54'44		asc. node	16389 Apr 11 20:29	2° 8 21'02	-
morning set	16388 May 29 19:33	13° Ⅲ 38'12			16389 Apr 14 17:54	30°RY	
5	16388 Jun 08 18:46	0°95		morning rise	16389 Apr 17 04:02	28° Y 43'57	
				direct	16389 Apr 19 11:54	28° Y 18'34	
superior conj	16388 Jun 12 15:29	6° © 11'40	-1°47'40		16389 Apr 24 03:07	0°8	
1			•		r	_	

morning max el	16389 Apr 26 01:27	1° 8 38'06	17°46'17	desc. node	16390 May 01 07:29	20° 8 38'34	
morning set	16389 May 12 03:55	26° 8 13'58					
desc. node	16389 May 14 10:38	0° Ⅱ 12'05		superior conj	16390 May 05 17:36	28° 8 28'39	
	16389 May 14 07:51	Π °0		minimum elong	16390 May 05 14:30	28° 8 15'06	0°35'58
		_			16390 May 06 14:37	0°Щ	
superior conj	16389 May 24 04:47	16° ∐ 48'03		max. Earth dist.	16390 May 13 05:53	11° Ⅱ 13'33	1.42652 AU
minimum elong	16389 May 23 22:01	16° Ⅱ 19'58		evening rise	16390 May 19 00:50	20° ∏ 35′15	
max. Earth dist.	16389 May 30 16:08	27° Ⅱ 20'39	1.44391 AU		16390 May 25 02:11	0₀ ௐ	
	16389 Jun 01 08:08	0			16390 Jun 15 11:15	0 \circ Ω	
evening rise	16389 Jun 08 01:08	10° © 28'52		evening max el	16390 Jun 20 17:22	5° Ω 52'49	22°11'42
	16389 Jun 21 01:49	0 \circ Ω		asc. node	16390 Jun 25 16:11	9° Ω 57'07	
evening max el	16389 Jul 07 22:54	21° Ω 58'07	20°55'36	retrograde	16390 Jun 30 06:47	11° Ω 27'49	
asc. node	16389 Jul 08 19:16	22° Ω 47′20		evening set	16390 Jul 05 01:30	9° Ω 27'39	
retrograde	16389 Jul 16 08:56	26° Ω 48'36		inferior conj	16390 Jul 10 07:32	3° Ω 08'53	3°05'54
evening set	16389 Jul 20 16:10	25° Ω 05'20		minimum elong	16390 Jul 10 06:56	3° Ω 10′58	3°05'17
inferior conj	16389 Jul 25 21:42	18° Ω 56'11	3°07'34	min. Earth dist.	16390 Jul 10 06:13	3° Ω 13′29	0.69167 AU
minimum elong	16389 Jul 25 22:03	18° Ω 54'59	3°07'04		16390 Jul 12 15:21	30°ષ્	
min. Earth dist.	16389 Jul 26 09:39	18° Ω 14'48	0.68806 AU	morning rise	16390 Jul 15 12:12	26° © 54'21	
morning rise	16389 Jul 31 03:39	12° Ω 34'44		direct	16390 Jul 20 05:18	24° © 55'37	
direct	16389 Aug 05 08:58	10° Ω 18'46		desc. node	16390 Jul 28 06:35	29° © 09'49	
desc. node	16389 Aug 10 09:17	11° Ω 58'42			16390 Jul 29 03:43	0 $^{\circ}$ Ω	
morning max el	16389 Aug 15 22:54	16° Ω 36'42	23°24'09	morning max el	16390 Jul 29 12:36	0° Ω 22'00	21°56'37
	16389 Aug 27 00:55	0° ™			16390 Aug 20 19:05	0° m ∕	
	16389 Sep 16 03:16	0∘ ⊽		morning set	16390 Aug 31 01:30	15° m 52'16	
morning set	16389 Sep 19 15:07	5° ≏ 45'26		max. Earth dist.	16390 Sep 05 19:38	25° Mp 13'46	1.41852 AU
max. Earth dist.	16389 Sep 23 16:29	12° ≏ 39'52	1.39520 AU		16390 Sep 08 15:59	0∘ ⊽	
superior conj	16389 Oct 01 10:46	26° Ω 35'41	-0°29'42	superior conj	16390 Sep 13 13:24	8° ჲ 25'38	-1°06'45
minimum elong	16389 Oct 01 12:58	26° £ 45'56	0°29'04	minimum elong	16390 Sep 13 18:53	8° ≏ 49'41	1°05'55
	16389 Oct 03 06:29	0°M₊		asc. node	16390 Sep 21 17:01	23° ഫ 06'00	
asc. node	16389 Oct 04 20:18	2°M58'58		evening rise	16390 Sep 24 05:35	27° Ω 44'59	
evening rise	16389 Oct 10 18:12	14°M22'38		8	16390 Sep 25 10:53	0°M₊	
C	16389 Oct 19 04:43	0° ∡ ¹		evening max el	16390 Oct 10 04:18	23°M07'58	18°11'15
evening max el	16389 Oct 26 20:19	10° ∡ ³32'52	18°41'22	retrograde	16390 Oct 17 09:15	26°M₊49'16	
retrograde	16389 Nov 04 02:39	14° х 43'46		evening set	16390 Oct 19 12:23	26°M30'27	
evening set	16389 Nov 06 00:47	14° ∡ °31'00		desc. node	16390 Oct 24 03:53	23°M57'35	
desc. node	16389 Nov 06 06:40	14° ∡ ′27′36		inferior conj	16390 Oct 26 20:45	21°M43'58	-0°52'05
inferior conj	16389 Nov 14 02:29	10° ∡ 06'09	-2°30'36	minimum elong	16390 Oct 26 18:52	21°ML48'02	0°50'50
minimum elong	16389 Nov 13 20:24	10° ∡ 17'26	2°27'38	min. Earth dist.	16390 Oct 30 02:33	18°M56'26	0.59247 AU
min. Earth dist.	16389 Nov 17 04:48	7° ∡ ¹48'58	0.57110 AU	morning rise	16390 Nov 02 22:00	16° M ₊12'12	
morning rise	16389 Nov 21 12:52	5° ∡ 109'47		direct	16390 Nov 09 10:23	14°ML15'54	
direct	16389 Nov 27 14:46	3° ∡ ³39′24		morning max el	16390 Nov 23 17:06	21°ML58'17	27°39'05
morning max el	16389 Dec 11 19:37	11° ∡ 02'51	26°39'35		16390 Nov 30 19:04	0° ∡ 7	
	16389 Dec 26 10:04	0°ප		asc. node	16390 Dec 18 17:19	28° ∡ ³36'49	
asc. node	16389 Dec 31 20:13	9° る 17'29			16390 Dec 19 10:40	0°ಕ	
morning set	16390 Jan 10 02:53	27° る 48'54		morning set	16390 Dec 25 09:45	12° る 06'20	
	16390 Jan 11 03:07	0° ≈					
				superior conj	16391 Jan 01 08:27	27° る 21'56	
superior conj	16390 Jan 16 21:04	12° ≈ 45'31	1°38'12	minimum elong	16391 Jan 01 07:29	27° る 16'28	1°36'05
minimum elong	16390 Jan 16 21:07	12° ≈ 45′50	1°38'44	max. Earth dist.	16390 Dec 31 19:55	26° る 11'43	1.30974 AU
max. Earth dist.	16390 Jan 17 12:13	14° ≈ 10′14	1.31163 AU		16391 Jan 02 12:40	0° ≈	
evening rise	16390 Jan 23 19:09	27° ≈ 55'38		evening rise	16391 Jan 08 01:49	12° ≈ 15'11	
	16390 Jan 24 18:48	0° ∀			16391 Jan 16 22:23	0° ∀	
desc. node	16390 Feb 02 06:20	16° ¥ 29'32		desc. node	16391 Jan 20 03:07	5°) 39′24	
	16390 Feb 10 10:53	0° Y		evening max el	16391 Feb 06 01:53	28° ∺ 24'09	26°25'38
evening max el	16390 Feb 24 02:12	16° Y ′57'42	27°18'48		16391 Feb 07 20:23	0° Υ	
retrograde	16390 Mar 10 02:55	24° Y °18'30		retrograde	16391 Feb 20 01:47	5° Ƴ 33'19	
evening set	16390 Mar 16 19:46	22° Y 18'34		evening set	16391 Feb 26 09:02	3° Y 57'20	
min. Earth dist.	16390 Mar 20 16:24	19° Ƴ 32'50	0.60431 AU	min. Earth dist.	16391 Mar 02 15:15	1° Y 19'45	0.58201 AU
inferior conj	16390 Mar 23 21:25	16° Ƴ 48'34			16391 Mar 04 10:47	30°₽)	
minimum elong	16390 Mar 24 01:37	16° Ƴ 39'35	1°51'03	inferior conj	16391 Mar 05 18:33	29°) € 00'44	
asc. node	16390 Mar 29 17:47	12° Y '37'35		minimum elong	16391 Mar 06 02:21	28°) (46′16	3°20'43
morning rise	16390 Mar 31 10:55	11° Y 58'33		morning rise	16391 Mar 13 23:06	24°) (32′19	
direct	16390 Apr 02 12:40	11° Y 41'08		direct	16391 Mar 15 21:59	24°) (19′20	
morning max el	16390 Apr 09 17:02	15° Y 16′35	17°57'40	asc. node	16391 Mar 16 15:07	24°) €21′08	
	16390 Apr 19 21:59	0°8		morning max el	16391 Mar 24 02:47	28° ¥ 22′07	18°28'55
morning set	16390 Apr 25 07:04	9° 8 41'39			16391 Mar 25 15:35	0° Υ	

Septicate of the part Sept	morning set	16391 Apr 08 23:30 16391 Apr 12 05:55	23° Ƴ 44'06 0° ႘		morning max el	16392 Mar 06 02:26 16392 Mar 18 21:10	10°) 42'48 0° Υ	19°21'57
Part					morning set	16392 Mar 23 00:58	8° Y 08'48	
Debinding sum begin 6189 p.m. 21022 1925/255 1920 192	superior conj	16391 Apr 18 03:23	11° 8 05'24	0°00'19				
Debtind same and 61941 Agr 18 10.24 17453794 dec. rode 61994 Agr 16 10.47 1745174 dec. rode 61994 Agr 16 11.49 2745295 1.4610 AJ	2	16391 Apr 18 03:22	_	0°00'05	superior conj	16392 Mar 31 05:45	24° Y 25'57	0°31'58
Mex. Earth dis 1639 Apr 18 6416 1755095 14510 1500 1639 Apr 16	behind sun begin	16391 Apr 17 20:20	_		minimum elong	16392 Mar 31 07:35		0°31'26
Max. Earth dist	behind sun end	16391 Apr 18 10:24				16392 Apr 03 03:29	_	
1691 Apr 28 21-47 0**T	desc. node	16391 Apr 18 04:16			desc. node	16392 Apr 04 01:01		
Sevening max	max. Earth dist.	16391 Apr 25 14:49		1.40510 AU	max. Earth dist.	16392 Apr 06 20:41	_	1.38206 AU
1639 May 18 10.11 0 0°€ 1639 May 12 09.14 179 max 1		16391 Apr 28 21:47			evening rise	16392 Apr 10 13:39		
Sevening max el 1639 Hun 15 10 19 52 17 19 19 19 19 19 19 19	evening rise	16391 Apr 29 20:43	1° Ⅲ 35′26			-		
184 185 186 186 186 187		•	0 \circ			16392 May 12 09:34	0 \circ \odot	
concept 1639 Jun 14 02.13 26°290'08 covering est 1639 Jun 19 02.13 28°291'09 covering est 1639 Jun 24 02.56 18°20 170 069028 Jun 18°20 Jun	evening max el	16391 Jun 03 08:10	19° © 47'29	23°33'03	evening max el	16392 May 15 21:34	3° © 42'25	24°53'10
Second 16.99 Jun 9 08.14 2.5925129 Second 16.99 Jun 02 1.14 18.24 17	asc. node	16391 Jun 12 13:10	25° © 55'58		retrograde	•	10° © 37'03	
minimum elong 1639 Jun 24 2.55 18*29 440 0.09028 AU minimum elong 1639 Jun 24 15.54 17*29 17*2	•	16391 Jun 14 02:13	26° © 06'08			16392 May 29 10:12		
Inferior conj 1639 Jun 24 17.20 17.92 57.25 25.9346 minimum clong 1639 Jun 24 15.54 17.92 17.92 17.92 17.92 1639 Jun 29 23.14 17.92 17.92 17.92 17.92 1639 Jun 19 1639 Jun 17.92	•		23° 9 51'29		•			
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Morning max el 1691 Jul 12 0739 14°521732 20°3707 morning max el 16392 Jun 17 0426 24°11207 9°30′28 16391 Jul 13 18:01 0°18 18391 Jul 13 18:01 0°18 16391 Jul 13 18:01 0°18 18391 Jul 13 18:01 0°18	morning rise	16391 Jun 29 23:14					•	
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moming set 1639 Jul 24 18:23 0°£ desc. node 16392 Jun 25 22:50 0°€ 16391 Aug 13 18:01 0°ħ greatest brilliancy 16392 Jul 01 00:59 0°€ 0°€ 18:00 0°₺ 0.6 moming set 16392 Jul 01 00:59 0°€ 0.6 moming set 16392 Jul 01 00:59 0°€ 0.6 moming set 16392 Jul 17 03:39 0°£ 0.6 moming set 16392 Jul 17 03:39 0°£ 0.6 moming set 16392 Jul 18:01 0°£ 0°£ 0.6 moming set 16392 Jul 18:01 0°£	•	16391 Jul 12 07:39	14° © 17'32	20°37'07				
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minimum elong					morning set	16392 Jul 19 18:58		
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asc. node 16392 Mar 02 12:26 7° ₩51'34 morning max el 16393 Feb 16 12:03 22°≈08'16 20°38'15								
	asc. node	16392 Mar 02 12:26	/~ 大 51'34		morning max el	16393 Feb 16 12:03	22° ≈ 08'16	20°38'15

asc. node	16393 Feb 17 09:43	23° ≈ 02'43		direct	16394 Jan 16 15:35	26° る 29'50	
	16393 Feb 22 21:56	0° ∀			16394 Jan 26 03:59	0° ≈	
morning set	16393 Mar 07 08:18	22°) 46′38		morning max el	16394 Jan 29 06:43	2° ≈ 37'49	22°15'58
C	16393 Mar 10 19:48	0° Y		asc. node	16394 Feb 04 07:01	9° ≈ 37'14	
	100,0 1,141 10 1,.10	• •		use. noue	16394 Feb 16 04:03	0° ∀	
	16202 M 14 20 25	000010140	0°57'41	. ,			
superior conj	16393 Mar 14 20:35	8° Y 18'48		morning set	16394 Feb 19 18:57	7° ∺ 29'56	
minimum elong	16393 Mar 14 23:05	8° Ƴ 31'32	0°57'16				
max. Earth dist.	16393 Mar 20 04:16	18° Ƴ 52'24	1.35989 AU	superior conj	16394 Feb 26 20:18	22°) 33′53	1°17'04
desc. node	16393 Mar 21 21:43	22° Y 10'08		minimum elong	16394 Feb 26 22:38	22°) 46′14	1°16'56
evening rise	16393 Mar 24 00:56	26° Ƴ 08'47			16394 Mar 02 09:51	$0^{\circ}\mathbf{\Upsilon}$	
Ç	16393 Mar 26 03:53	0°B		max. Earth dist.	16394 Mar 02 18:04	0° Ƴ 41'57	1.34059 AU
	16393 Apr 14 00:09	0°II		evening rise	16394 Mar 07 02:57	9° Υ 23'21	1.5 100 / 110
	-		26004141	U		12° Υ 31'43	
evening max el	16393 Apr 28 11:12	17° Ⅲ 35'00	26°04'41	desc. node	16394 Mar 08 18:23		
retrograde	16393 May 11 05:00	24° Ⅱ 53'30			16394 Mar 18 16:28	$0^{\circ}S$	
asc. node	16393 May 16 07:17	23° Ⅱ 11′05			16394 Apr 09 18:30	Π $\circ 0$	
evening set	16393 May 17 09:08	22° Ⅲ 21'57		evening max el	16394 Apr 11 01:04	1° Ⅱ 16′19	27°00'00
min. Earth dist.	16393 May 21 12:34	17° Ⅱ 58′20	0.67311 AU	retrograde	16394 Apr 24 10:06	8° Ⅱ 46'31	
inferior conj	16393 May 23 05:02	15° Ⅱ 52'03	1°57'06	evening set	16394 Apr 30 22:56	6° Ⅱ 14'37	
minimum elong	16393 May 23 02:51	15° I I58'53	1°55'51	asc. node	16394 May 03 04:27	4° Ⅱ 14'03	
	•		1 33 31		•		0.65700 411
morning rise	16393 May 28 21:19	10° Ⅱ 06'06		min. Earth dist.	16394 May 04 21:10	2° Ⅱ 25'03	0.65790 AU
direct	16393 Jun 01 04:14	9° Ⅱ 04'36			16394 May 06 23:37	30° ₹ ႘	
morning max el	16393 Jun 07 18:34	12° Ⅲ 36′08	18°39'28	inferior conj	16394 May 07 02:34	29° 8 51'29	1°10'39
desc. node	16393 Jun 17 22:04	25° Ⅱ 47'48		minimum elong	16394 May 07 00:52	29° 8 56'24	1°09'30
	16393 Jun 20 16:48	0° ©		morning rise	16394 May 13 04:15	24° 8 18'07	
morning set	16393 Jun 29 10:13	13° © 32'42		direct	16394 May 16 01:26	23° 8 32'57	
morning set					•	_	10005113
	16393 Jul 09 23:24	$0^{\circ}\Omega$		morning max el	16394 May 22 08:53	26° 8 50'04	18°05'12
max. Earth dist.	16393 Jul 14 15:11	7° & 15′31	1.45953 AU		16394 May 25 05:13	Π $^{\circ}0$	
				desc. node	16394 Jun 04 19:05	15° Ⅱ 40'58	
superior conj	16393 Jul 15 11:17	8° Ω 33'51	-2°14'18	morning set	16394 Jun 10 02:16	24° Ⅱ 14'47	
minimum elong	16393 Jul 15 10:36	8° Ω 31'13	2°14'51		16394 Jun 13 15:45	0° ©	
	16393 Jul 29 02:32	0° m)					
evening rise	16393 Jul 31 01:23	3° Mp 06'05		superior conj	16394 Jun 24 21:46	17°953'01	2002121
•			0.0				
greatest brilliancy	16393 Aug 06 19:24	13° Tp 49'23	-0.9m	minimum elong	16394 Jun 24 14:28	17° © 24'22	
asc. node	16393 Aug 12 07:09	22° m) 18'58		max. Earth dist.	16394 Jun 27 12:02	21°956'46	1.45918 AU
	16393 Aug 17 19:10	0∘ 亚			16394 Jul 02 16:15	0 $^{\circ}$ Ω	
evening max el	16393 Aug 20 22:04	3° ₽ 31'49	18°35'27	evening rise	16394 Jul 11 01:10	12° Ω 56′30	
retrograde	16393 Aug 27 10:22	7° ჲ 02'16			16394 Jul 22 05:09	0° m)	
evening set	16393 Aug 30 15:00	6° ₽ 04'25		greatest brilliancy	16394 Jul 23 07:46	1° m)39'17	-0.7m
inferior conj	16393 Sep 05 07:37	0° ჲ 26'36	2°18'00	asc. node	16394 Jul 30 03:54	11° m) 21'40	0.7111
5	•						10010112
minimum elong	16393 Sep 05 09:52	0° ≏ 19'40	2°17'21	evening max el	16394 Aug 04 07:15	17° m) 24'17	19°18'12
	16393 Sep 05 16:17	30°R, Mp		retrograde	16394 Aug 11 07:37	21° m)17'13	
min. Earth dist.	16393 Sep 07 07:02	28° m 01'59	0.65698 AU	evening set	16394 Aug 14 22:07	20° Mp 01'54	
morning rise	16393 Sep 11 03:35	24° Mp 01'44		inferior conj	16394 Aug 20 08:04	14° m) 10'41	2°47'26
desc. node	16393 Sep 13 19:47	22° Mp 16'11		minimum elong	16394 Aug 20 09:48	14° Mp 05'00	2°46'53
direct	16393 Sep 17 12:17	21° m/24'37		min. Earth dist.	16394 Aug 21 17:26	12° m) 21'40	0.67258 AU
morning max el	16393 Sep 30 18:36	-	26°52'29	morning rise	16394 Aug 25 20:51	7° m) 43'48	0.07200110
morning max er	1	~	20 32 29	=	Č	•	
	16393 Oct 01 12:59	0∘ 亚		direct	16394 Aug 31 20:08	5° m, 09'58	
	16393 Oct 23 13:56	0° M		desc. node	16394 Aug 31 17:07	5° Mp 10'02	
morning set	16393 Nov 05 11:38	22°M45'21		morning max el	16394 Sep 13 06:01	12° m 34'00	25°40'41
asc. node	16393 Nov 08 08:11	28° M 19'35			16394 Sep 27 07:56	0∘ ⊽	
	16393 Nov 09 04:19	0° ∡ ¹			16394 Oct 16 06:41	0° M .	
max. Earth dist.	16393 Nov 09 14:00	0° ∡ ¹48'33	1.33797 AU	morning set	16394 Oct 19 04:18	5°M11'36	
max. Earth dist.	103/3 1107 07 11.00	0 % 1033	1.55777710	max. Earth dist.	16394 Oct 22 18:50	11°ML53'43	1.35792 AU
	1620231 14 02 51	100 70000	0050145				1.33792 AU
superior conj	16393 Nov 14 02:51	10° ₹ 09'20	0°50'45	asc. node	16394 Oct 26 05:01	18°MJ30'45	
minimum elong	16393 Nov 14 00:36	9° ∡ 57'30	0°50'58				
evening rise	16393 Nov 21 08:15	25° ∡ ³31'40		superior conj	16394 Oct 28 19:58	23°M44'19	0°23'33
	16393 Nov 23 11:29	8°0		minimum elong	16394 Oct 28 18:37	23°M37'30	0°23'48
desc. node	16393 Dec 10 17:46	28° る 03'45		-	16394 Oct 31 21:42	0° ∡ ¹	
evening max el	16393 Dec 11 15:25	28° る 58'42	21°38'50	evening rise	16394 Nov 05 15:33	9° × 747'52	
Cronnig max or		28 ⊙ 38 42	21 5550	0,011111g 1150		ッスサ/32 0°る	
, ,	16393 Dec 12 17:31				16394 Nov 16 08:41		20012142
retrograde	16393 Dec 23 20:13	5°≈00'24		evening max el	16394 Nov 23 15:46	9° る 33'27	20~12′43
evening set	16393 Dec 26 23:20	4° ≈ 38'15		desc. node	16394 Nov 27 14:48	12° る 46'59	
inferior conj	16394 Jan 04 14:19	0° ≈ 48'30	-5°57'36	retrograde	16394 Dec 04 07:50	14° る 52'17	
minimum elong	16394 Jan 04 10:25	0° ≈ 53'56	5°56'42	evening set	16394 Dec 06 13:04	14° る 39'34	
min. Earth dist.	16394 Jan 04 18:43	0° ≈ 42'20	0.54372 AU	inferior conj	16394 Dec 15 07:50	10° ට 43'12	-5°03'55
u	16394 Jan 06 01:11	30°Rる		minimum elong	16394 Dec 14 22:05	10°る57'43	
				_			
morning rise	16394 Jan 12 22:04	27° る 00'11		min. Earth dist.	16394 Dec 17 00:30	9° る 42'39	0.54787 AU

							
morning rise	16394 Dec 23 06:24	6°る39'44		evening set	16395 Nov 17 05:58	25° ₹ 20'38	
direct	16394 Dec 28 01:43	5° る 49'47		inferior conj	16395 Nov 25 16:21	21° ∡ *07'45	
morning max el	16395 Jan 10 16:05	12° る 32'37	24°05'43	minimum elong	16395 Nov 25 07:52		
asc. node	16395 Jan 22 04:16	27° る 16'37		min. Earth dist.	16395 Nov 28 10:35	19° ⊀ 15'30	0.56066 AU
	16395 Jan 23 20:11	0° ≈		morning rise	16395 Dec 03 07:13	16° ∡ ³32'15	
morning set	16395 Feb 04 06:57	22° ≈ 13'11		direct	16395 Dec 08 23:33	15° ∡ 17'24	
	16395 Feb 07 20:47	0° ∀		morning max el	16395 Dec 23 01:48	22° ∡ ¹28'25	25°49'49
					16395 Dec 29 17:55	0° ප	
superior conj	16395 Feb 11 02:09	7° ₩ 03'44	1°30'07	asc. node	16396 Jan 09 01:28	15° る 44'10	
minimum elong	16395 Feb 11 03:48	7°) 12′40	1°30'18		16396 Jan 16 12:37	0° ≈	
max. Earth dist.	16395 Feb 13 15:31	12° ¥ 35′27	1.32546 AU	morning set	16396 Jan 19 18:23	6°≈50'12	
evening rise	16395 Feb 18 16:26	23° ₩ 05'02		•			
C	16395 Feb 22 04:53	$0^{\circ}\mathbf{Y}$		superior conj	16396 Jan 26 11:45	21° ≈ 40'51	1°37'00
desc. node	16395 Feb 23 15:05	2° Y 41'53		minimum elong	16396 Jan 26 12:25	21° ≈ 44'34	1°37'26
	16395 Mar 12 08:53	0°8		max. Earth dist.	16396 Jan 27 19:12	24° ≈ 35'10	1.31517 AU
evening max el	16395 Mar 24 13:48	14° 8 34'58	27°31'38	man. Bartin dist.	16396 Jan 30 06:28	0° ∀	1.51017110
retrograde	16395 Apr 07 08:30	22° 8 07'19	27 3130	evening rise	16396 Feb 02 14:27	7° ₩ 05'57	
evening set	16395 Apr 14 02:53	19° 8 41'48		desc. node	16396 Feb 10 11:48	22° ∺ 34'28	
•	-	16° 8 22'27	0.63897 AU	desc. Hode		22 γ (3428	
min. Earth dist.	16395 Apr 17 21:43	14° 8 07'46	0.03897 AU		16396 Feb 14 16:58		27022114
asc. node	16395 Apr 20 01:40	•	0010120	evening max el	16396 Mar 05 23:25		27°33'14
inferior conj	16395 Apr 20 15:02	13° 8 32'44	0°10'29		16396 Mar 09 00:48	0°8	
minimum elong	16395 Apr 20 14:44	13° 8 33'31	0°09'57	retrograde	16396 Mar 19 23:16	4° 8 45'46	
transit middle	16395 Apr 20 14:44	13° 8 33'31	0°09'57	evening set	16396 Mar 26 18:21	2° 8 34'12	
transit begin	16395 Apr 20 12:17	13° 8 39'55			16396 Mar 30 03:06	30° ŖƳ	
transit end	16395 Apr 20 17:11	13° 8 27'07		min. Earth dist.	16396 Mar 30 12:46	29° Y 38'47	0.61730 AU
morning rise	16395 Apr 27 04:58	8° 8 14'20		inferior conj	16396 Apr 02 15:10	26° Ƴ 47'24	
direct	16395 Apr 29 17:23	7° 8 42'40		minimum elong	16396 Apr 02 17:25	26° Ƴ 42'12	1°03'16
morning max el	16395 May 06 02:11	10° 8 57'40	17°48'08	asc. node	16396 Apr 05 22:57	23° Y 55'36	
	16395 May 19 05:00	$\Pi^{\circ}0$		morning rise	16396 Apr 09 19:43	21° Y '46'31	
morning set	16395 May 22 21:06	6° Ⅱ 12'37		direct	16396 Apr 12 00:39	21° Y 25'02	
desc. node	16395 May 22 16:01	5° Ⅱ 51′06		morning max el	16396 Apr 18 19:27	24° Ƴ 49'51	17°48'52
	•			•	16396 Apr 23 02:12	0°8	
superior conj	16395 Jun 04 22:30	27° Ⅱ 54'33	-1°34'14	morning set	16396 May 04 14:09	19° 8 12'21	
minimum elong	16395 Jun 04 14:15	27° II 21'09	1°33'58	desc. node	16396 May 08 12:55	26° 8 12'54	
g	16395 Jun 06 05:37	0°9	1 33 00	dese. node	16396 May 10 16:37	0°II	
max. Earth dist.	16395 Jun 10 07:32	6° © 30'11	1.45139 AU		100,01124, 10 10.07	Ÿ —	
evening rise	16395 Jun 20 12:05	22°S20'02	1.10107110	superior conj	16396 May 15 21:54	8° Ⅱ 58'57	-0°57'49
evening rise	16395 Jun 25 13:14	0°Ω		minimum elong	16396 May 15 16:39	8° П 36'42	0°57'38
		0 8 <i>t</i> 29°Ω50'13		Č	•	8 Д3042 20°Д40'03	
asc. node	16395 Jul 17 00:42			max. Earth dist.	16396 May 22 23:19		1.43704 AU
	16395 Jul 17 04:18	0° Mp	20017117		16396 May 28 20:03	0.00 0.00	
evening max el	16395 Jul 18 10:35	1° Mp 18'46	20°16'16	evening rise	16396 May 30 03:00	2°500'42	
retrograde	16395 Jul 26 06:39	5° Mp 46'03			16396 Jun 18 01:10	0 ° Ω	
evening set	16395 Jul 30 07:35	4° Mp 12'48		evening max el	16396 Jun 30 07:55	15° Ω 13'26	21°27'01
	16395 Aug 03 05:08	30°R Ω		asc. node	16396 Jul 02 21:34	17° Ω 33'12	
inferior conj	16395 Aug 04 13:55	28° Ω 09'37	3°03'36	retrograde	16396 Jul 09 05:29	20° Ω 23′13	
minimum elong	16395 Aug 04 14:49	28° Ω 06'33	3°03'08	evening set	16396 Jul 13 17:28	18° £ 32′36	
min. Earth dist.	16395 Aug 05 09:31	27° Ω 02'38	0.68371 AU	inferior conj	16396 Jul 18 22:53	12° Ω 18′58	3°08'10
morning rise	16395 Aug 09 21:41	21° Ω 45′09		minimum elong	16396 Jul 18 22:50	12° Ω 19'11	3°07'38
direct	16395 Aug 15 09:43	19° Ω 21'19		min. Earth dist.	16396 Jul 19 05:10	11° Ω 57′06	0.69009 AU
desc. node	16395 Aug 18 14:28	20° Ω 02'04		morning rise	16396 Jul 24 03:58	6° Ω 00'00	
morning max el	16395 Aug 26 17:07	26° Ω 07'02	24°15'31	direct	16396 Jul 29 04:00	3° Ω 51′04	
	16395 Aug 30 06:54	0° m)		desc. node	16396 Aug 04 11:46	6° Ω 29'22	
	16395 Sep 20 20:40	0∘ ⊽		morning max el	16396 Aug 08 05:07	9° Ω 48'02	22°46'24
morning set	16395 Oct 01 02:40	16° ≏ 50'06		Č	16396 Aug 24 03:36	0° m	
max. Earth dist.	16395 Oct 04 18:06	23° ♀ 13'50	1.38120 AU	morning set	16396 Sep 11 02:51	27° m/32'25	
max. Earth dist.	16395 Oct 08 11:19	0° M	1.50120110	morning sec	16396 Sep 12 14:43	0∘ ⊽	
	10373 000 00 11.17	0 110		max. Earth dist.	16396 Sep 15 17:53		1.40531 AU
superior conj	16395 Oct 12 01:24	6° ™ 45'48	-0.00,04	max. Latin dist.	10570 Bep 15 17.55	J — 130/	1.70331 AU
	16395 Oct 12 01:24 16395 Oct 12 02:00	6°M48'39	0°08'37	superior coni	16306 San 22 15:00	19° ≏ 05'12	0045122
minimum elong			0 003/	superior conj	16396 Sep 23 15:08		
behind sun begin	16395 Oct 11 20:07	6°M20'32		minimum elong	16396 Sep 23 18:41	19° £ 21'21	0°44'37
behind sun end	16395 Oct 12 07:52	7°M16'49		asc. node	16396 Sep 28 22:32	28° ♀ 53'26	
asc. node	16395 Oct 13 01:46	8°M43'04			16396 Sep 29 12:41	0°M	
evening rise	16395 Oct 20 17:40	23° M 49'32		evening rise	16396 Oct 03 11:33	7° M 29'18	
	16395 Oct 23 21:04	0° ∡ ¹			16396 Oct 16 15:44	0° ∡ ™	
evening max el	16395 Nov 06 06:39	20° ∡ 57'45	19°08'15	evening max el	16396 Oct 19 09:42	3° ∡ 10′26	18°26'03
evening max el desc. node		25° ∡ ¹29'22	19°08'15	evening max el retrograde	16396 Oct 19 09:42 16396 Oct 27 04:03	7° ∡ ¹07'09	18°26'03
•	16395 Nov 06 06:39		19°08'15	•			18°26'03

1 1	16206 0 4 21 00 06	(0. 7 02122			16207.0 + 11.24.00	100 M 10150	
desc. node	16396 Oct 31 09:06	6°×103'32	1047104	evening set	16397 Oct 11 24:00	19°M 10'50	
inferior conj	16396 Nov 05 22:14	2° ₹ 18'36		desc. node	16397 Oct 18 06:20	14°M58'54	001.4157
minimum elong	16396 Nov 05 18:02	2° ∡ ¹26'55	1°45'08	inferior conj	16397 Oct 19 01:09	14°M15'58	
	16396 Nov 08 20:14	30°RM₊		minimum elong	16397 Oct 19 00:40	14° M ₊17'06	0°14'20
min. Earth dist.	16396 Nov 09 03:38	29°M45'54	0.57983 AU	transit middle	16397 Oct 19 00:40	14° M ₊17'06	0°14'20
morning rise	16396 Nov 13 04:53	27°M06'17		transit begin	16397 Oct 18 23:07	14°M20'39	
direct	16396 Nov 19 12:07	25°M24'16		transit end	16397 Oct 19 02:12	14°M13'32	
	16396 Nov 30 09:57	0° ∡ ¹		min. Earth dist.	16397 Oct 22 05:28	11°ML21'26	0.60225 AU
morning max el	16396 Dec 03 18:25	2° ∡ 57'12	27°09'19	morning rise	16397 Oct 25 22:08	8°MJ31'42	
	16396 Dec 23 07:10	0°₹		direct	16397 Nov 01 13:17	6°ML25'11	
asc. node	16396 Dec 25 22:37	4° ප 47'38		morning max el	16397 Nov 15 19:04	14°M13'41	27°52'26
morning set	16397 Jan 03 03:28	21° පි 16'25			16397 Nov 28 12:24	0° ∡ ¹	
	16397 Jan 07 03:10	0° ≈		asc. node	16397 Dec 12 19:42	24° ₰ 17'22	
					16397 Dec 15 16:57	0°₹	
superior conj	16397 Jan 09 23:04	6° ≈ 19'34	1°37'49	morning set	16397 Dec 18 08:18	5° る 27'08	
minimum elong	16397 Jan 09 22:41	6°≈17'22	1°38'22	max. Earth dist.	16397 Dec 24 09:26	18° る 36'22	1.31065 AU
max. Earth dist.	16397 Jan 10 02:21	6° ≈ 37'56	1.31016 AU				
evening rise	16397 Jan 16 18:37	21° ≈ 20′39		superior conj	16397 Dec 25 10:12	20°る54'33	1°32'35
	16397 Jan 20 22:58	0° ∀		minimum elong	16397 Dec 25 08:50	20° る 46'55	1°33'07
desc. node	16397 Jan 27 08:33	12°) €02'35			16397 Dec 29 11:59	0° ≈	
	16397 Feb 08 00:21	$0^{\circ}\mathbf{\Upsilon}$		evening rise	16398 Jan 01 02:49	5° ≈ 44'08	
evening max el	16397 Feb 16 03:33	9° Ƴ 15'58	27°00'22		16398 Jan 13 15:34	0° ₩	
retrograde	16397 Mar 02 04:44	16° Ƴ 32'44		desc. node	16398 Jan 14 05:20	0° ₩ 57'15	
evening set	16397 Mar 08 18:13	14° Ƴ 42'28		evening max el	16398 Jan 28 23:54	20°) 21′14	25°53'13
min. Earth dist.	16397 Mar 12 17:46	12° Ƴ 01'34	0.59460 AU	retrograde	16398 Feb 11 22:38	27°) 24'13	
inferior conj	16397 Mar 15 23:15	9° Y 25'49	-2°30'40	evening set	16398 Feb 17 22:57	26° ₩ 00'09	
minimum elong	16397 Mar 16 05:01		2°28'29	min. Earth dist.	16398 Feb 22 12:57	23°) €21'14	0.57321 AU
morning rise	16397 Mar 23 19:25	4° Υ 44'50		inferior conj	16398 Feb 25 11:44	21°) 18'13	
asc. node	16397 Mar 23 20:17	4° Υ 44'19		minimum elong	16398 Feb 25 20:41	21°) (02'37	
direct	16397 Mar 25 19:13	4° Υ 29'53		morning rise	16398 Mar 05 21:31	16° ¥ 58'37	2 23 00
morning max el	16397 Apr 02 09:04	8° Υ 15'59	18°08'25	direct	16398 Mar 07 20:53	16° ¥ 46'22	
morning max cr	16397 Apr 16 09:37	0°8	10 00 23	asc. node	16398 Mar 10 17:36	17°) 13'31	
morning set	16397 Apr 17 23:32	2° 8 56'32		morning max el	16398 Mar 16 15:02	21° X 1331	18°48'36
desc. node	16397 Apr 17 25:32 16397 Apr 25 09:43	16° 8 41'41		morning max cr	16398 Mar 23 10:34	21 γ (0431	10 40 30
desc. Hode	10397 Apr 23 09.43	10 04141		morning set	16398 Apr 01 20:20	17° Y ′10'47	
superior conj	16397 Apr 27 20:04	21° 8 04'42	0020100	morning set	16398 Apr 01 20:20 16398 Apr 08 10:34	0° 8	
minimum elong	*	20° 8 57'19			10398 Apr 08 10.34	0.0	
minimum elong	16397 Apr 27 18:25	20 O 37 19 0° I	0 20 20		16200 4 10 12 20	40 00005	0°14'24
Fauth diet	16397 May 02 22:26	0°Ⅲ 4°Ⅱ14'23	1 41770 ATT	superior conj	16398 Apr 10 13:29	4° 8 02'05 4° 8 06'28	
max. Earth dist.	16397 May 05 10:27		1.41770 AU	minimum elong	16398 Apr 10 14:25	_	0°13'56
evening rise	16397 May 10 10:48	12° Ⅱ 29'19		behind sun begin	16398 Apr 10 11:05	3° 8 50'43	
	16397 May 21 18:26	0.ee	2224444	behind sun end	16398 Apr 10 17:45	4° 8 22'11	
evening max el	16397 Jun 13 00:34	29° © 08'11	22°46'11	desc. node	16398 Apr 12 06:28	7° 8 13'47	1 20541 411
	16397 Jun 13 21:55	0°Ω		max. Earth dist.	16398 Apr 17 17:57	17° 8 08'25	1.39541 AU
asc. node	16397 Jun 19 18:30	4° Ω 15'07		evening rise	16398 Apr 21 15:58	23° 8 54'12	
retrograde	16397 Jun 23 02:28	5° Ω 02'32			16398 Apr 25 07:58	0°II	
evening set	16397 Jun 28 01:59	2° Ω 56'07			16398 May 15 13:28	0°95	
	16397 Jun 30 19:41	30°Rூ		evening max el	16398 May 26 14:42	13°504'02	24°07'44
inferior conj	16397 Jul 03 08:56	26°533'53	3°02'02	retrograde	16398 Jun 06 20:17	19°538'31	
minimum elong	16397 Jul 03 07:58	26°937'15	3°01'21	asc. node	16398 Jun 06 15:30	19°538'21	
min. Earth dist.	16397 Jul 03 02:07	26°957'33	0.69162 AU	evening set	16398 Jun 12 07:32	17°518'54	
morning rise	16397 Jul 08 13:47	20°522'31		min. Earth dist.	16398 Jun 16 22:15	11°957'58	0.68828 AU
direct	16397 Jul 13 01:43	18° © 31'38		inferior conj	16398 Jun 17 18:07	10°950'38	2°45'29
morning max el	16397 Jul 21 20:37	23° © 36'57	21°21'28	minimum elong	16398 Jun 17 16:24	10° © 56'28	2°44'31
desc. node	16397 Jul 22 09:01	24°9508'23		morning rise	16398 Jun 23 01:19	4° 9 548'17	
	16397 Jul 27 10:59	0 $^{\circ}\Omega$		direct	16398 Jun 27 01:28	3°€17'00	
	16397 Aug 17 11:18	0° m)		morning max el	16398 Jul 04 18:23	7° 9 36'27	20°06'56
morning set	16397 Aug 22 03:21	7° m 14'34		desc. node	16398 Jul 09 06:13	12°9540'47	
max. Earth dist.	16397 Aug 28 23:09	18° m 10'08	1.42744 AU		16398 Jul 21 16:18	0 $^{\circ}\Omega$	
				morning set	16398 Aug 01 10:28	16° Ω 14'33	
		0° ჲ 31'58			16398 Aug 10 06:23	0° m)	
superior conj	16397 Sep 05 08:40					100 55107	1 44505 ATT
superior conj minimum elong	16397 Sep 05 15:24	1° ≏ 00'52	1°21'13	max. Earth dist.	16398 Aug 11 11:25	1° m 55'07	1.44505 AU
	16397 Sep 05 15:24 16397 Sep 05 01:11	1° ഫ 00'52 0° ഫ	1°21'13	max. Earth dist.	16398 Aug 11 11:25	1°110/55'0/	1.44505 AU
	16397 Sep 05 15:24		1°21'13	max. Earth dist.	16398 Aug 11 11:25 16398 Aug 17 02:49	1° 10/55'07 10° 10/59'46	
minimum elong	16397 Sep 05 15:24 16397 Sep 05 01:11	0∘ ⊽	1°21'13		-	•	-1°53'27
minimum elong asc. node	16397 Sep 05 15:24 16397 Sep 05 01:11 16397 Sep 15 19:14	0° ჲ 18° ჲ 57'35	1°21'13	superior conj	16398 Aug 17 02:49	10° m 59'46	-1°53'27
minimum elong asc. node	16397 Sep 05 15:24 16397 Sep 05 01:11 16397 Sep 15 19:14 16397 Sep 16 17:07 16397 Sep 21 23:02 16397 Oct 02 20:33	0° ჲ 18° ჲ 57'35 20° ჲ 36'20	1°21'13 18°04'40	superior conj	16398 Aug 17 02:49 16398 Aug 17 10:39	10° mp 59'46 11° mp 31'40	-1°53'27
minimum elong asc. node evening rise	16397 Sep 05 15:24 16397 Sep 05 01:11 16397 Sep 15 19:14 16397 Sep 16 17:07 16397 Sep 21 23:02	0° £ 18° £ 57'35 20° £ 36'20 0° M		superior conj minimum elong	16398 Aug 17 02:49 16398 Aug 17 10:39 16398 Aug 28 11:46	10° m 59'46 11° m 31'40 0° <u>∩</u>	-1°53'27

Tranctary Trienc	incha of Mercury	10111 10100	unough 1000.	2 (O1), Astrouren	ist AC 16-1 C0-2023	14.22,	page 101
evening max el	16398 Sep 16 11:02	29° ≙ 19'41	18°02'29	minimum elong	16399 Jul 28 03:10	20° Ω 50'38	2°12'24
Č	16398 Sep 17 04:07	0° M ,		Č	16399 Aug 02 21:44	0° m)	
retrograde	16398 Sep 22 21:28	2°M41'03		evening rise	16399 Aug 11 19:17	14° m/22'32	
evening set	16398 Sep 25 11:51	2°M06'56		asc. node	16399 Aug 20 12:37	28° m/30'35	
	16398 Sep 28 17:00	30° ₹ Ω			16399 Aug 21 11:19	0∘ ত	
inferior conj	16398 Oct 01 21:42	26° ≏ 53'16	0°59'08	evening max el	16399 Aug 31 01:37	12° ≏ 57'07	18°18'25
minimum elong	16398 Oct 01 23:18	26° ₽ 49'05	0°58'48	retrograde	16399 Sep 06 10:50	16° ≙ 20'51	
min. Earth dist.	16398 Oct 04 17:19	23° ♀ 57'04	0.62506 AU	evening set	16399 Sep 09 10:01	15° ≏ 32'24	
desc. node	16398 Oct 05 03:37	23° ჲ 31′28		inferior conj	16399 Sep 15 07:55	10° ჲ 02'39	
morning rise	16398 Oct 08 08:22	20° ≏ 45'52		minimum elong	16399 Sep 15 10:12	9° ჲ 55'58	1°53'32
direct	16398 Oct 15 00:47	18° ≏ 21'07		min. Earth dist.	16399 Sep 17 15:07	7° ≏ 22'25	0.64611 AU
morning max el	16398 Oct 29 02:06	26° ≏ 18'17	27°56'11	morning rise	16399 Sep 21 08:48	3° ≏ 41'35	
	16398 Nov 01 13:10	0°M₊		desc. node	16399 Sep 22 00:56	3° ≏ 10'58	
	16398 Nov 22 02:51	0° ⊼		direct	16399 Sep 27 21:21	1° ≏ 06'35	
asc. node	16398 Nov 29 16:40	14° ₹ 05'27		morning max el	16399 Oct 11 12:47	9° ჲ 02'39	27°24'16
morning set	16398 Dec 02 06:41	19° ∡ 16'45			16399 Oct 27 22:25	0° M .	
	16398 Dec 07 08:39	0°る			16399 Nov 14 11:15	0° ∡ 7	
max. Earth dist.	16398 Dec 07 12:36	0° る 21'23	1.31681 AU	morning set	16399 Nov 15 20:07	2° ∡ ′40′05	
	16200 D 00 10 12	50710155	1001114	asc. node	16399 Nov 16 13:33	4° ₹ 06'16	1 220/2 411
superior conj	16398 Dec 09 19:12	5°る19'55 5°る08'22		max. Earth dist.	16399 Nov 20 08:12	11° ∡ ⁴46'43	1.32862 AU
minimum elong	16398 Dec 09 17:06	5°808'22 20°8711'06	1°21′39		16200 N 24 00 01	100 720146	1002141
evening rise	16398 Dec 16 13:09			superior conj	16399 Nov 24 00:01	19° 🗷 30'46	
desc. node	16398 Dec 21 05:36 16399 Jan 01 02:11	0° ≈ 19° ≈ 05'40		minimum elong	16399 Nov 23 21:38 16399 Nov 28 20:19	19° メ 18'00 0°る	1°03'58
desc. node	16399 Jan 01 02.11 16399 Jan 09 20:29	19 ≈ 03 40 0° ∺		evening rise	16399 Nov 30 23:50	0 る 4° る 37'35	
evening max el	16399 Jan 10 12:08		24°19'39	evening rise	16399 Dec 14 11:33	4 O 3733	
retrograde	16399 Jan 24 03:06	0 X 38 09 7° ¥ 24'55	24 1939	desc. node	16399 Dec 14 11:33 16399 Dec 18 23:06	0 ≈ 6°≈11'40	
evening set	16399 Jan 29 05:24	6° ∺ 28'10		evening max el	16399 Dec 22 21:39	10°≈32'57	22°35'57
min. Earth dist.	16399 Feb 03 23:52	3°) 34'41	0.55593 AU	retrograde	16400 Jan 04 19:14	16°≈55'39	22 33 31
inferior conj	16399 Feb 06 02:49	2°) 17'06		evening set	16400 Jan 08 15:34	16°≈23'16	
minimum elong	16399 Feb 06 11:24	2°) (04'02		min. Earth dist.	16400 Jan 16 06:10	12°≈55'17	0.54561 AU
	16399 Feb 10 02:48	30°R≈		inferior conj	16400 Jan 17 00:11	12° ≈ 29'53	
morning rise	16399 Feb 14 19:23	28° ≈ 17'27		minimum elong	16400 Jan 17 01:50	12° ≈ 27'33	6°00'41
direct	16399 Feb 17 02:44	28° ≈ 03'32		morning rise	16400 Jan 25 13:13	8° ≈ 41'44	
	16399 Feb 23 12:59	0°) €		direct	16400 Jan 28 15:34	8° ≈ 19'54	
asc. node	16399 Feb 25 14:55	1° ¥ 28'40		morning max el	16400 Feb 09 12:11	14° ≈ 03'45	21°17'31
morning max el	16399 Feb 27 09:02	3°) €02'33	19°51'31	asc. node	16400 Feb 12 12:12	17° ≈ 17'36	
	16399 Mar 16 04:21	0° Y			16400 Feb 21 00:43	0°) €	
morning set	16399 Mar 17 00:40	1° Y 42'34		morning set	16400 Feb 29 09:41	16° ¥ 23'35	
					16400 Mar 06 21:07	0° Y	
superior conj	16399 Mar 24 21:40	17° Ƴ 37'59	0°43'37				
minimum elong	16399 Mar 24 23:54	17° Ƴ 49'04	0°43'07	superior conj	16400 Mar 07 16:41	1° Y 41'40	
desc. node	16399 Mar 30 03:11	27° Ƴ 44'47		minimum elong	16400 Mar 07 19:12	1° Y 54'40	1°06'21
max. Earth dist.	16399 Mar 31 00:26	29° Y ′24′16	1.37246 AU	max. Earth dist.	16400 Mar 12 10:07	11° Υ 16'23	1.35125 AU
	16399 Mar 31 08:07	0° 8		desc. node	16400 Mar 15 23:52	18° Y 11′03	
evening rise	16399 Apr 03 17:08	6° 8 08'40		evening rise	16400 Mar 16 11:06	19° Y ′04′00	
	16399 Apr 18 05:39	0°II			16400 Mar 22 12:23	0° 8	
evening max el	16399 May 09 04:07		25°24'57		16400 Apr 11 07:54	0°Ⅱ 100Ⅲ46142	26020120
	16399 May 12 12:29	0°©		evening max el	16400 Apr 20 17:40	10° Ⅱ 46'42	26°30'29
retrograde	16399 May 21 10:00	4°904'21		retrograde	16400 May 03 18:42	18° Ⅱ 12'08	
asc. node evening set	16399 May 24 12:34	3° © 24'52 1° © 35'26		evening set asc. node	16400 May 10 02:56	15° Ⅲ 39'19 15° Ⅲ 25'14	
evening set	16399 May 27 08:27	1°€35°26 30°R∏		min. Earth dist.	16400 May 10 09:42	13° Щ 23°14 11° Щ 30'44	0.66717 AU
min. Earth dist.	16399 May 29 00:07 16399 May 31 15:29	30 KII 26°II51'34	0.68004 AU	inferior conj	16400 May 14 03:50 16400 May 16 01:58	9° П 11'21	1°38'59
	16399 May 31 15:29 16399 Jun 02 00:30	26°Щ31'34 25°Щ04'47	0.08004 AU 2°18'07	•	16400 May 16 01:38 16400 May 15 23:54	9° П 11'21 9° П 17'38	1°38'39 1°37'44
inferior conj minimum elong	16399 Jun 02 00.30 16399 Jun 01 22:22	25° I 11'44	2°16'55	minimum elong morning rise	16400 May 13 23.34 16400 May 21 21:56	9 П 1/38 3° П 30'46	1 3/44
morning rise	16399 Jun 07 12:42	19° Ⅱ 12'41	2 10 33	direct	16400 May 25 00:31	2° П 36'41	
direct	16399 Jun 11 01:40	19 Ⅱ 1241 18° Ⅱ 00'47		morning max el	16400 May 31 11:02	2 П 3041 6° П 00'35	18°22'47
morning max el	16399 Jun 17 23:28	21° II 45'58	19°06'46	desc. node	16400 Jun 12 00:24	0 П 00 33 21° П 32'57	10 22 7/
morning max ci	16399 Jun 24 19:03	0°95	17 00 70	desc. Houc	16400 Jun 17 09:51	0°95	
desc. node	16399 Jun 26 03:21	1° 9 52'29		morning set	16400 Jun 20 17:49	5° © 16'31	
greatest brilliancy	16399 Jun 30 21:27	8°9348'31	-0.7m		-0.00 van 20 17.77	2 -1031	
morning set	16399 Jul 11 17:02	25°9518'31		superior conj	16400 Jul 06 08:52	29° 5 49'11	-2°11'36
<i>5</i>	16399 Jul 14 17:59	0°Ω		minimum elong	16400 Jul 06 04:53	29°533'37	
max. Earth dist.	16399 Jul 25 04:55		1.45630 AU	U	16400 Jul 06 11:39	0°N	
				max. Earth dist.	16400 Jul 07 00:48	0° Ω 51'15	1.46027 AU
superior conj	16399 Jul 27 23:24	20° Ω 35'49	-2°12'02	evening rise	16400 Jul 22 08:00	24° Ω 43'36	
-				=			

	16400 Jul 25 16:50	0° m)		max. Earth dist.	16401 Jun 19 20:58	15° © 29'53	1.45673 AU
greatest brilliancy	16400 Jul 31 18:27	9° m 25'49	-0.8m		16401 Jun 29 05:18	$0^{\circ}\Omega$	
asc. node	16400 Aug 06 09:21	17° m 48'43		evening rise	16401 Jul 02 00:29	4° Ω 17'46	
evening max el	16400 Aug 13 13:23	26° Mp 45'33	18°51'40	greatest brilliancy	16401 Jul 16 01:56	25° Ω 27'57	-0.6m
_	16400 Aug 18 03:15	0∘ ⊽		_	16401 Jul 19 05:57	0° m)	
retrograde	16400 Aug 20 06:02	0° ჲ 24'27		asc. node	16401 Jul 24 06:09	6° Mp 38'36	10041100
avanina aat	16400 Aug 22 07:31	30°RM)		evening max el	16401 Jul 27 20:17	10° Mp 39'52	19°41'09
evening set inferior conj	16400 Aug 23 14:41 16400 Aug 29 04:03	29° Mp 19'30 23° Mp 35'47	2°32'14	retrograde evening set	16401 Aug 04 04:15 16401 Aug 07 23:04	14° Mp 46'02 13° Mp 23'18	
minimum elong	16400 Aug 29 06:09	23° m ₂ 29'10	2°31'38	inferior conj	16401 Aug 13 07:09	7° m) 27'03	2°55'45
min. Earth dist.	16400 Aug 30 21:33	21° m/ 25'01	0.66406 AU	minimum elong	16401 Aug 13 08:33	7° m) 22'22	2°55'15
morning rise	16400 Sep 03 20:41	17° m 09'05		min. Earth dist.	16401 Aug 14 10:43	5° m 55'01	0.67793 AU
desc. node	16400 Sep 07 22:17	14° m 50'04		morning rise	16401 Aug 18 17:32	1° Mp 00'40	
direct	16400 Sep 10 01:35	14° m 32'19			16401 Aug 20 00:25	30° ₽.Ω	
morning max el	16400 Sep 23 00:21	22° m 13'07	26°24'12	direct	16401 Aug 24 12:17	28° Ω 30′02	
	16400 Sep 29 20:39	0∘ ⊽		desc. node	16401 Aug 25 19:37	28° Ω 36'49	
	16400 Oct 20 04:25	0°M			16401 Aug 29 12:02	0° Mp	25005121
morning set	16400 Oct 28 21:23	15°M29'03	1 24505 ATT	morning max el	16401 Sep 05 11:25	5° ™ 39'32 0° ₽	25°05'21
max. Earth dist. asc. node	16400 Nov 01 17:49 16400 Nov 02 10:24	22°M52'42 24°M14'26	1.34585 AU	morning set	16401 Sep 24 08:06 16401 Oct 11 06:44	0° ≥ 2 27° ♀ 35'40	
asc. node	16400 Nov 05 07:11	0° √		morning set	16401 Oct 12 14:56	27 = 33 40 0°M	
	101001101 05 07.11	• •		max. Earth dist.	16401 Oct 14 19:07	3°M58'15	1.36756 AU
superior conj	16400 Nov 06 22:11	3° ∡ ¹20'10	0°39'56	asc. node	16401 Oct 20 07:13	14°ML26'19	
minimum elong	16400 Nov 06 20:12	3° ∡ ¹09'55	0°40'08				
evening rise	16400 Nov 14 08:55	18° ₹ ′58′08		superior conj	16401 Oct 21 10:47	16°M41'38	0°10'19
	16400 Nov 19 19:23	0°ರ		minimum elong	16401 Oct 21 10:07	16°M38'23	0°10'37
evening max el	16400 Dec 03 14:24	20° ප් 43'52	20°59'53	behind sun begin	16401 Oct 21 05:12	16° M ₊14'10	
desc. node	16400 Dec 04 20:06	21°る53'28		behind sun end	16401 Oct 21 15:02	17° M .02'38	
retrograde	16400 Dec 15 04:52	26° る 28'34			16401 Oct 28 01:17	0° ∡7	
evening set inferior conj	16400 Dec 17 20:43 16400 Dec 26 14:46	26°る11'47 22°る20'54	50/11/22	evening rise	16401 Oct 29 14:18 16401 Nov 14 08:15	3°♂08'12 0°る	
minimum elong	16400 Dec 26 07:29	22° る 31'14		evening max el	16401 Nov 15 21:05	0 8 1° る 38'56	19°42'34
min. Earth dist.	16400 Dec 27 11:31	21° る 51'22	0.54428 AU	desc. node	16401 Nov 21 17:12	5° る 47'15	17 1231
morning rise	16401 Jan 03 18:20	18° ට 28'10		retrograde	16401 Nov 25 20:15	6° る 37'37	
direct	16401 Jan 07 22:56	17° පි 50'17		evening set	16401 Nov 27 20:41	6° පි 26'20	
morning max el	16401 Jan 21 01:57	24° ප 14'56	23°02'04	inferior conj	16401 Dec 06 13:17	2° る 24'17	-4°27'13
	16401 Jan 26 05:24	0° ≈		minimum elong	16401 Dec 06 03:21	2° る 39'48	4°23'36
asc. node	16401 Jan 29 09:27	4°≈21'30		min. Earth dist.	16401 Dec 08 18:47	1° る 00'43	0.55236 AU
	16401 Feb 12 08:29	0° ∀			16401 Dec 10 11:43	30°₹ ⋌ ¹	
morning set	16401 Feb 12 21:09	1° ∺ 07'19		morning rise	16401 Dec 14 08:28	28° ∡ *08'42	
superior conj	16401 Feb 19 19:21	16°) €04'04	1°23'22	direct	16401 Dec 19 13:46 16401 Dec 28 07:50	27°⊀08'19 0°る	
minimum elong	16401 Feb 19 19:21 16401 Feb 19 21:27	16° X 15'17		morning max el	16402 Jan 02 10:04	0 3 4° 3 04'09	24°51'55
max. Earth dist.	16401 Feb 23 02:50			asc. node	16402 Jan 16 06:41	22° る 22'44	24 31 33
	16401 Feb 26 11:57	0°Υ			16402 Jan 20 13:59	0° ≈	
evening rise	16401 Feb 27 18:24	2° Y 31'15		morning set	16402 Jan 28 09:06	15° ≈ 47'59	
desc. node	16401 Mar 02 20:34	8° Y 28'33			16402 Feb 03 20:16	0° ∀	
	16401 Mar 15 09:45	0°8					
evening max el	16401 Apr 03 07:15	24° 8 20'07	27°16'46	superior conj	16402 Feb 04 03:02	0° ₩ 37'21	1°33'47
	16401 Apr 10 13:34	0°Ⅱ 1°Ⅱ53'06		minimum elong	16402 Feb 04 04:17	0°) 44'14	1°34'05
retrograde	16401 Apr 16 21:26 16401 Apr 22 16:05	1°Д53'06		max. Earth dist. evening rise	16402 Feb 06 03:12 16402 Feb 11 11:50	5° ∺ 01'03 16° ∺ 21'51	1.32043 AU
evening set	16401 Apr 23 12:55	29° 8 23'01		desc. node	16402 Feb 17 17:17	28° H 31'56	
asc. node	16401 Apr 27 06:54	25° 8 53'25		dese. Hode	16402 Feb 18 12:22	0° Υ	
min. Earth dist.	16401 Apr 27 09:24	25° 8 46'44	0.65020 AU		16402 Mar 10 01:06	0°8	
inferior conj	16401 Apr 29 20:04	23° 8 04'32	0°46'52	evening max el	16402 Mar 16 19:12	7° 8 26'17	27°36'29
minimum elong	16401 Apr 29 18:50	23° 8 07'59	0°45'56	retrograde	16402 Mar 30 16:44	14° 8 56'55	
morning rise	16401 May 06 02:38	17° 8 37'12		evening set	16402 Apr 06 11:56	12° 8 36'46	
direct	16401 May 08 19:51	16° 8 58'17		min. Earth dist.	16402 Apr 10 06:16	9° 8 28'14	0.62998 AU
morning max el	16401 May 15 03:02	20° 8 13'25	17°55'46	inferior conj	16402 Apr 13 03:48	6° 8 36'03	
	16401 May 22 16:04	0°II		minimum elong	16402 Apr 13 04:25	6° 8 34'29	0°19'25
desc. node	16401 May 29 21:23 16401 Jun 01 21:41	11° П 34'20 16° П 32'23		asc. node	16402 Apr 14 04:11	5° 8 36'07 1° 8 24'25	
morning set	16401 Jun 01 21:41 16401 Jun 10 03:11	16°Щ32′23		morning rise direct	16402 Apr 19 23:39 16402 Apr 22 08:41	0° 8 57'29	
	10-101 Juli 10 UJ.11	~		morning max el	16402 Apr 28 20:41	4° 8 15'25	17°46'10
superior conj	16401 Jun 15 23:58	9° 5 23'22	-1°51'59	morning set	16402 May 15 02:45	28° 8 59'07	
minimum elong	16401 Jun 15 15:32	8°949'57		Č	16402 May 15 16:50	0°II	

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desc. node

16404 Apr 19 11:56

12°845'38

superior conj	16404 Apr 20 02:07	13° 8 50'40	-0°04'58	superior conj	16405 Apr 03 02:16	27° Y 05′10	0°27'31
minimum elong	16404 Apr 20 01:43	13° 8 48'49	0°05'19	minimum elong	16405 Apr 03 03:54	27° Ƴ 13′02	0°27'00
behind sun begin	16404 Apr 19 18:48	13° 8 17'10			16405 Apr 04 14:47	8° 0	
behind sun end	16404 Apr 20 08:38	14° 8 20'24		desc. node	16405 Apr 06 08:39	3° 8 17'18	
max. Earth dist.	16404 Apr 27 15:03	27° 8 10'47	1.40840 AU	max. Earth dist.	16405 Apr 09 20:59	9° 8 44'19	1.38546 AU
	16404 Apr 29 06:56	$\Pi^{\circ}0$		evening rise	16405 Apr 13 14:47	16° 8 20'47	
evening rise	16404 May 02 00:52	4° ∏ 34'25		8	16405 Apr 21 20:25	0°II	
evening rise	16404 May 18 13:56	0°೨೦			16405 May 13 03:01	0°©	
avaning may al	16404 Jun 05 07:23	22° © 24'01	23°20'52	evening max el	16405 May 18 20:55	6°919'11	24°41'38
evening max el			23 20 32	•	•		24 41 36
asc. node	16404 Jun 13 20:51	28°519'22		retrograde	16405 May 30 13:44	13°509'04	
retrograde	16404 Jun 15 21:23	28°536'50		asc. node	16405 May 31 17:51	13°503'19	
evening set	16404 Jun 21 01:57	26° © 24'11		evening set	16405 Jun 05 05:44	10° © 45'02	
inferior conj	16404 Jun 26 10:10	19° © 58'46	2°56'20	min. Earth dist.	16405 Jun 09 16:58	5° © 39'47	0.68526 AU
minimum elong	16404 Jun 26 08:51	20° © 03'18	2°55'31	inferior conj	16405 Jun 10 18:24	4°ഇ15'00	2°35'17
min. Earth dist.	16404 Jun 25 21:43	20° © 41'41	0.69077 AU	minimum elong	16405 Jun 10 16:27	4° 5 21'30	2°34'13
morning rise	16404 Jul 01 15:43	13° © 51'07			16405 Jun 14 05:13	30° Ŗ Ⅱ	
direct	16404 Jul 05 22:28	12° © 08'45		morning rise	16405 Jun 16 03:22	28° Ⅱ 16′39	
morning max el	16404 Jul 14 05:49	16°953'45	20°48'14	direct	16405 Jun 19 22:36	26° Ⅱ 53'46	
desc. node	16404 Jul 16 11:26	19° © 16'14			16405 Jun 26 06:02	0ංම	
	16404 Jul 24 20:47	$0^{\circ}\Omega$		morning max el	16405 Jun 27 06:38	0° © 57'35	19°39'27
morning set	16404 Aug 13 01:50	28° Ω 28'02		desc. node	16405 Jul 03 08:35	8°906'41	
morning sec	16404 Aug 14 01:30	0° m)		greatest brilliancy	16405 Jul 10 06:34	17°5649'14	-0.6m
max. Earth dist.	16404 Aug 21 04:31		1.43559 AU	greatest oriniancy	16405 Jul 18 10:08	0°Ω	-0.0111
max. Lartii dist.	10404 Aug 21 04.51	11 11/17/00	1.43339 AU	marning act		7° Ω 22'43	
	16404 A 27 22-22	220 m 27/21	1927/27	morning set	16405 Jul 23 06:12		1 450CO ATT
superior conj	16404 Aug 27 23:32	22° m 26'21		max. Earth dist.	16405 Aug 03 18:43	25° Ω 16'50	1.45068 AU
minimum elong	16404 Aug 28 07:12	22° m 58'27	1°35'43		16405 Aug 06 18:12	0° m)	
	16404 Sep 01 10:33	0∘ ⊽					
evening rise	16404 Sep 09 01:29	13° Ω 18'48		superior conj	16405 Aug 08 07:55	2° m 30'32	
asc. node	16404 Sep 09 21:27	14° ≏ 46'56		minimum elong	16405 Aug 08 14:45	2° m 57'53	2°03'17
	16404 Sep 18 19:07	0°M₊		evening rise	16405 Aug 22 04:50	25° m 17'19	
evening max el	16404 Sep 25 13:18	8°M57'56	18°01'25		16405 Aug 25 00:14	0∘ ⊽	
retrograde	16404 Oct 02 04:52	12° M 24'07		asc. node	16405 Aug 27 18:08	4° £ 35′05	
evening set	16404 Oct 04 14:20	11° M 57'09		evening max el	16405 Sep 09 04:16	22° ≏ 25'38	18°07'06
inferior conj	16404 Oct 11 08:40	6° ™ 54'07	0°18'51	retrograde	16405 Sep 15 13:04	25° ≙ 46'11	
minimum elong	16404 Oct 11 09:15	6° ™ 52'41	0°18'58	evening set	16405 Sep 18 07:07	25° ≏ 06′20	
desc. node	16404 Oct 12 08:47	5°M54'53		inferior conj	16405 Sep 24 11:30	19° ≙ 45'50	1°24'41
min. Earth dist.	16404 Oct 14 10:00	3° ™ 56'12	0.61203 AU	minimum elong	16405 Sep 24 13:32	19° ≙ 40'14	1°24'09
morning rise	16404 Oct 18 01:13	0° ™ 58'28		min. Earth dist.	16405 Sep 27 02:16	16° ≏ 54'15	0.63441 AU
•	16404 Oct 19 16:40	30° Ŗ Ω		desc. node	16405 Sep 29 06:05	14° ≙ 46'11	
direct	16404 Oct 24 17:33	28° ≏ 43'06		morning rise	16405 Sep 30 17:54	13° ≏ 31'37	
	16404 Oct 30 01:23	0°M		direct	16405 Oct 07 09:24	11° ≙ 01'05	
morning max el	16404 Nov 07 22:18		27°58'40	morning max el	16405 Oct 21 07:03	18° ≏ 59'24	27°46'23
morning man er	16404 Nov 25 15:46	0° ⊼	2, 50.0	morning man er	16405 Oct 30 15:45	0°M	27 1025
asc. node	16404 Dec 06 21:59	20° ₹ 00'23			16405 Nov 18 14:18	0° ∡ ¹	
morning set	16404 Dec 11 05:36	28° × ⁷ 42'54		asc. node	16405 Nov 23 18:57	9° ∡ 154'22	
morning set	16404 Dec 11 20:21	0°る		morning set	16405 Nov 25 00:31	12° x 21'58	
may Forth dist		0 8 10° 8 58'22	1 21255 ATT	=	16405 Nov 29 22:28	22° x ⁷ 34'05	1 22112 ATT
max. Earth dist.	16404 Dec 16 22:22	10 03822	1.31255 AU	max. Earth dist.	10403 NOV 29 22.28	22 x ·34 03	1.32112 AU
aumani ·	16404 D 10 11 27	14070245	1020120	aumoni	16405 D 02 10 57	200.7142145	101/122
superior conj	16404 Dec 18 11:27	14° る 23'45		superior conj	16405 Dec 02 18:57		1°14'33
minimum elong	16404 Dec 18 09:44	14°る14'12	1°29'01	minimum elong	16405 Dec 02 16:40	28° ∡ ³31'18	1°14'54
evening rise	16404 Dec 25 04:06	29°る12'17			16405 Dec 03 08:56	0°₹	
	16404 Dec 25 12:56	0° ≈		evening rise	16405 Dec 09 14:48	13° る 39'28	
desc. node	16405 Jan 08 07:36	26° ≈ 06'19			16405 Dec 17 16:29	0° ≈	
	16405 Jan 10 20:47	0° ∀		desc. node	16405 Dec 26 04:29	13° ≈ 50′27	
evening max el	16405 Jan 20 20:07	12° ∺ 07'19	25°15'45	evening max el	16406 Jan 02 06:23	22° ≈ 11'27	23°35'46
retrograde	16405 Feb 03 16:47	19°) 04'46		retrograde	16406 Jan 15 15:45	28° ≈ 49′02	
evening set	16405 Feb 09 08:40	17° ¥ 52′22		evening set	16406 Jan 20 05:41	28° ≈ 03'42	
min. Earth dist.	16405 Feb 14 08:43	15°) €09'18	0.56510 AU	min. Earth dist.	16406 Jan 26 17:36	24° ≈ 57'49	0.55049 AU
inferior conj	16405 Feb 17 00:49	13°) €24'13	-4°38'42	inferior conj	16406 Jan 28 07:37	24° ≈ 02'16	-5°44'36
minimum elong	16405 Feb 17 10:18	13°) €08'39	4°35'51	minimum elong	16406 Jan 28 14:01	23° ≈ 52'53	5°43'19
morning rise	16405 Feb 25 14:40	9°) 13'48		morning rise	16406 Feb 05 23:48	20° ≈ 08'32	
direct	16405 Feb 27 15:55	9°) €01'36		direct	16406 Feb 08 13:54	19° ≈ 52'06	
asc. node	16405 Mar 04 20:02	10°) €24'26		morning max el	16406 Feb 19 12:56	25°≈10'51	20°25'22
morning max el	16405 Mar 09 01:03	13°) (36'33	19°12'37	asc. node	16406 Feb 19 17:21	25° ≈ 21'37	
<i>5</i>	16405 Mar 20 05:54	0° Υ			16406 Feb 23 17:54	0°) €	
	10403 Mai 20 03.34	U I			10700100 23 17.37		
morning set		10° Υ 39'39		morning set			
morning set	16405 Mar 25 18:29			morning set	16406 Mar 10 01:08 16406 Mar 12 08:07	25° X 16′20 0° Υ	

superior conj	16406 Mar 17 15:30	10° Ƴ 53'59	0°54'10	morning set	16407 Feb 22 11:29	9° ¥ 59'14	
minimum elong	16406 Mar 17 13:50	10 γ 33 39 11° γ 06'25	0°53'43	morning set	10407 Feb 22 11.29	9 ДЗ914	
max. Earth dist.	16406 Mar 23 04:15	21° Υ 47'37	1.36308 AU	superior conj	16407 Mar 01 14:07	25° ₩ 06'13	1°14'32
desc. node	16406 Mar 24 05:21	23° Υ 46'49	1.50500110	minimum elong	16407 Mar 01 16:31	25° X 18'51	1°14'20
evening rise	16406 Mar 26 23:36	28° Y ′54'16			16407 Mar 03 22:27	0°Υ	
	16406 Mar 27 14:04	0°8		max. Earth dist.	16407 Mar 05 17:04	3° Ƴ 37'48	1.34324 AU
	16406 Apr 15 02:59	0°II		evening rise	16407 Mar 09 23:40	12° Y '03'55	
evening max el	16406 May 01 10:35	20° Ⅱ 12'37	25°54'50	desc. node	16407 Mar 11 02:04	14° Ƴ 09'37	
retrograde	16406 May 14 01:25	27° Ⅱ 27'53			16407 Mar 19 23:57	0°B	
asc. node	16406 May 18 14:57	26° Ⅱ 04'52			16407 Apr 10 06:31	$\Pi^{\circ}0$	
evening set	16406 May 20 04:08	24° Ⅱ 56'55		evening max el	16407 Apr 14 00:24	3° Ⅱ 55'45	26°53'00
min. Earth dist.	16406 May 24 08:28	20° Ⅱ 28′06	0.67508 AU	retrograde	16407 Apr 27 07:26	11° Ⅱ 24'51	
inferior conj	16406 May 25 22:59	18° Ⅱ 26'44	2°03'03	evening set	16407 May 03 19:13	8° Ⅲ 52′26	
minimum elong	16406 May 25 20:48	18° Ⅱ 33'39	2°01'48	asc. node	16407 May 05 12:07	7° Ⅱ 21'51	
morning rise	16406 May 31 14:07	12° Ⅱ 39'04		min. Earth dist.	16407 May 07 18:06	4° Ⅱ 58′07	0.66046 AU
direct	16406 Jun 03 22:37	11° Ⅱ 34'51		inferior conj	16407 May 09 21:39	2° Ⅱ 27'54	1°18'33
morning max el	16406 Jun 10 14:34	15° Ⅱ 09'25	18°46'00	minimum elong	16407 May 09 19:49	2° Ⅱ 33'15	1°17'22
desc. node	16406 Jun 20 05:41	27° Ⅱ 31'34			16407 May 12 02:16	30° ₹ 8	
	16406 Jun 21 21:38	0 \circ \odot		morning rise	16407 May 15 21:45	26° 8 52'41	
greatest brilliancy	16406 Jun 24 13:21	4° © 01'24	-0.8m	direct	16407 May 18 20:20	26° 8 05'14	
morning set	16406 Jul 02 18:38	16° © 44'27		morning max el	16407 May 25 04:17	29° 8 23'35	18°09'14
	16406 Jul 11 07:12	$0^{\circ}\Omega$			16407 May 25 18:50	0°II	
max. Earth dist.	16406 Jul 17 13:39	9° Ω 45'54	1.45898 AU	desc. node	16407 Jun 07 02:42	17° Ⅱ 21'16	
	16406 7 1 10 22 00	0	201.412.1	morning set	16407 Jun 13 06:37	27° Ⅱ 14'40	
superior conj	16406 Jul 18 22:00	11° Ω 52'13			16407 Jun 14 23:45	0ංම	
minimum elong	16406 Jul 18 22:33	11° Ω 54'21	2°14′53		16407 I 20 07.41	2196509117	2005122
	16406 Jul 30 10:11	0°M)		superior conj	16407 Jun 28 07:41	21°908'16	
evening rise asc. node	16406 Aug 03 08:00	6° Mp 14'13		minimum elong max. Earth dist.	16407 Jun 28 01:04 16407 Jun 30 10:29	20°542'23 24°526'46	2°05'39 1.45969 AU
asc. node	16406 Aug 14 14:51 16406 Aug 18 15:52	24°Mp05'56 0°₽		max. Earm dist.	16407 Jul	24 3 26 46 0°Ω	1.43909 AU
evening max el	16406 Aug 23 18:04	0 = 6° ჲ 08'55	18°30'29	evening rise	16407 Jul 14 10:55	16° Ω 11'58	
retrograde	16406 Aug 30 05:14	9° £ 37'05	16 30 29	evening rise	16407 Jul 23 10:11	0° m	
evening set	16406 Sep 02 08:29	9° ჲ 41'40		greatest brilliancy	16407 Jul 26 00:41	3° Mp 56'06	-0.7m
inferior conj	16406 Sep 08 02:21	3° £ 05'50	2°12'12	asc. node	16407 Aug 01 11:38	13° m) 13'05	0.7111
minimum elong	16406 Sep 08 04:38	2° £ 58'53	2°11'34	evening max el	16407 Aug 07 04:00	20° m) 00'35	19°10'47
min. Earth dist.	16406 Sep 10 03:47	0° £ 36'54	0.65431 AU	retrograde	16407 Aug 14 02:07	23° m/49'34	1, 10 1,
	16406 Sep 10 16:29	30°R, Mp		evening set	16407 Aug 17 15:05	22° m/36'57	
morning rise	16406 Sep 13 23:33	26° m) 41'47		inferior conj	16407 Aug 23 01:48	16° mp 47'32	2°43'49
desc. node	16406 Sep 16 03:25	25° m 12'48		minimum elong	16407 Aug 23 03:39	16° mp 41'32	
direct	16406 Sep 20 09:21	24° m/05'04		min. Earth dist.	16407 Aug 24 13:15	14° m 52'43	0.67049 AU
	16406 Oct 01 18:03	0∘ 亚		morning rise	16407 Aug 28 15:32	10° m 20'30	
morning max el	16406 Oct 03 18:11	1° £ 55'32	27°01'30	desc. node	16407 Sep 03 00:45	7° Mp 47'26	
	16406 Oct 24 20:06	0°M		direct	16407 Sep 03 16:17	7° m 45'47	
morning set	16406 Nov 08 09:11	25°M31'12		morning max el	16407 Sep 16 05:47	15° m 14'38	25°52'29
asc. node	16406 Nov 10 15:50	29°M58'39			16407 Sep 28 09:31	0∘ 亚	
	16406 Nov 10 16:07	0° ∡ ¹			16407 Oct 17 15:58	0° M	
max. Earth dist.	16406 Nov 12 13:57	3° ∡ ¹50′09	1.33539 AU	morning set	16407 Oct 22 04:15	8°ML03'51	
				max. Earth dist.	16407 Oct 25 20:06	14°M55'30	1.35470 AU
superior conj	16406 Nov 16 21:19	12° ∡ ¹46′20	0°54'22	asc. node	16407 Oct 28 12:41	20°M09'10	
minimum elong	16406 Nov 16 19:00	12° ∡ ³34′07	0°54'35				
evening rise	16406 Nov 24 01:05	28° ₹ '04'06		superior conj	16407 Oct 31 15:53	26°M25'20	
	16406 Nov 24 23:00	5°0		minimum elong	16407 Oct 31 14:19	26°M17'27	0°28'17
	16406 Dec 12 17:05	0° ≈			16407 Nov 02 09:55	0° ⊼ ¹	
desc. node	16406 Dec 13 01:27	0°≈23'21	21952117	evening rise	16407 Nov 08 08:59	12° メ 21'47 0°る	
evening max el	16406 Dec 14 17:56	2°≈08'42	21-33-16	avanina may al	16407 Nov 17 11:57	12°る36'08	20024112
retrograde	16406 Dec 27 03:23	8°≈16'14 7°≈51'41		evening max el	16407 Nov 26 16:06	12 33008 15° る 22'30	20 24 12
evening set inferior conj	16406 Dec 30 10:53 16407 Jan 08 00:21	4°≈01'31	-6°00'36	desc. node retrograde	16407 Nov 29 22:30 16407 Dec 07 14:09	13° る 22′30	
minimum elong	16407 Jan 08 00.21 16407 Jan 07 21:52	4 ≈0131 4°≈04'58	5°59'55	evening set	16407 Dec 07 14:09 16407 Dec 09 21:39	18 3 01 39	
min. Earth dist.	16407 Jan 07 22:50	4 ≈04 38 4°≈03'38	0.54390 AU	inferior conj	16407 Dec 19 21:39	17 848 30 13° る 53'48	-5°15'18
morning rise	16407 Jan 16 09:35	4 ≈03 38 0°≈13'57	5.57570 AU	minimum elong	16407 Dec 18 07:15	13 3 3348 14° る 07'33	
	16407 Jan 17 11:03	30°RZ		min. Earth dist.	16407 Dec 20 04:24		0.54666 AU
direct	16407 Jan 19 23:05	29° ප් 46'03		morning rise	16407 Dec 26 16:25	9° ප 53'41	
	16407 Jan 22 09:55	0° ≈		direct	16407 Dec 31 07:57	9° ට 07'07	
morning max el	16407 Feb 01 09:40	5° ≈ 47'47	22°00'19	morning max el	16408 Jan 13 19:55	15° ⋜ 45'30	23°49'16
asc. node	16407 Feb 06 14:38	11° ≈ 44'28		asc. node	16408 Jan 24 11:54	29° る 14'37	
	16407 Feb 17 14:14	0°)			16408 Jan 24 23:25	0° ≈	

morning set	16408 Feb 06 23:24	24° ≈ 42′26		asc. node	16409 Jan 10 09:06	17° る 35'25	
	16408 Feb 09 10:05	0° ∀			16409 Jan 16 23:47	0° ≈	
				morning set	16409 Jan 21 11:01	9° ≈ 20′25	
superior conj	16408 Feb 13 19:14	9°) (34′03	1°28'32				
minimum elong	16408 Feb 13 21:01	9°) 43′39		superior conj	16409 Jan 28 04:25	24° ≈ 10′22	1°36'21
max. Earth dist.	16408 Feb 16 13:14	15° ¥ 29'04	1.32739 AU	minimum elong	16409 Jan 28 05:15	24°≈14'56	1°36'45
evening rise	16408 Feb 21 11:38	25°) 41′34		max. Earth dist.	16409 Jan 29 16:04	27° ≈ 27'26	1.31632 AU
	16408 Feb 23 16:00	0°Υ			16409 Jan 30 19:52	0° ∀	
desc. node	16408 Feb 25 22:46	4° Υ 21'28		evening rise	16409 Feb 04 08:32	9°) (39'59	
	16408 Mar 12 10:05	0°8	25020141	desc. node	16409 Feb 11 19:31	24°) € 17'09	
evening max el	16408 Mar 26 13:20	17° 8 17'58	2/°28'41		16409 Feb 15 00:14	$^{\circ \gamma}$	
retrograde	16408 Apr 09 07:01	24° 8 50'59			16409 Mar 08 20:22	0°8	27925114
evening set	16408 Apr 16 00:49	22° 8 23'55	0.64106.411	evening max el	16409 Mar 08 23:38	0° 8 07'51	2/3514
min. Earth dist.	16408 Apr 19 19:56	19° 8 00'28	0.64196 AU	retrograde	16409 Mar 22 23:10	7° と 36'32 5° と 22'30	
asc. node	16408 Apr 21 09:22	17 8 22 17	0°20'30	evening set min. Earth dist.	16409 Mar 29 18:23	2° 6 23'55	0.62059 AU
inferior conj minimum elong	16408 Apr 22 11:40 16408 Apr 22 11:05	16° 8 13'39	0°20'30 0°19'52	IIIII. Eartii tiist.	16409 Apr 02 12:38 16409 Apr 05 01:59	2 O 23 33 30° ₹ Υ	0.02039 AU
morning rise	16408 Apr 28 23:37	10° 8 51'26	0 1932	inforior aoni	16409 Apr 05 13:55	29° Υ 31'42	0051144
direct	16408 May 01 13:14	10° 8 18'02		inferior conj minimum elong	16409 Apr 05 15:42	29° 13142 29° 13142	0°51'17
morning max el	16408 May 07 21:22	13° 8 32'40	17°49'34	asc. node	16409 Apr 08 06:37	29 γ 27 29 27° γ ′06'43	0 3117
morning max er	16408 May 19 12:21	0° Ⅱ	1/4934	morning rise	16409 Apr 12 16:10	24° Y 27'57	
desc. node	16408 May 23 23:39	7° П 28'53		direct	16409 Apr 14 22:03	24° Y 05'13	
morning set	16408 May 24 21:41	7 П 28 33		morning max el	16409 Apr 21 14:52	24 γ 03 13 27° Υ 28'01	17°47'34
morning set	16408 Jun 06 14:15	0° ©		morning max er	16409 Apr 23 21:51	0° 8	1/4/34
	10406 Juli 00 14.13	0 39		morning set	16409 May 07 11:50	21° 8 53'30	
superior conj	16408 Jun 07 05:34	1° © 01'38	1030113	desc. node	16409 May 10 20:32	27° 8 49'12	
minimum elong	16408 Jun 06 21:07	0°927'36		desc. node	16409 May 12 02:23	27 O 4912 0° Ⅱ	
max. Earth dist.	16408 Jun 12 06:08	9° 5 01'24	1.45295 AU		10409 Way 12 02.23	υд	
evening rise	16408 Jun 22 22:41	25°936'18	1.43293 AU	superior conj	16409 May 19 01:27	11° ∏ 56'28	-1°03'34
evening rise	16408 Jun 25 19:55	0°Ω		minimum elong	16409 May 18 19:38	11° Д 30'28	
	16408 Jul 16 19:46	0°m)		max. Earth dist.	16409 May 25 22:28		1.43955 AU
asc. node	16408 Jul 18 08:27	1°Mp47'27		max. Earth dist.	16409 May 30 04:04	0°95	1.43733710
evening max el	16408 Jul 20 08:15	3° mp 54'45	20°06'45	evening rise	16409 Jun 02 12:01	5° © 12'06	
retrograde	16408 Jul 28 01:03	8° Mp 16'27	20 00 .5	evening rise	16409 Jun 19 04:13	0° Ω	
evening set	16408 Aug 01 00:21	6° mp 45'58		evening max el	16409 Jul 03 06:29	17° Ω 49'30	21°15'50
inferior conj	16408 Aug 06 07:02	0° mp 44'30	3°01'54	asc. node	16409 Jul 05 05:19	19° Ω 38'11	21 1000
minimum elong	16408 Aug 06 08:04	0° mp 41'00	3°01'26	retrograde	16409 Jul 11 23:58	22° Ω 52′29	
	16408 Aug 06 20:06	30°R Ω		evening set	16409 Jul 16 10:16	21° Ω 04'28	
min. Earth dist.	16408 Aug 07 04:42		0.68232 AU	inferior conj	16409 Jul 21 15:41	14° Ω 52'22	3°08'09
morning rise	16408 Aug 11 15:23	24° Ω 19'19		minimum elong	16409 Jul 21 15:46	14° Ω 52'04	3°07'39
direct	16408 Aug 17 05:09	21° Ω 53'34		min. Earth dist.	16409 Jul 21 23:57	14° Ω 23'35	0.68949 AU
desc. node	16408 Aug 19 22:05	22° Ω 22'45		morning rise	16409 Jul 26 21:00	8° Ω 32′26	
morning max el	16408 Aug 28 16:54	28° Ω 46′08	24°28'39	direct	16409 Jul 31 22:54	6° Ω 20'54	
	16408 Aug 29 21:22	0° m y		desc. node	16409 Aug 06 19:20	8° Ω 36'50	
	16408 Sep 21 03:13	0∘ ত		morning max el	16409 Aug 11 04:30	12° Ω 25′24	22°59'30
morning set	16408 Oct 03 05:37	19° ≙ 50′00			16409 Aug 25 06:57	0° m	
max. Earth dist.	16408 Oct 06 19:39	26° ≙ 10'42	1.37761 AU		16409 Sep 13 23:23	0∘ ত	
	16408 Oct 08 22:00	0° M		morning set	16409 Sep 14 09:13	0° ჲ 40'30	
				max. Earth dist.	16409 Sep 18 18:46	8° ഫ 03'34	1.40181 AU
superior conj	16408 Oct 13 23:17	9° ™ 32′10					
minimum elong	16408 Oct 13 23:31	9°M33'18	0°03'25	superior conj	16409 Sep 26 15:35	21° ≏ 58'11	-0°39'45
behind sun begin	16408 Oct 13 16:52	9°M01'15		minimum elong	16409 Sep 26 18:40	22° £ 12'12	0°39'02
behind sun end	16408 Oct 14 06:09	10°M05'25			16409 Sep 30 23:23	0° M	
asc. node	16408 Oct 14 09:29	10° ™ 21'34		asc. node	16409 Oct 01 06:14	0° ™ 32'14	
evening rise	16408 Oct 22 12:02	26°M25'42		evening rise	16409 Oct 06 07:19	10°M08'51	
	16408 Oct 24 07:10	0° ∡			16409 Oct 17 12:05	0° ∡	
evening max el	16408 Nov 08 04:55	23° ≯ 52'50	19°16'23	evening max el	16409 Oct 22 06:26		18°30'58
desc. node	16408 Nov 15 19:37	28° ₹ 23'59		retrograde	16409 Oct 30 04:44	10° 尽 00'02	
retrograde	16408 Nov 17 12:11	28° ∡ ³32'57		evening set	16409 Nov 01 03:47	9° ∡ ¹46'02	
evening set	16408 Nov 19 09:59	28° ₹ 22'01		desc. node	16409 Nov 02 16:45	9° √ 16'37	
inferior conj	16408 Nov 27 22:18	24° √ 12'14		inferior conj	16409 Nov 09 00:51	5° ₹ 15'25	
minimum elong	16408 Nov 27 13:18	24° ₹ 27'11	3°42'06	minimum elong	16409 Nov 08 20:00	5° ₹ 24'50	
min. Earth dist.	16408 Nov 30 13:46	22° ₹ 26'58	0.55831 AU	min. Earth dist.	16409 Nov 12 05:28	2° √ 47'47	0.57673 AU
morning rise	16408 Dec 05 14:15	19° ∡ 42'01		morning rise	16409 Nov 16 08:50	0° √ 08'41	
direct	16408 Dec 11 03:58	18° ₹ 30'55	25025-0		16409 Nov 16 15:45	30°RM	
morning max el	16408 Dec 25 05:00	25° ∡ 38'28	25°35'28	direct	16409 Nov 22 14:26	28°M30'34	
	16408 Dec 29 07:17	0°ප			16409 Nov 28 16:14	0° ∡ 7	

mamina may al	16400 Day 06 20:12	6° √ 00'15	26950129		16410 Nov. 20, 11:52	0° ∡ 7	
morning max el	16409 Dec 06 20:13	0°중	20-39-38	1-	16410 Nov 29 11:52	0° x ¹ 26° x ¹00'22	
1-	16409 Dec 24 13:34 16409 Dec 28 06:13	6° る 33'58		asc. node	16410 Dec 15 03:17	26° x '00'22	
asc. node morning set	16410 Jan 05 20:32	6 3 33 38 23° る 48'14		morning set	16410 Dec 17 04:15 16410 Dec 21 02:06	0 3 8° ろ 01'36	
morning set	16410 Jan 08 16:44	23 ○ 46 14 0° ≈		morning set max. Earth dist.	16410 Dec 27 06:22		1.31025 AU
	10410 Jan 08 10.44	0 ~		max. Earm dist.	10410 Dec 27 00.22	21 03029	1.31023 AU
superior conj	16410 Jan 12 15:34	8° ≈ 48'56	1°38'04	superior conj	16410 Dec 28 02:49	23° る 24'43	1°33'46
minimum elong	16410 Jan 12 15:20	8° ≈ 47'38	1°38'37	minimum elong	16410 Dec 28 01:35	23° る 17'49	1°34'19
max. Earth dist.	16410 Jan 12 22:55	9° ≈ 30'07	1.31056 AU		16410 Dec 31 01:30	0° ≈	
evening rise	16410 Jan 19 11:54	23° ≈ 52'53		evening rise	16411 Jan 03 19:37	8°≈15'23	
	16410 Jan 22 10:21	0° ∀			16411 Jan 14 21:13	0° ∀	
desc. node	16410 Jan 29 16:16	13°){ 49′28		desc. node	16411 Jan 16 13:03	2°){ 49'55	
	16410 Feb 08 21:04	0° Y		evening max el	16411 Feb 01 02:23	23°) €25'37	26°05'06
evening max el	16410 Feb 19 04:50	12° Y 13'00	27°07'37		16411 Feb 11 11:17	0° Y	
retrograde	16410 Mar 05 06:00	19° Y 31'14		retrograde	16411 Feb 15 01:31	0° Y 30'33	
evening set	16410 Mar 11 20:45	17° Ƴ 37'37			16411 Feb 18 15:16	30° ₹ ₩	
min. Earth dist.	16410 Mar 15 19:09	14° Y 55'12	0.59795 AU	evening set	16411 Feb 21 04:27	29°) €02'18	
inferior conj	16410 Mar 19 00:37	12° Y 16'08	-2°16'55	min. Earth dist.	16411 Feb 25 15:30	26° ¥ 24′10	0.57625 AU
minimum elong	16410 Mar 19 05:49	12° Y 05'25	2°14'57	inferior conj	16411 Feb 28 16:07	24°) 1 5′20	-3°48'33
asc. node	16410 Mar 26 03:54	7° Y '42'33		minimum elong	16411 Mar 01 00:43	24° ∺ 00'01	3°45'34
morning rise	16410 Mar 26 18:28	7° Ƴ 31'54		morning rise	16411 Mar 09 00:11	19° ¥ 52'37	
direct	16410 Mar 28 18:51	7° Y 16′10		direct	16411 Mar 10 23:17	19°) 4 0′10	
morning max el	16410 Apr 05 05:12	10° Y ′58′23	18°04'13	asc. node	16411 Mar 13 01:10	19° ¥ 54'47	
	16410 Apr 17 19:02	0°8		morning max el	16411 Mar 19 12:31	23° ¥ 52'42	18°41'16
morning set	16410 Apr 20 19:08	5° 8 32'06			16411 Mar 24 11:49	0° Υ	
desc. node	16410 Apr 27 17:21	18° 8 17'07		morning set	16411 Apr 04 14:27	19° Y ′42'12	
					16411 Apr 09 22:05	0°B	
superior conj	16410 Apr 30 20:24	23° 8 53'23					
minimum elong	16410 Apr 30 18:15	23° 8 43'51	0°25'52	superior conj	16411 Apr 13 11:12	6° 8 43'29	0°09'28
79 of 18 o	16410 May 04 08:19	0°II	1 40005 444	minimum elong	16411 Apr 13 11:50	6° 8 46'24	0°09'02
max. Earth dist.	16410 May 08 10:29	6° Ⅱ 56'08	1.42087 AU	behind sun begin	16411 Apr 13 06:04	6° 8 19'24	
evening rise	16410 May 13 16:52	15° Ⅱ 32'39		behind sun end	16411 Apr 13 17:36	7° 8 13'20	
	16410 May 23 00:36	0° ©		desc. node	16411 Apr 14 14:08	8° 8 48'48	1 20004 411
·	16410 Jun 14 07:37	0° Ω	2202401	max. Earth dist.	16411 Apr 20 18:32	19° 8 56'25	1.39884 AU
evening max el	16410 Jun 15 23:43	1°Ω44'09 6°Ω30'15	22°34'01	evening rise	16411 Apr 24 18:47	26° 8 48'40 0° Ⅱ	
asc. node	16410 Jun 22 02:14 16410 Jun 25 21:12	7° Ω 31'35			16411 Apr 26 16:45	0.2€	
retrograde evening set	16410 Jun 30 19:04	5° Ω 27'20		evening max el	16411 May 16 14:54 16411 May 29 14:02	15° © 39'25	23°55'38
evening set	16410 Jul 05 10:13	30°R95		asc. node	16411 Jun 08 23:11	22° © 06'24	23 33 36
inferior conj	16410 Jul 06 01:39	29° © 06'21	3°03'38	retrograde	16411 Jun 09 15:34	22°508'23	
minimum elong	16410 Jul 06 00:48	29° 5 00'21	3°02'58	evening set	16411 Jun 15 01:09	19° 9 50'21	
min. Earth dist.	16410 Jul 05 20:47	29° 5 23'17	0.69177 AU	min. Earth dist.	16411 Jun 19 17:06	14°523'57	0.68910 AU
morning rise	16410 Jul 11 06:24	22°953'48	0.07177710	inferior conj	16411 Jun 20 11:03	13°S22'46	2°48'41
direct	16410 Jul 15 20:09	21°500'07		minimum elong	16411 Jun 20 09:26	13°528'16	2°47'46
desc. node	16410 Jul 24 16:34	26°\$05'54		morning rise	16411 Jun 25 17:45	7° © 19'06	_ ,, ,,
morning max el	16410 Jul 24 19:15	26°512'33	21°33'31	direct	16411 Jun 29 19:37	5°9544'57	
	16410 Jul 28 06:30	$0^{\circ}\Omega$		morning max el	16411 Jul 07 16:02	10°9510'34	20°17'13
	16410 Aug 18 18:10	0° m/		desc. node	16411 Jul 11 13:47	14° © 31'04	
morning set	16410 Aug 25 13:04	10° m/30'48			16411 Jul 22 21:20	$0^{\circ}\Omega$	
max. Earth dist.	16410 Aug 31 23:15	20° m 51'09	1.42440 AU	morning set	16411 Aug 04 21:59	19° Ω 35′01	
	16410 Sep 06 10:37	0∘ ⊽			16411 Aug 11 14:34	0° m)	
				max. Earth dist.	16411 Aug 14 10:44	4° m 30'11	1.44278 AU
superior conj	16410 Sep 08 12:22	3° ₽ 33'12	-1°16'41				
minimum elong	16410 Sep 08 18:42	4° △ 00'31	1°15'50	superior conj	16411 Aug 20 10:03	14°Mp09'31	-1°49'20
asc. node	16410 Sep 18 02:58	20° ჲ 37'39		minimum elong	16411 Aug 20 18:00	14° Mp 42'06	1°48'51
evening rise	16410 Sep 19 14:59	23° ჲ 21'23			16411 Aug 29 20:40	0∘ ⊽	
	16410 Sep 23 06:59	0° M		evening rise	16411 Sep 02 06:12	5° ≏ 50'50	
evening max el	16410 Oct 05 16:23	18° M 44'27	18°06'36	asc. node	16411 Sep 04 23:40	10° ≏ 33'22	
retrograde	16410 Oct 12 16:01	22°M19'32			16411 Sep 17 11:01	0° M	
evening set	16410 Oct 14 21:11	21°M58'17		evening max el	16411 Sep 19 06:31	1°M59'02	18°01'38
desc. node	16410 Oct 20 13:56	18°M23'17		retrograde	16411 Sep 25 18:01	5°M21'22	
inferior conj	16410 Oct 22 00:49	17°M06'15		evening set	16411 Sep 28 07:04	4° M 49'13	
minimum elong	16410 Oct 21 23:52	17° ™ 08′24	0°27'01		16411 Oct 04 10:30	30° ₹ Ω	
min. Earth dist.	16410 Oct 25 05:48	14° ™ 13'50	0.59880 AU	inferior conj	16411 Oct 04 19:01	29° △ 38'07	0°49'08
morning rise	16410 Oct 28 23:18	11°M26'16		minimum elong	16411 Oct 04 20:24	29° Ω 34'34	0°48'54
direct	16410 Nov 04 13:39	9°M23'16	0.00 4.000 5	desc. node	16411 Oct 07 11:13	26° £ 53'16	0.601.60 :=
morning max el	16410 Nov 18 19:45	17°M09'30	27°48'36	min. Earth dist.	16411 Oct 07 16:12	26° ≏ 40'56	0.62168 AU

morning rise	16411 Oct 11 07:10	23° ≏ 33'24		morning rise	16412 Sep 23 05:44	6° £ 23'39	
direct	16411 Oct 17 23:40	21° ♀ 10'56		desc. node	16412 Sep 23 08:32	6° ₽ 18'11	
morning max el	16411 Nov 01 02:09	29° ♀ 07'41	27°58'05	direct	16412 Sep 29 19:09	3° ≏ 49'28	
5 5	16411 Nov 01 22:51	0°M₊		morning max el	16412 Oct 13 12:30	11° ≏ 46'49	27°30'55
	16411 Nov 23 10:29	0° ∡ ¹		C	16412 Oct 28 01:28	0° M	
asc. node	16411 Dec 02 00:17	15° ∡ ¹46'07			16412 Nov 14 22:14	0° ∡ ¹	
morning set	16411 Dec 05 01:36	21° ₹ '54'42		morning set	16412 Nov 17 16:33	5° ∡ ¹22'04	
C	16411 Dec 08 21:50	8°0		asc. node	16412 Nov 17 21:15	5° ∡ ¹45'18	
max. Earth dist.	16411 Dec 10 10:23	3° ප 18'01	1.31552 AU	max. Earth dist.	16412 Nov 22 07:09	14° ∡ °45′16	1.32648 AU
	16411 Dec 12 12:14	70751120	1°23'22		16412 N 25 17-50	220.704142	1°06'46
superior conj minimum elong	16411 Dec 12 12:14 16411 Dec 12 10:13	7°る51'38 7°る40'33	1°23'48	superior conj minimum elong	16412 Nov 25 17:50 16412 Nov 25 15:27	22° х 04'43 21° х 51'56	1°07'02
evening rise	16411 Dec 12 10:13	7 3 40 33	1 23 46	minimum ciong	16412 Nov 29 09:24	21 メ ・31 30	1 0/02
evening rise	16411 Dec 19 05.44 16411 Dec 22 16:32	0°≈		evening rise	16412 Dec 02 16:28	7° る 08'13	
desc. node	16411 Dec 22 10.32 16412 Jan 03 09:54	0 ≈ 21°≈06'13		evening rise	16412 Dec 14 13:01	0°≈	
dese. Hode	16412 Jan 10 01:20	0° \		desc. node	16412 Dec 20 06:49	8°≈22'38	
evening max el	16412 Jan 13 15:30	3° ¥ 48'04	24°34'37	evening max el	16412 Dec 25 00:52	13°≈43'43	22°51'21
retrograde	16412 Jan 27 08:10	10° ¥ 37'55	213137	retrograde	16413 Jan 07 02:05	20°≈10'54	22 3121
evening set	16412 Feb 01 14:19	9° ₩ 37'03		evening set	16413 Jan 11 02:59	19°≈35'27	
min. Earth dist.	16412 Feb 07 03:25		0.55814 AU	min. Earth dist.	16413 Jan 18 10:22		0.54656 AU
inferior conj	16412 Feb 09 10:18	5° ¥ 21'51		inferior conj	16413 Jan 19 09:49	15° ≈ 40'27	
minimum elong	16412 Feb 09 19:19			minimum elong	16413 Jan 19 12:51	15° ≈ 36'07	
morning rise	16412 Feb 18 02:31	1° ¥ 19'42		morning rise	16413 Jan 27 23:56	11° ≈ 51'14	
direct	16412 Feb 20 07:54	1°) €06'26		direct	16413 Jan 30 22:42	11° ≈ 31'07	
asc. node	16412 Feb 27 22:28	3°) € 54'07		morning max el	16413 Feb 11 14:04	17° ≈ 08'46	21°03'21
morning max el	16412 Mar 01 08:35	5°) 58'51	19°40'42	asc. node	16413 Feb 13 19:47	19° ≈ 30'02	
C	16412 Mar 16 15:31	0° Υ			16413 Feb 21 06:03	0° ∀	
morning set	16412 Mar 18 17:50	4° Υ 11'40		morning set	16413 Mar 03 02:19	18° ¥ 51'45	
				•	16413 Mar 08 09:59	0° Y	
superior conj	16412 Mar 26 17:26	20° Y 14'18	0°39'35				
minimum elong	16412 Mar 26 19:33	20° Y ′24'41	0°39'03	superior conj	16413 Mar 10 11:04	4° Υ 14'30	1°03'35
desc. node	16412 Mar 31 10:53	29° Y 20'14		minimum elong	16413 Mar 10 13:36	4° Y 27'30	1°03'13
	16412 Mar 31 19:22	0° 8		max. Earth dist.	16413 Mar 15 09:28	14° Y 10'07	1.35420 AU
max. Earth dist.	16412 Apr 02 00:40	2° 8 16'12	1.37578 AU	desc. node	16413 Mar 18 07:36	19° Ƴ 47'37	
evening rise	16412 Apr 05 17:07	8° 8 56'05		evening rise	16413 Mar 19 08:50	21° Y 46'09	
	16412 Apr 18 11:43	Π °0			16413 Mar 23 21:54	0 \circ 8	
evening max el	16412 May 11 03:22		25°14'03		16413 Apr 12 07:16	Π °0	
	16412 May 11 13:55	0 \circ		evening max el	16413 Apr 23 16:58	13° Ⅱ 23'59	26°21'50
retrograde	16412 May 23 06:04	6° 5 36'31		retrograde	16413 May 06 15:42	20° Ⅱ 47'27	
asc. node	16412 May 25 20:13	6° ॐ 08'52		evening set	16413 May 12 22:29	18° Ⅱ 14'56	
evening set	16412 May 29 02:54	4° © 08'36		asc. node	16413 May 12 17:21	18° Ⅲ 25'18	
	16412 Jun 01 22:13	30°RⅡ		min. Earth dist.	16413 May 17 00:13	14° Ⅱ 01'09	0.66932 AU
min. Earth dist.	16412 Jun 02 10:56	29° Ⅱ 19'18	0.68152 AU	inferior conj	16413 May 18 20:24	11° Ⅱ 46'05	1°45'45
inferior conj	16412 Jun 03 18:01	27° I I37'53	2°23'01	minimum elong	16413 May 18 18:16	11° Ⅱ 52'37	1°44'30
minimum elong	16412 Jun 03 15:54	27° Ⅱ 44'47	2°21'52	morning rise	16413 May 24 15:00	6° Ⅱ 03'35	
morning rise	16412 Jun 09 05:18 16412 Jun 12 19:50	21° Ⅱ 44'11 20° Ⅱ 29'34		direct	16413 May 27 19:04	5°П06'59 8°П33'25	18°28'15
direct morning max el		20°Щ29'34 24°Щ19'15	1001447	morning max el desc. node	16413 Jun 03 06:48	8°Щ33°23 23°Щ14'32	18-28-15
morning max er	16412 Jun 19 20:06 16412 Jun 24 18:08	24 п 1913	19 1447	desc. node	16413 Jun 14 08:01 16413 Jun 18 16:43	23 ш 14 32 0° ©	
desc. node	16412 Jun 27 10:57	3°937'52		morning set	16413 Jun 24 00:36	8°922'50	
greatest brilliancy	16412 Jul 02 14:11	11° © 02'24	-0.7m	morning set	16413 Jul 07 19:42	0°Ω	
morning set	16412 Jul 14 03:25	28°935'22	-0.7111		10413 Jul 07 17.42	0 00	
morning set	16412 Jul 15 01:25	0°Ω		superior conj	16413 Jul 09 19:40	3° Ω 06'54	-2°13'00
max. Earth dist.	16412 Jul 27 03:26	18° Ω 45'24	1.45506 AU	minimum elong	16413 Jul 09 16:49	2° Ω 55'45	
max. Darm dist.	10112341 27 03.20	10 00 15 21	1.10000110	max. Earth dist.	16413 Jul 09 22:59	3°Ω19'49	1.46017 AU
superior conj	16412 Jul 30 09:30	23° Ω 52'31	-2°10'21	evening rise	16413 Jul 25 16:11	27° Ω 54'56	1.10017110
minimum elong	16412 Jul 30 14:15	24°Ω11'16		0.00000	16413 Jul 26 23:57	0° m)	
	16412 Aug 03 06:03	0° m)		greatest brilliancy	16413 Aug 03 06:48	11° m) 25'05	-0.8m
evening rise	16412 Aug 13 23:47	17° m) 24'49		asc. node	16413 Aug 08 17:08	19° m) 37'14	
asc. node	16412 Aug 21 20:23	0° Ω 15'19		evening max el	16413 Aug 16 09:43	29° m 21'48	18°45'38
	16412 Aug 21 16:34	0∘ ⊽		5	16413 Aug 17 01:47	0∘ ⊽	
evening max el	16412 Sep 01 21:18	15° ≏ 34'12	18°14'55	retrograde	16413 Aug 23 00:42	2° ≏ 57'28	
retrograde	16412 Sep 08 06:12	18° ≏ 56'49		evening set	16413 Aug 26 07:55	1° ≏ 55'04	
evening set	16412 Sep 11 03:59	18° ≏ 10'44			16413 Aug 28 15:56	30°R, Mp	
inferior conj	16412 Sep 17 03:28	12° ≏ 43'21	1°46'55	inferior conj	16413 Aug 31 22:22	26° Mp 13'27	2°27'22
minimum elong	16412 Sep 17 05:43	12° ≙ 36'51	1°46'18	minimum elong	16413 Sep 01 00:32	26° My $06'40$	2°26'46
min. Earth dist.	16412 Sep 19 12:42	9° ₽ 59'36	0.64318 AU	min. Earth dist.	16413 Sep 02 17:58	23° m 57'33	0.66170 AU

morning rise	16413 Sep 06 16:08	19° M 47'14		min. Earth dist.	16414 Aug 17 06:11	8° m 24'07	0.67618 AU
desc. node	16413 Sep 10 05:52	17° m 38'01		morning rise	16414 Aug 21 11:46	3°M/35'36	
direct	16413 Sep 12 22:27	17° m) 10'05		direct	16414 Aug 27 08:10	1° M 03'44	
morning max el	16413 Sep 25 23:58	24° m 53'56	26°34'27	desc. node	16414 Aug 28 03:12	1°Mp06'13	
	16413 Sep 30 15:20	0∘ ত		morning max el	16414 Sep 08 11:06	8° Mp 18'26	25°17'53
	16413 Oct 21 12:24	o° m ₊			16414 Sep 25 12:27	0∘ ऌ	
morning set	16413 Oct 31 19:53	18°M16'43		morning set	16414 Oct 14 07:52	0°M30'22	
asc. node	16413 Nov 04 18:09	25°M52'51			16414 Oct 14 01:05	0° M .	
max. Earth dist.	16413 Nov 04 18:10	25°M52'58	1.34297 AU	max. Earth dist.	16414 Oct 17 20:36	6°ML57'51	1.36414 AU
	16413 Nov 06 19:30	0° ∡ ¹		asc. node	16414 Oct 22 14:59	16°ML04'43	
superior conj	16413 Nov 09 17:13	5° ∡ ′58′01	0°43'57	superior conj	16414 Oct 24 07:29	19° M 24'33	0°15'10
minimum elong	16413 Nov 09 15:07	5° ∡ ¹47'06	0°44'08	minimum elong	16414 Oct 24 06:33	19° M .19'55	0°15'27
evening rise	16413 Nov 17 01:57	21° ∡ ′30′06		behind sun begin	16414 Oct 24 04:42	19° M .10'44	
Ü	16413 Nov 21 05:07	ರ°0		behind sun end	16414 Oct 24 08:24	19° M 29'06	
evening max el	16413 Dec 06 16:07	23° る 50'35	21°13'12		16414 Oct 29 13:06	0° ⊼	
desc. node	16413 Dec 07 03:48	24° る 18'49		evening rise	16414 Nov 01 08:05	5° ∡ 742'34	
retrograde	16413 Dec 18 11:50	29° පි 41'21		3	16414 Nov 14 22:18	0°ਰ	
evening set	16413 Dec 21 07:22	29° る 22'57		evening max el	16414 Nov 18 20:32	[°] ਰ38'11	19°52'37
inferior conj	16413 Dec 30 00:31	25° る 32'53	-5°48'33	desc. node	16414 Nov 24 00:51	8° る 30'34	17 32 37
minimum elong	16413 Dec 29 18:19	25° る 41'38		retrograde	16414 Nov 29 01:30	9°₹43'46	
min. Earth dist.	16413 Dec 30 15:41	25° る 11'28	0.54383 AU	evening set	16414 Dec 01 03:22	9° ප 32'06	
morning rise	16414 Jan 07 05:31	23 3 11 28 21° 3 42'06	0.54565 AU	inferior conj	16414 Dec 09 20:57	5° る 32'14	1010156
direct	16414 Jan 11 06:18	21° ろ 06'57		minimum elong	16414 Dec 09 10:57	5°る3214 5°る47'36	
	16414 Jan 24 05:25	21 80037 27° 8 26'11	22045146	min. Earth dist.		3 34/36 4° る 16'36	0.55062 AU
morning max el			22 43 40		16414 Dec 11 22:17		0.33002 AU
1	16414 Jan 26 16:47	0° ≈		morning rise	16414 Dec 17 17:17	1°る21'18	
asc. node	16414 Jan 31 17:04	6°≈24'08		direct	16414 Dec 22 19:17	0°る24'36	24026104
	16414 Feb 13 20:37	0°) {		morning max el	16415 Jan 05 13:39	7°る15'55	24°36'04
morning set	16414 Feb 15 13:36	3°) ₹35'58		asc. node	16415 Jan 18 14:19	24° る 17'41	
					16415 Jan 21 21:44	0° ≈	
superior conj	16414 Feb 22 12:49	18° ¥ 35′01		morning set	16415 Jan 31 01:36	18° ≈ 17'26	
minimum elong	16414 Feb 22 15:00	18°) 46′42			16415 Feb 05 09:54	0° ∀	
max. Earth dist.	16414 Feb 26 01:14		1.33593 AU				
	16414 Feb 28 00:11	0° Y		superior conj	16415 Feb 06 19:54	3° ₩ 06'59	
evening rise	16414 Mar 02 14:26	5° Y ′09'49		minimum elong	16415 Feb 06 21:17	3° 升 14'38	1°32'51
desc. node	16414 Mar 05 04:18	10° Y ′07′05		max. Earth dist.	16415 Feb 09 00:37	7° ¥ 54'32	1.32206 AU
	16414 Mar 16 15:25	$0^{\circ}S$		evening rise	16415 Feb 14 06:31	18° ¥ 57'13	
evening max el	16414 Apr 06 06:45	27° 8 00'57	27°11'23		16415 Feb 19 22:14	0 ° Υ	
	16414 Apr 09 15:14	Π $^{\circ}0$		desc. node	16415 Feb 20 01:00	0° Y 12'54	
retrograde	16414 Apr 19 19:17	4° Ⅲ 33'05			16415 Mar 10 20:34	8° 0	
evening set	16414 Apr 26 09:52	2° Ⅲ 02′18		evening max el	16415 Mar 19 19:03	10° 8 11'53	27°35'28
	16414 Apr 28 17:12	30°₽ ႘		retrograde	16415 Apr 02 15:37	17° 8 43'04	
asc. node	16414 Apr 29 14:32	29° 8 05'27		evening set	16415 Apr 09 10:38	15° 8 20'56	
min. Earth dist.	16414 Apr 30 06:58	28° 8 21'21	0.65301 AU	min. Earth dist.	16415 Apr 13 05:06	12° 8 08'46	0.63320 AU
inferior conj	16414 May 02 15:47	25° 8 41'58	0°55'42	inferior conj	16415 Apr 16 01:14	9° 8 17'10	-0°08'19
minimum elong	16414 May 02 14:22	25° 8 45'59	0°54'41	minimum elong	16415 Apr 16 01:30	9° 8 16'29	0°08'35
morning rise	16414 May 08 20:35	20° 8 12'23		transit middle	16415 Apr 16 01:30	9° 8 16'29	0°08'35
direct	16414 May 11 15:09	19° 8 31'19		transit begin	16415 Apr 15 22:49	9° 8 23'17	
morning max el	16414 May 17 22:16	22° 8 46'54	17°58'38	transit end	16415 Apr 16 04:11	9° 8 09'42	
Č	16414 May 23 18:23	$\Pi^{\circ}0$		asc. node	16415 Apr 16 11:46	8° 8 50'36	
desc. node	16414 Jun 01 05:02	13° Ⅱ 13'14		morning rise	16415 Apr 22 18:57	4° 8 03'03	
morning set	16414 Jun 05 00:20	19° Ⅱ 26'56		direct	16415 Apr 25 05:11	3° 8 34'29	
8 - 11	16414 Jun 11 11:47	0ಂತಾ		morning max el	16415 May 01 15:50	6° 8 51'04	17°46'28
					16415 May 17 01:41	0°II	
superior conj	16414 Jun 19 08:48	12° © 34'51	-1°55'58	morning set	16415 May 18 01:58	1° ∏ 44'12	
minimum elong	16414 Jun 19 00:39	12°502'38		desc. node	16415 May 19 01:57	3° Ⅱ 27'09	
max. Earth dist.	16414 Jun 22 19:23	17°959'24	1.45778 AU	desc. node	10 115 May 15 01.57	3 127 07	
	16414 Jun 30 12:55	0°Ω		superior conj	16415 May 30 15:22	22° ∏ 52'48	-1°24'47
evening rise	16414 Jul 05 10:54	7° Ω 33'48		minimum elong	16415 May 30 07:43	22° I [21'27	
greatest brilliancy	16414 Jul 18 22:44	27°Ω57'30	-0.7m	mmmum ciong	16415 Jun 04 00:59	22 H 2127	1 272)
51 carest brilliancy	16414 Jul 20 08:23	0°m)	0.7111	max. Earth dist.	16415 Jun 05 14:16	0 3 2° 9 28'46	1.44811 AU
asc. node	16414 Jul 26 13:55	8°Mp31'48		evening rise	16415 Jun 14 21:16	2 928 40 16°958'19	1.77011 AU
	16414 Jul 30 17:29	13° M) 15'37	10022140	evening rise		0°Ω	
evening max el			19°32'49	asa nodo	16415 Jun 23 12:22		
retrograde	16414 Aug 06 22:36	17° To 16'48		asc. node	16415 Jul 13 10:43	26° Ω 49'25	20024142
evening set	16414 Aug 10 15:54	15° T 56'40	2052100	evening max el	16415 Jul 13 19:12	27° Ω 10'47	20°34'43
inferior conj	16414 Aug 16 00:35	10° Mp 02'13		matera a J -	16415 Jul 17 02:09	0° m)	
minimum elong	16414 Aug 16 02:07	9° ™ 57'08	2 32 29	retrograde	16415 Jul 21 21:39	1° Mp 48'44	

. ,	16415 1 1 26 01 41	00 m. 10120		. 1	16416 1 1 04 20 06	160 007111	
evening set	16415 Jul 26 01:41	0° m 10'30		retrograde	16416 Jul 04 20:06	16° Ω 27'11	
	16415 Jul 26 06:51	30°RΩ	2005154	evening set	16416 Jul 09 11:19	14° Ω 31'47	2007/22
inferior conj	16415 Jul 31 07:31	24° Ω 04'25	3°05'54	inferior conj	16416 Jul 14 16:56	8°Ω15'28	3°07'32
minimum elong	16415 Jul 31 08:09	24° Ω 02'13	3°05'26	minimum elong	16416 Jul 14 16:37	8° Ω 16'34	3°06'58
min. Earth dist.	16415 Jul 31 23:23	23° Ω 09'47	0.68604 AU	min. Earth dist.	16416 Jul 14 19:30	8° Ω 06'31	0.69107 AU
morning rise	16415 Aug 05 14:19	17° Ω 41'25		morning rise	16416 Jul 19 21:44	1° Ω 58'35	
direct	16415 Aug 10 23:08	15° Ω 21'17			16416 Jul 23 17:22	30°ષ્દ્	
desc. node	16415 Aug 15 00:30	16° Ω 26'51		direct	16416 Jul 24 18:22	29° © 54'37	
morning max el	16415 Aug 21 22:09	21° Ω 53'38	23°50'49		16416 Jul 25 20:00	0 \circ Ω	
	16415 Aug 28 23:35	0° m)		desc. node	16416 Jul 31 21:46	3° Ω 15'42	
	16415 Sep 18 18:42	0∘ ⊽		morning max el	16416 Aug 03 10:55	5° Ω 36'54	22°22'07
morning set	16415 Sep 26 00:24	11° ≏ 54'03			16416 Aug 22 05:47	0° ™	
max. Earth dist.	16415 Sep 29 19:40	18° ≏ 28'38	1.38797 AU	morning set	16416 Sep 05 17:54	22° m 19'07	
	16415 Oct 06 04:05	0° M			16416 Sep 10 10:04	0∘ ⊽	
				max. Earth dist.	16416 Sep 10 20:57	0° ≏ 45'35	1.41179 AU
superior conj	16415 Oct 07 09:00	2°M15'46	-0°18'42				
minimum elong	16415 Oct 07 10:20	2° ML22'00	0°18'09	superior conj	16416 Sep 18 17:29	14° ≙ 20'58	-0°55'33
asc. node	16415 Oct 09 11:45	6° ጤ 17'13		minimum elong	16416 Sep 18 21:58	14° ≏ 40'58	0°54'45
evening rise	16415 Oct 16 08:15	19°M39'21		asc. node	16416 Sep 25 08:27	26° ≏ 26'06	
	16415 Oct 21 17:32	0° ∡ ¹			16416 Sep 27 06:18	0°M	
evening max el	16415 Nov 01 15:09	16° ∡ 16'37	18°54'19	evening rise	16416 Sep 28 23:08	3°M11'05	
retrograde	16415 Nov 10 07:12	20° ∡ ³39′10		evening max el	16416 Oct 14 20:42	28°M40'21	18°18'05
desc. node	16415 Nov 10 21:57	20° ∡ ³37'54		-	16416 Oct 16 07:40	0° ∡ ¹	
evening set	16415 Nov 12 04:42	20° ∡ "27′25		retrograde	16416 Oct 22 08:16	2° ∡ ¹29'17	
inferior conj	16415 Nov 20 11:05	16° х 08'40	-3°02'02	evening set	16416 Oct 24 09:24	2° ҂ 12'48	
minimum elong	16415 Nov 20 03:41	16° ∡ ′21'48	2°58'38	desc. node	16416 Oct 27 19:09	0° ∡ ¹40'03	
min. Earth dist.	16415 Nov 23 09:43	14° ∡ ¹03'56	0.56549 AU		16416 Oct 28 19:23	30°RM	
morning rise	16415 Nov 27 23:49	11° ×7 23'13		inferior conj	16416 Oct 31 23:02	27°M32'50	-1°20'31
direct	16415 Dec 03 21:01	10° ∡ '01'02		minimum elong	16416 Oct 31 19:59	27° M 39'09	1°18'46
morning max el	16415 Dec 18 00:48	17° ∡ 17'56	26°15'05	min. Earth dist.	16416 Nov 04 05:01	24°M52'08	0.58582 AU
morning man vi	16415 Dec 28 11:53	0°ਰ	20 10 00	morning rise	16416 Nov 08 03:05	22°M10'43	0.00002110
asc. node	16416 Jan 05 11:30	12° る 56'09		direct	16416 Nov 14 13:01	20°M21'40	
use. Houe	16416 Jan 14 04:23	0° ≈		morning max el	16416 Nov 28 19:51	27°M59'41	27°25'16
morning set	16416 Jan 15 12:32	2° ≈ 51'42		morning max cr	16416 Nov 30 19:04	0° √	27 23 10
morning set	10410 Jan 13 12.32	2 ~31 42			16416 Dec 21 05:14	%ਰ	
superior conj	16416 Jan 22 06:06	17° ≈ 44'35	1°37'49	asc. node	16416 Dec 22 08:36	2°る07'33	
minimum elong	16416 Jan 22 06:29	17°≈46'43	1°38'18	morning set	16416 Dec 29 20:36	2 3 07 33	
max. Earth dist.	16416 Jan 23 05:43	17 ≈ +0+3	1.31323 AU	morning set	16417 Jan 04 16:05	0°≈	
max. Earm dist.	16416 Jan 27 20:04	0° X	1.31323 AU		1041/Jan 04 10.03	0 ~	
evening rise	16416 Jan 29 06:25	3° ∺ 02'09		superior conj	16417 Jan 05 17:30	2° ≈ 22'26	1°36'59
desc. node	16416 Feb 06 21:44	19° H 59'28		minimum elong	16417 Jan 05 16:50	2°≈18'40	1°37'33
desc. Hode	16416 Feb 12 17:42	19 γ (3928		max. Earth dist.	16417 Jan 05 13:14	2 ≈1840 1°≈58'29	1.30970 AU
avanina may al		22° Υ 43'32	27927146		16417 Jan 03 13.14 16417 Jan 12 11:50	1 ≈38 29 17°≈19'15	1.30970 AU
evening max el	16416 Mar 01 03:26		2/2/40	evening rise			
	16416 Mar 13 10:36	0° と 0° と 07'47		4 4-	16417 Jan 18 16:37	0° ∺ 9° ∺ 19'26	
retrograde	16416 Mar 15 03:41	_		desc. node	16417 Jan 23 18:30	9° π 19′26 0° Υ	
. ,	16416 Mar 16 20:09	30° ₹ Υ			16417 Feb 07 00:28		26045102
evening set	16416 Mar 21 22:03	28° Y 01′28	0.61105.411	evening max el	16417 Feb 11 05:22	4° Υ 25'50	26°45'02
min. Earth dist.	16416 Mar 25 17:14	25° Y 11'19	0.61105 AU	retrograde	16417 Feb 25 06:10	11° Y 39'30	
inferior conj	16416 Mar 28 21:15	22°Υ'22'34		evening set	16417 Mar 03 16:57	9° Υ 55'51	0.50020.441
minimum elong	16416 Mar 29 00:23	22°\bar{\gamma}15'35	1°25′25	min. Earth dist.	16417 Mar 07 19:13	7° Υ 17'09	0.58838 AU
asc. node	16416 Apr 02 09:02	18° Y 48'42		inferior conj	16417 Mar 11 00:09	4° Υ 48'39	
morning rise	16416 Apr 05 06:06	17° Y 26′56		minimum elong	16417 Mar 11 06:56	4°Υ35'32	2°53'11
direct	16416 Apr 07 09:26	17° Y ′07'32		morning rise	16417 Mar 19 00:30	0° Υ 13'52	
morning max el	16416 Apr 14 08:23	20° Y 36'48	17°52'21	asc. node	16417 Mar 20 06:19	0° Υ 01'58	
	16416 Apr 21 09:48	0° 8		direct	16417 Mar 20 23:34	0° Y ′00′05	
morning set	16416 Apr 30 00:03	14° 8 57'55		morning max el	16417 Mar 28 20:19	3° Y ′53'47	18°17'30
desc. node	16416 May 04 22:47	23° 8 51'16		morning set	16417 Apr 13 13:01	28° Y ′51'37	
	16416 May 08 10:24	Π °0			16417 Apr 14 03:29	0°8	
_				desc. node	16417 Apr 21 19:36	14° 8 21'32	
superior conj	16416 May 10 21:16	4° Ⅱ 14'54					
minimum elong	16416 May 10 17:03	3° Ⅱ 56'46		superior conj	16417 Apr 23 01:15	16° 8 36'37	
max. Earth dist.	16416 May 18 05:16	16° Ⅱ 31'39	1.43216 AU	minimum elong	16417 Apr 23 00:26	16° 8 32'53	0°10'37
evening rise	16416 May 24 15:55	26° Ⅱ 50′12		behind sun begin	16417 Apr 22 18:51	16° 8 07'32	
	16416 May 26 16:37	0ಂತಿ		behind sun end	16417 Apr 23 06:01	16° 8 58'11	
	16416 Jun 16 07:52	$0^{\circ}\Omega$		max. Earth dist.	16417 Apr 30 15:07	29° 8 54'52	1.41168 AU
evening max el	16416 Jun 25 14:59	11° Ω 05′12	21°48'13		16417 Apr 30 16:20	$\Pi^{\circ}0$	
asc. node	16416 Jun 29 07:34	14° Ω 17'21		evening rise	16417 May 05 05:30	7° Ⅱ 34'25	

	1641734 10 10 21	000		E d Ed	16410 4 12 21 27	120 425102	1 20002 ATT
	16417 May 19 18:31	0.ee	22000120	max. Earth dist.	16418 Apr 12 21:27	_	1.38893 AU
evening max el	16417 Jun 08 06:36	25°9500'12	23°08'39	evening rise	16418 Apr 16 16:25	19° 8 13'24	
_	16417 Jun 14 15:23	0 ° Ω			16418 Apr 23 04:05	0°П	
asc. node	16417 Jun 16 04:30	0° Ω 40'11			16418 May 13 23:30	0 \circ	
retrograde	16417 Jun 18 16:26	1° Ω 06'49		evening max el	16418 May 21 20:22	8° © 55'54	24°29'53
	16417 Jun 22 08:57	30° ₹ 5		retrograde	16418 Jun 02 09:22	15° © 40'32	
evening set	16417 Jun 23 19:13	28° © 56'18		asc. node	16418 Jun 03 01:31	15° © 38'37	
min. Earth dist.	16417 Jun 28 16:29	23°508'06	0.69119 AU	evening set	16418 Jun 07 23:40	13° © 18'02	
inferior conj	16417 Jun 29 02:56	22° © 31'54	2°58'35	min. Earth dist.	16418 Jun 12 12:07	8° © 07'15	0.68642 AU
minimum elong	16417 Jun 29 01:44	22° © 36'02	2°57'50	inferior conj	16418 Jun 13 11:34	6° 5 548'34	2°39'10
morning rise	16417 Jul 04 08:11	16° © 22'49		minimum elong	16418 Jun 13 09:42	6° ॐ 54'50	2°38'09
direct	16417 Jul 08 16:43	14° © 37'28		morning rise	16418 Jun 18 19:52	0°9548'43	
morning max el	16417 Jul 17 04:04	19° 5 29'31	20°59'34		16418 Jun 20 03:28	30°RⅡ	
desc. node	16417 Jul 18 18:59	21°©11'16		direct	16418 Jun 22 16:50	29° Ⅲ 22'50	
	16417 Jul 25 21:56	$0^{\circ}\Omega$			16418 Jun 25 09:17	0 \circ \odot	
	16417 Aug 15 08:55	0° m)		morning max el	16418 Jun 30 03:47	3° © 31'54	19°48'46
morning set	16417 Aug 16 12:36	1° m 47'28		desc. node	16418 Jul 05 16:11	9° © 55'36	
max. Earth dist.	16417 Aug 24 03:57	13° m 54'48	1.43288 AU		16418 Jul 19 16:19	$0^{\circ}\Omega$	
				morning set	16418 Jul 26 17:37	10° Ω 43'23	
superior conj	16417 Aug 31 04:44	25° m 31'49	-1°31'27	max. Earth dist.	16418 Aug 06 17:35	27° Ω 50′08	1.44888 AU
minimum elong	16417 Aug 31 12:08	26° m 03'02	1°30'42		16418 Aug 08 02:22	o∘ mp	
Č	16417 Sep 02 19:50	0∘ ⊽			Č	•	
evening rise	16417 Sep 12 00:29	16° ♀ 07'15		superior conj	16418 Aug 11 16:35	5° m) 44'41	-2°00'08
asc. node	16417 Sep 12 05:09	16° ≏ 28'03		minimum elong	16418 Aug 11 23:53	6° Mp 14'07	
	16417 Sep 19 23:15	0°M		evening rise	16418 Aug 25 07:07	28° m) 14'37	
evening max el	16417 Sep 28 08:55		18°02'10	evening rise	16418 Aug 26 08:04	0° ⊽	
retrograde	16417 Oct 05 02:15	15°ML07'47	10 02 10	asc. node	16418 Aug 30 01:53	∘ – 6° ≏ 18'44	
evening set	16417 Oct 07 10:34	14°M42'25		evening max el	16418 Sep 11 23:51	25° £ 05'00	18°05'07
inferior conj	16417 Oct 14 07:14	9°M42'15	0°07'11	retrograde	16418 Sep 18 08:59	28° ⊆ 25'27	10 03 07
minimum elong	16417 Oct 14 07:14 16417 Oct 14 07:29	9°M41'41	0°07'18	•	*	28 = 23 27 27° £ 47'39	
transit middle	16417 Oct 14 07:29	9 1164141 9°M41'41	0°07'28	evening set	16418 Sep 21 01:45 16418 Sep 27 08:00		1°15'53
			0 07 28	inferior conj	•	22° £ 2930	
transit begin	16417 Oct 14 04:35	9°M48'37		minimum elong	16418 Sep 27 09:54		1°15'25 0.63119 AU
transit end	16417 Oct 14 10:23	9°M34'44		min. Earth dist.	16418 Sep 30 00:31	19° Ω 36'00 18° Ω 03'50	0.63119 AU
desc. node	16417 Oct 14 16:23	9°M20'20	0.60062.444	desc. node	16418 Oct 01 13:39		
min. Earth dist.	16417 Oct 17 09:48	6°M45'03	0.60863 AU	morning rise	16418 Oct 03 15:52	16° £ 17'34	
morning rise	16417 Oct 21 01:20	3°M50'25		direct	16418 Oct 10 07:51	13° 2 48'54	25050121
direct	16417 Oct 27 17:25	1°M37'53		morning max el	16418 Oct 24 06:49	21° ≏ 46'52	2/°50'31
morning max el	16417 Nov 10 22:36	9° M ₃30'18	27°57'16		16418 Oct 31 11:56	0° M ₊	
_	16417 Nov 26 19:40	0° ∡			16418 Nov 19 23:29	0° ∡	
asc. node	16417 Dec 09 05:39	21° ∡ ′42'53		asc. node	16418 Nov 26 02:39	11° ∡ ′35′16	
	16417 Dec 13 08:37	0°ಕ		morning set	16418 Nov 27 20:05	15° ∡ °02'31	
morning set	16417 Dec 13 23:51	1° る 19'14		max. Earth dist.	16418 Dec 02 20:45	25° ∡ ³32'44	1.31950 AU
max. Earth dist.	16417 Dec 19 19:27	13° る 53'06	1.31175 AU		16418 Dec 04 22:08	0°ප	
superior conj	16417 Dec 21 04:13	16° る 55'09	1°30'07	superior conj	16418 Dec 05 12:21	1° る 17'37	1°17'06
minimum elong	16417 Dec 21 02:38	16° る 46'15	1°30'37	minimum elong	16418 Dec 05 10:07	1° る 05'27	1°17'27
	16417 Dec 27 01:41	0° ≈		evening rise	16418 Dec 12 07:26	16° る 11'25	
evening rise	16417 Dec 27 20:47	1° ≈ 43'44			16418 Dec 19 00:46	0° ≈	
desc. node	16418 Jan 10 15:19	28° ≈ 02'35		desc. node	16418 Dec 28 12:11	15° ≈ 55'54	
	16418 Jan 11 20:58	0° ∀		evening max el	16419 Jan 05 10:04	25° ≈ 24′05	23°51'15
evening max el	16418 Jan 23 23:09	15° ∺ 15'37	25°29'24		16419 Jan 11 11:07	0° ∀	
retrograde	16418 Feb 06 20:47	22° ₩ 15'07		retrograde	16419 Jan 18 21:33	2° ₩ 04'51	
evening set	16418 Feb 12 15:43	20°) 58′43		evening set	16419 Jan 23 15:59	1° ∺ 15'38	
min. Earth dist.	16418 Feb 17 11:58	18° ¥ 17′24	0.56780 AU		16419 Jan 26 16:22	30° ₹ ≈	
inferior conj	16418 Feb 20 06:40	16° ¥ 25'49	-4°26'07	min. Earth dist.	16419 Jan 29 21:32	28° ≈ 14'31	0.55225 AU
minimum elong	16418 Feb 20 16:03	16°) 10′05	4°23'09	inferior conj	16419 Jan 31 16:17	27° ≈ 11'13	-5°37'11
morning rise	16418 Feb 28 19:15	12° 升 12′12		minimum elong	16419 Jan 31 23:36	27° ≈ 00'22	5°35'39
direct	16418 Mar 02 19:36	12° ₩ 00'05		morning rise	16419 Feb 09 08:51	23° ≈ 15'33	
asc. node	16418 Mar 07 03:38	12° ¥ 59'42		direct	16419 Feb 11 20:22	23° ≈ 00'07	
morning max el	16418 Mar 11 23:25	16° ¥ 29'11	19°03'46	asc. node	16419 Feb 22 00:58	27° ≈ 42'14	
- C	16418 Mar 21 13:17	0° Υ		morning max el	16419 Feb 22 13:29	28°≈11'55	20°13'01
morning set	16418 Mar 28 12:11	13° Y °10'57		Ç	16419 Feb 24 06:49	0° \	
<i>5 ,</i>	•			morning set	16419 Mar 12 18:06	27° ¥ 46′07	
superior conj	16418 Apr 05 23:07	29° Ƴ 45'12	0°22'56		16419 Mar 13 20:14	0° Υ	
minimum elong	16418 Apr 06 00:32	29° Y '51'55	0°22'25				
	16418 Apr 06 02:13	0°8		superior conj	16419 Mar 20 10:39	13° Y ′29'34	0°50'31
desc. node	16418 Apr 08 16:22	4° 8 53'26		minimum elong	16419 Mar 20 13:03	13° Υ 41'37	0°50'02
3000. 11040	-0.1071pr 00 10.22	. 000 20		ciong	20.12 11101 20 13.03	10 1 11 37	5 5 5 5 5 5

max. Earth dist.	16419 Mar 26 04:26	24° Y ′42'32	1.36633 AU	superior conj	16420 Mar 03 08:05	27°) € 39'03	1°11'50
desc. node	16419 Mar 26 13:07	25° Y ′23'35		minimum elong	16420 Mar 03 10:32	27° ¥ 51'53	1°11'36
	16419 Mar 29 00:36	0°8			16420 Mar 04 11:08	0° Υ	
avanina riaa	16419 Mar 29 22:37	1° 8 40'18		max. Earth dist.	16420 Mar 07 16:07	6° Υ 33'15	1.34596 AU
evening rise							1.34390 AU
	16419 Apr 16 06:52	Π °0		evening rise	16420 Mar 11 20:37	14° Y 45′06	
evening max el	16419 May 04 09:58	22° Ⅱ 49'50	25°44'41	desc. node	16420 Mar 12 09:50	15° Ƴ 47'47	
	16419 May 16 04:48	0 \circ \odot			16420 Mar 20 08:00	0° 8	
retrograde	16419 May 16 21:43	0°901'50			16420 Apr 09 22:53	Π° 0	
J	16419 May 17 14:22	30°R Ⅱ		evening max el	16420 Apr 15 23:42	6° Ⅱ 34'57	26°45'35
asc. node	•	28° II 56'15		Č	16420 Apr 29 04:43	14°∏03'03	20 13 33
	16419 May 20 22:36			retrograde			
evening set	16419 May 22 23:00	27° Ⅲ 31′28		evening set	16420 May 05 15:21	11° Ⅲ 30′16	
min. Earth dist.	16419 May 27 04:16	22° Ⅱ 57'27	0.67691 AU	asc. node	16420 May 06 19:46	10° Ⅱ 28'36	
inferior conj	16419 May 28 16:51	21° Ⅱ 01′06	2°08'42	min. Earth dist.	16420 May 09 14:52	7° Ⅱ 31′09	0.66287 AU
minimum elong	16419 May 28 14:40	21° Ⅱ 08′05	2°07'29	inferior conj	16420 May 11 16:34	5° Ⅱ 04'25	1°26'11
morning rise	16419 Jun 03 06:53	15° Ⅱ 11'51		minimum elong	16420 May 11 14:38	5° Ⅱ 10′09	1°24'58
direct	16419 Jun 06 16:57	14° Ⅱ 04'56			16420 May 16 18:11	30°R ႘	
			10050157		•		
morning max el	16419 Jun 13 10:45	17° Ⅱ 42'52	18°52'57	morning rise	16420 May 17 15:10	29° 8 27'24	
desc. node	16419 Jun 22 13:19	29° Ⅱ 15'52		direct	16420 May 20 15:09	28° 8 37'40	
	16419 Jun 23 01:26	0 \circ 60			16420 May 24 14:33	Π \circ 0	
greatest brilliancy	16419 Jun 26 21:34	5° © 43'37	-0.8m	morning max el	16420 May 26 23:48	1° Ⅱ 57'38	18°13'38
morning set	16419 Jul 06 03:40	19° 9 58'01		desc. node	16420 Jun 08 10:22	19° Ⅱ 02'36	
Z .	16419 Jul 12 14:52	$0^{\circ}\Omega$		morning set	16420 Jun 15 11:37	0°916'52	
max. Earth dist.	16419 Jul 20 12:15	12° Ω 16'59	1.45820 AU	morning set	16420 Jun 15 07:24	0°95	
max. Earth dist.	10419 Jul 20 12.13	12 661039	1.43620 AU		10420 Juli 13 07.24	0 3	
	16410 1 1 22 00 41	150 0 10142	2012150		16420 1 20 17 56	240625105	2007150
superior conj	16419 Jul 22 08:41	15° Ω 10'43		superior conj	16420 Jun 30 17:56	24° © 25'05	
minimum elong	16419 Jul 22 10:26	15° Ω 17'35	2°14'26	minimum elong	16420 Jun 30 12:08	24° © 02'28	2°08'21
	16419 Jul 31 17:58	0° m y		max. Earth dist.	16420 Jul 02 08:53	26° 9 57'03	1.46003 AU
evening rise	16419 Aug 06 14:07	9° ™ 21'27			16420 Jul 04 07:51	$0^{\circ}\Omega$	
asc. node	16419 Aug 16 22:36	25° m 52'49		evening rise	16420 Jul 16 20:21	19° Ω 27'15	
	16419 Aug 19 16:05	0∘ ত			16420 Jul 23 15:46	0° m	
evening max el	16419 Aug 26 14:01	ა <u>—</u> 8° ჲ 46'35	18°25'53	greatest brilliancy	16420 Jul 27 16:49	6° Mp 10'39	-0.7m
•	•	12° £ 12'55	10 23 33	asc. node			-0.7111
retrograde	16419 Sep 02 00:17				16420 Aug 02 19:22	15° Mp 04'17	10002144
evening set	16419 Sep 05 02:07	11° ≏ 19'57		evening max el	16420 Aug 09 00:38	22° m 37'27	19°03'44
inferior conj	16419 Sep 10 21:19	5° ≏ 46'07	2°06'03	retrograde	16420 Aug 15 20:42	26° Mp 22'44	
minimum elong	16419 Sep 10 23:37	5° ≏ 39'13	2°05'24	evening set	16420 Aug 19 08:07	25° m 12'49	
min. Earth dist.	16419 Sep 13 00:45	3° ₽ 13'06	0.65152 AU	inferior conj	16420 Aug 24 19:42	19° m 25'18	2°39'55
	16419 Sep 16 02:33	30°₽,₩		minimum elong	16420 Aug 24 21:39	19° m 19'03	2°39'21
morning rise	16419 Sep 16 19:47	29° m 23'00		min. Earth dist.	16420 Aug 26 09:15	17° m) 24'45	0.66833 AU
desc. node	16419 Sep 18 10:59	28° m 13'02		morning rise	16420 Aug 30 10:24	12° m 58'12	
direct	16419 Sep 23 06:36	26° m) 46'47		desc. node	16420 Sep 04 08:18	10° Mp 28'08	
direct	-				•		
	16419 Oct 01 09:47	0∘ ⊽		direct	16420 Sep 05 12:36	10° m 22'41	
morning max el	16419 Oct 06 17:52	4° ≏ 39'18	27°10'01	morning max el	16420 Sep 18 05:32	17° m 56'06	26°03'54
	16419 Oct 26 01:24	0° M .			16420 Sep 28 09:32	0∘ 亚	
morning set	16419 Nov 11 06:29	28° ™ 16'48			16420 Oct 18 00:45	0° M ₊	
	16419 Nov 12 03:37	0° ∡ ¹		morning set	16420 Oct 24 03:48	10°M55'28	
asc. node	16419 Nov 12 23:34	1° ∡ ³38'31		max. Earth dist.	16420 Oct 27 21:08	17° M 57'38	1.35154 AU
max. Earth dist.	16419 Nov 15 13:46	6° ∡ 752'09	1.33293 AU	asc. node	16420 Oct 29 20:26	21°M48'28	
man. Bartin and.	10.119.1107.12 13.110	0 % 02 0	1.552,5110		10.20 000 29 20.20	21 110 10 20	
superior conj	16419 Nov 19 15:37	15° ∡ ¹23'11	0°57'51	superior conj	16420 Nov 02 11:30	29°M05'58	0°32'26
minimum elong	16419 Nov 19 13:16	15° ∡ 10'41	0°58'05	minimum elong	16420 Nov 02 09:46	28°M57'08	0°32'39
	16419 Nov 26 10:59	0°ಕ			16420 Nov 02 22:04	0° ∡	
evening rise	16419 Nov 26 17:54	0° る 36'49		evening rise	16420 Nov 10 02:15	14° ∡ ¹55'38	
	16419 Dec 13 04:46	0° ≈			16420 Nov 17 17:32	0° ප	
desc. node	16419 Dec 15 09:08	2° ≈ 40'56		evening max el	16420 Nov 28 16:45	15° る 40'21	20°36'11
evening max el	16419 Dec 17 20:38	5°≈19'25	22°07'56	desc. node	16420 Dec 01 06:07	17° る 55'36	
retrograde	16419 Dec 30 10:34	11° ≈ 32'33	22 07 50	retrograde	16420 Dec 09 20:42	21°る13'00	
•				•			
evening set	16420 Jan 02 22:32	11°≈05'25	6000100	evening set	16420 Dec 12 06:47	20°る58'34	5005110
inferior conj	16420 Jan 11 10:21	7°≈14'28		inferior conj	16420 Dec 21 01:40	17° る 05'25	
minimum elong	16420 Jan 11 09:20			minimum elong	16420 Dec 20 16:53	17° る 18'09	
min. Earth dist.	16420 Jan 11 02:59	7° ≈ 24'46	0.54431 AU	min. Earth dist.	16420 Dec 22 08:23	16° る 20'52	0.54564 AU
morning rise	16420 Jan 19 21:02	3° ≈ 27'08		morning rise	16420 Dec 29 02:44	13° る 08'13	
direct	16420 Jan 23 06:31	3° ≈ 01'34		direct	16421 Jan 02 14:28	12° る 24'51	
morning max el	16420 Feb 04 12:25	8° ≈ 57'03	21°45'00	morning max el	16421 Jan 15 23:42	18° る 58'45	23°32'47
asc. node	16420 Feb 08 22:16	13° ≈ 53'19	5 00		16421 Jan 24 23:49	0° ≈	J - .,
usc. 11000		0° ∺		asc. node		0 ∞ 1°≈14'23	
	16420 Feb 18 23:25				16421 Jan 25 19:32		
morning set	16420 Feb 25 04:02	12°) €28'36		morning set	16421 Feb 08 15:49	27°≈12'02	
					16421 Feb 09 23:02	0° ∀	

superior conj	16421 Feb 15 12:23		1°26'48	asc. node	16422 Jan 12 16:44	19° る 28'49	
minimum elong	16421 Feb 15 14:17	12°) 15′22	1°26'53		16422 Jan 18 09:59	0° ≈	
max. Earth dist.	16421 Feb 18 11:03	18° ¥ 23'19	1.32941 AU	morning set	16422 Jan 24 03:35	11° ≈ 51′20	
evening rise	16421 Feb 23 06:59	28° ¥ 19′13					
	16421 Feb 24 03:20	0° Υ		superior conj	16422 Jan 30 21:05	26° ≈ 40'52	
desc. node	16421 Feb 27 06:31	6° Y 01'41		minimum elong	16422 Jan 30 22:04	26° ≈ 46′18	1°35'55
	16421 Mar 13 12:35	$0^{\circ}S$			16422 Feb 01 09:12	0° ∀	
evening max el	16421 Mar 29 12:49	20° 8 01'09	27°25'08	max. Earth dist.	16422 Feb 01 13:01	0° ∺ 20'58	1.31764 AU
retrograde	16421 Apr 12 05:27	27° 8 34'35		evening rise	16422 Feb 07 02:45	12° 米 15′25	
evening set	16421 Apr 18 22:31	25° 8 06'14		desc. node	16422 Feb 14 03:12	26° ∺ 00′17	
min. Earth dist.	16421 Apr 22 18:01	21° 8 38'28	0.64490 AU		16422 Feb 16 08:08	0° Y	
asc. node	16421 Apr 23 16:58	20° 8 37'40			16422 Mar 09 02:28	9° 8	
inferior conj	16421 Apr 25 08:04	18° 8 51'51	0°30'17	evening max el	16422 Mar 11 23:43	2° 8 57'08	27°36'22
minimum elong	16421 Apr 25 07:13	18° 8 54'08	0°29'31	retrograde	16422 Mar 25 22:45	10° 8 26'44	
morning rise	16421 May 01 18:04	13° 8 28'52		evening set	16422 Apr 01 18:01	8° 8 10'30	
direct	16421 May 04 08:53	12° 8 53'38		min. Earth dist.	16422 Apr 05 12:13	5° 8 08'31	
morning max el	16421 May 10 16:34	16° 8 08'15	17°51'22	inferior conj	16422 Apr 08 12:16	2° 8 15'56	
	16421 May 20 18:34	Π °0		minimum elong	16422 Apr 08 13:37	2° 8 12'42	0°39'35
desc. node	16421 May 26 07:20	9°Ⅱ08'04		asc. node	16422 Apr 10 14:12	0° 8 19'56	
morning set	16421 May 27 22:46	11° Ⅱ 52'51			16422 Apr 10 23:24	30° ₹Ƴ	
	16421 Jun 07 22:42	0 \circ		morning rise	16422 Apr 15 12:14	27° Y 09'20	
				direct	16422 Apr 17 19:10	26° Y 45′13	
superior conj	16421 Jun 10 13:09	4°910'57			16422 Apr 24 07:36	0°8	
minimum elong	16421 Jun 10 04:36		1°43'50	morning max el	16422 Apr 24 10:09	0° 8 06'09	17°46'40
max. Earth dist.	16421 Jun 15 04:36	11° © 32'45	1.45440 AU	morning set	16422 May 10 09:52	24° 8 36'21	
evening rise	16421 Jun 26 09:20	28° © 53'39		desc. node	16422 May 13 04:14	29° 8 26'53	
	16421 Jun 27 02:42	0 \circ Ω			16422 May 13 11:50	Π °0	
greatest brilliancy	16421 Jul 11 04:26	21° Ω 02'45	-0.6m			_	
	16421 Jul 17 15:43	0° m)		superior conj	16422 May 22 05:29	14° ∏ 55'52	
asc. node	16421 Jul 20 16:09	3° m/44'14	10057120	minimum elong	16422 May 21 23:09	14° Ⅱ 29'23	1°09'00
evening max el	16421 Jul 23 05:47	6° Mp 31'26	19°57'30	max. Earth dist.	16422 May 28 21:30	25° ∏ 50′25	1.44199 AU
retrograde	16421 Jul 30 19:24	10° Mp 47'35			16422 May 31 12:06	0.22 0.22	
evening set	16421 Aug 03 17:05	9° TD 19'52	2°59'55	evening rise	16422 Jun 05 21:22 16422 Jun 20 08:01	8° © 25'05 0° Ω	
inferior conj	16421 Aug 09 00:12 16421 Aug 09 01:22	3° Mp 20'14	2°59'55 2°59'26	avanina may al	16422 Jul 06 04:53	20°Ω26'03	21°04'51
minimum elong min. Earth dist.	16421 Aug 09 01.22 16421 Aug 09 23:56	3° Mp 16'16 1° Mp 59'59	0.68088 AU	evening max el asc. node	16422 Jul 06 04.53	20 δι 20 03 21° Ω 42'09	21 04 31
iiiii. Eartii tiist.	16421 Aug 11 12:44	1 11√3939 30°RΩ	0.08088 AU	retrograde	16422 Jul 14 18:20	$25^{\circ}\Omega 22'13$	
morning rise	16421 Aug 14 09:13	26°Ω54'27		evening set	16422 Jul 19 02:59	23°Ω36'45	
direct	16421 Aug 20 00:44	24°Ω26'50		inferior conj	16422 Jul 24 08:26	17° Ω 26'16	3°07'53
desc. node	16421 Aug 22 05:37	24° Ω 46'13		minimum elong	16422 Jul 24 08:40	17° Ω 25'28	3°07'24
dese. node	16421 Aug 30 05:26	0° m)		min. Earth dist.	16422 Jul 24 18:42	16° Ω 50'37	0.68878 AU
morning max el	16421 Aug 31 16:37	1° m 25'49	24°41'37	morning rise	16422 Jul 29 14:05	11°Ω05'28	
	16421 Sep 22 09:05	0∘ <u>⊽</u>		direct	16422 Aug 03 17:49	8° Ω 51′29	
morning set	16421 Oct 06 08:03	22° ≏ 49'07		desc. node	16422 Aug 09 02:56	10° Ω 46'36	
max. Earth dist.	16421 Oct 09 21:02	29° ჲ 08'20	1.37405 AU	morning max el	16422 Aug 14 03:53	15° Ω 03'15	23°12'42
	16421 Oct 10 08:22	0° M .		-	16422 Aug 26 09:07	o° m ⁄	
					16422 Sep 15 07:39	0∘ ⊽	
superior conj	16421 Oct 16 20:48	12°M18'15	0°01'21	morning set	16422 Sep 17 15:02	3° £ 47'51	
minimum elong	16421 Oct 16 20:41	12° ™ 17'42	0°01'44	max. Earth dist.	16422 Sep 21 19:50	10° ≙ 54'07	1.39825 AU
behind sun begin	16421 Oct 16 14:04	11°M45'29					
behind sun end	16421 Oct 17 03:19	12°M50'00		superior conj	16422 Sep 29 15:37	24° ≙ 50'49	
asc. node	16421 Oct 16 17:13	12° M 00'48		minimum elong	16422 Sep 29 18:12	25° ჲ 02'44	0°33'29
evening rise	16421 Oct 25 06:11	29°M01'56			16422 Oct 02 10:01	0°M₊	
	16421 Oct 25 17:45	0° ∡ 7		asc. node	16422 Oct 03 13:57	2°M11'52	
evening max el	16421 Nov 11 03:29	26° ∡ ¹49'54	19°25'05	evening rise	16422 Oct 09 02:48	12°M48'30	
	16421 Nov 15 03:02	0°る			16422 Oct 18 13:04	0° ₹	
desc. node	16421 Nov 18 03:10	1°る16'25		evening max el	16422 Oct 25 03:21	8° ₹ 48'51	18°36'23
retrograde	16421 Nov 20 16:13	1°る36'19		retrograde	16422 Nov 02 05:52	12° 🗷 55'11	
evening set	16421 Nov 22 14:41	1°る25'23		evening set	16422 Nov 04 04:23	12° x ⁷ 41'52	
inforior con:	16421 Nov 26 15:53	30°Ŗ ⋌ ¹ 27° ⋌ ³18'32	1000156	desc. node inferior conj	16422 Nov 05 00:19	12° х 28′24 8° х 14′21	2010/01
inferior conj minimum elong	16421 Dec 01 04:42 16421 Nov 30 19:16	27°×18'32 27°×7'33'52		minimum elong	16422 Nov 12 03:58 16422 Nov 11 22:26	8°×'14'21 8°× ' 24'49	
min. Earth dist.	16421 Nov 30 19:16 16421 Dec 03 17:01	27° x '33'32 25° x '40'38	0.55607 AU	min. Earth dist.	16422 Nov 11 22:26 16422 Nov 15 07:29	5° × '24'49	
morning rise	16421 Dec 08 21:45	23° x ° 40' 38' 22° x 7' 53' 37	5.5500 / AU	morning rise	16422 Nov 19 13:13	3° x 32 12 3° x 13'15	0.27300 AU
direct	16421 Dec 14 08:42	21° x ⁷ 46'13		direct	16422 Nov 25 16:57	1° × ⁷ 39'13	
morning max el	16421 Dec 28 08:15	28° × ⁷ 49'59	25°20'38	morning max el	16422 Dec 09 22:12	9° × ⁷ 05'28	26°49'11
	16421 Dec 29 12:38	0°る			16422 Dec 25 18:20	0°る	

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morning rise

16425 Sep 26 02:56

9°**£**07'04

desc. node

16426 Sep 12 13:27

20° m 29'28

direct	16426 Sep 15 19:23	19° m 49'08		min. Earth dist.	16427 Aug 20 01:42	10° m 53'52	0.67428 AU
morning max el	16426 Sep 28 23:32	27° Mp 35'34	26°44'21	morning rise	16427 Aug 20 01:42 16427 Aug 24 06:07	6° M) 11'06	0.07426 AU
morning max ci	16426 Oct 01 06:18	0° ⊽	20 44 21	direct	16427 Aug 30 04:04	3°M)38'09	
	16426 Oct 22 19:40	o° m		desc. node	16427 Aug 30 10:47	3°m/38'28	
morning set	16426 Nov 03 18:03	21°ML04'07		morning max el	16427 Sep 11 10:45	10° m ₂ 57'53	25°30'15
asc. node	16426 Nov 07 01:51	27°M31'47		morning man or	16427 Sep 26 15:49	0° ⊽	20 00 10
max. Earth dist.	16426 Nov 07 18:26	28°M54'16	1.34023 AU		16427 Oct 15 10:52	0° M	
	16426 Nov 08 07:33	0° ₹		morning set	16427 Oct 17 08:32	3°M24'14	
				max. Earth dist.	16427 Oct 20 22:07	9°M58'57	1.36079 AU
superior conj	16426 Nov 12 12:03	8° ≯ ³36′00	0°47'49	asc. node	16427 Oct 24 22:39	17° M 43'02	
minimum elong	16426 Nov 12 09:51	8° ∡ °24'32	0°48'01				
evening rise	16426 Nov 19 18:55	24° ∡ °02'37		superior conj	16427 Oct 27 03:50	22°MJ06'49	0°19'54
-	16426 Nov 22 15:37	ರ°ರ		minimum elong	16427 Oct 27 02:40	22°M00'56	0°20'09
desc. node	16426 Dec 09 11:25	26° පි 41'58			16427 Oct 31 01:03	0° ∡ ¹	
evening max el	16426 Dec 09 18:06	26° る 58'33	21°26'50	evening rise	16427 Nov 04 01:40	8° ∡ 16'49	
	16426 Dec 13 08:27	0° ≈			16427 Nov 15 19:18	ರ°0	
retrograde	16426 Dec 21 18:47	2° ≈ 55'12		evening max el	16427 Nov 21 20:15	7° る 38'37	20°03'10
evening set	16426 Dec 24 18:19	2° ≈ 34'52		desc. node	16427 Nov 26 08:28	11° る 11'03	
	16426 Dec 31 04:05	30°Ŗる		retrograde	16427 Dec 02 07:07	12° る 51'15	
inferior conj	16427 Jan 02 10:21	28° る 45'11		evening set	16427 Dec 04 10:43	12° る 39'04	
minimum elong	16427 Jan 02 05:22	28° る 52'10	5°53'01	inferior conj	16427 Dec 13 05:02	8° る 41'09	-4°53'51
min. Earth dist.	16427 Jan 02 19:49	28° る 31'55	0.54367 AU	minimum elong	16427 Dec 12 19:06	8° ろ 56'08	4°50'38
morning rise	16427 Jan 10 16:51	24° る 55'54		min. Earth dist.	16427 Dec 15 01:51	7° る 33'33	0.54910 AU
direct	16427 Jan 14 13:44	24° る 23'23		morning rise	16427 Dec 21 02:33	4° る 34'23	
	16427 Jan 26 16:55	0° ≈		direct	16427 Dec 26 01:02	3° る 41'21	
morning max el	16427 Jan 27 08:40	0° ≈ 36'43	22°29'38	morning max el	16428 Jan 08 17:21	10° る 28'05	24°19'51
asc. node	16427 Feb 03 00:44	8° ≈ 28'21		asc. node	16428 Jan 20 21:57	26° る 13'37	
	16427 Feb 15 08:09	0° ∀			16428 Jan 23 04:05	0° ≈	
morning set	16427 Feb 18 06:02	6°) €04'27		morning set	16428 Feb 02 18:01	20°≈46′22	
					16428 Feb 06 23:30	0° ∀	
superior conj	16427 Feb 25 06:21	21°) (06'00	1°18'56			>/	
minimum elong	16427 Feb 25 08:37	21°) 18'05	1°18'50	superior conj	16428 Feb 09 12:45	5°) (36′17	1°31'16
max. Earth dist.	16427 Feb 28 23:46	28°) 54'01	1.33840 AU	minimum elong	16428 Feb 09 14:18	5°) (44'41	1°31'28
	16427 Mar 01 12:39	0°Υ 7° Ω 40127		max. Earth dist.	16428 Feb 11 22:05	10°) (47'33	1.32383 AU
evening rise	16427 Mar 05 10:37	7° Υ 48'37		evening rise	16428 Feb 17 01:18	21° ¥ 32'25 0° Ƴ	
desc. node	16427 Mar 07 11:59	11° Y 45'04		daga mada	16428 Feb 21 08:43	1° Υ 52'54	
avanina may al	16427 Mar 17 21:54 16427 Apr 09 06:09	0°8 29°841'03	27°05'30	desc. node	16428 Feb 22 08:41 16428 Mar 10 18:46	1° ¥ 52′54 0° と	
evening max el	16427 Apr 09 06:09	0° Ⅱ	27 03 30	evening max el	16428 Mar 21 18:44	12° 8 56'03	27°33'45
retrograde	16427 Apr 22 16:51	0 H 7°∏12'10		retrograde	16428 Apr 04 14:19	20° 8 27'54	27 33 43
evening set	16427 Apr 29 06:32	4° Ⅱ 40'46		evening set	16428 Apr 11 09:02	18° 8 03'54	
asc. node	16427 May 01 22:11	2° П 15'47		min. Earth dist.	16428 Apr 15 03:39	14° 8 48'00	0.63630 AU
min. Earth dist.	16427 May 03 04:15	0° П 55'12	0.65570 AU	inferior conj	16428 Apr 17 22:19	11° 8 57'14	0°02'18
mm. Lattii dist.	16427 May 03 23:53	30°R8	0.03370710	minimum elong	16428 Apr 17 22:16	11° 8 57'23	0°01'54
inferior conj	16427 May 05 11:14	28° 8 18'49	1°04'13	transit middle	16428 Apr 17 22:16	11° 8 57'23	0°01'54
minimum elong	16427 May 05 09:38	28° 8 23'22	1°03'07	transit begin	16428 Apr 17 19:08	12° 8 05'27	
morning rise	16427 May 11 14:19	22° 8 47'09		transit end	16428 Apr 18 01:23	11° 8 49'20	
direct	16427 May 14 10:18	22° 8 03'52		asc. node	16428 Apr 17 19:24	12° 8 04'47	
morning max el	16427 May 20 17:28	25° 8 20'06	18°01'57	morning rise	16428 Apr 24 13:58	6° 8 40'49	
	16427 May 24 17:41	$\Pi^{\circ}0$		direct	16428 Apr 27 01:23	6° 8 10'34	
desc. node	16427 Jun 03 12:40	14° ∏ 52'44		morning max el	16428 May 03 10:56	9° 8 26'10	17°47'13
morning set	16427 Jun 08 03:32	22° II 23'13			16428 May 17 10:06	Π $^{\circ}0$	
	16427 Jun 12 20:10	0 \circ \odot		morning set	16428 May 20 01:36	4° Ⅱ 30′29	
				desc. node	16428 May 20 09:37	5° Ⅱ 04'37	
superior conj	16427 Jun 22 17:59	15° 5 47'33	-1°59'38				
minimum elong	16427 Jun 22 10:15	15° © 17'05	1°59'45	superior conj	16428 Jun 01 21:26	25° Ⅱ 56'54	-1°30'05
max. Earth dist.	16427 Jun 25 17:48	20° © 29'07	1.45862 AU	minimum elong	16428 Jun 01 13:25	25° Ⅱ 24'18	1°29'48
	16427 Jul 01 20:37	0 $^{\circ}$ Ω			16428 Jun 04 09:37	0	
evening rise	16427 Jul 08 21:04	10° Ω 49'39		max. Earth dist.	16428 Jun 07 13:14	5° © 01'39	1.44993 AU
greatest brilliancy	16427 Jul 21 17:42	0° Mp 21′03	-0.7m	evening rise	16428 Jun 17 07:37	20°513'34	
	16427 Jul 21 12:00	0° m			16428 Jun 23 18:26	$0^{\circ}\Omega$	
asc. node	16427 Jul 28 21:34	10° m/24'10		asc. node	16428 Jul 14 18:22	28° Ω 48'09	
evening max el	16427 Aug 02 14:28	15° m 51'33	19°24'51	evening max el	16428 Jul 15 17:04	29° Ω 46′32	20°24'38
retrograde	16427 Aug 09 16:56	19° m 48'09		_	16428 Jul 15 22:32	0° m/y	
evening set	16427 Aug 13 08:45	18° m 30'35	20.40:	retrograde	16428 Jul 23 16:00	4° Mp 18'36	
inferior conj	16427 Aug 18 18:05	12° Tp 37'53	2°49'57	evening set	16428 Jul 27 18:23	2° m/43'01	
minimum elong	16427 Aug 18 19:43	12°M 32'27	2°49'26		16428 Jul 30 11:01	30° R Ω	

inferior conj	16428 Aug 02 00:27	26° Ω 38'27	3°04'39	retrograde	16429 Jul 07 14:41	18° Ω 56'19	
minimum elong	16428 Aug 02 01:14	26° Ω 35'45	3°04'12	evening set	16429 Jul 12 04:10	17° Ω 03′28	
min. Earth dist.	16428 Aug 02 18:19	25° Ω 37'10	0.68485 AU	inferior conj	16429 Jul 17 09:39	10° Ω 48'33	3°07'56
morning rise	16428 Aug 07 07:46	20° Ω 14'37		minimum elong	16429 Jul 17 09:29	10° Ω 49'09	3°07'25
direct	16428 Aug 12 18:18	17° Ω 52'31		min. Earth dist.	16429 Jul 17 14:13	10° Ω 32'38	0.69062 AU
desc. node	16428 Aug 16 08:05	18° Ω 43'27		morning rise	16429 Jul 22 14:36	4° Ω 30′28	
morning max el	16428 Aug 23 21:51	24° Ω 32'05	24°04'06	direct	16429 Jul 27 13:01	2° Ω 23'50	
Ü	16428 Aug 28 19:52	0° m/p		desc. node	16429 Aug 03 05:24	5° Ω 20'22	
	16428 Sep 19 01:57	0∘ <u>⊽</u>		morning max el	16429 Aug 06 10:12	8° Ω 14'04	22°35'05
morning set	16428 Sep 28 04:13	14° £ 55'45			16429 Aug 23 10:27	0° m)	
max. Earth dist.	16428 Oct 01 21:16	21° ♀ 23'55	1.38435 AU	morning set	16429 Sep 09 01:18	25° m/29'53	
max. Lartii dist.	16428 Oct 06 14:56	0°M	1.50 1 55 AC	morning set	16429 Sep 11 19:02	ე∘ ত	
	10428 Oct 00 14.50	O IIG		max. Earth dist.	16429 Sep 13 21:35	ა <u>—</u> 3° — 31'37	1.40835 AU
	16420 0-+ 00 07-20	50 m 02127	0012110	max. Earth tist.	10429 Sep 13 21.33	3 = 31 37	1.40633 AU
superior conj	16428 Oct 09 07:29	5°M03'27			16420 0 21 10 40	170 0 1 (102	0040155
minimum elong	16428 Oct 09 08:23	5°M07'46	0°12'49	superior conj	16429 Sep 21 18:48	17° Ω 16'02	
behind sun begin	16428 Oct 09 04:06	4°M47'22		minimum elong	16429 Sep 21 22:46	17° ≏ 33'56	0°49'08
behind sun end	16428 Oct 09 12:41	5°M28′13		asc. node	16429 Sep 27 16:09	28° ♀ 05'00	
asc. node	16428 Oct 10 19:24	7°M55'26			16429 Sep 28 16:41	0° M	
evening rise	16428 Oct 18 02:54	22°M16'09		evening rise	16429 Oct 01 19:25	5° M 52′02	
	16428 Oct 22 02:10	0° ⊼ ¹			16429 Oct 16 08:50	0° ∡ ¹	
evening max el	16428 Nov 03 12:52	19° ₹ 09'19	19°01'34	evening max el	16429 Oct 17 17:06	1° ∡ ¹27'01	18°22'12
retrograde	16428 Nov 12 10:08	23° ∡ ³37'56		retrograde	16429 Oct 25 08:16	5° ₮ 20'04	
desc. node	16428 Nov 12 05:34	23° ∡ ³37'49		evening set	16429 Oct 27 08:34	5° ∡ ¹04'34	
evening set	16428 Nov 14 07:32	23° ∡ ¹26'35		desc. node	16429 Oct 30 02:44	3° ∡ ¹57'28	
inferior conj	16428 Nov 22 16:07	19° ∡ 10'57	-3°17'44	inferior conj	16429 Nov 04 00:49	0° ∡ ¹27'57	-1°35'17
minimum elong	16428 Nov 22 08:05	19° ∡ ¹24'51	3°14'10	minimum elong	16429 Nov 03 21:09	0° ∡ ³35′23	1°33'15
min. Earth dist.	16428 Nov 25 12:29	17° ∡ 12'49	0.56287 AU		16429 Nov 04 14:33	30°RM₊	
morning rise	16428 Nov 30 05:58	14° ∡ ′30'52	***************************************	min. Earth dist.	16429 Nov 07 06:36	27°M51'21	0.58254 AU
direct	16428 Dec 06 00:38	13°×712'37		morning rise	16429 Nov 11 06:15	25°M11'04	0.30231710
morning max el	16428 Dec 20 03:41	20° × 26'23	26°01'48	direct	16429 Nov 17 14:49	23°M25'42	
morning max cr	16428 Dec 28 08:48	20 x 2023	20 01 40	direct	16429 Nov 30 19:29	25 11 G 25 42	
aga mada	16429 Jan 06 19:08	14° る 45'59		marning may al		1° х ¹01'09	27917107
asc. node				morning max el	16429 Dec 01 21:25		2/ 1/0/
	16429 Jan 14 16:28	0°≈			16429 Dec 22 13:24	0°る	
morning set	16429 Jan 17 05:13	5° ≈ 22'02		asc. node	16429 Dec 24 16:16	3°る53'14	
				morning set	16430 Jan 01 13:53	19° る 46'47	
superior conj	16429 Jan 23 22:39	20° ≈ 13'33	1°37'26		16430 Jan 06 05:49	0° ≈	
minimum elong	16429 Jan 23 23:12	20° ≈ 16'34	1°37'52				
max. Earth dist.	16429 Jan 25 02:28	22° ≈ 48′10	1.31420 AU	superior conj	16430 Jan 08 10:03		1°37'31
	16429 Jan 28 09:15	0° ∀		minimum elong	16430 Jan 08 09:32	4°≈≈49'23	1°38'04
evening rise	1 C 4 O O Y O O O O O						
	16429 Jan 31 00:13	5°) 35′07		max. Earth dist.	16430 Jan 08 09:50	4°≈51'08	1.30986 AU
desc. node	16429 Jan 31 00:13 16429 Feb 08 05:24	5°) 35′07 21°) 42′41		•			1.30986 AU
desc. node				max. Earth dist.	16430 Jan 08 09:50	4° ≈ 51'08	1.30986 AU
desc. node evening max el	16429 Feb 08 05:24	21°) 42'41	27°31'05	max. Earth dist.	16430 Jan 08 09:50 16430 Jan 15 04:59	4°≈51'08 19°≈51'17	1.30986 AU
	16429 Feb 08 05:24 16429 Feb 12 23:21	21°) 42'41 0° °	27°31'05	max. Earth dist. evening rise	16430 Jan 08 09:50 16430 Jan 15 04:59 16430 Jan 20 03:03	4°≈51'08 19°≈51'17 0°¥	1.30986 AU
	16429 Feb 08 05:24 16429 Feb 12 23:21 16429 Mar 04 03:46	21°¥42'41 0°Υ 25°Υ33'56	27°31'05	max. Earth dist. evening rise	16430 Jan 08 09:50 16430 Jan 15 04:59 16430 Jan 20 03:03 16430 Jan 26 02:09	4°≈51'08 19°≈51'17 0°¥ 11°¥07'27	1.30986 AU 26°53'39
evening max el	16429 Feb 08 05:24 16429 Feb 12 23:21 16429 Mar 04 03:46 16429 Mar 09 14:30 16429 Mar 18 03:49	21°) 42'41 0°Υ 25°Υ33'56 0°8	27°31'05	max. Earth dist. evening rise desc. node evening max el	16430 Jan 08 09:50 16430 Jan 15 04:59 16430 Jan 20 03:03 16430 Jan 26 02:09 16430 Feb 07 14:32 16430 Feb 14 06:55	4°≈51'08 19°≈51'17 0° X 11° X 07'27 0° Υ	
evening max el	16429 Feb 08 05:24 16429 Feb 12 23:21 16429 Mar 04 03:46 16429 Mar 09 14:30 16429 Mar 18 03:49 16429 Mar 24 22:38	21° χ42'41 0° Υ 25° Υ33'56 0° ႘ 3° ႘00'01 0° ႘50'49	27°31'05	max. Earth dist. evening rise desc. node evening max el retrograde	16430 Jan 08 09:50 16430 Jan 15 04:59 16430 Jan 20 03:03 16430 Jan 26 02:09 16430 Feb 07 14:32 16430 Feb 14 06:55 16430 Feb 28 08:02	4°≈51'08 19°≈51'17 0° X 11° X 07'27 0° Υ 7° Υ 24'45 14° Υ 40'15	
evening max el retrograde evening set	16429 Feb 08 05:24 16429 Feb 12 23:21 16429 Mar 04 03:46 16429 Mar 09 14:30 16429 Mar 18 03:49 16429 Mar 24 22:38 16429 Mar 26 04:40	21°\dagger42'41 0°\gamma 25°\gamma33'56 0°\dagger 3°\dagger50'01 0°\dagger50'49 30°\bar{g}		max. Earth dist. evening rise desc. node evening max el retrograde evening set	16430 Jan 08 09:50 16430 Jan 15 04:59 16430 Jan 20 03:03 16430 Jan 26 02:09 16430 Feb 07 14:32 16430 Feb 14 06:55 16430 Feb 28 08:02 16430 Mar 06 20:17	4°≈51'08 19°≈51'17 0° ₩ 11° ₩ 07'27 0° Ψ 7° Ψ 24'45 14° Ψ 40'15 12° Ψ 53'03	26°53'39
evening max el retrograde evening set min. Earth dist.	16429 Feb 08 05:24 16429 Feb 12 23:21 16429 Mar 04 03:46 16429 Mar 09 14:30 16429 Mar 18 03:49 16429 Mar 24 22:38 16429 Mar 26 04:40 16429 Mar 28 17:21	21°\(\)42'41 0°\(\)' 25°\(\)'33'56 0°\(\) 3°\(\)600'01 0°\(\)550'49 30°\(\)R\(\)' 27°\(\)'57'57	0.61438 AU	max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	16430 Jan 08 09:50 16430 Jan 15 04:59 16430 Jan 20 03:03 16430 Jan 26 02:09 16430 Feb 07 14:32 16430 Feb 14 06:55 16430 Feb 28 08:02 16430 Mar 06 20:17 16430 Mar 10 21:00	4°≈51'08 19°≈51'17 0° ₩ 11° ₩ 07'27 0° Ψ 7° Ψ 24'45 14° Ψ 40'15 12° Ψ 53'03 10° Ψ 13'15	26°53'39 0.59170 AU
evening max el retrograde evening set min. Earth dist. inferior conj	16429 Feb 08 05:24 16429 Feb 12 23:21 16429 Mar 04 03:46 16429 Mar 09 14:30 16429 Mar 18 03:49 16429 Mar 24 22:38 16429 Mar 26 04:40 16429 Mar 28 17:21 16429 Mar 31 20:35	21°\(\frac{4}{2}\)'41 0°\(\frac{9}{2}\)'25°\(\frac{9}{3}\)'33'56 0°\(\frac{9}{3}\)'800'01 0°\(\frac{8}{5}\)'49 30°\(\frac{9}{8}\)' 27°\(\frac{9}{5}\)'57'57 25°\(\frac{9}{2}\)'707'35	0.61438 AU -1°13'51	max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	16430 Jan 08 09:50 16430 Jan 15 04:59 16430 Jan 20 03:03 16430 Jan 26 02:09 16430 Feb 07 14:32 16430 Feb 14 06:55 16430 Feb 28 08:02 16430 Mar 06 20:17 16430 Mar 10 21:00 16430 Mar 14 02:21	4°≈51'08 19°≈51'17 0° ₩ 11° ₩07'27 0° Ψ 7° Ψ24'45 14° Ψ40'15 12° Ψ53'03 10° Ψ13'15 7° Ψ40'38	26°53'39 0.59170 AU -2°41'47
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	16429 Feb 08 05:24 16429 Feb 12 23:21 16429 Mar 04 03:46 16429 Mar 09 14:30 16429 Mar 18 03:49 16429 Mar 24 22:38 16429 Mar 26 04:40 16429 Mar 28 17:21 16429 Mar 31 20:35 16429 Mar 31 23:13	21°\(\frac{4}{2}'41\) 0°\(\frac{9}{2}'5^\circ\(\frac{7}{3}\)3'56 0°\(\frac{8}{3}'500'01\) 0°\(\frac{8}{5}0'49\) 30°\(\frac{9}{2}'7^\circ\(\frac{7}{5}'57\) 25°\(\frac{9}{2}07'35\) 25°\(\frac{9}{2}01'36\)	0.61438 AU	max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	16430 Jan 08 09:50 16430 Jan 15 04:59 16430 Jan 20 03:03 16430 Jan 26 02:09 16430 Feb 07 14:32 16430 Feb 14 06:55 16430 Feb 28 08:02 16430 Mar 06 20:17 16430 Mar 10 21:00 16430 Mar 14 02:21 16430 Mar 14 08:34	4°≈51'08 19°≈51'17 0°₩ 11°₩07'27 0°Ψ 7°Ψ24'45 14°Ψ40'15 12°Ψ53'03 10°Ψ13'15 7°Ψ40'38 7°Ψ28'19	26°53'39 0.59170 AU -2°41'47
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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	16429 Feb 08 05:24 16429 Feb 12 23:21 16429 Mar 04 03:46 16429 Mar 09 14:30 16429 Mar 18 03:49 16429 Mar 24 22:38 16429 Mar 26 04:40 16429 Mar 31 20:35 16429 Mar 31 23:13 16429 Apr 04 16:40 16429 Apr 08 03:06 16429 Apr 10 07:16 16429 Apr 10 07:16 16429 Apr 22 12:34 16429 May 02 21:03 16429 May 07 06:29 16429 May 09 20:24	21°\(\cdot\)42'41 0°\(\cdot\) 25°\(\cdot\)33'56 0°\(\cdot\) 3°\(\cdot\)60'01 0°\(\cdot\)50'49 30°\(\cdot\)75'57 25°\(\cdot\)7'35 25°\(\cdot\)7'56'12 20°\(\cdot\)90'10 19°\(\cdot\)48'41 23°\(\cdot\)15'25 0°\(\cdot\) 17°\(\cdot\)36'46 25°\(\cdot\)27'20 0°\(\dot\)	0.61438 AU -1°13'51 1°13'00 17°50'21 -0°53'13 0°53'04	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	16430 Jan 08 09:50 16430 Jan 15 04:59 16430 Jan 20 03:03 16430 Jan 26 02:09 16430 Feb 07 14:32 16430 Feb 28 08:02 16430 Mar 06 20:17 16430 Mar 10 21:00 16430 Mar 14 02:21 16430 Mar 14 08:34 16430 Mar 22 00:28 16430 Mar 22 13:59 16430 Mar 23 23:52 16430 Mar 31 16:50 16430 Apr 15 13:55 16430 Apr 16 08:09 16430 Apr 24 03:18	4°≈51'08 19°≈51'17 0° ₩ 11° ₩ 07'27 0° Ψ 7° Ψ 24'45 14° Ψ 40'15 12° Ψ 53'03 10° Ψ 13'15 7° Ψ 28'19 3° Ψ 02'32 2° Ψ 55'34 2° Ψ 48'10 6° Ψ 37'43 0° ₩ 1° ₩ 25'31 15° ₩ 56'45 19° ₩ 22'51 19° ₩ 17'07 0° Щ	26°53'39 0.59170 AU -2°41'47 2°39'27 18°12'25 -0°15'46 0°16'00
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.	16429 Feb 08 05:24 16429 Feb 12 23:21 16429 Mar 04 03:46 16429 Mar 09 14:30 16429 Mar 18 03:49 16429 Mar 24 22:38 16429 Mar 26 04:40 16429 Mar 31 20:35 16429 Mar 31 23:13 16429 Apr 04 16:40 16429 Apr 08 03:06 16429 Apr 10 07:16 16429 Apr 10 07:16 16429 Apr 22 12:34 16429 May 02 21:03 16429 May 07 06:29 16429 May 09 20:24 16429 May 13 23:53 16429 May 13 19:06 16429 May 21 04:39	21°\(\cdot\)42'41 0°\(\cdot\) 25°\(\cdot\)33'56 0°\(\cdot\) 3°\(\cdot\)60'01 0°\(\cdot\)50'49 30°\(\cdot\)757'57 25°\(\cdot\)07'35 25°\(\cdot\)01'36 21°\(\cdot\)56'12 20°\(\cdot\)09'10 19°\(\cdot\)48'41 23°\(\cdot\)15'25 0°\(\cdot\) 17°\(\cdot\)36'46 25°\(\cdot\)27'20 0°\(\cdot\) 7°\(\cdot\)09'34 6°\(\cdot\)49'09 19°\(\cdot\)08'16	0.61438 AU -1°13'51 1°13'00 17°50'21 -0°53'13 0°53'04	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.	16430 Jan 08 09:50 16430 Jan 15 04:59 16430 Jan 20 03:03 16430 Jan 26 02:09 16430 Feb 07 14:32 16430 Feb 14 06:55 16430 Feb 28 08:02 16430 Mar 06 20:17 16430 Mar 10 21:00 16430 Mar 14 02:21 16430 Mar 14 08:34 16430 Mar 22 00:28 16430 Mar 22 13:59 16430 Mar 23 23:52 16430 Mar 31 16:50 16430 Apr 15 13:55 16430 Apr 16 08:09 16430 Apr 24 03:18 16430 Apr 26 00:48 16430 Apr 26 00:48 16430 Apr 27 20:06 16430 Mar 07 20:06 16430 Mar 07 15:05	4°≈51'08 19°≈51'17 0° ₩ 11° ₩ 07'27 0° Ψ 7° Ψ 24'45 14° Ψ 40'15 12° Ψ 53'03 10° Ψ 13'15 7° Ψ 28'19 3° Ψ 02'32 2° Ψ 55'34 2° Ψ 48'10 6° Ψ 37'43 0° ₩ 1° ₩ 25'31 15° ₩ 56'45	26°53'39 0.59170 AU -2°41'47 2°39'27 18°12'25 -0°15'46 0°16'00
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.	16429 Feb 08 05:24 16429 Feb 12 23:21 16429 Mar 04 03:46 16429 Mar 09 14:30 16429 Mar 18 03:49 16429 Mar 24 22:38 16429 Mar 26 04:40 16429 Mar 31 20:35 16429 Mar 31 23:13 16429 Apr 08 03:06 16429 Apr 10 07:16 16429 Apr 10 07:16 16429 Apr 22 12:34 16429 May 02 21:03 16429 May 07 06:29 16429 May 09 20:24 16429 May 13 23:53 16429 May 13 19:06 16429 May 21 04:39 16429 May 22 10:39	21° \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0.61438 AU -1°13'51 1°13'00 17°50'21 -0°53'13 0°53'04	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	16430 Jan 08 09:50 16430 Jan 15 04:59 16430 Jan 20 03:03 16430 Jan 26 02:09 16430 Feb 07 14:32 16430 Feb 14 06:55 16430 Feb 28 08:02 16430 Mar 06 20:17 16430 Mar 10 21:00 16430 Mar 14 02:21 16430 Mar 14 08:34 16430 Mar 22 00:28 16430 Mar 22 13:59 16430 Mar 23 23:52 16430 Mar 31 16:50 16430 Apr 15 13:55 16430 Apr 16 08:09 16430 Apr 24 03:18 16430 Apr 26 00:48 16430 Apr 26 00:48 16430 Apr 26 00:48 16430 Apr 27 20:06 16430 Mar 03 15:05 16430 Mar 03 15:05 16430 Mar 03 15:05	4°≈51'08 19°≈51'17 0° ₩ 11° ₩ 07'27 0° Ψ 7° Ψ 24'45 14° Ψ 40'15 12° Ψ 53'03 10° Ψ 13'15 7° Ψ 40'38 7° Ψ 28'19 3° Ψ 02'32 2° Ψ 55'34 2° Ψ 48'10 6° Ψ 37'43 0° ₩ 1° ₩ 25'31 15° ₩ 56'45 19° ₩ 22'51 19° ₩ 17'07 0° Ⅲ 2° Ⅲ 37'04 10° Ⅲ 34'56	26°53'39 0.59170 AU -2°41'47 2°39'27 18°12'25 -0°15'46 0°16'00 1.41496 AU
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	16429 Feb 08 05:24 16429 Feb 12 23:21 16429 Mar 04 03:46 16429 Mar 09 14:30 16429 Mar 18 03:49 16429 Mar 24 22:38 16429 Mar 26 04:40 16429 Mar 31 20:35 16429 Mar 31 23:13 16429 Apr 04 16:40 16429 Apr 08 03:06 16429 Apr 10 07:16 16429 Apr 10 07:16 16429 Apr 22 12:34 16429 May 02 21:03 16429 May 07 06:29 16429 May 09 20:24 16429 May 13 23:53 16429 May 13 19:06 16429 May 21 04:39 16429 May 28 00:10 16429 May 28 00:24 16429 May 28 00:24	21°\(\cdot\)42'41 0°\(\cdot\) 25°\(\cdot\)33'56 0°\(\cdot\) 3°\(\cdot\)600'01 0°\(\cdot\)50'49 30°\(\cdot\)7'57'57 25°\(\cdot\)07'35 25°\(\cdot\)07'35 25°\(\cdot\)07'35 25°\(\cdot\)07'36 21°\(\cdot\)56'12 20°\(\cdot\)09'10 19°\(\cdot\)48'41 23°\(\cdot\)15'25 0°\(\cdot\) 17°\(\cdot\)36'46 25°\(\cdot\)27'20 0°\(\cdot\) 7°\(\cdot\)09'34 6°\(\cdot\)49'09 19°\(\cdot\)08'16 29°\(\cdot\)59'06 0°\(\cdot\)0°\(\cd	0.61438 AU -1°13'51 1°13'00 17°50'21 -0°53'13 0°53'04 1.43482 AU	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.	16430 Jan 08 09:50 16430 Jan 15 04:59 16430 Jan 20 03:03 16430 Jan 26 02:09 16430 Feb 07 14:32 16430 Feb 14 06:55 16430 Feb 28 08:02 16430 Mar 06 20:17 16430 Mar 10 21:00 16430 Mar 14 02:21 16430 Mar 14 08:34 16430 Mar 22 00:28 16430 Mar 22 13:59 16430 Mar 23 23:52 16430 Mar 31 16:50 16430 Apr 15 13:55 16430 Apr 16 08:09 16430 Apr 24 03:18 16430 Apr 25 23:32 16430 May 02 02:06 16430 May 03 15:05 16430 May 08 10:39 16430 May 08 10:39 16430 May 02 24:00 16430 May 02 02:400 16430 May 02 02:400	4°≈51'08 19°≈51'17 0° ₩ 11° ₩07'27 0° Ψ 7° Ψ24'45 14° Ψ40'15 12° Ψ53'03 10° Ψ13'15 7° Ψ40'38 7° Ψ28'19 3° Ψ02'32 2° Ψ55'34 2° Ψ48'10 6° Ψ37'43 0° ₩ 1° ₩25'31 15° ₩56'45 19° ₩22'51 19° ₩17'07 0° Щ 2° Щ37'04 10° Щ34'56 0° © 27° \$35'42	26°53'39 0.59170 AU -2°41'47 2°39'27 18°12'25 -0°15'46 0°16'00 1.41496 AU
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.	16429 Feb 08 05:24 16429 Feb 12 23:21 16429 Mar 04 03:46 16429 Mar 09 14:30 16429 Mar 18 03:49 16429 Mar 24 22:38 16429 Mar 26 04:40 16429 Mar 31 20:35 16429 Mar 31 23:13 16429 Apr 04 16:40 16429 Apr 08 03:06 16429 Apr 10 07:16 16429 Apr 10 07:16 16429 Apr 22 12:34 16429 May 02 21:03 16429 May 07 06:29 16429 May 09 20:24 16429 May 13 23:53 16429 May 13 19:06 16429 May 21 04:39 16429 May 28 00:10 16429 May 28 00:24	21° \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0.61438 AU -1°13'51 1°13'00 17°50'21 -0°53'13 0°53'04 1.43482 AU	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	16430 Jan 08 09:50 16430 Jan 15 04:59 16430 Jan 20 03:03 16430 Jan 26 02:09 16430 Feb 07 14:32 16430 Feb 14 06:55 16430 Feb 28 08:02 16430 Mar 06 20:17 16430 Mar 10 21:00 16430 Mar 14 02:21 16430 Mar 14 08:34 16430 Mar 22 00:28 16430 Mar 22 13:59 16430 Mar 23 23:52 16430 Mar 31 16:50 16430 Apr 15 13:55 16430 Apr 16 08:09 16430 Apr 24 03:18 16430 Apr 25 23:32 16430 May 02 02:06 16430 May 03 15:05 16430 May 08 10:39 16430 May 08 10:39 16430 May 08 10:39	4°≈51'08 19°≈51'17 0° ₩ 11° ₩07'27 0° Ψ 7° Ψ24'45 14° Ψ40'15 12° Ψ53'03 10° Ψ13'15 7° Ψ40'38 7° Ψ28'19 3° Ψ02'32 2° Ψ55'34 2° Ψ48'10 6° Ψ37'43 0° ₩ 1° ₩25'31 15° ₩56'45 19° ₩22'51 19° ₩17'07 0° Ⅲ 2° Ⅲ37'04 10° Ⅲ34'56 0° €	26°53'39 0.59170 AU -2°41'47 2°39'27 18°12'25 -0°15'46 0°16'00 1.41496 AU

matria ama da	16420 Jun 21 11:25	3° Ω 35'43		ovening moved	16421 May 24 10:49	110@21122	24919102
retrograde	16430 Jun 21 11:25 16430 Jun 26 12:26	1°Ω27'24		evening max el	16431 May 24 19:48 16431 Jun 05 04:50	11° © 31'32 18° © 10'45	24-18 02
evening set	16430 Jun 27 24:00	30°RS		retrograde asc. node	16431 Jun 05 09:14	18°9510'36	
inferior conj	16430 Jul 01 19:43	25°\$04'08	3°00'37	evening set	16431 Jun 10 17:31	15° © 49'45	
minimum elong	16430 Jul 01 18:39	25°507'51	2°59'54	min. Earth dist.	16431 Jun 15 07:11	10°S33'32	0.68747 AU
min. Earth dist.	16430 Jul 01 11:14	25°533'34	0.69151 AU	inferior conj	16431 Jun 16 04:41	9° © 20'57	2°42'50
morning rise	16430 Jul 07 00:44	18°953'45	0.09131 AU	minimum elong	16431 Jun 16 02:54		2°41'51
direct	16430 Jul 11 11:06	17°905'25		morning rise	16431 Jun 21 12:21	3° © 19'44	2 41 31
morning max el	16430 Jul 20 02:27	22°504'32	21°11'11	direct	16431 Jun 25 11:03	1°950'55	
desc. node		22 \$04 32 23°\$06'46	21 11 11		16431 Jul 03 01:08	6°905'29	19°58'25
desc. Hode	16430 Jul 21 02:40 16430 Jul 26 21:40	0°Ω		morning max el desc. node	16431 Jul 07 23:51	11°5944'34	19 36 23
	16430 Aug 16 16:19	0°m)		desc. Hode	16431 Jul 20 22:16	0°Ω	
morning set	16430 Aug 19 23:04	5° Mp 05'23		morning set	16431 Jul 30 05:09	14° Ω 03'41	
morning set	•		1 42002 AII	morning set			
max. Earth dist.	16430 Aug 27 03:39	16° Mp 33'06	1.43003 AU	max. Earth dist.	16431 Aug 09 10:41	0° Т р 0° Т р 23'55	1.44689 AU
superior conj	16430 Sep 03 09:28	28° m 35'26	102620	max. Earth dist.	16431 Aug 09 16:43	0 11/2333	1.44069 AU
minimum elong	16430 Sep 03 16:32	28 m/35 20 29° m/05'30		superior conj	16/31 Aug 15 00:47	8° m 56'57	1056'34
minimum ciong	16430 Sep 04 05:19	0° ⊽	1 23 31	minimum elong	16431 Aug 15 00:47	9° m) 27'58	
ovening rise		0 = 18° £ 54'02		minimum ciong	16431 Aug 15 08:27 16431 Aug 27 16:28	0° ⊽	1 30 10
evening rise asc. node	16430 Sep 14 23:06	18° 2 08'07		evening rise	16431 Aug 27 16.28 16431 Aug 28 08:55	0 <u>≈</u> 1° Ω 09'57	
asc. node	16430 Sep 14 12:52	0°M		asc. node	Č	8° £ 0937	
	16430 Sep 21 05:21		10002121		16431 Sep 01 09:35		10002120
evening max el	16430 Oct 01 04:39	14°M21'49	18°03'21	evening max el	16431 Sep 14 19:26	27° Ω 44'00	18°03'30
retrograde	16430 Oct 07 23:57	17°M51'57		. 1	16431 Sep 17 15:34	0°M	
evening set	16430 Oct 10 07:09	17°M28'04	0004155	retrograde	16431 Sep 21 05:09	1°M04'45	
inferior conj	16430 Oct 17 06:13	12°M30'45		evening set	16431 Sep 23 20:37	0°M28'57	
minimum elong	16430 Oct 17 06:04	12°M31'07			16431 Sep 24 19:02	30°R <u>Ω</u>	1006140
transit middle	16430 Oct 17 06:04	12°M31'07	0°04'28	inferior conj	16431 Sep 30 04:48	25° Ω 13'10	1°06'42
transit begin	16430 Oct 17 02:53	12°M38'32		minimum elong	16431 Sep 30 06:32	25° Ω 08'32	1°06'18
transit end	16430 Oct 17 09:14	12°M23'40		min. Earth dist.	16431 Oct 02 22:59	22° Ω 18'07	0.62793 AU
desc. node	16430 Oct 17 00:00	12°M45'16		desc. node	16431 Oct 03 21:18	21° Ω 22'37	
min. Earth dist.	16430 Oct 20 09:48	9°M34'47	0.60518 AU	morning rise	16431 Oct 06 14:09	19° Ω 03'37	
morning rise	16430 Oct 24 01:51	6°M42'57		direct	16431 Oct 13 06:27	16° △ 37'01	25052152
direct	16430 Oct 30 17:32	4°M33'31		morning max el	16431 Oct 27 06:41	24° △ 34'29	27°53'53
morning max el	16430 Nov 13 23:02	12°M23'55	27°55'06		16431 Nov 01 05:21	0°M	
	16430 Nov 27 22:14	0° ∡		_	16431 Nov 21 08:16	0° ∡ 7	
asc. node	16430 Dec 11 13:19	23° ₹ 25'18		asc. node	16431 Nov 28 10:18	13° ∡ 15′22	
	16430 Dec 14 20:38	0° る		morning set	16431 Nov 30 15:24	17° ∡ ′41′29	
morning set	16430 Dec 16 17:59	3° る 54'47		max. Earth dist.	16431 Dec 05 18:52	28° ∡ ′30′02	1.31800 AU
max. Earth dist.	16430 Dec 22 16:32	16° る 47'37	1.31107 AU		16431 Dec 06 11:29	0°₹	
superior conj	16430 Dec 23 20:59	19° ろ 26'00	1031133	superior conj	16431 Dec 08 05:36	3°₹50'05	1°19'28
minimum elong	16430 Dec 23 19:31	19° る 17'47		minimum elong	16431 Dec 08 03:27	3°る38'14	1°19'52
minimum clong	16430 Dec 28 14:51	0°≈	1 32 03	evening rise	16431 Dec 15 00:02	18° る 42'18	1 1932
evening rise	16430 Dec 30 13:32	0 ~ 4°≈15'00		evening rise	16431 Dec 20 10:19	0°≈	
desc. node	16431 Jan 12 22:58	29°≈56'58		desc. node	16431 Dec 30 19:50	17° ≈ 58'39	
dese. Hode	16431 Jan 12 23:43	0° ∺		evening max el	16432 Jan 08 13:39	28°≈35'12	24°06'37
evening max el	16431 Jan 27 02:06	18° ¥ 22'38	25°42'30	evening max er	16432 Jan 10 02:59	20 ≈ 33 12 0° H	24 00 37
retrograde	16431 Feb 10 00:25	25°\(\frac{1}{2}\)25'59	23 42 30	retrograde	16432 Jan 22 03:02	5° ∺ 19'10	
evening set	16431 Feb 15 22:16	24° H 03'30		evening set	16432 Jan 27 01:49	4°) €25'56	
min. Earth dist.	16431 Feb 20 15:04		0.57067 AU	min. Earth dist.	16432 Feb 02 01:18		0.55415 AU
inferior conj	16431 Feb 23 12:04	19° H 25'47		inferior conj	16432 Feb 04 00:33	0°) 18'09	
minimum elong	16431 Feb 23 21:16	19° X 10'03		minimum elong	16432 Feb 04 08:38	0° X 1809	
morning rise	16431 Mar 03 23:14	15° ¥ 08'54	4 10 00	minimum clong	16432 Feb 04 12:38	0 7(03 39 30°R≈	3 20 38
direct	16431 Mar 05 22:56	14° H 56'46		morning rise	16432 Feb 12 17:15	26°≈20'24	
asc. node	16431 Mar 09 11:19	15°\(\)36'56		direct	16432 Feb 15 02:25	26°≈05'51	
morning max el	16431 Mar 14 21:30	19° X 19'57	18°55'22	asc. node	16432 Feb 24 08:38	0°) 04'05	
morning max ci	16431 Mar 14 21:30	19 χ 1937	10 33 44	asc. nouc	16432 Feb 24 06:43	0 X 0403 0° X	
morning set	16431 Mar 31 06:03	15° Υ 41'49		morning max el	16432 Feb 25 13:40		20°01'14
morning set	16431 Apr 07 13:51	0° 8		morning set	16432 Mar 14 11:07	0°Υ15'09	20 01 14
	10-131 гурт 07 13.31	v O		morning set	16432 Mar 14 11.07	0 Y 13 09 0° Υ	
superior conj	16431 Apr 08 20:16	2° 8 25'06	0°18'13		10.02 11111 17 00.00	V 1	
minimum elong	16431 Apr 08 21:25	2° 8 30'33	0°17'44	superior conj	16432 Mar 22 06:00	16° Y ′04'50	0°46'43
desc. node	16431 Apr 11 00:03	6° 8 28'28		minimum elong	16432 Mar 22 08:19	16°Υ16'23	0°46'13
max. Earth dist.	16431 Apr 15 22:01	15° 8 24'22	1.39243 AU	desc. node	16432 Mar 27 20:46	26° Y '58'59	· -
evening rise	16431 Apr 19 18:27	22° 8 06'02		max. Earth dist.	16432 Mar 28 04:41	27° Y '36'12	1.36961 AU
U	16431 Apr 24 12:22	0°II			16432 Mar 29 11:33	0°8	-
	16431 May 14 22:28	0.ee		evening rise	16432 Mar 31 21:57	4° 8 26'12	
	,			<i>3</i>			

	16432 Apr 16 11:48	0°Щ		evening rise	16433 Mar 14 17:49	17° Ƴ 26'19	
evening max el	16432 May 06 09:17	25° II 25'53	25°34'14	desc. node	16433 Mar 14 17:27	17° Υ 24'36	
evening max er	16432 May 11 19:24	0°95	23 34 14	desc. node	16433 Mar 21 16:44	0° 8	
retrograde	16432 May 18 17:55	2°934'36			16433 Apr 10 18:36	0°U	
asc. node	16432 May 22 06:19	1°9544'24		evening max el	16433 Apr 18 22:56	9° Ⅱ 13'01	26°37'40
evening set	16432 May 24 17:43	0°904'56		retrograde	16433 May 02 01:51	16° Ⅲ 39'51	20 37 40
evening set	16432 May 24 20:02	30°RⅡ		evening set	16433 May 08 11:14	14° II 06'56	
min. Earth dist.	16432 May 28 23:55	25° Ⅱ 25'41	0.67863 AU	asc. node	16433 May 09 03:26	13° II 32'33	
inferior conj	16432 May 30 10:35	23° I I34'24	2°14'07	min. Earth dist.	16433 May 12 11:27	10° Ⅱ 02'49	0.66523 AU
minimum elong	16432 May 30 08:25	23° I I41'23	2°12'54	inferior conj	16433 May 14 11:16	7° П 39'52	1°33'29
morning rise	16432 Jun 04 23:36	17° I I43'38	2 123 1	minimum elong	16433 May 14 09:15		1°32'16
direct	16432 Jun 08 11:14	16° Ⅲ 34'02		morning rise	16433 May 20 08:25	2° I 100'57	1 32 10
morning max el	16432 Jun 15 07:05	20° I 15'42	19°00'15	direct	16433 May 23 09:48	1° I 108'54	
morning max or	16432 Jun 23 04:03	0°95	17 00 12	morning max el	16433 May 29 19:22	4° Ⅱ 30'51	18°18'24
desc. node	16432 Jun 23 20:57	1° © 00'03		desc. node	16433 Jun 10 17:59	20° I I43'26	10 10 24
greatest brilliancy	16432 Jun 28 09:47	7°9540'26	-0.7m	dese. Hode	16433 Jun 16 14:57	0°95	
morning set	16432 Jul 08 13:09	23°S12'09	0.7111	morning set	16433 Jun 18 17:11	3° © 19'48	
morning set	16432 Jul 12 22:36	0°Ω		morning set	10433 Juli 10 17.11	3 31740	
max. Earth dist.	16432 Jul 22 10:49		1.45726 AU	superior conj	16433 Jul 04 04:22	27° © 41'33	-2°10'10
max. Earth dist.	10432 Jul 22 10.4)	14 004/1/	1.43/20/10	minimum elong	16433 Jul 03 23:31	27° 5 22'41	2°10'36
superior conj	16432 Jul 24 19:10	18° Ω 28'02	-2°13'05	max. Earth dist.	16433 Jul 05 07:05	29°925'44	1.46025 AU
minimum elong	16432 Jul 24 22:04	18° Ω 39'25		max. Earth dist.	16433 Jul 05 15:53	0°Ω	1.40023710
minimum clong	16432 Aug 01 02:07	0° m)	2 13 30	evening rise	16433 Jul 20 05:18	22° Ω 40'19	
evening rise	16432 Aug 08 19:40	12° Mp 26'24		evening rise	16433 Jul 24 22:10	0° m)	
asc. node	16432 Aug 18 06:18	27° m/38'08		greatest brilliancy	16433 Jul 30 07:46	8° Mp 19'52	-0.8m
use. Houe	16432 Aug 19 18:55	0° ⊽		asc. node	16433 Aug 05 03:04	16° m) 53'35	0.0111
evening max el	16432 Aug 28 09:50	0 — 11° ≏ 23'22	18°21'39	evening max el	16433 Aug 11 21:05	25° m) 13'04	18°57'02
retrograde	16432 Sep 03 19:28	14° ≏ 48'12	10 21 37	retrograde	16433 Aug 18 15:15	28° m) 54'47	10 37 02
evening set	16432 Sep 06 19:51	13° ⊆ 57'41		evening set	16433 Aug 22 01:09	27° m) 47'35	
inferior conj	16432 Sep 12 16:28	8° ₽ 25'59	1°59'31	inferior conj	16433 Aug 27 13:41	22° m) 02'06	2°35'40
minimum elong	16432 Sep 12 18:46	8° ≏ 19'10	1°58'52	minimum elong	16433 Aug 27 15:43	21° m 55'37	2°35'06
min. Earth dist.	16432 Sep 14 21:55	5° ₽ 49'00	0.64868 AU	min. Earth dist.	16433 Aug 29 05:21	19° m) 55'57	0.66609 AU
morning rise	16432 Sep 14 21:33	2° £ 03'52	0.04000710	morning rise	16433 Sep 02 05:25	15° m ₂ 35'05	0.00007710
desc. node	16432 Sep 19 18:37	1° ⊆ 15'03		desc. node	16433 Sep 02 05:25	13° m) 10'20	
dese. Hode	16432 Sep 22 04:35	30°RM)		direct	16433 Sep 08 09:04	12° m) 58'52	
direct	16432 Sep 25 03:59	29° m/28'17		morning max el	16433 Sep 21 05:13	20° m) 36'28	26°14'56
direct	16432 Sep 28 07:22	0° ⊽		morning max er	16433 Sep 29 08:07	0° ⊽	20 1430
morning max el	16432 Oct 08 17:33	ა _ 7° ჲ 22'42	27°17'53		16433 Oct 19 09:22	o° m	
morning max cr	16432 Oct 26 06:04	0°M	27 1733	morning set	16433 Oct 27 02:56	13°M45'00	
	16432 Nov 12 15:02	0° ∡ 7		max. Earth dist.	16433 Oct 30 21:51	20°M58'15	1.34845 AU
morning set	16432 Nov 13 03:27	1°×7'00'30		asc. node	16433 Nov 01 04:04	23°M26'26	1.54045 710
asc. node	16432 Nov 14 07:13	3° × 17'13		use. Houe	16433 Nov 04 10:23	0° √	
max. Earth dist.	16432 Nov 17 13:17	9° x 1713	1.33058 AU		10433 1107 04 10.23	· ^	
max. Latin dist.	104321(0) 17 13.17	7 7 32 23	1.55050 AC	superior conj	16433 Nov 05 06:53	1° ∡ °44'57	0°36'42
superior conj	16432 Nov 21 09:44	17° ∡ 758'17	1°01'11	minimum elong	16433 Nov 05 05:00	1°×735'16	0°36'53
minimum elong	16432 Nov 21 07:21	17° х 36 17	1°01'15	evening rise	16433 Nov 12 19:24	17° ₹ '28'08	0 30 33
minimum ciong	16432 Nov 26 23:34	0°る	1 0123	evening rise	16433 Nov 19 01:07	0°る	
evening rise	16432 Nov 28 10:37	3°る08'07		evening max el	16433 Dec 01 17:46	18° る 45'01	20°48'42
2 , ching 1150	16432 Dec 12 23:37	0° ≈		desc. node	16433 Dec 03 13:46	18 84501 20°る25'27	20 10 72
desc. node	16432 Dec 16 16:46	0 ∞ 4°≈55'15		retrograde	16433 Dec 13 03:28	20 3 2327 24° 3 24'12	
evening max el	16432 Dec 19 23:30	8°≈29'25	22°22'52	evening set	16433 Dec 15 16:29	24°පි08'36	
retrograde	16433 Jan 01 17:40	3 ∞2923 14°≈47'54	22 22 32	inferior conj	16433 Dec 24 10:59	24 308 30 20° る 16'49	_5°3/1'53
evening set	16433 Jan 05 10:07	14°≈18'02		minimum elong	16433 Dec 24 02:58	20° ろ 28'19	
inferior conj	16433 Jan 13 20:12	10°≈25'57	-6°02'18	min. Earth dist.	16433 Dec 25 12:27	19° පි 40'16	0.54479 AU
minimum elong	16433 Jan 13 20:39	10 ≈25 37 10°≈25'19	6°01'46	morning rise	16434 Jan 01 13:22	19 3 4010	0.54479 AO
min. Earth dist.	16433 Jan 13 07:05	10 ≈ 23 19 10° ≈ 44'21	0.54487 AU	direct	16434 Jan 05 21:17	16 ප 2211	
morning rise	16433 Jan 22 08:13	6°≈38'26	0.5-10/ AU	morning max el	16434 Jan 19 03:23	13 3 4148 22° る 11'00	23°16'18
direct	16433 Jan 25 13:47	6°≈14'58		morning max ci	16434 Jan 25 20:46	0°≈	23 10 10
	16433 Jan 25 13:47 16433 Feb 06 14:51	6°≈14'58 12°≈04'22	21°30'09	asc. node	16434 Jan 25 20:46 16434 Jan 28 03:08	0°≈ 3°≈14'43	
morning max el		12°≈04'22 16°≈02'56	41 30 09			3°≈14'43 29°≈40'53	
asc. node	16433 Feb 10 05:53			morning set	16434 Feb 11 08:12	29°≈40′53 0°) €	
	16433 Feb 19 07:29	0°) (14° ¥ 57!12			16434 Feb 11 11:47	∪ π	
morning set	16433 Feb 26 20:36	14° ¥ 57'13 0° Ƴ		avmani '	16424 E-L 10 05 25	1401/25/50	1924157
	16433 Mar 05 23:57	U. Y		superior conj	16434 Feb 18 05:37	14°) (35'50	1°24'56 1°24'57
gunarier con:	16/22 Mar 06 02:11	0° Ƴ 11'37	1900'00	minimum elong	16434 Feb 18 07:37		1°24'5 / 1.33155 AU
superior conj	16433 Mar 06 02:11			max. Earth dist.	16434 Feb 21 09:00	21° ¥ 17'08 0° Ƴ	1.33133 AU
minimum elong	16433 Mar 06 04:40	0° Y 24'35	1°08'42	avanir	16434 Feb 25 15:07		
max. Earth dist.	16433 Mar 10 15:19	9° Y 28'03	1.34872 AU	evening rise	16434 Feb 26 02:33	0° Ƴ 56'50	

desc. node	16434 Mar 01 14:08	7° Ƴ 40'32		superior conj	16435 Feb 02 13:48	29°≈10'30	1°34'37
dese. node	16434 Mar 14 16:33	0°8		minimum elong	16435 Feb 02 14:56	29°≈16'46	1°34'56
evening max el	16434 Apr 01 12:14	22° 8 43'04	27°20'55		16435 Feb 02 22:47	0°) €	
<i>8</i>	16434 Apr 12 19:31	0°II		max. Earth dist.	16435 Feb 04 10:06		1.31911 AU
retrograde	16434 Apr 15 03:39	0° Ⅱ 16'31		evening rise	16435 Feb 09 21:07	14°) 50'19	
Ü	16434 Apr 17 09:50	30°R ∀		desc. node	16435 Feb 16 10:53	27°) 42'01	
evening set	16434 Apr 21 19:54	27° 8 47'08			16435 Feb 17 16:59	$0^{\circ}\mathbf{Y}$	
min. Earth dist.	16434 Apr 25 15:54	24° 8 14'51	0.64779 AU		16435 Mar 09 15:24	0°8	
asc. node	16434 Apr 26 00:37	23° 8 51'35		evening max el	16435 Mar 14 23:45	5° 8 44'37	27°36'44
inferior conj	16434 Apr 28 04:10	21° 8 30'25	0°39'41	retrograde	16435 Mar 28 22:04	13° 8 14'49	
minimum elong	16434 Apr 28 03:05	21° 8 33'22	0°38'50	evening set	16435 Apr 04 17:17	10° 8 56'30	
morning rise	16434 May 04 12:17	16° 8 05'04		min. Earth dist.	16435 Apr 08 11:32	7° 8 51'01	0.62719 AU
direct	16434 May 07 04:22	15° 8 27'54		inferior conj	16435 Apr 11 10:16	4° 8 58'29	-0°28'18
morning max el	16434 May 13 11:43	18° 8 42'41	17°53'33	minimum elong	16435 Apr 11 11:12	4° 8 56'11	0°28'14
	16434 May 21 23:44	Π $^{\circ}0$		asc. node	16435 Apr 12 21:51	3° 8 33'06	
desc. node	16434 May 28 14:56	10° Ⅱ 46′33			16435 Apr 17 20:57	30° ₹Ƴ	
morning set	16434 May 31 00:23	14° ∏ 44′50		morning rise	16435 Apr 18 08:00	29° Y 49'07	
	16434 Jun 09 07:20	0 \circ \odot		direct	16435 Apr 20 16:03	29° Y 23'30	
					16435 Apr 23 10:19	0°B	
superior conj	16434 Jun 13 21:12	7° 5 20'39	-1°48'32	morning max el	16435 Apr 27 05:20	2° 8 42'44	17°46'13
minimum elong	16434 Jun 13 12:40	6°5546'42	1°48'25	morning set	16435 May 13 08:18	27° 8 19'30	
max. Earth dist.	16434 Jun 18 02:53	14° 5 02'28	1.45575 AU		16435 May 14 21:12	Π $^{\circ}0$	
	16434 Jun 28 09:57	0 \circ Ω		desc. node	16435 May 15 11:51	1° Ⅱ 03'40	
evening rise	16434 Jun 29 19:55	2° Ω 10′06					
greatest brilliancy	16434 Jul 14 07:17	23° Ω 53'46	-0.6m	superior conj	16435 May 25 10:02	17° Ⅱ 55'55	-1°14'53
	16434 Jul 18 14:58	0° m		minimum elong	16435 May 25 03:11	17° Ⅱ 27'30	1°14'36
asc. node	16434 Jul 22 23:51	5° TQ 39'09		max. Earth dist.	16435 May 31 20:33	28° Ⅱ 24'39	1.44426 AU
evening max el	16434 Jul 26 03:09	9° m 07'06	19°48'36		16435 Jun 01 20:27	0 \circ \odot	
retrograde	16434 Aug 02 13:42	13° m 17'50		evening rise	16435 Jun 09 07:03	11° © 38'23	
evening set	16434 Aug 06 09:49	11° m 52'49			16435 Jun 21 12:43	$0^{\circ}\Omega$	
inferior conj	16434 Aug 11 17:26	5° m 55'01	2°57'38	evening max el	16435 Jul 09 03:13	23° Ω 02'14	20°54'06
minimum elong	16434 Aug 11 18:44	5° m 50'38	2°57'10	asc. node	16435 Jul 09 20:41	23° Ω 44'36	
min. Earth dist.	16434 Aug 12 19:15	4° m/28'19	0.67933 AU	retrograde	16435 Jul 17 12:40	27° Ω 51'43	
	16434 Aug 16 13:44	30°RΩ		evening set	16435 Jul 21 19:43	26° Ω 08'46	
morning rise	16434 Aug 17 03:10	29° Ω 28'52		inferior conj	16435 Jul 27 01:15	19° Ω 59'53	3°07'22
direct	16434 Aug 22 20:26	26° Ω 59'34		minimum elong	16435 Jul 27 01:38	19° Ω 58'33	3°06'54
desc. node	16434 Aug 24 13:15	27° Ω 11'06		min. Earth dist.	16435 Jul 27 13:30	19° Ω 17'30	0.68794 AU
	16434 Aug 30 02:20	0° m/y		morning rise	16435 Aug 01 07:17	13° Ω 38'16	
morning max el	16434 Sep 03 16:16	4° m) 04'25	24°54'28	direct	16435 Aug 06 12:49	11° Ω 22'03	
	16434 Sep 23 14:33	0° ⊽		desc. node	16435 Aug 11 10:34	12° Ω 57'53	22025150
morning set	16434 Oct 09 09:59	25° Ω 46'09		morning max el	16435 Aug 17 03:22	17° Ω 40'58	23°25'59
TO ALLEY	16434 Oct 11 18:44	0°M	1.27051 411		16435 Aug 27 10:15	0° my	
max. Earth dist.	16434 Oct 12 22:25	2°M06'08	1.37051 AU	. ,	16435 Sep 16 15:47	0° ჲ 6° ჲ 53'29	
asc. node	16434 Oct 19 00:52	13°M39'01		morning set	16435 Sep 20 20:20		1 20469 ATT
	16424 0-4 10 10:00	1.50 m 00145	0907125	max. Earth dist.	16435 Sep 24 21:13	13° ≏ 46'16	1.39468 AU
superior conj	16434 Oct 19 18:00 16434 Oct 19 17:34	15°M02'45 15°M00'38	0°06'25 0°06'44	aumorior coni	16435 Oct 02 15:15	27° £ 41'57	0020124
minimum elong behind sun begin	16434 Oct 19 11:34	14°M31'15	0 00 44	superior conj minimum elong	16435 Oct 02 13:13	27° £ 41 37 27° £ 51'48	
behind sun begin	16434 Oct 19 11.34 16434 Oct 19 23:34	15°M30'06		minimum ciong	16435 Oct 02 17.22 16435 Oct 03 20:49	0°M	0 4131
belling sun end	16434 Oct 27 04:58	0° ⊼		asc. node	16435 Oct 05 21:38	3°M50'42	
evening rise	16434 Oct 28 00:09	0 x. 1°x ⁷ 37'01		evening rise	16435 Oct 03 21.38 16435 Oct 11 22:05	15°M27'11	
evening max el	16434 Nov 14 02:23	29°× 7 47'33	19°34'19	evening rise	16435 Oct 19 17:18	0° ₹	
evening max er	16434 Nov 14 07:24	0°る	1, 3, 1,	evening max el	16435 Oct 28 00:30	11° ₹ 39'20	18°42'15
desc. node	16434 Nov 20 10:51	4° る 05'29		retrograde	16435 Nov 05 07:30	15° ₹ 51'05	10 12 13
retrograde	16434 Nov 23 20:42	4°る40'30		evening set	16435 Nov 07 05:35	15° х 31°03	
evening set	16434 Nov 25 20:07	4° る 29'25		desc. node	16435 Nov 07 08:01	15° ₹ 37'02	
inferior conj	16434 Dec 04 11:36	0° る 25'16	-4°15'39	inferior conj	16435 Nov 15 07:37	11° 🗷 13'56	-2°33'38
minimum elong	16434 Dec 04 01:51	0° ろ 40'46		minimum elong	16435 Nov 15 01:24	11° ₹ 25'25	
	16434 Dec 05 03:24	30°R. ✓		min. Earth dist.	16435 Nov 18 09:40	8° ₹ 57'39	0.57071 AU
min. Earth dist.	16434 Dec 06 20:25	28° 🗷 54'59	0.55402 AU	morning rise	16435 Nov 22 18:07	6° х 18′25	
morning rise	16434 Dec 12 05:47	26° ₹ 05'28		direct	16435 Nov 28 19:45	4° х 48'33	
direct	16434 Dec 17 13:47	25°×01'49		morning max el	16435 Dec 13 00:30	12° ₹ 11'26	26°37'55
	16434 Dec 29 04:56	0°る			16435 Dec 26 21:36	0°る	
morning max el	16434 Dec 31 11:39		25°05'17	asc. node	16436 Jan 01 21:30	00 10° る 10'45	
asc. node	16435 Jan 15 00:20	21°る22'14	-	morning set	16436 Jan 11 06:26	28° ප 52'34	
	16435 Jan 19 19:28	0°≈		5	16436 Jan 11 18:56	0°≈	
morning set	16435 Jan 26 20:06	14° ≈ 21'10			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
<i>3</i> ·	= ==						

	16426 1 10 00 24	120 - 40150	1020112		16427 1 01 11 01	200720015	1026117
superior conj	16436 Jan 18 00:34	13°≈48′50	1°38'12	minimum elong	16437 Jan 01 11:01	28°る20'15	1°36'17
minimum elong	16436 Jan 18 00:39	13°≈49'21	1°38'42	max. Earth dist.	16437 Jan 01 00:02	27° る 18'43	1.30972 AU
max. Earth dist.	16436 Jan 18 16:20	15°≈16'57	1.31176 AU		16437 Jan 02 04:49	0° ≈	
evening rise	16436 Jan 24 22:48	28°≈59'30		evening rise	16437 Jan 08 05:24	13° ≈ 19′03	
	16436 Jan 25 10:17	0° ∀			16437 Jan 16 12:10	0° ∀	
desc. node	16436 Feb 03 07:38	17° ∺ 22'18		desc. node	16437 Jan 20 04:25	6° ¥ 33'21	
	16436 Feb 10 21:51	0 ° Υ		evening max el	16437 Feb 06 06:42	29°) 32′04	26°27'05
evening max el	16436 Feb 25 06:52	18° Y 04′20	27°19'30		16437 Feb 06 18:38	0° Υ	
retrograde	16436 Mar 10 07:33	25° Y 25′23		retrograde	16437 Feb 20 06:39	6° Ƴ 41'36	
evening set	16436 Mar 17 00:28	23° Y 25'04		evening set	16437 Feb 26 14:09	5° ℃ 05'07	
min. Earth dist.	16436 Mar 20 21:00	20° Ƴ 39'02	0.60476 AU	min. Earth dist.	16437 Mar 02 20:06	2° Y 27'27	0.58243 AU
inferior conj	16436 Mar 24 02:00	17° Ƴ 54'24	-1°49'58	inferior conj	16437 Mar 05 23:33	0° Ƴ 07'43	-3°20'55
minimum elong	16436 Mar 24 06:05	17° Ƴ 45'37	1°48'29	minimum elong	16437 Mar 06 07:16	29° 升 53′23	3°18'06
asc. node	16436 Mar 29 19:08	13° Ƴ 46'45			16437 Mar 06 03:42	30° Ŗ ₩	
morning rise	16436 Mar 31 15:10	13° Y 04′00		morning rise	16437 Mar 14 03:49	25° ∺ 38'53	
direct	16436 Apr 02 17:01	12° Ƴ 46′28		direct	16437 Mar 16 02:41	25°) €25'53	
morning max el	16436 Apr 09 20:59	16° Y 21′26	17°57'17	asc. node	16437 Mar 16 16:27	25°) €27'03	
	16436 Apr 19 11:03	0° ႘		morning max el	16437 Mar 24 06:54	29° ∺ 27'58	18°28'04
morning set	16436 Apr 25 11:05	10° 8 46'11		C	16437 Mar 24 19:35	0° Y	
desc. node	16436 May 01 08:43	21° 8 29'56		morning set	16437 Apr 09 03:16	24° Y ′48'04	
		•		. 8	16437 Apr 11 20:23	0°B	
superior conj	16436 May 05 22:23	29° 8 35'21	-0°37'06		r		
minimum elong	16436 May 05 19:10	29° 8 21'21	0°37'07	superior conj	16437 Apr 18 07:44	12° 8 11'05	-0°00'48
minimum ciong	16436 May 06 04:02	0°II	0 37 07	minimum elong	16437 Apr 18 07:39	12° 8 10'42	0°01'09
max. Earth dist.	16436 May 13 10:27	12° Ⅱ 18'40	1.42690 AU	behind sun begin	16437 Apr 18 00:29	11° 8 37'43	0 01 0)
evening rise	16436 May 19 06:23	21° Ⅱ 43'54	1.420)0710	behind sun end	16437 Apr 18 14:48	12° 8 43'36	
evening rise	16436 May 24 13:50	0°95		desc. node	16437 Apr 18 05:30	12° 8 00'47	
	16436 Jun 14 18:44	0°Ω		max. Earth dist.		25° 8 30'56	1.40554 AU
avanina may al	16436 Jun 20 21:48	6° Ω 57'24	22°10'01	max. Earth dist.	16437 Apr 25 19:24	25 O 30 30 0	1.40554 AU
evening max el			22 1001		16437 Apr 28 10:43		
asc. node	16436 Jun 25 17:35	10° £ 56′52		evening rise	16437 Apr 30 01:49	2° Ⅱ 42'59	
retrograde	16436 Jun 30 10:36	12° Ω 31'26			16437 May 17 20:26	0°95	22021110
evening set	16436 Jul 05 05:04	10° Ω 31'33		evening max el	16437 Jun 03 12:36	20°S52'07	23°31'18
inferior conj	16436 Jul 10 11:03	4°Ω12'58	3°06'06	asc. node	16437 Jun 12 14:34	26° © 58'27	
minimum elong	16436 Jul 10 10:30	4°Ω14'56	3°05'30	retrograde	16437 Jun 14 06:06	27° © 10'00	
min. Earth dist.	16436 Jul 10 10:01	4° Ω 16′36	0.69165 AU	evening set	16437 Jun 19 12:12	24° © 55'35	
	16436 Jul 13 15:51	30° ₹ 5		inferior conj	16437 Jun 24 20:52	18° © 29'27	2°54'22
morning rise	16436 Jul 15 15:45	27° © 58'14		minimum elong	16437 Jun 24 19:28	18° © 34'16	2°53'32
direct	16436 Jul 20 09:05	25° © 59'10		min. Earth dist.	16437 Jun 24 06:45	19° © 17'58	0.69038 AU
desc. node	16436 Jul 28 07:50	0° Ω 07'10		morning rise	16437 Jun 30 02:43	12° © 23'00	
	16436 Jul 28 04:41	0 $^{\circ}\Omega$		direct	16437 Jul 04 07:58	10° © 43'10	
morning max el	16436 Jul 29 17:03	1° Ω 26'42	21°58'24	morning max el	16437 Jul 12 11:57	15° 5 22'09	20°38'40
	16436 Aug 20 06:20	O° Mp		desc. node	16437 Jul 15 05:02	18° © 17'20	
morning set	16436 Aug 31 07:16	17° Mp 02'01			16437 Jul 24 04:31	$0^{\circ}\Omega$	
max. Earth dist.	16436 Sep 06 00:19	26°Mp 19'35	1.41807 AU	morning set	16437 Aug 10 20:49	26° Ω 17'47	
	16436 Sep 08 05:02	0∘ ⊽			16437 Aug 13 06:01	0° m y	
				max. Earth dist.	16437 Aug 19 09:32	9° m 43'54	1.43791 AU
superior conj	16436 Sep 13 18:19	9° £ 33'16	-1°05'41				
minimum elong	16436 Sep 13 23:43	9° £ 56'57	1°04'49	superior conj	16437 Aug 25 23:06	20° m 27'33	-1°40'20
asc. node	16436 Sep 21 18:24	23° ≏ 58'22		minimum elong	16437 Aug 26 06:56	21° mp 00'08	1°39'40
evening rise	16436 Sep 24 09:45	28° ♀ 50'29			16437 Aug 31 14:39	0∘ ত	
C	16436 Sep 25 00:48	0° M		evening rise	16437 Sep 07 06:29	11° ≏ 34'39	
evening max el	16436 Oct 10 08:19	24°M13'43	18°11'41	asc. node	16437 Sep 08 15:07	13° ≏ 57'42	
retrograde	16436 Oct 17 13:43	27°M55'34			16437 Sep 18 04:15	0° M	
evening set	16436 Oct 19 16:41	27°M36'56		evening max el	16437 Sep 23 21:35	7° M 20'41	18°01'05
desc. node	16436 Oct 24 05:13	25°M10'26		retrograde	16437 Sep 30 11:48	10°M45'34	
inferior conj	16436 Oct 27 01:26	22°M50'53	-0°54'50	evening set	16437 Oct 02 22:17	10°M17'09	
minimum elong	16436 Oct 26 23:27	22°M55'11	0°53'33	inferior conj	16437 Oct 09 14:38	5°M11'36	0°27'51
min. Earth dist.	16436 Oct 30 07:15	20°M03'50	0.59201 AU	minimum elong	16437 Oct 09 15:29	5°M09'30	0°27'50
morning rise	16436 Nov 03 02:50	17°M19'49	0.57201 AU	desc. node	16437 Oct 11 02:28	3°M42'10	3 21 30
direct	16436 Nov 09 15:06	17 IIC1949 15°M23'59		min. Earth dist.	16437 Oct 11 02.28	2°M13'29	0.61496 AU
morning max el	16436 Nov 23 21:50	23°M06'02	27°38'15	mm. Bartii uist.	16437 Oct 12 14.49 16437 Oct 15 04:07	2 IIL13 29 30°R Ω	0.01470 AU
morning max ci	16436 Nov 30 02:21	23 IIC00 02 0° √ 7	21 30 13	morning rise	16437 Oct 15 04.07	30 K== 29° £ 12'58	
aso nodo		0° x ¹ 29° x ¹29'27		direct	16437 Oct 16 05:51 16437 Oct 22 22:19	29° 2 12'38 26° 2 55'17	
asc. node	16436 Dec 18 18:37			uncei			
morning act	16436 Dec 19 01:02	0°る		morning me1	16437 Oct 31 08:37	0°M	27050117
morning set	16436 Dec 25 13:25	13° る 10'33		morning max el	16437 Nov 06 02:34	4°M50'32	4/ 391/
	16427 1 01 11 50	200725	1025142	1	16437 Nov 24 23:00	0° √ ¹	
superior conj	16437 Jan 01 11:58	28° る 25'32	1~35'43	asc. node	16437 Dec 05 15:40	19° ∡ *09'58	

morning set	16437 Dec 09 14:59	27° ∡ 10′17		asc. node	16438 Nov 22 12:36	9° ∡ 05'31	
	16437 Dec 10 23:26	0°₹		morning set	16438 Nov 23 08:43	10° ∡ ¹45'43	
max. Earth dist.	16437 Dec 15 05:20	9° ට 10'00	1.31325 AU	max. Earth dist.	16438 Nov 28 04:22	20° ∡ ¹42'34	1.32259 AU
superior conj	16437 Dec 16 22:09	12° る 55'38	1°27'11	superior conj	16438 Dec 01 05:07	27° ∡ 13'30	1°12'29
minimum elong	16437 Dec 16 20:21	12° る 45'37	1°27'40	minimum elong	16438 Dec 01 02:48	27° х 00′53	1°12'48
evening rise	16437 Dec 23 14:59	27° る 44'30			16438 Dec 02 11:40	0°ರ	
	16437 Dec 24 16:09	0° ≈		evening rise	16438 Dec 08 01:42	12° る 11'12	
desc. node	16438 Jan 07 01:15	25° ≈ 04'28			16438 Dec 16 22:52	0° ≈	
	16438 Jan 10 08:43	0° ∀		desc. node	16438 Dec 24 22:09	12° ≈ 40'40	
evening max el	16438 Jan 18 22:05	10°) 08′01	25°03'53	evening max el	16438 Dec 31 07:51	20° ≈ 08′20	23°22'26
retrograde	16438 Feb 01 17:49	17° ₩ 03'35		retrograde	16439 Jan 13 15:07	26° ≈ 43'03	
evening set	16438 Feb 07 06:54	15°) 54'40		evening set	16439 Jan 18 01:07	26°≈00'52	
min. Earth dist.	16438 Feb 12 10:27	13° ¥ 09'53	0.56283 AU	min. Earth dist.	16439 Jan 24 18:43	22° ≈ 50'35	0.54908 AU
inferior conj	16438 Feb 15 00:08	11°) € 30'32	-4°48'36	inferior conj	16439 Jan 26 04:28	22° ≈ 01'45	-5°49'48
minimum elong	16438 Feb 15 09:36	11° ¥ 15'15	4°45'51	minimum elong	16439 Jan 26 10:00	21° ≈ 53'44	5°48'44
morning rise	16438 Feb 23 14:56	7°) €22'47		morning rise	16439 Feb 03 20:15	18° ≈ 09'33	
direct	16438 Feb 25 17:07	7°) 10′25		direct	16439 Feb 06 12:38	17°≈52'12	
asc. node	16438 Mar 03 13:46	8°) 54'39		morning max el	16439 Feb 17 16:48	23°≈16'55	20°36'24
morning max el	16438 Mar 07 06:53	11°) 50'33	19°20'34	asc. node	16439 Feb 18 11:03	24°≈02'32	20 3021
morning max cr	16438 Mar 19 11:10	0°Υ	17 20 54	ase. Houe	16439 Feb 23 07:34	0° ∀	
morning set	16438 Mar 24 04:37	9° Υ 13'03		morning set	16439 Mar 08 11:51	23° ¥ 50'30	
morning set	10436 Widi 24 04.37	9 1 13 03		morning set	16439 Mar 11 11:07	23 γ (3030	
superior conj	16438 Apr 01 09:51	25° Ƴ 31'26	0°31'01		10439 Mai 11 11.07	0 1	
	*	25° Υ 40'06	0°30'29	aumariar aani	16420 Mar 16 00:25	9° Υ 23'28	0°56'56
minimum elong	16438 Apr 01 11:38		0 30 29	superior conj	16439 Mar 16 00:25	9° Y 36'08	
1 1	16438 Apr 03 17:48	0°8		minimum elong	16439 Mar 16 02:55	9°γ36'08 20° Υ '00'08	0°56'29
desc. node	16438 Apr 05 02:14	2° 8 32'54	1 20256 ATT	max. Earth dist.	16439 Mar 21 08:53		1.36035 AU
max. Earth dist.	16438 Apr 08 01:21	8° 8 00'38	1.38256 AU	desc. node	16439 Mar 22 22:57	23° Y 01'41	
evening rise	16438 Apr 11 18:23	14° 8 36'30		evening rise	16439 Mar 25 05:18	27° Y 14'53	
	16438 Apr 21 01:07	0°II			16439 Mar 26 17:36	0° 8	
	16438 May 12 15:16	0°9			16439 Apr 14 10:11	0°II	
evening max el	16438 May 17 02:02	4°9547'21	24°51'27	evening max el	16439 Apr 29 15:40	18° Ⅲ 39'46	26°03'16
retrograde	16438 May 28 21:58	11° © 41'16		retrograde	16439 May 12 09:02	25° Ⅱ 57'47	
asc. node	16438 May 30 11:35	11° © 31'01		asc. node	16439 May 17 08:41	24° Ⅱ 19'37	
evening set	16438 Jun 03 15:25	9° © 15'55		evening set	16439 May 18 13:00	23° Ⅱ 26′16	
min. Earth dist.	16438 Jun 08 01:39	4° © 15'28	0.68428 AU	min. Earth dist.	16439 May 22 16:33	19° Ⅱ 01'56	0.67346 AU
inferior conj	16438 Jun 09 04:47	2° © 45'32	2°32'02	inferior conj	16439 May 24 08:45	16° Ⅱ 56'19	1°58'25
minimum elong	16438 Jun 09 02:47	2° © 52'10	2°30'57	minimum elong	16439 May 24 06:34	17° Ⅱ 03'10	1°57'11
	16438 Jun 11 08:27	30°RⅡ		morning rise	16439 May 30 00:51	11° Ⅱ 10′07	
morning rise	16438 Jun 14 14:23	26° Ⅱ 48'31		direct	16439 Jun 02 08:00	10° Ⅱ 08'12	
direct	16438 Jun 18 08:11	25° Ⅱ 28'10		morning max el	16439 Jun 08 22:32	13° Ⅱ 40′06	18°40'17
morning max el	16438 Jun 25 13:46	29° Ⅱ 27'35	19°31'39	desc. node	16439 Jun 18 23:15	26° Ⅱ 40′52	
	16438 Jun 26 02:42	0ංම			16439 Jun 21 04:11	0ංම	
desc. node	16438 Jul 02 02:11	7°912'34		morning set	16439 Jun 30 15:52	14° 5 41'48	
greatest brilliancy	16438 Jul 08 07:24	15° © 59'54	-0.6m		16439 Jul 10 11:24	$0^{\circ}\Omega$	
	16438 Jul 17 15:13	$0^{\circ}\Omega$		max. Earth dist.	16439 Jul 15 19:28	8° Ω 18′52	1.45949 AU
morning set	16438 Jul 21 01:03	5° Ω 12'56					
max. Earth dist.	16438 Aug 02 00:24	23° Ω 48′09	1.45216 AU	superior conj	16439 Jul 16 17:15	9° Ω 43'49	-2°14'22
	16438 Aug 05 22:23	0° m p		minimum elong	16439 Jul 16 16:48	9° Ω 42′03	2°14'53
					16439 Jul 29 14:43	0° m)	
superior conj	16438 Aug 06 04:39	0° m 24'57	-2°05'42	evening rise	16439 Aug 01 06:52	4° Mp 14'54	
minimum elong	16438 Aug 06 10:59	0° m 50'13	2°05'44	greatest brilliancy	16439 Aug 07 20:17	14° m 40'34	-0.9m
evening rise	16438 Aug 20 06:59	23° Mp 26'02		asc. node	16439 Aug 13 08:32	23° m 13'05	
	16438 Aug 24 05:33	0∘ ⊽			16439 Aug 18 03:07	0∘ ত	
asc. node	16438 Aug 26 11:49	3° £ 44'21		evening max el	16439 Aug 22 02:02	4° ≙ 36'07	18°34'44
evening max el	16438 Sep 07 12:34	20° £ 50'57	18°09'05	retrograde	16439 Aug 28 14:10	8° ഫ 06'13	
retrograde	16438 Sep 13 21:15	24° ≙ 11'52		evening set	16439 Aug 31 18:35	7° ≏ 08'45	
evening set	16438 Sep 16 16:23	23° £ 30'14		inferior conj	16439 Sep 06 11:22	1° £ 31'11	2°16'42
inferior conj	16438 Sep 22 19:15	18° ♀ 07'41	1°31'16	minimum elong	16439 Sep 06 13:39	1° £ 24'15	
minimum elong	16438 Sep 22 21:21	18° ≏ 01'47			16439 Sep 07 17:10	30°R, My	
min. Earth dist.	16438 Sep 25 08:24	15° ≏ 18'06		min. Earth dist.	16439 Sep 08 11:04	29° Mp 06'00	0.65661 AU
desc. node	16438 Sep 27 23:44	13 = 18 00 12° ⊆ 42'11	3.03 / 12 / 10	morning rise	16439 Sep 12 07:31	25° My 06'26	3.02001 AU
morning rise	16438 Sep 29 00:22	12 = 42 11 11° £ 51'36		desc. node	16439 Sep 14 21:02	23° m) 24'17	
direct	16438 Oct 05 15:21	9° £ 19'44		direct	16439 Sep 18 16:22	23° m) 29'24	
morning max el	16438 Oct 03 13.21 16438 Oct 19 11:50	9 ≗ 1944 17° ≗ 18'09	27°42'18	uncet	16439 Sep 18 16.22 16439 Oct 01 15:50	ე∘ <u>ი</u>	
morning max ci	16438 Oct 30 02:40	0°ML	21 72 10	morning may al		0° 쇼 18'02	26052147
		0°11に 0° ス 7		morning max el	16439 Oct 01 23:02	0°1218'02 0°M	20 334/
	16438 Nov 17 18:42	υ Χ .			16439 Oct 24 02:06	U IIIG	

morning set	16439 Nov 06 15:50	23°M51'00		morning max el	16440 Sep 13 10:29	13° m 38'36	25°42'17
asc. node	16439 Nov 09 09:29	29°M11'10		morning max cr	16440 Sep 26 17:59	0° ⊡	23 42 17
use. Houe	16439 Nov 09 19:18	0° √			16440 Oct 15 20:13	0° m	
max. Earth dist.	16439 Nov 10 18:30		1.33760 AU	morning set	16440 Oct 19 08:47	6°M17'35	
				max. Earth dist.	16440 Oct 22 23:30	13°M01'00	1.35751 AU
superior conj	16439 Nov 15 06:38	11° ∡ 13'46	0°51'33	asc. node	16440 Oct 26 06:19	19°M21'59	
minimum elong	16439 Nov 15 04:22	11° ∡ *01′50	0°51'45				
evening rise	16439 Nov 22 11:47	26° ₹ ³35′24		superior conj	16440 Oct 28 23:55	24°M48'47	0°24'31
	16439 Nov 24 02:43	ರ°0		minimum elong	16440 Oct 28 22:31	24°M41'45	0°24'44
desc. node	16439 Dec 11 19:06	29° る 03'26			16440 Oct 31 13:02	0° ∡ ¹	
	16439 Dec 12 17:09	0° ≈		evening rise	16440 Nov 05 19:08	10° ∡ ′51′17	
evening max el	16439 Dec 12 20:18	0° ≈ 07'46	21°40'51		16440 Nov 15 20:30	0°ಕ	
retrograde	16439 Dec 25 01:44	6°≈10'14		evening max el	16440 Nov 23 20:16	10°₹40'40	20°14'14
evening set	16439 Dec 28 05:32	5°≈47'42	5050115	desc. node	16440 Nov 27 16:08	13° 3 49'14	
inferior conj	16440 Jan 05 20:14	1°≈57'57		retrograde	16440 Dec 04 13:07	16°る00'24 15°る47'34	
minimum elong min. Earth dist.	16440 Jan 05 16:35 16440 Jan 05 23:52	2°≈03'03 1°≈52'52	5°57'25 0.54372 AU	evening set inferior conj	16440 Dec 06 18:43 16440 Dec 15 13:28	13° る 4/'34	5006102
iiiii. Eartii dist.	16440 Jan 09 11:48	1 ≈32 32 30°Rる	0.34372 AU	minimum elong	16440 Dec 15 03:46		5°03'04
morning rise	16440 Jan 14 04:13	30 KO 28° ろ 09'44		min. Earth dist.	16440 Dec 17 05:32	12 3 03 31	0.54770 AU
direct	16440 Jan 17 21:09	27°る39'46		morning rise	16440 Dec 23 12:10	7°る48'26	0.54770 AC
uncet	16440 Jan 25 15:29	0°≈		direct	16440 Dec 28 07:01	6° る 58'55	
morning max el	16440 Jan 30 11:42	3° ≈ 46'58	22°13'48	morning max el	16441 Jan 10 21:06	13° る 41'15	24°03'34
asc. node	16440 Feb 05 08:19	10° ≈ 34'13		asc. node	16441 Jan 22 05:33	28° る 11'10	
	16440 Feb 16 18:51	0° ∀			16441 Jan 23 08:28	0° ≈	
morning set	16440 Feb 20 22:29	8° ¥ 33'30		morning set	16441 Feb 04 10:27	23° ≈ 16′17	
					16441 Feb 07 12:48	0° ∀	
superior conj	16440 Feb 27 24:00	23°) 37′51	1°16'32				
minimum elong	16440 Feb 28 02:21		1°16'22	superior conj	16441 Feb 11 05:44	8° ∺ 06'58	
	16440 Mar 02 01:10	0° Υ		minimum elong	16441 Feb 11 07:24	8° ¥ 16′03	
max. Earth dist.	16440 Mar 02 22:29	1° Υ 49'15	1.34095 AU	max. Earth dist.	16441 Feb 13 19:44	13°) (41'57	1.32565 AU
evening rise	16440 Mar 07 07:04	10° Y 28'31		evening rise	16441 Feb 18 20:19	24°)(09'12	
desc. node	16440 Mar 08 19:40	13° Y 23'22 0° と		desc. node	16441 Feb 21 19:27 16441 Feb 23 16:24	0° Υ 3° Υ 33'40	
	16440 Mar 18 04:58 16440 Apr 08 22:07	0°II		desc. node	16441 Mar 11 18:42	0° 8	
evening max el	16440 Apr 11 05:32	0 П 2°П21'19	26°59'02	evening max el	16441 Mar 24 18:20	15° 8 40'37	27°31'23
retrograde	16440 Apr 24 14:18	9° П 51'24	20 37 02	retrograde	16441 Apr 07 12:56	23° 8 13'15	27 31 23
evening set	16440 May 01 03:00	7° Ⅱ 19'24		evening set	16441 Apr 14 07:12	20° 8 47'30	
asc. node	16440 May 03 05:50	5° Ⅲ 25′21		min. Earth dist.	16441 Apr 18 02:03	17° 8 27'40	0.63935 AU
min. Earth dist.	16440 May 05 01:18	3° Ⅱ 29′13	0.65828 AU	asc. node	16441 Apr 20 03:02	15° 8 20'28	
inferior conj	16440 May 07 06:28	0° Ⅲ 56′01	1°12'22	inferior conj	16441 Apr 20 19:12	14° 8 38'00	0°12'38
minimum elong	16440 May 07 04:44	1° Ⅲ 01′02	1°11'14	minimum elong	16441 Apr 20 18:50	14° 8 38'57	0°12'06
	16440 May 08 02:00	30° ₹ 8		transit middle	16441 Apr 20 18:50	14° 8 38'57	0°12'06
morning rise	16440 May 13 07:54	25° 8 22'25		transit begin	16441 Apr 20 16:47	14° 8 44'19	
direct	16440 May 16 05:18	24° 8 36'54		transit end	16441 Apr 20 20:52	14° 8 33'36	
morning max el	16440 May 22 12:47	27° 8 54'07	18°05'42	morning rise	16441 Apr 27 08:49	9°819'19	
11-	16440 May 24 11:50	0°П 10°П 22110		direct	16441 Apr 29 21:25	8° 8 47'23	17949122
desc. node morning set	16440 Jun 04 20:17 16440 Jun 10 07:24	16° Ⅲ 33'16 25° Ⅲ 22'22		morning max el	16441 May 06 06:07 16441 May 18 17:43	12° 8 02'19 0° Ⅱ	17°48'22
morning set	16440 Jun 13 04:10	0°95		desc. node	16441 May 22 17:15	6°∏43'04	
	15 OT.10	· •		morning set	16441 May 23 01:49	7° П 19'19	
superior conj	16440 Jun 25 03:39	19° © 02'37	-2°02'57	morning sec	101111111111111111111111111111111111111	, 21, 1,	
minimum elong	16440 Jun 24 20:28		2°03'10	superior conj	16441 Jun 05 04:07	29° Ⅱ 03'47	-1°35'14
max. Earth dist.	16440 Jun 27 16:22	23°900'14	1.45928 AU	minimum elong	16441 Jun 04 19:50	28° Ⅱ 30′16	1°34'59
	16440 Jul 02 04:14	$0^{\circ}\Omega$			16441 Jun 05 18:04	0 \circ \odot	
evening rise	16440 Jul 11 07:05	14° Ω 06′18		max. Earth dist.	16441 Jun 10 12:04	7° 5 34'41	1.45164 AU
	16440 Jul 21 16:23	0° m)		evening rise	16441 Jun 20 18:13	23° © 30'32	
greatest brilliancy	16440 Jul 23 11:23	2° Mp 40'59	-0.7m		16441 Jun 25 00:42	0 $^{\circ}\Omega$	
asc. node	16440 Jul 30 05:18	12° m 16'43			16441 Jul 16 09:24	0° m)	
evening max el	16440 Aug 04 11:20	18° m 28'21	19°17'06	asc. node	16441 Jul 17 02:07	0° m 46'49	2001 11:5
retrograde	16440 Aug 11 11:21	22° Tp 20'41		evening max el	16441 Jul 18 14:51	2° Mp 23'08	20°14'49
evening set	16440 Aug 15 01:38	21° Mp 05'46	2946126	retrograde	16441 Jul 26 10:25	6° Mp 49'30	
inferior conj	16440 Aug 20 11:42	15° Mp 14'49	2°46'36	evening set	16441 Jul 30 11:07	5° Mp 16'40	
minimum elong min. Earth dist.	16440 Aug 20 13:28 16440 Aug 21 21:22	15° Mp 09'03 13° Mp 24'57	2°46'04 0.67231 AU	inferior conj	16441 Aug 04 03:54 16441 Aug 04 17:30	30°R Ω 29° Ω 13'41	3°03'11
morning rise	16440 Aug 26 00:38	8° Mp 47'50	0.07231 AU	minimum elong	16441 Aug 04 17.30	29° Ω 10'32	3°02'43
desc. node	16440 Aug 31 18:23	6° Mg 14'11		min. Earth dist.	16441 Aug 05 13:24	28° Ω 05'45	0.68359 AU
direct	16440 Sep 01 00:05	6° m) 13'57		morning rise	16441 Aug 10 01:23	22° Ω 49'04	5.55557 110
	r					55.251	

T' d	16441 A 15 12 20	200 025101		: E 4 E 4	16442 1 1 20 00 00	120 0 50141	0.60000 ATT
direct	16441 Aug 15 13:38	20° Ω 25'01		min. Earth dist.	16442 Jul 20 09:00	12° Ω 59'41	0.69008 AU
desc. node	16441 Aug 18 15:42	21°Ω03'00 27°Ω11'40	24017115	morning rise	16442 Jul 25 07:35	7° Ω 03'26 4° Ω 54'09	
morning max el	16441 Aug 26 21:39	0° m)	24-17-15	direct desc. node	16442 Jul 30 07:50	$7^{\circ}\Omega 27'16$	
	16441 Aug 29 12:43	0∘ ⊽			16442 Aug 05 12:59	10°Ω52'07	22040107
morning set	16441 Sep 20 08:38 16441 Oct 01 07:33	0 <u>≈</u> 17° ≏ 56'58		morning max el	16442 Aug 09 09:34 16442 Aug 24 14:08	0°m)	22 46 07
max. Earth dist.	16441 Oct 04 22:46	24° £ 20'09	1.38075 AU	morning set	16442 Sep 12 08:13	28° Mp 40'13	
max. Earth dist.	16441 Oct 08 01:34	0°M	1.36073 AO	morning set	16442 Sep 13 03:38	0° ⊽	
	10441 Oct 00 01.54	O III		max. Earth dist.	16442 Sep 16 22:24	° - 6° - 19'51	1.40486 AU
superior conj	16441 Oct 12 05:37	7°M50'52	-0°08'00	max. Earth dist.	10112 Sep 10 22.21	0 =1751	1.10100710
minimum elong	16441 Oct 12 06:08	7°M53'22		superior conj	16442 Sep 24 19:43	20° ₽ 11'01	-0°44'16
behind sun begin	16441 Oct 12 00:01	7°M24'03	0 0, 5.	minimum elong	16442 Sep 24 23:11	20° £ 26'47	
behind sun end	16441 Oct 12 12:15	8°M22'45		asc. node	16442 Sep 29 23:54	29° Ω 44'53	
asc. node	16441 Oct 13 03:08	9° M 34'24			16442 Sep 30 03:07	0°M	
evening rise	16441 Oct 20 21:23	24°M53'06		evening rise	16442 Oct 04 15:28	8°M33'12	
	16441 Oct 23 11:39	0° ∡ ¹			16442 Oct 17 00:18	0° ∡ ¹	
evening max el	16441 Nov 06 10:53	22° ₹ 03'51	19°09'19	evening max el	16442 Oct 20 13:44	4° ∡ 15'33	18°26'43
desc. node	16441 Nov 14 13:15	26° ₹ ³35'22		retrograde	16442 Oct 28 08:38	8° ∡ 12'57	
retrograde	16441 Nov 15 13:30	26° ₹ ³38'38		evening set	16442 Oct 30 08:14	7° ∡ ¹58'18	
evening set	16441 Nov 17 10:59	26° ₹ ¹27'33		desc. node	16442 Nov 01 10:24	7° ∡ 13′27	
inferior conj	16441 Nov 25 21:38	22° ∡ 15′06	-3°33'17	inferior conj	16442 Nov 07 03:05	3° ҂ 24'57	-1°50'16
minimum elong	16441 Nov 25 13:03	22° ₹ '29'38	3°29'37	minimum elong	16442 Nov 06 22:46	3° х ⁴33′29	1°47'58
min. Earth dist.	16441 Nov 28 15:30	20° ∡ ¹23'46	0.56034 AU	min. Earth dist.	16442 Nov 10 08:23	0° ∡ ¹52'57	0.57937 AU
morning rise	16441 Dec 03 12:35	17° ∡ ′40′22			16442 Nov 11 13:20	30°RM	
direct	16441 Dec 09 04:39	16° ∡ °25′56		morning rise	16442 Nov 14 09:52	28°M13'30	
morning max el	16441 Dec 23 06:44	23° ∡ ³36'30	25°47'57	direct	16442 Nov 20 16:56	26°M31'57	
	16441 Dec 29 01:23	0°ಕ			16442 Nov 30 02:30	0° ∡ ¹	
asc. node	16442 Jan 09 02:45	16° පි 37'19		morning max el	16442 Dec 04 23:08	4° ∡ *04'24	27°08'05
	16442 Jan 16 03:50	0° ≈			16442 Dec 23 20:21	0° ප	
morning set	16442 Jan 19 21:53	7° ≈ 53'13		asc. node	16442 Dec 26 23:54	5° る 39'57	
	16440 7 06 15 15	220 12111	100 (150	morning set	16443 Jan 04 07:02	22° る 19'45	
superior conj	16442 Jan 26 15:15	22°≈43'44			16443 Jan 07 19:19	0° ≈	
minimum elong	16442 Jan 26 15:57	22°≈47'38	1°37'18		16442 X 11 02 22	70 2212 0	1005150
max. Earth dist.	16442 Jan 27 23:17		1.31526 AU	superior conj	16443 Jan 11 02:33	7°≈22'30	1°37'53
	16442 Jan 29 22:25 16442 Feb 02 18:09	0° ∺ 8° ∺ 09'32		minimum elong max. Earth dist.	16443 Jan 11 02:11	7°≈20'31	1°38'26
evening rise desc. node	16442 Feb 02 18:09 16442 Feb 10 13:08	8° ★09'32 23° ¥26'41		evening rise	16443 Jan 11 06:25 16443 Jan 17 22:12	7°≈44'12 22°≈24'03	1.31017 AU
desc. node	16442 Feb 10 13:08 16442 Feb 14 05:51	23 π 2041 0° Υ		evening rise	16443 Jan 21 13:59	22 ≈ 24 03	
avaning may al	16442 Mar 07 04:02	28° Υ 24'41	27°33'41	desc. node	16443 Jan 28 09:54	12° ¥ 55'40	
evening max el	16442 Mar 08 21:43	0°8	27 33 41	desc. Hode	16443 Feb 08 08:54	12 γ (33 40	
retrograde	16442 Mar 21 03:53	5° 8 52'24		evening max el	16443 Feb 17 08:19	10° Υ 23'06	27°01'29
evening set	16442 Mar 27 22:58	3° 8 40'32		retrograde	16443 Mar 03 09:32	17° Υ 40'06	27 012)
min. Earth dist.	16442 Mar 31 17:21	0° 8 44'42	0.61770 AU	evening set	16443 Mar 09 23:08	15° Υ 49'26	
	16442 Apr 01 13:08	30°RƳ		min. Earth dist.	16443 Mar 13 22:33	13° Y 08'18	0.59505 AU
inferior conj	16442 Apr 03 19:37	27° Y ′53'05	-1°01'25	inferior conj	16443 Mar 17 04:03	10° Ƴ 32'01	-2°27'58
minimum elong	16442 Apr 03 21:46	27° Y ′48′06	1°00'47	minimum elong	16443 Mar 17 09:42	10° Y ′20′34	2°25'50
asc. node	16442 Apr 07 00:19	25° Y ′06'45		morning rise	16443 Mar 24 23:53	5° Υ 50'34	
morning rise	16442 Apr 10 23:49	22° Y ′51′50		asc. node	16443 Mar 24 21:35	5° Y ′52'02	
direct	16442 Apr 13 04:54	22° Y '30'11		direct	16443 Mar 26 23:45	5° Y 35'31	
morning max el	16442 Apr 19 23:24	25° Y ′54'41	17°48'42	morning max el	16443 Apr 03 13:06	9° Y 21'03	18°07'49
	16442 Apr 23 11:20	0°8			16443 Apr 16 23:41	0° 8	
morning set	16442 May 05 18:26	20° 8 17'37		morning set	16443 Apr 19 03:29	4° 8 00'32	
desc. node	16442 May 09 14:08	27° 8 04'14		desc. node	16443 Apr 26 10:58	17° 8 32'35	
	16442 May 11 06:08	Π °0					
				superior conj	16443 Apr 29 00:42	22° 8 10'36	
superior conj	16442 May 17 03:01	10° Ⅱ 06'33		minimum elong	16443 Apr 28 22:57	22° 8 02'47	0°21'27
minimum elong	16442 May 16 21:39	9° Ⅱ 43'53			16443 May 03 11:51	0°П	
max. Earth dist.	16442 May 24 03:51	21° Ⅱ 44'39	1.43742 AU	max. Earth dist.	16443 May 06 15:03	5° Ⅱ 19'21	1.41816 AU
	16442 May 29 08:11	0°95		evening rise	16443 May 11 16:13	13° Ⅱ 37'10	
evening rise	16442 May 31 08:52	3° © 10'07			16443 May 22 05:48	0°©	2204424
	16442 Jun 18 11:14	0°Ω	21025121	evening max el	16443 Jun 14 05:02	0° Ω 12'09	22°44'24
evening max el	16442 Jul 01 12:18	16°Ω17'32	21-25/21	000 m-J-	16443 Jun 14 00:11	0° Ω 5° Ω 15'11	
asc. node	16442 Jul 03 23:00 16442 Jul 10 09:15	18° Ω 31'16 21° Ω 26'16		asc. node	16443 Jun 20 19:56 16443 Jun 24 06:16	5°8 (15'11 6° Ω05'25	
retrograde evening set	16442 Jul 10 09:15 16442 Jul 14 21:01	$19^{\circ} \Omega 36'00$		retrograde evening set	16443 Jun 24 06:16 16443 Jun 29 05:35	3° Ω 59'16	
inferior conj	16442 Jul 14 21:01 16442 Jul 20 02:26	$13^{\circ}\Omega 22'36$	3°08'08	evening set	16443 Jul 02 18:49	30°RS	
minimum elong	16442 Jul 20 02:25	$13^{\circ} \Omega 22'41$		min. Earth dist.	16443 Jul 04 05:56	30 KS 27°S59'55	0.69169 AU
mmmum ciong	10772 Jul 20 02.23	1.06441	5 0131	mm. Barui uist.	10773 Jul 04 03.30	۵۱ در دردد	0.07107 AU

: <i>c</i> :	16442 I1 04 12:20	27° © 37'14	2902124	::	16444 Jun 17 21:41	11° © 53'59	2046112
inferior conj	16443 Jul 04 12:28			inferior conj			
minimum elong	16443 Jul 04 11:31	27°5540'30	3°01'43	minimum elong	16444 Jun 17 20:00	11°959'45	2°45'17
morning rise	16443 Jul 09 17:19	21° © 25'39		morning rise	16444 Jun 23 04:48	5° © 51'27	
direct	16443 Jul 14 05:30	19° © 34'23		direct	16444 Jun 27 05:12	4° © 19'44	
morning max el	16443 Jul 23 00:59	24° © 40'40	21°23'06	morning max el	16444 Jul 04 22:37	8° 5 40'06	20°08'27
desc. node	16443 Jul 23 10:13	25° 5 04'00		desc. node	16444 Jul 09 07:24	13° © 34'53	
	16443 Jul 27 18:47	$0^{\circ}\Omega$			16444 Jul 21 03:28	$0^{\circ}\Omega$	
	16443 Aug 17 23:11	0°mp		morning set	16444 Aug 01 16:45	17° Ω 25′02	
morning set	16443 Aug 23 09:13	8° m/23'38		•	16444 Aug 09 18:44	o∘ mp	
max. Earth dist.	16443 Aug 30 03:41	19° m) 14'13	1.42707 AU	max. Earth dist.	16444 Aug 11 15:59	-•	1.44476 AU
max. Earth dist.	16443 Sep 05 14:33	0∘ ⊽	1.12/0/110	max. Earth dist.	1011111ug 11 15.57	2 11/37 10	1.11170210
	10443 Sep 03 14.33	0 ==		aumorior coni	16444 Aug 17 00:20	12° m/08'42	1050141
	16442 0 06 12 44	10 0 20100	1021102	superior conj	16444 Aug 17 08:30		
superior conj	16443 Sep 06 13:44	1° △ 39'00		minimum elong	16444 Aug 17 16:22	12° m 40'48	1°52′16
minimum elong	16443 Sep 06 20:25		1°20'11		16444 Aug 28 01:01	0∘ ⊽	
asc. node	16443 Sep 16 20:38	19° ≏ 49'18		evening rise	16444 Aug 30 10:11	4° ჲ 04'39	
evening rise	16443 Sep 17 21:22	21° ≏ 41′03		asc. node	16444 Sep 02 17:21	9° ≙ 43'59	
	16443 Sep 22 12:30	0°M₊			16444 Sep 16 05:33	0° M	
evening max el	16443 Oct 04 00:28	17° M 05'30	18°04'52	evening max el	16444 Sep 16 14:57	0°M23'46	18°02'15
retrograde	16443 Oct 10 21:58	20°M38'05		retrograde	16444 Sep 23 01:31	3°M45'15	
evening set	16443 Oct 13 04:03	20° M ₁5'39		evening set	16444 Sep 25 15:40	3°M11'26	
desc. node	16443 Oct 19 07:37	16° ™ 11'00		<i>5</i>	16444 Sep 30 01:33	30°R <u>₽</u>	
inferior conj	16443 Oct 20 05:35	15°M21'09	-0°17'28	inferior conj	16444 Oct 02 01:51	27° £ 58'05	0°57'02
minimum elong	16443 Oct 20 05:00	15°M22'29	0°16'49	minimum elong	16444 Oct 02 03:24	27° ⊆ 54'01	0°56'43
Č	16443 Oct 23 09:58		0.60178 AU	2			0.62464 AU
min. Earth dist.		12°M26'56	0.001/8 AU	min. Earth dist.	16444 Oct 04 21:39	25° ♀ 01'47	0.02404 AU
morning rise	16443 Oct 27 02:44	9° ™ 37'31		desc. node	16444 Oct 05 04:52	24° ≙ 43'53	
direct	16443 Nov 02 17:49	7° ™ 31'27		morning rise	16444 Oct 08 12:43	21° ≏ 51′03	
morning max el	16443 Nov 16 23:38	15° ™ 19'34	27°51'59	direct	16444 Oct 15 05:11	19° ≏ 26'36	
	16443 Nov 28 22:49	0° ∡ ¹		morning max el	16444 Oct 29 06:38	27° ≏ 23'33	27°56'25
asc. node	16443 Dec 13 20:58	25° х 08′42			16444 Oct 31 18:23	0° M	
	16443 Dec 16 08:07	ರ∘ರ			16444 Nov 21 16:15	0° ∡ ¹	
morning set	16443 Dec 19 11:57	6° පි 30'16		asc. node	16444 Nov 29 17:59	14° ∡ 56′22	
max. Earth dist.	16443 Dec 25 13:31	19° る 42'17	1.31058 AU	morning set	16444 Dec 02 10:30	20° ∡ °20′12	
				Č	16444 Dec 07 00:40	0°₹	
superior conj	16443 Dec 26 13:40	21° る 57'01	1°32'52	max. Earth dist.	16444 Dec 07 16:47	1° る 27'14	1.31663 AU
minimum elong	16443 Dec 26 12:19	21° る 49'32	1°33'23	man. Bartir dist.	10111200 07 10.17	1 02, 11	1.51005110
minimum ciong	16443 Dec 30 04:10	0°≈	1 33 23	superior conj	16444 Dec 09 22:44	6° る 22'24	1°21'43
avanina riaa	16444 Jan 02 06:18	0 ∞ 6° ≈ 46'46			16444 Dec 09 20:39	6°る10'58	1°22'07
evening rise				minimum elong			1 22 07
	16444 Jan 14 04:16	0° ∀		evening rise	16444 Dec 16 16:37	21° る 13'26	
desc. node	16444 Jan 15 06:41	1° ¥ 50'55			16444 Dec 20 20:43	0° ≈	
evening max el	16444 Jan 30 04:46	21° ¥ 28′33	25°54'55	desc. node	16445 Jan 01 03:31	20° ≈ 00′29	
retrograde	16444 Feb 13 03:32	28° ∺ 31'45			16445 Jan 08 23:05	0° ℋ	
evening set	16444 Feb 19 04:12	27°) €07'08		evening max el	16445 Jan 10 17:06	1°) 45′53	24°21'46
min. Earth dist.	16444 Feb 23 17:50	24° ∺ 28'18	0.57361 AU	retrograde	16445 Jan 24 08:18	8° 升 33′05	
inferior conj	16444 Feb 26 16:52	22° ∺ 24'30	-3°59'40	evening set	16445 Jan 29 11:08	7° ₩ 35'48	
minimum elong	16444 Feb 27 01:46	22°) €08'57	3°56'38	min. Earth dist.	16445 Feb 04 04:53	4°) 42′46	0.55619 AU
morning rise	16444 Mar 06 02:27	18° ¥ 04'28		inferior conj	16445 Feb 06 08:22	3° ¥ 24'12	-5°19'26
direct	16444 Mar 08 01:44	17°) 52'12		minimum elong	16445 Feb 06 17:02	3° ¥ 10'57	
asc. node	16444 Mar 10 18:52	18°) 16'40		8	16445 Feb 12 21:43	30°R≈	
morning max el	16444 Mar 16 19:12	22°) (09'34	18°47'35	morning rise	16445 Feb 15 00:57	29° ≈ 24'14	
morning max cr	16444 Mar 22 22:08	0°Υ	10 4/ 33	direct	16445 Feb 17 07:57	29°≈10'26	
. ,		18° Υ 13'27		direct			
morning set	16444 Apr 02 00:00				16445 Feb 21 12:54	0° \	
	16444 Apr 08 01:19	9° 8		asc. node	16445 Feb 25 16:11	2° ¥ 28'17	
				morning max el	16445 Feb 27 13:30	4° ∺ 08'36	19°50'00
superior conj	16444 Apr 10 17:41	5° 8 06'14			16445 Mar 15 19:29	0° Y	
minimum elong	16444 Apr 10 18:33	5° 8 10'19	0°12'55	morning set	16445 Mar 17 04:12	2° Y 44'46	
behind sun begin	16444 Apr 10 14:30	4° 8 51'17					
behind sun end	16444 Apr 10 22:35	5° 8 29'18		superior conj	16445 Mar 25 01:33	18° Ƴ 41'12	0°42'47
desc. node	16444 Apr 12 07:45	8° 8 04'13		minimum elong	16445 Mar 25 03:46	18° Ƴ 52'09	0°42'15
max. Earth dist.	16444 Apr 17 22:33	18° 8 13'33	1.39585 AU	desc. node	16445 Mar 30 04:27	28° Ƴ 35′08	
evening rise	16444 Apr 21 20:51	25° 8 00'07			16445 Mar 30 22:34	0°8	
<i>5</i> - <i>7</i>	16444 Apr 24 20:49	0°II		max. Earth dist.	16445 Mar 31 04:57		1.37288 AU
	16444 May 14 22:52	0°©		evening rise	16445 Apr 03 21:36	7° 8 13'24	200710
evening max el	16444 May 26 19:10	14° © 07'48	24°06'05	0,0111115 1150	16445 Apr 17 17:18	7 〇 13 24 0°耳	
asc. node	16444 Jun 06 16:53	20°541'11	4T 0003	ovening mag1	-	0 Ⅱ 28°Ⅱ02'08	25022120
				evening max el	16445 May 09 08:32		23 23 30
retrograde	16444 Jun 07 00:11	20°5541'34			16445 May 11 10:56	0°95	
evening set	16444 Jun 12 11:14	18°522'06	0.6062= :==	retrograde	16445 May 21 14:01	5°907'28	
min. Earth dist.	16444 Jun 17 02:06	13° © 00'26	0.68837 AU	asc. node	16445 May 24 13:55	4° © 30'43	

evening set	16445 May 27 12:15	2° © 38'37		asc. node	16446 May 11 11:02	16° Ⅱ 34'30	
evening set	16445 May 30 02:28	2 3 30 37		min. Earth dist.	16446 May 15 07:54	10 H 3430	0.66752 AU
min. Earth dist.	16445 May 31 19:23	27° I I54'03	0.68023 AU	inferior conj	16446 May 17 05:46	10° Ⅱ 14'54	1°40'30
inferior conj	16445 Jun 02 04:09	26° I 07'57	2°19'12	minimum elong	16446 May 17 03:40	10° Ⅱ 21'14	1°39'15
minimum elong	16445 Jun 02 02:01	26° Ⅱ 14'54		morning rise	16446 May 23 01:32	4° ∏ 34'02	1 37 13
morning rise	16445 Jun 07 16:12	20° II 15'39	2 10 03	direct	16446 May 26 04:20	3° ∏ 39'34	
direct	16445 Jun 11 05:25	19° Ⅱ 03'21		morning max el	16446 Jun 01 15:00	7° Ⅱ 03'48	18°23'30
morning max el	16445 Jun 18 03:33	22° I I49'10	19°07'54	desc. node	16446 Jun 13 01:37	22° I 24'47	10 23 30
morning max or	16445 Jun 24 04:35	0°99	15 07 51	desc. Hode	16446 Jun 17 22:07	0°ම	
desc. node	16445 Jun 26 04:32	2°9545'10		morning set	16446 Jun 21 23:19	6° 9 24'12	
greatest brilliancy	16445 Jul 01 00:39	9° © 47'47	-0.7m	morning set	16446 Jul 06 23:56	0°Ω	
morning set	16445 Jul 11 23:05	26°\$28'00	0.7111		10440 341 00 25.50	0 0 C	
morning set	16445 Jul 14 06:03	0°Ω		superior conj	16446 Jul 07 14:55	0° Ω 58'21	-2°11'55
max. Earth dist.	16445 Jul 25 09:20	17° Ω 18'00	1.45615 AU	minimum elong	16446 Jul 07 11:08	0°Ω43'36	
max. Lartii dist.	10443 Jul 23 09.20	17 861800	1.43013 AU	max. Earth dist.	16446 Jul 08 05:06	1° Ω 53'38	1.46030 AU
superior conj	16445 Jul 28 05:24	21° Ω 45'11	2011/46	evening rise	16446 Jul 23 13:44	25° Ω 52'02	1.40030 AU
minimum elong	16445 Jul 28 09:22	$21^{\circ} \Omega^{43} \Pi^{43} $		evening rise	16446 Jul 26 05:02	0° m)	
minimum ciong			2 12 03			-	0.0
	16445 Aug 02 10:17	0° Mp 15° Mp 30'03		greatest brilliancy	16446 Aug 01 21:27 16446 Aug 07 10:46	10° Mp 24'16	-0.8m
evening rise	16445 Aug 12 00:34	~		asc. node	0	18° Mp 42'19	10050140
asc. node	16445 Aug 20 14:03	29° m/23'31		evening max el	16446 Aug 14 17:26	27° m/48'50	18°50'48
	16445 Aug 20 23:15	0° ⊽	10017151	. 1	16446 Aug 17 07:52	0° 亞	
evening max el	16445 Aug 31 05:34	14° £ 00'36	18°17'51	retrograde	16446 Aug 21 09:51	1° 2 27'14	
retrograde	16445 Sep 06 14:44	17° £ 24'09		evening set	16446 Aug 24 18:17	0° ჲ 22'40	
evening set	16445 Sep 09 13:42	16° ₽ 36'03	1050104		16446 Aug 25 07:27	30°R, Mp	2021100
inferior conj	16445 Sep 15 11:49	11° ≏ 06'37		inferior conj	16446 Aug 30 07:49	•	2°31'08
minimum elong	16445 Sep 15 14:07	10° ≏ 59'57	1°51'57	minimum elong	16446 Aug 30 09:56	24° m 32'35	2°30'33
min. Earth dist.	16445 Sep 17 19:19	8° ≏ 25'52	0.64575 AU	min. Earth dist.	16446 Sep 01 01:36	22° m 27'45	0.66373 AU
morning rise	16445 Sep 21 12:55	4° ≏ 45'41		morning rise	16446 Sep 05 00:37	18° m) 12'35	
desc. node	16445 Sep 22 02:09	4° ≏ 20'22		desc. node	16446 Sep 08 23:29	15° m 55'36	
direct	16445 Sep 28 01:35	2° ≏ 10'49		direct	16446 Sep 11 05:43	15° M 35'47	
morning max el	16445 Oct 11 17:17		27°25'10	morning max el	16446 Sep 24 04:51	23° Mp 17'02	26°25'38
	16445 Oct 27 09:39	0° M			16446 Sep 30 04:26	0∘ ⊽	
	16445 Nov 14 02:03	0° ∡ ¹			16446 Oct 20 17:32	0°M₊	
morning set	16445 Nov 16 00:10	3° ∡¹ 43'57		morning set	16446 Oct 30 01:45	16°M33'56	
asc. node	16445 Nov 16 14:55	4° ⋌ ¹56'53		max. Earth dist.	16446 Nov 02 22:24	23°M59'06	1.34543 AU
max. Earth dist.	16445 Nov 20 12:33	12° ₹ 52'38	1.32831 AU	asc. node	16446 Nov 03 11:48	25°M05'11	
					16446 Nov 05 22:37	0° ∡ ¹	
superior conj	16445 Nov 24 03:41	20° ∡ ³33'28	1°04'23				
minimum elong	16445 Nov 24 01:18	20° ∡ 20'42	1°04'38	superior conj	16446 Nov 08 02:04	4° ∡ ¹23'44	
	16445 Nov 28 12:21	0°ಕ		minimum elong	16446 Nov 08 00:03	4° ҂ 13'19	0°41'00
evening rise	16445 Dec 01 03:19	5° る 39'47		evening rise	16446 Nov 15 12:30	20° ≯ ′00'47	
	16445 Dec 13 22:46	0° ≈			16446 Nov 20 10:02	0°₹	
desc. node	16445 Dec 19 00:26	7° ≈ 08'27		evening max el	16446 Dec 04 19:13	21° る 51'30	21°01'44
evening max el	16445 Dec 23 02:38	11° ≈ 40′52	22°38'08	desc. node	16446 Dec 05 21:26	22° る 53'18	
retrograde	16446 Jan 05 00:46	18° ≈ 04'13		retrograde	16446 Dec 16 10:24	27° る 36'58	
evening set	16446 Jan 08 21:45	17° ≈ 31'25		evening set	16446 Dec 19 02:48	27° る 19'56	
min. Earth dist.	16446 Jan 16 11:19	14° ≈ 04'21	0.54566 AU	inferior conj	16446 Dec 27 20:40	23° る 29'13	-5°42'58
inferior conj	16446 Jan 17 06:03	13° ≈ 37'55	-6°00'57	minimum elong	16446 Dec 27 13:35	23° る 39'17	5°41'19
minimum elong	16446 Jan 17 07:57	13° ≈ 35'13	6°00'23	min. Earth dist.	16446 Dec 28 16:41	23° る 00'46	0.54420 AU
morning rise	16446 Jan 25 19:17	9° ≈ 49'40		morning rise	16447 Jan 05 00:26	19° る 36'46	
direct	16446 Jan 28 21:03	9° ≈ 28'06		direct	16447 Jan 09 04:30	18° る 59'15	
morning max el	16446 Feb 09 17:03	15° ≈ 11'19	21°15'34	morning max el	16447 Jan 22 07:01	25° る 23'15	22°59'46
asc. node	16446 Feb 12 13:29	18° ≈ 14'44			16447 Jan 26 12:34	0°≈	
	16446 Feb 20 13:52	0° ∀		asc. node	16447 Jan 30 10:46	5° ≈ 16'37	
morning set	16446 Mar 01 13:12	17° ∺ 26′05			16447 Feb 13 00:11	0° ∀	
	16446 Mar 07 12:44	0° Y		morning set	16447 Feb 14 00:39	2°) €09'43	
		_					
superior conj	16446 Mar 08 20:27	2° Y 44'52	1°06'00	superior conj	16447 Feb 20 23:00	17° ∺ 06'46	1°22'54
minimum elong	16446 Mar 08 22:58	2° Y 57'53	1°05'40	minimum elong	16447 Feb 21 01:06	17° ¥ 18′05	1°22'53
max. Earth dist.	16446 Mar 13 14:37	12° Y ′22'49	1.35163 AU	max. Earth dist.	16447 Feb 24 07:10	24° ∺ 11′09	1.33389 AU
desc. node	16446 Mar 17 01:11	19° Ƴ 01'51			16447 Feb 27 03:13	0° Υ	
evening rise	16446 Mar 17 15:20	20° Y ′08'32		evening rise	16447 Feb 28 22:25	3° Ƴ 35′05	
	16446 Mar 23 01:55	0° 8		desc. node	16447 Mar 03 21:54	9° Ƴ 19'25	
	16446 Apr 11 16:40	Π °0			16447 Mar 15 21:41	9° 8	
evening max el	16446 Apr 21 22:08	11° Ⅱ 50'40	26°29'16	evening max el	16447 Apr 04 11:43	25° 8 24'10	27°16'01
retrograde							
	16446 May 04 22:52	19° Ⅱ 15'52			16447 Apr 10 00:32	Π $\circ 0$	
evening set	16446 May 04 22:52 16446 May 11 06:54	19° Ⅱ 15'52 16° Ⅱ 43'02		retrograde	16447 Apr 10 00:32 16447 Apr 18 01:41	0°Ц 2°Ц57'05	

. ,	16447 4 24 17 02	00 T 2056			16440 E 1 12 15 40	170 V 25110	
evening set	16447 Apr 24 17:03	0° Ⅱ 26'56		evening rise	16448 Feb 12 15:40	17°) €25'10	
_	16447 Apr 25 06:42	30° ₹ 8		desc. node	16448 Feb 18 18:37	29°) €23'07	
asc. node	16447 Apr 28 08:13	27° 8 04'26			16448 Feb 19 02:34	0° Υ	
min. Earth dist.	16447 Apr 28 13:37	26° 8 50'00	0.65063 AU		16448 Mar 09 08:53	$0^{\circ}S$	
inferior conj	16447 May 01 00:03	24° 8 08'08	0°48'48	evening max el	16448 Mar 16 23:44	8° 8 30'51	27°36'21
minimum elong	16447 Apr 30 22:46	24° 8 11'42	0°47'50	retrograde	16448 Mar 30 21:09	16° 8 01'33	
morning rise	16447 May 07 06:20	18° 8 40'29		evening set	16448 Apr 06 16:17	13° 8 41'10	
direct	16447 May 09 23:46	18° 8 01'14		min. Earth dist.	16448 Apr 10 10:38	10° 8 32'09	0.63043 AU
morning max el	16447 May 16 06:54	21° 8 16'21	17°56'07	inferior conj	16448 Apr 13 08:00	7° 겅 39'59	-0°17'01
	16447 May 23 03:20	$\Pi^{\circ}0$		minimum elong	16448 Apr 13 08:33	7° 8 38'36	0°17'09
desc. node	16447 May 30 22:38	12° Ⅲ 25'22		asc. node	16448 Apr 14 05:29	6° 8 46'57	
morning set	16447 Jun 03 02:34	17° Ⅲ 38'07		morning rise	16448 Apr 20 03:32	2° 8 28'00	
morning sec	16447 Jun 10 15:59	0°95		direct	16448 Apr 22 12:45	2°800'50	
	1044/ Juli 10 13.39	0 3			•	5° 8 18'32	17046111
	16447 1 17 05 42	100631120	1050145	morning max el	16448 Apr 29 00:32	_	17°46'11
superior conj	16447 Jun 17 05:42	10°531'20		morning set	16448 May 15 07:10	0° Д 03'32	
minimum elong	16447 Jun 16 21:19	9° © 58'08	1°52'44		16448 May 15 06:21	0°Щ	
max. Earth dist.	16447 Jun 21 01:14	16° © 31'55	1.45691 AU	desc. node	16448 May 16 19:33	2° ∏ 40′38	
	16447 Jun 29 17:27	$0^{\circ}\Omega$					
evening rise	16447 Jul 03 06:28	5° Ω 26′26		superior conj	16448 May 27 15:09	20° Ⅱ 57'09	-1°20'25
greatest brilliancy	16447 Jul 17 06:09	26° Ω 30'37	-0.6m	minimum elong	16448 May 27 07:49	20° Ⅲ 27′02	1°20'07
	16447 Jul 19 16:21	o∘ mp			16448 Jun 02 05:03	0°ಅ	
asc. node	16447 Jul 25 07:33	7° m) 33'02		max. Earth dist.	16448 Jun 02 19:43	0° © 58'34	1.44638 AU
evening max el	16447 Jul 29 00:26	11° m) 42'53	19°40'00	evening rise	16448 Jun 11 17:03	14°952'21	1.11050710
-		15° m) 48' 19	19 40 00	evening rise	16448 Jun 21 18:04	0°Ω	
retrograde	16447 Aug 05 08:00						20042122
evening set	16447 Aug 09 02:36	14° m 25'57		evening max el	16448 Jul 11 01:25	25° Ω 38'06	20°43'32
inferior conj	16447 Aug 14 10:46	8° m 30'00	2°55'08	asc. node	16448 Jul 11 04:22	25° Ω 45'26	
minimum elong	16447 Aug 14 12:12	8° Mp 25'12	2°54'38		16448 Jul 17 05:46	0° m y	
min. Earth dist.	16447 Aug 15 14:38	6° Mp 57′02	0.67766 AU	retrograde	16448 Jul 19 07:01	0°m/21'12	
morning rise	16447 Aug 19 21:16	2° Mp 03'32			16448 Jul 21 06:09	30° r Ω	
	16447 Aug 23 03:57	30° R Ω		evening set	16448 Jul 23 12:27	28° Ω 40'46	
direct	16447 Aug 25 16:14	29° Ω 32'47		inferior conj	16448 Jul 28 18:08	22° Ω 33′23	3°06'37
desc. node	16447 Aug 26 20:50	29° Ω 38'26		minimum elong	16448 Jul 28 18:39	22° Ω 31'34	3°06'09
door. node	16447 Aug 28 08:10	0° m)		min. Earth dist.	16448 Jul 29 08:19	21°Ω44'24	0.68700 AU
morning max el	16447 Sep 06 15:55		25°07'10	morning rise	16448 Aug 03 00:34	16° Ω 11'01	0.00700710
morning max er	-	~	23 07 10	-	_		
	16447 Sep 24 19:23	0∘ ⊽		direct	16448 Aug 08 07:53	13° Ω 52'41	
morning set	16447 Oct 12 11:29	28° ≏ 41'44		desc. node	16448 Aug 12 18:09	15° Ω 10'49	
	16447 Oct 13 04:59	0° M		morning max el	16448 Aug 19 02:58	20° Ω 18'47	23°39'19
max. Earth dist.	16447 Oct 15 23:54	5° ™ 04'54	1.36704 AU		16448 Aug 27 10:00	0° m y	
asc. node	16447 Oct 21 08:37	15° M ₊17'19			16448 Sep 16 23:42	0∘ ত	
				morning set	16448 Sep 23 01:08	9° ♀ 57'22	
superior conj	16447 Oct 22 14:55	17° M 46'11	0°11'21	max. Earth dist.	16448 Sep 26 22:45	16° ≏ 39'22	1.39111 AU
minimum elong	16447 Oct 22 14:12	17° M 42'37	0°11'39		16448 Oct 04 07:45	0° M	
behind sun begin	16447 Oct 22 09:42	17°M20'23					
behind sun end	16447 Oct 22 18:42	18°M04'53		superior conj	16448 Oct 04 14:29	0°M31'27	-0°23'04
bennia san ena	16447 Oct 28 16:36	0° ∡ 7		minimum elong	16448 Oct 04 16:09	0°M39'16	0°22'29
				_			0 22 29
evening rise	16447 Oct 30 18:01	4° ∡ 11'27		asc. node	16448 Oct 07 05:23	5°M29'10	
	16447 Nov 14 14:16	0°ರ		evening rise	16448 Oct 13 17:09	18° ™ 04'45	
evening max el	16447 Nov 17 01:35	2° る 45'49	19°43'59		16448 Oct 19 23:47	0° ∡ ¹	
desc. node	16447 Nov 22 18:29	6° る 51'05		evening max el	16448 Oct 29 21:48	14° ∡ ¹29'51	18°48'32
retrograde	16447 Nov 27 01:34	7° る 45'29		retrograde	16448 Nov 07 09:34	18° ∡ ¹47'17	
evening set	16447 Nov 29 02:14	7° る 34'06		desc. node	16448 Nov 08 15:37	18° ∡ ′41'59	
inferior conj	16447 Dec 07 18:56	3° る 32'22	-4°29'50	evening set	16448 Nov 09 07:17	18° ∡ ³35′07	
minimum elong	16447 Dec 07 08:59	3° る 47'53	4°26'15	inferior conj	16448 Nov 17 11:41	14° ∡ °13'43	-2°49'15
min. Earth dist.	16447 Dec 09 23:52	2° る 09'54	0.55213 AU	minimum elong	16448 Nov 17 04:49	14° ∡ ¹26'09	2°46'02
	16447 Dec 13 21:57	30°R. ✓	***************************************	min. Earth dist.	16448 Nov 20 12:01	12° х 03′32	0.56785 AU
morning rise	16447 Dec 15 14:15	29° 🖈 17'28		morning rise	16448 Nov 24 23:22	9° × ⁷ 23'40	0.50705 AU
direct		29 x 17 28 28° x 17'33		direct		7° x ⁷ 57'56	
uncci	16447 Dec 20 19:08				16448 Nov 30 22:44		26926102
	16447 Dec 27 12:39	0°る	24040120	morning max el	16448 Dec 15 03:00	15° ∡ 17'35	26°26'02
morning max el	16448 Jan 03 15:09	5°る12'41	24~49'39	_	16448 Dec 26 23:05	0°る	
asc. node	16448 Jan 17 08:01	23° る 16'26		asc. node	16449 Jan 03 05:12	11° る 59'16	
	16448 Jan 21 04:01	0° ≈			16449 Jan 12 07:45	0° ≈	
morning set	16448 Jan 29 12:37	16° ≈ 50′28		morning set	16449 Jan 12 23:19	1° ≈ 23′28	
	16448 Feb 04 12:29	0° ∀					
				superior conj	16449 Jan 19 17:05	16° ≈ 17'47	1°38'02
superior conj	16448 Feb 05 06:36	1° ¥ 39'49	1°33'31	minimum elong	16449 Jan 19 17:20	16° ≈ 19'12	1°38'32
minimum elong	16448 Feb 05 07:53			max. Earth dist.	16449 Jan 20 13:06	18° ≈ 09'26	1.31245 AU
max. Earth dist.	16448 Feb 07 07:24		1.32068 AU		16449 Jan 25 23:00	0° ∀	
		. ,(0002	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		2011 20 20.00	- /\	

evening rise	16449 Jan 26 16:24	1° ∺ 32′09		max. Earth dist.	16450 Jan 03 20:42	0° ≈ 11'16	1.30959 AU
desc. node	16449 Feb 04 15:21	19° ∺ 07'06		evening rise	16450 Jan 10 22:21	15° ≈ 50′07	
	16449 Feb 11 01:14	0 ° Υ			16450 Jan 17 21:22	0° ∀	
evening max el	16449 Feb 27 07:36	20° Ƴ 57'33	27°24'22	desc. node	16450 Jan 22 12:07	8° 升 22'59	
retrograde	16449 Mar 13 08:03	28° Y ′20'23			16450 Feb 06 20:13	0 ° Υ	
evening set	16449 Mar 20 01:50	26° Ƴ 16'48		evening max el	16450 Feb 09 08:32	2° Y 32'53	26°37'09
min. Earth dist.	16449 Mar 23 21:35	23° Y 28'41	0.60814 AU	retrograde	16450 Feb 23 09:01	9° Ƴ 44'50	
inferior conj	16449 Mar 27 02:09	20° Ƴ 41'38	-1°36'49	evening set	16450 Mar 01 18:21	8° Y ′04'26	
minimum elong	16449 Mar 27 05:42	20° Y 33'50	1°35'32	min. Earth dist.	16450 Mar 05 22:09	5° Y ′26′25	0.58558 AU
asc. node	16449 Apr 01 02:46	16° Ƴ 51'48		inferior conj	16450 Mar 09 02:35	3° Ƴ 01'43	-3°06'59
morning rise	16449 Apr 03 12:58	15° Ƴ 48'25		minimum elong	16450 Mar 09 09:47	2° Y 48'01	3°04'18
direct	16449 Apr 05 15:37	15° Ƴ 29'53			16450 Mar 13 12:13	30° Ŗ ₩	
morning max el	16449 Apr 12 16:44	19° Ƴ 01'35	17°54'25	morning rise	16450 Mar 17 04:47	28°) € 29'44	
	16449 Apr 20 17:18	8° 0		direct	16450 Mar 19 03:41	28° 升 16′21	
morning set	16449 Apr 28 07:30	13° 8 23'44		asc. node	16450 Mar 19 00:04	28° 升 16′26	
desc. node	16449 May 03 16:24	23° 8 05'54			16450 Mar 24 10:32	$0^{\circ}\mathbf{\Upsilon}$	
	16449 May 07 14:05	$\Pi^{\circ}0$		morning max el	16450 Mar 27 03:47	2° Y 13'48	18°22'10
	•			morning set	16450 Apr 11 21:58	27° Y ′21'09	
superior conj	16449 May 09 00:05	2° Ⅱ 27'40	-0°42'52	Ü	16450 Apr 13 07:21	0° ႘	
minimum elong	16449 May 08 20:19	2° I I11'23	0°42'48	desc. node	16450 Apr 20 13:11	13° 8 36'19	
max. Earth dist.	16449 May 16 10:15	14° ∏ 57'47	1.42980 AU				
evening rise	16449 May 22 13:49	24° Ⅱ 50'38		superior conj	16450 Apr 21 06:34	14° 8 55'50	-0°06'05
	16449 May 25 21:11	0°ಅ		minimum elong	16450 Apr 21 06:04	14° 8 53'37	
	16449 Jun 15 17:07	o°Ω		behind sun begin	16450 Apr 20 23:20	14° 8 22'48	0 002.
evening max el	16449 Jun 23 20:39	9° Ω 33'00	21°58'08	behind sun end	16450 Apr 21 12:49	15° 8 24'21	
asc. node	16449 Jun 28 01:16	13°Ω06'48	21 20 00	max. Earth dist.	16450 Apr 28 19:39	28° 8 15'48	1.40889 AU
retrograde	16449 Jul 03 05:16	15° Ω 00'31		max. Earth dist.	16450 Apr 29 20:10	0°II	1.1000) 110
evening set	16449 Jul 07 22:00	13° Ω 02'59		evening rise	16450 May 03 06:03	5° Ⅱ 41'27	
inferior conj	16449 Jul 13 03:46	6°Ω45'35	3°06'57	evening rise	16450 May 19 00:45	0°95	
minimum elong	16449 Jul 13 03:20	6°Ω47'04	3°06'23	evening max el	16450 Jun 06 11:50	23° © 27'32	23°19'03
min. Earth dist.	16449 Jul 13 04:40	6°Ω42'27	0.69144 AU	asc. node	16450 Jun 14 22:13	29° © 20'10	23 1903
morning rise	16449 Jul 18 08:30	0° Ω 29'41	0.07144 AC	retrograde	16450 Jun 17 01:14	29° © 39'26	
morning 1130	16449 Jul 18 23:17	30°RS		evening set	16450 Jun 22 05:33	27° 9 3720	
direct	16449 Jul 23 03:35	28°\$28'00		min. Earth dist.	16450 Jun 27 01:32	21°5643'44	0.69091 AU
direct	16449 Jul 27 18:37	28 3 28 00		inferior conj	16450 Jun 27 13:41	21°501'48	0.09091 AU 2°56'47
desc. node	16449 Jul 30 15:24	2° Ω 08'59		minimum elong	16450 Jun 27 12:24	21°501'48 21°506'14	2°56'01
	16449 Aug 01 16:09	4°Ω03'23	22°11'03	•	16450 Jul 02 19:12	14°953'54	2 3001
morning max el	· ·	4 8 2 03 23	22 11 03	morning rise direct	16450 Jul 07 02:11	13° © 11'08	
morning sat	16449 Aug 21 11:57 16449 Sep 03 15:35	-				13 9 11 08 17° 9 57' 06	20°49'44
morning set max. Earth dist.	16449 Sep 09 00:52	20° m 14'49	1.41478 AU	morning max el desc. node	16450 Jul 15 10:06		20 49 44
max. Earm dist.	16449 Sep 09 00.32	0° ⊽	1.414/6 AU	desc. node	16450 Jul 17 12:37	20° © 10'53 0° Ω	
	10449 Sep 09 14.10	0 ==			16450 Jul 25 06:45		
	16440 0 16 20 20	120 0 2011 (1000104	morning set	16450 Aug 14 07:49	29° Ω 37'10	
superior conj	16449 Sep 16 20:29	12° 2 30'16		E 41 E 4	16450 Aug 14 13:42	0° M)	1 42526 ATT
minimum elong	16449 Sep 17 01:23	12° £ 51'57	0-39-13	max. Earth dist.	16450 Aug 22 08:54	12-11/2019	1.43526 AU
asc. node	16449 Sep 24 02:07	25° ₽ 37'33			16450 4 20 04 47	220 m- 22127	1025121
	16449 Sep 26 10:40	0°M 1°M 22142		superior conj minimum elong	16450 Aug 29 04:47	23° TD 33'37	
evening rise	16449 Sep 27 06:35	1°M32'43 26°M58'15	10014152	minimum eiong	16450 Aug 29 12:25	24° Mp 05'36	1-344/
evening max el	16449 Oct 13 04:24		16 14 33		16450 Sep 02 00:00	0∘ <u>დ</u>	
ratragrada	16449 Oct 17 07:30	0° द्र ⁷ 0° द्र ⁷ 43'51		evening rise	16450 Sep 10 05:53 16450 Sep 10 22:50	14° £ 23'42 15° £ 38'35	
retrograde	16449 Oct 20 13:02			asc. node			
evening set	16449 Oct 22 14:58	0° ∡ 726′26		avanina may al	16450 Sep 19 07:04	0°M	10001120
JJ.	16449 Oct 23 21:05	30°RM		evening max el	16450 Sep 26 17:10	10°M01'39	18°01'28
desc. node	16449 Oct 26 12:47	28°M30'45	1000153	retrograde	16450 Oct 03 08:58	13°M28'06	
inferior conj	16449 Oct 30 02:20	25°M43'35		evening set	16450 Oct 05 18:15	13°M01'23	0017120
minimum elong	16449 Oct 29 23:46	25°M48'59		inferior conj	16450 Oct 12 12:55	7°M58'45	0°16'30
min. Earth dist.	16449 Nov 02 08:20	22°M59'42	0.58866 AU	minimum elong	16450 Oct 12 13:26	7°M57'29	0°16'39
morning rise	16449 Nov 06 05:08	20°M17'15		desc. node	16450 Oct 13 10:00	7°M07'09	0.61156 ATT
direct	16449 Nov 12 16:12	18°M24'57	27021145	min. Earth dist.	16450 Oct 15 14:26	5°M00'54	0.61156 AU
morning max el	16449 Nov 26 23:05	26°M04'56	21-31.45	morning rise	16450 Oct 19 05:39	2°M03'40	
	16449 Nov 30 15:46	0° ∡ ¹		J:4	16450 Oct 23 23:01	30° ₹ Ω	
1	16449 Dec 20 10:35	0°る		direct	16450 Oct 25 22:00	29° Ω 48'37	
asc. node	16449 Dec 21 02:17	1°る13'50			16450 Oct 27 22:02	0°M 7°M 42122	27050126
morning set	16449 Dec 28 06:52	15° る 43'35		morning max el	16450 Nov 09 02:49	7°M42'33	21-38.36
	16450 Jan 03 18:41	0° ≈		000 ms J-	16450 Nov 26 03:48	0° ✓ 20° √ 51142	
·	16450 1 04 04 00	005450	1027/21	asc. node	16450 Dec 07 23:19	20° x 51'43	
superior conj	16450 Jan 04 04:29	0°≈54'53		morning set	16450 Dec 12 09:21	29° х 46′29	
minimum elong	16450 Jan 04 03:41	0° ≈ 50'27	1 3/03		16450 Dec 12 11:57	0°ರ	

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asc. node	16452 Nov 10 17:13	0° √ 50'04		max. Earth dist.	16453 Oct 26 00:42	16°M.02'24	1.35426 AU
max. Earth dist.	16452 Nov 12 18:27	4° ∡ 757'20	1.33507 AU	asc. node	16453 Oct 28 14:04	21°ML00'36	1.55 120 110
max. Earth dist.	10432 NOV 12 16.27	4 × 37 20	1.55507 AU	asc. nouc	10433 OCI 28 14.04	21 11600 30	
	1645231 17 01 02	120 7 50104	0055100		16452 0 + 21 10 45	270 m 20122	0020150
superior conj	16452 Nov 17 01:03	13° ∡ 50′04	0°55'08	superior conj	16453 Oct 31 19:47	27°M29'33	0°28'59
minimum elong	16452 Nov 16 22:44	13° ∡ ³37'47	0°55'21	minimum elong	16453 Oct 31 18:11	27° M 21'27	0°29'13
evening rise	16452 Nov 24 04:36	29° ₰ 07'13			16453 Nov 02 01:16	0° ∡ ¹	
	16452 Nov 24 14:34	0° ප		evening rise	16453 Nov 08 12:32	13° ∡ ¹24'59	
	16452 Dec 11 22:28	0°≈			16453 Nov 17 00:48	0° ප	
desc. node	16452 Dec 13 02:44	1° ≈ 21'41		evening max el	16453 Nov 26 20:42	13° る 43'43	20°25'52
evening max el	16452 Dec 14 22:48	3°≈16'55	21°55'14	desc. node	16453 Nov 29 23:45	16° る 24'13	
retrograde	16452 Dec 27 08:50	9° ≈ 25'09		retrograde	16453 Dec 07 19:35	19° ට 10'31	
evening set	16452 Dec 30 17:01	9° ≈ 00'13		evening set	16453 Dec 10 03:27	18° る 56'53	
-			6901101	-		16 3 0033	5017117
inferior conj	16453 Jan 08 06:12	5°≈10'00		inferior conj	16453 Dec 18 22:21		
minimum elong	16453 Jan 08 03:58	5°≈13'06	6°00'22	minimum elong	16453 Dec 18 13:05	15° ට 16'03	
min. Earth dist.	16453 Jan 08 03:56		0.54394 AU	min. Earth dist.	16453 Dec 20 09:28		0.54648 AU
morning rise	16453 Jan 16 15:40	1° ≈ 22'28		morning rise	16453 Dec 26 22:17	11° る 02'47	
direct	16453 Jan 20 04:36	0° ≈ 54'56		direct	16453 Dec 31 13:20	10° る 16'39	
morning max el	16453 Feb 01 14:35	6° ≈ 55'56	21°58'15	morning max el	16454 Jan 14 00:58	16° る 54'34	23°47'03
asc. node	16453 Feb 06 15:57	12° ≈ 41'04			16454 Jan 24 10:41	0° ≈	
	16453 Feb 17 04:48	0° ∀		asc. node	16454 Jan 24 13:14	0° ≈ 09'55	
morning set	16453 Feb 22 14:59	11° ¥ 02'03		morning set	16454 Feb 07 02:54	25° ≈ 45'49	
morning set	10-33 1 00 22 1-37	11 7(02 03		morning set	16454 Feb 09 01:57	0° \	
	16452 M 01 17 40	2601/00/22	1012157		10434 100 09 01.37	υ χ	
superior conj	16453 Mar 01 17:49	26° ₩ 09'33	1°13'57		1645451 10 00 10	100)/25120	1000110
minimum elong	16453 Mar 01 20:13	26° ¥ 22'13	1°13'45	superior conj	16454 Feb 13 22:49		1°28'10
	16453 Mar 03 13:56	0° Y		minimum elong	16454 Feb 14 00:37		1°28'17
max. Earth dist.	16453 Mar 05 21:27	4° Ƴ 44'17	1.34357 AU	max. Earth dist.	16454 Feb 16 17:30	16°) 36′06	1.32762 AU
evening rise	16453 Mar 10 03:46	13° Ƴ 08′27		evening rise	16454 Feb 21 15:32	26°) 46′10	
desc. node	16453 Mar 11 03:24	15° Ƴ 00'59			16454 Feb 23 06:41	0 ° Υ	
	16453 Mar 19 12:49	0°8		desc. node	16454 Feb 26 00:06	5° Ƴ 13'34	
	16453 Apr 09 12:12	0°II			16454 Mar 12 20:28	$B_{\circ 0}$	
evening max el	16453 Apr 14 04:53	5° Ⅱ 00'32	26°52'04	evening max el	16454 Mar 27 17:51	18° 8 23'43	27°28'16
retrograde	16453 Apr 27 11:40	12° Ⅱ 29'38	20 32 04	retrograde	16454 Apr 10 11:25	25° 8 56'58	27 20 10
•	•	9° П 57'07		•		23° 8 29'43	
evening set	16453 May 03 23:18			evening set	16454 Apr 17 05:06	_	
asc. node	16453 May 05 13:28	8° I I33'00		min. Earth dist.	16454 Apr 21 00:16	.T.	0.64237 AU
min. Earth dist.	16453 May 07 22:13	6° Ⅱ 02'13	0.66078 AU	asc. node	16454 Apr 22 10:40	18° 8 35'18	
inferior conj	16453 May 10 01:32	3° Ⅱ 32′24	1°20'16	inferior conj	16454 Apr 23 15:47	17° 8 17'28	0°22'39
minimum elong	16453 May 09 23:41	3° Ⅱ 37'50	1°19'05	minimum elong	16454 Apr 23 15:08	17° 8 19'11	0°21'58
	16453 May 13 07:51	30° ₹ 8		morning rise	16454 Apr 30 03:26	11° 8 56'30	
morning rise	16453 May 16 01:25	27° 8 56'57		direct	16454 May 02 17:13	11° 8 22'50	
direct	16453 May 19 00:13	27° 8 09'09		morning max el	16454 May 09 01:17	14° 8 37'25	17°49'49
	16453 May 24 20:26	0°II		<i>y</i>	16454 May 20 00:44	0°II	
morning max el	16453 May 25 08:14	0° Ⅱ 27'42	18000'51	desc. node	16454 May 25 00:57	8° Ⅱ 21'24	
desc. node	16453 Jun 07 03:59	18° I I13'53	10 07 31	morning set	16454 May 26 02:27	10° Ⅱ 08'32	
				morning set			
morning set	16453 Jun 13 11:55	28° Ⅱ 22'47			16454 Jun 07 02:42	0ං වෙ	
	16453 Jun 14 12:07	0 \circ					
				superior conj	16454 Jun 08 11:16	2°©11'06	
superior conj	16453 Jun 28 13:42	22° © 18'17	-2°05'54	minimum elong	16454 Jun 08 02:47	1° 5 37'03	1°39'58
minimum elong	16453 Jun 28 07:14	21° © 52'59	2°06'11	max. Earth dist.	16454 Jun 13 10:34	10° ട്ട 05'36	1.45321 AU
max. Earth dist.	16453 Jun 30 14:57	25° © 30'41	1.45978 AU	evening rise	16454 Jun 24 04:49	26°546'52	
	16453 Jul 03 12:07	$0^{\circ}\Omega$			16454 Jun 26 07:29	$0^{\circ}\Omega$	
evening rise	16453 Jul 14 16:52	17° Ω 21'53			16454 Jul 17 03:06	0° m)	
5	16453 Jul 22 21:42	0° m)		asc. node	16454 Jul 19 09:49	2° m/43'38	
greatest brilliancy	16453 Jul 26 04:04	4° m) 56'51	-0.7m	evening max el	16454 Jul 21 12:29	4° m 59'03	20°05'20
			-0.7111	•		-•	20 03 20
asc. node	16453 Aug 01 13:01	14° m 07'48	10000112	retrograde	16454 Jul 29 04:48	9° m, 19'52	
evening max el	16453 Aug 07 08:06	21° m 04'38	19°09'43	evening set	16454 Aug 02 03:52	7° m) 49'47	2001:2-
retrograde	16453 Aug 14 05:55	24° m 53'01		inferior conj	16454 Aug 07 10:37	1° M)48'35	3°01'25
evening set	16453 Aug 17 18:38	23° Mp 40'48		minimum elong	16454 Aug 07 11:41	-•	3°00'57
inferior conj	16453 Aug 23 05:30	17° m 51'37	2°42'56	min. Earth dist.	16454 Aug 08 08:35	0° m 33'57	0.68219 AU
minimum elong	16453 Aug 23 07:22	17° m 45'34	2°42'23		16454 Aug 08 18:41	30°R Ω	
min. Earth dist.	16453 Aug 24 17:14	15° m 55'59	0.67025 AU	morning rise	16454 Aug 12 19:06	25° Ω 23'14	
morning rise	16453 Aug 28 19:23	11° m)24'31		direct	16454 Aug 18 09:05	22° Ω 57'15	
desc. node	16453 Sep 03 01:58	8° m/52'03		desc. node	16454 Aug 20 23:19	23° £ 24'06	
direct	16453 Sep 03 20:19	8° Mp 49'46		morning max el	16454 Aug 29 21:23	_	24°30'22
morning max el	16453 Sep 16 10:17	16° M) 19'13	25°52'50	morning max or	16454 Aug 30 01:04	0° M)	2. 3022
morning max er	-	-	43 33 37		-		
	16453 Sep 27 19:06	ია ო 0∘ ত			16454 Sep 21 14:57	0∘ ⊽	
	16453 Oct 17 05:22	0°M,		morning set	16454 Oct 04 10:27	20° 2 56'51	
morning set	16453 Oct 22 08:41	9°M09'30		max. Earth dist.	16454 Oct 08 00:14	27° ≙ 16'53	1.37713 AU

	16454 0 + 00 12 00	00 m		. ,	16455 0 15 14 25	10 0 40107	
	16454 Oct 09 12:08	0° M		morning set	16455 Sep 15 14:35	1° £ 49'07	1 40122 ATT
aumorior aoni	16454 Oct 15 03:28	100 m 27/21	0000146	max. Earth dist.	16455 Sep 19 23:26	9° ≏ 09'41	1.40133 AU
superior conj minimum elong		10°M37'21 10°M38'06		gunariar agni	16455 San 27 20:10	23° ≏ 04'51	0020127
	16454 Oct 15 03:37 16454 Oct 14 20:56	10 1163806 10°Mc05'46	0 02 22	superior conj minimum elong	16455 Sep 27 20:10 16455 Sep 27 23:09	23° 2 18′28	0°37'55
behind sun begin behind sun end	16454 Oct 15 10:19	10 1103 40 11°ML10'31		minimum eiong	16455 Oct 01 13:41	0°M	0 3/33
asc. node	16454 Oct 15 10:52	11°ML13'09		asc. node	16455 Oct 02 07:36	1°ML24'19	
evening rise	16454 Oct 23 15:43	27°M29'25		evening rise	16455 Oct 07 11:14	11°ML13'34	
evening rise	16454 Oct 24 21:57	0° ₹		evening rise	16455 Oct 17 22:40	0° √	
evening max el	16454 Nov 09 09:13	24° х 59'31	19°17'35	evening max el	16455 Oct 23 10:31	7° ∡ 704'50	18°31'40
desc. node	16454 Nov 16 20:50	29° × ⁷ 29'49	17 17 33	retrograde	16455 Oct 31 09:23	11° × ⁷ 06'51	10 31 40
retrograde	16454 Nov 18 17:15	29°×7'40'33		evening set	16455 Nov 02 08:22	10° × 52'57	
evening set	16454 Nov 20 15:08	29° × ⁷ 29'36		desc. node	16455 Nov 03 17:59	10° × 26'56	
inferior conj	16454 Nov 29 03:40	25° ×7 20'16	-3°48'38	inferior conj	16455 Nov 10 05:47	6° ₹ 22'47	-2°05'32
minimum elong	16454 Nov 28 18:35	25° × ⁷ 35'18	3°44'55	minimum elong	16455 Nov 10 00:48	6°×732'24	
min. Earth dist.	16454 Dec 01 18:44	23° × ⁷ 35'59	0.55797 AU	min. Earth dist.	16455 Nov 13 10:16		0.57630 AU
morning rise	16454 Dec 06 19:42	20° ₹ 50'52		morning rise	16455 Nov 17 13:54	1° ∡ 16'53	,
direct	16454 Dec 12 09:05	19° ∡ ′40′13		5 5	16455 Nov 20 22:52	30°RML	
morning max el	16454 Dec 26 09:56	26° ×7 47'18	25°33'29	direct	16455 Nov 23 19:18	29°MJ39'17	
	16454 Dec 29 12:10	0°ਰ			16455 Nov 26 16:34	0° ∡ 7	
asc. node	16455 Jan 11 10:27	18° ට 29'42		morning max el	16455 Dec 08 01:00	7° ∡ 108'27	26°58'14
	16455 Jan 17 14:35	0° ≈			16455 Dec 25 02:06	0°ප	
morning set	16455 Jan 22 14:31	10° ≈ 23'58		asc. node	16455 Dec 29 07:35	7° ට 27'30	
3				morning set	16456 Jan 07 00:05	24° ප 52'07	
superior conj	16455 Jan 29 07:54	25° ≈ 13'49	1°36'11	. 8	16456 Jan 09 08:41	0° ≈	
minimum elong	16455 Jan 29 08:46	25° ≈ 18'35	1°36'34				
max. Earth dist.	16455 Jan 30 20:10	28° ≈ 34'13	1.31648 AU	superior conj	16456 Jan 13 19:01	9° ≈ 52'24	1°38'08
	16455 Jan 31 11:47	0°) €		minimum elong	16456 Jan 13 18:50	9° ≈ 51'18	1°38'39
evening rise	16455 Feb 05 12:15	10°) 44'11		max. Earth dist.	16456 Jan 14 03:00	10° ≈ 37'03	1.31061 AU
desc. node	16455 Feb 12 20:47	25°) €09'35		evening rise	16456 Jan 20 15:29	24°≈56'52	
	16455 Feb 15 13:23	$0^{\circ}\mathbf{\Upsilon}$			16456 Jan 23 01:27	0°) €	
	16455 Mar 08 22:09	0°8		desc. node	16456 Jan 30 17:31	14°) 42'35	
evening max el	16455 Mar 10 04:10	1° 8 14'04	27°35'27		16456 Feb 09 06:37	$0^{\circ}\Upsilon$	
retrograde	16455 Mar 24 03:41	8° 8 42'57		evening max el	16456 Feb 20 09:31	13° Y 20′12	27°08'33
evening set	16455 Mar 30 22:52	6° 8 28'40		retrograde	16456 Mar 05 10:39	20° Ƴ 38'37	
min. Earth dist.	16455 Apr 03 17:06	3° 8 29'36	0.62106 AU	evening set	16456 Mar 12 01:32	18° Ƴ 44'35	
inferior conj	16455 Apr 06 18:15	0° 8 37'15	-0°49'18	min. Earth dist.	16456 Mar 15 23:50	16° Ƴ 01'55	0.59842 AU
minimum elong	16455 Apr 06 19:56	0° 8 33'15	0°48'53	inferior conj	16456 Mar 19 05:18	13° Y 22'24	-2°14'18
· ·	16455 Apr 07 10:05	30° ₹ Υ		minimum elong	16456 Mar 19 10:23	13° Ƴ 11'51	2°12'22
asc. node	16455 Apr 09 07:56	28° Ƴ 18′07		asc. node	16456 Mar 26 05:14	8° Ƴ 50'57	
morning rise	16455 Apr 13 20:09	25° Ƴ 33'06		morning rise	16456 Mar 26 22:49	8° Ƴ 37'42	
direct	16455 Apr 16 02:12	25° Ƴ 10′10		direct	16456 Mar 28 23:17	8° Ƴ 21'52	
morning max el	16455 Apr 22 18:44	28° Ƴ 32'41	17°47'25	morning max el	16456 Apr 05 09:09	12° Ƴ 03'30	18°03'40
	16455 Apr 24 03:50	9° 8			16456 Apr 17 08:44	9° 8	
morning set	16455 May 08 16:05	22° 8 58'46		morning set	16456 Apr 20 23:02	6° 8 36'20	
desc. node	16455 May 11 21:50	28° 8 41'08		desc. node	16456 Apr 27 18:37	19° 8 08'42	
	16455 May 12 15:50	$\Pi^{\circ}0$					
				superior conj	16456 May 01 00:59	24° 8 59'34	-0°26'52
superior conj	16455 May 20 06:33	13° II 04'06	-1°04'42	minimum elong	16456 Apr 30 22:44	24° 8 49'36	0°26'59
minimum elong	16455 May 20 00:39	12° Ⅱ 39'17	1°04'28		16456 May 03 21:39	$\Pi^{\circ}0$	
max. Earth dist.	16455 May 27 02:52	24° Ⅱ 19'32	1.43990 AU	max. Earth dist.	16456 May 08 15:00	8° Ⅱ 01'13	1.42129 AU
	16455 May 30 16:14	0 \circ \odot		evening rise	16456 May 13 22:14	16° Ⅱ 40'47	
evening rise	16455 Jun 03 17:51	6° 5 21'35			16456 May 22 11:59	0 \circ \odot	
	16455 Jun 19 14:34	$0^{\circ}\Omega$			16456 Jun 13 12:34	$0^{\circ}\Omega$	
evening max el	16455 Jul 04 10:49	18° Ω 53'57	21°14'15	evening max el	16456 Jun 16 04:08	2° Ω 48'42	22°32'21
asc. node	16455 Jul 06 06:39	20° Ω 36′07		asc. node	16456 Jun 22 03:33	7° Ω 30'32	
retrograde	16455 Jul 13 03:43	23° Ω 55'53		retrograde	16456 Jun 26 00:59	8° Ω 35'11	
evening set	16455 Jul 17 13:47	22° Ω 08'14		evening set	16456 Jun 30 22:38	6° £ 31'11	
inferior conj	16455 Jul 22 19:12	15° Ω 56'24	3°08'04	inferior conj	16456 Jul 06 05:09	0° Ω 10′24	3°03'55
minimum elong	16455 Jul 22 19:19	15° Ω 55'59	3°07'35	minimum elong	16456 Jul 06 04:21	0° Ω 13'13	3°03'17
min. Earth dist.	16455 Jul 23 03:46	15° Ω 26'35	0.68941 AU	min. Earth dist.	16456 Jul 06 00:34	0° Ω 26′23	0.69177 AU
morning rise	16455 Jul 28 00:35	9° Ω 36'18			16456 Jul 06 08:08	30°Rூ	
direct	16455 Aug 02 02:43	7° Ω 24'27		morning rise	16456 Jul 11 09:54	23° © 57'43	
desc. node	16455 Aug 07 20:36	9° Ω 35'40		direct	16456 Jul 15 23:54	22° © 03'38	
morning max el	16455 Aug 12 08:57	13° Ω 29'59	23°01'20	desc. node	16456 Jul 24 17:51	27° © 02'51	
	16455 Aug 25 16:56	0° m)		morning max el	16456 Jul 24 23:37	27°517'09	21°35'16
	16455 Sep 14 12:01	0∘ ⊽			16456 Jul 27 12:29	0 ° Ω	

	16456 Aug 18 05:39	0° m		desc. node	16457 Jul 11 15:02	15° © 26'41	
morning set	16456 Aug 25 18:55	11° m)40'51			16457 Jul 22 07:59	0 \circ Ω	
max. Earth dist.	16456 Sep 01 03:55	21° Mp 56'48	1.42401 AU	morning set	16457 Aug 05 04:11	20° Ω 46′15	
	16456 Sep 05 23:43	0∘ ⊽			16457 Aug 11 02:37	0° m)	
				max. Earth dist.	16457 Aug 14 15:16	5° m 35'09	1.44251 AU
superior conj	16456 Sep 08 17:24	4° £ 41'08	-1°15'37				
minimum elong	16456 Sep 08 23:39	5° ₽ 08'09	1°14'46	superior conj	16457 Aug 20 15:37	15° m) 19'01	-1°48'32
asc. node	16456 Sep 18 04:17	21° ≏ 29'58		minimum elong	16457 Aug 20 23:34	15° m 51'42	1°48'00
evening rise	16456 Sep 19 19:13	24° £ 27'02			16457 Aug 29 09:45	0∘ ⊽	
evening rise	16456 Sep 22 20:33	0°M		evening rise	16457 Sep 02 10:53	° ≏ 57'56	
	16456 Oct 05 20:19	19°M49'41	18°06'50	•	-	11° ⊆ 26′20	
evening max el			18-06-50	asc. node	16457 Sep 05 01:00		
retrograde	16456 Oct 12 20:19	23°M25'12			16457 Sep 16 17:56	0° M	
evening set	16456 Oct 15 01:19	23°M04'08		evening max el	16457 Sep 19 10:26	3°M03'58	18°01'28
desc. node	16456 Oct 20 15:13	19° ™ 36′10		retrograde	16457 Sep 25 22:06	6° M 26′28	
inferior conj	16456 Oct 22 05:19	18° M ₊12'27	-0°30'27	evening set	16457 Sep 28 10:57	5°M54'37	
minimum elong	16456 Oct 22 04:16	18° ™ 14'49	0°29'35	inferior conj	16457 Oct 04 23:13	0° M L43'51	0°47'00
min. Earth dist.	16456 Oct 25 10:20	15°M20'26	0.59838 AU	minimum elong	16457 Oct 05 00:33	0°M40'25	0°46'46
morning rise	16456 Oct 29 03:59	12°M33'07		C	16457 Oct 05 16:12	30° ₽ Ω	
direct	16456 Nov 04 18:15	10°M30'32		desc. node	16457 Oct 07 12:29	28° ₽ 06'42	
morning max el	16456 Nov 19 00:23	18°M16'21	27047!50	min. Earth dist.	16457 Oct 07 20:36	27° Ω 46'35	0.62127 AU
morning max er			21 4139				0.02127 AU
	16456 Nov 28 21:15	0° ∡ 7		morning rise	16457 Oct 11 11:35	24° Ω 39'31	
asc. node	16456 Dec 15 04:38	26° ₹ 52'50		direct	16457 Oct 18 04:06	22° ≏ 17'20	
	16456 Dec 16 19:05	0°ප			16457 Nov 01 01:04	0° M	
morning set	16456 Dec 21 05:45	9° る 05'23		morning max el	16457 Nov 01 06:42	0° M 13′53	27°58'12
max. Earth dist.	16456 Dec 27 10:25	22° る 36'50	1.31017 AU		16457 Nov 22 23:23	0° ∡ ¹	
				asc. node	16457 Dec 02 01:38	16° ∡ ³38′04	
superior conj	16456 Dec 28 06:17	24° る 27'51	1°34'02	morning set	16457 Dec 05 05:26	22° ∡ 59′00	
minimum elong	16456 Dec 28 05:05	24° る 21'08	1°34'33		16457 Dec 08 13:37	0°ਰ	
	16456 Dec 30 17:39	0°≈	1 3 . 3 3	max. Earth dist.	16457 Dec 10 14:33	· -	1.31533 AU
evening rise	16457 Jan 03 23:07	9°≈18'43		max. Earth dist.	10437 DCC 10 14.33	4 02437	1.51555710
evening rise					16457 D 12 15 47	00=755102	1022140
	16457 Jan 14 10:18	0°) {		superior conj	16457 Dec 12 15:47	8°る55'02	1°23'49
desc. node	16457 Jan 16 14:19	3°) 43′52		minimum elong	16457 Dec 12 13:48	8° る 44'03	1°24'14
evening max el	16457 Feb 01 07:15		26°06'50	evening rise	16457 Dec 19 09:14	23° る 45'09	
	16457 Feb 08 17:42	0 ° Υ			16457 Dec 22 07:48	0° ≈	
retrograde	16457 Feb 15 06:28	1° Y 39'09		desc. node	16458 Jan 03 11:10	22° ≈ 01'33	
evening set	16457 Feb 21 09:42	0° Y 10′23			16458 Jan 09 07:06	0° ∀	
	16457 Feb 21 18:21	30° ₹ ₩		evening max el	16458 Jan 13 20:32	4° ¥ 57'00	24°36'46
min. Earth dist.	16457 Feb 25 20:23	27° ¥ 32′20	0.57660 AU	retrograde	16458 Jan 27 13:28	11°) 47'20	
inferior conj	16457 Feb 28 21:15	25° H 22'42		evening set	16458 Feb 01 20:05	10° ¥ 45'57	
minimum elong	16457 Mar 01 05:47	25° H 07'28	3°43'02	min. Earth dist.	16458 Feb 07 08:28	7° X 56'13	0.55836 AU
•			3 43 02				
morning rise	16457 Mar 09 05:05	20°) € 59'36		inferior conj	16458 Feb 09 15:51	6° ¥ 30′12	
direct	16457 Mar 11 04:07	20°) 47′09		minimum elong	16458 Feb 10 00:57	6° ∺ 16′03	5°06'49
asc. node	16457 Mar 13 02:32	20° ¥ 59'50		morning rise	16458 Feb 18 08:03	2°) 27'44	
morning max el	16457 Mar 19 16:42	24° ¥ 58'56	18°40'18	direct	16458 Feb 20 13:06	2° 升 14'35	
	16457 Mar 23 21:25	0 ° $\mathbf{\Upsilon}$		asc. node	16458 Feb 27 23:51	4°) 55′50	
morning set	16457 Apr 04 18:11	20° Y 46′16		morning max el	16458 Mar 02 13:04	7° ∺ 06'16	19°39'17
	16457 Apr 09 12:35	0°B			16458 Mar 17 06:09	$0^{\circ}\mathbf{\Upsilon}$	
	•			morning set	16458 Mar 19 21:28	5° Ƴ 15'30	
superior conj	16457 Apr 13 15:28	7° 8 49'06	0°08'25	Č			
minimum elong	16457 Apr 13 16:01	7° 8 51'41	0°07'59	superior conj	16458 Mar 27 21:27	21° Y ′19'16	0°38'40
behind sun begin	16457 Apr 13 09:57	7° 8 23'18	0 0737	minimum elong	16458 Mar 27 23:32	21° Υ 29'29	0°38'09
_	1	. •		minimum ciong			0 38 09
behind sun end	16457 Apr 13 22:05	8° 8 19'59			16458 Apr 01 09:39	0°8	
desc. node	16457 Apr 14 15:24	9° 8 40'25		desc. node	16458 Apr 01 12:09	0° 8 11'45	
max. Earth dist.	16457 Apr 20 23:10	21° 8 02'54	1.39928 AU	max. Earth dist.	16458 Apr 03 05:20	3° 8 23'29	1.37623 AU
evening rise	16457 Apr 24 23:45	27° 8 56'05		evening rise	16458 Apr 06 21:44	10° 8 02'36	
	16457 Apr 26 05:27	Π $^{\circ}0$			16458 Apr 18 23:19	Π $^{\circ}0$	
	16457 May 16 00:26	0 \circ \odot			16458 May 11 16:16	0 \circ \odot	
evening max el	16457 May 29 18:30	16° 5 344'19	23°53'55	evening max el	16458 May 12 07:49	0° © 38'55	25°12'26
asc. node	16457 Jun 09 00:32	23°509'54		retrograde	16458 May 24 10:04	7° 5 640'37	
retrograde	16457 Jun 09 19:28	23°5512'33		asc. node	16458 May 26 21:36	7°9515'14	
evening set	16457 Jun 15 04:50	20°954'41		evening set	16458 May 30 06:41	5°9512'48	
•			0.60000 ATT	•	•		0.60170 411
min. Earth dist.	16457 Jun 19 20:56	15°527'31	0.68922 AU	min. Earth dist.	16458 Jun 03 14:50	0°©22'44	0.68178 AU
inferior conj	16457 Jun 20 14:37	14°527'14	2°49'21		16458 Jun 03 21:51	30°RⅡ 200₩ 42105	2024124
minimum elong	16457 Jun 20 13:02	14° © 32'40	2°48'28	inferior conj	16458 Jun 04 21:39	28° Ⅱ 42'05	
morning rise	16457 Jun 25 21:15	8°\$23'22		minimum elong	16458 Jun 04 19:33	28° Ⅱ 48'58	2°22'56
direct	16457 Jun 29 23:21	6° 5 348'49		morning rise	16458 Jun 10 08:49	22° Ⅱ 48′09	
morning max el	16457 Jul 07 20:18	11° © 15'21	20°18'42	direct	16458 Jun 13 23:35	21° Ⅲ 33′07	

morning max el	16458 Jun 21 00:12	25° Ⅲ 23'27	19°15'52	desc. node	16459 Jun 15 09:17	24° Ⅱ 07'33	
	16458 Jun 25 02:08	0° ©			16459 Jun 19 04:35	0 \circ \odot	
desc. node	16458 Jun 28 12:12	4° 9 31'52		morning set	16459 Jun 25 06:09	9° 5 31'29	
greatest brilliancy	16458 Jul 03 18:01	12° © 04'50	-0.7m		16459 Jul 08 07:47	$0^{\circ}\Omega$	
morning set	16458 Jul 15 09:25	29° 5 45'29					
	16458 Jul 15 13:12	$0^{\circ}\Omega$		superior conj	16459 Jul 11 01:40	4° Ω 16'44	-2°13'12
max. Earth dist.	16458 Jul 28 07:45	19° Ω 48'57	1.45490 AU	minimum elong	16459 Jul 10 23:01	4° Ω 06′25	2°13'43
				max. Earth dist.	16459 Jul 11 03:13	4° Ω 22'44	1.46017 AU
superior conj	16458 Jul 31 15:23	25° Ω 02'20	-2°10'00	evening rise	16459 Jul 26 21:48	29° Ω 03'50	
minimum elong	16458 Jul 31 20:18	25° Ω 21'48	2°10'13	Č	16459 Jul 27 12:04	0° m)	
	16458 Aug 03 18:23	0° m)		greatest brilliancy	16459 Aug 04 09:28	12° m) 23'04	-0.8m
evening rise	16458 Aug 15 04:55	18° m) 32'42		asc. node	16459 Aug 09 18:28	20° m/31'13	
	16458 Aug 22 04:41	0∘ ⊽			16459 Aug 17 03:28	0ಂ ರ	
asc. node	16458 Aug 22 21:44	് _ 1° ഫ 08'43		evening max el	16459 Aug 17 13:43	ა – 0° ჲ 25'51	18°44'51
evening max el	16458 Sep 03 01:14	16° ≏ 38'40	18°14'28	retrograde	16459 Aug 24 04:29	ა _ 2331 4° _ 01'05	10 44 51
retrograde	16458 Sep 09 10:07	20° ₽ 01'09	10 1420	evening set	16459 Aug 27 11:29	2° £ 59'03	
•	16458 Sep 12 07:41	19° £ 15′26		evening set	_		
evening set			1045110		16459 Aug 30 19:51	30°RM)	2027115
inferior conj	16458 Sep 18 07:25	13° △ 48'23	1°45'18	inferior conj	16459 Sep 02 02:06	27° Mp 17'44	2°26'15
minimum elong	16458 Sep 18 09:39	13° Ω 41'56	1°44'41	minimum elong	16459 Sep 02 04:17	27° m 10'55	2°25'39
min. Earth dist.	16458 Sep 20 16:55	11° ≏ 04'12	0.64274 AU	min. Earth dist.	16459 Sep 03 22:00	25° m 01'09	0.66132 AU
morning rise	16458 Sep 24 09:53	7° ≏ 28'55		morning rise	16459 Sep 07 20:03	20° m 51'37	
desc. node	16458 Sep 24 09:47	7° ≏ 29'06		desc. node	16459 Sep 11 07:08	18° m 44'52	
direct	16458 Sep 30 23:24	4° £ 54'54		direct	16459 Sep 14 02:31	18° Mp 14'28	
morning max el	16458 Oct 14 17:00	12° ≏ 52'25	27°31'49	morning max el	16459 Sep 27 04:25	25° m 58'42	26°35'53
	16458 Oct 28 11:51	0° M ₊			16459 Sep 30 21:34	0∘ ⊽	
	16458 Nov 15 12:36	0° ∡ ¹			16459 Oct 22 01:01	0° M ₊	
morning set	16458 Nov 18 20:38	6° ∡ ¹27'27		morning set	16459 Nov 02 00:11	19° M 22'33	
asc. node	16458 Nov 18 22:36	6° ∡ ³37'10		asc. node	16459 Nov 05 19:28	26°M44'22	
max. Earth dist.	16458 Nov 23 11:33	15° ∡ 52′52	1.32617 AU	max. Earth dist.	16459 Nov 05 22:45	27° M 00'42	1.34256 AU
					16459 Nov 07 10:37	0° ∡ ¹	
superior conj	16458 Nov 26 21:32	23° ₹ '09'00	1°07'25				
minimum elong	16458 Nov 26 19:10	22° ∡ ′56′13	1°07'42	superior conj	16459 Nov 10 21:03	7° ∡ °02'35	0°44'48
Č	16458 Nov 30 01:16	ი∘ჳ		minimum elong	16459 Nov 10 18:55	6° ∡ 751'31	0°44'59
evening rise	16458 Dec 03 20:00	8° ට 12'01		evening rise	16459 Nov 18 05:30	22° х 33′49	
	16458 Dec 15 00:59	0° ≈		0.7	16459 Nov 21 19:55	0°ਰ	
desc. node	16458 Dec 21 08:06	9° ≈ 20'21		evening max el	16459 Dec 07 20:57	24° る 59'21	21°15'07
evening max el	16458 Dec 26 05:57	14°≈53'21	22°53'33	desc. node	16459 Dec 08 05:05	25° る 19'08	21 13 07
retrograde	16459 Jan 08 07:38	21°≈21'01	22 33 33	desc. Hode	16459 Dec 15 04:35	0°≈	
evening set	16459 Jan 12 09:11	21°≈45'06		ratrograda	16459 Dec 19 17:19	0°≈50'50	
Č	16459 Jan 19 15:35		0.54669 AU	retrograde evening set	16459 Dec 22 13:29	0°≈32'07	
min. Earth dist.				evening set	16459 Dec 24 11:28	0 ≈3207 30°Rる	
inferior conj	16459 Jan 20 15:43	16°≈49'53		:c:		• -	5940129
minimum elong	16459 Jan 20 19:00	16°≈45'12	5-5/32	inferior conj	16459 Dec 31 06:26	26°₹42'09	
morning rise	16459 Jan 29 06:02	13°≈00'27		minimum elong	16459 Dec 31 00:27	26° ろ 50'36	
direct	16459 Feb 01 04:14	12° ≈ 40'35	21001125	min. Earth dist.	16459 Dec 31 20:51		0.54383 AU
morning max el	16459 Feb 12 18:55	18°≈17'28	21°01'25	morning rise	16460 Jan 08 11:40	22°る51'32	
asc. node	16459 Feb 14 21:09	20°≈28'59		direct	16460 Jan 12 11:54	22° ろ 16'45	
_	16459 Feb 21 18:02	0° ∀		morning max el	16460 Jan 25 10:27	28° る 35'11	22°43'27
morning set	16459 Mar 04 05:53	19° ¥ 55'25			16460 Jan 26 20:19	0° ≈	
	16459 Mar 09 01:26	0° Y		asc. node	16460 Feb 01 18:26	7°≈20'25	
					16460 Feb 14 11:58	0° ∀	
superior conj	16459 Mar 11 14:54	5° Ƴ 18'54		morning set	16460 Feb 16 17:05	4°) 38′52	
minimum elong	16459 Mar 11 17:25	5° Ƴ 31'52	1°02'30				
max. Earth dist.	16459 Mar 16 14:01	15° Ƴ 17′28	1.35462 AU	superior conj	16460 Feb 23 16:27	19° ∺ 38'15	1°20'44
desc. node	16459 Mar 19 08:53	20° Y 39'10		minimum elong	16460 Feb 23 18:39	19° ¥ 50′01	1°20'39
evening rise	16459 Mar 20 13:10	22° Y ′51′54		max. Earth dist.	16460 Feb 27 05:31	27° ∺ 05'54	1.33628 AU
	16459 Mar 24 11:25	9° 8			16460 Feb 28 15:27	$0^{\circ}\mathbf{\Upsilon}$	
	16459 Apr 12 16:28	$\Pi^{\circ}0$		evening rise	16460 Mar 02 18:26	6° Ƴ 14'09	
evening max el	16459 Apr 24 21:25	14° Ⅲ 28'45	26°20'33	desc. node	16460 Mar 05 05:35	10° Ƴ 58'19	
retrograde	16459 May 07 19:48	21° Ⅱ 51'54			16460 Mar 16 03:34	0°8	
asc. node	16459 May 13 18:44	19° Ⅲ 34'48		evening max el	16460 Apr 06 11:13	28° 8 05'38	27°10'39
evening set	16459 May 14 02:25	19° Ⅱ 19'24			16460 Apr 08 12:50	0°II	
min. Earth dist.	16459 May 18 04:16	15° Ⅱ 04'53	0.66967 AU	retrograde	16460 Apr 19 23:31	5° Ⅱ 37'41	
inferior conj	16459 May 20 00:10	12° I I50'26	1°47'13	evening set	16460 Apr 26 13:58	3° I 106'50	
minimum elong	16459 May 19 22:01		1°45'58	asc. node	16460 Apr 29 15:55	0° П 16'48	
morning rise	16459 May 25 18:35	7° Ⅱ 07'38			16460 Apr 29 22:16	30°R 8	
direct	16459 May 28 22:52	6° Ⅱ 10′38		min. Earth dist.	16460 Apr 30 11:08	29° 8 25'18	0.65336 AU
morning max el	16459 Jun 04 10:46	9° П 37'23	18°29'00	inferior conj	16460 May 02 19:43	26° 8 46'15	
morning max ci	1073/Juli 04 10.40) H 3143	10 27 00	microi conj	10700 Iviay 02 17.43	20 04013	U 313 4

minimum elong	16460 May 02 18:15	26° 8 50'23	0°56'32	transit begin	16461 Apr 16 02:42	10° 8 28'42	
morning rise	16460 May 09 00:14	21° 8 16'24	0 30 32	transit end	16461 Apr 16 08:31	10° 8 13'55	
direct	16460 May 11 19:02	20° 8 35'00		asc. node	16461 Apr 16 13:09	10° 8 02'12	
morning max el	16460 May 18 02:08	23° 8 50'38	17°59'06	morning rise	16461 Apr 22 22:49	5° 8 07'23	
morning man er	16460 May 23 04:20	0°Ⅱ	1, 0, 00	direct	16461 Apr 25 09:13	4° 8 38'34	
desc. node	16460 Jun 01 06:17	14° ∏ 05'24		morning max el	16461 May 01 19:41	7° 8 54'57	17°46'34
morning set	16460 Jun 05 05:21	20° ∏ 34'04		morning must er	16461 May 16 14:53	0°II	1, 1001
morning sec	16460 Jun 11 00:18	0.8e		morning set	16461 May 18 06:27	2° ∏ 49'40	
		¥ -		desc. node	16461 May 19 03:12	4° Ⅱ 18'37	
superior conj	16460 Jun 19 14:38	13° © 44'15	-1°56'43		,		
minimum elong	16460 Jun 19 06:33	13° © 12'21	1°56'45	superior conj	16461 May 30 20:46	24° Ⅱ 00'48	-1°25'50
max. Earth dist.	16460 Jun 22 23:46	19° © 03'00	1.45790 AU	minimum elong	16461 May 30 13:02	23° II 29'13	1°25'32
	16460 Jun 30 00:50	$0^{\circ}\Omega$		8	16461 Jun 03 13:29	0° ©	
evening rise	16460 Jul 05 16:55	8° Ω 43'47		max. Earth dist.	16461 Jun 05 18:46	3° © 32'46	1.44837 AU
greatest brilliancy	16460 Jul 19 02:34	28° Ω 59'56	-0.7m	evening rise	16461 Jun 15 03:17	18° © 07'57	
· ·	16460 Jul 19 19:00	0° m			16461 Jun 22 23:41	$0^{\circ}\Omega$	
asc. node	16460 Jul 26 15:16	9° m 27'01		asc. node	16461 Jul 13 12:05	27° Ω 45'56	
evening max el	16460 Jul 30 21:37	14° m 19'44	19°31'38	evening max el	16461 Jul 13 23:27	28° Ω 14'42	20°33'12
retrograde	16460 Aug 07 02:19	18° mp 20'10		•	16461 Jul 15 21:15	o∘ m y	
evening set	16460 Aug 10 19:25	17° m/00'24		retrograde	16461 Jul 22 01:23	2° m 51'44	
inferior conj	16460 Aug 16 04:11	11° Mp 06'12	2°52'16	evening set	16461 Jul 26 05:10	1° mp 13'51	
minimum elong	16460 Aug 16 05:45	11° m 01'03	2°51'47	_	16461 Jul 27 13:38	30° ₽ Ω	
min. Earth dist.	16460 Aug 17 10:05	9° m/27'15	0.67594 AU	inferior conj	16461 Jul 31 11:02	25° Ω 07'59	3°05'33
morning rise	16460 Aug 21 15:31	4°m/39'31		minimum elong	16461 Jul 31 11:42	25° Ω 05'40	3°05'07
direct	16460 Aug 27 12:07	2°m,07'33		min. Earth dist.	16461 Aug 01 03:12	24° Ω 12′23	0.68593 AU
desc. node	16460 Aug 28 04:27	2° m 09'23		morning rise	16461 Aug 05 17:56	18° Ω 44'48	
morning max el	16460 Sep 08 15:34	9° m 22'55	25°19'36	direct	16461 Aug 11 02:59	16° Ω 24'26	
	16460 Sep 24 23:10	0∘ ⊽		desc. node	16461 Aug 15 01:45	17° Ω 26'37	
	16460 Oct 13 14:50	0° M ₊		morning max el	16461 Aug 22 02:38	22° Ω 57'45	23°52'37
morning set	16460 Oct 14 12:29	1°M36'41			16461 Aug 28 07:33	0° m)	
max. Earth dist.	16460 Oct 18 01:19	8°M05'08	1.36368 AU		16461 Sep 18 07:01	0∘ ত	
asc. node	16460 Oct 22 16:17	16°M55'58		morning set	16461 Sep 26 05:24	13° ≏ 00'52	
				max. Earth dist.	16461 Sep 30 00:18	19° ≙ 34'15	1.38751 AU
superior conj	16460 Oct 24 11:30	20°M29'19	0°16'10		16461 Oct 05 18:29	0° M	
minimum elong	16460 Oct 24 10:31	20° M24'25	0°16'26				
	16460 Oct 29 04:21	0° ∡ 7		superior conj	16461 Oct 07 13:18	3° M 20'45	-0°17'36
evening rise	16460 Nov 01 11:41	6° ≯ ¹46'06		minimum elong	16461 Oct 07 14:32	3°M26'35	0°17'05
	16460 Nov 14 07:20	ರ°0		asc. node	16461 Oct 09 13:04	7° M 08'09	
evening max el	16460 Nov 19 01:01	5° る 45'28	19°54'05	evening rise	16461 Oct 16 12:00	20°M42'42	
desc. node	16460 Nov 24 02:07	9° ප 34'06			16461 Oct 21 07:33	0° ∡ ¹	
retrograde	16460 Nov 29 06:47	10° る 52'02		evening max el	16461 Nov 01 19:17	17° ∡ °22′11	18°55'18
evening set	16460 Dec 01 08:57	10° る 40'16		retrograde	16461 Nov 10 12:05	21° х ⁴45'36	
inferior conj	16460 Dec 10 02:36	6° る 40'40	-4°43'20	desc. node	16461 Nov 10 23:13	21° х 44'53	
minimum elong	16460 Dec 09 16:36	6° る 55'59	4°39'56	evening set	16461 Nov 12 09:33	21° ∡ ³33'55	
min. Earth dist.	16460 Dec 12 03:18	5° る 26'09	0.55040 AU	inferior conj	16461 Nov 20 16:14	17° ∡ 15'37	-3°05'00
morning rise	16460 Dec 17 23:03	2° る 30'21		minimum elong	16461 Nov 20 08:43	17° ∡ ¹28'54	3°01'34
direct	16460 Dec 23 00:38	1° る 34'09		min. Earth dist.	16461 Nov 23 14:35	15° ∡ 11'46	0.56509 AU
morning max el	16461 Jan 05 18:42	8° る 24'49	24°33'48	morning rise	16461 Nov 28 05:04	12° ∡ °31′00	
asc. node	16461 Jan 18 15:39	25° る 12'09		direct	16461 Dec 04 01:58	11° √ 09'17	
	16461 Jan 21 11:06	0° ≈		morning max el	16461 Dec 18 05:40	18° ∡ °25'51	26°13'24
morning set	16461 Jan 31 05:04	19° ≈ 20′21			16461 Dec 27 21:45	0°ප	
	16461 Feb 05 02:00	0° ∀		asc. node	16462 Jan 05 12:48	13° る 49'16	
					16462 Jan 13 19:56	0° ≈	
superior conj	16461 Feb 06 23:25		1°32'19	morning set	16462 Jan 15 16:04	3° ≈ 55′00	
minimum elong	16461 Feb 07 00:51		1°32'33				
max. Earth dist.	16461 Feb 09 04:49	9° ∺ 00'54	1.32231 AU	superior conj	16462 Jan 22 09:36	18° ≈ 47'39	1°37'46
evening rise	16461 Feb 14 10:19	20°) €01'02		minimum elong	16462 Jan 22 10:01	18° ≈ 49'58	1°38'13
	16461 Feb 19 12:32	0°Υ •••••••		max. Earth dist.	16462 Jan 23 09:51	21°≈02'40	1.31329 AU
desc. node	16461 Feb 20 02:17	1°Υ04'25			16462 Jan 27 11:52	0°) {	
	16461 Mar 10 05:14	0° 8		evening rise	16462 Jan 29 10:05	4° ₩ 05'51	
evening max el	16461 Mar 19 23:34	11° 8 17'04	27°35'18	desc. node	16462 Feb 06 22:59	20°) €51'45	
retrograde	16461 Apr 02 20:01	18° 8 48'24			16462 Feb 12 05:52	0°Υ	
evening set	16461 Apr 09 14:59	16° 8 26'02		evening max el	16462 Mar 02 08:05	23° Y ′50'02	27°28'21
min. Earth dist.	16461 Apr 13 09:28	13° 8 13'22	0.63361 AU		16462 Mar 10 22:23	0° 8	
inferior conj	16461 Apr 16 05:24	10° 8 21'48		retrograde	16462 Mar 16 08:20	1° 8 14'41	
minimum elong	16461 Apr 16 05:36	10° 8 21'18	0°06'23		16462 Mar 21 12:50	30°₹ Υ	
transit middle	16461 Apr 16 05:36	10° 8 21'18	0°06'23	evening set	16462 Mar 23 02:45	29° Ƴ 07'59	

min. Earth dist.	16462 Mar 26 21:51	26° ℃ 17'29	0.61152 AU	min. Earth dist.	16463 Mar 09 00:01	8° Y 24'02	0.58883 AU
inferior conj	16462 Mar 30 01:49	23° Y ′28′22		inferior conj	16463 Mar 12 05:05	5° Υ 54'52	
minimum elong	16462 Mar 30 04:51			minimum elong	16463 Mar 12 11:45	5° Υ 41'55	
asc. node	16462 Apr 03 10:24	19° Y ′59'03		morning rise	16463 Mar 20 05:08	1° Y 19'37	
morning rise	16462 Apr 06 10:19	18° Ƴ 32'22		asc. node	16463 Mar 21 07:41	1° Y ′08'27	
direct	16462 Apr 08 13:47	18° Ƴ 12'47		direct	16463 Mar 22 04:13	1° Y 05'46	
morning max el	16462 Apr 15 12:21	21° Y ′41'37	17°52'01	morning max el	16463 Mar 30 00:25	4° Υ ′58'52	18°16'44
C	16462 Apr 21 21:26	0°8		morning set	16463 Apr 14 16:53	29° Y ′54'59	
morning set	16462 May 01 04:12	16° 8 02'31			16463 Apr 14 17:57	0°8	
desc. node	16462 May 06 00:03	24° 8 42'27		desc. node	16463 Apr 22 20:51	15° 8 12'01	
	16462 May 08 23:59	Π $^{\circ}0$			•		
				superior conj	16463 Apr 24 05:45	17° 8 41'44	-0°11'27
superior conj	16462 May 12 02:14	5° Ⅱ 21'45	-0°48'37	minimum elong	16463 Apr 24 04:50	17° 8 37'36	0°11'43
minimum elong	16462 May 11 21:54	5° Ⅱ 03'10	0°48'30	behind sun begin	16463 Apr 23 23:45	17° 8 14'32	
max. Earth dist.	16462 May 19 09:47	17° Ⅲ 35'55	1.43259 AU	behind sun end	16463 Apr 24 09:55	18° 8 00'38	
evening rise	16462 May 25 21:39	27° Ⅱ 58'53			16463 May 01 05:42	Π °0	
	16462 May 27 04:41	0 \circ \mathfrak{s}		max. Earth dist.	16463 May 01 19:40	0° Ⅱ 59'21	1.41218 AU
	16462 Jun 16 17:13	0 $^{\circ}\Omega$		evening rise	16463 May 06 10:45	8° Ⅱ 41'20	
evening max el	16462 Jun 26 19:22	12° Ω 08'55	21°46'29		16463 May 20 05:40	0 \circ \mathfrak{s}	
asc. node	16462 Jun 30 08:57	15° Ω 15'32		evening max el	16463 Jun 09 11:02	26° © 03'33	23°06'55
retrograde	16462 Jul 05 23:52	17° Ω 29'53			16463 Jun 14 01:59	$0^{\circ}\Omega$	
evening set	16462 Jul 10 14:52	15° Ω 34'50		asc. node	16463 Jun 17 05:54	1° Ω 40'21	
inferior conj	16462 Jul 15 20:27			retrograde	16463 Jun 19 20:17	2° Ω 09'11	
minimum elong	16462 Jul 15 20:10	9° Ω 19'41	3°07'02	evening set	16463 Jun 24 22:50	29° © 58'56	
min. Earth dist.	16462 Jul 15 23:19	9° Ω 08'43	0.69107 AU		16463 Jun 24 22:21	30°ષ્	
morning rise	16462 Jul 21 01:17	3° Ω 01'35		inferior conj	16463 Jun 30 06:29	23° © 34'43	2°59'03
direct	16462 Jul 25 22:08	0° Ω 57'17		minimum elong	16463 Jun 30 05:19	23° © 38'45	2°58'18
desc. node	16462 Aug 01 23:02	4°Ω12'47		min. Earth dist.	16463 Jun 29 20:19	24°509'56	0.69127 AU
morning max el	16462 Aug 04 15:21	6° Ω 40'40	22°23'52	morning rise	16463 Jul 05 11:42	17° © 25'26	
	16462 Aug 22 16:52	0° m/y		direct	16463 Jul 09 20:30	15°539'39	
morning set	16462 Sep 06 23:25	23° m/27'08		morning max el	16463 Jul 18 08:23	20°532'44	21°01'09
E d E d	16462 Sep 10 23:12	0° Ω	1 41127 ATT	desc. node	16463 Jul 19 20:16	22°506'11	
max. Earth dist.	16462 Sep 12 01:29	1° ≏ 49'55	1.41136 AU		16463 Jul 26 07:22	0° N	
superior conj	16462 Sep 19 22:12	15° ≏ 26'53	0°54'28	morning set	16463 Aug 15 21:03 16463 Aug 17 18:35	0°Mp 2°Mp 56′35	
minimum elong	16462 Sep 19 22:12 16462 Sep 20 02:35	15° £ 26'33		max. Earth dist.	16463 Aug 25 08:26	14° m) 58'24	1.43249 AU
asc. node	16462 Sep 26 09:48	27° £ 17'09	0 33 39	max. Earth tist.	10403 Aug 23 06.20	14 11/2024	1.43249 AU
asc. node	16462 Sep 27 20:42	0°M		superior conj	16463 Sep 01 09:58	26° m 39'05	-1°30'30
evening rise	16462 Sep 30 03:08	4°M14'58		minimum elong	16463 Sep 01 17:19	27° mg 10'08	
evening max el	16462 Oct 16 00:39	29°M44'47	18°18'35	minimum ciong	16463 Sep 03 09:17	0° ⊽	1 27 12
e vennig man er	16462 Oct 16 06:50	0° ⊼ 7	10 10 50	evening rise	16463 Sep 13 04:52	17° ≏ 12'12	
retrograde	16462 Oct 23 12:43	3° х 34′19		asc. node	16463 Sep 13 06:31	17° ₽ 19'31	
evening set	16462 Oct 25 13:43	3° х 17′58		aso. node	16463 Sep 20 11:57	0°M	
desc. node	16462 Oct 28 20:24	1° ∡ ′50′23		evening max el	16463 Sep 29 12:51	12°M43'57	18°02'18
	16462 Oct 31 11:18	30°RM		retrograde	16463 Oct 06 06:27	16°M12'15	
inferior conj	16462 Nov 02 03:43	28°M38'28	-1°23'21	evening set	16463 Oct 08 14:35	15° M 47′06	
minimum elong	16462 Nov 02 00:33	28°M45'00	1°21'33	inferior conj	16463 Oct 15 11:37	10°M47'20	0°04'46
min. Earth dist.	16462 Nov 05 09:43	25°M58'16	0.58535 AU	minimum elong	16463 Oct 15 11:47	10°M46'57	0°05'03
morning rise	16462 Nov 09 07:54	23°M17'07		transit middle	16463 Oct 15 11:47	10°M46'57	0°05'03
direct	16462 Nov 15 17:42	21°M28'28		transit begin	16463 Oct 15 08:40	10°M54'21	
morning max el	16462 Nov 30 00:32	29°M06'11	27°24'18	transit end	16463 Oct 15 14:53	10°M39'31	
	16462 Nov 30 22:11	0° ∡ 7		desc. node	16463 Oct 15 17:40	10°M32'53	
	16462 Dec 21 19:10	5°0		min. Earth dist.	16463 Oct 18 14:18	7° ™ 50′20	0.60815 AU
asc. node	16462 Dec 23 09:55	2° る 59'28		morning rise	16463 Oct 22 05:54	4°M56'06	
morning set	16462 Dec 31 00:12	18° る 17'08		direct	16463 Oct 28 21:59	2°M43'56	
	16463 Jan 05 08:21	0° ≈		morning max el	16463 Nov 12 03:10	10°M36'01	27°57'02
					16463 Nov 27 07:10	0° ∡	
superior conj	16463 Jan 06 20:59	3° ≈ 25′07	1°37'08	asc. node	16463 Dec 10 06:58	22° ∡ °34′08	
minimum elong	16463 Jan 06 20:21	3° ≈ 21'33	1°37'41		16463 Dec 14 00:05	0°ಕ	
max. Earth dist.	16463 Jan 06 17:18	3°≈04'31	1.30965 AU	morning set	16463 Dec 15 03:36	2° る 22'39	
evening rise	16463 Jan 13 15:23	18° ≈ 22'17		max. Earth dist.	16463 Dec 20 23:35	14° る 59'05	1.31163 AU
	16463 Jan 19 07:16	0° ∀				—	
desc. node	16463 Jan 24 19:45	10°) € 12'10		superior conj	16463 Dec 22 07:45	17°る57'50	1°30'27
	16463 Feb 07 06:22	0°Υ 5° 00 22150	0.004.000	minimum elong	16463 Dec 22 06:11	17° る 49'05	1°30'57
evening max el	16463 Feb 12 10:09	5°Υ32'58	26°46'23		16463 Dec 27 17:44	0°≈	
retrograde	16463 Feb 26 11:03	12° Υ 46'59		evening rise	16463 Dec 29 00:18	2°≈46'28	
evening set	16463 Mar 04 21:59	11° Y ′02'53		desc. node	16464 Jan 11 16:35	28° ≈ 56'16	

	16464 Jan 12 08:30	0° \		retrograde	16465 Jan 19 02:50	3° ¥ 13'01	
evening max el	16464 Jan 25 04:08	16° ¥ 23′28	25°31'19	evening set	16465 Jan 23 21:53	2°\dagger23'16	
retrograde	16464 Feb 08 01:52	23°\(\frac{1}{2}\)23'14	23 31 17	evening set	16465 Jan 29 00:46	30°R≈	
evening set	16464 Feb 13 21:11	22°\(\)06'18		min. Earth dist.	16465 Jan 30 02:36	29° ≈ 22'45	0.55244 AU
min. Earth dist.	16464 Feb 18 17:00	19° ¥ 25′09	0.56817 AU	inferior conj	16465 Jan 31 21:56	28°≈18'29	
inferior conj	16464 Feb 21 12:00	17°) 32'45		minimum elong	16465 Feb 01 05:25	28°≈07'23	
minimum elong	16464 Feb 21 21:22	17°) 17'00		morning rise	16465 Feb 09 14:35	24°≈22'34	0 0 . 10
morning rise	16464 Mar 01 00:26	13° ¥ 18'39	. 20 .0	direct	16465 Feb 12 01:43	24°≈07'17	
direct	16464 Mar 03 00:38	13° ¥ 06'34		asc. node	16465 Feb 22 02:18	28° ≈ 41'07	
asc. node	16464 Mar 07 04:59	14° ¥ 02'12		morning max el	16465 Feb 22 18:04	29° ≈ 18'17	20°11'27
morning max el	16464 Mar 12 03:43	17°) 34'51	19°02'34	8	16465 Feb 23 10:44	0° ∀	
5 5	16464 Mar 21 02:28	0° Υ		morning set	16465 Mar 12 21:41	28°) 48'33	
morning set	16464 Mar 28 15:52	14° Ƴ 13'41		3	16465 Mar 13 11:39	0° Υ	
Ü	16464 Apr 05 16:59	0°B					
	1			superior conj	16465 Mar 20 14:34	14° Y ′32'58	0°49'42
superior conj	16464 Apr 06 03:17	0° 8 49'14	0°21'56	minimum elong	16465 Mar 20 16:56	14° Ƴ 44'54	0°49'13
minimum elong	16464 Apr 06 04:38	0° 8 55'42	0°21'26	max. Earth dist.	16465 Mar 26 09:03	25° Ƴ 48'43	1.36674 AU
desc. node	16464 Apr 08 17:37	5° 8 43'37		desc. node	16465 Mar 26 14:21	26° Y 13'46	
max. Earth dist.	16464 Apr 13 02:05	13° 8 40'24	1.38943 AU		16465 Mar 28 14:53	0°B	
evening rise	16464 Apr 16 21:14	20° 8 19'09		evening rise	16465 Mar 30 03:05	2° 8 45'13	
C	16464 Apr 22 16:45	Π°		C	16465 Apr 15 18:00	Π°	
	16464 May 13 07:55	0° ©		evening max el	16465 May 04 14:27	23° Ⅱ 53'44	25°43'13
evening max el	16464 May 22 00:50	9° © 59'18	24°28'14	C	16465 May 12 16:22	0 \circ \odot	
retrograde	16464 Jun 02 13:17	16°543'09		retrograde	16465 May 17 01:46	1°505'18	
asc. node	16464 Jun 03 02:55	16°5541'47		asc. node	16465 May 21 00:00	0°503'13	
evening set	16464 Jun 08 03:24	14° 5 20'49			16465 May 21 02:21	30°RⅡ	
min. Earth dist.	16464 Jun 12 16:01	9° © 09'16	0.68661 AU	evening set	16465 May 23 02:52	28° Ⅱ 34'59	
inferior conj	16464 Jun 13 15:11	7° 9 51'27	2°40'01	min. Earth dist.	16465 May 27 08:14	24° Ⅱ 00'17	0.67718 AU
minimum elong	16464 Jun 13 13:20	7° © 57'41	2°39'01	inferior conj	16465 May 28 20:34	22° Ⅱ 04'36	2°09'57
morning rise	16464 Jun 18 23:23	1° 9 51'24		minimum elong	16465 May 28 18:23	22° Ⅱ 11'35	2°08'45
direct	16464 Jun 22 20:36	0°ള25'06		morning rise	16465 Jun 03 10:27	16° Ⅱ 15'09	
morning max el	16464 Jun 30 07:59	4° © 34'53	19°50'03	direct	16465 Jun 06 20:46	15° Ⅱ 07'49	
desc. node	16464 Jul 05 17:27	10°549'04		morning max el	16465 Jun 13 14:50	18° Ⅱ 46'14	18°53'58
	16464 Jul 19 03:58	$0^{\circ}\Omega$		desc. node	16465 Jun 22 14:34	0°508'30	
morning set	16464 Jul 26 23:44	11° Ω 52'42			16465 Jun 22 12:12	0ಂಣ	
max. Earth dist.	16464 Aug 06 22:00	28° Ω 53'01	1.44864 AU	greatest brilliancy	16465 Jun 27 00:21	6° 5 641'17	-0.8m
	16464 Aug 07 14:55	0° m y		morning set	16465 Jul 06 09:36	21°907'06	
	-			-	16465 Jul 12 03:04	$0^{\circ}\Omega$	
superior conj	16464 Aug 11 22:15	6° Mp 52'52	-1°59'29	max. Earth dist.	16465 Jul 20 16:41	13° Ω 19'56	1.45815 AU
minimum elong	16464 Aug 12 05:39	7° m 22'40	1°59'17				
evening rise	16464 Aug 25 11:58	29° m 20'33		superior conj	16465 Jul 22 14:44	16° Ω 20′01	-2°13'50
	16464 Aug 25 21:17	0∘ ⊽		minimum elong	16465 Jul 22 16:43	16° Ω 27'44	2°14'18
asc. node	16464 Aug 30 03:14	7° ≙ 10'30			16465 Jul 31 06:31	0° m)	
evening max el	16464 Sep 12 03:46	26° ≙ 08'24	18°04'51	evening rise	16465 Aug 06 19:32	10° m 29'05	
retrograde	16464 Sep 18 12:59	29° ≏ 28'54		asc. node	16465 Aug 16 23:59	26° Mp 45'26	
evening set	16464 Sep 21 05:33	28° ≏ 51'24			16465 Aug 19 03:05	0∘ ত	
inferior conj	16464 Sep 27 12:04	23° ≏ 33'32	1°13'59	evening max el	16465 Aug 26 17:59	9° ≏ 49'40	18°25'12
minimum elong	16464 Sep 27 13:57	23° ≏ 28'29	1°13'31	retrograde	16465 Sep 02 04:08	13° ≏ 15'44	
min. Earth dist.	16464 Sep 30 04:48	20° ₽ 39'52	0.63078 AU	evening set	16465 Sep 05 05:45	12° ≏ 23′08	
desc. node	16464 Oct 01 14:58	19° ≙ 14'55		inferior conj	16465 Sep 11 01:10	6° ₽ 49'34	2°04'37
morning rise	16464 Oct 03 20:09	17° ≏ 21'56		minimum elong	16465 Sep 11 03:28	6° ≙ 42'40	2°03'59
direct	16464 Oct 10 12:11	14° ≙ 53'33		min. Earth dist.	16465 Sep 13 04:53	4° ≙ 15'59	0.65119 AU
morning max el	16464 Oct 24 11:17	22° ₽ 51'18	27°50'58	morning rise	16465 Sep 16 23:50	0° ჲ 26'32	
	16464 Oct 30 19:51	0° M .			16465 Sep 17 13:26	30°R, Mp	
	16464 Nov 19 13:25	0° ∡ ¹		desc. node	16465 Sep 18 12:17	29° m 20'54	
asc. node	16464 Nov 26 03:57	12° ∡ ¹25'37		direct	16465 Sep 23 10:45	27° m 50'27	
morning set	16464 Nov 27 23:57	16° ₹ 05'43			16465 Sep 29 23:58	0∘ 亚	
max. Earth dist.	16464 Dec 03 00:58	26° х ³38′15	1.31928 AU	morning max el	16465 Oct 06 22:21	5° ≙ 43'09	27°11'03
	16464 Dec 04 14:17	8°0			16465 Oct 25 13:19	0° M	
				morning set	16465 Nov 11 10:35	29°M20'31	
superior conj	16464 Dec 05 15:55	2° る 19'53	1°17'38		16465 Nov 11 18:41	0° ∡ 7	
minimum elong	16464 Dec 05 13:42	2° る 07'46	1°17'59	asc. node	16465 Nov 13 00:52	2° ∡ °28'35	
evening rise	16464 Dec 12 10:54	17° る 13'26		max. Earth dist.	16465 Nov 15 18:11	7° ∡ 757'58	1.33259 AU
	16464 Dec 18 15:23	0° ≈					
desc. node						1.60 705144	
	16464 Dec 28 13:29	16° ≈ 50'47		superior conj	16465 Nov 19 19:19	16° ∡ 25'44	0°58'35
evening max el	16464 Dec 28 13:29 16465 Jan 05 15:05	26° ≈ 31'49	23°53'26	superior conj minimum elong	16465 Nov 19 19:19 16465 Nov 19 16:57	16° ∡ 13'11	0°58'35 0°58'48
evening max el			23°53'26				

evening rise	16465 Nov 26 21:23	1° る 38'47		evening rise	16466 Nov 11 05:48	15° ∡ 757'59	
evening rise	16465 Dec 12 13:20	0°≈		evening rise	16466 Nov 18 07:20	0°ਰ	
desc. node	16465 Dec 15 10:26	3° ≈ 38'03		evening max el	16466 Nov 29 21:25	16° පි 47'28	20°37'59
evening max el	16465 Dec 18 01:33	6°≈26'53	22°10'01	desc. node	16466 Dec 02 07:26	18° ප 56'13	
retrograde	16465 Dec 30 16:04	12° ≈ 40'45		retrograde	16466 Dec 11 02:12	22° ට 21'03	
evening set	16466 Jan 03 04:41	12° ≈ 13'13		evening set	16466 Dec 13 12:44	22° る 06'26	
inferior conj	16466 Jan 11 16:12	8° ≈ 22'10	-6°02'20	inferior conj	16466 Dec 22 07:30	18° る 13'32	-5°27'26
minimum elong	16466 Jan 11 15:26	8° ≈ 23'14	6°01'48	minimum elong	16466 Dec 21 22:50	18° る 26'05	5°25'10
min. Earth dist.	16466 Jan 11 08:04	8° ≈ 33'32	0.54432 AU	min. Earth dist.	16466 Dec 23 13:31	17° る 30'04	0.54547 AU
morning rise	16466 Jan 20 03:05	4° ≈ 34'51		morning rise	16466 Dec 30 08:43	14° る 16'44	
direct	16466 Jan 23 11:59	4° ≈ 09'36		direct	16467 Jan 03 19:54	13° る 33'47	
morning max el	16466 Feb 04 17:17	10° ≈ 04'25	21°43'01	morning max el	16467 Jan 17 04:46	20° る 07'09	23°30'29
asc. node	16466 Feb 08 23:35	14° ≈ 49'38			16467 Jan 25 10:04	0° ≈	
	16466 Feb 18 13:38	0° ∀		asc. node	16467 Jan 26 20:49	2° ≈ 09'00	
morning set	16466 Feb 25 07:32	13°) 30′52		morning set	16467 Feb 09 19:17	28° ≈ 14′29	
					16467 Feb 10 14:57	0°)	
superior conj	16466 Mar 04 11:47	28°) 41′53	1°11'14				
minimum elong	16466 Mar 04 14:15	28°) ₹ 54'45	1°10'58	superior conj	16467 Feb 16 15:58	13°) €07'49	1°26'25
	16466 Mar 05 02:46	0 ° $\mathbf{\gamma}$		minimum elong	16467 Feb 16 17:53	13° ∺ 18′10	1°26'28
max. Earth dist.	16466 Mar 08 20:35	7° Y 39'29	1.34629 AU	max. Earth dist.	16467 Feb 19 15:19	19° ∺ 29'20	1.32969 AU
evening rise	16466 Mar 13 00:46	15° Ƴ 49'13		evening rise	16467 Feb 24 10:54	29° ∺ 22'53	
desc. node	16466 Mar 13 11:03	16° Ƴ 38′02			16467 Feb 24 18:23	0 ° $\mathbf{\Upsilon}$	
	16466 Mar 20 21:16	9° 8		desc. node	16467 Feb 28 07:46	6° Y 52′26	
	16466 Apr 10 06:10	Π $^{\circ}0$			16467 Mar 13 23:49	9° 8	
evening max el	16466 Apr 17 04:08	7° Ⅱ 38'52	26°44'30	evening max el	16467 Mar 30 17:16	21° 8 05'27	27°24'34
retrograde	16466 Apr 30 08:52	15° Ⅱ 06'53		retrograde	16467 Apr 13 09:46	28° 8 39'00	
evening set	16466 May 06 19:21	12° Ⅱ 34′04		evening set	16467 Apr 20 02:42	26° 8 10'30	
asc. node	16466 May 07 21:09	11° Ⅱ 38′20		min. Earth dist.	16467 Apr 23 22:15	22° 8 42'07	0.64532 AU
min. Earth dist.	16466 May 10 18:56	8° Ⅱ 34'16	0.66324 AU	asc. node	16467 Apr 24 18:20	21° 8 48'53	
inferior conj	16466 May 12 20:24	6° Ⅱ 08'00	1°27'47	inferior conj	16467 Apr 26 12:05	19° 8 55'44	0°32'17
minimum elong	16466 May 12 18:26	6° Ⅱ 13'49	1°26'36	minimum elong	16467 Apr 26 11:11	19° 8 58'08	0°31'31
morning rise	16466 May 18 18:46	0° ∏ 30'43		morning rise	16467 May 02 21:48	14° 8 32'24	
	16466 May 19 22:09	30° ₹8		direct	16467 May 05 12:48	13° 8 56'53	
direct	16466 May 21 18:58	29° 8 40'39		morning max el	16467 May 11 20:25	17° 8 11'28	17°51'38
	16466 May 23 16:24	0°II			16467 May 21 06:49	0°II	
morning max el	16466 May 28 03:44	3° Ⅱ 00'51	18°14'17	desc. node	16467 May 27 08:31	9° ∏ 58'58	
desc. node	16466 Jun 09 11:34	19° Ⅱ 54'11		morning set	16467 May 29 03:31	12° Ⅱ 58′26	
	16466 Jun 15 19:54	0.ee			16467 Jun 08 11:27	0ං ව	
morning set	16466 Jun 16 16:57	1° 5 24'09			16467 1 11 10 40	50610100	1044154
	16466 1 1 01 22 56	25052405	2000127	superior conj	16467 Jun 11 18:49	5°519'00	
superior conj	16466 Jul 01 23:56	25°934'05		minimum elong	16467 Jun 11 10:15	4°5944'49	1°44'43
minimum elong max. Earth dist.	16466 Jul 01 18:20	25°©12'09 27°©59'28		max. Earth dist.	16467 Jun 16 08:53	12°535'11	1.45462 AU
max. Earth dist.	16466 Jul 03 13:13	27° ω 39'28	1.46013 AU	evening rise	16467 Jun 27 15:23	0° Ω 02'42	
evening rise	16466 Jul 04 20:09 16466 Jul 18 02:12	20° Ω 35'49		greatest brilliancy	16467 Jun 27 14:40 16467 Jul 12 09:43	0° Ω 22° Ω 09'18	-0.6m
evening rise	16466 Jul 24 03:45	0° m)		greatest offinancy	16467 Jul 18 00:44	0° m	-0.0111
greatest brilliancy	16466 Jul 28 19:57	0 ių 7°Mp09'27	-0.8m	asc. node	16467 Jul 21 17:32	رانا 4° الله 39'10	
asc. node	16466 Aug 03 20:45	15° Mp 57'47	-0.6111	evening max el	16467 Jul 24 09:57	7° m 34'29	19°56'11
evening max el	16466 Aug 10 04:40	23° Mp 40'14	19°02'43	retrograde	16467 Jul 31 23:07	11° m) 49'47	17 30 11
retrograde	16466 Aug 17 00:27	27° m) 24'58	17 02 43	evening set	16467 Aug 04 20:34	10° m/22'28	
evening set	16466 Aug 20 11:38	26° Mp 15'28		inferior conj	16467 Aug 10 03:46	4° m 23'06	2°59'22
inferior conj	16466 Aug 25 23:22	20° m/28'14	2°38'56	minimum elong	16467 Aug 10 04:58	4° Mp 19'02	2°58'54
minimum elong	16466 Aug 26 01:20	20° m/21'55	2°38'23	min. Earth dist.	16467 Aug 11 03:49	3° Mp 01'53	0.68069 AU
min. Earth dist.	16466 Aug 27 13:13	18° Mp 26'52	0.66805 AU	min. Darm dige.	16467 Aug 13 13:12	30°R Ω	0.00009110
morning rise	16466 Aug 31 14:14	14° Mp 01'05	0.00000 110	morning rise	16467 Aug 15 12:54	27° Ω 57'13	
desc. node	16466 Sep 05 09:35	11° mp 32'04		direct	16467 Aug 21 04:38	25° Ω 29'25	
direct	16466 Sep 06 16:37	11° m/25'31		desc. node	16467 Aug 23 06:53	25° Ω 46'55	
morning max el	16466 Sep 19 10:01	18° m 59'32	26°05'25		16467 Aug 30 05:55	0° mp	
3	16466 Sep 28 18:48	0∘ ⊽	-	morning max el	16467 Sep 01 21:04	2° m/29'11	24°43'22
	16466 Oct 18 14:13	0° M		<i>3</i>	16467 Sep 22 20:50	0∘ ⊽	
morning set	16466 Oct 25 08:13	12°ML00'10		morning set	16467 Oct 07 12:49	23° ≏ 54'51	
max. Earth dist.	16466 Oct 29 01:42	19°M03'30	1.35108 AU	Ç	16467 Oct 10 22:36	0° M	
asc. node	16466 Oct 30 21:44	22°M38'36		max. Earth dist.	16467 Oct 11 01:41	0°M13'58	1.37357 AU
				asc. node	16467 Oct 17 18:30	12°M51'01	
superior conj	16466 Nov 03 15:24	0° ∡ ¹09'16	0°33'22				
minimum elong	16466 Nov 03 13:38	0° ∡ ¹00′15	0°33'33	superior conj	16467 Oct 18 00:56	13°M22'21	0°02'25
-	16466 Nov 03 13:35	0° ∡ ¹		minimum elong	16467 Oct 18 00:45	13°M21'27	0°02'45
				-			

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behind sun begin	16467 Oct 17 18:11	12°M49'30		superior conj	16468 Sep 29 20:09	25° ≏ 56'29	-0°33'01
behind sun end	16467 Oct 18 07:19	13°M53'29		minimum elong	16468 Sep 29 22:38	26° ≏ 07'59	0°32'21
evening rise	16467 Oct 26 09:50	0° ∡ °04'36			16468 Oct 02 00:30	0° M ₊	
	16467 Oct 26 08:56	0° ∡ ¹		asc. node	16468 Oct 03 15:17	3°M02'53	
evening max el	16467 Nov 12 07:49	27° ∡ ¹55'42	19°26'20	evening rise	16468 Oct 09 06:42	13°M52'16	
	16467 Nov 14 16:12	0°ჳ		•	16468 Oct 18 01:17	0° ∡ ¹	
desc. node	16467 Nov 19 04:31	2° ට 20'40		evening max el	16468 Oct 25 07:27	9° х 53′57	18°37'06
retrograde	16467 Nov 21 21:18	2° ප 43'01		retrograde	16468 Nov 02 10:33	14° ∡ °00'59	10 27 00
evening set	16467 Nov 23 19:56	2°る32'02		evening set	16468 Nov 04 09:02	13°×747'45	
evening set				=			
	16467 Nov 29 21:58	30°₹ ⋌ ¹	1002120	desc. node	16468 Nov 05 01:38	13° ∡ 36'53	2020155
inferior conj	16467 Dec 02 10:08	28° ∡ ¹25'37		inferior conj	16468 Nov 12 08:57	9° ∡ 120'37	
minimum elong	16467 Dec 02 00:38	28° ∡ ′40'59	3°59'56	minimum elong	16468 Nov 12 03:17	9° ∡ 31'17	2°18'08
min. Earth dist.	16467 Dec 04 22:01	26° ∡ ¹48'42	0.55579 AU	min. Earth dist.	16468 Nov 15 12:16	6° ≯ 59'16	0.57331 AU
morning rise	16467 Dec 10 03:17	24° ∡ 101′26		morning rise	16468 Nov 19 18:20	4° ∡ ¹20'19	
direct	16467 Dec 15 13:54	22° х 54'31		direct	16468 Nov 25 21:52	2° ∡ ¹46'47	
morning max el	16467 Dec 29 13:14	29° ∡ ¹57'43	25°18'32	morning max el	16468 Dec 10 03:01	10° ∡ 12'28	26°47'40
	16467 Dec 29 14:11	0°ರ			16468 Dec 25 06:36	0°る	
asc. node	16468 Jan 13 18:01	20° る 21'42		asc. node	16468 Dec 30 15:10	9° る 14'22	
	16468 Jan 19 00:44	0° ≈		morning set	16469 Jan 08 17:04	27° る 23'19	
morning set	16468 Jan 25 07:03	12°≈53'29		morning sec	16469 Jan 09 22:01	0°≈	
morning set	10408 Jan 23 07.03	12 ~33 29			10409 Jan 09 22.01	0 ~	
aumorior aoni	16468 Feb 01 00:34	27° ≈ 42'56	1°35'22	aumorior comi	16469 Jan 15 11:31	12° ≈ 21'22	1°38'13
superior conj				superior conj			
minimum elong	16468 Feb 01 01:35	27°≈48'32	1°35'42	minimum elong	16469 Jan 15 11:29	12°≈21'11	1°38'44
	16468 Feb 02 01:25	0° ∀		max. Earth dist.	16469 Jan 15 23:38	13° ≈ 29'08	1.31115 AU
max. Earth dist.	16468 Feb 02 17:07	1° ∺ 26′20	1.31782 AU	evening rise	16469 Jan 22 08:54	27° ≈ 29'05	
evening rise	16468 Feb 08 06:28	13° ¥ 18′16			16469 Jan 23 13:35	0° ∀	
desc. node	16468 Feb 15 04:30	26° 米 51′24		desc. node	16469 Feb 01 01:15	16° ∺ 28'30	
	16468 Feb 16 21:55	0° Y			16469 Feb 09 07:03	0 ° Υ	
	16468 Mar 08 07:32	9° 8		evening max el	16469 Feb 22 10:37	16° Ƴ 15'37	27°14'53
evening max el	16468 Mar 12 04:16	4° 8 01'57	27°36'32	retrograde	16469 Mar 08 11:34	23° Y 35'30	
retrograde	16468 Mar 26 03:14	11° 8 31'43		evening set	16469 Mar 15 03:35	21° Y 38'07	
evening set	16468 Apr 01 22:27	9° 8 15'15		min. Earth dist.	16469 Mar 19 00:52	18° Ƴ 53'46	0.60178 AU
min. Earth dist.	16468 Apr 05 16:39	6° 8 12'47	0.62434 AU	inferior conj	16469 Mar 22 06:10	16° Ƴ 11'19	-2°00'42
inferior conj	16468 Apr 08 16:33	3° B 20'08		minimum elong	16469 Mar 22 10:42	16° Ƴ 01'44	1°59'01
minimum elong	16468 Apr 08 17:49	3° 8 17'05		asc. node	16469 Mar 28 12:50	11° Y '51'55	1 37 01
asc. node	16468 Apr 10 15:34	1° 8 30'17	0 37 13	morning rise	16469 Mar 29 21:20	11° Y 23'31	
asc. node	-	1 3 0° ₹ Υ		direct		11° Υ 06'47	
	16468 Apr 12 11:31				16469 Mar 31 22:31		10000102
morning rise	16468 Apr 15 16:11	28° Y 13'10		morning max el	16469 Apr 08 05:07	14° Y 44'44	18°00'03
direct	16468 Apr 17 23:17	27° Y ′48'50			16469 Apr 18 17:02	0°8	
	16468 Apr 23 06:44	0° 8		morning set	16469 Apr 23 18:57	9° 8 12'39	
morning max el	16468 Apr 24 13:59	1° 8 09'30	17°46'36	desc. node	16469 Apr 30 02:17	20° 8 44'16	
morning set	16468 May 10 14:10	25° 8 40'40					
desc. node	16468 May 13 05:26	0° Ⅱ 17'23		superior conj	16469 May 04 01:51	27° 8 49'36	-0°32'34
	16468 May 13 01:27	$\Pi^{\circ}0$		minimum elong	16469 May 03 23:05	27° 8 37'25	0°32'36
					16469 May 05 07:42	Π $^{\circ}0$	
superior conj	16468 May 22 10:39	16° Ⅱ 02'40	-1°10'23	max. Earth dist.	16469 May 11 15:03	10° Ⅱ 42'19	1.42435 AU
minimum elong	16468 May 22 04:12	15° Ⅲ 35'48	1°10'06	evening rise	16469 May 17 04:51	19° Ⅱ 45'29	
max. Earth dist.	16468 May 29 01:57	26° Ⅲ 53'53	1.44228 AU	-	16469 May 23 18:45	0°ಅ	
	16468 May 31 00:35	0 \circ \odot			16469 Jun 14 06:11	$0^{\circ}\Omega$	
evening rise	16468 Jun 06 03:15	9° © 33'49		evening max el	16469 Jun 19 03:13	5° Ω 24'41	22°20'16
3	16468 Jun 19 18:54	$0^{\circ}\Omega$		asc. node	16469 Jun 24 11:17	9° Ω 43'42	
evening max el	16468 Jul 06 09:14	21° Ω 29'50	21°03'18	retrograde	16469 Jun 28 19:42	11° Ω 04'23	
asc. node	16468 Jul 07 14:23	22° Ω 39'18	21 03 10	evening set	16469 Jul 03 15:40	9° Ω 02'33	
				•			2905112
retrograde	16468 Jul 14 22:05	26° Ω 24'59		inferior conj	16469 Jul 08 21:52		3°05'13
evening set	16468 Jul 19 06:31	24° Ω 39'52	2005144	minimum elong	16469 Jul 08 21:12	2° Ω 45'19	3°04'37
inferior conj	16468 Jul 24 11:58	18° Ω 29'39	3°07'44	min. Earth dist.	16469 Jul 08 19:12	2° Ω 52'18	0.69178 AU
minimum elong	16468 Jul 24 12:14	18° Ω 28'43	3°07'16		16469 Jul 10 21:42	30°დ	
min. Earth dist.	16468 Jul 24 22:31	17° £ 53′00	0.68868 AU	morning rise	16469 Jul 14 02:34	26° © 29'11	
morning rise	16468 Jul 29 17:41	12° Ω 08'42		direct	16469 Jul 18 18:21	24° © 32'25	
direct	16468 Aug 03 21:40	9° Ω 54'26		desc. node	16469 Jul 27 01:25	29° © 02'10	
desc. node	16468 Aug 09 04:09	11° Ω 45′04		morning max el	16469 Jul 27 22:28	29° © 53'21	21°47'36
morning max el	16468 Aug 14 08:22	16° Ω 07'14	23°14'34		16469 Jul 28 01:07	$0^{\circ}\Omega$	
	16468 Aug 25 18:53	0° m)			16469 Aug 19 11:58	0° ™	
	16468 Sep 14 20:22	0∘ ⊽		morning set	16469 Aug 29 04:09	14° m 56'01	
morning set	16468 Sep 17 20:19	4° ₽ 55'29		max. Earth dist.	16469 Sep 04 04:20	24° m/39'39	1.42088 AU
max. Earth dist.	16468 Sep 22 00:36	11° ≏ 59'57	1.39782 AU		16469 Sep 07 09:05	0∘ <u>⊽</u>	
	- · r = · · · · · ·				T		

superior conj	16469 Sep 11 20:32	7° ≏ 40'50	-1°10'09	superior conj	16470 Aug 23 22:15	18° m) 27'17	-1°44'07
minimum elong	16469 Sep 12 02:20	8° ഫ 06'05	1°09'16	minimum elong	16470 Aug 24 06:12	19° Mp 00'06	
asc. node	16469 Sep 20 12:02	23° ჲ 09'49		· ·	16470 Aug 30 18:55	0∘ <u>v</u>	
evening rise	16469 Sep 22 16:42	27° ≙ 11'06		evening rise	16470 Sep 05 11:08	9° ≙ 49'11	
_	16469 Sep 24 05:33	0° M		asc. node	16470 Sep 07 08:46	13° ≏ 07'55	
evening max el	16469 Oct 08 16:15	22°M33'25	18°09'15		16470 Sep 17 14:37	0° M	
retrograde	16469 Oct 15 19:03	26°M12'17		evening max el	16470 Sep 22 05:57	5°M43'51	18°01'07
evening set	16469 Oct 17 22:56	25°M52'34		retrograde	16470 Sep 28 18:56	9° M 07'35	
desc. node	16469 Oct 22 22:50	22°M59'31		evening set	16470 Oct 01 06:28	8°M37'38	
inferior conj	16469 Oct 25 05:29	21°M03'50	-0°43'49	inferior conj	16470 Oct 07 20:55	3°M29'38	0°36'28
minimum elong	16469 Oct 25 03:56	21°M07'16	0°42'44	minimum elong	16470 Oct 07 21:59	3°M26'56	0°36'22
min. Earth dist.	16469 Oct 28 11:00	18° ™ 14′20	0.59494 AU	desc. node	16470 Oct 09 20:06	1°M30'08	
morning rise	16469 Nov 01 05:37	15°M28'55		min. Earth dist.	16470 Oct 10 19:49	0° M 31'47	0.61785 AU
direct	16469 Nov 07 18:51	13°M29'55			16470 Oct 11 09:11	30° ₽ Ω	
morning max el	16469 Nov 22 01:22		27°43'10	morning rise	16470 Oct 14 10:47	27° ≙ 28'17	
	16469 Nov 29 17:10	0° ∡		direct	16470 Oct 21 03:19	25° ≏ 08'28	
asc. node	16469 Dec 17 12:17	28° ∡ ³36'33			16470 Oct 31 21:37	0° M	
	16469 Dec 18 05:38	0° ろ		morning max el	16470 Nov 04 06:54	3°M04'31	27°59'10
morning set	16469 Dec 23 23:30	11° る 39'41			16470 Nov 24 05:51	0° ∡ 7	
		• • • • • • • • • • • • • • • • • • • •		asc. node	16470 Dec 04 09:18	18° ₹ 19'25	
superior conj	16469 Dec 30 22:54	26°る58'00	1°35'02	morning set	16470 Dec 08 00:12	25° ∡ ³36'42	
minimum elong	16469 Dec 30 21:51	26°る52'05	1°35'35		16470 Dec 10 02:29	0°る	
max. Earth dist.	16469 Dec 30 07:21	25° පි 30'55	1.30986 AU	max. Earth dist.	16470 Dec 13 12:09	7° る 20'48	1.31416 AU
	16470 Jan 01 07:24	0° ≈			16450 D 15 00 45	11070(151	1005147
evening rise	16470 Jan 06 16:02	11°≈50'16		superior conj	16470 Dec 15 08:47	11° る 26'51	1°25'47
	16470 Jan 15 17:47	0°){		minimum elong	16470 Dec 15 06:54	11°る16'23	1°26'13
desc. node	16470 Jan 18 22:03	5°) € 35'35	26919102	evening rise	16470 Dec 22 01:51	26°₹16'12	
evening max el	16470 Feb 04 09:33	27°) 37′13 0° °	26°18'03	JJ.	16470 Dec 23 19:38	0°≈ 24°≈ ≈00!53	
	16470 Feb 07 02:50 16470 Feb 18 09:10	0° γ 4° Υ 44'48		desc. node	16471 Jan 05 18:54 16471 Jan 09 22:26	24°≈00'53 0°) €	
retrograde evening set	16470 Feb 24 14:46	3°Υ11'52		evening max el	16471 Jan 16 23:52	8° ∺ 06'49	24051120
min. Earth dist.	16470 Feb 28 22:46	0° Υ 34'12	0.57968 AU	retrograde	16471 Jan 30 18:23	8 ★0049 15°★00'04	24 31 29
iiiii. Eartii dist.	16470 Mar 01 17:59	0 ↑ 34 12 30°R 米	0.37908 AU	evening set	16471 Feb 05 04:33	13°) 54'38	
inferior conj	16470 Mar 04 01:11	28° ¥ 18'59	-3°32'10	min. Earth dist.	16471 Feb 10 12:03	13 X 3 7 38	0.56072 AU
minimum elong	16470 Mar 04 09:17	28° H 04'12		inferior conj	16471 Feb 12 22:57	9°) 34'26	
morning rise	16470 Mar 12 07:10	23° H 52'49	3 27 10	minimum elong	16471 Feb 13 08:19	9° X 19'35	4°55'33
direct	16470 Mar 14 06:02	23°) 40'06		morning rise	16471 Feb 21 14:32	5° ¥ 29'12	1 33 33
asc. node	16470 Mar 15 10:08	23°) 44'51		direct	16471 Feb 23 17:53	5° ¥ 16'32	
morning max el	16470 Mar 22 14:00	27°) 46'33	18°33'32	asc. node	16471 Mar 02 07:27	7°) 24'44	
	16470 Mar 24 14:59	0°Υ		morning max el	16471 Mar 05 12:21	10° ¥ 01'56	19°29'00
morning set	16470 Apr 07 12:34	23° Y 18'39		C	16471 Mar 18 16:16	0° Υ	
C	16470 Apr 10 23:55	0°8		morning set	16471 Mar 22 14:49	7° Y ′45′20	
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superior conj	16470 Apr 16 13:40	10° 8 32'10	0°03'20	superior conj	16471 Mar 30 17:34	23° Y ′56'52	0°34'27
minimum elong	16470 Apr 16 13:52	10° 8 33'07	0°02'56	minimum elong	16471 Mar 30 19:30	24° Y 06'15	0°33'54
behind sun begin	16470 Apr 16 06:54	10° 8 00'45			16471 Apr 02 21:04	0° 8	
behind sun end	16470 Apr 16 20:51	11° 8 05'24		desc. node	16471 Apr 03 19:52	1° 8 47'28	
desc. node	16470 Apr 16 23:06	11° 8 15'50		max. Earth dist.	16471 Apr 06 05:37	6° 8 14'54	1.37962 AU
max. Earth dist.	16470 Apr 23 23:44	23° 8 50'16	1.40268 AU	evening rise	16471 Apr 09 22:13	12° 8 51'40	
	16470 Apr 27 14:37	Π °0			16471 Apr 20 06:12	Π °0	
evening rise	16470 Apr 28 03:09	0° Ⅱ 52'20			16471 May 12 05:00	0	
	16470 May 17 03:21	0 \circ		evening max el	16471 May 15 07:08	3° © 14'45	25°01'15
evening max el	16470 Jun 01 17:48	19° © 19'49	23°41'43	retrograde	16471 May 27 06:04	10° © 12'32	
asc. node	16470 Jun 11 08:15	25° © 35'36		asc. node	16471 May 29 05:17	9° © 56'28	
retrograde	16470 Jun 12 14:45	25°5542'28		evening set	16471 Jun 02 01:00	7° © 45'58	
evening set	16470 Jun 17 22:23	23°526'22		min. Earth dist.	16471 Jun 06 10:15	2°950'19	0.68316 AU
min. Earth dist.	16470 Jun 22 15:47	17°953'36	0.68994 AU	inferior conj	16471 Jun 07 15:05	1°5015'22	2°28'39
inferior conj	16470 Jun 23 07:33	16°959'34	2°52'16	minimum elong	16471 Jun 07 13:02	1°522'07	2°27'33
minimum elong	16470 Jun 23 06:04	17°504'40	2°51'24		16471 Jun 08 14:10	30°RⅡ 25°Ⅲ10/45	
morning rise	16470 Jun 28 13:45	10°954'20		morning rise	16471 Jun 13 01:23	25° Ⅱ 19'45	
direct	16470 Jul 02 17:32	9°5016'58	20020115	direct	16471 Jun 16 17:44	24° Ⅱ 01'54 27° Ⅱ 57'02	10024112
morning max el desc. node	16470 Jul 10 18:12 16470 Jul 13 22:39	13° © 50'03 17° © 18'27	20°29'15	morning max el	16471 Jun 23 21:00 16471 Jun 25 19:34	2/°Щ5/′02 0° ©	19°24'13
desc. node	16470 Jul 13 22:39 16470 Jul 23 12:00	1/°918′2/ 0°Ω		desc. node	164/1 Jun 25 19:34 16471 Jun 30 19:48	0°99 6°9918'24	
morning set	16470 Aug 08 15:35	24°Ω06'28		greatest brilliancy	16471 Jul 06 13:29	14°528'54	-0.7m
morning set	16470 Aug 08 13.33 16470 Aug 12 10:36	0° M)		greatest orillaticy	16471 Jul 16 20:17	14 328 34 0°Ω	-v. / III
max. Earth dist.	16470 Aug 12 10:36 16470 Aug 17 14:35	8°M) 10'36	1.44009 AU	morning set	16471 Jul 18 20:11	3° Ω 03'35	
man, Luitii Ulst.	101/011ug 1/ 17.33	O 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.11007 AU	morning sot	101/1341 10 20.11	2 0 603 33	

March Marc								
upone origination moding in the information of	max. Earth dist.	16471 Jul 31 06:13	22° Ω 19′39	1.45349 AU	superior conj	16472 Jul 13 12:32	7° Ω 35′08	-2°14'03
minimations [617] Aug 69 05.3 28/41/30 p. 2075.5 centing file 617/3 Aug 61 86.3 28/41/30 p. 1983.75 p. centing file 61671 Aug 62 18.6 28/41/30 p. 18/93.75 p. case, node 16472 Aug 61 18.61 p. 14% [10] 0.2 20 18/93.75 p. case, node 16472 Aug 61 16.10 p. 14% [10] 0.2 20 18/93.75 p. 18/93					minimum elong	16472 Jul 13 11:05	7° Ω 29'30	2°14'34
1677 Aug 10 6274	superior conj	16471 Aug 04 01:07	28° Ω 18′28	-2°07'48		16472 Jul 27 19:28	0° m y	
Second Georgia Georg	minimum elong	16471 Aug 04 06:53	28° Ω 41′20	2°07'55	evening rise	16472 Jul 29 05:24	2° m/ 14'13	
Second Georgia Georg		16471 Aug 05 02:40	0° m/		greatest brilliancy	16472 Aug 05 18:43	14° m 10'32	-0.8m
1647 1647	evening rise	Č				•		
esc mode 16471 Aug 25 0529 29-A3501 cevening mach 16172 Aug 12 0530 19-A3502 refrograde 16173 Aug 12 0530 29-A3502 refrograde 16174 Aug 12 0430 6-A3502 29-B3000 22100 recenting ear 16471 Sep 15 0131 10-A2552 127300 16472 Sep 03 1240 27000 27100 27100 16472 Sep 03 19-18 27100 27100 16472 Sep 03 19-18 27100 27100 16472 Sep 03 19-18 271000 27100 16472 Sep 03 19-18 27100 27100 27100 27100 27100 27100 27100 27100 27100 27100 27100 27100 27100 27100 27100 27100 27100 27100 27100		-				Č	-	
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cending 464 Tissery 105 21° 24° 24° 25° 25° 27° 24° 27° 28° 28° 28° 29° 29° 29° 20° 20° 20° 20° 20° 20° 20° 20° 20° 20	•	*		10 11 24	-	•		
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minimalendeng	•	•			3			
nine fact dist 1671 Sep 2 1 443 1 313-4220 0.8373 AU minerth dist 61472 Sep 16 520 2789,446 2 1050 66887 AU desc. node 16472 Sep 12 1424 2 1230 10°A1211 desc. node 16472 Sep 12 1424 2 1280 2°B98364 morning max el 16471 Oct 10 2 1240 0°B.2721 2°83772 16472 Sep 12 1424 2 1280 2°B98379 6671 Nov 12 051249 0°B. 16472 Sep 20 03.60 2°B98790 16472 Sep 20 03.60 2°B98790 morning set of 16471 Nov 12 1616 8°S-871631 12418 AU 16472 Nov 2 2245 2°B0901 max. Earth dist 16471 Nov 2 1611 8°S-87131 12418 AU 16472 Nov 2 2245 0°P-2012 superior conj 16471 Nov 2 1512 2°S-84259 1°D0 max. Earth dist 16472 Nov 2 2.042 0°P-2012 133985 AU evening rise 16471 Dec 0 1422 0°E superior conj 16471 Nov 2 1512 2°S-84259 1°D0 minimum dong 16471 Dec 0 1422 0°E superior conj 16471 Dec 0 1422 0°E 16472 Nov 2 1335 9°89379 0°E desc. node 16471		•			minimum elong		-	2°20'23
Manuming incoming i	minimum elong	16471 Sep 21 05:24	16° ≏ 23'45	1°37'00		16472 Sep 03 19:16	30°₽,₩	
moning ring 16471 Sep 2 17 207.06 10° Δ121 0° Δ121 condition 61671 Cot 21 212.02 7.6912 condition 61671 Cot 12 1640 15° Δ372 27° 3745 moming max el 16472 Sep 30 10.48 0° L 28° 199 28° 45° 199 28° 42° 199 28° 50° 199 28° 50° 199 28° 50° 122 28° 50° 199 28° 50° 122 28° 50° 199 38° 50° 199 38° 50° 199 38° 50° 199 38° 50° 199 38° 50° 199 38° 50° 199 38° 50° 199 38° 50° 199 38° 50° 199 38° 50° 199 38° 50° 199 38° 50° 199 38° 50° 199 38° 50° 199 38° 50° 199 38° 50° 199 38° 50° 199	min. Earth dist.	16471 Sep 23 14:43	13° ≏ 42'40	0.63973 AU	min. Earth dist.	16472 Sep 05 18:30	27° Mp 34'46	0.65887 AU
direct 16471 Oct 13 21:26 79.3912 drowning mark 16471 Oct 12 9 12:49 79.3912 27.3453 morning max of 16472 Sep 3 0.1648 № 1940 9 26*4379 26*4379	desc. node	16471 Sep 26 17:24	10° ≏ 39'53		morning rise	16472 Sep 09 15:40	23° m 30'39	
morning max el 1647 Oct 71 1640 S'\$\text{\$\text{\$\frac{1}{2}\$} \ \ \text{\$\text{\$\text{\$\text{\$\frac{1}{2}\$}} \ \ \ \$\text{	morning rise	16471 Sep 27 07:06	10° ≙ 12'11		desc. node	16472 Sep 12 14:42	21°M 36'46	
1647 10 10 10 10 10 10 10 1	direct	16471 Oct 03 21:26	7° ₽ 39'12		direct	16472 Sep 15 23:27	20° m 53'29	
1647 10 10 10 10 10 10 10 1	morning max el	16471 Oct 17 16:40	15° ≏ 37'24	27°37'45	morning max el	16472 Sep 29 03:56	28° m 40'09	26°45'39
16471 Nov 16 22-56 0-8 16471 Nov 21 1647 18-25	Z .	16471 Oct 29 12:49			Ç	=		
Section 16471 Nov 21 1614						1		
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max. Earth dist. 16471 Nov 26 10.13 18°875113 132418 AU max. Earth dist. 16472 Nov 07 22.34 0°.9° 23898 AU superior conj 16471 Nov 29 12.51 25°84259 1°1020 minimum 16471 Nov 12 15.47 9°.8°3957 0°4838 evening rise 16471 Dec 10 61.23 10°5475 superior conj 16472 Nov 12 15.47 9°.8°3957 0°4838 des. node 16471 Dec 10 61.55 0°54259 des. node 16472 Nov 12 20.64 20°54 0°4878 devening max cl 16471 Dec 20 09.23 18°80500 23°90904 evening max cl 16472 Dec 20 01.24 22°80707 21°836 evening max cl 16471 Dec 20 09.22 18°80500 23°90904 evening max cl 16472 Dec 20 02.64 20°82 28°80701 21°8349 evening set 16472 Jan 11 1412 24°84534 18°8253 8°8318 18°8256 18°8250 18°8250 18°8253 18°8253 18°8253 18°8253 18°8253 18°8253 18°8253 18°8253 18°8253 18°8253 18°8253 18°8253 18°8253					=			
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Superior conj 16471 Nov 29 12.51 25% 74259 191020 16471 Nov 29 12.51 25% 74259 191020 16471 Nov 29 12.51 25% 742821 048489 16471 Nov 19 12.224 25% 76478 16472 Nov 19 12.244 25% 76478 25% 7	max. Earth dist.	164/1 Nov 26 10:13	18°×'51'13	1.32418 AU				
minimum elong 16471 Nov 29 12:51 25° \$30°16 1°10'37 superior conj 16472 Nov 12 13:47 9°3'397 0°48'38 0°48'38 0°46'47 Nov 12 13:35 9°3'28'17 0°48'49 0°4					max. Earth dist.	16472 Nov 07 22:54	0°×'01'22	1.33985 AU
Part		16471 Nov 29 15:12						
evening rise 16471 Dec 06 12:36 10°S42'S9 evening rise 16472 Nov 12 20:24 25° R0547 7 desc. node 16471 Dec 16 05:51 10°S2 48 ces. node 16472 Dec 02 31 547 11°ss2931 desc. node 16472 Dec 09 22:54 25° R05473 7 evening max 16472 Jan 11 14:12 24°ss3634 retrograde 16472 Jan 15 20:20 23°ss47721 retrograde 16472 Jan 12 19:46 20°ss4218 0.54791 AU evening max el 16472 Dec 12 0:05 0°ss	minimum elong	16471 Nov 29 12:51	25° ∡ ′30′16	1°10'37	superior conj	16472 Nov 12 15:47	9° ∡ ³39'57	0°48'38
Gesc. node		16471 Dec 01 14:27	0°₹		minimum elong	16472 Nov 12 13:35	9° ∡ ′28′21	0°48'49
desc. node 16471 Dec 23 15:47 11°≈2931 desc. node 16472 Dec 09 12:44 27°E41'37 cvening max el 16471 Dec 09 12:45 28°E6'0701 21°28'49' retrograde 16472 Jan 11 14:12 24°≈36'34 cvening max el 16472 Dec 12 01:05 4°≈40'427 cretorgane 16472 Jan 11 14:12 24°≈36'34 cretorgane 16472 Dec 22 00:15 4°≈40'427 cretorgane 16472 Jan 24 01:07 20°≈80'12 5°54'08 minimum clong 16473 Jan 02 11:28 0°≈80'13 5°53'88 minimum clong 16472 Dec 10 16:20	evening rise	16471 Dec 06 12:36	10° る 42'59		evening rise	16472 Nov 19 22:24	25° ∡ 05'47	
evening max el 16471 Dec 29 09:22 18°≈05'00 23°09'04 evening max el 16472 Ec 09 22:54 28°E07'01 21°28'49'1 retrograde 16472 Ian 15 20:20 23°≈85'721 retrograde 16472 Lan 15 20:20 3°≈847'21 retrograde 16472 Dec 22 00:15 4°≈04'27 4°≈04'27 18°° 18°° 18°° 18°° 18°° 18°° 18°° 18°° 18°° 18°° 18°° 18°° 18° 20°° 3°≈43'47 18°° 18°° 18°2 Ian 24 05:42 19°≈45'38 5°53'16 minimum clong 16472 Ec 0 11 16:20 18°≈65'85 minimum clong 16473 Ian 02 11:23 0°55'54'18 18°53'85 minimum clong 16473 Ian 10 21:26 20°54'11 5°55'85'85 minimum clong 16472 Ec 0 11 16:20 18°≈65'85 minimum clong 16473 Ian 10 21:26 20°52'85'85'85'85'85'85'86 minimum clong 16472 Ec 0 1 16:20 21°°28'21 20°47'44 morning are 16473 Ian 10 21:26 20°50'36 20°60'36'8 18°°23'25'2 18°°24'24'24 20°°28'24'24'2 20°28'24'24'2 20°24'24'4 20°24'24'34'3 22°°27'27'24'34'3 22°°27'27'24'34'		16471 Dec 16 05:51	0° ≈			16472 Nov 22 06:45	8°0	
retrograde 16472 Jan 11 14.12 24°ss4634 retrograde 16472 Dec 22 0.155 67°se retrograde 16472 Dec 22 0.155 67°se retrograde 16472 Dec 22 0.155 67°se retrograde 16472 Dec 23 0.055 67°se retrograde 16472 Dec 23 0.055 67°se retrograde 16472 Dec 23 0.056 67°se retrograde 16473 Dec 21 0.056 retrograde 16472 Dec 23 0.056 retrograde retrog	desc. node	16471 Dec 23 15:47	11° ≈ 29'31		desc. node	16472 Dec 09 12:44	27° る 41'37	
retrograde 16472 Jan 11 14.12 24°ss4634 retrograde 16472 Dec 22 0.155 67°se retrograde 16472 Dec 22 0.155 67°se retrograde 16472 Dec 22 0.155 67°se retrograde 16472 Dec 23 0.055 67°se retrograde 16472 Dec 23 0.055 67°se retrograde 16472 Dec 23 0.056 67°se retrograde 16473 Dec 21 0.056 retrograde 16472 Dec 23 0.056 retrograde retrog	evening max el	16471 Dec 29 09:22	18° ≈ 05'00	23°09'04	evening max el	16472 Dec 09 22:54	28° පි 07'01	21°28'49
evening set 16472 Jan 12 20-20 23°≈5721 retrograde 16472 Dec 25 00:26 3°≈40427 retrograde mine Earth dist. 16472 Jan 24 01-07 20°≈604218 20°≈64718 evening set 16472 Dec 25 00:26 3°≈4347 -5°84788 minimum elong 16472 Jan 24 01-07 20°≈60712 5°5408 minimum elong 16473 Jan 02 16:13 20°≈63471 -5°84788 morning rise 16472 Feb 01 11:17 16°20 16°≈9021 minimum elong 16473 Jan 02 11:28 0°≈64210 0°54340 0°54340 dicerct 16472 Feb 17 10:44 12°≈24723 20°4744 morning rise 16473 Jan 02 20:56 26°50506 morning set 16472 Feb 12 20:23 20°24 Yes direct 16473 Jan 12 10:02 22°535 2°83257 morning set 16472 Mar 03 12:09 0°27 morning max el 16473 Jan 12 10:02 20°5352 2°2°40350 superior conj 16472 Mar 13 09:28 0°29 0°5936 morning max el 16473 Jan 12 10:02 0°24 2°27272 superior conj 16472 Mar 13 10:33 18°8°1152	•	16472 Jan 11 14:12	24° ≈ 36'34		Č	16472 Dec 12 01:05	0° ≈	
min. Earth dist.	•		23° ≈ 57'21		retrograde		4°≈04'27	
Inferior conj 16472 Jan 24 01-07 20°≈0012 -5°54'08 inferior conj 16473 Jan 02 16:13 29°€54'11 -5°54'58 minimum elong 16473 Jan 02 11:28 0°≈00'51 5°53'58 minimum elong 16473 Jan 03 00:54 29°€42'00 0.54364 AU morning max el 16472 Feb 15 20:23 21°≈21'23 20°47'44 morning rise 16473 Jan 10 21:04 22°≈05'05'06 asc. node 16472 Feb 17 04:44 22°≈44'00 direct 16473 Jan 10 21:56 25°€32'57 16472 Mar 09 14:09 0°°V 2°°V asc. node 16473 Jan 12 13:59 0°≈∞ 22°27'27 16472 Mar 09 14:09 0°°V 2°°V asc. node 16473 Jan 25 13:59 0°≈∞ 22°27'27 16472 Mar 13 11:59 80°V05'16 0°59'11 16473 Jan 25 13:59 0°∞ 22°27'27 16473 Jan 25 13:59 0°∞ 0°°0 16473 Jan 25 13:59 0°°0 0°°0 16473 Jan 25 13:59 0°°0 0°°0 16473 Jan 25 13:59 0°°0	•			0 54791 AU	•			
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asc. node 16472 Feb 17 04:44 17 02:2948 22°844'00 09 H direct 16473 Jan 25 13:59 16:20 09 H 25°832'57 H 22°872'57 H 31338 16:473 Jan 25 13:59 09 M 32°873'57 H 32°873'57 H <th< td=""><td></td><td></td><td></td><td>20045144</td><td>2.</td><td></td><td></td><td>0.54364 AU</td></th<>				20045144	2.			0.54364 AU
Morning set 16472 Mar 05 22:35 22° H238' 7° W 52'26 22° H23'57 16473 Mar 05 13:59 0° ∞ 16473 Mar 05 13:59 0° ∞ 16472 Mar 07 14:09 10° 0° W 16473 Mar 08 16473 Feb 10 30:200 0° ∞ ∞ 24'47 16473 Feb 10 30:200 0° № 0	•			20°4'/'44	•			
Morning set 16472 Mar 05 22:35 22°\tau2'\tau2'\tau3'\tau5' 22°\tau2'\tau5'\tau5' 22°\tau2'\tau5' 22°\tau2'\tau5' 22°\tau2'\tau5' 22°\tau2'\tau5' 22°\tau2'\tau5' 22°\tau2'\tau5' 22°\tau5'\tau5' 22°\tau5'\	asc. node				direct			
16472 Mar 09 14:09 0°Ψ 18:09 0°Ψ 18:09 0°9Ψ 16473 Feb 03 02:00 9°≈2447 16473 Feb 14 23:10 0°Ψ 18:04 16:04 Peb 14 23:10 0°Ψ 18:04 16:04 Peb 14 23:10 0°Ψ 18:04 16:04 Peb 14 23:10 0°Ψ 18:04 18:04 Peb 14 23:10 0°Ψ 18:04 P		16472 Feb 22 19:28				16473 Jan 25 13:59	0° ≈	
superior conj 16472 Mar 13 09:28 7° γ52'26 0°59'36 morning set 16473 Feb 14 23:10 0°H 23:10 0°H π/60'70'12 π/70'70'2 π/70'70'70'2 π/70'70'70'70'70'70'70'70'70'70'70'70'70'7	morning set	16472 Mar 05 22:35	22°) €23'57		morning max el	16473 Jan 27 13:38	1° ≈ 45'34	22°27'27
superior conj minimum elong 16472 Mar 13 09:28 0°59'16 0°59'11 σ°75'226 0°59'36 0°59'11 morning set 16473 Feb 18 09:30 7° ¥07'42 7° ¥07'42 1° 18'125 1°35'14 morning set 16472 Mar 18 13:33 18° Y11'25 1.35767 AU superior conj 16473 Feb 25 09:59 22° ¥09'40 1° 18'26 20° ±0.29° ¥12'14 1° 18'26 20° ±0.29° ¥12'14 1° 18'26 20° ±0.29° ¥12'14 1° 18'18'18'18 1° 18'18'18 1° 18'18'18'18 1° 18'18'18 1° 18'18'18 1° 18'18'18'18 1° 18'18'18'18 1° 18'18'18'18 1° 18'18'18'18 1° 18'18'18'18 1° 18'18'18'18 1° 18'18'18'18 1° 18'18'18'18 1° 18'18'18'18'18 1° 18'18'18'18 1° 18'18'18'18'18 1° 18'18'1		16472 Mar 09 14:09	0 ° Υ		asc. node	16473 Feb 03 02:00	9° ≈ 24'47	
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Pevening rise 16472 Mar 22 11:14 25°\gammas 35'13 3873 AU 16473 Mar 01 04:08 0°\gammas 10 16472 Mar 24 21:24 0°\beta 26°11'27 26°21'127 27°04'39 27°			22° ℃ 15'44				22° ¥ 21'49	1°18'18
16472 Mar 24 21:24 0°8 16473 Mar 01 03:55 0°9 16472 Mar 01 1218:00 0°1 evening rise 16473 Mar 05 14:40 8°9 53'29 evening max el 16472 Mar 26 20:46 17° 106'11 26°11'27 desc. node 16473 Mar 07 13:17 12°9 36'47 retrograde 16472 Mar 15 02:23 22° 132'15 16473 Mar 17 10:15 0°8 evening set 16472 Mar 15 02:23 22° 132'15 evening max el 16473 Apr 08 15:54 0°1 evening set 16472 Mar 15 12:44 21° 154'45 evening max el 16473 Apr 09 10:38 0°1 146'17 27° 04'39 min. Earth dist. 16472 Mar 20 00:29 17° 134'58 0.67173 AU retrograde 16473 Apr 20 10:38 0°1 146'17 27° 04'39 minimum elong 16472 Mar 21 16:13 15° 125'10 1°53'37 evening set 16473 Apr 20 10:38 5° 114'39 evening rise 16472 Mar 21 16:13 15° 131'55 1°52'23 asc. node 16473 Mar 01 03:35 0°8 evening max el 16473 Mar 07 13:17 12° 135'19 0.65607 AU direct 16472 Mar 21 16:13 15° 131'55 1°52'23 asc. node 16473 Mar 09 10:38 5° 114'39 0.65607 AU direct 16472 Mar 30 17:21 8° 140'52 minimum elong 16473 Mar 09 10:38 3° 127'38 evening set 16473 Mar 09 10:38 3° 127'38 evening rise 16473 Mar 09 10:38 3° 128'19 1° 06'00 evening rise 16473 Mar 17 10:15 0° 128' 128' 128' 128' 128' 128' 128' 128'					•			
evening max el 16472 Apr 12 18:00 0° Π evening rise 16473 Mar 05 14:40 8° Υ53'29 evening max el 16472 Apr 26 20:46 17° Π06'11 26° 11'27 desc. node 16473 Mar 07 13:17 12° Υ36'47 retrograde 16472 May 09 16:34 24° Π26'46 sac. node 16473 Apr 08 15:54 0° Π evening set 16472 May 15 02:23 22° Π32'15 evening max el 16473 Apr 08 15:54 0° Π evening set 16472 May 15 21:44 21° Π54'45 evening max el 16473 Apr 09 10:38 0° Π46'17 27° 04'39 min. Earth dist. 16472 May 20 00:29 17° Π34'58 0.67173 AU retrograde 16473 Apr 22 21:05 8° Π17'20 inferior conj 16472 May 21 18:24 15° Π25'10 1°53'37 evening set 16473 Apr 29 10:38 5° Π45'49 minimum elong 16472 May 21 16:13 15° Π31'55 1°52'23 asc. node 16473 May 01 23:32 3° Π27'38 morning rise 16472 May 30 17:21 8° Π40'52 minimum elong 16473 May 05 02:29 30° R*U morning max el 16472 Jun 16 16:53 25° Π50'09 minimum elong 16473 May 05 13:31 29° Δ28'19 1° 10'45'5 16472 Jun 19 10:31 0° Θ morning rise 16473 May 11 17:58 23° Δ51'44 morning set 16472 Jun 19 10:31 0° Θ morning max el 16473 May 11 17:58 23° Δ51'44 morning set 16472 Jun 18 15:43 0° Ω morning max el 16473 May 14 14:11 23° Δ80'80'7 μον 16472 Jun 18 18:43 0° Ω πον 16472 Jun 18 18:43 0° Ω πον 16473 May 20 21:23 26° Δ24'27 18° 02'29 morning max el 16472 Jun 18 13 01:31 0° Ω morning max el 16473 May 20 21:23 26° Δ24'27 18° 02'29 morning max el 16472 Jun 18 13 01:31 0° Ω πον 16473 May 20 21:23 26° Δ24'27 18° 02'29 morning max el 16473 May 24 01:48 0° Π40' Π40' Π40' Π40' Π40' Π40' Π40' Π40'	e vennig rise				max. Earth dist.			1.55075710
evening max el 16472 Apr 26 20:46 17° Π06'11 26°11'27 desc. node 16473 Mar 07 13:17 12° Υ36'47 retrograde asc. node 16472 May 15 02:23 22° Π32'15 16473 Mar 17 10:15 0° Β evening set 16472 May 15 02:23 22° Π32'15 evening max el 16473 Apr 08 15:54 0° Π evening set 16472 May 15 21:44 21° Π54'45 evening max el 16473 Apr 09 10:38 0° Π46'17 27°04'39 min. Earth dist. 16472 May 20 00:29 17° Π34'58 0.67173 AU retrograde 16473 Apr 09 10:38 5° Π46'17 27°04'39 mine conj 16472 May 21 16:13 15° Π25'10 1°53'37 evening set 16473 Apr 29 10:38 5° Π45'49 10° Π40'17 27°04'39 morning rise 16472 May 21 16:13 15° Π25'13 1°52'23 asc. node 16473 May 01 23:32 3° Π27'38 10° Π25'13 1°50'13'15'5 min. Earth dist. 16473 May 03 08:24 1° Π59'39 0.65607 AU direct 16472 May 30 17:21 8° Π40'52 18°34'55 inferior conj 16473 May 05 12:31 29° Β23'40					avanina rias			
retrograde 16472 May 19 16:34 24° \$\Pi 26'46\$ 16473 Mar 17 10:15 0° \$\Bar{B}\$ asc. node 16472 May 15 02:23 22° \$\Pi 32'15\$ evening max el 16473 Apr 08 15:54 0° \$\Pi\$ evening set 16472 May 15 21:44 21° \$\Pi 54'45\$ evening max el 16473 Apr 09 10:38 0° \$\Pi 46'17\$ 27° 04'39 min. Earth dist. 16472 May 20 00:29 17° \$\Pi 34'58\$ 0.67173 AU retrograde 16473 Apr 22 21:05 8° \$\Pi 17'20\$ inferior conj 16472 May 21 18:24 15° \$\Pi 25'10\$ 1° 53'37 evening set 16473 Apr 29 10:38 5° \$\Pi 45'49\$ minimum elong 16472 May 21 16:13 15° \$\Pi 31'155\$ 1° 52'23 asc. node 16473 May 01 23:32 3° \$\Pi 27'38\$ morning rise 16472 May 30 17:21 8° \$\Pi 40'15\$ min. Earth dist. 16473 May 05 02:29 30° \$\Rac{8}{15'}\$ morning max el 16472 Jun 16 16:53 25° \$\Pi 50'09\$ minimum elong 16473 May 05 15:09 29° \$\Rac{8}{23'}\$ do 1° 06'00 desc. node 16472 Jun 19 10:31 0° \$\Rac{9}{15'}\$ morning rise 16473 May 11 17:58 23° \$\Rac{8}{15'}\$ inferior conj 16473 May 11 17:58 23° \$\Rac{8}{15'}\$ inferior grade 16473 May 11 17:58 23° \$\Rac{8}{15'}\$ inferior grade 27 11:31 23° \$\Rac{8}{15'}\$ inferior grade 28 16473 May 11 17:58 23° \$\Rac{8}{15'}\$ inferior grade 29 16473 May 11 17:58 23° \$\Rac{8}{15'}\$ inferior grade 29 16473 May 11 17:58 23° \$\Rac{8}{15'}\$ inferior grade 29 16473 May 11 17:58 23° \$\Rac{8}{15'}\$ inferior grade 29 16473 May 11 17:58 23° \$\Rac{8}{15'}\$ inferior grade 29 16473 May 12 11:31 29° \$\Rac{8}{15'}\$ inferior grade 29 16473 May 12 11:31 29° \$\Rac{8}{15'}\$ inferior grade 29 16473 May 12 11:31 29° \$\Rac{8}{15'}\$ inferior grade 29 16473 May 12 11:31 29° \$\Rac{8}{15'}\$ inferior grade 29 16473 May 12 11:31 29° \$\Rac{8}{15'}\$ inferior grade 29 16473 May 12 11:31 29° \$\Rac{8}{15'}\$ inferior grade 29 16473 May 12 11:31 29° \$\Rac{8}{15'}\$ inferior grade 29 16473 May 12 11:31 29° \$\Rac{8}{15'}\$ inferior grade 29 16473 May 12 11:31 23° \$\Rac{8}{15'}\$ inferior grade 29 16473 May 12 11:31 23° \$\Rac{8}{15'}\$ inferior grade 29 16473 May 12 11:31 23° \$\Rac{8}{15'}\$ inferior grade 29 16473 May 12 11:31 23° \$\Rac{8}{15'}\$ inferior grade 29 16473 May 2		*		26011127	-			
asc. node	•			26°11'2/	desc. node			
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direct 16472 May 30 17:21 8° Π40′52 16473 May 05 02:29 30° R 30°	morning rise	16472 May 27 11:31	9° Ⅱ 40′31		min. Earth dist.	16473 May 03 08:24	1° Ⅱ 59'39	0.65607 AU
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max. Earth dist. $\begin{array}{cccccccccccccccccccccccccccccccccccc$	morning set				•			
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	mov Family P			1 45000 411	morning max er	•		10 02 29
desc. node 164/3 Jun 03 13:53 15° 4 45'15	max. Earth dist.	104/2 Jul 13 U1:31	0 863213	1.43989 AU	4 1			
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morning set	16473 Jun 08 08:41	23° Ⅲ 31'15			16474 May 17 22:58	0°Щ	
	16473 Jun 12 08:33	0°छ		morning set	16474 May 21 06:11	5° Ⅱ 36'50	
				desc. node	16474 May 21 10:49	5° Ⅱ 56'35	
superior conj	16473 Jun 22 23:57	16° © 57'48	-2°00'18				
minimum elong	16473 Jun 22 16:19	16° 5 27'45	2°00'26	superior conj	16474 Jun 03 02:55	27° Ⅱ 05'43	-1°31'06
max. Earth dist.	16473 Jun 25 22:17	21° © 33'28	1.45875 AU	minimum elong	16474 Jun 02 18:51	26° Ⅱ 32'57	1°30'49
	16473 Jul 01 08:30	0 $^{\circ}$ Ω			16474 Jun 04 22:02	0 \circ	
evening rise	16473 Jul 09 03:09	12° Ω 00′17		max. Earth dist.	16474 Jun 08 17:38	6° © 05'46	1.45023 AU
	16473 Jul 20 22:56	0° ™		evening rise	16474 Jun 18 13:40	21° © 23'44	
greatest brilliancy	16473 Jul 21 21:18	1°M)22'58	-0.7m		16474 Jun 24 05:48	0 \circ Ω	
asc. node	16473 Jul 28 23:00	11° m 19'42		asc. node	16474 Jul 15 19:48	29° Ω 44'57	
evening max el	16473 Aug 02 18:36	16° m 56'00	19°23'37		16474 Jul 16 01:29	0° m/y	20022112
retrograde	16473 Aug 09 20:41	20° m 51'52		evening max el	16474 Jul 16 21:19	0° m 50'49	20°23'12
evening set	16473 Aug 13 12:16	19° Mp 34'42	2040110	retrograde	16474 Jul 24 19:46	5° Mp 22'03	
inferior conj	16473 Aug 18 21:42	13° Mp 42'13	2°49'10 2°48'39	evening set	16474 Jul 28 21:54	3°№46'50 30°R Ω	
minimum elong min. Earth dist.	16473 Aug 18 23:23 16473 Aug 20 05:37	13° Mp 36'42 11° Mp 57'22	0.67408 AU	inferior conj	16474 Aug 01 11:02 16474 Aug 03 04:01	30 κδι 27°Ω42'30	3°04'18
morning rise	16473 Aug 20 03:37	7° Mg 15'21	0.07408 AU	minimum elong	16474 Aug 03 04:50	$27^{\circ}\Omega^{42}$ 30 $27^{\circ}\Omega^{39}$ 42	3°03'51
direct	16473 Aug 24 09:34 16473 Aug 30 08:03	4° m/ 42'19		min. Earth dist.	16474 Aug 03 04:30	26°Ω40'14	0.68471 AU
desc. node	16473 Aug 30 12:00	4° m) 42'26		morning rise	16474 Aug 03 22:10 16474 Aug 08 11:25	20° Ω 18'31	0.06471 AU
morning max el	16473 Sep 11 15:14	12° m 02'39	25°31'51	direct	16474 Aug 13 22:10	18° Ω 56'11	
morning man vi	16473 Sep 26 02:07	0∘ ⊽	20 3101	desc. node	16474 Aug 17 09:18	19° Ω 44'05	
	16473 Oct 15 00:28	0°M		morning max el	16474 Aug 25 02:21	25° Ω 36'46	24°05'54
morning set	16473 Oct 17 13:04	4° M ₃30'17			16474 Aug 29 02:32	0° m)	
max. Earth dist.	16473 Oct 21 02:43	11° M 05'48	1.36036 AU		16474 Sep 19 13:57	0∘ ⊽	
asc. node	16473 Oct 24 23:59	18°M34'29		morning set	16474 Sep 29 09:12	16° ჲ 03'15	
				max. Earth dist.	16474 Oct 03 01:56	22° ≏ 30′25	1.38386 AU
superior conj	16473 Oct 27 07:48	23°M11'23	0°20'52		16474 Oct 07 05:08	0° M	
minimum elong	16473 Oct 27 06:34	23°M05'14	0°21'06				
	16473 Oct 30 16:20	0° ∡ ¹		superior conj	16474 Oct 10 11:46	6° ™ 09'08	-0°12'14
evening rise	16473 Nov 04 05:15	9° ∡ ′20′13		minimum elong	16474 Oct 10 12:36	6°M13′05	0°11'45
	16473 Nov 15 06:15	0° ろ		behind sun begin	16474 Oct 10 07:46	5° ™ 50'05	
evening max el	16473 Nov 22 00:43	8° る 45'54	20°04'41	behind sun end	16474 Oct 10 17:26	6°M36'07	
desc. node	16473 Nov 26 09:46	12° ろ 13'55		asc. node	16474 Oct 11 20:47	8°M47'16	
retrograde	16473 Dec 02 12:26	13°る59'31		evening rise	16474 Oct 19 06:40	23°M20'17	
evening set	16473 Dec 04 16:19	13°₹47'14	40.5.0100		16474 Oct 22 16:27	0° ⊀ ⁷	10000105
inferior conj	16473 Dec 13 10:38	9° 3 49'36		evening max el	16474 Nov 04 17:05	20° ₹ 15'52	19°02'37
minimum elong	16473 Dec 13 00:44	10°る04'31	4°52'59 0.54884 AU	desc. node	16474 Nov 13 06:52 16474 Nov 13 15:05	24° ⊀ '45'01 24° ≮ '45'24	
min. Earth dist.	16473 Dec 15 06:51 16473 Dec 21 08:16	8 043 04 5° る 43'27	0.34884 AU	retrograde evening set	16474 Nov 15 13:03	24 x 43 24 24° x 34'04	
morning rise direct	16473 Dec 26 06:18	5 043 27 4° る 50'52		inferior conj	16474 Nov 23 21:21	24 x 34 04 20° x 18′55	-3°20'38
morning max el	16474 Jan 08 22:21	11°る37'08	24°17'43	minimum elong	16474 Nov 23 13:14	20° ₹ 32'57	
asc. node	16474 Jan 20 23:14	27° ろ 08'30	21 17 13	min. Earth dist.	16474 Nov 26 17:26	18°×721'40	0.56248 AU
use. Houe	16474 Jan 22 16:42	0° ≈		morning rise	16474 Dec 01 11:18	15° ₹ 39'38	0.002.0110
morning set	16474 Feb 02 21:30	21° ≈ 49'57		direct	16474 Dec 07 05:39	14° ∡ ¹21'51	
C	16474 Feb 06 15:26	0° ∀		morning max el	16474 Dec 21 08:37	21° ∡ ³35'15	26°00'00
				_	16474 Dec 28 17:07	ರ°ರ	
superior conj	16474 Feb 09 16:17	6° ¥ 39'57	1°30'57	asc. node	16475 Jan 07 20:25	15° る 39'48	
minimum elong	16474 Feb 09 17:51	6°) 48'30	1°31'09		16475 Jan 15 07:40	0°≈	
max. Earth dist.	16474 Feb 12 02:20	11° ¥ 54'50	1.32402 AU	morning set	16475 Jan 18 08:46	6° ≈ 26′01	
evening rise	16474 Feb 17 05:08	22°) 37′02					
	16474 Feb 20 23:03	0° Υ		superior conj	16475 Jan 25 02:09	21° ≈ 17'19	
desc. node	16474 Feb 22 09:59	2° Y 45'16		minimum elong	16475 Jan 25 02:44	21° ≈ 20'32	1°37'45
	16474 Mar 11 04:02	0°8		max. Earth dist.	16475 Jan 26 06:36	23°≈55'21	1.31429 AU
evening max el	16474 Mar 22 23:13	14° 8 02'02	27°33'30		16475 Jan 29 01:01	0°) {	
retrograde	16474 Apr 05 18:43	21° 8 34'08		evening rise	16475 Feb 01 03:54	6°) €39'33	
evening set min. Earth dist.	16474 Apr 12 13:22	19° 8 09'53	0.63675 AU	desc. node	16475 Feb 09 06:44 16475 Feb 13 11:49	22°) 35′51 0° °	
min. Earth dist.	16474 Apr 16 08:00 16474 Apr 18 20:44	13° 6 53'28	0.030/3 AU	evening max el	16475 Heb 13 11:49 16475 Mar 05 08:23	0°γ' 26°Υ'40'53	27°31'32
inferior conj	16474 Apr 18 20:44 16474 Apr 19 02:29	13° 8 02'44	0°04'31	evening max er	16475 Mar 09 05:11	0° 8	41 31 34
minimum elong	16474 Apr 19 02:29 16474 Apr 19 02:22	13° 8 03'04	0°04'05	retrograde	16475 Mar 19 08:26	4° 8 07'19	
transit middle	16474 Apr 19 02:22	13° 8 03'04	0°04'05	evening set	16475 Mar 26 03:16	1° 8 57'45	
transit begin	16474 Apr 18 23:19	13° 8 10'56			16475 Mar 28 19:44	30°RY	
transit end	16474 Apr 19 05:24	12° 8 55'13		min. Earth dist.	16475 Mar 29 21:55	29° Y ′04'31	0.61486 AU
morning rise	16474 Apr 25 17:50	7° 8 46'01		inferior conj	16475 Apr 02 01:04	26° Y 13′50	
direct	16474 Apr 28 05:26	7° 8 15'32		minimum elong	16475 Apr 02 03:36	26° Y ′08′03	1°10'29
morning max el	16474 May 04 14:49	10° 8 30'56	17°47'20	asc. node	16475 Apr 05 17:59	23° Y 07'35	

morning rise	16475 Apr 09 07:15	21° Y 15'01		asc. node	16476 Mar 22 15:16	4° Υ ′03'02	
direct	16475 Apr 11 11:33	20° Y ′54′22		direct	16476 Mar 24 04:23	3° Y 54'08	
morning max el	16475 Apr 18 07:51	24° Y 20'43	17°50'03	morning max el	16476 Mar 31 20:51	7° Y 43'08	18°11'48
	16475 Apr 22 22:43	0°B			16476 Apr 15 04:02	9° 8	
morning set	16475 May 04 01:13	18° 8 41'58		morning set	16476 Apr 16 12:02	2° 8 29'47	
desc. node	16475 May 08 07:43	26° 8 19'04		desc. node	16476 Apr 24 04:34	16° 8 48'17	
	16475 May 10 09:50	0°II			· · · · ·		
	10.70 1.149 10 05.00	· -		superior conj	16476 Apr 26 05:20	20° 8 29'01	-0°16'54
aumorior comi	16475 May 15 04:52	8° Ⅱ 17'02	0054122		•	20° 8 22'52	
superior conj	16475 May 15 04:52			minimum elong	16476 Apr 26 03:58		0 1/0/
minimum elong	16475 May 14 23:58	7° Ⅱ 56'11			16476 May 01 15:19	0°Щ	
max. Earth dist.	16475 May 22 09:06		1.43524 AU	max. Earth dist.	16476 May 03 19:39	3° Ⅱ 42'36	1.41539 AU
	16475 May 28 12:25	0		evening rise	16476 May 08 15:57	11° Ⅱ 43′02	
evening rise	16475 May 29 05:54	1° 5 08'19			16476 May 20 11:03	0	
	16475 Jun 17 18:43	$0^{\circ}\Omega$		evening max el	16476 Jun 11 10:17	28° © 40'25	22°54'46
evening max el	16475 Jun 29 18:02	14° Ω 45'13	21°35'04		16476 Jun 12 19:33	$0^{\circ}\Omega$	
asc. node	16475 Jul 02 16:40	17° Ω 23'05		asc. node	16476 Jun 18 13:35	3° Ω 59'17	
retrograde	16475 Jul 08 18:28	19° Ω 59'38		retrograde	16476 Jun 21 15:15	4° Ω 39'28	
evening set	16475 Jul 13 07:44	18°Ω07'08		evening set	16476 Jun 26 16:03	2°Ω31'25	
inferior conj	16475 Jul 18 13:11	11° Ω 52'26	3°07'58	evening sec	16476 Jun 29 01:43	30°RS	
5	16475 Jul 18 13:03	11° Ω 52'55	3°07'27	inferior conj	16476 Jul 01 23:15	26°\$08'22	3°01'00
minimum elong				3			
min. Earth dist.	16475 Jul 18 18:03	11° Ω 35'30	0.69058 AU	minimum elong	16476 Jul 01 22:13	26° © 11'59	3°00'19
morning rise	16475 Jul 23 18:11	5° Ω 34'10		min. Earth dist.	16476 Jul 01 15:05	26° © 36'47	0.69156 AU
direct	16475 Jul 28 16:51	3° Ω 27'11		morning rise	16476 Jul 07 04:16	19° © 57'47	
desc. node	16475 Aug 04 06:36	6° Ω 18′20		direct	16476 Jul 11 14:53	18° © 09'02	
morning max el	16475 Aug 07 14:39	9° Ω 18'32	22°36'50	morning max el	16476 Jul 20 06:49	23° © 09'11	21°12'50
	16475 Aug 23 21:02	o°mp		desc. node	16476 Jul 21 03:51	24°503'03	
morning set	16475 Sep 10 06:46	26° m 38'38			16476 Jul 26 05:51	$0^{\circ}\Omega$	
Ü	16475 Sep 12 07:51	0° ٽ			16476 Aug 16 04:01	0° m)	
max. Earth dist.	16475 Sep 15 02:13	4° م 37'19	1.40789 AU	morning set	16476 Aug 20 05:03	6° m) 15'48	
man Bartin Gigt.	10.770 Sep 10 02.15	. —3, 19	1.10,05110	max. Earth dist.	16476 Aug 27 08:12	17° mp 38'17	1.42966 AU
superior coni	16475 Sep 22 23:29	18° ≏ 22'50	0048140	max. Lartii dist.	104/0 Aug 2/ 00.12	17 1195017	1.42700 AC
superior conj	•				16476 9 02 14.40	200 m 42152	1925110
minimum elong	16475 Sep 23 03:22	18° ≏ 40'20	0°48'02	superior conj	16476 Sep 03 14:40	29° m 43'52	
asc. node	16475 Sep 28 17:33	28° ♀ 57'12		minimum elong	16476 Sep 03 21:40	0° ჲ 13'42	1°24'29
	16475 Sep 29 06:57	0°M₊			16476 Sep 03 18:27	0∘ ⊽	
evening rise	16475 Oct 02 23:25	6°M56'53		asc. node	16476 Sep 14 14:17	19° ഫ 00'59	
	16475 Oct 16 15:01	0° ∡ 7		evening rise	16476 Sep 15 03:28	20° ♀ 00'07	
evening max el	16475 Oct 18 21:09	2° ∡ ³32'47	18°22'46		16476 Sep 20 18:19	0° M	
retrograde	16475 Oct 26 12:49	6° ∡ ¹26'25		evening max el	16476 Oct 01 08:37	15° M ₊27'10	18°03'29
evening set	16475 Oct 28 13:00	6° ∡ 11'02		retrograde	16476 Oct 08 04:12	18° M 57'38	
desc. node	16475 Oct 31 04:03	5° ∡ '08'29		evening set	16476 Oct 10 11:13	18° M 33'58	
inferior conj	16475 Nov 05 05:38	1° ∡ ³34'52	-1°38'07	inferior conj	16476 Oct 17 10:39	13°M37'00	-0°07'27
minimum elong	16475 Nov 05 01:50	1° х 42′31	1°36'03	minimum elong	16476 Oct 17 10:25	13°M37'33	0°06'57
minimum ciong	16475 Nov 07 04:23	30°RM	1 30 03	transit middle	16476 Oct 17 10:25	13°M37'33	0°06'57
min Forth dist		28°M58'54	0.58213 AU			13°M44'31	0 00 37
min. Earth dist.	16475 Nov 08 11:20		0.38213 AU	transit begin	16476 Oct 17 07:26		
morning rise	16475 Nov 12 11:11	26°M₁8'46		transit end	16476 Oct 17 13:24	13°M30'34	
direct	16475 Nov 18 19:38	24°M33'50		desc. node	16476 Oct 17 01:16	13°M58'53	
	16475 Nov 30 17:29	0° ∡		min. Earth dist.	16476 Oct 20 14:20	10° M 41′19	0.60476 AU
morning max el	16475 Dec 03 02:09	2° ∡ 08'50	27°15'56	morning rise	16476 Oct 24 06:29	7° ™ 49'49	
	16475 Dec 23 02:46	0°₹		direct	16476 Oct 30 22:08	5° M 40'47	
asc. node	16475 Dec 25 17:34	4° る 45'54		morning max el	16476 Nov 14 03:38	13°M30'42	27°54'40
morning set	16476 Jan 02 17:28	20° る 50'29			16476 Nov 27 08:53	0° ∡ ¹	
	16476 Jan 06 21:56	0° ≈		asc. node	16476 Dec 11 14:40	24° ∡ 17'31	
					16476 Dec 14 11:47	0°ჳ	
superior conj	16476 Jan 09 13:31	5°≈55'29	1°37'37	morning set	16476 Dec 16 21:41	4° る 58'45	
minimum elong	16476 Jan 09 13:02	5°≈52'48	1°38'09	max. Earth dist.	16476 Dec 22 20:37		1.31100 AU
max. Earth dist.	16476 Jan 09 13:53	5°≈57'31	1.30988 AU	max. Darui dist.	10170 Dec 22 20.37	1, 03402	1.51100 AU
			1.30988 AU	aumariar aani	16476 Day 24 00:20	200=20017	1921152
evening rise	16476 Jan 16 08:34	20°≈54'53		superior conj	16476 Dec 24 00:30	20°る29'17	
	16476 Jan 20 17:52	0°) (minimum elong	16476 Dec 23 23:03	20° පි 21'14	1~32'22
desc. node	16476 Jan 27 03:31	12°) €00'59		_	16476 Dec 28 06:53	0° ≈	
	16476 Feb 07 22:08	0° Υ		evening rise	16476 Dec 30 17:03	5°≈18'23	
evening max el	16476 Feb 15 11:39	8° Y 32'05	26°54'51		16477 Jan 12 11:52	0°)	
retrograde	16476 Feb 29 12:49	15° Ƴ 47'54		desc. node	16477 Jan 13 00:18	0° 米 51′21	
evening set	16476 Mar 07 01:12	14° Ƴ 00'17		evening max el	16477 Jan 27 07:00	19°) (30′48	25°44'17
min. Earth dist.	16476 Mar 11 01:46	11° Y ′20'17	0.59210 AU	retrograde	16477 Feb 10 05:23	26° ¥ 32'25	
inferior conj	16476 Mar 14 07:08	8° Y 47'08		evening set	16477 Feb 16 03:36	25°) 11′26	
minimum elong	16476 Mar 14 13:16	8° Y '34'58	2°36'50	min. Earth dist.	16477 Feb 20 19:59	22°) 31'40	0.57100 AU
_	-0.,014m 17 15.10		_ 5550				
morning rise	16476 Mar 22 04:57	4° Υ 08'35		inferior conj	16477 Feb 23 17:16	20°) 33'03	-4°10'38

minimum elong	16477 Feb 24 02:25	20°) 17′20	4°07'37	minimum elong	16478 Feb 04 14:26	1° ¥ 14'22	5°25'21
morning rise	16477 Mar 04 04:14	16° ¥ 15'45	. 0,5,		16478 Feb 06 17:21	30°R≈	0 20 21
direct	16477 Mar 06 03:51	16° ¥ 03'37		morning rise	16478 Feb 12 22:58	27° ≈ 28'42	
asc. node	16477 Mar 09 12:36	16°) 40′30		direct	16478 Feb 15 07:44	27° ≈ 14'18	
morning max el	16477 Mar 15 01:42	20°) €26'04	18°54'20		16478 Feb 23 00:59	0°) €	
C	16477 Mar 22 07:05	0° Υ		asc. node	16478 Feb 24 09:54	1°) 04'40	
morning set	16477 Mar 31 09:44	16° Ƴ 45'34		morning max el	16478 Feb 25 18:14	2° ₩ 18'19	19°59'40
	16477 Apr 07 04:26	9° 8			16478 Mar 14 23:09	0° Y	
				morning set	16478 Mar 15 14:42	1° Y 18'49	
superior conj	16477 Apr 09 00:27	3° 8 30'14	0°17'13				
minimum elong	16477 Apr 09 01:32	3° 8 35'25	0°16'43	superior conj	16478 Mar 23 09:56	17° Y ′09'31	0°45'53
desc. node	16477 Apr 11 01:20	7° 8 19'56		minimum elong	16478 Mar 23 12:14	17° Y ′20′57	0°45'22
max. Earth dist.	16477 Apr 16 02:39	16° 8 30'50	1.39286 AU	desc. node	16478 Mar 28 22:04	27° Y ′50'40	
evening rise	16477 Apr 19 23:18	23° 8 12'58		max. Earth dist.	16478 Mar 29 09:21	28° Ƴ 43'38	1.37004 AU
	16477 Apr 24 00:54	Π °0			16478 Mar 30 01:42	$0^{\circ}S$	
	16477 May 14 07:12	0 \circ		evening rise	16478 Apr 02 02:27	5° 8 32'24	
evening max el	16477 May 25 00:16	12° © 36'15	24°16'20		16478 Apr 16 22:57	0°П	
retrograde	16477 Jun 05 08:44	19° © 14'39		evening max el	16478 May 07 13:44	26° Ⅱ 30'38	25°32'41
asc. node	16477 Jun 05 10:34	19° © 14'38		_	16478 May 11 12:16	0°€	
evening set	16477 Jun 10 21:12	16°953'50		retrograde	16478 May 19 21:55	3°538'53	
min. Earth dist.	16477 Jun 15 11:01	11°536'52	0.68764 AU	asc. node	16478 May 23 07:37	2°551'48	
inferior conj	16477 Jun 16 08:15	10°525'09	2°43'35	evening set	16478 May 25 21:31	1°509'16	
minimum elong	16477 Jun 16 06:29	10°931'07	2°42'38	: ID at 11 a	16478 May 27 03:15	30°RⅡ 260Ⅲ20117	0.67001 ATT
morning rise	16477 Jun 21 15:51	4°523'44		min. Earth dist.	16478 May 30 03:50	26° Ⅲ 29'17 24° Ⅲ 38'43	0.67891 AU
direct	16477 Jun 25 14:47	2°954'30	10050147	inferior conj	16478 May 31 14:14	24°Щ38'43 24°Щ45'41	2°15'15 2°14'05
morning max el desc. node	16477 Jul 03 05:20 16477 Jul 08 01:02	7° © 09'49 12° © 39'17	19°59'47	minimum elong morning rise	16478 May 31 12:04 16478 Jun 06 03:06	18° Ⅱ 47'43	2 14 03
desc. node	16477 Jul 08 01:02	12 3 3917 0° Ω		direct	16478 Jun 09 14:59	18 П 4743 17° П 37'43	
morning set	16477 Jul 20 03:24 16477 Jul 30 11:18	15° Ω 14'15		morning max el	16478 Jun 16 11:09		19°01'17
morning set	16477 Aug 08 22:55	0°m)		morning max cr	16478 Jun 23 13:52	0°95	17 01 17
max. Earth dist.	16477 Aug 09 21:10	1° m/28'06	1.44668 AU	desc. node	16478 Jun 24 22:10	1° © 53'39	
max. Lattii dist.	10477 Mug 07 21.10	1 11/2000	1.44000 710	greatest brilliancy	16478 Jun 29 13:02	8°940'48	-0.7m
superior conj	16477 Aug 15 06:23	10° Mp 06'02	-1°55'52	morning set	16478 Jul 09 19:05	24°9522'06	0.711
minimum elong	16477 Aug 15 14:06	10° mp 37'19			16478 Jul 13 10:30	0° Ω	
	16477 Aug 27 05:32	0∘ <u>⊽</u>		max. Earth dist.	16478 Jul 23 15:11	15° Ω 50'53	1.45718 AU
evening rise	16477 Aug 28 13:39	2° ₽ 16'39					
asc. node	16477 Sep 01 10:59	8° ≙ 54'00		superior conj	16478 Jul 26 01:08	19° Ω 37'57	-2°12'53
evening max el	16477 Sep 14 23:18	28° ≏ 48'14	18°03'16	minimum elong	16478 Jul 26 04:14	19° Ω 50′08	2°13'16
	16477 Sep 16 07:04	0° M			16478 Aug 01 14:28	0° m	
retrograde	16477 Sep 21 09:08	2°M09'06		evening rise	16478 Aug 10 00:56	13° m 34'28	
evening set	16477 Sep 24 00:24	1°M33'36		asc. node	16478 Aug 19 07:41	28°M/31'36	
	16477 Sep 26 12:17	30°Ŗ 죠			16478 Aug 20 06:21	0∘ ত	
inferior conj	16477 Sep 30 08:53	26° ≏ 18'07	1°04'41	evening max el	16478 Aug 29 13:44	12° ≏ 27'13	18°21'03
minimum elong	16477 Sep 30 10:35	26° ≏ 13'36	1°04'19	retrograde	16478 Sep 04 23:17	15° ≏ 51'50	
min. Earth dist.	16477 Oct 03 03:17	23° ≏ 22'54	0.62751 AU	evening set	16478 Sep 07 23:27	15° ≏ 01'42	
desc. node	16477 Oct 03 22:31	22° △ 34'59		inferior conj	16478 Sep 13 20:18	9° ≏ 30'16	1°58'01
morning rise	16477 Oct 06 18:27	20° ₾ 08'55		minimum elong	16478 Sep 13 22:36	9° ₾ 23'29	1°57'23
direct	16477 Oct 13 10:46	17° Ω 42'36	27054116	min. Earth dist.	16478 Sep 16 02:02	6° £ 52'46	0.64830 AU
morning max el	16477 Oct 27 11:10	25° Ω 39'58	2/~54.16	morning rise desc. node	16478 Sep 19 20:16	3° ჲ 08'18	
	16477 Oct 31 11:33	0° ™ 0° <i>≯</i> 7			16478 Sep 20 19:49	2° £ 24'21	
asc. node	16477 Nov 20 21:41 16477 Nov 28 11:40	0 x . 14° ∡ 107'11		direct morning max el	16478 Sep 26 08:09 16478 Oct 09 22:01	0° ჲ 32'49 8° ჲ 27'30	27010154
morning set	16477 Nov 28 11.40	18° × ⁷ 45'48		morning max er	16478 Oct 26 17:21	0°M	27 10 34
max. Earth dist.	16477 Dec 05 23:05	29° × 36'49	1.31776 AU		16478 Nov 13 05:44	0° ⊼ ¹	
max. Lattii dist.	16477 Dec 06 03:23	0°る	1.51770710	morning set	16478 Nov 14 07:31	2° × 705'17	
	10177 Dec 00 03.23	° 0		asc. node	16478 Nov 15 08:35	4°×7'08'45	
superior conj	16477 Dec 08 09:10	4° る 53'28	1°20'00	max. Earth dist.	16478 Nov 18 17:40	10° ₹ 59'22	1.33022 AU
minimum elong	16477 Dec 08 07:01	4°る41'42	1°20'22				
evening rise	16477 Dec 15 03:31	19° る 45'32		superior conj	16478 Nov 22 13:24	19° ∡ '01'57	1°01'53
<u> </u>	16477 Dec 20 01:05	0° ≈		minimum elong	16478 Nov 22 11:01	18° ∡ ′49'14	
desc. node	16477 Dec 30 21:09	18° ≈ 54'39		S	16478 Nov 27 15:21	0°రె	
evening max el	16478 Jan 08 18:43	29° ≈ 44'20	24°08'51	evening rise	16478 Nov 29 14:06	4° ප 11'16	
-	16478 Jan 09 01:19	0° ∀		-	16478 Dec 13 09:40	0° ≈	
retrograde		(0)/(00)45		JJ.	16479 Dec 17 19:04	5°≈53'22	
	16478 Jan 22 08:22	6°) €28'47		desc. node	16478 Dec 17 18:04	3 8 33 22	
evening set	16478 Jan 22 08:22 16478 Jan 27 07:43	6° X 28'47 5° X 34'59		evening max el	16478 Dec 21 04:29	9°≈38'29	22°25'05
min. Earth dist.		5°) 34′59 2°) 38′44	0.55436 AU	evening max el retrograde			22°25'05
•	16478 Jan 27 07:43	5° ¥ 34'59		evening max el	16478 Dec 21 04:29	9° ≈ 38'29	22°25'05

i. Darda dia	16470 I 14 12:16	1100 05 4127	0.54404.411	i. Fauth diat	16470 Dec 26 17:27	200750112	0.54470.411
min. Earth dist.	16479 Jan 14 12:16	11°≈54'37	0.54494 AU	min. Earth dist.	16479 Dec 26 17:37		0.54470 AU
inferior conj	16479 Jan 15 02:08	11°≈35'08		morning rise	16480 Jan 02 19:26	17°る31'21	
minimum elong	16479 Jan 15 02:52	11°≈34'07	6°01'41	direct	16480 Jan 07 02:49	16°る51'23	22012150
morning rise	16479 Jan 23 14:23	7° ≈ 47'30		morning max el	16480 Jan 20 08:27	23° る 19'56	23°13'58
direct	16479 Jan 26 19:20	7° ≈ 24'22			16480 Jan 26 05:12	0° ≈	
morning max el	16479 Feb 07 19:44	13° ≈ 12'58	21°28'04	asc. node	16480 Jan 29 04:28	4° ≈ 10'14	
asc. node	16479 Feb 11 07:12	17° ≈ 00'46		morning set	16480 Feb 12 11:41	0°) 43'41	
	16479 Feb 19 20:53	0° ∀			16480 Feb 12 03:29	0° ∀	
morning set	16479 Feb 28 00:05	16° ∺ 00'19					
	16479 Mar 06 15:27	0° Y		superior conj	16480 Feb 19 09:13	15°) 38′54	1°24'29
				minimum elong	16480 Feb 19 11:15	15°) 49′49	1°24'30
superior conj	16479 Mar 07 05:54	1° Y 15′20	1°08'21	max. Earth dist.	16480 Feb 22 13:16	22° ∺ 23′23	1.33188 AU
minimum elong	16479 Mar 07 08:24	1° Y 28'18	1°08'03		16480 Feb 26 06:14	0° Y	
max. Earth dist.	16479 Mar 11 19:45	10° Ƴ 34'49	1.34913 AU	evening rise	16480 Feb 27 06:31	2° Y '00'56	
evening rise	16479 Mar 15 22:00	18° Ƴ 31'17		desc. node	16480 Mar 01 15:29	8° Y 31'56	
desc. node	16479 Mar 15 18:47	18° Ƴ 16′01			16480 Mar 14 04:10	9° 8	
	16479 Mar 22 06:03	0°B		evening max el	16480 Apr 01 16:42	23° 8 47'34	27°20'17
	16479 Apr 11 02:43	$\Pi^{\circ}0$			16480 Apr 10 00:15	$\Pi^{\circ}0$	
evening max el	16479 Apr 20 03:20	10° Ⅱ 17'18	26°36'30	retrograde	16480 Apr 15 07:57	1° Ⅱ 20'59	
retrograde	16479 May 03 05:59	17° Ⅱ 44′00			16480 Apr 20 06:15	30° ₹ 8	
evening set	16479 May 09 15:11	15° Ⅱ 11'04		evening set	16480 Apr 22 00:04	28° 8 51'30	
asc. node	16479 May 10 04:45	14° ∏ 42'27		min. Earth dist.	16480 Apr 25 20:07	25° 8 18'35	0.64818 AU
min. Earth dist.	16479 May 13 15:29	11° Ⅱ 06′15	0.66557 AU	asc. node	16480 Apr 26 01:57	25° 8 03'04	
inferior conj	16479 May 15 15:03	8° Ⅱ 43'48	1°35'03	inferior conj	16480 Apr 28 08:09	22° 8 34'26	0°41'40
minimum elong	16479 May 15 13:00	8° Ⅱ 49'56	1°33'49	minimum elong	16480 Apr 28 07:02	22° 8 37'31	0°40'46
morning rise	16479 May 21 11:58	3° Ⅱ 04'38		morning rise	16480 May 04 15:59	17° 8 08'46	
direct	16479 May 24 13:34	2° I 12'13		direct	16480 May 07 08:16	16° 8 31'17	
morning max el	16479 May 30 23:17	5° ∏ 34'27	18°19'05	morning max el	16480 May 13 15:35	19° 8 46'06	17°53'53
desc. node	16479 Jun 11 19:13	21° II 35'52	10 17 05	morning max or	16480 May 21 11:19	0°II	17 33 33
dese. Hode	16479 Jun 17 03:10	0°95		desc. node	16480 May 28 16:12	11° I I38'13	
morning set	16479 Jun 19 22:34	4° 9 27'52		morning set	16480 May 31 05:13	15° Ⅱ 51'01	
morning set	1047) Juli 19 22.54	7 32/32		morning set	16480 Jun 08 20:00	0°95	
superior conj	16479 Jul 05 10:23	28° © 51'21	-2°10'32		10400 Jun 00 20.00	0	
minimum elong	16479 Jul 05 05:44	28°933'13		superior conj	16480 Jun 14 02:54	8° © 29'17	1040'22
minimum ciong	16479 Jul 06 03:59	0°Ω	2 10 38	minimum elong	16480 Jun 13 18:24	7°955'27	
max. Earth dist.	16479 Jul 06 11:21	0°Ω28'39	1.46027 AU	max. Earth dist.	16480 Jun 18 07:14	15°905'34	1.45589 AU
evening rise	16479 Jul 21 11:05	23° Ω 49'37	1.40027 AU	max. Earth dist.	16480 Jun 27 21:51	0°Ω	1.43369 AU
evening rise	16479 Jul 25 10:05	0°M)		avanina riaa	16480 Jun 30 01:58	3° Ω 19'43	
araataat brillianay	16479 Jul 23 10:05	0 iyi 9°Mp19'47	0.9	evening rise greatest brilliancy		24°Ω58'56	0.65
greatest brilliancy			-0.8m	greatest brilliancy	16480 Jul 14 12:00		-0.6m
asc. node	16479 Aug 06 04:26 16479 Aug 13 01:06	17° Mp 47'53	1005(10)	4-	16480 Jul 18 00:41 16480 Jul 23 01:13	0° Mp 6° Mp 34'30	
evening max el		26° Mp 16'57	18°56'06	asc. node			10047120
retrograde	16479 Aug 19 19:00	29° m 58'11		evening max el	16480 Jul 26 07:20	10° Mp 11'00	19°47'20
evening set	16479 Aug 23 04:41	28° Mp 51'22	202.4140	retrograde	16480 Aug 02 17:26	14° m 20'53	
inferior conj	16479 Aug 28 17:22	23° Mp 06'10	2°34'40	evening set	16480 Aug 06 13:20	12° m 56'15	2057104
minimum elong	16479 Aug 28 19:25	22° m 59'39	2°34'05	inferior conj	16480 Aug 11 21:01	6° m 58'43	2°57'04
min. Earth dist.	16479 Aug 30 09:20	20° m 59'15	0.66577 AU	minimum elong	16480 Aug 11 22:21	6° m 54'15	2°56'35
morning rise	16479 Sep 03 09:16	16° mp 39'10		min. Earth dist.	16480 Aug 12 23:08	5° mp 31'07	0.67911 AU
desc. node	16479 Sep 07 17:07	14° To 16'00		morning rise	16480 Aug 17 06:53	0° m/32'29	
direct	16479 Sep 09 13:06	14° Mp 02'54			16480 Aug 17 22:26	30°R€	
morning max el	16479 Sep 22 09:41	21° Tp 41'00	26°16'26	direct	16480 Aug 23 00:22	28° Ω 03'01	
	16479 Sep 29 16:14	0∘ ⊽		desc. node	16480 Aug 24 14:27	28° £ 13′03	
	16479 Oct 19 22:24	0° M			16480 Aug 28 17:39	0° m)	
morning set	16479 Oct 28 07:18	14°M50'38		morning max el	16480 Sep 03 20:45	5°Mp08'36	24°56'13
max. Earth dist.	16479 Nov 01 02:26	22°M05'24	1.34803 AU		16480 Sep 23 01:52	0∘ ⊽	
asc. node	16479 Nov 02 05:26	24°M17'54		morning set	16480 Oct 09 14:42	26° ≏ 52'19	
	16479 Nov 05 01:40	0°⊀			16480 Oct 11 08:45	0° M	
				max. Earth dist.	16480 Oct 13 03:07	3° M ₁2'37	1.37008 AU
superior conj	16479 Nov 06 10:45	2° х 49′10	0°37'35	asc. node	16480 Oct 19 02:15	14°M30'07	
minimum elong	16479 Nov 06 08:50	2° ∡ ³39'19	0°37'46				
evening rise	16479 Nov 13 22:57	18° ∡ ³31′25		superior conj	16480 Oct 19 22:06	16°M07'15	0°07'26
	16479 Nov 19 15:19	0°ප		minimum elong	16480 Oct 19 21:37	16°M04'50	0°07'45
evening max el	16479 Dec 02 22:29	19° る 53'05	20°50'31	behind sun begin	16480 Oct 19 15:50	15°M36'30	
desc. node	16479 Dec 04 15:03	21° る 26'15		behind sun end	16480 Oct 20 03:24	16°M33'14	
retrograde	16479 Dec 14 08:56	25° る 33'05			16480 Oct 26 20:11	0° ∡ ¹	
evening set	16479 Dec 16 22:29	25° る 17'16		evening rise	16480 Oct 28 03:49	2° ∡ ¹40'07	
inferior conj	16479 Dec 25 16:52	21° る 25'41			16480 Nov 13 10:09	5°0	
minimum elong	16479 Dec 25 08:59	21° る 36'58	5°34'33	evening max el	16480 Nov 14 06:44	0° る 53'42	19°35'33

desc. node	16480 Nov 20 12:06	5° る 09'13		evening set	16481 Nov 07 10:17	16° ∡ 744'23	
retrograde	16480 Nov 24 01:47	5° る 47'28		desc. node	16481 Nov 07 09:15	16° x ¹ 44'56	
•	16480 Nov 26 01:24	5° る 36'21		inferior conj		10 x 44 30	2026122
evening set			4010112	,	16481 Nov 15 12:38		
inferior conj	16480 Dec 04 17:03	1°る32'32		minimum elong	16481 Nov 15 06:18	12° ₹ 31'58	
minimum elong	16480 Dec 04 07:15	1°る48'04		min. Earth dist.	16481 Nov 18 14:29	10° √ 04'49	0.57034 AU
min. Earth dist.	16480 Dec 07 01:23		0.55377 AU	morning rise	16481 Nov 22 23:15	7° 🗷 25'34	
	16480 Dec 07 03:29	30°₹ ⋌		direct	16481 Nov 29 00:39	5° ₹ 56'11	
morning rise	16480 Dec 12 11:20	27° ∡ 13′28		morning max el	16481 Dec 13 05:19	13° ∡ 18'32	26°36'22
direct	16480 Dec 17 19:00	26° ∡ 10′15			16481 Dec 26 09:09	0°ಕ	
	16480 Dec 27 22:49	0°₹		asc. node	16482 Jan 01 22:51	11° ට 03'09	
morning max el	16480 Dec 31 16:37	3° る 09'15	25°03'15	morning set	16482 Jan 11 10:00	29° පි 55'11	
asc. node	16481 Jan 15 01:41	22° る 15'47			16482 Jan 11 10:53	0° ≈	
	16481 Jan 19 09:47	0° ≈					
morning set	16481 Jan 26 23:36	15° ≈ 23'45		superior conj	16482 Jan 18 04:03		1°38'11
				minimum elong	16482 Jan 18 04:10		1°38'40
superior conj	16481 Feb 02 17:20	0° ¥ 13′03	1°34'24	max. Earth dist.	16482 Jan 18 20:24	16° ≈ 22'31	1.31180 AU
minimum elong	16481 Feb 02 18:30	0° ∺ 19'29	1°34'42	evening rise	16482 Jan 25 02:26	0°) €02'23	
	16481 Feb 02 14:58	0° ∀			16482 Jan 25 01:59	0° ∀	
max. Earth dist.	16481 Feb 04 14:16	4°) (19′46	1.31927 AU	desc. node	16482 Feb 03 08:57	18°) 1 4′22	
evening rise	16481 Feb 10 00:53	15°) €53'43			16482 Feb 10 09:16	0 ° $\mathbf{\Upsilon}$	
desc. node	16481 Feb 16 12:13	28°) 33′39		evening max el	16482 Feb 25 11:33	19° Ƴ 10'34	27°20'21
	16481 Feb 17 06:57	0° Y		retrograde	16482 Mar 11 12:16	26° Ƴ 32'00	
	16481 Mar 08 22:08	9° 8		evening set	16482 Mar 18 05:15	24° Ƴ 31'18	
evening max el	16481 Mar 15 04:20	6° ႘ 50′05	27°36'51	min. Earth dist.	16482 Mar 22 01:39	21° Y 45'02	0.60519 AU
retrograde	16481 Mar 29 02:33	14° 8 20'30		inferior conj	16482 Mar 25 06:39	18° Ƴ 59'56	-1°47'21
evening set	16481 Apr 04 21:45	12° 8 01'55		minimum elong	16482 Mar 25 10:38	18° Ƴ 51'21	1°45'53
min. Earth dist.	16481 Apr 08 16:01	8° 8 55'59	0.62761 AU	asc. node	16482 Mar 30 20:29	14° Ƴ 55'52	
inferior conj	16481 Apr 11 14:35	6° 8 03'24	-0°25'54	morning rise	16482 Apr 01 19:29	14° Ƴ 09'11	
minimum elong	16481 Apr 11 15:26	6° 8 01'18	0°25'53	direct	16482 Apr 03 21:27	13° Y 51'30	
asc. node	16481 Apr 12 23:11	4° 8 44'46		morning max el	16482 Apr 11 00:59	17° Ƴ 25'59	17°56'51
morning rise	16481 Apr 18 11:59	0° 8 53'41		C	16482 Apr 20 00:04	0°B	
direct	16481 Apr 20 20:13	0° 8 27'50		morning set	16482 Apr 26 15:09	11° 8 50'11	
morning max el	16481 Apr 27 09:15	3° 8 46'47	17°46'12	desc. node	16482 May 02 10:00	22° 8 20'45	
morning set	16481 May 13 12:43	28° 8 24'42			16482 May 06 17:41	0°II	
8	16481 May 14 10:39	0°II					
desc. node	16481 May 15 13:08	1° Ⅱ 55'01		superior conj	16482 May 07 03:11	0° Ⅱ 41'24	-0°38'17
				minimum elong	16482 May 06 23:52	0° Ⅱ 26'58	0°38'16
superior conj	16481 May 25 15:20	19° Ⅱ 03'31	-1°16'00	max. Earth dist.	16482 May 14 15:03	13° Ⅱ 23'04	1.42735 AU
minimum elong	16481 May 25 08:24	18° ∏ 34'47		evening rise	16482 May 20 11:57	22° I 51'46	12/50110
max. Earth dist.	16481 Jun 01 01:04	29° I I28'38		evening rise	16482 May 25 01:48	0°9	
max. Dartii dist.	16481 Jun 01 08:55	0°95	1.11137710		16482 Jun 15 02:59	0° U	
evening rise	16481 Jun 09 13:02	12°9547'47		evening max el	16482 Jun 22 02:12	8° Ω 00'47	22°08'17
evening rise	16481 Jun 20 23:46	0°Ω		asc. node	16482 Jun 26 18:58	11° Ω 55'17	22 00 17
evening max el	16481 Jul 09 07:34	24° Ω 06'14	20°52'33	retrograde	16482 Jul 01 14:24	13° Ω 33'48	
asc. node	16481 Jul 09 22:03	24° Ω 41'32	20 32 33	evening set	16482 Jul 06 08:39	11° Ω 34'13	
retrograde	16481 Jul 17 16:26	28°Ω54'45		inferior conj	16482 Jul 11 14:35		3°06'15
evening set	16481 Jul 21 23:16	27° Ω 12'07		minimum elong	16482 Jul 11 14:03	5° Ω 17'39	3°05'41
inferior conj	16481 Jul 27 04:49	21° Ω 03'27	3°07'10	min. Earth dist.	16482 Jul 11 13:50	5° Ω 18'26	0.69167 AU
minimum elong	16481 Jul 27 05:14	21° Ω 02'01	3°06'42	mm. Earth dist.	16482 Jul 15 18:12	30°R≌	0.07107110
min. Earth dist.	16481 Jul 27 17:21	20° Ω 20'06	0.68785 AU	morning rise	16482 Jul 16 19:18	29°500'52	
morning rise	16481 Aug 01 10:55	14° Ω 41'42	0.00703710	direct	16482 Jul 21 12:52	27° 5 00'32	
direct	16481 Aug 06 16:41	12° Ω 25'13		direct	16482 Jul 28 03:30	0°Ω	
desc. node	16481 Aug 11 11:46	13° Ω 56'53		desc. node	16482 Jul 29 09:03	1° Ω 03'15	
morning max el	16481 Aug 17 07:53	18° Ω 45'06	23°27'50	morning max el	16482 Jul 30 21:28	2°Ω30'06	22°00'06
morning max ci	16481 Aug 26 19:27	0°m)	23 27 30	morning max ci	16482 Aug 20 17:48	0° m)	22 00 00
	16481 Sep 16 04:21	0∘ ত المار		morning set	16482 Sep 01 12:56	עווי ט 18° m) 10'18	
morning set	16481 Sep 21 01:33	ა 8° ჲ 00'53		max. Earth dist.	16482 Sep 07 04:53	27° m) 23'51	1.41761 AU
•	=		1 20422 ATT	max. Lartii dist.	=	0∘ ⊽	1.41/01 AO
max. Earth dist.	16481 Sep 25 01:56	14° ≏ 52'03	1.39423 AU		16482 Sep 08 18:17	v ==	
superior comi	16/81 Oct 02 10:42	280. 0 .47127	0°27'27	superior com:	16482 Can 14 22:10	10° ₽ 39'31	1004'25
superior conj	16481 Oct 02 19:43	28° Ω 47'26		superior conj minimum elong	16482 Sep 14 23:10	10° 22 3931	
minimum elong	16481 Oct 02 21:44	28° Ω 56'52	0 2031	C	16482 Sep 15 04:29		1 03 44
000 m-J-	16481 Oct 03 11:17	0°M		asc. node	16482 Sep 22 19:46	24° <u>Ω</u> 49'39	
asc. node	16481 Oct 05 23:01	4°M41'54		evening rise	16482 Sep 25 13:51	29° ♀ 54'40	
evening rise	16481 Oct 12 01:57	16°M30'50			16482 Sep 25 15:00	0°M	1001200
	16481 Oct 19 06:25	0° 🗷	10042102	evening max el	16482 Oct 11 12:17		18°12'08
evening max el	16481 Oct 28 04:37	12° x ⁷ 44'31	18°43'02	retrograde	16482 Oct 18 18:09	29°M00'42	
retrograde	16481 Nov 05 12:15	16° ∡ 757'01		evening set	16482 Oct 20 20:58	28°M42'15	

desc. node	16482 Oct 25 06:26	26°M22'06		retrograde	16483 Oct 01 15:56	11° M 49'31	
inferior conj	16482 Oct 28 06:05	23°M56'38	0057130	evening set	16483 Oct 04 02:12	11°ML21'22	
minimum elong	16482 Oct 28 04:00	24°ML01'09	0°56'17	inferior conj	16483 Oct 10 18:54	6°M16'14	0°25'32
min. Earth dist.	16482 Oct 31 11:55	21°M10'02	0.59151 AU	minimum elong	16483 Oct 10 19:41	6°M14'18	0°25'33
morning rise	16482 Nov 04 07:38	18°M26'17	0.37131 AO	desc. node	16483 Oct 12 03:41	4°M54'35	0 23 33
direct	16482 Nov 10 19:46	16°M30'53		min. Earth dist.	16483 Oct 12 03:41	3°M18'11	0.61446 AU
morning max el	16482 Nov 25 02:32	24°M12'38	27027125	morning rise	16483 Oct 17 10:18	0°M18'08	0.01440 AU
morning max er	16482 Nov 30 09:21	0° x ¹	21 31 23	morning rise	16483 Oct 17 10.18	0 1161000 30°R ≏	
asc. node		0 x・ 0°る21'19		direct	16483 Oct 17 21.18 16483 Oct 24 02:47	30 K== 28° £ 00'46	
asc. node	16482 Dec 19 19:57			direct			
	16482 Dec 19 15:27	0°る			16483 Oct 30 19:05	0°M,	27050116
morning set	16482 Dec 26 17:04	14°る13'49	1 20060 411	morning max el	16483 Nov 07 07:06	5°M55'51	2/*59/16
max. Earth dist.	16483 Jan 02 04:09	28° る 24'50	1.30968 AU	,	16483 Nov 25 11:20	0° √ ¹	
				asc. node	16483 Dec 06 16:59	20° ₹ '01'08	
superior conj	16483 Jan 02 15:28	29°₹28'10	1°35'56	morning set	16483 Dec 10 18:44	28° ∡ 13'37	
minimum elong	16483 Jan 02 14:33	29° る 23'04	1°36'28		16483 Dec 11 15:08	0°る	
	16483 Jan 02 21:08	0° ≈		max. Earth dist.	16483 Dec 16 09:28	10° る 15'55	1.31311 AU
evening rise	16483 Jan 09 08:58	14° ≈ 22'00				_	
	16483 Jan 17 02:19	0° ∀		superior conj	16483 Dec 18 01:40	13° る 58'09	1°27'36
desc. node	16483 Jan 21 05:44	7° ¥ 26′22		minimum elong	16483 Dec 17 23:53	13° ප් 48'16	1°28'03
	16483 Feb 06 19:19	0° Y		evening rise	16483 Dec 24 18:27	28° る 46'58	
evening max el	16483 Feb 07 11:32	0° Ƴ 39'14	26°28'33		16483 Dec 25 07:59	0° ≈	
retrograde	16483 Feb 21 11:35	7° Ƴ 49'08		desc. node	16484 Jan 08 02:32	25° ≈ 58′24	
evening set	16483 Feb 27 19:17	6° Ƴ 12'09			16484 Jan 10 18:34	0° ∀	
min. Earth dist.	16483 Mar 04 00:57	3° Y '34'24	0.58285 AU	evening max el	16484 Jan 20 03:01	11° ∺ 15'34	25°05'51
inferior conj	16483 Mar 07 04:34	1° Ƴ 13'57	-3°18'16	retrograde	16484 Feb 02 22:54	18° ∺ 11'24	
minimum elong	16483 Mar 07 12:12	0° Ƴ 59'43	3°15'29	evening set	16484 Feb 08 12:25	17° ₩ 01'58	
	16483 Mar 08 21:02	30° Ŗ ₩		min. Earth dist.	16484 Feb 13 15:28	14° ¥ 17′23	0.56319 AU
morning rise	16483 Mar 15 08:35	26°) 44'40		inferior conj	16484 Feb 16 05:31	12°) 37′09	-4°46'23
direct	16483 Mar 17 07:24	26°) 31'39		minimum elong	16484 Feb 16 15:00	12°) €21'48	4°43'39
asc. node	16483 Mar 17 17:46	26° ¥ 32'18		morning rise	16484 Feb 24 20:13	8° ∺ 28'57	
	16483 Mar 24 21:04	0° Y		direct	16484 Feb 26 22:11	8° ₩ 16'38	
morning max el	16483 Mar 25 11:02	0° Y 33'03	18°27'13	asc. node	16484 Mar 03 15:03	9° ₩ 55'40	
morning set	16483 Apr 10 07:05	25° Y ′51'12		morning max el	16484 Mar 07 11:12	12° ¥ 55'59	19°19'16
C	16483 Apr 12 11:03	0°B		C	16484 Mar 19 01:23	0° Y	
desc. node	16483 Apr 19 06:47	12° 8 51'18		morning set	16484 Mar 24 08:13	10° Y 15′13	
	•						
superior conj	16483 Apr 19 12:09	13° 8 15'57	-0°01'53	superior conj	16484 Apr 01 13:53	26° Ƴ 34'52	0°30'05
minimum elong	16483 Apr 19 11:59	13° 8 15'11	0°02'15	minimum elong	16484 Apr 01 15:38	26° Ƴ 43'19	0°29'33
behind sun begin	16483 Apr 19 04:50	12° 8 42'20		•	16484 Apr 03 08:34	0° ႘	
behind sun end	16483 Apr 19 19:07	13° 8 47'58		desc. node	16484 Apr 05 03:33	3° 8 23'09	
max. Earth dist.	16483 Apr 27 00:02	26° 8 35'54	1.40604 AU	max. Earth dist.	16484 Apr 08 05:51	9° 8 05'28	1.38302 AU
					10 1 01 Apr 00 05.51	9 003 28	
avanina riaa	16483 Apr 28 23:59	Π $^{\circ}$ 0		evening rise	-	_	
evening rise	16483 Apr 28 23:59 16483 May 01 06:58	0° Ц 3° Ц 49'37		evening rise	16484 Apr 11 23:03	15° 8 41'36	
evening rise	16483 May 01 06:58	3° Ⅱ 49'37		evening rise	16484 Apr 11 23:03 16484 Apr 20 13:32	15° 8 41'36 0° Ⅱ	
-	16483 May 01 06:58 16483 May 18 07:09	3°∏49'37 0°©	23°29'32	, and the second	16484 Apr 11 23:03 16484 Apr 20 13:32 16484 May 11 22:03	15° 8 41'36 0°Ⅲ 0°©	24°49'52
evening max el	16483 May 01 06:58 16483 May 18 07:09 16483 Jun 04 17:02	3°∏49'37 0°© 21°©55'21	23°29'32	evening max el	16484 Apr 11 23:03 16484 Apr 20 13:32 16484 May 11 22:03 16484 May 17 06:29	15°841'36 0°Ⅲ 0°© 5°©50'43	24°49'52
evening max el asc. node	16483 May 01 06:58 16483 May 18 07:09 16483 Jun 04 17:02 16483 Jun 13 15:55	3°∏49'37 0°© 21°©55'21 27°©59'17	23°29'32	evening max el retrograde	16484 Apr 11 23:03 16484 Apr 20 13:32 16484 May 11 22:03 16484 May 17 06:29 16484 May 29 01:55	15° 8 41'36 0°Ⅲ 0°໑ 5°໑50'43 12°໑44'02	24°49'52
evening max el asc. node retrograde	16483 May 01 06:58 16483 May 18 07:09 16483 Jun 04 17:02 16483 Jun 13 15:55 16483 Jun 15 09:57	3°II49'37 0°S 21°S55'21 27°S59'17 28°S12'21	23°29'32	evening max el retrograde asc. node	16484 Apr 11 23:03 16484 Apr 20 13:32 16484 May 11 22:03 16484 May 17 06:29 16484 May 29 01:55 16484 May 30 12:55	15° 8 41'36 0°II 0°© 5°©50'43 12°©44'02 12°©35'10	24°49'52
evening max el asc. node retrograde evening set	16483 May 01 06:58 16483 May 18 07:09 16483 Jun 04 17:02 16483 Jun 13 15:55 16483 Jun 15 09:57 16483 Jun 20 15:49	3°II49'37 0°© 21°©55'21 27°©59'17 28°©12'21 25°©58'09		evening max el retrograde asc. node evening set	16484 Apr 11 23:03 16484 Apr 20 13:32 16484 May 11 22:03 16484 May 17 06:29 16484 May 29 01:55 16484 May 30 12:55 16484 Jun 03 19:09	15° 841'36 0° II 0° 95 5° 9550'43 12° 954'02 12° 935'10 10° 9518'52	
evening max el asc. node retrograde evening set min. Earth dist.	16483 May 01 06:58 16483 May 18 07:09 16483 Jun 04 17:02 16483 Jun 13 15:55 16483 Jun 15 09:57 16483 Jun 20 15:49 16483 Jun 25 10:35	3°II49'37 0°S 21°S55'21 27°S59'17 28°S12'21 25°S58'09 20°S19'43	0.69051 AU	evening max el retrograde asc. node evening set min. Earth dist.	16484 Apr 11 23:03 16484 Apr 20 13:32 16484 May 11 22:03 16484 May 17 06:29 16484 May 29 01:55 16484 May 30 12:55 16484 Jun 03 19:09 16484 Jun 08 05:32	15°841'36 0°II 0°S 5°S50'43 12°S44'02 12°S35'10 10°S18'52 5°S17'39	0.68445 AU
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evening max el asc. node retrograde evening set min. Earth dist. inferior conj minimum elong	16483 May 01 06:58 16483 May 18 07:09 16483 Jun 04 17:02 16483 Jun 13 15:55 16483 Jun 15 09:57 16483 Jun 20 15:49 16483 Jun 25 10:35 16483 Jun 26 00:24 16483 Jun 25 23:02	3°II49'37 0°S 21°S55'21 27°S59'17 28°S12'21 25°S58'09 20°S19'43 19°S32'09 19°S36'53	0.69051 AU	evening max el retrograde asc. node evening set min. Earth dist.	16484 Apr 11 23:03 16484 Apr 20 13:32 16484 May 11 22:03 16484 May 17 06:29 16484 May 29 01:55 16484 May 30 12:55 16484 Jun 03 19:09 16484 Jun 08 05:32 16484 Jun 09 08:23 16484 Jun 09 06:24	15°841'36 0°II 0°S 5°S50'43 12°S44'02 12°S35'10 10°S18'52 5°S17'39 3°S48'33 3°S55'09	0.68445 AU 2°32'58
evening max el asc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	16483 May 01 06:58 16483 May 18 07:09 16483 Jun 04 17:02 16483 Jun 13 15:55 16483 Jun 15 09:57 16483 Jun 20 15:49 16483 Jun 25 10:35 16483 Jun 26 00:24 16483 Jun 25 23:02 16483 Jul 01 06:13	3°II49'37 0°© 21°©55'21 27°©59'17 28°©12'21 25°©58'09 20°©19'43 19°©32'09 19°©36'53 13°©25'27	0.69051 AU 2°54'53	evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong	16484 Apr 11 23:03 16484 Apr 20 13:32 16484 May 11 22:03 16484 May 17 06:29 16484 May 29 01:55 16484 May 30 12:55 16484 Jun 03 19:09 16484 Jun 08 05:32 16484 Jun 09 08:23 16484 Jun 09 06:24 16484 Jun 12 09:51	15°841'36 0°II 0°© 5°©50'43 12°©44'02 12°©35'10 10°©18'52 5°©17'39 3°©48'33 3°©55'09 30°RII	0.68445 AU 2°32'58
evening max el asc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	16483 May 01 06:58 16483 May 18 07:09 16483 Jun 04 17:02 16483 Jun 13 15:55 16483 Jun 15 09:57 16483 Jun 20 15:49 16483 Jun 25 10:35 16483 Jun 26 00:24 16483 Jun 25 23:02 16483 Jul 01 06:13 16483 Jul 05 11:42	3°II49'37 0°S 21°S55'21 27°S59'17 28°S12'21 25°S58'09 20°S19'43 19°S32'09 19°S36'53 13°S25'27 11°S45'12	0.69051 AU 2°54'53 2°54'06	evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong	16484 Apr 11 23:03 16484 Apr 20 13:32 16484 May 11 22:03 16484 May 17 06:29 16484 May 29 01:55 16484 May 30 12:55 16484 Jun 03 19:09 16484 Jun 08 05:32 16484 Jun 09 08:23 16484 Jun 09 06:24 16484 Jun 12 09:51 16484 Jun 14 17:53	15°841'36 0°II 0°© 5°©50'43 12°©44'02 12°©35'10 10°©18'52 5°©17'39 3°©48'33 3°©55'09 30°RII 27°II51'19	0.68445 AU 2°32'58
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evening max el asc. node retrograde 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	16483 May 01 06:58 16483 May 18 07:09 16483 Jun 04 17:02 16483 Jun 13 15:55 16483 Jun 20 15:49 16483 Jun 25 10:35 16483 Jun 26 00:24 16483 Jun 25 23:02 16483 Jul 01 06:13 16483 Jul 05 11:42 16483 Jul 13 16:14 16483 Jul 13 16:14 16483 Jul 24 14:55 16483 Aug 12 02:50 16483 Aug 13 18:20 16483 Aug 27 04:25 16483 Aug 27 04:25 16483 Aug 27 12:13 16483 Sep 01 04:09	3° II 49'37 0° © 21° © 55'21 27° © 59'17 28° © 12'21 25° © 58'09 20° © 19'43 19° © 33'09 19° © 36'53 13° © 25'27 11° © 45'12 16° © 25'10 19° © 11'36 0° Ω 27° Ω 26'42 0° III 10° III 46'44 21° IIII 34'41 22° IIII 07'13 0° Ω	0.69051 AU 2°54'53 2°54'06 20°40'08 1.43756 AU -1°39'28	evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist.	16484 Apr 11 23:03 16484 Apr 20 13:32 16484 May 11 22:03 16484 May 17 06:29 16484 May 29 01:55 16484 May 30 12:55 16484 Jun 03 19:09 16484 Jun 09 08:23 16484 Jun 09 06:24 16484 Jun 12 09:51 16484 Jun 14 17:53 16484 Jun 18 11:55 16484 Jun 25 05:05 16484 Jun 25 05:05 16484 Jun 25 17:54 16484 Jul 02 03:26 16484 Jul 08 12:14 16484 Jul 17 03:04 16484 Jul 21 07:14 16484 Aug 02 04:48 16484 Aug 05 10:56	15°841'36 0°II 0°S 5°S50'43 12°S44'02 12°S35'10 10°S18'52 5°S17'39 3°S48'33 3°S55'09 30°RII 27°II51'19 26°II30'32 0°S 0°S30'40 8°S05'51 17°S04'55 0°I 6°I22'38 24°I51'00 0°II	0.68445 AU 2°32'58 2°31'55 19°32'56 -0.6m
evening max el asc. node retrograde 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	16483 May 01 06:58 16483 May 18 07:09 16483 Jun 04 17:02 16483 Jun 13 15:55 16483 Jun 20 15:49 16483 Jun 25 10:35 16483 Jun 26 00:24 16483 Jun 25 23:02 16483 Jul 01 06:13 16483 Jul 01 06:13 16483 Jul 13 16:14 16483 Jul 13 16:14 16483 Jul 24 14:55 16483 Aug 12 02:50 16483 Aug 13 18:20 16483 Aug 27 04:25 16483 Aug 27 04:25 16483 Aug 27 04:25 16483 Aug 27 04:25 16483 Aug 27 12:13 16483 Sep 01 04:09 16483 Sep 08 10:57	3° II 49'37 0° © 21° © 55'21 27° © 59'17 28° © 12'21 25° © 58'09 20° © 19'43 19° © 33'09 19° © 36'53 13° © 25'27 11° © 45'12 16° © 25'10 19° © 11'36 0° Ω 27° Ω 26'42 0° III 10° III 46'44 21° III 34'41 22° III 07'13 0° Ω 12° Ω 39'31	0.69051 AU 2°54'53 2°54'06 20°40'08 1.43756 AU -1°39'28	evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist.	16484 Apr 11 23:03 16484 Apr 20 13:32 16484 May 11 22:03 16484 May 17 06:29 16484 May 29 01:55 16484 May 30 12:55 16484 Jun 03 19:09 16484 Jun 09 08:23 16484 Jun 09 06:24 16484 Jun 12 09:51 16484 Jun 14 17:53 16484 Jun 18 11:55 16484 Jun 25 05:05 16484 Jun 25 05:05 16484 Jun 25 17:54 16484 Jul 02 03:26 16484 Jul 08 12:14 16484 Jul 17 03:04 16484 Jul 21 07:14 16484 Aug 02 04:48 16484 Aug 05 10:56	15° 841'36 0° II 0° 95 5° 950'43 12° 9544'02 12° 935'10 10° 918'52 5° 917'39 3° 948'33 3° 955'09 30° RII 27° II 51'19 26° II 30'32 0° 95 0° 930'40 8° 905'51 17° 904'55 0° \$\$\text{\$\tex{	0.68445 AU 2°32'58 2°31'55 19°32'56 -0.6m 1.45196 AU
evening max el asc. node retrograde 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	16483 May 01 06:58 16483 May 18 07:09 16483 Jun 04 17:02 16483 Jun 13 15:55 16483 Jun 20 15:49 16483 Jun 25 10:35 16483 Jun 26 00:24 16483 Jun 25 23:02 16483 Jul 01 06:13 16483 Jul 05 11:42 16483 Jul 13 16:14 16483 Jul 16 06:17 16483 Jul 24 14:55 16483 Aug 12 02:50 16483 Aug 13 18:20 16483 Aug 27 04:25 16483 Sep 01 04:09 16483 Sep 08 10:57 16483 Sep 09 16:28	3° II 49'37 0° © 21° © 55'21 27° © 59'17 28° © 12'21 25° © 58'09 20° © 19'43 19° © 33'09 19° © 36'53 13° © 25'27 11° © 45'12 16° © 25'10 19° © 11'36 0° Ω 27° Ω 26'42 0° ID 10° ID 46'44 21° ID 34'41 22° ID 07'13 0° Ω 12° Ω 39'31 14° Ω 49'08	0.69051 AU 2°54'53 2°54'06 20°40'08 1.43756 AU -1°39'28	evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist.	16484 Apr 11 23:03 16484 Apr 20 13:32 16484 May 11 22:03 16484 May 17 06:29 16484 May 29 01:55 16484 May 30 12:55 16484 Jun 03 19:09 16484 Jun 09 08:23 16484 Jun 09 06:24 16484 Jun 12 09:51 16484 Jun 12 11:55 16484 Jun 18 11:55 16484 Jun 25 05:05 16484 Jun 25 17:54 16484 Jul 02 03:26 16484 Jul 08 12:14 16484 Jul 17 03:04 16484 Jul 21 07:14 16484 Aug 05 10:56 16484 Aug 06 10:31 16484 Aug 06 10:31	15° 841'36 0° II 0° 95 5° 950'43 12° 9544'02 12° 935'10 10° 918'52 5° 917'39 3° 948'33 3° 955'09 30° RII 27° II 51'19 26° II 30'32 0° 96 0° 930'40 8° 905'51 17° 904'55 0° \$\alpha\$ 6° \$\alpha\$22'38 24° \$\alpha\$51'00 0° ID 1° ID 33'51 1° ID 59'39	0.68445 AU 2°32'58 2°31'55 19°32'56 -0.6m 1.45196 AU
evening max el asc. node retrograde 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	16483 May 01 06:58 16483 May 18 07:09 16483 Jun 04 17:02 16483 Jun 13 15:55 16483 Jun 20 15:49 16483 Jun 25 10:35 16483 Jun 26 00:24 16483 Jun 25 23:02 16483 Jul 01 06:13 16483 Jul 05 11:42 16483 Jul 13 16:14 16483 Jul 16 06:17 16483 Jul 24 14:55 16483 Aug 12 02:50 16483 Aug 13 18:20 16483 Aug 27 04:25 16483 Aug 27 04:25 16483 Aug 27 04:25 16483 Aug 27 04:25 16483 Sep 01 04:09 16483 Sep 08 10:57 16483 Sep 09 16:28 16483 Sep 09 16:28	3° II 49'37 0° II 49'37 0° II 21° II 25° II 25′ II	0.69051 AU 2°54'53 2°54'06 20°40'08 1.43756 AU -1°39'28 1°38'46	evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist.	16484 Apr 11 23:03 16484 Apr 20 13:32 16484 May 11 22:03 16484 May 17 06:29 16484 May 29 01:55 16484 May 30 12:55 16484 Jun 03 19:09 16484 Jun 09 08:23 16484 Jun 09 06:24 16484 Jun 12 09:51 16484 Jun 12 09:51 16484 Jun 18 11:55 16484 Jun 25 05:05 16484 Jun 25 17:54 16484 Jul 02 03:26 16484 Jul 08 12:14 16484 Jul 17 03:04 16484 Jul 21 07:14 16484 Aug 05 10:56 16484 Aug 06 10:31 16484 Aug 06 16:59 16484 Aug 06 16:59 16484 Aug 06 16:59	15° 841'36 0° II 0° 95 5° 950'43 12° 9544'02 12° 935'10 10° 918'52 5° 917'39 3° 948'33 3° 955'09 30° RII 27° II 51'19 26° II 30'32 0° 95 0° 930'40 8° 905'51 17° 904'55 0° \$\textit{Q}\$ 6° \$\textit{Q}\$22'38 24° \$\textit{Q}\$51'00 0° ID 1° ID 33'51 1° ID 59'39 24° ID 32'39	0.68445 AU 2°32'58 2°31'55 19°32'56 -0.6m 1.45196 AU
evening max el asc. node retrograde 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	16483 May 01 06:58 16483 May 18 07:09 16483 Jun 04 17:02 16483 Jun 13 15:55 16483 Jun 20 15:49 16483 Jun 25 10:35 16483 Jun 26 00:24 16483 Jun 25 23:02 16483 Jul 01 06:13 16483 Jul 05 11:42 16483 Jul 13 16:14 16483 Jul 16 06:17 16483 Jul 24 14:55 16483 Aug 12 02:50 16483 Aug 13 18:20 16483 Aug 27 04:25 16483 Sep 01 04:09 16483 Sep 08 10:57 16483 Sep 09 16:28	3° II 49'37 0° © 21° © 55'21 27° © 59'17 28° © 12'21 25° © 58'09 20° © 19'43 19° © 33'09 19° © 36'53 13° © 25'27 11° © 45'12 16° © 25'10 19° © 11'36 0° Ω 27° Ω 26'42 0° ID 10° ID 46'44 21° ID 34'41 22° ID 07'13 0° Ω 12° Ω 39'31 14° Ω 49'08	0.69051 AU 2°54'53 2°54'06 20°40'08 1.43756 AU -1°39'28	evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist.	16484 Apr 11 23:03 16484 Apr 20 13:32 16484 May 11 22:03 16484 May 17 06:29 16484 May 29 01:55 16484 May 30 12:55 16484 Jun 03 19:09 16484 Jun 09 08:23 16484 Jun 09 06:24 16484 Jun 12 09:51 16484 Jun 12 11:55 16484 Jun 18 11:55 16484 Jun 25 05:05 16484 Jun 25 17:54 16484 Jul 02 03:26 16484 Jul 08 12:14 16484 Jul 17 03:04 16484 Jul 21 07:14 16484 Aug 05 10:56 16484 Aug 06 10:31 16484 Aug 06 10:31	15° 841'36 0° II 0° 95 5° 950'43 12° 9544'02 12° 935'10 10° 918'52 5° 917'39 3° 948'33 3° 955'09 30° RII 27° II 51'19 26° II 30'32 0° 96 0° 930'40 8° 905'51 17° 904'55 0° \$\alpha\$ 6° \$\alpha\$22'38 24° \$\alpha\$51'00 0° ID 1° ID 33'51 1° ID 59'39	0.68445 AU 2°32'58 2°31'55 19°32'56 -0.6m 1.45196 AU

asc. node	16484 Aug 26 13:11	4° £ 36'31		evening max el	16485 Aug 22 06:01	5° £ 39'14	18°33'57
evening max el	16484 Sep 07 16:29	21° £ 54'23	18°08'41	retrograde	16485 Aug 28 17:58	9° ≏ 08'56	10 33 37
retrograde	16484 Sep 14 01:10	25° £ 15'13	10 00 41	evening set	16485 Aug 31 22:11	8° £ 11'50	
evening set	16484 Sep 16 20:06	24° £ 33'55		inferior conj	16485 Sep 06 15:10	2° £ 34'31	2°15'25
•	16484 Sep 22 23:14	19° £ 11'40	1°29'29	minimum elong	16485 Sep 06 17:26	2° <u>₽</u> 27'35	2°14'47
inferior conj	16484 Sep 22 23.14 16484 Sep 23 01:20			Č	1	2 ≗ 2733 0° ₽ 08'44	0.65629 AU
minimum elong	1	19° £ 05'51	1°28'56	min. Earth dist.	16485 Sep 08 15:08		0.03029 AU
min. Earth dist.	16484 Sep 25 12:39	16° £ 21'47	0.63670 AU		16485 Sep 08 18:05	30°R, M)	
desc. node	16484 Sep 28 00:57	13° £ 52'55		morning rise	16485 Sep 12 11:30	26° m, 09'50	
morning rise	16484 Sep 29 04:34	12° £ 55'55		desc. node	16485 Sep 14 22:16	24° m/31'15	
direct	16484 Oct 05 19:38	10° £ 24'15		direct	16485 Sep 18 20:30	23° m/32'55	
morning max el	16484 Oct 19 16:18	18° ≙ 22'33	27°42'58		16485 Sep 30 17:58	0∘ ⊽	
	16484 Oct 29 12:05	0°M₊		morning max el	16485 Oct 02 03:30		26°54'59
	16484 Nov 17 08:56	0° ∡ ¹			16485 Oct 23 14:32	0° M	
asc. node	16484 Nov 22 13:57	9° ₰ 756'17		morning set	16485 Nov 06 20:01	24°M55'02	
morning set	16484 Nov 23 12:40	11° ₹ 49′23		asc. node	16485 Nov 09 10:51	0° ∡ '01'37	
max. Earth dist.	16484 Nov 28 08:38	21° ҂ ¹48'33	1.32233 AU		16485 Nov 09 10:32	0° ∡ ¹	
				max. Earth dist.	16485 Nov 10 22:56	3° ≯ 02'05	1.33721 AU
superior conj	16484 Dec 01 08:43	28° ₰ 16'07	1°13'05				
minimum elong	16484 Dec 01 06:24	28° ₹ 03'33	1°13'23	superior conj	16485 Nov 15 10:23	12° ∡ 16′38	0°52'19
_	16484 Dec 02 03:47	0°ರ		minimum elong	16485 Nov 15 08:06	12° ҂ 04'37	0°52'32
evening rise	16484 Dec 08 05:09	13° る 13'28		evening rise	16485 Nov 22 15:16	27° ∡ ³37'35	
Č	16484 Dec 16 12:38	0° ≈		C	16485 Nov 23 18:18	ი∘ჳ	
desc. node	16484 Dec 24 23:24	13° ≈ 36'18		desc. node	16485 Dec 11 20:21	0°≈01'34	
evening max el	16484 Dec 31 12:53	21°≈16'26	23°24'40	acce. noue	16485 Dec 11 19:46	0° ≈	
retrograde	16485 Jan 13 20:30	27°≈51'33	23 21 10	evening max el	16485 Dec 13 01:12	1°≈15'35	21°42'57
evening set	16485 Jan 18 07:10	27°≈08'51		retrograde	16485 Dec 25 07:19	7°≈18'54	21 4237
min. Earth dist.	16485 Jan 24 23:50	27 ≈ 59'18	0.54927 AU	evening set	16485 Dec 28 11:46	6°≈56'00	
	16485 Jan 26 10:14	23°≈09'26		_	16486 Jan 06 02:11	3°≈06'19	5050157
inferior conj				inferior conj			5°58'09
minimum elong	16485 Jan 26 15:59	23°≈01'06	3 4/41	minimum elong	16486 Jan 05 22:46	3°≈11'04	
morning rise	16485 Feb 04 02:09	19°≈16'59		min. Earth dist.	16486 Jan 06 05:01	3°≈02'21	0.54366 AU
direct	16485 Feb 06 18:07	18°≈59'49	2002 42 6		16486 Jan 12 07:10	30°Rる	
morning max el	16485 Feb 17 21:28	24°≈23'41	20°34'36	morning rise	16486 Jan 14 10:23	29° る 18'16	
asc. node	16485 Feb 18 12:22	25°≈00'44		direct	16486 Jan 18 02:42	28° පි 48'41	
	16485 Feb 22 16:52	0° ∺			16486 Jan 23 15:35	0° ≈	
morning set	16485 Mar 08 15:21	24°) 52′37		morning max el	16486 Jan 30 16:41	4° ≈ 55'10	22°11'39
	16485 Mar 11 02:42	$0^{\circ}\mathbf{Y}$		asc. node	16496 Eab 05 00:20	11° ≈ 30'30	
				ase. node	16486 Feb 05 09:39		
				use. Hode	16486 Feb 16 09:41	0° ∀	
superior conj	16485 Mar 16 04:13	10° Y ′26′23	0°56'10	morning set			
superior conj minimum elong		10° Υ 26'23 10° Υ 38'59	0°55'44		16486 Feb 16 09:41	0° ∀	
1 3	16485 Mar 16 04:13				16486 Feb 16 09:41	0° ∀	1°15'58
minimum elong	16485 Mar 16 04:13 16485 Mar 16 06:42	10° Ƴ 38'59	0°55'44	morning set	16486 Feb 16 09:41 16486 Feb 21 01:59	0° 光 9° 光 36'14	1°15'58 1°15'47
minimum elong max. Earth dist.	16485 Mar 16 04:13 16485 Mar 16 06:42 16485 Mar 21 13:23	10° Υ 38'59 21° Υ 05'52	0°55'44	morning set superior conj	16486 Feb 16 09:41 16486 Feb 21 01:59 16486 Feb 28 03:41	0° ₩ 9° ₩ 36'14 24° ₩ 41'01	
minimum elong max. Earth dist. desc. node	16485 Mar 16 04:13 16485 Mar 16 06:42 16485 Mar 21 13:23 16485 Mar 23 00:15	10° Υ 38'59 21° Υ 05'52 23° Υ 52'02	0°55'44	morning set superior conj	16486 Feb 16 09:41 16486 Feb 21 01:59 16486 Feb 28 03:41 16486 Feb 28 06:03	0°¥ 9°¥36'14 24°¥41'01 24°¥53'29	
minimum elong max. Earth dist. desc. node	16485 Mar 16 04:13 16485 Mar 16 06:42 16485 Mar 21 13:23 16485 Mar 23 00:15 16485 Mar 25 09:38	10°Υ38'59 21°Υ05'52 23°Υ52'02 28°Υ19'16	0°55'44	morning set superior conj minimum elong	16486 Feb 16 09:41 16486 Feb 21 01:59 16486 Feb 28 03:41 16486 Feb 28 06:03 16486 Mar 02 16:40	0°₩ 9°₩36'14 24°₩41'01 24°₩53'29 0°Ψ	1°15'47
minimum elong max. Earth dist. desc. node	16485 Mar 16 04:13 16485 Mar 16 06:42 16485 Mar 21 13:23 16485 Mar 23 00:15 16485 Mar 25 09:38 16485 Mar 26 07:43	10°Υ38'59 21°Υ05'52 23°Υ52'02 28°Υ19'16 0°8	0°55'44	morning set superior conj minimum elong max. Earth dist.	16486 Feb 16 09:41 16486 Feb 21 01:59 16486 Feb 28 03:41 16486 Feb 28 06:03 16486 Mar 02 16:40 16486 Mar 04 02:59	0°₩ 9°₩36'14 24°₩41'01 24°₩53'29 0°Ψ 2°Ψ56'07	1°15'47
minimum elong max. Earth dist. desc. node evening rise	16485 Mar 16 04:13 16485 Mar 16 06:42 16485 Mar 21 13:23 16485 Mar 23 00:15 16485 Mar 25 09:38 16485 Mar 26 07:43 16485 Apr 13 20:47	10°Υ38'59 21°Υ05'52 23°Υ52'02 28°Υ19'16 0°႘ 0°Π	0°55'44 1.36077 AU	morning set superior conj minimum elong max. Earth dist. evening rise	16486 Feb 16 09:41 16486 Feb 21 01:59 16486 Feb 28 03:41 16486 Feb 28 06:03 16486 Mar 02 16:40 16486 Mar 04 02:59 16486 Mar 08 11:10	0°¥ 9°¥36'14 24°¥41'01 24°¥53'29 0°Υ 2°Υ56'07 11°Υ32'56	1°15'47
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde	16485 Mar 16 04:13 16485 Mar 16 06:42 16485 Mar 21 13:23 16485 Mar 23 00:15 16485 Mar 25 09:38 16485 Mar 26 07:43 16485 Apr 13 20:47 16485 Apr 29 20:08 16485 May 12 13:06	10°Υ38'59 21°Υ05'52 23°Υ52'02 28°Υ19'16 0°Β 0°Π 19°Π43'23	0°55'44 1.36077 AU	morning set superior conj minimum elong max. Earth dist. evening rise	16486 Feb 16 09:41 16486 Feb 21 01:59 16486 Feb 28 03:41 16486 Feb 28 06:03 16486 Mar 02 16:40 16486 Mar 04 02:59 16486 Mar 08 11:10 16486 Mar 09 20:58 16486 Mar 18 17:46	0°¥ 9°¥36'14 24°¥41'01 24°¥53'29 0°Y 2°Y56'07 11°Y32'56 14°Y14'20	1°15'47
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node	16485 Mar 16 04:13 16485 Mar 16 06:42 16485 Mar 21 13:23 16485 Mar 23 00:15 16485 Mar 25 09:38 16485 Mar 26 07:43 16485 Apr 13 20:47 16485 Apr 29 20:08 16485 May 12 13:06 16485 May 17 10:01	10°Υ38'59 21°Υ05'52 23°Υ52'02 28°Υ19'16 0°Β 0°Π 19°Π43'23 27°Π00'59 25°Π27'09	0°55'44 1.36077 AU	morning set superior conj minimum elong max. Earth dist. evening rise desc. node	16486 Feb 16 09:41 16486 Feb 21 01:59 16486 Feb 28 03:41 16486 Feb 28 06:03 16486 Mar 02 16:40 16486 Mar 04 02:59 16486 Mar 08 11:10 16486 Mar 09 20:58 16486 Mar 18 17:46 16486 Apr 09 02:54	0°¥ 9°¥36'14 24°¥41'01 24°¥53'29 0°Y 2°Y56'07 11°Y32'56 14°Y14'20 0°8	1°15'47
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set	16485 Mar 16 04:13 16485 Mar 16 06:42 16485 Mar 21 13:23 16485 Mar 23 00:15 16485 Mar 25 09:38 16485 Mar 26 07:43 16485 Apr 13 20:47 16485 Apr 29 20:08 16485 May 12 13:06 16485 May 17 10:01 16485 May 18 16:52	10°Y38'59 21°Y05'52 23°Y52'02 28°Y19'16 0°₩ 0°Ⅲ 19°Ⅲ43'23 27°Ⅲ00'59	0°55'44 1.36077 AU 26°01'56	morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	16486 Feb 16 09:41 16486 Feb 21 01:59 16486 Feb 28 03:41 16486 Feb 28 06:03 16486 Mar 02 16:40 16486 Mar 04 02:59 16486 Mar 08 11:10 16486 Mar 09 20:58 16486 Mar 18 17:46 16486 Apr 09 02:54 16486 Apr 12 10:01	0°¥ 9°¥36'14 24°¥41'01 24°¥53'29 0°Y 2°Y56'07 11°Y32'56 14°Y14'20 0°₩ 0°Ⅲ 3°Ⅲ25'39	1°15'47 1.34129 AU
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist.	16485 Mar 16 04:13 16485 Mar 16 06:42 16485 Mar 21 13:23 16485 Mar 23 00:15 16485 Mar 25 09:38 16485 Mar 26 07:43 16485 Apr 13 20:47 16485 Apr 29 20:08 16485 May 12 13:06 16485 May 17 10:01 16485 May 18 16:52 16485 May 22 20:32	10°Υ38'59 21°Υ05'52 23°Υ52'02 28°Υ19'16 0°Β 0°Π 19°Π43'23 27°Π00'59 25°Π27'09 24°Π29'32 20°Π04'31	0°55'44 1.36077 AU 26°01'56 0.67374 AU	morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	16486 Feb 16 09:41 16486 Feb 21 01:59 16486 Feb 28 03:41 16486 Feb 28 06:03 16486 Mar 02 16:40 16486 Mar 04 02:59 16486 Mar 08 11:10 16486 Mar 09 20:58 16486 Mar 18 17:46 16486 Apr 09 02:54 16486 Apr 12 10:01 16486 Apr 25 18:30	0°¥ 9°¥36'14 24°¥41'01 24°¥53'29 0°Y 2°Y'56'07 11°Y'32'56 14°Y14'20 0°℧ 0°Ⅱ 3°Ⅲ25'39 10°Ⅲ55'38	1°15'47 1.34129 AU
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj	16485 Mar 16 04:13 16485 Mar 16 06:42 16485 Mar 21 13:23 16485 Mar 23 00:15 16485 Mar 25 09:38 16485 Mar 26 07:43 16485 Apr 13 20:47 16485 Apr 29 20:08 16485 May 12 13:06 16485 May 17 10:01 16485 May 18 16:52 16485 May 22 20:32 16485 May 24 12:28	10°Υ38'59 21°Υ05'52 23°Υ52'02 28°Υ19'16 0°႘ 0°Π 19°Π43'23 27°Π00'59 25°Π27'09 24°Π29'32 20°Π04'31 17°Π59'34	0°55'44 1.36077 AU 26°01'56 0.67374 AU 1°59'46	morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	16486 Feb 16 09:41 16486 Feb 21 01:59 16486 Feb 28 03:41 16486 Feb 28 06:03 16486 Mar 02 16:40 16486 Mar 04 02:59 16486 Mar 08 11:10 16486 Mar 09 20:58 16486 Mar 18 17:46 16486 Apr 09 02:54 16486 Apr 12 10:01 16486 Apr 25 18:30 16486 May 02 07:04	0°¥ 9°¥36'14 24°¥41'01 24°¥53'29 0°Y 2°Y56'07 11°Y32'56 14°Y14'20 0°₩ 0°Ⅲ 3°Ⅲ25'39 10°Ⅲ55'38 8°Ⅲ23'32	1°15'47 1.34129 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	16485 Mar 16 04:13 16485 Mar 16 06:42 16485 Mar 21 13:23 16485 Mar 23 00:15 16485 Mar 25 09:38 16485 Mar 26 07:43 16485 Apr 13 20:47 16485 Apr 29 20:08 16485 May 12 13:06 16485 May 17 10:01 16485 May 18 16:52 16485 May 22 20:32 16485 May 24 12:28 16485 May 24 10:17	10°Υ38'59 21°Υ05'52 23°Υ52'02 28°Υ19'16 0°႘ 0°Π 19°Π43'23 27°Π00'59 25°Π27'09 24°Π29'32 20°Π04'31 17°Π59'34 18°Π06'26	0°55'44 1.36077 AU 26°01'56 0.67374 AU	morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node	16486 Feb 16 09:41 16486 Feb 21 01:59 16486 Feb 28 03:41 16486 Feb 28 06:03 16486 Mar 02 16:40 16486 Mar 04 02:59 16486 Mar 08 11:10 16486 Mar 09 20:58 16486 Mar 18 17:46 16486 Apr 09 02:54 16486 Apr 12 10:01 16486 Apr 25 18:30 16486 May 02 07:04 16486 May 04 07:10	0° X 9° X 36'14 24° X 41'01 24° X 53'29 0° Y 2° Y 56'07 11° Y 32'56 14° Y 14'20 0° B 0° II 3° II 25'39 10° II 55'38 8° II 23'32 6° II 36'07	1°15'47 1.34129 AU 26°58'03
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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	16485 Mar 16 04:13 16485 Mar 16 06:42 16485 Mar 21 13:23 16485 Mar 23 00:15 16485 Mar 25 09:38 16485 Mar 26 07:43 16485 Apr 13 20:47 16485 Apr 29 20:08 16485 May 12 13:06 16485 May 17 10:01 16485 May 18 16:52 16485 May 24 12:28 16485 May 24 12:28 16485 May 24 10:17 16485 May 30 04:23 16485 Jun 09 11:47 16485 Jun 09 02:32 16485 Jun 19 00:31 16485 Jun 20 15:44 16485 Jun 30 21:39 16485 Jul 15 23:55 16485 Jul 15 23:55	10°Υ38'59 21°Υ05'52 23°Υ52'02 28°Υ19'16 0°႘ 0°Π 19°Π43'23 27°Π00'59 24°Π29'32 20°Π04'31 17°Π59'34 18°Π06'26 12°Π13'07 11°Π10'47 14°Π43'07 27°Π33'12 0°℘ 15°ℱ50'22 0°Ω 9°Ω21'50	0°55'44 1.36077 AU 26°01'56 0.67374 AU 1°59'46 1°58'32 18°41'13	morning set superior conj 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	16486 Feb 16 09:41 16486 Feb 28 03:41 16486 Feb 28 06:03 16486 Mar 02 16:40 16486 Mar 04 02:59 16486 Mar 08 11:10 16486 Mar 09 20:58 16486 Mar 18 17:46 16486 Apr 09 02:54 16486 Apr 25 18:30 16486 Apr 25 18:30 16486 May 02 07:04 16486 May 04 07:10 16486 May 08 05:27 16486 May 08 10:22 16486 May 10 04:57 16486 May 10 04:57 16486 May 17 09:11 16486 May 23 16:43 16486 May 24 17:10 16486 Jun 05 21:34 16486 Jun 11 12:34	0°¥ 9°¥36'14 24°¥41'01 24°¥53'29 0°Y 2°Y56'07 11°Y32'56 14°Y14'20 0°B 0°II 3°II25'39 10°II55'38 8°II23'32 6°II36'07 4°II32'42 1°II59'55 2°II05'02 30°R8 26°826'03 25°840'11 28°857'29 0°II 17°II25'04 26°II29'17	1°15'47 1.34129 AU 26°58'03 0.65870 AU 1°14'09 1°13'00
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	16485 Mar 16 04:13 16485 Mar 16 06:42 16485 Mar 21 13:23 16485 Mar 23 00:15 16485 Mar 25 09:38 16485 Mar 26 07:43 16485 Apr 13 20:47 16485 Apr 29 20:08 16485 May 12 13:06 16485 May 17 10:01 16485 May 18 16:52 16485 May 24 12:28 16485 May 24 12:28 16485 May 24 10:17 16485 May 30 04:23 16485 Jun 09 02:32 16485 Jun 09 02:32 16485 Jun 19 00:31 16485 Jun 20 15:44 16485 Jun 30 21:39 16485 Jul 15 23:55 16485 Jul 16 23:20 16485 Jul 16 23:20	10°Υ38'59 21°Υ05'52 23°Υ52'02 28°Υ19'16 0°႘ 0°Π 19°Π43'23 27°Π00'59 24°Π29'32 20°Π04'31 17°Π59'34 18°Π06'26 12°Π13'07 11°Π10'47 14°Π43'07 27°Π33'12 0°© 15°©50'22 0°Ω 9°Ω21'50	0°55'44 1.36077 AU 26°01'56 0.67374 AU 1°59'46 1°58'32 18°41'13	morning set superior conj 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 desc. node	16486 Feb 16 09:41 16486 Feb 21 01:59 16486 Feb 28 03:41 16486 Feb 28 06:03 16486 Mar 02 16:40 16486 Mar 04 02:59 16486 Mar 08 11:10 16486 Mar 09 20:58 16486 Mar 18 17:46 16486 Apr 09 02:54 16486 Apr 25 18:30 16486 May 02 07:04 16486 May 04 07:10 16486 May 06 05:27 16486 May 08 10:22 16486 May 08 08:36 16486 May 10 04:57 16486 May 17 09:11 16486 May 23 16:43 16486 May 24 17:10 16486 May 24 17:10 16486 May 05 21:34	0°¥ 9°¥36'14 24°¥41'01 24°¥53'29 0°Y 2°Y56'07 11°Y32'56 14°Y14'20 0°8 0°II 3°II25'39 10°II55'38 8°II23'32 6°II36'07 4°II32'42 1°II59'55 2°II05'02 30°R8 26°826'03 25°840'11 28°857'29 0°II 17°II25'04	1°15'47 1.34129 AU 26°58'03 0.65870 AU 1°14'09 1°13'00
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	16485 Mar 16 04:13 16485 Mar 16 06:42 16485 Mar 21 13:23 16485 Mar 23 00:15 16485 Mar 25 09:38 16485 Mar 26 07:43 16485 Apr 13 20:47 16485 Apr 29 20:08 16485 May 12 13:06 16485 May 17 10:01 16485 May 18 16:52 16485 May 24 12:28 16485 May 24 12:28 16485 May 24 10:17 16485 May 30 04:23 16485 Jun 02 11:47 16485 Jun 09 02:32 16485 Jun 19 00:31 16485 Jun 20 15:44 16485 Jun 19 23:40 16485 Jul 15 23:55 16485 Jul 16 23:20 16485 Jul 19 03:10	10°Υ38'59 21°Υ05'52 23°Υ52'02 28°Υ19'16 0°႘ 0°Π 19°Π43'23 27°Π00'59 24°Π29'32 20°Π04'31 17°Π59'34 18°Π06'26 12°Π13'07 11°Π10'47 14°Π43'07 27°Π33'12 0°♀ 15°♥50'22 0°Ω 9°Ω21'50 10°Ω53'10 10°Ω52'19 0°™	0°55'44 1.36077 AU 26°01'56 0.67374 AU 1°59'46 1°58'32 18°41'13	morning set superior conj 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 desc. node morning set	16486 Feb 16 09:41 16486 Feb 28 03:41 16486 Feb 28 06:03 16486 Mar 02 16:40 16486 Mar 04 02:59 16486 Mar 08 11:10 16486 Mar 09 20:58 16486 Mar 18 17:46 16486 Apr 09 02:54 16486 Apr 12 10:01 16486 Apr 25 18:30 16486 May 02 07:04 16486 May 04 07:10 16486 May 06 05:27 16486 May 08 08:36 16486 May 10 04:57 16486 May 10 04:57 16486 May 11 11:34 16486 May 23 16:43 16486 May 24 17:10 16486 Jun 05 21:34 16486 Jun 11 12:34 16486 Jun 13 16:47	0°¥ 9°¥36'14 24°¥41'01 24°¥53'29 0°Y 2°Y56'07 11°Y32'56 14°Y14'20 0°B 0°П 3°П25'39 10°П55'38 8°П23'32 6°П36'07 4°П32'42 1°П59'55 2°П05'02 30°R8 26°826'03 25°840'11 28°857'29 0°П 17°П25'04 26°П29'17 0°©	1°15'47 1.34129 AU 26°58'03 0.65870 AU 1°14'09 1°13'00 18°06'13
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	16485 Mar 16 04:13 16485 Mar 16 06:42 16485 Mar 21 13:23 16485 Mar 23 00:15 16485 Mar 25 09:38 16485 Mar 26 07:43 16485 Apr 13 20:47 16485 Apr 29 20:08 16485 May 12 13:06 16485 May 17 10:01 16485 May 18 16:52 16485 May 24 12:28 16485 May 24 12:28 16485 May 24 10:17 16485 May 30 04:23 16485 May 30 04:23 16485 Jun 02 11:47 16485 Jun 09 02:32 16485 Jun 19 00:31 16485 Jun 20 15:44 16485 Jun 30 21:39 16485 Jul 16 23:20 16485 Jul 16 23:20 16485 Jul 16 23:20 16485 Jul 16 23:07 16485 Jul 29 03:10 16485 Aug 01 12:26	10°Υ38'59 21°Υ05'52 23°Υ52'02 28°Υ19'16 0°႘ 0°Π 19°Π43'23 27°Π00'59 24°Π29'32 20°Π04'31 17°Π59'34 18°Π06'26 12°Π13'07 11°Π10'47 14°Π43'07 27°Π33'12 0°፵ 15°©50'22 0°Ω 9°Ω21'50 10°Ω53'10 10°Ω52'19 0°ႃ 5°ႃ\$22'55	0°55'44 1.36077 AU 26°01'56 0.67374 AU 1°59'46 1°58'32 18°41'13 1.45946 AU -2°14'24 2°14'55	morning set superior conj 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 desc. node morning set	16486 Feb 16 09:41 16486 Feb 28 03:41 16486 Feb 28 06:03 16486 Mar 02 16:40 16486 Mar 04 02:59 16486 Mar 08 11:10 16486 Mar 09 20:58 16486 Mar 18 17:46 16486 Apr 09 02:54 16486 Apr 12 10:01 16486 Apr 12 10:01 16486 Apr 25 18:30 16486 May 04 07:10 16486 May 06 05:27 16486 May 08 08:36 16486 May 10 04:57 16486 May 10 04:57 16486 May 10 04:57 16486 May 23 16:43 16486 May 24 17:10 16486 Jun 05 21:34 16486 Jun 11 12:34 16486 Jun 13 16:47	0°¥ 9°¥36'14 24°¥41'01 24°¥53'29 0°Y 2°Y56'07 11°Y32'56 14°Y14'20 0°₩ 0°Ⅲ 3°Ⅲ25'39 10°Ⅲ55'38 8°Ⅲ23'32 6°Ⅲ36'07 4°Ⅲ32'42 1°Ⅲ59'55 2°Ⅲ05'02 30°R₩ 26°₩26'03 25°₩40'11 28°₩57'29 0°Ⅲ 17°Ⅲ25'04 26°Ⅲ29'17 0°\$ 20°\$11'32	1°15'47 1.34129 AU 26°58'03 0.65870 AU 1°14'09 1°13'00 18°06'13
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	16485 Mar 16 04:13 16485 Mar 16 06:42 16485 Mar 21 13:23 16485 Mar 23 00:15 16485 Mar 25 09:38 16485 Mar 26 07:43 16485 Apr 13 20:47 16485 Apr 29 20:08 16485 May 12 13:06 16485 May 17 10:01 16485 May 18 16:52 16485 May 24 12:28 16485 May 24 10:17 16485 May 24 10:17 16485 May 30 04:23 16485 May 30 04:23 16485 Jun 02 11:47 16485 Jun 09 02:32 16485 Jun 19 00:31 16485 Jun 20 15:44 16485 Jun 30 21:39 16485 Jul 16 23:20 16485 Jul 16 23:20 16485 Jul 16 23:20 16485 Jul 16 23:27 16485 Jul 16 23:07 16485 Jul 29 03:10 16485 Aug 01 12:26 16485 Aug 07 19:56	10°Υ38'59 21°Υ05'52 23°Υ52'02 28°Υ19'16 0°႘ 0°Π 19°Π43'23 27°Π00'59 24°Π29'32 20°Π04'31 17°Π59'34 18°Π06'26 12°Π13'07 11°Π10'47 14°Π43'07 27°Π33'12 0°♀ 15°♥50'22 0°Ω 9°Ω21'50 10°Ω53'10 10°Ω52'19 0°™	0°55'44 1.36077 AU 26°01'56 0.67374 AU 1°59'46 1°58'32 18°41'13 1.45946 AU -2°14'24 2°14'55	morning set superior conj 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 desc. node morning set	16486 Feb 16 09:41 16486 Feb 28 03:41 16486 Feb 28 06:03 16486 Mar 02 16:40 16486 Mar 04 02:59 16486 Mar 08 11:10 16486 Mar 09 20:58 16486 Mar 18 17:46 16486 Apr 09 02:54 16486 Apr 12 10:01 16486 Apr 25 18:30 16486 May 02 07:04 16486 May 04 07:10 16486 May 06 05:27 16486 May 08 08:36 16486 May 10 04:57 16486 May 10 04:57 16486 May 11 11:34 16486 May 23 16:43 16486 May 24 17:10 16486 Jun 05 21:34 16486 Jun 11 12:34 16486 Jun 13 16:47	0°¥ 9°¥36'14 24°¥41'01 24°¥53'29 0°Y 2°Y56'07 11°Y32'56 14°Y14'20 0°B 0°П 3°П25'39 10°П55'38 8°П23'32 6°П36'07 4°П32'42 1°П59'55 2°П05'02 30°R8 26°826'03 25°840'11 28°857'29 0°П 17°П25'04 26°П29'17 0°©	1°15'47 1.34129 AU 26°58'03 0.65870 AU 1°14'09 1°13'00 18°06'13
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	16485 Mar 16 04:13 16485 Mar 16 06:42 16485 Mar 21 13:23 16485 Mar 23 00:15 16485 Mar 25 09:38 16485 Mar 26 07:43 16485 Apr 13 20:47 16485 Apr 29 20:08 16485 May 12 13:06 16485 May 17 10:01 16485 May 18 16:52 16485 May 24 12:28 16485 May 24 12:28 16485 May 24 10:17 16485 May 30 04:23 16485 May 30 04:23 16485 Jun 02 11:47 16485 Jun 09 02:32 16485 Jun 19 00:31 16485 Jun 20 15:44 16485 Jun 30 21:39 16485 Jul 16 23:20 16485 Jul 16 23:20 16485 Jul 16 23:20 16485 Jul 16 23:07 16485 Jul 29 03:10 16485 Aug 01 12:26	10°Υ38'59 21°Υ05'52 23°Υ52'02 28°Υ19'16 0°႘ 0°Π 19°Π43'23 27°Π00'59 24°Π29'32 20°Π04'31 17°Π59'34 18°Π06'26 12°Π13'07 11°Π10'47 14°Π43'07 27°Π33'12 0°፵ 15°©50'22 0°Ω 9°Ω21'50 10°Ω53'10 10°Ω52'19 0°ႃ 5°ႃ\$22'55	0°55'44 1.36077 AU 26°01'56 0.67374 AU 1°59'46 1°58'32 18°41'13 1.45946 AU -2°14'24 2°14'55	morning set superior conj 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 desc. node morning set	16486 Feb 16 09:41 16486 Feb 28 03:41 16486 Feb 28 06:03 16486 Mar 02 16:40 16486 Mar 04 02:59 16486 Mar 08 11:10 16486 Mar 09 20:58 16486 Mar 18 17:46 16486 Apr 09 02:54 16486 Apr 12 10:01 16486 Apr 12 10:01 16486 Apr 25 18:30 16486 May 04 07:10 16486 May 06 05:27 16486 May 08 08:36 16486 May 10 04:57 16486 May 10 04:57 16486 May 10 04:57 16486 May 23 16:43 16486 May 24 17:10 16486 Jun 05 21:34 16486 Jun 11 12:34 16486 Jun 13 16:47	0°¥ 9°¥36'14 24°¥41'01 24°¥53'29 0°Y 2°Y56'07 11°Y32'56 14°Y14'20 0°℧ 0°Ⅲ 3°Ⅲ25'39 10°Ⅲ55'38 8°Ⅲ23'32 6°Ⅲ36'07 4°Ⅲ32'42 1°Ⅲ59'55 2°Ⅲ05'02 30°ℵ℧ 26°℧26'03 25°℧40'11 28°℧57'29 0°Ⅲ 17°Ⅲ25'04 26°Ⅲ29'17 0°亞 20°亞11'32 19°亞43'53 24°亞02'55	1°15'47 1.34129 AU 26°58'03 0.65870 AU 1°14'09 1°13'00 18°06'13
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	16485 Mar 16 04:13 16485 Mar 16 06:42 16485 Mar 21 13:23 16485 Mar 23 00:15 16485 Mar 25 09:38 16485 Mar 26 07:43 16485 Apr 13 20:47 16485 Apr 29 20:08 16485 May 12 13:06 16485 May 17 10:01 16485 May 18 16:52 16485 May 24 12:28 16485 May 24 10:17 16485 May 24 10:17 16485 May 30 04:23 16485 May 30 04:23 16485 Jun 02 11:47 16485 Jun 09 02:32 16485 Jun 19 00:31 16485 Jun 20 15:44 16485 Jun 30 21:39 16485 Jul 16 23:20 16485 Jul 16 23:20 16485 Jul 16 23:20 16485 Jul 16 23:27 16485 Jul 16 23:07 16485 Jul 29 03:10 16485 Aug 01 12:26 16485 Aug 07 19:56	10°Y38'59 21°Y05'52 23°Y52'02 28°Y19'16 0°B 0°II 19°II43'23 27°II00'59 25°II27'09 24°II29'32 20°II04'31 17°II59'34 18°II06'26 12°II3'07 11°II10'47 14°II43'07 27°II33'12 0°G 15°G50'22 0°A 9°A21'50 10°A53'10 10°A52'19 0°III 0°III 0°IIII 0°IIII 0°IIII 0°IIIII 0°IIII 0°IIII 0°IIII 0°IIII 0°IIII 0°IIII 0°IIII 0°IIII 0°IIIII 0°IIII 0°IIII 0°IIIII 0°IIIIII 0°IIIIIIII	0°55'44 1.36077 AU 26°01'56 0.67374 AU 1°59'46 1°58'32 18°41'13 1.45946 AU -2°14'24 2°14'55	morning set superior conj 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 desc. node morning set	16486 Feb 16 09:41 16486 Feb 28 03:41 16486 Feb 28 06:03 16486 Mar 02 16:40 16486 Mar 04 02:59 16486 Mar 08 11:10 16486 Mar 09 20:58 16486 Mar 18 17:46 16486 Apr 09 02:54 16486 Apr 12 10:01 16486 Apr 25 18:30 16486 May 04 07:10 16486 May 06 05:27 16486 May 08 10:22 16486 May 08 10:22 16486 May 10 04:57 16486 May 10 04:57 16486 May 11 11:34 16486 May 23 16:43 16486 May 24 17:10 16486 Jun 05 21:34 16486 Jun 11 12:34 16486 Jun 13 16:47	0°¥ 9°¥36'14 24°¥41'01 24°¥53'29 0°Y 2°Y56'07 11°Y32'56 14°Y14'20 0°℧ 0°Ⅲ 3°Ⅲ25'39 10°Ⅲ55'38 8°Ⅲ23'32 6°Ⅲ36'07 4°Ⅲ32'42 1°Ⅲ59'55 2°Ⅲ05'02 30°ℵ℧ 26°℧26'03 25°℧40'11 28°℧57'29 0°Ⅲ 17°Ⅲ25'04 26°Ⅲ29'17 0°郖 20°郖11'32 19°郖43'53	1°15'47 1.34129 AU 26°58'03 0.65870 AU 1°14'09 1°13'00 18°06'13 -2°03'33 2°03'45

16487 Jun 06 01:18

16487 Jun 06 06:48

minimum elong

29°**Ⅲ**37'48 1°35'57

0ಂತಾ

desc. node

16488 May 09 15:25

16488 May 10 19:48

27°855'10

 $0^{\circ}\Pi$

page 209

16489 Apr 29 05:20

superior conj

23°**8**16'41 -0°22'27

16490 Apr 11 22:44

minimum elong

6°815'11 0°11'54

behind sun begin behind sun end	16490 Apr 11 18:08 16490 Apr 12 03:20	5° と 53'32 6° と 36'49		minimum elong desc. node	16491 Mar 26 07:43 16491 Mar 31 05:43	19° Υ 56'34 29° Υ 26'17	0°41'23
desc. node	16490 Apr 13 08:58	8° 8 55'11			16491 Mar 31 12:54	0° ႘	
max. Earth dist.	16490 Apr 19 03:16	19° 8 19'59	1.39633 AU	max. Earth dist.	16491 Apr 01 09:34	1° 8 36'30	1.37336 AU
evening rise	16490 Apr 23 01:48	26° 8 07'06		evening rise	16491 Apr 05 02:10	8° 8 19'30	
	16490 Apr 25 09:34	Π °0			16491 Apr 18 04:50	Π $^{\circ}0$	
	16490 May 15 08:17	0 \circ 50		evening max el	16491 May 10 12:59	29° Ⅱ 06′27	25°21'55
evening max el	16490 May 27 23:38	15° © 12'02	24°04'17		16491 May 11 11:12	0 \circ	
asc. node	16490 Jun 07 18:16	21° © 44'15		retrograde	16491 May 22 18:00	6° ॐ 11'21	
retrograde	16490 Jun 08 04:03	21° © 44'57		asc. node	16491 May 25 15:19	5° © 37'10	
evening set	16490 Jun 13 14:53	19° © 25'40		evening set	16491 May 28 16:03	3°542'36	
min. Earth dist.	16490 Jun 18 05:55	14°503'14	0.68857 AU		16491 Jun 01 03:26	30°RⅡ	0.00040.477
inferior conj	16490 Jun 19 01:14	12°557'40	2°46'55	min. Earth dist.	16491 Jun 01 23:18	28° Ⅱ 57'15	0.68049 AU
minimum elong	16490 Jun 18 23:34 16490 Jun 24 08:17	13° © 03'20 6° © 54'55	2°46'00	inferior conj	16491 Jun 03 07:48 16491 Jun 03 05:40	27° Ⅱ 11'55 27° Ⅱ 18'51	2°20'19 2°19'09
morning rise direct	16490 Jun 28 08:55	5°\$22'48		minimum elong morning rise	16491 Jun 08 19:42	21° I I19'23	2 19 09
morning max el	16490 Jul 06 02:50	9° 5 44'01	20°09'49	direct	16491 Jun 12 09:08	20° Ⅱ 06'41	
desc. node	16490 Jul 10 08:39	14° © 29'32	20 07 47	morning max el	16491 Jun 19 07:38	23° I 53'07	19°08'59
dese. Hode	16490 Jul 21 14:30	0°Ω		morning max er	16491 Jun 24 13:28	0°95	15 00 55
morning set	16490 Aug 02 22:49	18° Ω 35'01		desc. node	16491 Jun 27 05:47	3° © 38'53	
5-11	16490 Aug 10 07:01	0° m)		greatest brilliancy	16491 Jul 02 04:05	10° © 48'37	-0.7m
max. Earth dist.	16490 Aug 12 20:24	4° m) 02'58	1.44451 AU	morning set	16491 Jul 13 05:04	27° © 38'00	
	C	•		C	16491 Jul 14 17:55	$0^{\circ}\Omega$	
superior conj	16490 Aug 18 14:00	13° m) 17'07	-1°51'57	max. Earth dist.	16491 Jul 26 13:39	18° Ω 21'24	1.45601 AU
minimum elong	16490 Aug 18 21:54	13° m 49'23	1°51'29				
	16490 Aug 28 14:13	0∘ ⊽		superior conj	16491 Jul 29 11:21	22° Ω 55′05	-2°11'28
evening rise	16490 Aug 31 14:49	5° ≏ 10'43		minimum elong	16491 Jul 29 15:30	23° Ω 11′27	2°11'47
asc. node	16490 Sep 03 18:39	10° ≏ 36'11			16491 Aug 02 22:38	0° ™	
	16490 Sep 16 09:57	0°M₊		evening rise	16491 Aug 13 05:47	16° Mp 38'04	
evening max el	16490 Sep 17 18:47	1°M27'46	18°02'06		16491 Aug 21 11:10	0∘ ⊽	
retrograde	16490 Sep 24 05:31	4°M49'23		asc. node	16491 Aug 21 15:23	0° 2 16'49	10015110
evening set	16490 Sep 26 19:28	4°M15'53		evening max el	16491 Sep 01 09:28	15° Ω 04'43	18°17'19
infariar agni	16490 Oct 02 07:48 16490 Oct 03 05:57	30°R ≏ 29° ≏ 02'52	0°55'00	retrograde	16491 Sep 07 18:35 16491 Sep 10 17:19	18° ♀ 28'07 17° ♀ 40'24	
inferior conj minimum elong	16490 Oct 03 03:37 16490 Oct 03 07:27	29 2 02 32 28° 2 58'56	0°54'42	evening set inferior conj	16491 Sep 16 17:19	17 ≛ 40 24 12° £ 11'17	1°51'02
min. Earth dist.	16490 Oct 06 01:58	26° ⊆ 06'27	0.62416 AU	minimum elong	16491 Sep 16 17:58	12° ⊆ 04'40	1°50'25
desc. node	16490 Oct 06 06:08	25° Ω 56'04	0.02110110	min. Earth dist.	16491 Sep 18 23:28	9° م 30'03	0.64535 AU
morning rise	16490 Oct 09 17:01	22° ≏ 56'13		morning rise	16491 Sep 22 16:59	5° ₽ 50'32	0.0 .030 110
direct	16490 Oct 16 09:29	20° ჲ 32'06		desc. node	16491 Sep 23 03:27	5° ≏ 30'23	
morning max el	16490 Oct 30 11:07	28° ₽ 29'03	27°56'46	direct	16491 Sep 29 05:46	3° ≏ 15'47	
	16490 Oct 31 22:35	0° M		morning max el	16491 Oct 12 21:44	11° ≏ 12'07	27°26'06
	16490 Nov 22 05:22	0° ∡ ¹			16491 Oct 27 20:25	0° M	
asc. node	16490 Nov 30 19:16	15° ∡ ¹47'57			16491 Nov 14 16:33	0° ∡ ¹	
morning set	16490 Dec 03 14:20	21° ₹ 24'32		morning set	16491 Nov 17 04:11	4° ∡ °48'49	
	16490 Dec 07 16:28	0°る		asc. node	16491 Nov 17 16:12	5° ∡ ¹48'12	
max. Earth dist.	16490 Dec 08 21:00	2° る 34'12	1.31639 AU	max. Earth dist.	16491 Nov 21 16:54	13° ∡ 59'42	1.32800 AU
	16400 D 11 02 17	70705151	1022112		1640131 25 07 20	210 72711	1005102
superior conj	16490 Dec 11 02:17	7°る25'51 7°る14'30	1°22'12 1°22'36	superior conj	16491 Nov 25 07:20	21° х ⁷ 37'11 21° х ⁷ 24'23	1°05'03
minimum elong evening rise	16490 Dec 11 00:13 16490 Dec 17 20:05	7°51430 22° 5 16'46	1 22 30	minimum elong	16491 Nov 25 04:57 16491 Nov 29 04:13	21° x '24'23	1°05'18
evening rise	16490 Dec 17 20:03	0°≈		evening rise	16491 Nov 29 04.13 16491 Dec 02 06:47	6°る43'00	
desc. node	16491 Jan 02 04:48	0 ∞ 20°≈56'12		evening rise	16491 Dec 14 10:10	0°≈	
dese. Hode	16491 Jan 09 02:43	0° ∀		desc. node	16491 Dec 20 01:43	8° ≈ 06'06	
evening max el	16491 Jan 11 22:09	2° ¥ 55'07	24°23'59	evening max el	16491 Dec 24 07:35	12° ≈ 49'42	22°40'17
retrograde	16491 Jan 25 13:36	9°) (42'47		retrograde	16492 Jan 06 06:13	19° ≈ 13'38	
evening set	16491 Jan 30 17:00	8°) 44′54		evening set	16492 Jan 10 03:52	18° ≈ 40'24	
min. Earth dist.	16491 Feb 05 09:58	5° ¥ 52′21	0.55646 AU	min. Earth dist.	16492 Jan 17 16:26	15° ≈ 14'11	0.54578 AU
inferior conj	16491 Feb 07 14:00	4°) 32′45		inferior conj	16492 Jan 18 11:53	14° ≈ 46'43	-6°00'37
minimum elong	16491 Feb 07 22:47	4°) 19′19	5°15'30	minimum elong	16492 Jan 18 14:02	14° ≈ 43'41	6°00'03
morning rise	16491 Feb 16 06:36	0°) 32′26		morning rise	16492 Jan 27 01:20	10° ≈ 58'18	
direct	16491 Feb 18 13:14	0°) 18'46		direct	16492 Jan 30 02:33	10° ≈ 37'01	
asc. node	16491 Feb 26 17:32	3°) €29'29	10046:	morning max el	16492 Feb 10 21:51	16°≈19'30	21°13'36
morning max el	16491 Feb 28 18:02	5°) €16'03	19°48'27	asc. node	16492 Feb 13 14:49	19°≈12'50	
	16491 Mar 16 10:21	0°Υ 2°Υ40116			16492 Feb 21 02:32	0°) (
morning set	16491 Mar 18 07:48	3° Ƴ 48'16		morning set	16492 Mar 01 16:42	18° ¥ 29'06 0° Ƴ	
superior conj	16491 Mar 26 05:32	19° Ƴ 45'47	0°41'54		16492 Mar 07 04:16	v 1	
superior conj	107/1 IVIAI 20 US.32	17 434/	U 71 J4				

superior conj	16492 Mar 09 00:11	3° Y 48'34	1°05'21	superior conj	16493 Feb 21 02:36	18° ∺ 10'14	1°22'27
minimum elong	16492 Mar 09 02:42	4° Υ 01'33	1°04'59	minimum elong	16493 Feb 21 04:44	18° ∺ 21'39	1°22'24
max. Earth dist.	16492 Mar 13 19:01	13° Ƴ 29'14	1.35202 AU	max. Earth dist.	16493 Feb 24 11:28	25° ¥ 17'56	1.33417 AU
desc. node	16492 Mar 17 02:27	19° Ƴ 53'01			16493 Feb 26 18:21	$0^{\circ}\mathbf{Y}$	
evening rise	16492 Mar 17 19:32	21° Y 13'31		evening rise	16493 Mar 01 02:22	4° Ƴ 39'39	
3	16492 Mar 22 15:25	0°B		desc. node	16493 Mar 03 23:10	10° Ƴ 11'02	
	16492 Apr 11 01:32	0°II		dese. Hode	16493 Mar 15 09:31	0°8	
avanina may al	•	12° Ⅱ 55'16	26°28'09	avanina may al		26° 8 29'30	27915124
evening max el	16492 Apr 22 02:35		20 28 09	evening max el	16493 Apr 04 16:12		27 13 24
retrograde	16492 May 05 03:02	20° Ⅱ 20'19			16493 Apr 08 16:46	0°Щ	
evening set	16492 May 11 10:52	17° Ⅱ 47'31		retrograde	16493 Apr 18 05:59	4° Ⅱ 02'26	
asc. node	16492 May 11 12:26	17° Ⅱ 44'17		evening set	16493 Apr 24 21:13	1° Ⅱ 32′10	
min. Earth dist.	16492 May 15 11:57	13° Ⅱ 37'33	0.66779 AU		16493 Apr 26 16:28	30° ₹ 8	
inferior conj	16492 May 17 09:34	11° Ⅱ 19'15	1°42'00	asc. node	16493 Apr 28 09:38	28° 8 16'37	
minimum elong	16492 May 17 07:28	11° Ⅱ 25'39	1°40'46	min. Earth dist.	16493 Apr 28 17:51	27° 8 54'38	0.65100 AU
morning rise	16492 May 23 05:07	5° Ⅱ 38′08		inferior conj	16493 May 01 04:03	25° 8 13'04	0°50'42
direct	16492 May 26 08:08	4° Ⅱ 43'17		minimum elong	16493 May 01 02:44	25° 8 16'46	0°49'44
morning max el	16492 Jun 01 18:59	8° II 07'53	18°24'16	morning rise	16493 May 07 10:04	19° 8 45'08	
desc. node	16492 Jun 13 02:51	23° Ⅱ 17'48		direct	16493 May 10 03:42	19° 8 05'34	
dese. Hode	16492 Jun 17 10:04	0°95		morning max el	16493 May 16 10:48	22° 8 20'43	17°56'30
				morning max er	•	0°II	17 30 30
morning set	16492 Jun 22 04:52	7° © 33'17			16493 May 22 13:51		
	16492 Jul 06 11:55	0 ° Ω		desc. node	16493 May 30 23:51	13° Ⅱ 17'46	
		_		morning set	16493 Jun 03 07:31	18° Ⅱ 45'29	
superior conj	16492 Jul 07 21:02	2° Ω 09'02	-2°12'13		16493 Jun 10 04:27	0	
minimum elong	16492 Jul 07 17:27	1° Ω 55′06	2°12'41				
max. Earth dist.	16492 Jul 08 09:29	2° Ω 57'34	1.46027 AU	superior conj	16493 Jun 17 11:29	11° 5 641'02	-1°53'34
evening rise	16492 Jul 23 19:33	27° Ω 02′03		minimum elong	16493 Jun 17 03:10	11° © 08'03	1°53'31
	16492 Jul 25 16:57	0° m y		max. Earth dist.	16493 Jun 21 05:39	17° 5 36'03	1.45706 AU
greatest brilliancy	16492 Aug 02 00:29	11° m)24'14	-0.8m		16493 Jun 29 05:13	$0^{\circ}\Omega$	
asc. node	16492 Aug 07 12:09	19° m)37'07		evening rise	16493 Jul 03 12:32	6° Ω 36'55	
evening max el	16492 Aug 14 21:30	28° m 53'34	18°49'53	greatest brilliancy	16493 Jul 17 10:21	27° Ω 34'42	-0.6m
evening max er	16492 Aug 16 02:17	0° ⊽	10 47 55	greatest offinancy	16493 Jul 19 02:32	0° m)	0.0111
rotro ara do	•	0 = 2° ჲ 31'27		asc. node		8° Mg 29'01	
retrograde	16492 Aug 21 13:38				16493 Jul 25 08:58		10020146
evening set	16492 Aug 24 21:51	1° £ 27'16		evening max el	16493 Jul 29 04:38	12° m 47'33	19°38'46
	16492 Aug 26 17:50	30°R, Mp		retrograde	16493 Aug 05 11:46	16° m 52'13	
inferior conj	16492 Aug 30 11:33	25° Mp 44'10	2°30'00	evening set	16493 Aug 09 06:09	15° m 30'12	
minimum elong	16492 Aug 30 13:41	25° m 37'28	2°29'25	inferior conj	16493 Aug 14 14:24	9° m 34'30	2°54'25
min. Earth dist.	16492 Sep 01 05:39	23° m 31'56	0.66343 AU	minimum elong	16493 Aug 14 15:52	9° m , 29'37	2°53'57
morning rise	16492 Sep 05 04:33	19° m 17'31		min. Earth dist.	16493 Aug 15 18:33	8° m 00'41	0.67746 AU
desc. node	16492 Sep 09 00:46	17° m 02'39		morning rise	16493 Aug 20 01:02	3° ™ 07'59	
direct	16492 Sep 11 09:49	16° Mp 40'43		direct	16493 Aug 25 20:13	0° Mp 37'06	
morning max el	16492 Sep 24 09:20	24° m/22'19	26°27'01	desc. node	16493 Aug 26 22:05	0° mp 41'44	
· ·	16492 Sep 29 11:20	0∘ <u>⊽</u>		morning max el	16493 Sep 06 20:24	7° m/48'02	25°08'51
	16492 Oct 20 06:15	0° M ,			16493 Sep 24 06:12	0∘ ⊽	
morning set	16492 Oct 30 06:04	17°MJ39'47		morning set	16493 Oct 12 16:09	29° ≏ 48'35	
max. Earth dist.	16492 Nov 03 02:56	25°M06'33	1.34507 AU	morning set	16493 Oct 12 18:43	0°M	
	16492 Nov 03 13:06	25°M56'39	1.54507 AC	max. Earth dist.	16493 Oct 16 04:34		1.36659 AU
asc. node							1.30039 AU
	16492 Nov 05 13:47	0° ∡ ¹		asc. node	16493 Oct 21 09:56	16°M08'58	
	1640231 00 05 5:	E0 700115	0041140		16402 0 + 22 10 00	100 W #1120	001222
superior conj	16492 Nov 08 05:54	5° ₹ ′28′12	0°41'40	superior conj	16493 Oct 22 19:00	18°M51'29	
minimum elong	16492 Nov 08 03:52	5° ∡ 17'37	0°41'51	minimum elong	16493 Oct 22 18:13	18° M ₊47'37	0°12'39
evening rise	16492 Nov 15 16:02	21° 尽 04'17		behind sun begin	16493 Oct 22 14:11	18° M 27'42	
	16492 Nov 20 00:38	0°₹		behind sun end	16493 Oct 22 22:15	19° M 07'35	
evening max el	16492 Dec 04 23:56	22° る 59'41	21°03'31		16493 Oct 28 07:44	0°⊀	
desc. node	16492 Dec 05 22:43	23° る 53'43		evening rise	16493 Oct 30 21:40	5° ∡ 15'27	
retrograde	16492 Dec 16 15:49	28° る 45'52			16493 Nov 13 21:28	0° ප	
evening set	16492 Dec 19 08:47	28° る 28'36		evening max el	16493 Nov 17 06:01	3° ප 53'16	19°45'21
inferior conj	16492 Dec 28 02:28	24° る 38'02	-5°44'13	desc. node	16493 Nov 22 19:46	7° る 55'23	
minimum elong	16492 Dec 27 19:33	24° පි 47'51		retrograde	16493 Nov 27 06:46	8° る 53'51	
min. Earth dist.	16492 Dec 28 21:47		0.54413 AU	evening set	16493 Nov 29 07:41	8° る 42'25	
		24 81037 20° る 45'52	0.5TT15 AU	-		6 04223 4° る 40'59	_4°32'21
morning rise	16493 Jan 05 06:26			inferior conj	16493 Dec 08 00:29		
direct	16493 Jan 09 10:01	20°る08'43	2205512.4	minimum elong	16493 Dec 07 14:31	4°る56'29	
morning max el	16493 Jan 22 12:00	26° る 32'05	22~5 / 34	min. Earth dist.	16493 Dec 10 04:53		0.55187 AU
	16493 Jan 25 18:27	0° ≈		morning rise	16493 Dec 15 19:54	0° る 26'47	
asc. node	16493 Jan 30 12:05	6° ≈ 12'37			16493 Dec 17 04:45	30°R. ✓	
	16493 Feb 12 15:37	0° ∀		direct	16493 Dec 21 00:23	29° ∡ °27′21	
morning set	16493 Feb 14 04:07	3° ¥ 12'51			16493 Dec 24 19:09	ರ∘ರ	
				morning max el	16494 Jan 03 20:09	6° る 21'53	24°47'32

asc. node	16494 Jan 17 09:18	24° る 11'10		direct	16494 Dec 02 03:41	9° √ 07'12	
use. noue	16494 Jan 20 17:35	0° ≈		morning max el	16494 Dec 16 07:52	16° ₹ 26'25	26°24'20
morning set	16494 Jan 29 16:07	17° ≈ 54'15		Č	16494 Dec 27 09:22	ರ°0	
	16494 Feb 04 04:28	0° ∀		asc. node	16495 Jan 04 06:28	12° る 52'56	
					16495 Jan 12 23:16	0° ≈	
superior conj	16494 Feb 05 10:09	2°) 43′36		morning set	16495 Jan 14 02:50	2° ≈ 27'23	
minimum elong	16494 Feb 05 11:27	2°) 50′50	1°33'32				
max. Earth dist.	16494 Feb 07 11:36	7°) (14'07	1.32086 AU	superior conj	16495 Jan 20 20:34	17°≈21'22	1°38'00
evening rise desc. node	16494 Feb 12 19:28 16494 Feb 18 19:53	18° ¥ 29'52 0° Y 15'35		minimum elong max. Earth dist.	16495 Jan 20 20:51 16495 Jan 21 17:12	17°≈22'59 19°≈16'30	1°38'28 1.31256 AU
desc. node	16494 Feb 18 16:33	0 1 13 33 0° Υ		max. Earm dist.	16495 Jan 26 14:37	0°)	1.31230 AU
	16494 Mar 09 16:35	% 8°0		evening rise	16495 Jan 27 20:03	2°) 36′20	
evening max el	16494 Mar 18 04:18	9° 8 37'21	27°36'18	desc. node	16495 Feb 05 16:37	19° X 59'56	
retrograde	16494 Apr 01 01:36	17° 8 08'14			16495 Feb 11 12:59	0° Y	
evening set	16494 Apr 07 20:42	14° 8 47'37		evening max el	16495 Feb 28 12:12	22° Y '04'19	27°24'57
min. Earth dist.	16494 Apr 11 15:03	11° 8 38'07	0.63089 AU	retrograde	16495 Mar 14 12:38	29° Y 27'26	
inferior conj	16494 Apr 14 12:15	8° 8 45'56	-0°14'42	evening set	16495 Mar 21 06:28	27° Y 23'27	
minimum elong	16494 Apr 14 12:44	8° 8 44'44	0°14'51	min. Earth dist.	16495 Mar 25 02:08	24° Y 35'00	0.60861 AU
transit middle	16494 Apr 14 12:44	8° 8 44'44	0°14'51	inferior conj	16495 Mar 28 06:39	21° Y 47'36	
transit begin	16494 Apr 14 11:34	8° 8 47'40		minimum elong	16495 Mar 28 10:06	21° Υ '40'01 18° Υ '01'49	1°33'00
transit end asc. node	16494 Apr 14 13:55 16494 Apr 15 06:51	8° 8 41'47 7° 8 59'50		asc. node	16495 Apr 02 04:06 16495 Apr 04 17:08	18° Y 01′49 16° Y 54′00	
morning rise	16494 Apr 21 07:28	3° 8 33'36		morning rise direct	16495 Apr 06 19:54	16 Υ 34 00 16° Υ 35'20	
direct	16494 Apr 23 16:53	3° 8 06'11		morning max el	16495 Apr 13 20:39	20°Υ06'35	17°54'05
morning max el	16494 Apr 30 04:26	6° 8 23'36	17°46'12	morning man vi	16495 Apr 21 05:25	0°8	1, 5.05
S	16494 May 15 19:28	0°II		morning set	16495 Apr 29 11:34	14° 8 28'28	
morning set	16494 May 16 11:39	1° Ⅱ 09'49		desc. node	16495 May 04 17:38	23° 8 57'25	
desc. node	16494 May 17 20:48	3° Ⅱ 32'49			16495 May 08 03:34	Π °0	
superior conj	16494 May 28 20:30	22° Ⅱ 05'49		superior conj	16495 May 10 04:55	3° ∏ 34'36	
minimum elong	16494 May 28 13:07	21° Ⅱ 35'25	1°21'11	minimum elong	16495 May 10 01:03	3° Ⅱ 17'53	
max. Earth dist.	16494 Jun 02 17:22 16494 Jun 04 00:11	0°ഇ 2° ഇ 03'10	1.44672 AU	max. Earth dist.	16495 May 17 14:46	16° Ⅲ 02'36 25° Ⅲ 59'23	1.43020 AU
evening rise	16494 Jun 12 23:04	2 \$303 10 16°\$02'35	1.440/2 AU	evening rise	16495 May 23 19:25 16495 May 26 09:02	23 п 3923	
evening rise	16494 Jun 22 05:08	0°Ω			16495 Jun 16 01:53	0°Ω	
evening max el	16494 Jul 12 05:43	26°Ω42'36	20°42'00	evening max el	16495 Jun 25 01:00	10° Ω 37'16	21°56'29
asc. node	16494 Jul 12 05:47	26° Ω 42'46		asc. node	16495 Jun 29 02:39	14° Ω 05'51	
	16494 Jul 16 05:17	0° ™		retrograde	16495 Jul 04 09:02	16° Ω 03'49	
retrograde	16494 Jul 20 10:46	1° m 24'45		evening set	16495 Jul 09 01:33	14° Ω 06′36	
	16494 Jul 24 07:59	30° R Ω		inferior conj	16495 Jul 14 07:16	7° Ω 49′23	3°07'05
evening set	16494 Jul 24 15:59	29° Ω 44'39		minimum elong	16495 Jul 14 06:52	7° Ω 50'45	3°06'32
inferior conj	16494 Jul 29 21:41	23° Ω 37'30	3°06'20	min. Earth dist.	16495 Jul 14 08:27	7° Ω 45'15	0.69140 AU
minimum elong	16494 Jul 29 22:14	23° Ω 35'33	3°05'53	morning rise	16495 Jul 19 12:02	1° Ω 33'17	
min. Earth dist. morning rise	16494 Jul 30 12:10 16494 Aug 04 04:12	22° Ω 47'31 17° Ω 14'57	0.68689 AU	direct	16495 Jul 21 22:34 16495 Jul 24 07:21	30° ₹© 29° © 31'15	
direct	16494 Aug 09 11:43	14°Ω56'23		unect	16495 Jul 26 19:33	29 3 31 13	
desc. node	16494 Aug 13 19:24	16°Ω10'51		desc. node	16495 Jul 31 16:40	3° Ω 06'30	
morning max el	16494 Aug 20 07:27	21° Ω 23'29	23°41'07	morning max el	16495 Aug 02 20:36	5° Ω 07'50	22°12'50
S	16494 Aug 27 18:18	0° m/		Č	16495 Aug 21 22:56	0° m/y	
	16494 Sep 17 11:55	0∘ ⊽		morning set	16495 Sep 04 21:13	21° m 24'09	
morning set	16494 Sep 24 06:16	11° ≏ 05'23		max. Earth dist.	16495 Sep 10 05:28	0° ჲ 09'30	1.41429 AU
max. Earth dist.	16494 Sep 28 03:27	17° ≏ 46′01	1.39060 AU		16495 Sep 10 03:12	0∘ ত	
	16494 Oct 04 21:59	0°M₊			164050 10.01.10	100 0 0 7	0050150
aumanian aani	16404 Oct 05 19:52	1011 27120	0021157	superior conj minimum elong	16495 Sep 18 01:18	13° £ 37'32 13° £ 58'51	
superior conj minimum elong	16494 Oct 05 18:53 16494 Oct 05 20:27	1°M37'39 1°M45'04		asc. node	16495 Sep 18 06:06 16495 Sep 25 03:27	26° £ 29'45	0 38 09
asc. node	16494 Oct 08 06:43	6°M21'04	3 2 123	use. 110de	16495 Sep 27 00:44	0°M	
evening rise	16494 Oct 14 20:58	19°M09'18		evening rise	16495 Sep 28 10:40	2°M37'58	
U -	16494 Oct 20 13:18	0° ∡ 7		evening max el	16495 Oct 14 08:24	28°M04'11	18°15'24
evening max el	16494 Oct 31 01:58	15° ∡ ³36'25	18°49'27	-	16495 Oct 16 14:20	0° ∡ ¹	
retrograde	16494 Nov 08 14:25	19° ∡ 54'45		retrograde	16495 Oct 21 17:33	1° ∡ 750′23	
desc. node	16494 Nov 09 16:54	19° ∡ 50'38		evening set	16495 Oct 23 19:20	1° ∡ ³33'07	
evening set	16494 Nov 10 12:07	19° ∡ 42'39			16495 Oct 27 03:45	30°RM.	
inferior conj	16494 Nov 18 16:49	15° ₹ 21'40		desc. node	16495 Oct 27 14:05	29°M43'13	1011144
minimum elong	16494 Nov 18 09:50	15° ∡ 34'17		inferior conj	16495 Oct 31 07:04	26°M50'45	
min. Earth dist.	16494 Nov 21 16:53	13° х 12′22 10° х 32′26	0.56745 AU	minimum elong	16495 Oct 31 04:24	26°M56'23	
morning rise	16494 Nov 26 04:36	10 X 32 26		min. Earth dist.	16495 Nov 03 13:03	24°M07'27	0.58817 AU

	1640531 05 10 01	010W 05111			161060 . 10 1511	0000004445	001411
morning rise	16495 Nov 07 10:01	21°M25'11		inferior conj	16496 Oct 12 17:14	9°M.04'17	0°14'11
direct	16495 Nov 13 20:58	19°M33'21		minimum elong	16496 Oct 12 17:41	9°M.03'11	0°14'20
morning max el	16495 Nov 28 03:50	27°ML13'01	27°30'46	transit middle	16496 Oct 12 17:41	9° M 03'11	0°14'20
	16495 Nov 30 20:14	0° ∡ ¹		transit begin	16496 Oct 12 16:11	9°M06'51	
	16495 Dec 21 00:28	0°ಕ		transit end	16496 Oct 12 19:12	8°M59'31	
asc. node	16495 Dec 22 03:35	2° る 06'47		desc. node	16496 Oct 13 11:20	8°M20'09	
morning set	16495 Dec 29 10:30	16° る 47'54		min. Earth dist.	16496 Oct 15 18:55	6° ™ 06'34	0.61111 AU
	16496 Jan 04 10:47	0° ≈		morning rise	16496 Oct 19 10:10	3°M09'46	
				direct	16496 Oct 26 02:30	0°M55'04	
superior conj	16496 Jan 05 07:58	1° ≈ 58'37	1°36'39	morning max el	16496 Nov 09 07:21	8° M 48'40	27°58'26
minimum elong	16496 Jan 05 07:12	1° ≈ 54'23	1°37'12		16496 Nov 25 15:29	0°⊀	
max. Earth dist.	16496 Jan 05 00:48	1° ≈ 18′27	1.30960 AU	asc. node	16496 Dec 08 00:37	21° х 43′29	
evening rise	16496 Jan 12 01:55	16° ≈ 54'09			16496 Dec 12 03:22	o°ප	
	16496 Jan 18 11:39	0° ∀		morning set	16496 Dec 12 13:06	0° ප 50'31	
desc. node	16496 Jan 23 13:23	9° ₩ 16'42		max. Earth dist.	16496 Dec 18 06:36	13° る 10'57	1.31220 AU
	16496 Feb 07 00:19	$0^{\circ}\Upsilon$					
evening max el	16496 Feb 10 13:17	3° Ƴ 40'37	26°38'27	superior conj	16496 Dec 19 18:28	16° ට 29'52	1°29'15
retrograde	16496 Feb 24 13:50	10° Y ′52'52		minimum elong	16496 Dec 19 16:48	16° ට 20'36	1°29'44
evening set	16496 Mar 01 23:21	9° Υ 12'00		mmmum erong	16496 Dec 25 20:38	0°≈	. 2,
min. Earth dist.	16496 Mar 06 02:57	6°Υ33'48	0.58604 AU	evening rise	16496 Dec 26 11:05	1°≈18'27	
inferior conj	16496 Mar 09 07:29	4° Υ 08'27		desc. node	16497 Jan 09 10:13	27°≈55'36	
minimum elong	16496 Mar 09 14:35		3°01'40	dese. Hode	16497 Jan 10 17:57	0° ∺	
minimum clong	16496 Mar 16 01:07	30°R ∺	3 01 40	evening max el	16497 Jan 22 06:09	14° H 24'44	25°19'53
morning rise		30 KX 29° X 36′01		Č		21°\dagger22'52	25 19 55
morning rise	16496 Mar 17 09:24	29° X 3601 29° X 22'35		retrograde	16497 Feb 05 03:11	20°\tag{09'26}	
direct	16496 Mar 19 08:18			evening set	16497 Feb 10 19:51		0.56575 ATT
asc. node	16496 Mar 19 01:23	29° ¥ 22'53		min. Earth dist.	16497 Feb 15 18:49	17° ¥ 26'54	0.56575 AU
	16496 Mar 22 12:39	0° Υ		inferior conj	16497 Feb 18 11:41	15°) ₹39'58	
morning max el	16496 Mar 27 07:50	3° Y 19′22	18°21'22	minimum elong	16497 Feb 18 21:10	15°) €24'19	4°31'14
morning set	16496 Apr 12 01:45	28° Y ′24'56		morning rise	16497 Feb 27 01:16	11° ¥ 28'39	
	16496 Apr 12 21:45	0° 8		direct	16497 Mar 01 02:08	11° 米 16′32	
desc. node	16496 Apr 20 14:25	14° 8 27'26		asc. node	16497 Mar 05 22:41	12°) 30′04	
				morning max el	16497 Mar 10 09:47	15°) 49′58	19°10'03
superior conj	16496 Apr 21 10:57	16° 8 01'23	-0°07'11		16497 Mar 20 08:59	0 ° $\mathbf{\Upsilon}$	
minimum elong	16496 Apr 21 10:23	15° 8 58'47	0°07'29	morning set	16497 Mar 27 01:49	12° Ƴ 46'41	
behind sun begin	16496 Apr 21 03:52	15° 8 29'02					
behind sun end	16496 Apr 21 16:54	16° 8 28'30		superior conj	16497 Apr 04 10:31	29° Ƴ 14'48	0°25'34
max. Earth dist.	16496 Apr 29 00:07	29° 8 20'52	1.40934 AU	minimum elong	16497 Apr 04 12:03	29° Ƴ 22'11	0°25'03
	16496 Apr 29 09:18	$\Pi^{\circ}0$			16497 Apr 04 19:56	0° 8	
evening rise	16496 May 03 11:11	6° Ⅱ 48'50		desc. node	16497 Apr 07 11:11	4° 8 59'25	
	16496 May 18 11:29	0 \circ \odot		max. Earth dist.	16497 Apr 11 06:18	11° 8 57'12	1.38646 AU
evening max el	16496 Jun 06 16:14	24° © 31'48	23°17'21	evening rise	16497 Apr 15 00:22	18° 8 33'51	
	16496 Jun 13 23:53	$0^{\circ}\Omega$			16497 Apr 21 21:04	Π $^{\circ}0$	
asc. node	16496 Jun 14 23:36	0° Ω 21'43			16497 May 12 17:53	0ංම	
retrograde	16496 Jun 17 05:04	0° Ω 42'52		evening max el	16497 May 20 05:54	8° 5 27'41	24°38'14
•	16496 Jun 20 04:42	30° ℝ		retrograde	16497 May 31 21:38	15°©15'59	
evening set	16496 Jun 22 09:09	28°930'45		asc. node	16497 Jun 01 20:37	15°5512'08	
min. Earth dist.	16496 Jun 27 05:21	22°9546'37	0.69097 AU	evening set	16497 Jun 06 13:11	12° © 52'18	
inferior conj	16496 Jun 27 17:12	22° © 05'39	2°57'20	min. Earth dist.	16497 Jun 11 00:45	7° © 45'29	0.68570 AU
minimum elong	16496 Jun 27 15:56	22°9510'00		inferior conj	16497 Jun 12 01:36	6°522'27	2°37'01
morning rise	16496 Jul 02 22:40	15°957'32		minimum elong	16497 Jun 11 23:41	6°928'50	2°36'00
direct	16496 Jul 07 05:55	14°5514'20		morning rise	16497 Jun 17 10:22	0°923'37	2 30 00
morning max el	16496 Jul 15 14:23	19°901'20	20°51'19	morning rise	16497 Jun 18 00:19	30°RII	
desc. node	16496 Jul 17 13:52	21°906'38	20 31 17	direct	16497 Jun 21 06:07	28° ∏ 59'51	
desc. Hode	16496 Jul 24 16:16	0°Ω		uncet	16497 Jun 24 16:45	0°9	
				mamina may al		ა ფ 3° © 05'07	19°41'57
	16496 Aug 14 01:38	0°M)		morning max el desc. node	16497 Jun 28 14:56 16497 Jul 04 11:01	9° 9 54'33	19 41 37
morning set	16496 Aug 14 13:50	0° Mp 47'20	1 42402 ATT				0.6
max. Earth dist.	16496 Aug 22 13:20	13° m) 24'38	1.43492 AU	greatest brilliancy	16497 Jul 11 21:00	20°917'54	-0.6m
	16406 4 20 10 00	0.40m: 41140	102425		16497 Jul 18 09:18	0°Ω	
superior conj	16496 Aug 29 10:03	24° m/41'48		morning set	16497 Jul 24 18:27	9° Ω 42'50	1 45020 : **
minimum elong	16496 Aug 29 17:38	25° m 13'40	1~33'49	max. Earth dist.	16497 Aug 05 03:31	27° Ω 23'47	1.45029 AU
	16496 Sep 01 13:14	0∘ ⊽			16497 Aug 06 19:00	0° m	
evening rise	16496 Sep 10 10:18	15° ≙ 29'30					
asc. node	16496 Sep 11 00:10	16° ≏ 30'51		superior conj	16497 Aug 09 19:26	4° M) 48'44	
	16496 Sep 18 19:07	0°M₊		minimum elong	16497 Aug 10 02:28	5° Mp 16'58	2°02'04
evening max el	16496 Sep 26 21:04	11°ML06'19	18°01'32	evening rise	16497 Aug 23 14:39	27° m 30'57	
retrograde	16496 Oct 03 13:07	14°M33'02			16497 Aug 25 02:07	0∘ ⊽	
evening set	16496 Oct 05 22:13	14°ML06'33		asc. node	16497 Aug 28 20:54	6° £ 20′23	

avanina may al	16497 Sep 10 12:05	24° £ 33'31	18°06'25		16498 Aug 18 11:50	0∘ ⊽	
evening max el retrograde	16497 Sep 16 12:05	24 ⊆ 53 51 27° ⊆ 53'58	18 00 23	evening max el	16498 Aug 25 02:01	0 = 8° £ 16'38	18°29'07
•	•	27° 2 14'45		•	16498 Aug 31 12:55	8 2 10 38 11° 2 44'16	18 29 07
evening set	16497 Sep 19 14:35		1020150	retrograde			
inferior conj	16497 Sep 25 19:32	21° £ 54'50	1°20'59	evening set	16498 Sep 03 15:44	10° £ 49'35	2000120
minimum elong	16497 Sep 25 21:30	21° £ 49'25	1°20'29	inferior conj	16498 Sep 09 09:59	5° ₽ 14'16	2°09'28
min. Earth dist.	16497 Sep 28 10:44	19° £ 02'46	0.63358 AU	minimum elong	16498 Sep 09 12:17	5° ₾ 07'20	2°08'51
desc. node	16497 Sep 30 08:36	17° Ω 08'56		min. Earth dist.	16498 Sep 11 11:58	2° ₽ 44'14	0.65357 AU
morning rise	16497 Oct 02 02:19	15° £ 41'15			16498 Sep 14 00:36	30°R, Mp	
direct	16497 Oct 08 18:00	13° ⊆ 11'14		morning rise	16498 Sep 15 07:34	28° m 50'27	
morning max el	16497 Oct 22 15:58	21° ≙ 09'17	27°47'33	desc. node	16498 Sep 17 05:54	27° m 29'26	
	16497 Oct 30 08:54	0° M ₊		direct	16498 Sep 21 17:37	26° m 13'56	
	16497 Nov 18 18:14	0° ∡			16498 Sep 30 13:35	0∘ ত	
asc. node	16497 Nov 24 21:36	11° ∡ ³36′37		morning max el	16498 Oct 05 03:08	4° ≏ 04'52	27°03'52
morning set	16497 Nov 26 08:21	14° ∡ ³30′08			16498 Oct 24 20:01	0°M₊	
max. Earth dist.	16497 Dec 01 06:57	24° ∡ ¹46'48	1.32061 AU	morning set	16498 Nov 09 17:32	27° M 41'04	
	16497 Dec 03 16:59	0°₹			16498 Nov 10 22:04	0° ∡ ¹	
				asc. node	16498 Nov 11 18:32	1° ∡ ′40′56	
superior conj	16497 Dec 04 02:10	0°る50'02	1°15'42	max. Earth dist.	16498 Nov 13 22:56	6° ∡ 04'13	1.33469 AU
minimum elong	16497 Dec 03 23:54	0° る 37'41	1°16'01				
evening rise	16497 Dec 10 21:46	15° ප් 45'10		superior conj	16498 Nov 18 04:49	14° х 53'47	0°55'54
	16497 Dec 17 20:40	0° ≈		minimum elong	16498 Nov 18 02:29	14° ∡ ′41′25	0°56'06
desc. node	16497 Dec 27 07:07	15° ≈ 42'40		evening rise	16498 Nov 25 08:09	0° ರ 10'18	
evening max el	16498 Jan 03 16:32	24° ≈ 29′04	23°40'14		16498 Nov 25 06:12	0°ರ	
	16498 Jan 11 15:36	0°) €			16498 Dec 12 05:02	0° ≈	
retrograde	16498 Jan 17 02:29	1°) €07'30		desc. node	16498 Dec 14 04:05	2° ≈ 20′21	
evening set	16498 Jan 21 17:42	0°) €21'06		evening max el	16498 Dec 16 03:45	4° ≈ 25'35	21°57'21
	16498 Jan 22 17:33	30°R≈		retrograde	16498 Dec 28 14:25	10° ≈ 34'37	
min. Earth dist.	16498 Jan 28 03:50	27° ≈ 16'36	0.55084 AU	evening set	16498 Dec 31 23:17	10° ≈ 09'17	
inferior conj	16498 Jan 29 19:07	26° ≈ 19′02	-5°42'11	inferior conj	16499 Jan 09 12:09	6° ≈ 19'03	-6°01'23
minimum elong	16498 Jan 30 01:53	26°≈09'07	5°40'50	minimum elong	16499 Jan 09 10:11	6° ≈ 21'48	6°00'47
morning rise	16498 Feb 07 11:33	22° ≈ 24'48		min. Earth dist.	16499 Jan 09 09:07	6° ≈ 23'18	0.54393 AU
direct	16498 Feb 10 00:45	22° ≈ 08'44		morning rise	16499 Jan 17 21:52	2° ≈ 31'35	
asc. node	16498 Feb 20 19:59	27° ≈ 20'19		direct	16499 Jan 21 10:10	2° ≈ 04'25	
morning max el	16498 Feb 20 22:15	27° ≈ 25'47	20°21'58	morning max el	16499 Feb 02 19:34	8° ≈ 04'41	21°56'08
5 5	16498 Feb 23 07:46	0°) €		asc. node	16499 Feb 07 17:16	13° ≈ 38'03	
morning set	16498 Mar 11 08:17	27°) €22'39			16499 Feb 17 19:08	0°) €	
	16498 Mar 12 14:52	0°Υ		morning set	16499 Feb 23 18:31	12° ¥ 05'20	
						/(** -*	
						2701/12/10	1°13'22
superior conj	16498 Mar 18 23:16	13° Y ′02′00	0°52'36	superior conj	16499 Mar 02 21:33	27°) 13'18	1 1 2 2 2
1 2		13° Υ 02'00 13° Υ 14'16		superior conj minimum elong			
minimum elong	16498 Mar 19 01:41	13° Ƴ 14'16	0°52'08	minimum elong	16499 Mar 02 23:58	27° H 26'01 0° Υ	
minimum elong max. Earth dist.				minimum elong	16499 Mar 02 23:58 16499 Mar 04 05:26	27°) € 26'01	1°13'08
minimum elong	16498 Mar 19 01:41 16498 Mar 24 13:30 16498 Mar 25 07:56	13° Y 14'16 24° Y 01'27 25° Y 28'54	0°52'08	minimum elong max. Earth dist.	16499 Mar 02 23:58 16499 Mar 04 05:26 16499 Mar 07 01:57	27° ¥ 26'01 0° Υ 5° Υ 51'24	
minimum elong max. Earth dist. desc. node	16498 Mar 19 01:41 16498 Mar 24 13:30 16498 Mar 25 07:56 16498 Mar 27 18:10	13°Υ14'16 24°Υ01'27 25°Υ28'54 0°႘	0°52'08	minimum elong max. Earth dist. evening rise	16499 Mar 02 23:58 16499 Mar 04 05:26 16499 Mar 07 01:57 16499 Mar 11 07:56	27°) 26'01 0° Υ' 5° Υ '51'24 14° Υ '13'24	1°13'08
minimum elong max. Earth dist.	16498 Mar 19 01:41 16498 Mar 24 13:30 16498 Mar 25 07:56 16498 Mar 27 18:10 16498 Mar 28 08:27	13°Y14'16 24°Y01'27 25°Y28'54 0°8 1°805'15	0°52'08	minimum elong max. Earth dist.	16499 Mar 02 23:58 16499 Mar 04 05:26 16499 Mar 07 01:57 16499 Mar 11 07:56 16499 Mar 12 04:40	27° X 26'01 0° Υ 5° Υ 51'24 14° Υ 13'24 15° Υ 52'08	1°13'08
minimum elong max. Earth dist. desc. node evening rise	16498 Mar 19 01:41 16498 Mar 24 13:30 16498 Mar 25 07:56 16498 Mar 27 18:10 16498 Mar 28 08:27 16498 Apr 15 00:24	13°Y14'16 24°Y01'27 25°Y28'54 0°℧ 1°℧05'15	0°52'08 1.36396 AU	minimum elong max. Earth dist. evening rise	16499 Mar 02 23:58 16499 Mar 04 05:26 16499 Mar 07 01:57 16499 Mar 11 07:56 16499 Mar 12 04:40 16499 Mar 20 01:48	27° χ26'01 0° Υ' 5° Υ'51'24 14° Υ'13'24 15° Υ'52'08 0° ႘	1°13'08
minimum elong max. Earth dist. desc. node evening rise evening max el	16498 Mar 19 01:41 16498 Mar 24 13:30 16498 Mar 25 07:56 16498 Mar 27 18:10 16498 Mar 28 08:27 16498 Apr 15 00:24 16498 May 02 19:32	13°Y14'16 24°Y01'27 25°Y28'54 0°℧ 1°℧05'15 0°Ⅲ 22°Ⅲ21'15	0°52'08 1.36396 AU	minimum elong max. Earth dist. evening rise desc. node	16499 Mar 02 23:58 16499 Mar 04 05:26 16499 Mar 07 01:57 16499 Mar 11 07:56 16499 Mar 12 04:40 16499 Mar 20 01:48 16499 Apr 09 18:34	27° χ26'01 0° Υ' 5° Υ'51'24 14° Υ'13'24 15° Υ'52'08 0° ႘ 0° Π	1°13'08 1.34394 AU
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde	16498 Mar 19 01:41 16498 Mar 24 13:30 16498 Mar 25 07:56 16498 Mar 27 18:10 16498 Mar 28 08:27 16498 Apr 15 00:24 16498 May 02 19:32 16498 May 15 09:30	13°Y14'16 24°Y01'27 25°Y28'54 0°℧ 1°℧05'15 0°Ⅲ 22°Ⅲ21'15 29°Ⅲ35'37	0°52'08 1.36396 AU	minimum elong max. Earth dist. evening rise desc. node evening max el	16499 Mar 02 23:58 16499 Mar 04 05:26 16499 Mar 07 01:57 16499 Mar 11 07:56 16499 Mar 12 04:40 16499 Mar 20 01:48 16499 Apr 09 18:34 16499 Apr 15 09:20	27°¥26'01 0°°Y 5°°Y51'24 14°°Y13'24 15°°Y52'08 0°∀ 0°∏ 6°∏04'58	1°13'08 1.34394 AU
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node	16498 Mar 19 01:41 16498 Mar 24 13:30 16498 Mar 25 07:56 16498 Mar 27 18:10 16498 Mar 28 08:27 16498 Apr 15 00:24 16498 May 02 19:32 16498 May 15 09:30 16498 May 19 17:43	13°Y14'16 24°Y01'27 25°Y28'54 0°℧ 1°℧05'15 0°Ⅲ 22°Ⅲ21'15 29°Ⅲ35'37 28°Ⅲ20'20	0°52'08 1.36396 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	16499 Mar 02 23:58 16499 Mar 04 05:26 16499 Mar 07 01:57 16499 Mar 11 07:56 16499 Mar 12 04:40 16499 Apr 09 18:34 16499 Apr 15 09:20 16499 Apr 28 15:50	27° ¥26'01 0° Υ 5° Υ 51'24 14° Υ 13'24 15° Υ 52'08 0° ႘ 0° ႘ 6° Π 04'58 13° Π 33'56	1°13'08 1.34394 AU
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set	16498 Mar 19 01:41 16498 Mar 24 13:30 16498 Mar 25 07:56 16498 Mar 27 18:10 16498 Mar 28 08:27 16498 Mar 15 00:24 16498 May 02 19:32 16498 May 15 09:30 16498 May 19 17:43 16498 May 21 11:52	13°Υ14'16 24°Υ01'27 25°Υ28'54 0°႘ 1°႘05'15 0°Ⅲ 22°Ⅲ21'15 29°Ⅲ35'37 28°Ⅲ20'20 27°Ⅲ04'44	0°52'08 1.36396 AU 25°51'58	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	16499 Mar 02 23:58 16499 Mar 04 05:26 16499 Mar 07 01:57 16499 Mar 11 07:56 16499 Mar 12 04:40 16499 Apr 20 01:48 16499 Apr 09 18:34 16499 Apr 15 09:20 16499 Apr 28 15:50 16499 May 05 03:19	27° X 26'01 0° Υ 5° Υ 51'24 14° Υ 13'24 15° Υ 52'08 0° B 0° B 13° <u>H</u> 33'56 11° <u>H</u> 01'21	1°13'08 1.34394 AU
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist.	16498 Mar 19 01:41 16498 Mar 24 13:30 16498 Mar 25 07:56 16498 Mar 27 18:10 16498 Mar 28 08:27 16498 Apr 15 00:24 16498 May 02 19:32 16498 May 15 09:30 16498 May 19 17:43 16498 May 21 11:52 16498 May 25 16:27	13°Υ14'16 24°Υ01'27 25°Υ28'54 0°႘ 1°႘05'15 0°Π 22°Π21'15 29°Π35'37 28°Π20'20 27°Π04'44 22°Π34'30	0°52'08 1.36396 AU 25°51'58 0.67568 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node	16499 Mar 02 23:58 16499 Mar 04 05:26 16499 Mar 07 01:57 16499 Mar 11 07:56 16499 Mar 12 04:40 16499 Apr 20 01:48 16499 Apr 09 18:34 16499 Apr 15 09:20 16499 Apr 28 15:50 16499 May 05 03:19 16499 May 06 14:51	27° χ 26'01 0° Υ' 5° Υ' 51'24 14° Υ' 13'24 15° Υ' 52'08 0° Β' 0° Π' 6° Π' 04'58 13° Π' 33'56 11° Π' 01'21 9° Π' 43'25	1°13'08 1.34394 AU 26°50'59
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj	16498 Mar 19 01:41 16498 Mar 24 13:30 16498 Mar 25 07:56 16498 Mar 27 18:10 16498 Mar 28 08:27 16498 Apr 15 00:24 16498 May 02 19:32 16498 May 15 09:30 16498 May 19 17:43 16498 May 21 11:52 16498 May 25 16:27 16498 May 27 06:26	13°Y14'16 24°Y01'27 25°Y28'54 0°℧ 1°℧05'15 0°Ⅲ 22°Ⅲ21'15 29°Ⅲ35'37 28°Ⅲ20'20 27°Ⅲ04'44 22°Ⅲ34'30 20°Ⅲ34'29	0°52'08 1.36396 AU 25°51'58 0.67568 AU 2°05'35	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist.	16499 Mar 02 23:58 16499 Mar 04 05:26 16499 Mar 07 01:57 16499 Mar 11 07:56 16499 Mar 12 04:40 16499 Apr 20 01:48 16499 Apr 09 18:34 16499 Apr 15 09:20 16499 Apr 28 15:50 16499 May 05 03:19 16499 May 06 14:51 16499 May 09 02:19	27° X 26'01 0° Υ 5° Υ'51'24 14° Υ'13'24 15° Υ'52'08 0° X 0° Π 6° Π04'58 13° Π33'56 11° Π01'21 9° Π43'25 7° Π05'48	1°13'08 1.34394 AU 26°50'59 0.66119 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	16498 Mar 19 01:41 16498 Mar 24 13:30 16498 Mar 25 07:56 16498 Mar 27 18:10 16498 Mar 28 08:27 16498 Apr 15 00:24 16498 May 02 19:32 16498 May 15 09:30 16498 May 19 17:43 16498 May 21 11:52 16498 May 25 16:27 16498 May 27 06:26 16498 May 27 04:14	13°Y14'16 24°Y01'27 25°Y28'54 0°℧ 1°℧05'15 0°Ⅲ 22°Ⅲ21'15 29°Ⅲ35'37 28°Ⅲ20'20 27°Ⅲ04'44 22°Ⅲ34'30 20°Ⅲ34'29 20°Ⅲ41'26	0°52'08 1.36396 AU 25°51'58 0.67568 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj	16499 Mar 02 23:58 16499 Mar 04 05:26 16499 Mar 07 01:57 16499 Mar 11 07:56 16499 Mar 12 04:40 16499 Mar 20 01:48 16499 Apr 09 18:34 16499 Apr 15 09:20 16499 Apr 28 15:50 16499 May 05 03:19 16499 May 06 14:51 16499 May 09 02:19 16499 May 11 05:24	27° X 26'01 0° Υ 5° Υ'51'24 14° Υ'13'24 15° Υ'52'08 0° X 0° Π 6° Π04'58 13° Π33'56 11° Π01'21 9° Π43'25 7° Π05'48 4° Π36'22	1°13'08 1.34394 AU 26°50'59 0.66119 AU 1°21'55
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	16498 Mar 19 01:41 16498 Mar 24 13:30 16498 Mar 25 07:56 16498 Mar 27 18:10 16498 Mar 28 08:27 16498 Apr 15 00:24 16498 May 02 19:32 16498 May 15 09:30 16498 May 19 17:43 16498 May 21 11:52 16498 May 27 06:26 16498 May 27 04:14 16498 Jun 01 21:13	13°Y14'16 24°Y01'27 25°Y28'54 0°8 1°805'15 0°II 22°II21'15 29°II35'37 28°II20'20 27°II04'44 22°II34'30 20°II34'29 20°II41'26 14°II46'22	0°52'08 1.36396 AU 25°51'58 0.67568 AU 2°05'35	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist.	16499 Mar 02 23:58 16499 Mar 04 05:26 16499 Mar 07 01:57 16499 Mar 11 07:56 16499 Mar 12 04:40 16499 Mar 20 01:48 16499 Apr 09 18:34 16499 Apr 15 09:20 16499 May 05 03:19 16499 May 06 14:51 16499 May 09 02:19 16499 May 11 05:24 16499 May 11 05:24	27° X 26'01 0° Υ 5° Υ'51'24 14° Υ'13'24 15° Υ'52'08 0° X 0° X 13' X3'56 11° X 01'21 9° X 43'25 7° X 05'48 4° X 36'22 4° X 41'54	1°13'08 1.34394 AU 26°50'59 0.66119 AU 1°21'55
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	16498 Mar 19 01:41 16498 Mar 24 13:30 16498 Mar 25 07:56 16498 Mar 27 18:10 16498 Mar 28 08:27 16498 Apr 15 00:24 16498 May 02 19:32 16498 May 15 09:30 16498 May 19 17:43 16498 May 21 11:52 16498 May 27 06:26 16498 May 27 04:14 16498 Jun 01 21:13 16498 Jun 05 06:12	13°Y14'16 24°Y01'27 25°Y28'54 0°℧ 1°℧05'15 0°Ⅲ 22°Ⅲ21'15 29°Ⅲ35'37 28°Ⅲ20'20 27°Ⅲ04'44 22°Ⅲ34'30 20°Ⅲ34'29 20°Ⅲ41'26 14°Ⅲ46'22 13°Ⅲ41'21	0°52'08 1.36396 AU 25°51'58 0.67568 AU 2°05'35 2°04'23	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	16499 Mar 02 23:58 16499 Mar 04 05:26 16499 Mar 07 01:57 16499 Mar 11 07:56 16499 Mar 12 04:40 16499 Mar 20 01:48 16499 Apr 09 18:34 16499 Apr 15 09:20 16499 May 05 03:19 16499 May 06 14:51 16499 May 09 02:19 16499 May 11 05:24 16499 May 11 03:31 16499 May 15 17:09	27° X 26'01 0° Υ' 5° Υ'51'24 14° Υ'13'24 15° Υ'52'08 0° Β΄ 0° Π΄ 6° Π04'58 13° Π33'56 11° Π01'21 9° Π43'25 7° Π05'48 4° Π36'22 4° Π41'54 30° R&	1°13'08 1.34394 AU 26°50'59 0.66119 AU 1°21'55
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	16498 Mar 19 01:41 16498 Mar 24 13:30 16498 Mar 25 07:56 16498 Mar 27 18:10 16498 Mar 28 08:27 16498 Apr 15 00:24 16498 May 02 19:32 16498 May 15 09:30 16498 May 19 17:43 16498 May 21 11:52 16498 May 27 06:26 16498 May 27 04:14 16498 Jun 01 21:13 16498 Jun 05 06:12 16498 Jun 11 22:37	13°Y14'16 24°Y01'27 25°Y28'54 0°℧ 1°℧05'15 0°Ⅲ 22°Ⅲ21'15 29°Ⅲ35'37 28°Ⅲ20'20 27°Ⅲ04'44 22°Ⅲ34'30 20°Ⅲ34'29 20°Ⅲ41'26 14°Ⅲ46'22 13°Ⅲ41'21 17°Ⅲ16'44	0°52'08 1.36396 AU 25°51'58 0.67568 AU 2°05'35	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	16499 Mar 02 23:58 16499 Mar 04 05:26 16499 Mar 07 01:57 16499 Mar 11 07:56 16499 Mar 12 04:40 16499 Mar 20 01:48 16499 Apr 09 18:34 16499 Apr 15 09:20 16499 May 05 03:19 16499 May 06 14:51 16499 May 09 02:19 16499 May 11 05:24 16499 May 11 03:31 16499 May 15 17:09 16499 May 17 05:03	27° \(\) 26'01 0° \(\gamma\) 5° \(\gamma\) 51'24 14° \(\gamma\) 13'24 15° \(\gamma\) 52'08 0° \(\gamma\) 6° \(\mathbb{\Pi}\) 04'58 13° \(\mathbb{\Pi}\) 03'56 11° \(\mathbb{\Pi}\) 01'21 9° \(\mathbb{\Pi}\) 43'25 7° \(\mathbb{\Pi}\) 05'48 4° \(\mathbb{\Pi}\) 136'22 4° \(\mathbb{\Pi}\) 141'54 30° \(\mathbb{\Pi}\) 800'41	1°13'08 1.34394 AU 26°50'59 0.66119 AU 1°21'55
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	16498 Mar 19 01:41 16498 Mar 24 13:30 16498 Mar 25 07:56 16498 Mar 27 18:10 16498 Mar 28 08:27 16498 Apr 15 00:24 16498 May 02 19:32 16498 May 15 09:30 16498 May 19 17:43 16498 May 21 11:52 16498 May 27 06:26 16498 May 27 04:14 16498 Jun 01 21:13 16498 Jun 05 06:12 16498 Jun 11 22:37 16498 Jun 21 08:07	13°Y14'16 24°Y01'27 25°Y28'54 0°℧ 1°℧05'15 0°Ⅲ 22°Ⅲ21'15 29°Ⅲ35'37 28°Ⅲ20'20 27°Ⅲ04'44 22°Ⅲ34'30 20°Ⅲ41'26 14°Ⅲ46'22 13°Ⅲ41'21 17°Ⅲ16'44 29°Ⅲ17'18	0°52'08 1.36396 AU 25°51'58 0.67568 AU 2°05'35 2°04'23	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	16499 Mar 02 23:58 16499 Mar 04 05:26 16499 Mar 07 01:57 16499 Mar 11 07:56 16499 Mar 12 04:40 16499 Mar 20 01:48 16499 Apr 09 18:34 16499 Apr 15 09:20 16499 May 05 03:19 16499 May 06 14:51 16499 May 09 02:19 16499 May 11 05:24 16499 May 11 03:31 16499 May 15 17:09 16499 May 17 05:03 16499 May 20 04:04	27° \(26'01\) 0° \(\gamma \) 5° \(\gamma \) 13'24 14° \(\gamma \) 13'24 15° \(\gamma \) 0° \(\gamma \) 0° \(\gamma \) 6° \(\gamma \) 0° \(\gamma \) 6° \(\gamma \) 10'158 13° \(\gamma \) 13'31'56 11° \(\gamma \) 10'121 9° \(\gamma \) 4° \(\gamma \) 30'22 4° \(\gamma \) 4° \(\gamma \) 30° \(\gamma \) 29° \(\gamma \) 29° \(\gamma \) 30'41 28° \(\gamma \) 21'33	1°13'08 1.34394 AU 26°50'59 0.66119 AU 1°21'55
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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 greatest brilliancy morning set max. Earth dist.	16498 Mar 19 01:41 16498 Mar 24 13:30 16498 Mar 25 07:56 16498 Mar 27 18:10 16498 Mar 28 08:27 16498 Mar 28 08:27 16498 May 02 19:32 16498 May 15 09:30 16498 May 19 17:43 16498 May 21 11:52 16498 May 27 06:26 16498 May 27 06:26 16498 May 27 04:14 16498 Jun 01 21:13 16498 Jun 01 21:13 16498 Jun 11 22:37 16498 Jun 21 08:07 16498 Jun 21 19:45 16498 Jun 25 17:21 16498 Jun 11 07:23 16498 Jul 11 07:23 16498 Jul 18 22:22	13°Y14'16 24°Y01'27 25°Y28'54 0°8 1°805'15 0°11 22°11'15 29°135'37 28°120'20 27°104'44 22°134'30 20°134'29 20°114'26 14°146'22 13°114'12 17°116'44 29°117'18 0°9 5°951'34 19°902'47 0°0 11°052'17 14°011'40 14°015'34	0°52'08 1.36396 AU 25°51'58 0.67568 AU 2°05'35 2°04'23 18°47'51 -0.8m 1.45885 AU -2°14'18	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set	16499 Mar 02 23:58 16499 Mar 04 05:26 16499 Mar 07 01:57 16499 Mar 11 07:56 16499 Mar 12 04:40 16499 Mar 20 01:48 16499 Apr 09 18:34 16499 Apr 15 09:20 16499 May 05 03:19 16499 May 06 14:51 16499 May 06 14:51 16499 May 11 05:24 16499 May 11 03:31 16499 May 15 17:09 16499 May 17 05:03 16499 May 20 04:04 16499 May 20 04:04 16499 May 26 12:09 16499 Jun 08 05:10 16499 Jun 15 00:37 16499 Jun 15 00:37	27° \(26'01\) 0° \(\gamma \) 5° \(\gamma \) 13'24 15° \(\gamma \) 15° \(\gamma \) 0° \(\gamma \) 10' \(\gamma \) 29° \(\gamma \) 10' \(\gamma \) 10' \(\gamma \) 29° \(\gamma \) 29° \(\gamma \) 23° \(\sigma \)	1°13'08 1.34394 AU 26°50'59 0.66119 AU 1°21'55 1°20'45 18°10'23
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 greatest brilliancy morning set max. Earth dist. superior conj minimum elong	16498 Mar 19 01:41 16498 Mar 24 13:30 16498 Mar 25 07:56 16498 Mar 27 18:10 16498 Mar 28 08:27 16498 Mar 28 08:27 16498 May 02 19:32 16498 May 15 09:30 16498 May 19 17:43 16498 May 21 11:52 16498 May 27 06:26 16498 May 27 06:26 16498 May 27 04:14 16498 Jun 01 21:13 16498 Jun 01 21:13 16498 Jun 11 22:37 16498 Jun 21 08:07 16498 Jun 21 19:45 16498 Jun 25 17:21 16498 Jun 11 07:23 16498 Jul 11 07:23 16498 Jul 18 22:22	13°Y14'16 24°Y01'27 25°Y28'54 0°8 1°805'15 0°II 22°II21'15 29°II35'37 28°II20'20 27°II04'44 22°II34'30 20°II34'29 20°II41'26 14°II46'22 13°II1'18 0°S 5°S51'34 19°S02'47 0°R 11°R52'17 14°R11'40 14°R15'34 0°III'40	0°52'08 1.36396 AU 25°51'58 0.67568 AU 2°05'35 2°04'23 18°47'51 -0.8m 1.45885 AU -2°14'18	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set	16499 Mar 02 23:58 16499 Mar 04 05:26 16499 Mar 07 01:57 16499 Mar 11 07:56 16499 Mar 12 04:40 16499 Mar 20 01:48 16499 Apr 09 18:34 16499 Apr 15 09:20 16499 May 05 03:19 16499 May 06 14:51 16499 May 06 14:51 16499 May 11 05:24 16499 May 11 03:31 16499 May 15 17:09 16499 May 17 05:03 16499 May 20 04:04 16499 May 20 04:04 16499 May 26 12:09 16499 Jun 08 05:10 16499 Jun 15 00:37 16499 Jun 15 00:37	27°\(26'01\) 0°\(Y'\) 5°\(Y'\)51'24 14°\(Y'\)13'24 15°\(Y'\)52'08 0°\(B'\) 0°\(II\) 6°\(II\)04'58 13°\(II\)33'56 11°\(II\)01'21 9°\(II\)33'56 11°\(II\)01'21 9°\(II\)36'22 4°\(II\)41'54 30°\(B'\) 29°\(B\)00'\(II\) 1°\(II\)31'\(I	1°13'08 1.34394 AU 26°50'59 0.66119 AU 1°21'55 1°20'45 18°10'23
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 greatest brilliancy morning set max. Earth dist. superior conj	16498 Mar 19 01:41 16498 Mar 24 13:30 16498 Mar 25 07:56 16498 Mar 27 18:10 16498 Mar 28 08:27 16498 Mar 28 08:27 16498 May 02 19:32 16498 May 15 09:30 16498 May 19 17:43 16498 May 21 11:52 16498 May 27 06:26 16498 May 27 06:26 16498 May 27 04:14 16498 Jun 01 21:13 16498 Jun 01 21:13 16498 Jun 11 22:37 16498 Jun 21 08:07 16498 Jun 21 19:45 16498 Jun 25 17:21 16498 Jun 11 07:23 16498 Jul 11 07:23 16498 Jul 18 22:22	13°Y14'16 24°Y01'27 25°Y28'54 0°8 1°805'15 0°11 22°11'15 29°135'37 28°120'20 27°104'44 22°134'30 20°134'29 20°114'26 14°146'22 13°114'12 17°116'44 29°117'18 0°9 5°951'34 19°902'47 0°0 11°052'17 14°011'40 14°015'34	0°52'08 1.36396 AU 25°51'58 0.67568 AU 2°05'35 2°04'23 18°47'51 -0.8m 1.45885 AU -2°14'18	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set	16499 Mar 02 23:58 16499 Mar 04 05:26 16499 Mar 07 01:57 16499 Mar 11 07:56 16499 Mar 12 04:40 16499 Mar 20 01:48 16499 Apr 09 18:34 16499 Apr 15 09:20 16499 May 05 03:19 16499 May 06 14:51 16499 May 06 14:51 16499 May 11 05:24 16499 May 11 03:31 16499 May 15 17:09 16499 May 17 05:03 16499 May 20 04:04 16499 May 20 04:04 16499 May 26 12:09 16499 Jun 08 05:10 16499 Jun 15 00:37 16499 Jun 15 00:37	27° \(26'01\) 0° \(\gamma \) 5° \(\gamma \) 13'24 15° \(\gamma \) 15° \(\gamma \) 0° \(\gamma \) 10' \(\gamma \) 29° \(\gamma \) 10' \(\gamma \) 10' \(\gamma \) 29° \(\gamma \) 29° \(\gamma \) 23° \(\sigma \)	1°13'08 1.34394 AU 26°50'59 0.66119 AU 1°21'55 1°20'45 18°10'23

	16400 1 1 22 00 26	00 m -			16500 1 1 17 11 14	00 m -	
	16499 Jul 23 09:26	0° Mp	0.7		16500 Jul 17 11:14	0°M)	
greatest brilliancy	16499 Jul 27 07:32	5° m 57'19	-0.7m	asc. node	16500 Jul 20 11:13	3°M)39'15	20902150
asc. node	16499 Aug 02 14:25	15° Mp 01'56	19°08'43	evening max el	16500 Jul 22 16:41 16500 Jul 30 08:32	6° My 02'37 10° My 22'35	20°03'59
evening max el	16499 Aug 08 12:08 16499 Aug 15 09:39	22° m 07'54 25° m 55'45	19 06 43	retrograde		8° m) 52'54	
retrograde evening set	16499 Aug 18 22:10	23 m/33 43 24°m/43'55		evening set inferior conj	16500 Aug 03 07:22 16500 Aug 08 14:11	2° My 51'58	3°00'55
inferior conj	16499 Aug 24 09:09	18° M) 55'01	2°42'01	minimum elong	16500 Aug 08 14:11 16500 Aug 08 15:17	2° m) 48'14	3°00'28
minimum elong	16499 Aug 24 11:02	18° my 48'54	2°41'29	min. Earth dist.	16500 Aug 09 12:27	1° m) 36'22	0.68202 AU
min. Earth dist.	16499 Aug 25 21:11	16° m 58'33	0.66994 AU	mm. Latin dist.	16500 Aug 10 17:36	30°RΩ	0.00202 AC
morning rise	16499 Aug 29 23:11	12° m) 27'51	0.00771710	morning rise	16500 Aug 13 22:47	26°Ω26'30	
desc. node	16499 Sep 04 03:13	9° m 56'04		direct	16500 Aug 19 13:00	24°Ω00'17	
direct	16499 Sep 05 00:17	9° m 53'02		desc. node	16500 Aug 22 00:30	24° Ω 24'52	
morning max el	16499 Sep 17 14:45	17° m/23'09	25°55'35		16500 Aug 30 03:47	0° m)	
5 5	16499 Sep 28 04:36	0∘ <u>⊽</u>		morning max el	16500 Aug 31 01:53	0° m 54'36	24°32'08
	16499 Oct 17 18:47	0°M₊		C	16500 Sep 22 02:44	0∘ <u>⊽</u>	
morning set	16499 Oct 23 13:08	10°M14'50		morning set	16500 Oct 05 15:16	22° ≏ 03'04	
max. Earth dist.	16499 Oct 27 05:22	17°M09'12	1.35382 AU	max. Earth dist.	16500 Oct 09 04:55	28° ჲ 22'52	1.37667 AU
asc. node	16499 Oct 29 15:22	21°M51'12			16500 Oct 10 02:19	0° M	
superior conj	16499 Nov 01 23:42	28°M33'25	0°29'56	superior conj	16500 Oct 16 07:38	11° M 41'48	-0°01'43
minimum elong	16499 Nov 01 22:04	28° ML 25° 07	0°30'07	minimum elong	16500 Oct 16 07:43	11°ML42'14	0°01'19
	16499 Nov 02 16:41	0° ∡ ¹		behind sun begin	16500 Oct 16 01:00	11° M 09'45	
evening rise	16499 Nov 09 16:07	14° ∡ °27'51		behind sun end	16500 Oct 16 14:26	12°M14'47	
	16499 Nov 17 14:05	5°0		asc. node	16500 Oct 16 12:11	12°M03'53	
evening max el	16499 Nov 28 01:17	14° る 50'45	20°27'30	evening rise	16500 Oct 24 19:24	28°M32'26	
desc. node	16499 Dec 01 01:06	17° る 25'26			16500 Oct 25 12:57	0° ∡ ¹	
retrograde	16499 Dec 09 00:58	20° る 18'26		evening max el	16500 Nov 10 13:30	26° ₹ 05'22	19°18'45
evening set	16499 Dec 11 09:15	20° る 04'39			16500 Nov 16 01:36	0°ಕ	
inferior conj	16499 Dec 20 04:05	16° る 10'27	-5°19'10	desc. node	16500 Nov 17 22:09	0° る 34'38	
minimum elong	16499 Dec 19 18:55	16° る 23'52		retrograde	16500 Nov 19 22:16	0° る 47'10	
min. Earth dist.	16499 Dec 21 14:33	15° る 19'59	0.54634 AU	evening set	16500 Nov 21 20:17	0° る 36'13	
morning rise	16499 Dec 28 04:10	12° る 11'10			16500 Nov 23 23:36	30°Ŗ ⋌ ¹	
direct	16500 Jan 01 18:43	11° る 25'27		inferior conj	16500 Nov 30 09:01	26° ∡ ¹27'16	
morning max el	16500 Jan 15 06:02	18° る 02'50	23°44'49	minimum elong	16500 Nov 29 23:52	26° ⋌ ¹42'23	3°47'42
	16500 Jan 24 21:45	0° ≈		min. Earth dist.	16500 Dec 02 23:40	24° ₹ 43'58	0.55769 AU
asc. node	16500 Jan 25 14:30	1°≈04'10		morning rise	16500 Dec 08 01:10	21° \$\bar{7} 58'36	
morning set	16500 Feb 08 06:23	26° ≈ 48'12		direct	16500 Dec 13 14:16	20° 🗷 48'21	25021120
	16500 Feb 09 17:57	0° ℋ		morning max el	16500 Dec 27 14:52	27°₹54'53 0°る	25°31'29
superior conj	16500 Feb 15 02:24	11° ¥ 40′12	1027140	asc. node	16500 Dec 29 16:22 16501 Jan 12 11:42	0°る 19° る 22'17	
minimum elong	16500 Feb 15 04:13	11° X 50'05		asc. Houe	16501 Jan 18 05:32	19 6 22 17 0° ≈	
max. Earth dist.	16500 Feb 17 21:43	17° X 41'52	1.32786 AU	morning set	16501 Jan 23 18:00	0 ∞ 11°≈26'10	
evening rise	16500 Feb 22 19:25	27°) 49'41	1.32780 AU	morning set	10301 Jan 23 18.00	11 2010	
evening rise	16500 Feb 23 21:40	0° Υ		superior conj	16501 Jan 30 11:24	26° ≈ 15'55	1°36'02
desc. node	16500 Feb 27 01:24	6° Υ ′04'36		minimum elong	16501 Jan 30 12:17	26°≈20'52	1°36'23
dese. node	16500 Mar 13 07:23	0°8		max. Earth dist.	16501 Feb 01 00:14	29° ≈ 39'25	1.31663 AU
evening max el	16500 Mar 28 22:19	19° 8 28'17	27°27'53		16501 Feb 01 03:59	0° ∀	
retrograde	16500 Apr 11 15:47	27° 8 01'45		evening rise	16501 Feb 06 15:58	11°) 47′03	
evening set	16500 Apr 18 09:21	24° 8 34'19		desc. node	16501 Feb 13 22:08	26° ∺ 01'00	
min. Earth dist.	16500 Apr 22 04:32	21° 8 09'45	0.64276 AU		16501 Feb 16 02:59	0° Y	
asc. node	16500 Apr 23 12:02	19° 8 46'58			16501 Mar 09 01:36	0°8	
inferior conj	16500 Apr 24 19:52	18° 8 21'40	0°24'44	evening max el	16501 Mar 11 08:44	2° 8 19'15	27°35'46
minimum elong	16500 Apr 24 19:10	18° 8 23'32	0°24'02	retrograde	16501 Mar 25 08:14	9° 8 48'27	
morning rise	16500 May 01 07:12	13° 8 00'23		evening set	16501 Apr 01 03:23	7° 8 33'56	
direct	16500 May 03 21:10	12° 8 26'27		min. Earth dist.	16501 Apr 04 21:36	4° 8 34'25	0.62145 AU
morning max el	16500 May 10 05:10	15° 8 41'01	17°50'04	inferior conj	16501 Apr 07 22:36	1° 8 41'56	-0°46'51
	16500 May 20 13:12	Π °0		minimum elong	16501 Apr 08 00:13	1° 8 38'07	0°46'29
desc. node	16500 May 26 02:09	9° Ⅱ 12'32			16501 Apr 09 18:48	30° Ŗ ♈	
morning set	16500 May 27 07:09	11° Ⅱ 14′20		asc. node	16501 Apr 10 09:16	29° Y 28'47	
	16500 Jun 07 15:23	0ಂತಾ		morning rise	16501 Apr 15 00:10	26° Y 37'25	
				direct	16501 Apr 17 06:22	26° Y 14'17	
superior conj	16500 Jun 09 16:52	3°9519'25		morning max el	16501 Apr 23 22:37	29° Y 36'31	17°47'20
minimum elong	16500 Jun 09 08:23	2°545'20	1°40'54		16501 Apr 24 08:03	0°8	
max. Earth dist.	16500 Jun 14 14:57	11°508'49	1.45342 AU	morning set	16501 May 09 20:23	24° 8 03'25	
evening rise	16500 Jun 25 10:52	27° © 56'19		desc. node	16501 May 12 23:02	29° 8 31'51	
	16500 Jun 26 19:17	0°N	0.6		16501 May 13 05:27	Π $^{\circ}$ 0	
greatest brilliancy	16500 Jul 10 02:47	19° Ω 52′06	-0.6m				

superior conj	16501 May 21 11:43	14° ∏ 11'09	-1°05'52	max. Earth dist.	16502 May 10 19:41	9°∏06'07	1.42175 AU
minimum elong	16501 May 21 05:42	13° ∏ 45'56		evening rise	16502 May 16 03:47	17° Ⅱ 48'45	1.121,0110
max. Earth dist.	16501 May 28 07:22	25° ∏ 23'21	1.44025 AU		16502 May 23 23:41	0.ಪ	
	16501 May 31 04:39	0°ತಾ			16502 Jun 14 18:40	0°N	
evening rise	16501 Jun 04 23:45	7° © 30'30		evening max el	16502 Jun 18 08:36	3° Ω 52′22	22°30'31
C	16501 Jun 20 01:16	$0^{\circ}\Omega$		asc. node	16502 Jun 24 04:58	8° Ω 29'49	
evening max el	16501 Jul 05 15:09	19° Ω 57'29	21°12'36	retrograde	16502 Jun 28 04:47	9° Ω 37'44	
asc. node	16501 Jul 07 08:04	21° Ω 33'16		evening set	16502 Jul 03 02:13	7° Ω 34'00	
retrograde	16501 Jul 14 07:27	24° Ω 58′20		inferior conj	16502 Jul 08 08:41	1° Ω 13′24	3°04'12
evening set	16501 Jul 18 17:18	23° Ω 11′01		minimum elong	16502 Jul 08 07:54	1° Ω 16′07	3°03'35
inferior conj	16501 Jul 23 22:42	16° Ω 59'27	3°07'58	min. Earth dist.	16502 Jul 08 04:22	1° Ω 28′25	0.69186 AU
minimum elong	16501 Jul 23 22:52	16° Ω 58'54	3°07'29		16502 Jul 09 05:51	30° ₹ 5	
min. Earth dist.	16501 Jul 24 07:34	16° Ω 28'36	0.68939 AU	morning rise	16502 Jul 13 13:26	25° © 00'31	
morning rise	16501 Jul 29 04:10	10° Ω 39'10		direct	16502 Jul 18 03:41	23° © 06'05	
direct	16501 Aug 03 06:33	8° Ω 27'00		desc. node	16502 Jul 26 19:02	27° 9 58'27	
desc. node	16501 Aug 08 21:47	10° Ω 33'24		morning max el	16502 Jul 27 04:01	28° © 20'36	21°36'55
morning max el	16501 Aug 13 13:23	14° Ω 33'27	23°03'05		16502 Jul 28 18:03	0 $^{\circ}\Omega$	
	16501 Aug 26 03:06	0° m/y			16502 Aug 19 17:26	0° m/y	
	16501 Sep 15 00:54	0∘ ʊ		morning set	16502 Aug 28 00:41	12° m/49'10	
morning set	16501 Sep 16 19:49	2° Ω 55'59	1 40000 477	max. Earth dist.	16502 Sep 03 08:27	23° m 00'33	1.42364 AU
max. Earth dist.	16501 Sep 21 03:58	10° ≏ 14'02	1.40090 AU		16502 Sep 07 13:07	0∘ ⊽	
aumariar aani	16501 Sep 29 00:39	249 0 00147	0027122	aumariar aani	16502 Con 10 22:22	50 0 47!10	1014125
superior conj	16501 Sep 29 00:39 16501 Sep 29 03:32	24° £ 09'47 24° £ 23'00		superior conj minimum elong	16502 Sep 10 22:22	5° Ω 47'19 6° Ω 14'03	1°13'43
minimum elong	16501 Sep 29 03.32 16501 Oct 02 04:14	0°M	0 3049	asc. node	16502 Sep 11 04:32 16502 Sep 20 05:41	0 <u>≈</u> 1403 22° <u>≈</u> 21'06	1 13 43
asc. node	16501 Oct 02 04:14 16501 Oct 03 08:57	2°M15'06		evening rise	16502 Sep 20 03:41 16502 Sep 21 23:23	25° £ 30'57	
evening rise	16501 Oct 08 15:05	12°M16'38		evening rise	16502 Sep 24 10:31	0°M	
evening rise	16501 Oct 18 10:12	0° √		evening max el	16502 Oct 08 00:13	20°M 53'21	18°07'07
evening max el	16501 Oct 24 14:32	8° ₹ 09'19	18°32'24	retrograde	16502 Oct 15 00:36	24°M29'20	10 07 07
retrograde	16501 Nov 01 13:59	12°×12'03	10 322.	evening set	16502 Oct 17 05:25	24°ML08'29	
evening set	16501 Nov 03 12:54	11° × 758'15		desc. node	16502 Oct 22 16:28	20°M47'26	
desc. node	16501 Nov 04 19:16	11° ∡ ³35'25		inferior conj	16502 Oct 24 09:48	19° M 17'11	-0°33'02
inferior conj	16501 Nov 11 10:40	7° ∡ ¹28'29	-2°08'25	minimum elong	16502 Oct 24 08:39	19° ™ 19'45	0°32'09
minimum elong	16501 Nov 11 05:34	7° ∡ ³38'19	2°05'50	min. Earth dist.	16502 Oct 27 14:53	16°M25'30	0.59789 AU
min. Earth dist.	16501 Nov 14 15:00	5° ₹ 02'21	0.57587 AU	morning rise	16502 Oct 31 08:37	13°M38'30	
morning rise	16501 Nov 18 18:54	2° ∡ °23′27		direct	16502 Nov 06 22:48	11°M36'22	
direct	16501 Nov 25 00:07	0° ∡ ¹46′19		morning max el	16502 Nov 21 04:59	19°M21'55	27°47'26
morning max el	16501 Dec 09 05:43	8° ∡ 14'59	26°56'55		16502 Nov 30 06:34	0° ∡ ¹	
	16501 Dec 25 14:44	5°0		asc. node	16502 Dec 17 05:56	27° х 43′58	
asc. node	16501 Dec 30 08:50	8° る 19'13			16502 Dec 18 10:01	5°0	
morning set	16502 Jan 08 03:39	25° る 54'43		morning set	16502 Dec 23 09:25	10° පි 08'14	
	16502 Jan 10 00:50	0° ≈		max. Earth dist.	16502 Dec 29 14:31	23° る 42'33	1.31008 AU
	16500 X 14 00 00	100 54120	1020110		16500 D 20 00 45	250720102	100.411.6
superior conj	16502 Jan 14 22:30	10°≈54'39		superior conj	16502 Dec 30 09:45	25° ろ 30'03	1°34'16
minimum elong	16502 Jan 14 22:20	10°≈53'45		minimum elong	16502 Dec 30 08:35	25° る 23'30	1°34'47
max. Earth dist.	16502 Jan 15 07:04 16502 Jan 21 19:06	11°≈42'37	1.31063 AU		16503 Jan 01 09:58	0° ≈ 10° ≈ 21'10	
evening rise	16502 Jan 21 19:06 16502 Jan 23 16:54	25°≈59'40 0°) €		evening rise	16503 Jan 06 02:37 16503 Jan 15 23:49	10°≈21110 0° ∺	
desc. node	16502 Jan 31 18:52	15°) 34'57		desc. node	16503 Jan 18 15:39	4°) 37'06	
dese. Hode	16502 Feb 09 16:49	0° Υ		evening max el	16503 Feb 03 12:07	25°) 40'56	26°08'30
evening max el	16502 Feb 21 14:16	14° Υ 26'44	27°09'36	evening max er	16503 Feb 08 22:41	0° Υ	20 00 30
retrograde	16502 Mar 07 15:25	21° Υ 45'26	2, 0, 50	retrograde	16503 Feb 17 11:23	2° Y '46'37	
evening set	16502 Mar 14 06:24	19° Y 50'59		evening set	16503 Feb 23 14:57	1° Y 17'18	
min. Earth dist.	16502 Mar 18 04:34	17° Y ′08′05	0.59884 AU	C	16503 Feb 25 23:50	30° Ŗ ₩	
inferior conj	16502 Mar 21 10:02	14° Y ′28′06		min. Earth dist.	16503 Feb 28 01:16		0.57701 AU
minimum elong	16502 Mar 21 15:02	14° Ƴ 17'45	2°09'42	inferior conj	16503 Mar 03 02:22	26° ¥ 28'51	-3°43'27
asc. node	16502 Mar 28 06:31	9° Y 59'01		minimum elong	16503 Mar 03 10:51	26°) 13′42	
morning rise	16502 Mar 29 03:13	9° Ƴ 42'57		morning rise	16503 Mar 11 09:59	22° ₭ 05'20	
direct	16502 Mar 31 03:47	9° Y 26'59		direct	16503 Mar 13 08:57	21°) 52′51	
morning max el	16502 Apr 07 13:10	13° Y ′08'07	18°03'11	asc. node	16503 Mar 15 03:49	22° ∺ 03'42	
	16502 Apr 18 22:29	0° 8		morning max el	16503 Mar 21 20:52	26° ∺ 03'51	18°39'20
morning set	16502 Apr 23 03:03	7° 8 40'16			16503 Mar 25 06:30	0° Y	
desc. node	16502 Apr 29 19:53	19° 8 59'21		morning set	16503 Apr 06 21:55	21° Y '48'55	
					16503 Apr 11 03:24	0°8	
superior conj	16502 May 03 05:44	26° 8 05'31		_			
minimum elong	16502 May 03 03:23	25° 8 55'07	0°28'08	superior conj	16503 Apr 15 19:45	8° 8 53'18	
	16502 May 05 11:15	Π °0		minimum elong	16503 Apr 15 20:14	8° 8 55'33	0°06'57

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superior conj	16505 Mar 12 18:40	6° Ƴ 21'55	1°02'11	morning set	16506 Feb 17 20:33	5° ¥ 41'16	
minimum elong	16505 Mar 12 21:11	6° Ƴ 34'51	1°01'47	5 5 5		. , ,	
max. Earth dist.	16505 Mar 17 18:31	16° Y 23'33	1.35499 AU	superior conj	16506 Feb 24 20:04	20°) 41′01	1°20'14
desc. node	16505 Mar 20 10:11	21° Υ 29'45		minimum elong	16506 Feb 24 22:17	20°) 52′53	1°20'09
evening rise	16505 Mar 21 17:25	23° Y 56'19		max. Earth dist.	16506 Feb 28 09:52	28°) 12'07	1.33657 AU
7	16505 Mar 25 01:15	0°8			16506 Mar 01 06:50	0°Υ	
	16505 Apr 13 02:12	0°II		evening rise	16506 Mar 04 22:26	7° Υ 18'07	
evening max el	16505 Apr 26 01:54	15° Ⅱ 32'43	26°19'20	desc. node	16506 Mar 07 06:53	11° Υ 49'16	
retrograde	16505 May 08 23:56	22° I 55'36			16506 Mar 17 15:55	0°8	
asc. node	16505 May 14 20:04	20° I I43'36		evening max el	16506 Apr 08 15:40	29° 8 10'00	27°09'51
evening set	16505 May 15 06:22	20° I I23'08		evening man er	16506 Apr 09 12:42	0°II	27 05 01
min. Earth dist.	16505 May 19 08:19	16° I 107'53	0.66997 AU	retrograde	16506 Apr 22 03:44	6° Ⅱ 42'00	
inferior conj	16505 May 21 03:57	13° I I54'03	1°48'39	evening set	16506 Apr 28 18:04	4° I 11'04	
minimum elong	16505 May 21 01:48	14° I 100'39	1°47'25	asc. node	16506 May 01 17:14	1° Ⅱ 27'59	
morning rise	16505 May 26 22:09	8° I 10'58	1 4/23	min. Earth dist.	16506 May 02 15:17	0° П 28'55	0.65377 AU
direct	16505 May 30 02:41	7° I 13'35		mm. Larm dist.	16506 May 03 01:45	30°R 8	0.03377710
morning max el	16505 Jun 05 14:45	10° Ⅱ 40'42	18°29'49	inferior conj	16506 May 04 23:39	27° 8 50'13	0°59'24
desc. node	16505 Jun 16 10:30	24° I I59'41	10 25 15	minimum elong	16506 May 04 22:09	27° 8 54'28	0°58'22
dese. Hode	16505 Jun 19 16:33	0°95		morning rise	16506 May 11 03:54	22° 8 20'04	0 30 22
morning set	16505 Jun 26 11:47	10°939'53		direct	16506 May 13 22:56	21° 8 38'20	
morning set	16505 Jul 08 20:01	0°Ω		morning max el	16506 May 20 06:00	24° 8 53'59	17°59'32
	10303 341 00 20.01	0 80		morning max cr	16506 May 24 13:51	0°Ⅱ	17 37 32
superior conj	16505 Jul 12 07:48	5° Ω 26'27	-2°13'25	desc. node	16506 Jun 03 07:30	14°∏56'51	
minimum elong	16505 Jul 12 05:22	5° Ω 17'01		morning set	16506 Jun 07 10:20	21° II 40'33	
max. Earth dist.	16505 Jul 12 07:37	5° Ω 25'44	1.46017 AU	morning set	16506 Jun 12 13:00	0°95	
evening rise	16505 Jul 28 03:32	0° m) 12'37	1.40017 AC		10300 Juli 12 13.00	0 3	
evening rise	16505 Jul 28 00:20	0°M)		superior conj	16506 Jun 21 20:27	14° © 52'51	-1°57'25
greatest brilliancy	16505 Aug 05 12:08	13° m) 20'28	-0.8m	minimum elong	16506 Jun 21 12:26	14°93231	
asc. node	16505 Aug 10 19:54	21° M) 24'52	-0.6111	max. Earth dist.	16506 Jun 25 04:04	20°905'33	1.45807 AU
asc. Houc	16505 Aug 17 07:51	0° ⊡		max. Earth dist.	16506 Jul 01 12:58	20 3 05 55	1.43607 AU
evening max el	16505 Aug 17 07:31 16505 Aug 18 17:47	0 == 1° £ 29'28	18°43'59	evening rise	16506 Jul 07 22:53	9° Ω 52'51	
retrograde	16505 Aug 25 08:18	5° Ω 04'13	10 43 39	evening rise	16506 Jul 21 05:59	0° m)	
evening set	16505 Aug 28 15:05	4° £ 02'34		greatest brilliancy	16506 Jul 21 06:25	0° Mp 01'36	-0.7m
evening set	16505 Sep 01 21:40	4 — 02 34 30°R m)		asc. node	16506 Jul 28 16:39	10° m) 21'33	-0.7111
inferior conj	16505 Sep 03 05:53	28° Mp 21'30	2°25'03	evening max el	16506 Aug 02 01:44	15° m) 23'03	19°30'31
minimum elong	16505 Sep 03 08:04	28° Mp 14'41	2°24'27	retrograde	16506 Aug 09 06:03	19° m) 22'48	17 30 31
min. Earth dist.	16505 Sep 05 02:03	26° Mp 04'17	0.66103 AU	evening set	16506 Aug 12 22:57	18° m) 03'24	
morning rise	16505 Sep 09 00:00	21° m/55'28		inferior conj	16506 Aug 18 07:48	12° Mp 09'27	2°51'34
desc. node	16505 Sep 12 08:21	19° m 51'26		minimum elong	16506 Aug 18 09:23	12° mp 04'13	
direct	16505 Sep 15 06:40	19° mp 18'21		min. Earth dist.	16506 Aug 19 14:00		0.67567 AU
morning max el	16505 Sep 28 08:53	27° m 02'51	26°37'12	morning rise	16506 Aug 23 19:16	5° m 42'44	
S	16505 Oct 01 03:26	0∘ <u>⊽</u>		direct	16506 Aug 29 16:03	3° m) 10'40	
	16505 Oct 22 13:46	0° M .		desc. node	16506 Aug 30 05:39	3° m) 11'56	
morning set	16505 Nov 03 04:28	20°M27'10		morning max el	16506 Sep 10 20:03	10° m) 26'45	25°21'21
asc. node	16505 Nov 06 20:50	27°MJ35'04		S	16506 Sep 26 09:53	0 ° $\overline{\mathbf{v}}$	
max. Earth dist.	16505 Nov 07 03:15	28°ML06'53	1.34221 AU		16506 Oct 15 04:37	0° M .	
	16505 Nov 08 01:55	0° ⊼		morning set	16506 Oct 16 17:08	2°M42'43	
				max. Earth dist.	16506 Oct 20 06:04	9°M12'02	1.36318 AU
superior conj	16505 Nov 12 00:52	8° ∡ ¹05'54	0°45'38	asc. node	16506 Oct 24 17:39	17° M 47'06	
minimum elong	16505 Nov 11 22:43	7° ∡ ¹54'43	0°45'48				
evening rise	16505 Nov 19 09:03	23° ∡ ³36′17		superior conj	16506 Oct 26 15:34	21°MJ33'52	0°17'10
•	16505 Nov 22 11:04	0°రె		minimum elong	16506 Oct 26 14:31	21°M28'40	0°17'26
evening max el	16505 Dec 09 01:43	26° පි 06'40	21°16'57		16506 Oct 30 19:41	0° ∡ ¹	
desc. node	16505 Dec 09 06:23	26° ප 18'04		evening rise	16506 Nov 03 15:20	7° ҂ ¹49'26	
	16505 Dec 14 00:54	0° ≈		-	16506 Nov 15 17:17	0°రె	
retrograde	16505 Dec 20 22:45	1°≈58'53		evening max el	16506 Nov 21 05:31	6° そ 52'38	19°55'34
evening set	16505 Dec 23 19:31	1° ≈ 39'52		desc. node	16506 Nov 26 03:25	10° ප 37'21	
	16505 Dec 28 10:49	30°Ŗ₹		retrograde	16506 Dec 01 12:07	12° る 00'12	
inferior conj	16506 Jan 01 12:15	27° る 50'02	-5°50'43	evening set	16506 Dec 03 14:34	11° る 48'20	
minimum elong	16506 Jan 01 06:27	27° ප 58'11	5°49'28	inferior conj	16506 Dec 12 08:16	7° る 49'02	-4°45'46
min. Earth dist.	16506 Jan 02 01:57	27° ප 30'43	0.54378 AU	minimum elong	16506 Dec 11 22:16	8° ප 04'18	4°42'25
morning rise	16506 Jan 09 17:41	23° る 59'40		min. Earth dist.	16506 Dec 14 08:22	6° ප 35'38	0.55018 AU
direct	16506 Jan 13 17:22	23° පි 25'15		morning rise	16506 Dec 20 04:51	3°₹39′21	
morning max el	16506 Jan 26 15:24	29° ප් 43'01	22°41'17	direct	16506 Dec 25 05:58	2°₹43′38	
-	16506 Jan 26 22:27	0° ≈		morning max el	16507 Jan 07 23:47	9° ට 33'42	24°31'31
asc. node	16506 Feb 02 19:42	8° ≈ 15'43		asc. node	16507 Jan 20 16:56	26° ට 06'22	
	16506 Feb 15 03:20	0° ∀			16507 Jan 23 00:16	0° ≈	

_						_	
morning set	16507 Feb 02 08:33	20° ≈ 23'13		direct	16507 Dec 06 07:01	12° ∡ 18′01	
	16507 Feb 06 18:06	0° ∀		morning max el	16507 Dec 20 10:37	19° ∡ ³34′08	26°11'33
					16507 Dec 29 07:09	0°ಕ	
superior conj	16507 Feb 09 02:57	5° 升 12'46	1°32'01	asc. node	16508 Jan 07 14:06	14° る 42'20	
minimum elong	16507 Feb 09 04:24	5° ∺ 20'45	1°32'15		16508 Jan 15 11:25	0° ≈	
max. Earth dist.	16507 Feb 11 09:01	10°) €07'14	1.32255 AU	morning set	16508 Jan 17 19:35	4° ≈ 57'58	
evening rise	16507 Feb 16 14:08	21°) €04'47					
•	16507 Feb 21 02:57	$0^{\circ}\mathbf{\Upsilon}$		superior conj	16508 Jan 24 13:04	19° ≈ 50'19	1°37'41
desc. node	16507 Feb 22 03:36	1° Y 56'01		minimum elong	16508 Jan 24 13:32	19° ≈ 52'50	1°38'07
	16507 Mar 11 14:18	0°8		max. Earth dist.	16508 Jan 25 13:56	22°≈08'40	1.31344 AU
evening max el	16507 Mar 22 04:03	12° 8 22'02	27°35'03	max. Earth dist.	16508 Jan 29 03:45	0° ∀	1.51511110
retrograde	16507 Apr 05 00:22	19° 8 53'30	27 33 03	evening rise	16508 Jan 31 13:45	5° ∺ 09'09	
evening set	16507 Apr 11 19:16	17° 8 30'53		desc. node	16508 Feb 09 00:20	21°) 43'57	
•		17 8 30 33	0.62407.411	desc. node		21 γ (43 3 / 0° γ	
min. Earth dist.	16507 Apr 15 13:46	_	0.63407 AU		16508 Feb 13 18:20	0° γ 24° Υ 55'39	27020150
inferior conj	16507 Apr 18 09:33	11° 8 26'13		evening max el	16508 Mar 03 12:38		27°28'50
minimum elong	16507 Apr 18 09:40	11° 8 25'53	0°04'10		16508 Mar 10 00:10	0°8	
transit middle	16507 Apr 18 09:40	11° 8 25'53	0°04'10	retrograde	16508 Mar 17 12:53	2° 8 20'40	
transit begin	16507 Apr 18 06:37	11° 8 33'41		evening set	16508 Mar 24 07:20	0° 8 13'38	
transit end	16507 Apr 18 12:44	11° 8 18'06			16508 Mar 24 15:58	30° ŖƳ	
asc. node	16507 Apr 18 14:26	11° 8 13'47		min. Earth dist.	16508 Mar 28 02:23	27° Y 22'43	0.61196 AU
morning rise	16507 Apr 25 02:38	6° 8 11'29		inferior conj	16508 Mar 31 06:15	24° Y 33'21	-1°21'22
direct	16507 Apr 27 13:14	5° 8 42'25		minimum elong	16508 Mar 31 09:11	24° Y ′26'46	1°20'23
morning max el	16507 May 03 23:31	8° 8 58'36	17°46'38	asc. node	16508 Apr 04 11:41	21° Y 08'40	
	16507 May 18 04:05	$\Pi^{\circ}0$		morning rise	16508 Apr 07 14:25	19° Ƴ 36'59	
morning set	16507 May 20 10:55	3° ∏ 54'47		direct	16508 Apr 09 18:00	19° Ƴ 17'17	
desc. node	16507 May 21 04:25	5° Ⅱ 09'46		morning max el	16508 Apr 16 16:14	22° Y ′45'43	17°51'44
dose. node	10007 11143 21 0 1.20	2 207 .0		morning man er	16508 Apr 22 08:42	0°8	1, 01
superior conj	16507 Jun 02 02:07	25° I 108'21	-1°26'53	morning set	16508 May 02 08:17	17° 8 06'41	
minimum elong	16507 Jun 01 18:20	24° I I36'32		desc. node	16508 May 07 01:19	25° 8 33'31	
minimum ciong		0°95	1 20 33	desc. Hode		0°Ⅱ	
E 41 E 4	16507 Jun 05 02:06		1 440CC ATT		16508 May 09 13:36	υщ	
max. Earth dist.	16507 Jun 07 23:10	4°536'02	1.44866 AU		16500 16 12 07 07	60 T 20116	0040147
evening rise	16507 Jun 17 09:14	19° © 16'56		superior conj	16508 May 13 07:07	6° Ⅱ 28'16	
	16507 Jun 24 11:10	0 ° Ω		minimum elong	16508 May 13 02:41	6° Ⅱ 09'15	0°49'38
asc. node	16507 Jul 15 13:27	28° Ω 41'55		max. Earth dist.	16508 May 20 14:14	18° Ⅲ 40′01	1.43293 AU
evening max el	16507 Jul 16 03:40	29° Ω 18′03	20°31'46	evening rise	16508 May 27 03:19	29° Ⅱ 07'22	
	16507 Jul 16 21:01	0° m y			16508 May 27 16:47	0 \circ	
retrograde	16507 Jul 24 05:06	3° m 54'12			16508 Jun 17 02:41	$0^{\circ}\Omega$	
evening set	16507 Jul 28 08:40	2° Mp 16'41		evening max el	16508 Jun 27 23:44	13° Ω 13′00	21°44'50
	16507 Jul 30 16:05	30° R Ω		asc. node	16508 Jul 01 10:19	16° Ω 14'03	
inferior conj	16507 Aug 02 14:33	26° Ω 11'01	3°05'17	retrograde	16508 Jul 07 03:39	18° Ω 33'03	
minimum elong	16507 Aug 02 15:15	26° Ω 08'35	3°04'50	evening set	16508 Jul 11 18:25	16° Ω 38'20	
min. Earth dist.	16507 Aug 03 07:00	25° Ω 14′27	0.68577 AU	inferior conj	16508 Jul 16 23:57	10° Ω 22'27	3°07'38
morning rise	16507 Aug 07 21:33	19° Ω 47'41		minimum elong	16508 Jul 16 23:43	10° Ω 23'18	3°07'07
direct	16507 Aug 13 06:48	17° Ω 27'06		min. Earth dist.	16508 Jul 17 03:07	10°Ω11'25	0.69102 AU
desc. node	16507 Aug 17 02:57	18° Ω 25'58		morning rise	16508 Jul 22 04:50	4° Ω 05'07	0.07102710
morning max el	16507 Aug 24 07:06	24°Ω01'28	23054127	direct	16508 Jul 27 01:55	2°Ω00'27	
morning max er	-		23 3421	desc. node		5° Ω 10'19	
	16507 Aug 29 15:13	0ം മ 0ംമ്			16508 Aug 03 00:12	7° Ω 44'59	22925141
	16507 Sep 19 19:17			morning max el	16508 Aug 05 19:48		22 23 41
morning set	16507 Sep 28 10:26	14° Ω 07'51	1.20.600 177		16508 Aug 23 03:41	0° m)	
max. Earth dist.	16507 Oct 02 05:02	20° Ω 40'24	1.38698 AU	morning set	16508 Sep 08 04:59	24° m/35'57	
	16507 Oct 07 08:48	0°M₊			16508 Sep 11 12:07	0∘ ত	
				max. Earth dist.	16508 Sep 13 06:06	2° ♀ 55'12	1.41092 AU
superior conj	16507 Oct 09 17:37	4°M25'56	-0°16'31				
minimum elong	16507 Oct 09 18:46	4° ጤ 31'24	0°16'00	superior conj	16508 Sep 21 02:56	16° ≏ 33'33	-0°53'20
behind sun begin	16507 Oct 09 17:48	4°M26'46		minimum elong	16508 Sep 21 07:14	16° ≏ 52'46	0°52'32
behind sun end	16507 Oct 09 19:45	4°M36'02		asc. node	16508 Sep 27 11:11	28° ഫ 09'03	
asc. node	16507 Oct 11 14:25	7° M 59'24			16508 Sep 28 10:58	0° M	
evening rise	16507 Oct 18 15:46	21°M46'21		evening rise	16508 Oct 01 07:10	5° ™ 19'35	
Ç	16507 Oct 22 21:42	0° ∡ ¹		Č	16508 Oct 16 09:33	0° ∡ ¹	
evening max el	16507 Nov 03 23:30	18° ∡ *28'14	18°56'20	evening max el	16508 Oct 17 04:40	0° х 50'06	18°19'08
retrograde	16507 Nov 12 17:02	22° × 52'33		retrograde	16508 Oct 24 17:15	4°×7'40'13	
desc. node	16507 Nov 13 00:31	22° x 52'13		evening set	16508 Oct 26 18:07	4° × ⁷ 24'01	
evening set	16507 Nov 14 14:30	22° x 40'55		desc. node	16508 Oct 29 21:40	3° ∡ '01'35	
•			2907154				1926112
inferior conj	16507 Nov 22 21:29	18° ₹ 23'03		inferior conj	16508 Nov 03 08:29	29°M44'58	
minimum elong	16507 Nov 22 13:51	18° ∡ 36'30	3°04'29	minimum elong	16508 Nov 03 05:13	29°M51'42	1~24'21
min. Earth dist.	16507 Nov 25 19:30	16° ₹ 20'10	0.56472 AU		16508 Nov 03 01:10	30°₹M.	0.50.101
morning rise	16507 Nov 30 10:24	13° ∡ ³39'14		min. Earth dist.	16508 Nov 06 14:27	27° M 05'21	0.58491 AU

morning rise	16508 Nov 10 12:50	24°M24'24		transit middle	16509 Oct 16 16:02	11°M52'28	0°02'40
direct	16508 Nov 16 22:31	22°MJ36'10		transit begin	16509 Oct 16 12:48	12°ML00'09	
	16508 Nov 30 23:41	0° ∡ ¹		transit end	16509 Oct 16 19:16	11°ML44'46	
morning max el	16508 Dec 01 05:16	0° ∡ 13′28	27°23'13	desc. node	16509 Oct 16 18:53	11° M 45'40	
	16508 Dec 22 08:51	ರ°0		min. Earth dist.	16509 Oct 19 18:47	8°M55'50	0.60769 AU
asc. node	16508 Dec 24 11:14	3°₹51'55		morning rise	16509 Oct 23 10:25	6°ML02'02	
morning set	16509 Jan 01 03:49	19° る 20'40		direct	16509 Oct 30 02:29	3°ML50'14	
	16509 Jan 06 00:34	0° ≈		morning max el	16509 Nov 13 07:44	11°ML42'03	27°56'51
					16509 Nov 27 18:19	0° ≯ ¹	
superior conj	16509 Jan 08 00:29	4° ≈ 28'09	1°37'16	asc. node	16509 Dec 11 08:19	23° ∡ ¹26'11	
minimum elong	16509 Jan 07 23:52	4° ≈ 24'47	1°37'48		16509 Dec 14 15:22	0°రె	
max. Earth dist.	16509 Jan 07 21:22	4°≈10'43	1.30964 AU	morning set	16509 Dec 16 07:21	3° ප 26'45	
evening rise	16509 Jan 14 18:58	19° ≈ 25'40		max. Earth dist.	16509 Dec 22 03:43	16° ප 05'44	1.31145 AU
C	16509 Jan 19 21:59	0°) €					
desc. node	16509 Jan 25 21:06	11°) €05'30		superior conj	16509 Dec 23 11:17	19° ට 01'14	1°30'48
	16509 Feb 07 12:58	0° Y		minimum elong	16509 Dec 23 09:45	18° る 52'38	1°31'16
evening max el	16509 Feb 13 14:56	6° Ƴ 40'17	26°47'40	Č	16509 Dec 28 09:42	0° ≈	
retrograde	16509 Feb 27 15:56	13° Ƴ 54'39		evening rise	16509 Dec 30 03:49	3°≈49'58	
evening set	16509 Mar 06 03:00	12° Υ 10'08		desc. node	16510 Jan 12 17:55	29° ≈ 51'06	
min. Earth dist.	16509 Mar 10 04:50	9° Ƴ 31'08	0.58925 AU		16510 Jan 12 20:07	0°) €	
inferior conj	16509 Mar 13 09:58	7° Υ 01'20		evening max el	16510 Jan 26 09:11	17°) 32'37	25°33'20
minimum elong	16509 Mar 13 16:33	6° Y 48'31	2°47'53	retrograde	16510 Feb 09 07:03	24° H 32'43	20 33 20
morning rise	16509 Mar 21 09:43	2° Υ 25'38	2 17 33	evening set	16510 Feb 15 02:44	23°) 15'16	
asc. node	16509 Mar 22 09:00	2°Υ15'20		min. Earth dist.	16510 Feb 19 22:03	20°\(\)34'23	0.56849 AU
direct	16509 Mar 23 08:49	2° Υ 11'43		inferior conj	16510 Feb 22 17:25	18°) (41'03	
morning max el	16509 Mar 31 04:29	6° Υ 04'15	18°16'01	minimum elong	16510 Feb 23 02:45	18° \(\frac{1}{4} 103	4°18'20
morning max er		0° 8	16 1001	-	16510 Mar 03 05:41	14° H 26'31	4 10 20
marning sat	16509 Apr 15 08:14	0° 8 58'52		morning rise direct		14 X 26 31 14° X 14'29	
morning set	16509 Apr 15 20:43	_			16510 Mar 05 05:43	15° H 06'11	
desc. node	16509 Apr 23 22:08	16° 8 03'16		asc. node	16510 Mar 09 06:18	18°) 41'58	10001121
	16500 4 25 10 14	100 47107	0010124	morning max el	16510 Mar 14 08:04	18°π4138 0°Υ	19°01'21
superior conj	16509 Apr 25 10:14	18° 8 47'27		. ,	16510 Mar 22 15:02		
minimum elong	16509 Apr 25 09:14	18° 8 42'55	0°12′50	morning set	16510 Mar 30 19:35	15° Y 17'53	
behind sun begin	16509 Apr 25 04:45	18° 8 22'40			16510 Apr 07 07:32	0°8	
behind sun end	16509 Apr 25 13:42	19° 8 03'08			16510 1 00 05 00	1012544	0000155
m at the	16509 May 01 18:59	0°II		superior conj	16510 Apr 08 07:29	1° 8 54'46	0°20'57
					16510 1 00 00 16	201 100155	
max. Earth dist.	16509 May 03 00:13	2° I I04'35	1.41263 AU	minimum elong	16510 Apr 08 08:46	2° 8 00'57	0°20'25
evening rise	16509 May 07 15:59	9° Ⅱ 49′00	1.41263 AU	desc. node	16510 Apr 10 18:56	6° 8 35'23	
evening rise	16509 May 07 15:59 16509 May 20 16:41	9°∏49'00 0°©		desc. node max. Earth dist.	16510 Apr 10 18:56 16510 Apr 15 06:50	6° 8 35'23 14° 8 47'32	0°20'25 1.38994 AU
	16509 May 07 15:59 16509 May 20 16:41 16509 Jun 10 15:29	9°∏49'00 0°© 27°©07'51	1.41263 AU 23°05'09	desc. node	16510 Apr 10 18:56 16510 Apr 15 06:50 16510 Apr 19 02:06	6°\dagger 35'23 14°\dagger 47'32 21°\dagger 26'24	
evening rise evening max el	16509 May 07 15:59 16509 May 20 16:41 16509 Jun 10 15:29 16509 Jun 13 19:49	9°∏49'00 0°© 27°©07'51 0°Ω		desc. node max. Earth dist.	16510 Apr 10 18:56 16510 Apr 15 06:50 16510 Apr 19 02:06 16510 Apr 24 05:10	6°\dagger35'23 14°\dagger347'32 21°\dagger326'24 0°\mathbb{II}	
evening rise evening max el asc. node	16509 May 07 15:59 16509 May 20 16:41 16509 Jun 10 15:29 16509 Jun 13 19:49 16509 Jun 18 07:16	9°∏49'00 0°© 27°©07'51 0°Ω 2°Ω41'24		desc. node max. Earth dist. evening rise	16510 Apr 10 18:56 16510 Apr 15 06:50 16510 Apr 19 02:06 16510 Apr 24 05:10 16510 May 14 16:16	6°♥35'23 14°♥47'32 21°♥26'24 0°Ⅲ 0°ℱ	1.38994 AU
evening rise evening max el asc. node retrograde	16509 May 07 15:59 16509 May 20 16:41 16509 Jun 10 15:29 16509 Jun 13 19:49 16509 Jun 18 07:16 16509 Jun 21 00:07	9° \$\Pi49'00\\ 0° \$\Sigma \text{27} \circ \Sigma 07'51\\ 0° \$\Omega \text{22} \\ 2° \$\Omega 41'24\\ 3° \$\Omega 12'32		desc. node max. Earth dist. evening rise evening max el	16510 Apr 10 18:56 16510 Apr 15 06:50 16510 Apr 19 02:06 16510 Apr 24 05:10 16510 May 14 16:16 16510 May 24 05:20	6°\dagger35'23 14°\dagger47'32 21°\dagger26'24 0°\pi 0°\sigma 11°\sigma03'56	1.38994 AU
evening rise evening max el asc. node	16509 May 07 15:59 16509 May 20 16:41 16509 Jun 10 15:29 16509 Jun 13 19:49 16509 Jun 18 07:16 16509 Jun 21 00:07 16509 Jun 26 02:26	9°\$\Pi49'00 0°\$\Sigma 27°\$\O7'51 0°\$\O2'\$\A1'24 3°\$\O12'32 1°\$\O2'34		desc. node max. Earth dist. evening rise evening max el retrograde	16510 Apr 10 18:56 16510 Apr 15 06:50 16510 Apr 19 02:06 16510 Apr 24 05:10 16510 May 14 16:16 16510 May 24 05:20 16510 Jun 04 17:11	6°\dash35'23 14°\dash47'32 21°\dash26'24 0°\pi 0°\sigma 11°\sigma03'56 17°\sigma46'55	1.38994 AU
evening rise evening max el asc. node retrograde evening set	16509 May 07 15:59 16509 May 20 16:41 16509 Jun 10 15:29 16509 Jun 13 19:49 16509 Jun 18 07:16 16509 Jun 21 00:07	9° \$\Pi49'00\\ 0° \$\Sigma \text{27} \circ \Sigma 07'51\\ 0° \$\Omega \text{22} \\ 2° \$\Omega 41'24\\ 3° \$\Omega 12'32		desc. node max. Earth dist. evening rise evening max el retrograde asc. node	16510 Apr 10 18:56 16510 Apr 15 06:50 16510 Apr 19 02:06 16510 Apr 24 05:10 16510 May 14 16:16 16510 May 24 05:20 16510 Jun 04 17:11 16510 Jun 05 04:16	6°\dagger35'23 14°\dagger47'32 21°\dagger26'24 0°\pi 0°\sigma 11°\sigma03'56	1.38994 AU
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evening rise evening max el asc. node retrograde evening set inferior conj minimum elong	16509 May 07 15:59 16509 May 20 16:41 16509 Jun 10 15:29 16509 Jun 13 19:49 16509 Jun 18 07:16 16509 Jun 21 00:07 16509 Jun 26 02:26 16509 Jun 27 04:40 16509 Jul 01 10:00 16509 Jul 01 08:52	9°II49'00 0°S 27°S07'51 0°N 2°N41'24 3°N12'32 1°N02'34 30°RS 24°S38'32 24°S42'28	23°05'09 2°59'27 2°58'45	desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist.	16510 Apr 10 18:56 16510 Apr 15 06:50 16510 Apr 19 02:06 16510 Apr 24 05:10 16510 May 14 16:16 16510 May 24 05:20 16510 Jun 04 17:11 16510 Jun 05 04:16 16510 Jun 10 07:06 16510 Jun 14 19:53	6°\delta35'23 14°\delta47'32 21°\delta26'24 0°\pi 0°\delta 0°\delta 11°\delta03'56 17°\delta46'55 17°\delta46'02 15°\delta24'45 10°\delta12'26	1.38994 AU 24°26'28 0.68684 AU
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evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	16509 May 07 15:59 16509 May 20 16:41 16509 Jun 10 15:29 16509 Jun 13 19:49 16509 Jun 18 07:16 16509 Jun 21 00:07 16509 Jun 27 04:40 16509 Jul 01 10:00 16509 Jul 01 08:52 16509 Jul 01 00:08	9°II49'00 0°S 27°S07'51 0°N 2°N41'24 3°N12'32 1°N02'34 30°RS 24°S38'32 24°S42'28 25°S12'45	23°05'09 2°59'27 2°58'45	desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj	16510 Apr 10 18:56 16510 Apr 15 06:50 16510 Apr 19 02:06 16510 Apr 24 05:10 16510 May 14 16:16 16510 May 24 05:20 16510 Jun 04 17:11 16510 Jun 05 04:16 16510 Jun 10 07:06 16510 Jun 14 19:53 16510 Jun 15 18:46 16510 Jun 15 16:56 16510 Jun 21 02:53	6°\delta35'23 14°\delta47'32 21°\delta26'24 0°\pi 0°\delta 11°\delta33'56 17°\delta46'55 17°\delta46'02 15°\delta24'45 10°\delta12'26 8°\delta55'30 9°\delta01'40 2°\delta55'14	1.38994 AU 24°26′28 0.68684 AU 2°40′48
evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	16509 May 07 15:59 16509 May 20 16:41 16509 Jun 10 15:29 16509 Jun 13 19:49 16509 Jun 18 07:16 16509 Jun 21 00:07 16509 Jun 27 04:40 16509 Jul 01 00:08 16509 Jul 01 00:08 16509 Jul 06 15:12 16509 Jul 11 00:15 16509 Jul 19 12:42	9°II49'00 0°S 27°S07'51 0°N 2°N41'24 3°N12'32 1°N02'34 30°RS 24°S38'32 24°S42'28 25°S12'45 18°S29'02 16°S42'50 21°S36'55	23°05'09 2°59'27 2°58'45 0.69136 AU	desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	16510 Apr 10 18:56 16510 Apr 15 06:50 16510 Apr 19 02:06 16510 Apr 24 05:10 16510 May 14 16:16 16510 May 24 05:20 16510 Jun 04 17:11 16510 Jun 05 04:16 16510 Jun 10 07:06 16510 Jun 14 19:53 16510 Jun 15 18:46 16510 Jun 15 16:56	6°\delta35'23 14°\delta47'32 21°\delta26'24 0°\pi 0°\sigma 11°\sigma3'56 17°\sigma46'55 17°\sigma46'02 15°\sigma24'45 10°\sigma12'26 8°\sigma55'30 9°\sigma01'40 2°\sigma55'14 1°\sigma28'31	1.38994 AU 24°26'28 0.68684 AU 2°40'48 2°39'50
evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	16509 May 07 15:59 16509 May 20 16:41 16509 Jun 10 15:29 16509 Jun 13 19:49 16509 Jun 18 07:16 16509 Jun 21 00:07 16509 Jun 27 04:40 16509 Jul 01 00:08 16509 Jul 01 00:08 16509 Jul 01 00:08 16509 Jul 06 15:12 16509 Jul 11 00:15	9°II49'00 0°S 27°S07'51 0°N 2°N41'24 3°N12'32 1°N02'34 30°RS 24°S38'32 24°S42'28 25°S12'45 18°S29'02 16°S42'50 21°S36'55 23°S01'54	23°05'09 2°59'27 2°58'45 0.69136 AU	desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise	16510 Apr 10 18:56 16510 Apr 15 06:50 16510 Apr 19 02:06 16510 Apr 24 05:10 16510 May 14 16:16 16510 May 24 05:20 16510 Jun 04 17:11 16510 Jun 05 04:16 16510 Jun 10 07:06 16510 Jun 14 19:53 16510 Jun 15 18:46 16510 Jun 15 16:56 16510 Jun 21 02:53	6°\delta35'23 14°\delta47'32 21°\delta26'24 0°\pi 0°\sigma 11°\sigma3'56 17°\sigma46'55 17°\sigma46'02 15°\sigma24'45 10°\sigma12'26 8°\sigma55'30 9°\sigma01'40 2°\sigma55'14 1°\sigma28'31 5°\sigma39'02	1.38994 AU 24°26′28 0.68684 AU 2°40′48
evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	16509 May 07 15:59 16509 May 20 16:41 16509 Jun 10 15:29 16509 Jun 13 19:49 16509 Jun 18 07:16 16509 Jun 21 00:07 16509 Jun 27 04:40 16509 Jul 01 00:08 16509 Jul 01 00:08 16509 Jul 06 15:12 16509 Jul 11 00:15 16509 Jul 19 12:42	9°II49'00 0°S 27°S07'51 0°N 2°N41'24 3°N12'32 1°N02'34 30°RS 24°S38'32 24°S42'28 25°S12'45 18°S29'02 16°S42'50 21°S36'55	23°05'09 2°59'27 2°58'45 0.69136 AU	desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	16510 Apr 10 18:56 16510 Apr 15 06:50 16510 Apr 19 02:06 16510 Apr 24 05:10 16510 May 14 16:16 16510 May 24 05:20 16510 Jun 04 17:11 16510 Jun 05 04:16 16510 Jun 10 07:06 16510 Jun 14 19:53 16510 Jun 15 18:46 16510 Jun 15 16:56 16510 Jun 21 02:53 16510 Jun 25 00:21	6°\delta35'23 14°\delta47'32 21°\delta26'24 0°\pi 0°\text{S} 11°\text{S}03'56 17°\text{S}46'55 17°\text{S}46'02 15°\text{S}24'45 10°\text{S}12'26 8°\text{S}55'30 9°\text{S}01'40 2°\text{S}55'14 1°\text{S}28'31 5°\text{S}39'02 11°\text{S}43'31	1.38994 AU 24°26'28 0.68684 AU 2°40'48 2°39'50
evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	16509 May 07 15:59 16509 May 20 16:41 16509 Jun 10 15:29 16509 Jun 13 19:49 16509 Jun 18 07:16 16509 Jun 21 00:07 16509 Jun 26 02:26 16509 Jun 01 10:00 16509 Jul 01 00:08 16509 Jul 01 00:08 16509 Jul 01 00:15 16509 Jul 11 00:15 16509 Jul 11 00:15 16509 Jul 19 12:42 16509 Jul 20 21:27	9°II49'00 0°S 27°S07'51 0°N 2°N41'24 3°N12'32 1°N02'34 30°RS 24°S38'32 24°S42'28 25°S12'45 18°S29'02 16°S42'50 21°S36'55 23°S01'54	23°05'09 2°59'27 2°58'45 0.69136 AU	desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	16510 Apr 10 18:56 16510 Apr 15 06:50 16510 Apr 19 02:06 16510 Apr 24 05:10 16510 May 14 16:16 16510 May 24 05:20 16510 Jun 04 17:11 16510 Jun 05 04:16 16510 Jun 10 07:06 16510 Jun 14 19:53 16510 Jun 15 18:46 16510 Jun 15 16:56 16510 Jun 21 02:53 16510 Jun 25 00:21 16510 Jul 02 12:09	6°\delta35'23 14°\delta47'32 21°\delta26'24 0°\pi 0°\sigma 11°\sigma3'56 17°\sigma46'55 17°\sigma46'02 15°\sigma24'45 10°\sigma12'26 8°\sigma55'30 9°\sigma01'40 2°\sigma55'14 1°\sigma28'31 5°\sigma39'02	1.38994 AU 24°26'28 0.68684 AU 2°40'48 2°39'50
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evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	16509 May 07 15:59 16509 May 20 16:41 16509 Jun 10 15:29 16509 Jun 13 19:49 16509 Jun 18 07:16 16509 Jun 21 00:07 16509 Jun 27 04:40 16509 Jul 01 10:00 16509 Jul 01 00:08 16509 Jul 01 00:08 16509 Jul 01 00:08 16509 Jul 11 00:15 16509 Jul 11 00:15 16509 Jul 19 12:42 16509 Jul 20 21:27 16509 Jul 26 16:12 16509 Aug 16 08:55 16509 Aug 19 00:33	9°II49'00 0°S 27°S07'51 0°N 2°N41'24 3°N12'32 1°N02'34 30°RS 24°S38'32 24°S42'28 25°S12'45 18°S29'02 16°S42'50 21°S36'55 23°S01'54 0°N 0°M 4°M06'26	23°05'09 2°59'27 2°58'45 0.69136 AU 21°02'44	desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set	16510 Apr 10 18:56 16510 Apr 15 06:50 16510 Apr 19 02:06 16510 Apr 24 05:10 16510 May 14 16:16 16510 May 24 05:20 16510 Jun 04 17:11 16510 Jun 05 04:16 16510 Jun 10 07:06 16510 Jun 14 19:53 16510 Jun 15 18:46 16510 Jun 15 16:56 16510 Jun 21 02:53 16510 Jun 22 02:53 16510 Jul 02 12:09 16510 Jul 07 18:40 16510 Jul 20 15:16 16510 Jul 20 05:51 16510 Jul 29 05:51 16510 Aug 09 02:23	6°\delta35'23 14°\delta47'32 21°\delta26'24 0°\pi 0°\text{sign} 11°\text{sign}03'56 17°\text{sign}46'55 17°\text{sign}46'02 15°\text{sign}22'445 10°\text{sign}12'26 8°\text{sign}55'30 9°\text{sign}12'40 2°\text{sign}55'14 1°\text{sign}28'31 5°\text{sign}39'02 11°\text{sign}43'31 0°\Omega 13°\Omega\03'01 29°\Omega\05'50	1.38994 AU 24°26'28 0.68684 AU 2°40'48 2°39'50 19°51'19
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evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el	16509 May 07 15:59 16509 May 20 16:41 16509 Jun 10 15:29 16509 Jun 13 19:49 16509 Jun 18 07:16 16509 Jun 21 00:07 16509 Jun 26 02:26 16509 Jun 01 10:00 16509 Jul 01 00:08 16509 Jul 01 00:08 16509 Jul 01 00:08 16509 Jul 11 00:15 16509 Jul 11 00:15 16509 Jul 12:42 16509 Jul 19 12:42 16509 Jul 20 21:27 16509 Jul 20 21:27 16509 Jul 26 16:12 16509 Aug 16 08:55 16509 Aug 19 00:33 16509 Aug 26 12:54 16509 Sep 02 15:10 16509 Sep 02 12:28 16509 Sep 03 22:32 16509 Sep 14 09:13 16509 Sep 14 07:55 16509 Sep 21 00:43 16509 Sep 30 16:45	9° \$\Pi49'00\\ 0° \$\Pi\$ 27° \$\Pi07'51\\ 0° \$\Omega\$ 2° \$\Omega 41'24\\ 3° \$\Omega 12'32\\ 1° \$\Omega 23' \$\Pi 38'32\\ 24° \$\Pi 42'28\\ 25° \$\Pi 12'45\\ 18° \$\Pi 29'02\\ 16° \$\Pi 42'50\\ 21° \$\Pi 36'55\\ 23° \$\Pi 01'54\\ 0° \$\Omega\$ 0° \$\Pi \\ 4° \$\Pi 06'26\\ 16° \$\Pi 02'42\\ 27° \$\Pi 46'56\\ 28° \$\Pi 17'47\\ 0° \$\Pi\$ 18° \$\Pi 11'49\\ 0° \$\Pi\$ 13° \$\Pi 48'25\\	23°05'09 2°59'27 2°58'45 0.69136 AU 21°02'44 1.43217 AU -1°29'31 1°28'43	desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	16510 Apr 10 18:56 16510 Apr 15 06:50 16510 Apr 19 02:06 16510 Apr 24 05:10 16510 May 14 16:16 16510 May 24 05:20 16510 Jun 04 17:11 16510 Jun 05 04:16 16510 Jun 10 07:06 16510 Jun 14 19:53 16510 Jun 15 16:56 16510 Jun 21 02:53 16510 Jun 22 00:21 16510 Jun 02 12:09 16510 Jul 02 12:09 16510 Jul 07 18:40 16510 Jul 20 15:16 16510 Jul 20 05:51 16510 Jul 29 05:51 16510 Aug 09 02:23 16510 Aug 09 03:12 16510 Aug 14 11:23 16510 Aug 27 10:17 16510 Aug 27 16:46 16510 Sep 01 04:38 16510 Sep 01 04:38	6° 835'23 14° 847'32 21° 826'24 0° II 0° 9 11° 903'56 17° 946'55 17° 946'02 15° 924'45 10° 912'26 8° 955'30 9° 901'40 2° 955'14 1° 928'31 5° 939'02 11° 943'31 0° Ω 13° Ω03'01 29° Ω56'50 0° ID 8° ID 2'00 8° ID 2'00 8° ID 2'02 8° ID 2'02 8° ID 2'02 8° ID 2'04 8° ID 2'04 8° ID 2'05 0° Ω	1.38994 AU 24°26'28 0.68684 AU 2°40'48 2°39'50 19°51'19 1.44843 AU -1°58'52 1°58'36
evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde	16509 May 07 15:59 16509 May 20 16:41 16509 Jun 10 15:29 16509 Jun 13 19:49 16509 Jun 18 07:16 16509 Jun 21 00:07 16509 Jun 26 02:26 16509 Jun 01 10:00 16509 Jul 01 00:08 16509 Jul 01 00:08 16509 Jul 01 00:08 16509 Jul 11 00:15 16509 Jul 11 00:15 16509 Jul 12:42 16509 Jul 19 12:42 16509 Jul 20 21:27 16509 Jul 20 21:27 16509 Jul 26 16:12 16509 Aug 16 08:55 16509 Aug 19 00:33 16509 Aug 19 00:33 16509 Sep 02 12:54 16509 Sep 02 12:54 16509 Sep 03 22:32 16509 Sep 14 09:13 16509 Sep 14 07:55 16509 Sep 21 00:43 16509 Sep 30 16:45 16509 Cet 07 10:36	9° II 49'00 0° II 49'00 0° II 49'00 0° II 49'00 0° II 49'00 2° II 41'24 3° II 2'32 1° II 2'32 1° II 2'38 24° II 2'45 18° II 1'47 0° II 18° II 1'47 0° II 18° II 1'49 0° III 13° III 48'25 17° III 16'59	23°05'09 2°59'27 2°58'45 0.69136 AU 21°02'44 1.43217 AU -1°29'31 1°28'43	desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el	16510 Apr 10 18:56 16510 Apr 15 06:50 16510 Apr 19 02:06 16510 Apr 24 05:10 16510 May 14 16:16 16510 May 24 05:20 16510 Jun 04 17:11 16510 Jun 05 04:16 16510 Jun 10 07:06 16510 Jun 15 18:46 16510 Jun 15 16:56 16510 Jun 21 02:53 16510 Jun 22 00:21 16510 Jun 23 00:21 16510 Jul 02 12:09 16510 Jul 07 18:40 16510 Jul 20 15:16 16510 Jul 20 15:16 16510 Jul 20 05:51 16510 Aug 09 03:12 16510 Aug 14 03:55 16510 Aug 17 10:17 16510 Aug 27 10:17 16510 Aug 27 10:17 16510 Aug 27 16:46 16510 Sep 01 04:38 16510 Sep 14 07:39 16510 Sep 18 04:08	6°\S35'23 14°\S47'32 21°\S26'24 0°\II 0°\S 11°\S03'56 17°\S46'55 17°\S46'02 15°\S24'45 10°\S12'26 8°\S55'30 9°\S01'40 2°\S55'14 1°\S28'31 5°\S39'02 11°\S43'31 0°\L 13°\L03'01 29°\L05'50 0°\L 8°\L03'27 27°\L02'24 8°\L03'27 27°\L02'24 0°\IL	1.38994 AU 24°26'28 0.68684 AU 2°40'48 2°39'50 19°51'19 1.44843 AU -1°58'52 1°58'36
evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde evening set	16509 May 07 15:59 16509 May 20 16:41 16509 Jun 10 15:29 16509 Jun 13 19:49 16509 Jun 18 07:16 16509 Jun 21 00:07 16509 Jun 26 02:26 16509 Jun 27 04:40 16509 Jul 01 10:00 16509 Jul 01 00:08 16509 Jul 01 00:08 16509 Jul 11 00:15 16509 Jul 11 00:15 16509 Jul 12:42 16509 Jul 19 12:42 16509 Jul 20 21:27 16509 Jul 20 21:27 16509 Jul 26 16:12 16509 Aug 16 08:55 16509 Aug 19 00:33 16509 Aug 26 12:54 16509 Sep 02 22:28 16509 Sep 03 22:32 16509 Sep 14 07:55 16509 Sep 14 07:55 16509 Sep 21 00:43 16509 Sep 30 16:45 16509 Oct 07 10:36 16509 Oct 09 18:34	9° II 49'00 0° II 49'00 0° II 49'00 0° II 49'00 0° II 49'00 2° II 41'24 3° II 2'32 1° II 2'34 30° RI 24° II 38' II 2'45 18° II 2'45 18° II 2'45 18° II 1'49 0° II 13° II 48'25 17° III 16'59 16° II 52'04	23°05'09 2°59'27 2°58'45 0.69136 AU 21°02'44 1.43217 AU -1°29'31 1°28'43	desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde	16510 Apr 10 18:56 16510 Apr 15 06:50 16510 Apr 19 02:06 16510 Apr 24 05:10 16510 May 14 16:16 16510 May 24 05:20 16510 Jun 04 17:11 16510 Jun 05 04:16 16510 Jun 10 07:06 16510 Jun 15 18:46 16510 Jun 15 16:56 16510 Jun 21 02:53 16510 Jun 22 00:21 16510 Jul 02 12:09 16510 Jul 07 18:40 16510 Jul 20 15:16 16510 Jul 20 15:16 16510 Jul 20 03:12 16510 Aug 09 03:12 16510 Aug 14 11:23 16510 Aug 27 10:17 16510 Aug 27 16:46 16510 Sep 01 04:38 16510 Sep 14 07:39 16510 Sep 18 04:08 16510 Sep 18 04:08	6°\&35'23 14°\&47'32 21°\&26'24 0°\II 0°\S 11°\S03'56 17°\S046'55 17°\S046'02 15°\S024'45 10°\S12'26 8°\S55'30 9°\S01'40 2°\S055'14 1°\S028'31 5°\S03'902 11°\S04'3'31 0°\O 13°\O03'01 29°\O56'50 0°\D 8°\D02'00 8°\D02'00 8°\D02'024 8°\D02'020 8°\D02'024 8°\D02'020 0°\L027'24 8°\L027'24 0°\L027'24 0°\L027'24	1.38994 AU 24°26'28 0.68684 AU 2°40'48 2°39'50 19°51'19 1.44843 AU -1°58'52 1°58'36

inferior conj	16510 Sep 29 16:07		1°12'02	evening max el	16511 Aug 28 21:55	10° ≙ 54'03	18°24'36
minimum elong	16510 Sep 29 17:57	24° £ 33'31	1°11'36	retrograde	16511 Sep 04 07:59	14° ≏ 19'57	
min. Earth dist.	16510 Oct 02 09:03	21° ≏ 44'37	0.63033 AU	evening set	16511 Sep 07 09:22	13° ≏ 27'43	
desc. node	16510 Oct 03 16:10	20° £ 27'07		inferior conj	16511 Sep 13 05:00	7° £ 54'26	2°03'11
morning rise	16510 Oct 06 00:23	18° ≏ 27'13		minimum elong	16511 Sep 13 07:18	7° £ 47'34	2°02'33
C	16510 Oct 12 16:29	15° ⊆ 59'06		min. Earth dist.	16511 Sep 15 07:10	5° £ 20'19	0.65078 AU
direct			0.50.5110.1		1		0.03078 AU
morning max el	16510 Oct 26 15:45	23° ≏ 56'46	27°51'31	morning rise	16511 Sep 19 03:51	1° ≏ 31'32	
	16510 Nov 01 02:56	0°M₊		desc. node	16511 Sep 20 13:28	0° ჲ 30'27	
	16510 Nov 21 02:57	0° ∡ ¹			16511 Sep 21 10:25	30° Ŗ ₩	
asc. node	16510 Nov 28 05:19	13° ∡ 17'33		direct	16511 Sep 25 14:53	28° m 55'34	
morning set	16510 Nov 30 03:51	17° ∡ 10′22			16511 Sep 30 03:25	0° <u>م</u>	
max. Earth dist.	16510 Dec 05 05:13	27° × ⁷ 45'18	1.31902 AU	morning max el	16511 Oct 09 02:48	° - 48'33	27°12'11
max. Earm dist.			1.31902 AU	morning max ci			2/ 1211
	16510 Dec 06 06:10	0°ප			16511 Oct 27 00:40	0° M	
					16511 Nov 13 09:20	0° ∡ ¹	
superior conj	16510 Dec 07 19:31	3° る 23'37	1°18'11	morning set	16511 Nov 13 14:41	0° ҂ ¹26′02	
minimum elong	16510 Dec 07 17:19	3° る 11'34	1°18'31	asc. node	16511 Nov 15 02:14	3° ҂ ¹20'36	
evening rise	16510 Dec 14 14:24	18° る 16'57		max. Earth dist.	16511 Nov 17 22:39	9° ∡ 105'49	1.33226 AU
e vennig rise	16510 Dec 20 05:52	0° ≈		man Bartii dibt.	100111101117 22.59	, ,, ,,	1.55220110
					1651131 21 22 01	170 720102	0050110
desc. node	16510 Dec 30 14:47	17° ≈ 47'12		superior conj	16511 Nov 21 23:01	17° ∡ ³30′02	0°59'19
evening max el	16511 Jan 07 20:10	27° ≈ 41′20	23°55'41	minimum elong	16511 Nov 21 20:39	17° ∡ 17′26	0°59'32
	16511 Jan 10 11:37	0° ∀			16511 Nov 27 18:31	0° ප	
retrograde	16511 Jan 21 08:11	4°) 23'01		evening rise	16511 Nov 29 00:53	2°る42'31	
evening set	16511 Jan 26 03:52	3°) 32'42		Č	16511 Dec 13 22:12	0° ≈	
min. Earth dist.	16511 Feb 01 07:43	0°) 32′50	0.55265 AU	desc. node	16511 Dec 17 11:41	4°≈36'37	
iiiii. Eartii tist.			0.33203 AO				22012107
	16511 Feb 02 05:54	30°R≈		evening max el	16511 Dec 20 06:29	7° ≈ 36′02	22°12'06
inferior conj	16511 Feb 03 03:41	29° ≈ 27'31	-5°34'22	retrograde	16512 Jan 01 21:34	13° ≈ 50'34	
minimum elong	16511 Feb 03 11:19	29° ≈ 16′10	5°32'45	evening set	16512 Jan 05 10:52	13° ≈ 22'38	
morning rise	16511 Feb 11 20:25	25° ≈ 31'20		inferior conj	16512 Jan 13 22:04	9° ≈ 31'27	-6°02'28
direct	16511 Feb 14 07:08	25°≈16'14		minimum elong	16512 Jan 13 21:35	9° ≈ 32'09	6°01'56
asc. node	16511 Feb 24 03:37	29° ≈ 41'39		min. Earth dist.	16512 Jan 13 13:11	9° ≈ 43'53	0.54439 AU
use. Houe	16511 Feb 24 11:38	0° \		morning rise	16512 Jan 22 09:13	5°≈44'05	0.5 1 15 / 110
			20000146	•			
morning max el	16511 Feb 24 22:42	0° ∺ 26′19	20°09'46	direct	16512 Jan 25 17:31	5°≈19'10	
morning set	16511 Mar 15 01:16	29° ∺ 52'17		morning max el	16512 Feb 06 22:11	11° ≈ 13'14	21°40'57
	16511 Mar 15 02:46	0° Y		asc. node	16512 Feb 11 00:54	15° ≈ 47'20	
					16512 Feb 20 03:22	0° ∀	
superior conj	16511 Mar 22 18:29	15° Ƴ 37'35	0°48'53	morning set	16512 Feb 27 11:02	14° ₩ 34'15	
minimum elong	16511 Mar 22 20:50	15° Ƴ 49'24	0°48'23	<i>3 3 3 3 3 3 3 3 3 3</i>			
•					16512 M 05 15 20	200 1/45/51	1010127
max. Earth dist.	16511 Mar 28 13:40	26° Y 56′00	1.36721 AU	superior conj	16512 Mar 05 15:30	29° ¥ 45'51	1°10'37
desc. node	16511 Mar 28 15:41	27° Y 05′28		minimum elong	16512 Mar 05 17:58	29°) 58'45	1°10'21
				Č	10312 Widi 03 17.30		
	16511 Mar 30 05:00	9° 8		C	16512 Mar 05 18:13	0° Υ	
evening rise	16511 Mar 30 05:00 16511 Apr 01 07:33	0° と 3° と 51'17		max. Earth dist.			1.34666 AU
evening rise	16511 Apr 01 07:33	3° 8 51'17			16512 Mar 05 18:13 16512 Mar 10 01:00	0°Υ 8°Υ46'29	1.34666 AU
C	16511 Apr 01 07:33 16511 Apr 17 05:01	3° 8 51'17 0°Ⅱ	25°41'44	evening rise	16512 Mar 05 18:13 16512 Mar 10 01:00 16512 Mar 14 04:55	0° Υ 8° Υ 46'29 16° Υ 54'24	1.34666 AU
evening rise evening max el	16511 Apr 01 07:33 16511 Apr 17 05:01 16511 May 06 18:54	3° 8 51'17 0° П 24° П 58'17	25°41'44		16512 Mar 05 18:13 16512 Mar 10 01:00 16512 Mar 14 04:55 16512 Mar 14 12:23	0°Υ 8°Υ46'29 16°Υ54'24 17°Υ29'49	1.34666 AU
evening max el	16511 Apr 01 07:33 16511 Apr 17 05:01 16511 May 06 18:54 16511 May 12 21:55	3°851'17 0°∏ 24°∏58'17 0°©	25°41'44	evening rise	16512 Mar 05 18:13 16512 Mar 10 01:00 16512 Mar 14 04:55 16512 Mar 14 12:23 16512 Mar 21 10:23	0°Υ 8°Υ46'29 16°Υ54'24 17°Υ29'49 0°8	1.34666 AU
evening max el	16511 Apr 01 07:33 16511 Apr 17 05:01 16511 May 06 18:54 16511 May 12 21:55 16511 May 19 05:47	3° 8 51'17 0°Ⅱ 24°Ⅱ58'17 0°ᢒ 2°ᢒ09'24	25°41'44	evening rise desc. node	16512 Mar 05 18:13 16512 Mar 10 01:00 16512 Mar 14 04:55 16512 Mar 14 12:23 16512 Mar 21 10:23 16512 Apr 10 13:35	0°Y 8°Y46'29 16°Y54'24 17°Y29'49 0°℧ 0°Ⅱ	
evening max el	16511 Apr 01 07:33 16511 Apr 17 05:01 16511 May 06 18:54 16511 May 12 21:55	3°♥51'17 0°Ⅲ 24°Ⅲ58'17 0°☞ 2°©09'24 1°©10'46	25°41'44	evening rise	16512 Mar 05 18:13 16512 Mar 10 01:00 16512 Mar 14 04:55 16512 Mar 14 12:23 16512 Mar 21 10:23	0°Y 8°Y46'29 16°Y54'24 17°Y29'49 0°B 0°I 8°II43'43	1.34666 AU 26°43'26
evening max el	16511 Apr 01 07:33 16511 Apr 17 05:01 16511 May 06 18:54 16511 May 12 21:55 16511 May 19 05:47	3° 8 51'17 0°Ⅱ 24°Ⅱ58'17 0°ᢒ 2°ᢒ09'24	25°41'44	evening rise desc. node	16512 Mar 05 18:13 16512 Mar 10 01:00 16512 Mar 14 04:55 16512 Mar 14 12:23 16512 Mar 21 10:23 16512 Apr 10 13:35	0°Y 8°Y46'29 16°Y54'24 17°Y29'49 0°℧ 0°Ⅱ	
evening max el	16511 Apr 01 07:33 16511 Apr 17 05:01 16511 May 06 18:54 16511 May 12 21:55 16511 May 19 05:47 16511 May 23 01:20	3°♥51'17 0°Ⅲ 24°Ⅲ58'17 0°☞ 2°©09'24 1°©10'46	25°41'44	evening rise desc. node evening max el	16512 Mar 05 18:13 16512 Mar 10 01:00 16512 Mar 14 04:55 16512 Mar 14 12:23 16512 Mar 21 10:23 16512 Apr 10 13:35 16512 Apr 18 08:34	0°Y 8°Y46'29 16°Y54'24 17°Y29'49 0°B 0°I 8°II43'43	
evening max el retrograde asc. node evening set	16511 Apr 01 07:33 16511 Apr 17 05:01 16511 May 06 18:54 16511 May 12 21:55 16511 May 19 05:47 16511 May 23 01:20 16511 May 24 20:28 16511 May 25 06:42	3°\S51'17 0°\II 24°\II58'17 0°\Sigma 2°\Sigma 09'24 1°\Sigma 10'46 30°\R\II 29°\II39'08		evening rise desc. node evening max el retrograde evening set	16512 Mar 05 18:13 16512 Mar 10 01:00 16512 Mar 14 04:55 16512 Mar 14 12:23 16512 Mar 21 10:23 16512 Apr 10 13:35 16512 Apr 18 08:34 16512 May 01 13:02 16512 May 07 23:20	0°Y 8°Y46'29 16°Y54'24 17°Y29'49 0°B 0°I 8°II43'43 16°II11'39 13°II38'45	
evening max el retrograde asc. node evening set min. Earth dist.	16511 Apr 01 07:33 16511 Apr 17 05:01 16511 May 06 18:54 16511 May 12 21:55 16511 May 19 05:47 16511 May 23 01:20 16511 May 24 20:28 16511 May 25 06:42 16511 May 29 12:11	3°851'17 0°Ⅲ 24°Ⅲ58'17 0°☞ 2°©09'24 1°©10'46 30°RⅢ 29°Ⅲ39'08 25°Ⅲ03'44	0.67748 AU	evening rise desc. node evening max el retrograde evening set asc. node	16512 Mar 05 18:13 16512 Mar 10 01:00 16512 Mar 14 04:55 16512 Mar 14 12:23 16512 Mar 21 10:23 16512 Apr 10 13:35 16512 Apr 18 08:34 16512 May 01 13:02 16512 May 07 23:20 16512 May 08 22:28	0°Y 8°Y46'29 16°Y54'24 17°Y29'49 0°器 0°Ⅲ 8°Ⅲ43'43 16°Ⅲ11'39 13°Ⅲ38'45 12°Ⅲ49'07	26°43'26
evening max el retrograde asc. node evening set min. Earth dist. inferior conj	16511 Apr 01 07:33 16511 Apr 17 05:01 16511 May 06 18:54 16511 May 12 21:55 16511 May 19 05:47 16511 May 23 01:20 16511 May 24 20:28 16511 May 25 06:42 16511 May 29 12:11 16511 May 31 00:15	3°\delta51'17 0°\delta 24°\delta58'17 0°\delta 2°\delta99'24 1°\delta10'46 30°\delta\delta 29°\delta39'08 25°\delta03'44 23°\delta08'44	0.67748 AU 2°11'09	evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist.	16512 Mar 05 18:13 16512 Mar 10 01:00 16512 Mar 14 04:55 16512 Mar 14 12:23 16512 Mar 21 10:23 16512 Apr 10 13:35 16512 Apr 18 08:34 16512 May 01 13:02 16512 May 07 23:20 16512 May 08 22:28 16512 May 11 23:00	0°Υ 8°Υ46'29 16°Υ54'24 17°Υ29'49 0°℧ 0°П 8°П43'43 16°П11'39 13°П38'45 12°П49'07 9°П38'20	26°43'26 0.66357 AU
evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong	16511 Apr 01 07:33 16511 Apr 17 05:01 16511 May 06 18:54 16511 May 12 21:55 16511 May 19 05:47 16511 May 23 01:20 16511 May 24 20:28 16511 May 25 06:42 16511 May 29 12:11 16511 May 31 00:15 16511 May 30 22:04	3°\&51'17 0°\II 24°\II58'17 0°\S 2°\SO9'24 1°\SI10'46 30°\R\II 29°\II39'08 25°\II03'44 23°\II08'44 23°\II15'42	0.67748 AU 2°11'09	evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj	16512 Mar 05 18:13 16512 Mar 10 01:00 16512 Mar 14 04:55 16512 Mar 14 12:23 16512 Mar 21 10:23 16512 Apr 10 13:35 16512 Apr 18 08:34 16512 May 01 13:02 16512 May 07 23:20 16512 May 08 22:28 16512 May 11 23:00 16512 May 14 00:13	0°Υ 8°Υ46'29 16°Υ54'24 17°Υ29'49 0°႘ 0°Π 8°Π43'43 16°Π11'39 13°Π38'45 12°Π49'07 9°Π38'20 7°Π12'31	26°43'26 0.66357 AU 1°29'26
evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise	16511 Apr 01 07:33 16511 Apr 17 05:01 16511 May 06 18:54 16511 May 12 21:55 16511 May 19 05:47 16511 May 23 01:20 16511 May 24 20:28 16511 May 25 06:42 16511 May 29 12:11 16511 May 31 00:15	3°\851'17 0°\II 24°\II58'17 0°\Signature 2°\Signature 2°\Signature 1°\Signature 1°\Signature 1°\Signature 29°\II39'08 25°\II03'44 23°\II08'44 23°\II15'42 17°\II19'04	0.67748 AU 2°11'09	evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	16512 Mar 05 18:13 16512 Mar 10 01:00 16512 Mar 14 04:55 16512 Mar 14 12:23 16512 Mar 21 10:23 16512 Apr 10 13:35 16512 Apr 18 08:34 16512 May 01 13:02 16512 May 07 23:20 16512 May 08 22:28 16512 May 11 23:00 16512 May 14 00:13 16512 May 13 22:14	0°Υ 8°Υ46'29 16°Υ54'24 17°Υ29'49 0°႘ 0°Π 8°Π43'43 16°Π11'39 13°Π38'45 12°Π49'07 9°Π38'20 7°Π12'31 7°Π18'23	26°43'26 0.66357 AU
evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong	16511 Apr 01 07:33 16511 Apr 17 05:01 16511 May 06 18:54 16511 May 12 21:55 16511 May 19 05:47 16511 May 23 01:20 16511 May 24 20:28 16511 May 25 06:42 16511 May 29 12:11 16511 May 31 00:15 16511 May 30 22:04	3°\&51'17 0°\II 24°\II58'17 0°\S 2°\SO9'24 1°\SI10'46 30°\R\II 29°\II39'08 25°\II03'44 23°\II08'44 23°\II15'42	0.67748 AU 2°11'09	evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj	16512 Mar 05 18:13 16512 Mar 10 01:00 16512 Mar 14 04:55 16512 Mar 14 12:23 16512 Mar 21 10:23 16512 Apr 10 13:35 16512 Apr 18 08:34 16512 May 01 13:02 16512 May 07 23:20 16512 May 08 22:28 16512 May 11 23:00 16512 May 14 00:13	0°Υ 8°Υ46'29 16°Υ54'24 17°Υ29'49 0°႘ 0°Π 8°Π43'43 16°Π11'39 13°Π38'45 12°Π49'07 9°Π38'20 7°Π12'31	26°43'26 0.66357 AU 1°29'26
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evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist.	16511 Apr 01 07:33 16511 Apr 17 05:01 16511 May 06 18:54 16511 May 12 21:55 16511 May 19 05:47 16511 May 23 01:20 16511 May 24 20:28 16511 May 25 06:42 16511 May 30 22:04 16511 May 30 22:04 16511 Jun 05 13:59 16511 Jun 09 00:31 16511 Jun 15 18:51 16511 Jun 23 22:30 16511 Jun 24 15:48 16511 Jun 29 03:01 16511 Jun 08 15:25 16511 Jul 13 14:59 16511 Jul 22 20:59	3°\&\\$51'\17 0°\II 24°\II\58'\17 0°\S 2°\SO9'\24 1°\SO9'\24 1°\SO9'\24 23°\II\39'\84 23°\II\5'\42 17°\II\19'\04 16°\II\1'\21 19°\II\\$0'\14 0°\S 1°\SO2'\00 7°\SO3'\21 22°\SO16'\43 0°\O 14°\O 23'\25\\$ 17°\O 29'\58 17°\O 29'\58 17°\O 29'\58 17°\O 238'\33	0.67748 AU 2°11'09 2°09'57 18°54'54 -0.7m 1.45803 AU -2°13'43	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 desc. node morning set superior conj minimum elong max. Earth dist.	16512 Mar 05 18:13 16512 Mar 10 01:00 16512 Mar 14 04:55 16512 Mar 14 12:23 16512 Mar 21 10:23 16512 Apr 10 13:35 16512 Apr 18 08:34 16512 May 01 13:02 16512 May 07 23:20 16512 May 08 22:28 16512 May 11 23:00 16512 May 14 00:13 16512 May 13 22:14 16512 May 19 22:22 16512 May 22 22:46 16512 May 29 07:40 16512 Jun 10 12:51 16512 Jun 10 12:51 16512 Jun 16 08:06 16512 Jun 17 22:16	0°Υ 8°Υ46'29 16°Υ54'24 17°Υ29'49 0°႘ 0°Ⅱ 8°Ⅱ43'43 16°Ⅲ11'39 13°Ⅲ38'45 12°Ⅲ49'07 9°Ⅲ38'20 7°Ⅲ12'31 7°Ⅲ18'23 1°Ⅲ34'58 0°Ⅲ44'33 4°Ⅲ05'01 20°Ⅲ47'08 0°፵ 2°፵32'27	26°43'26 0.66357 AU 1°29'26 1°28'13 18°14'55 -2°08'52 2°09'14
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evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist. superior conj minimum elong evening rise	16511 Apr 01 07:33 16511 Apr 17 05:01 16511 May 06 18:54 16511 May 12 21:55 16511 May 19 05:47 16511 May 23 01:20 16511 May 24 20:28 16511 May 25 06:42 16511 May 29 12:11 16511 May 30 22:04 16511 Jun 05 13:59 16511 Jun 09 00:31 16511 Jun 15 18:51 16511 Jun 23 22:30 16511 Jun 24 15:48 16511 Jun 29 03:01 16511 Jun 08 15:25 16511 Jul 13 14:59 16511 Jul 22 20:59 16511 Jul 24 20:41 16511 Jul 24 22:52 16511 Jul 24 22:52 16511 Jul 24 22:52 16511 Jul 09 00:52	3°\851'17 0°\II 24°\II58'17 0°\Sigma 2°\S09'24 1°\S10'46 30°\R\II 29°\II39'08 25°\II03'44 23°\II15'42 17°\II19'04 16°\II11'21 19°\II50'14 0°\Sigma 1°\S02'00 7°\S39'21 22°\S16'43 0°\R\I 14°\R23'25 17°\R29'58 17°\R29'58 17°\R38'33 0°\IV 11°\IV37'34	0.67748 AU 2°11'09 2°09'57 18°54'54 -0.7m 1.45803 AU -2°13'43	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 desc. node morning set superior conj minimum elong max. Earth dist. evening rise	16512 Mar 05 18:13 16512 Mar 10 01:00 16512 Mar 14 04:55 16512 Mar 14 12:23 16512 Mar 21 10:23 16512 Apr 10 13:35 16512 Apr 18 08:34 16512 May 01 13:02 16512 May 07 23:20 16512 May 08 22:28 16512 May 11 23:00 16512 May 14 00:13 16512 May 14 00:13 16512 May 19 22:22 16512 May 22 22:46 16512 May 22 22:46 16512 May 29 07:40 16512 Jun 10 12:51 16512 Jun 10 12:51 16512 Jun 16 08:06 16512 Jun 17 22:16 16512 Jul 03 05:55 16512 Jul 03 00:28 16512 Jul 04 17:33 16512 Jul 05 08:08 16512 Jul 19 08:02 16512 Jul 19 08:02	0°Y 8°Y46'29 16°Y54'24 17°Y29'49 0°႘ 0°Ⅱ 8°Ⅱ43'43 16°Ⅲ11'39 13°Ⅲ38'45 12°Ⅲ49'07 9°Ⅲ38'20 7°Ⅲ12'31 7°Ⅲ18'23 1°Ⅲ34'58 0°Ⅲ44'33 4°Ⅲ05'01 20°Ⅲ47'08 0°© 2°©32'27 26°©44'10 26°©22'55 29°©03'12 0°Ω 21°Ω45'37 0°∭	26°43'26 0.66357 AU 1°29'26 1°28'13 18°14'55 -2°08'52 2°09'14 1.46018 AU
evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist. superior conj minimum elong	16511 Apr 01 07:33 16511 Apr 17 05:01 16511 May 06 18:54 16511 May 12 21:55 16511 May 19 05:47 16511 May 23 01:20 16511 May 24 20:28 16511 May 25 06:42 16511 May 29 12:11 16511 May 30 22:04 16511 Jun 05 13:59 16511 Jun 09 00:31 16511 Jun 15 18:51 16511 Jun 23 22:30 16511 Jun 23 22:30 16511 Jun 24 15:48 16511 Jun 29 03:01 16511 Jun 29 03:01 16511 Jul 24 20:59 16511 Jul 24 20:59 16511 Jul 24 20:41 16511 Jul 24 20:41 16511 Jul 24 20:52 16511 Jul 24 20:52 16511 Jul 24 20:52 16511 Jul 24 20:52 16511 Jul 24 20:59	3°\851'17 0°\II 24°\II58'17 0°\S 2°\SO9'24 1°\SO9'24 1°\SO9'24 1°\SO9'24 1°\SO9'24 1°\SO9'24 1°\SO9'24 23°\II08'44 23°\II08'44 23°\II15'42 17°\II19'04 16°\II1'21 19°\II50'14 0°\SO9'120 7°\SO3'21 22°\SO9'21 22°\SO9'21 22°\SO9'21 22°\SO9'25 17°\O29'58 17°\O29'58 17°\O38'33 0°\ID 11°\ID\$37'34 27°\ID\$39'15	0.67748 AU 2°11'09 2°09'57 18°54'54 -0.7m 1.45803 AU -2°13'43	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 desc. node morning set superior conj minimum elong max. Earth dist.	16512 Mar 05 18:13 16512 Mar 10 01:00 16512 Mar 14 04:55 16512 Mar 14 12:23 16512 Mar 21 10:23 16512 Apr 10 13:35 16512 Apr 18 08:34 16512 May 01 13:02 16512 May 07 23:20 16512 May 08 22:28 16512 May 11 23:00 16512 May 14 00:13 16512 May 14 00:13 16512 May 19 22:22 16512 May 22 22:46 16512 May 22 22:46 16512 May 29 07:40 16512 Jun 10 12:51 16512 Jun 10 12:51 16512 Jun 17 22:16 16512 Jul 03 05:55 16512 Jul 03 00:28 16512 Jul 03 00:28 16512 Jul 04 17:33 16512 Jul 05 08:08 16512 Jul 19 08:02 16512 Jul 24 15:26 16512 Jul 29 23:14	0°Y 8°Y46'29 16°Y54'24 17°Y29'49 0°႘ 0°Ⅱ 8°Ⅲ43'43 16°Ⅲ11'39 13°Ⅲ38'45 12°Ⅲ49'07 9°Ⅲ38'20 7°Ⅲ12'31 7°Ⅲ18'23 1°Ⅲ34'58 0°Ⅲ44'33 4°Ⅲ05'01 20°Ⅲ47'08 0°፵ 2°፵32'27 26°ℱ44'10 26°ℱ22'55 29°ℱ03'12 0°Ω 21°Ω45'37 0°™ 8°™10'10	26°43'26 0.66357 AU 1°29'26 1°28'13 18°14'55 -2°08'52 2°09'14 1.46018 AU
evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist. superior conj minimum elong evening rise	16511 Apr 01 07:33 16511 Apr 17 05:01 16511 May 06 18:54 16511 May 12 21:55 16511 May 19 05:47 16511 May 23 01:20 16511 May 24 20:28 16511 May 25 06:42 16511 May 29 12:11 16511 May 30 22:04 16511 Jun 05 13:59 16511 Jun 09 00:31 16511 Jun 15 18:51 16511 Jun 23 22:30 16511 Jun 24 15:48 16511 Jun 29 03:01 16511 Jun 08 15:25 16511 Jul 13 14:59 16511 Jul 22 20:59 16511 Jul 24 20:41 16511 Jul 24 22:52 16511 Jul 24 22:52 16511 Jul 24 22:52 16511 Jul 09 00:52	3°\851'17 0°\II 24°\II58'17 0°\Sigma 2°\S09'24 1°\S10'46 30°\R\II 29°\II39'08 25°\II03'44 23°\II15'42 17°\II19'04 16°\II11'21 19°\II50'14 0°\Sigma 1°\S02'00 7°\S39'21 22°\S16'43 0°\R\I 14°\R23'25 17°\R29'58 17°\R29'58 17°\R38'33 0°\IV 11°\IV37'34	0.67748 AU 2°11'09 2°09'57 18°54'54 -0.7m 1.45803 AU -2°13'43	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 desc. node morning set superior conj minimum elong max. Earth dist. evening rise	16512 Mar 05 18:13 16512 Mar 10 01:00 16512 Mar 14 04:55 16512 Mar 14 12:23 16512 Mar 21 10:23 16512 Apr 10 13:35 16512 Apr 18 08:34 16512 May 01 13:02 16512 May 07 23:20 16512 May 08 22:28 16512 May 11 23:00 16512 May 14 00:13 16512 May 14 00:13 16512 May 19 22:22 16512 May 22 22:46 16512 May 22 22:46 16512 May 29 07:40 16512 Jun 10 12:51 16512 Jun 10 12:51 16512 Jun 16 08:06 16512 Jun 17 22:16 16512 Jul 03 05:55 16512 Jul 03 00:28 16512 Jul 04 17:33 16512 Jul 05 08:08 16512 Jul 19 08:02 16512 Jul 19 08:02	0°Y 8°Y46'29 16°Y54'24 17°Y29'49 0°႘ 0°Ⅱ 8°Ⅱ43'43 16°Ⅲ11'39 13°Ⅲ38'45 12°Ⅲ49'07 9°Ⅲ38'20 7°Ⅲ12'31 7°Ⅲ18'23 1°Ⅲ34'58 0°Ⅲ44'33 4°Ⅲ05'01 20°Ⅲ47'08 0°© 2°©32'27 26°©44'10 26°©22'55 29°©03'12 0°Ω 21°Ω45'37 0°∭	26°43'26 0.66357 AU 1°29'26 1°28'13 18°14'55 -2°08'52 2°09'14 1.46018 AU

	16512 4 11 00 42	2.40 m. 4.412.0	10001144	4 1	16512 4 02 02 50	100m 52100	
evening max el	16512 Aug 11 08:42	24° m) 44'28	19°01'44	retrograde	16513 Aug 02 02:50	12° m 53'29	
retrograde	16512 Aug 18 04:12	28° m 28'39		evening set	16513 Aug 06 00:05	11° m) 26'33	
evening set	16512 Aug 21 15:10	27° m 19'34		inferior conj	16513 Aug 11 07:21	5° Mp 27'26	
inferior conj	16512 Aug 27 03:02	21° m 32'36	2°37'59	minimum elong	16513 Aug 11 08:35	5° m ,23'17	2°58'21
minimum elong	16512 Aug 27 05:01	21°Mp26'14	2°37'26	min. Earth dist.	16513 Aug 12 07:42	4°Mp05'16	0.68055 AU
min. Earth dist.	16512 Aug 28 17:10	19° m 30'27	0.66777 AU		16513 Aug 15 16:16	30° R Ω	
morning rise	16512 Sep 01 18:04	15° Mp 05'26		morning rise	16513 Aug 16 16:37	29° Ω 01'27	
desc. node	16512 Sep 06 10:48	12° m/37'36		direct	16513 Aug 22 08:35	26° Ω 33'26	
direct	16512 Sep 07 20:38	12° m) 29'48		desc. node	16513 Aug 24 08:07	26° Ω 49'07	
morning max el	16512 Sep 20 14:28	20° m) 04'24	26°06'53	dese. Hode	16513 Aug 30 03:17	0° m)	
morning max cr	16512 Sep 29 03:19	20 II) 04 24 0° <u>ი</u>	20 00 33	morning max el	16513 Sep 03 01:33	3° m) 33'56	24°45'03
	•	0° ™		morning max er	-	0∘ ⊽	24 43 03
	16512 Oct 19 03:15				16513 Sep 23 08:10		
morning set	16512 Oct 26 12:33	13°ML05'57		morning set	16513 Oct 08 17:32	25° ≙ 01'33	
max. Earth dist.	16512 Oct 30 06:14	20°M10'42	1.35068 AU		16513 Oct 11 12:32	0° M ₊	
asc. node	16512 Oct 31 23:05	23°M30'16		max. Earth dist.	16513 Oct 12 06:15	1°M20'24	1.37312 AU
	16512 Nov 04 04:48	0° ∡ ¹		asc. node	16513 Oct 18 19:52	13°M42'46	
superior conj	16512 Nov 04 19:14	1° ∡ 13'38	0°34'14	superior conj	16513 Oct 19 05:02	14°M27'23	0°03'26
minimum elong	16512 Nov 04 17:26	1° ≯ 04'26	0°34'26	minimum elong	16513 Oct 19 04:48	14°ML26'11	0°03'47
evening rise	16512 Nov 12 09:20	17° ∡ ′01′23		behind sun begin	16513 Oct 18 22:19	13°M54'38	
	16512 Nov 18 21:08	0°ප		behind sun end	16513 Oct 19 11:16	14°ML57'48	
evening max el	16512 Dec 01 02:02	0 3 17° る 55'17	20°39'41	oeiiiia saii eiia	16513 Oct 26 23:55	0° ∡ 7	
desc. node		17 3 5317 19° る 57'24	20 3941				
	16512 Dec 03 08:40			evening rise	16513 Oct 27 13:29	1° ₹ 08'14	10005105
retrograde	16512 Dec 12 07:35	23° る 29'42		evening max el	16513 Nov 13 12:08	29° ∡ '02'28	19°27'35
evening set	16512 Dec 14 18:33	23° る 14'54			16513 Nov 14 12:19	0°₹	
inferior conj	16512 Dec 23 13:12	19° る 22'14	-5°29'09	desc. node	16513 Nov 20 05:45	3° る 25'39	
minimum elong	16512 Dec 23 04:40	19° る 34'35	5°26'57	retrograde	16513 Nov 23 02:22	3° る 50'39	
min. Earth dist.	16512 Dec 24 18:34	18° る 39'46	0.54534 AU	evening set	16513 Nov 25 01:09	3° ⋜ 39'39	
morning rise	16512 Dec 31 14:35	15° る 25'47			16513 Dec 02 23:08	30°₽ ⋌ ¹	
direct	16513 Jan 05 01:17	14° ♂ 43'12		inferior conj	16513 Dec 03 15:31	29° х 33′36	-4°06'19
morning max el	16513 Jan 18 09:46	21° ප 16'04	23°28'18	minimum elong	16513 Dec 03 05:58	29° х 49′01	4°02'37
morning max or	16513 Jan 25 19:31	0°≈	23 20 10	min. Earth dist.	16513 Dec 06 02:58	27° × 757'41	0.55549 AU
asc. node	16513 Jan 27 22:09	0 ~ 3° ≈ 04'38		morning rise	16513 Dec 11 08:46	25° × 10'12	0.55547 AC
				•			
morning set	16513 Feb 10 22:45	29° ≈ 17'49		direct	16513 Dec 16 19:03	24° ₹ 03'43	
	16513 Feb 11 06:38	0° ∀			16513 Dec 29 13:17	0°₹	
				morning max el	16513 Dec 30 18:09	1° る 06'23	25°16'31
superior conj	16513 Feb 17 19:33	14° ∺ 11′26	1°26'00	asc. node	16514 Jan 14 19:21	21° る 16'04	
minimum elong	16513 Feb 17 21:29	14° ∺ 21'54	1°26'03		16514 Jan 19 15:04	0° ≈	
max. Earth dist.	16513 Feb 20 19:33	20°) 36′11	1.32993 AU	morning set	16514 Jan 26 10:32	13° ≈ 56'54	
	16513 Feb 25 09:17	0 ° \mathbf{Y}					
evening rise	16513 Feb 25 14:49	0° Ƴ 27'34		superior conj	16514 Feb 02 04:04	200- 46110	1025110
desc. node						28°≈46'19	1°35'10
4000. 11040		7° ℃ 44'29		minimum elong			1°35'10 1°35'30
	16513 Mar 01 09:04	7° Ƴ 44'29		minimum elong	16514 Feb 02 05:07	28° ≈ 52'06	1°35'10 1°35'30
avanina may al	16513 Mar 01 09:04 16513 Mar 14 10:56	0° 8	27°24'06		16514 Feb 02 05:07 16514 Feb 02 17:24	28°≈52'06 0°) €	1°35'30
evening max el	16513 Mar 01 09:04 16513 Mar 14 10:56 16513 Mar 31 21:45	0° と 22° と 11'12	27°24'06	max. Earth dist.	16514 Feb 02 05:07 16514 Feb 02 17:24 16514 Feb 03 21:14	28°≈52'06 0°¥ 2°¥33'02	
retrograde	16513 Mar 01 09:04 16513 Mar 14 10:56 16513 Mar 31 21:45 16513 Apr 14 14:07	0°8 22°811'12 29°844'56	27°24'06	max. Earth dist.	16514 Feb 02 05:07 16514 Feb 02 17:24 16514 Feb 03 21:14 16514 Feb 09 10:11	28°≈52'06 0° \ 2° \ 33'02 14° \ 22'28	1°35'30
retrograde evening set	16513 Mar 01 09:04 16513 Mar 14 10:56 16513 Mar 31 21:45 16513 Apr 14 14:07 16513 Apr 21 06:56	0°8 22°811'12 29°844'56 27°816'18		max. Earth dist.	16514 Feb 02 05:07 16514 Feb 02 17:24 16514 Feb 03 21:14 16514 Feb 09 10:11 16514 Feb 16 05:46	28°≈52'06 0°₩ 2°₩33'02 14°₩22'28 27°₩43'46	1°35'30
retrograde evening set min. Earth dist.	16513 Mar 01 09:04 16513 Mar 14 10:56 16513 Mar 31 21:45 16513 Apr 14 14:07 16513 Apr 21 06:56 16513 Apr 25 02:32	0°8 22°811'12 29°844'56 27°816'18 23°847'20	27°24'06 0.64569 AU	max. Earth dist.	16514 Feb 02 05:07 16514 Feb 02 17:24 16514 Feb 03 21:14 16514 Feb 09 10:11 16514 Feb 16 05:46 16514 Feb 17 11:31	28°≈52'06 0° ℋ 2° ℋ33'02 14° ℋ22'28 27° ℋ43'46 0° ℉	1°35'30
retrograde evening set	16513 Mar 01 09:04 16513 Mar 14 10:56 16513 Mar 31 21:45 16513 Apr 14 14:07 16513 Apr 21 06:56 16513 Apr 25 02:32 16513 Apr 25 19:39	0°8 22°811'12 29°844'56 27°816'18 23°847'20 23°801'57	0.64569 AU	max. Earth dist.	16514 Feb 02 05:07 16514 Feb 02 17:24 16514 Feb 03 21:14 16514 Feb 09 10:11 16514 Feb 16 05:46	28°≈52'06 0° ℋ 2° ℋ33'02 14° ℋ22'28 27° ℋ43'46 0° Ƴ 0° ♉	1°35'30 1.31797 AU
retrograde evening set min. Earth dist.	16513 Mar 01 09:04 16513 Mar 14 10:56 16513 Mar 31 21:45 16513 Apr 14 14:07 16513 Apr 21 06:56 16513 Apr 25 02:32	0°8 22°811'12 29°844'56 27°816'18 23°847'20		max. Earth dist.	16514 Feb 02 05:07 16514 Feb 02 17:24 16514 Feb 03 21:14 16514 Feb 09 10:11 16514 Feb 16 05:46 16514 Feb 17 11:31	28°≈52'06 0° ℋ 2° ℋ33'02 14° ℋ22'28 27° ℋ43'46 0° ℉	1°35'30 1.31797 AU
retrograde evening set min. Earth dist. asc. node	16513 Mar 01 09:04 16513 Mar 14 10:56 16513 Mar 31 21:45 16513 Apr 14 14:07 16513 Apr 21 06:56 16513 Apr 25 02:32 16513 Apr 25 19:39	0°8 22°811'12 29°844'56 27°816'18 23°847'20 23°801'57	0.64569 AU	max. Earth dist. evening rise desc. node	16514 Feb 02 05:07 16514 Feb 02 17:24 16514 Feb 03 21:14 16514 Feb 09 10:11 16514 Feb 16 05:46 16514 Feb 17 11:31 16514 Mar 09 12:54	28°≈52'06 0° ℋ 2° ℋ33'02 14° ℋ22'28 27° ℋ43'46 0° Ƴ 0° ♉	1°35'30 1.31797 AU
retrograde evening set min. Earth dist. asc. node inferior conj	16513 Mar 01 09:04 16513 Mar 14 10:56 16513 Mar 31 21:45 16513 Apr 14 14:07 16513 Apr 21 06:56 16513 Apr 25 02:32 16513 Apr 25 19:39 16513 Apr 27 16:08	0°8 22°811'12 29°844'56 27°816'18 23°847'20 23°801'57 21°801'09	0.64569 AU 0°34'21	max. Earth dist. evening rise desc. node	16514 Feb 02 05:07 16514 Feb 02 17:24 16514 Feb 03 21:14 16514 Feb 09 10:11 16514 Feb 16 05:46 16514 Feb 17 11:31 16514 Mar 09 12:54 16514 Mar 14 08:50	28°≈52'06 0° ℋ 2° ℋ33'02 14° ℋ22'28 27° ℋ43'46 0° ℉ 0° ℧ 5° ℧08'19	1°35'30 1.31797 AU
retrograde evening set min. Earth dist. asc. node inferior conj minimum elong	16513 Mar 01 09:04 16513 Mar 14 10:56 16513 Mar 31 21:45 16513 Apr 14 14:07 16513 Apr 21 06:56 16513 Apr 25 02:32 16513 Apr 25 19:39 16513 Apr 27 16:08 16513 Apr 27 15:11 16513 May 04 01:33	0°8 22°811'12 29°844'56 27°816'18 23°847'20 23°801'57 21°801'09 21°803'43 15°837'31	0.64569 AU 0°34'21	max. Earth dist. evening rise desc. node evening max el retrograde	16514 Feb 02 05:07 16514 Feb 02 17:24 16514 Feb 03 21:14 16514 Feb 09 10:11 16514 Feb 16 05:46 16514 Feb 17 11:31 16514 Mar 09 12:54 16514 Mar 14 08:50 16514 Mar 28 07:45 16514 Apr 04 02:55	28°≈52'06 0° ₩ 2° ₩33'02 14° ₩22'28 27° ₩43'46 0° Ψ 0° ₩ 5° ₩08'19 12° ₩38'17 10° ₩21'33	1°35'30 1.31797 AU 27°36'42
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retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set superior conj minimum elong max. Earth dist.	16513 Mar 01 09:04 16513 Mar 14 10:56 16513 Mar 31 21:45 16513 Apr 14 14:07 16513 Apr 21 06:56 16513 Apr 25 02:32 16513 Apr 27 16:08 16513 Apr 27 15:11 16513 May 04 01:33 16513 May 06 16:45 16513 May 13 00:19 16513 May 21 18:30 16513 May 22 18:30 16513 May 28 09:49 16513 May 30 08:23 16513 Jun 13 00:35 16513 Jun 13 00:35 16513 Jun 12 16:02 16513 Jun 17 13:19 16513 Jun 28 02:17	0°8 22°811'12 29°844'56 27°816'18 23°847'20 23°801'57 21°801'09 21°803'43 15°837'31 15°801'43 18°816'18 0°Ⅲ 10°Ⅲ51'46 14°Ⅲ05'55 0°9 6°928'57 5°954'49 13°939'35 0°Ω	0.64569 AU 0°34'21 0°33'33 17°51'59 -1°45'48 1°45'37	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	16514 Feb 02 05:07 16514 Feb 02 17:24 16514 Feb 03 21:14 16514 Feb 09 10:11 16514 Feb 16 05:46 16514 Feb 17 11:31 16514 Mar 09 12:54 16514 Mar 14 08:50 16514 Apr 04 02:55 16514 Apr 07 21:07 16514 Apr 10 20:52 16514 Apr 10 20:52 16514 Apr 10 20:54 16514 Apr 10 20:09 16514 Apr 10 07:45 16514 Apr 10 07:45 16514 Apr 10 03:26 16514 Apr 20 03:26 16514 Apr 20 17:53 16514 Apr 26 17:53 16514 May 12 18:32 16514 May 14 14:47	28°≈52'06 0° ₩ 2° ₩33'02 14° ₩22'28 27° ₩43'46 0° ♥ 0° ੴ 5° ੴ8'19 12° ੴ38'17 10° ੴ21'33 7° ੴ18'39 4° ੴ25'54 4° ੴ23'03 2° ੴ42'25 30° ₹ Ŷ 29° ♥ 18'33 28° ♥ 53'59 0° ੴ 2° ੴ14'23 26° ੴ46'30 0° Ⅲ	1°35'30 1.31797 AU 27°36'42 0.62477 AU -0°35'04 0°34'53
retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set superior conj minimum elong max. Earth dist. evening rise	16513 Mar 01 09:04 16513 Mar 14 10:56 16513 Mar 31 21:45 16513 Apr 14 14:07 16513 Apr 21 06:56 16513 Apr 25 02:32 16513 Apr 27 16:08 16513 Apr 27 16:08 16513 Apr 27 15:11 16513 May 04 01:33 16513 May 04 01:33 16513 May 13 00:19 16513 May 21 18:30 16513 May 22 19:49 16513 May 30 08:23 16513 Jun 08 23:53 16513 Jun 13 00:35 16513 Jun 12 16:02 16513 Jun 17 13:19 16513 Jun 28 02:17 16513 Jun 28 02:17	0°8 22°811'12 29°844'56 27°816'18 23°847'20 23°801'57 21°801'09 21°803'43 15°837'31 15°801'43 18°816'18 0°Ⅲ 10°Ⅲ51'46 14°Ⅲ05'55 0°9 6°\$28'57 5°\$54'49 13°\$39'35 0°Ω 1°Ω13'35 23°Ω16'04	0.64569 AU 0°34'21 0°33'33 17°51'59 -1°45'48 1°45'37 1.45485 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	16514 Feb 02 05:07 16514 Feb 02 17:24 16514 Feb 03 21:14 16514 Feb 09 10:11 16514 Feb 16 05:46 16514 Feb 17 11:31 16514 Mar 09 12:54 16514 Mar 14 08:50 16514 Apr 04 02:55 16514 Apr 04 02:55 16514 Apr 10 20:52 16514 Apr 10 20:52 16514 Apr 10 22:03 16514 Apr 12 16:54 16514 Apr 16 07:45 16514 Apr 17 20:09 16514 Apr 20 03:26 16514 Apr 20 03:26 16514 Apr 20 13:26 16514 Apr 20 13:26 16514 Apr 21 18:32 16514 May 12 18:32 16514 May 14 14:47 16514 May 15 06:43	28°≈52'06 0° ₩ 2° ₩33'02 14° ₩22'28 27° ₩43'46 0° ♥ 0° ੴ 5° ੴ8'19 12° ੴ38'17 10° ੴ21'33 7° ੴ18'39 4° ੴ25'54 4° ੴ23'03 2° ੴ42'25 30° ₹ Ŷ 29° ♥ 18'33 28° ♥ 53'59 0° ੴ 2° ੴ14'23 26° ੴ46'30 0° Ⅲ	1°35'30 1.31797 AU 27°36'42 0.62477 AU -0°35'04 0°34'53
retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	16513 Mar 01 09:04 16513 Mar 14 10:56 16513 Mar 31 21:45 16513 Apr 14 14:07 16513 Apr 21 06:56 16513 Apr 25 02:32 16513 Apr 27 16:08 16513 Apr 27 16:08 16513 Apr 27 15:11 16513 May 04 01:33 16513 May 04 01:33 16513 May 13 00:19 16513 May 21 18:30 16513 May 22 09:49 16513 May 30 08:23 16513 Jun 08 23:53 16513 Jun 13 00:35 16513 Jun 12 16:02 16513 Jun 17 13:19 16513 Jun 28 02:17 16513 Jun 28 21:31 16513 Jul 13 14:40 16513 Jul 18 09:43	0°8 22°811'12 29°844'56 27°816'18 23°847'20 23°801'57 21°801'09 21°803'43 15°837'31 15°801'43 18°816'18 0°Ⅲ 10°Ⅲ51'46 14°Ⅲ05'55 0°9 6°928'57 5°954'49 13°939'35 0°Ω 1°Ω13'35 23°Ω16'04 0°™	0.64569 AU 0°34'21 0°33'33 17°51'59 -1°45'48 1°45'37 1.45485 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	16514 Feb 02 05:07 16514 Feb 02 17:24 16514 Feb 03 21:14 16514 Feb 09 10:11 16514 Feb 16 05:46 16514 Feb 17 11:31 16514 Mar 09 12:54 16514 Mar 14 08:50 16514 Mar 28 07:45 16514 Apr 04 02:55 16514 Apr 04 02:55 16514 Apr 10 20:52 16514 Apr 10 20:52 16514 Apr 10 22:03 16514 Apr 12 16:54 16514 Apr 16 07:45 16514 Apr 20 03:26 16514 Apr 20 03:26 16514 Apr 20 13:26 16514 Apr 20 13:32 16514 Apr 21 18:32 16514 May 14 14:47 16514 May 15 06:43	28°≈52'06 0° ₩ 2° ₩33'02 14° ₩22'28 27° ₩43'46 0° ❤ 0° ੴ 5° ੴ8'19 12° ੴ38'17 10° ੴ21'33 7° ੴ18'39 4° ੴ25'54 4° ੴ23'03 2° ੴ42'25 30° ℝ ❤ 29° ❤ 18'33 28° ❤ 53'59 0° ੴ 2° ੴ14'23 26° ⑥46'30 0° Ⅲ 1° Ⅲ09'29	1°35'30 1.31797 AU 27°36'42 0.62477 AU -0°35'04 0°34'53 17°46'33
retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set superior conj minimum elong max. Earth dist. evening rise	16513 Mar 01 09:04 16513 Mar 14 10:56 16513 Mar 31 21:45 16513 Apr 14 14:07 16513 Apr 21 06:56 16513 Apr 25 02:32 16513 Apr 27 16:08 16513 Apr 27 16:08 16513 Apr 27 15:11 16513 May 04 01:33 16513 May 04 01:33 16513 May 04 16:45 16513 May 13 00:19 16513 May 21 18:30 16513 May 22 09:49 16513 May 30 08:23 16513 Jun 08 23:53 16513 Jun 13 00:35 16513 Jun 12 16:02 16513 Jun 12 16:02 16513 Jun 28 02:17 16513 Jun 28 02:17 16513 Jun 28 21:31 16513 Jul 13 14:40	0°8 22°811'12 29°844'56 27°816'18 23°847'20 23°801'57 21°801'09 21°803'43 15°837'31 15°801'43 18°816'18 0°Ⅲ 10°Ⅲ51'46 14°Ⅲ05'55 0°9 6°\$28'57 5°\$54'49 13°\$39'35 0°Ω 1°Ω13'35 23°Ω16'04	0.64569 AU 0°34'21 0°33'33 17°51'59 -1°45'48 1°45'37 1.45485 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	16514 Feb 02 05:07 16514 Feb 02 17:24 16514 Feb 03 21:14 16514 Feb 09 10:11 16514 Feb 16 05:46 16514 Feb 17 11:31 16514 Mar 09 12:54 16514 Mar 14 08:50 16514 Apr 04 02:55 16514 Apr 04 02:55 16514 Apr 10 20:52 16514 Apr 10 20:52 16514 Apr 10 22:03 16514 Apr 12 16:54 16514 Apr 16 07:45 16514 Apr 17 20:09 16514 Apr 20 03:26 16514 Apr 20 03:26 16514 Apr 20 13:26 16514 Apr 20 13:26 16514 Apr 21 18:32 16514 May 12 18:32 16514 May 14 14:47 16514 May 15 06:43	28°≈52'06 0° ₩ 2° ₩33'02 14° ₩22'28 27° ₩43'46 0° Ψ 0° ₩ 5° ₩08'19 12° ₩38'17 10° ₩21'33 7° ₩18'39 4° ₩25'54 4° ₩23'03 2° ₩42'25 30° ₹,Ψ 29° Ψ18'33 28° Ψ53'59 0° ₩ 2° ₩14'23 26° ₩46'30 0° Ⅲ 1° Ⅲ09'29	1°35'30 1.31797 AU 27°36'42 0.62477 AU -0°35'04 0°34'53 17°46'33

evening rise	16514 Jun 01 12:50 16514 Jun 08 09:12 16514 Jun 21 05:38	0°© 10°©43'45 0°Ω		evening max el asc. node	16515 Jun 15 13:30 16515 Jun 21 07:39 16515 Jun 26 12:39	0°Ω 6°Ω29'02 10°Ω43'21	22°18'33
evening max el	16514 Jul 08 13:34	22° Ω 34'17	21°01'42	retrograde	16515 Jun 30 23:30	12° Ω 07'44	
asc. node	16514 Jul 09 15:44	23° Ω 36'53		evening set	16515 Jul 05 19:15	10° Ω 06′10	
retrograde	16514 Jul 17 01:50	27° Ω 28'22		inferior conj	16515 Jul 11 01:24	3° Ω 46'47	3°05'25
evening set	16514 Jul 21 10:03	25° Ω 43'35	2007124	minimum elong	16515 Jul 11 00:46	3° Ω 49'01	3°04'51
inferior conj	16514 Jul 26 15:30 16514 Jul 26 15:49	19° Ω 33'36 19° Ω 32'33	3°07'34 3°07'07	min. Earth dist.	16515 Jul 10 23:01 16515 Jul 13 21:30	3° £ 55'08 30° ₹ ©	0.69179 AU
minimum elong min. Earth dist.	16514 Jul 26 15:49 16514 Jul 27 02:21	$19^{\circ} \& 132'33$ $18^{\circ} \& 135'58$	0.68862 AU	morning rise	16515 Jul 16 06:07	30°k≌ 27°€32'48	
morning rise	16514 Jul 31 21:18	13°Ω12'30	0.08802 AU	direct	16515 Jul 20 22:08	25°935'41	
direct	16514 Aug 06 01:31	10° Ω 57'58		desc. node	16515 Jul 29 02:41	29°559'06	
desc. node	16514 Aug 11 05:24	12° Ω 44'13			16515 Jul 29 03:04	$0^{\circ}\Omega$	
morning max el	16514 Aug 16 12:50	17° Ω 11'42	23°16'22	morning max el	16515 Jul 30 02:53	0° Ω 57'42	21°49'20
	16514 Aug 27 04:17	0° m			16515 Aug 20 23:19	0° m)	
	16514 Sep 16 08:53	0∘ ⊽		morning set	16515 Aug 31 09:55	16° Mp 05′25	
morning set	16514 Sep 20 01:33	6° £ 03'26		max. Earth dist.	16515 Sep 06 08:58	25° m/44'54	1.42046 AU
max. Earth dist.	16514 Sep 24 05:15	13° ♀ 05'52	1.39734 AU		16515 Sep 08 22:10	0∘ ⊽	
superior conj	16514 Oct 02 00:37	27° Ω 02'34		superior conj	16515 Sep 14 01:29	8° £ 48'10	
minimum elong	16514 Oct 02 03:02	27° £ 13'40	0°31'16	minimum elong	16515 Sep 14 07:12	9° £ 13'04	1°08'12
aga mada	16514 Oct 03 14:49	0°ጤ 3°ጤ54'40		asc. node	16515 Sep 22 13:23	24° ♀ 01'46 28° ♀ 16'16	
asc. node evening rise	16514 Oct 05 16:39 16514 Oct 11 10:33	14°M56'31		evening rise	16515 Sep 24 20:52 16515 Sep 25 19:28	0°M	
evening rise	16514 Oct 19 13:41	0° ∡ 7		evening max el	16515 Oct 10 20:12	23°M38'28	18°09'34
evening max el	16514 Oct 27 11:33	10° ₹ 59'55	18°37'54	retrograde	16515 Oct 17 23:26	27°ML17'49	10 0, 5.
retrograde	16514 Nov 04 15:17	15° ∡ 07'44		evening set	16515 Oct 20 03:08	26°M58'17	
evening set	16514 Nov 06 13:42	14° ∡ ¹54'35		desc. node	16515 Oct 25 00:06	24°ML11'49	
desc. node	16514 Nov 07 02:54	14° ∡ ¹46′15		inferior conj	16515 Oct 27 10:04	22°ML09'57	-0°46'31
inferior conj	16514 Nov 14 13:57	10° ∡ ¹27'53	-2°23'54	minimum elong	16515 Oct 27 08:24	22°M13'35	0°45'23
minimum elong	16514 Nov 14 08:10	10° ∡ ³38'46	2°21'03	min. Earth dist.	16515 Oct 30 15:36	19° M 20′52	0.59450 AU
min. Earth dist.	16514 Nov 17 17:04	8° √ 07'21	0.57287 AU	morning rise	16515 Nov 03 10:21	16°M35'41	
morning rise	16514 Nov 21 23:27	5° 🖈 28'27		direct	16515 Nov 09 23:30	14°M37'07	27942125
direct morning max el	16514 Nov 28 02:45 16514 Dec 12 07:51	3° х 55′26 11° х 20′41	26°46'12	morning max el	16515 Nov 24 06:01 16515 Dec 01 01:00	22°M20'31 0° ∡ ′	27°42'25
morning max er	16514 Dec 26 18:17	11 x 2041 0°る	20 40 12	asc. node	16515 Dec 19 13:37	29° ∡ ¹28'48	
asc. node	16515 Jan 01 16:31	0 ර 10° ට 07'52		use. Houe	16515 Dec 19 20:08	0°ਰ ਹਾਣ	
morning set	16515 Jan 10 20:37	28° ට 27'10		morning set	16515 Dec 26 03:07	12° ට 43'14	
	16515 Jan 11 13:49	0° ≈		max. Earth dist.	16516 Jan 01 11:24	26° පි 37'08	1.30982 AU
superior conj	16515 Jan 17 15:00	13° ≈ 24'49	1°38'15	superior conj	16516 Jan 02 02:22	28° ට 00'53	1°35'16
minimum elong	16515 Jan 17 15:00	13° ≈ 24'50	1°38'44	minimum elong	16516 Jan 02 01:21	27° る 55'09	1°35'47
max. Earth dist.	16515 Jan 18 03:45	14° ≈ 36′12	1.31121 AU		16516 Jan 02 23:38	0° ≈	
evening rise	16515 Jan 24 12:31	28° ≈ 33'07		evening rise	16516 Jan 08 19:33	12° ≈ 53'24	
	16515 Jan 25 04:59	0° ∺			16516 Jan 17 07:36	0° ∀	
desc. node	16515 Feb 03 02:32	17° ¥ 21'34 0° Ƴ		desc. node	16516 Jan 20 23:20	6° ¥ 29'04	26010125
evening max el	16515 Feb 10 17:47 16515 Feb 24 15:19	17° Y 22'50	27°15'43	evening max el	16516 Feb 06 14:20 16516 Feb 07 23:22	28°) 44'38 0° °	26°19'35
retrograde	16515 Mar 10 16:14	24° Υ 42'56	27 13 43	retrograde	16516 Feb 20 14:02	5°Υ52'38	
evening set	16515 Mar 17 08:22	22° Υ 45'07		evening set	16516 Feb 26 19:54	4° Υ 19'12	
min. Earth dist.	16515 Mar 21 05:33	20° Y ′00′29	0.60226 AU	min. Earth dist.	16516 Mar 02 03:36	1° Υ 41'31	0.58008 AU
inferior conj	16515 Mar 24 10:50	17° Ƴ 17'36	-1°58'05		16516 Mar 04 11:29	30° ₹ ₩	
minimum elong	16515 Mar 24 15:15	17° Ƴ 08'13	1°56'26	inferior conj	16516 Mar 05 06:12	29° ∺ 25'33	-3°29'34
asc. node	16515 Mar 30 14:11	13° Y 01'10		minimum elong	16516 Mar 05 14:13	29°) 10′52	3°26'42
morning rise	16515 Apr 01 01:40	12° Y 29′23		morning rise	16516 Mar 13 11:56	24° ¥ 58'59	
direct	16515 Apr 03 02:57	12°Υ12'31		direct	16516 Mar 15 10:46	24°) (46'15	
morning max el	16515 Apr 10 09:05	15° Y 49'54	17°59'34	asc. node	16516 Mar 16 11:28	24°) 49'56	10022120
morning set	16515 Apr 20 06:12	0° と 10° と 17'08		morning max el	16516 Mar 23 18:07 16516 Mar 24 20:17	28° ¥ 51'59 0° Ƴ	18°32'39
morning set desc. node	16515 Apr 25 22:56 16515 May 02 03:34	21° 8 35'50		morning set	16516 Mar 24 20:17 16516 Apr 08 16:18	0° γ 24° Υ 22'04	
aose, noue	10010 Iviay 02 00.34	21 ()3330		morning set	16516 Apr 11 14:31	0°8	
superior conj	16515 May 06 06:35	28° 8 56'08	-0°33'42				
minimum elong	16515 May 06 03:42	28° 8 43'31		superior conj	16516 Apr 17 17:58	11° 8 37'13	0°02'16
	16515 May 06 21:11	$\Pi^{\circ}0$		minimum elong	16516 Apr 17 18:06	11° 8 37'50	0°01'52
max. Earth dist.	16515 May 13 19:37	11° Ⅱ 47′24	1.42479 AU	behind sun begin	16516 Apr 17 11:03	11° 8 05'09	
evening rise	16515 May 19 10:22	20° Ⅱ 53'56		behind sun end	16516 Apr 18 01:09	12° 8 10'26	
	16515 May 25 06:25	0ං ව		desc. node	16516 Apr 18 00:23	12° 8 06'54	

max. Earth dist.	16516 Apr 25 04:18 16516 Apr 28 03:40 16516 Apr 29 08:10	0° П 1° П 59'12	1.40311 AU	max. Earth dist. evening rise	16517 Apr 07 10:12 16517 Apr 11 02:50 16517 Apr 20 18:17	7° 8 21'05 13° 8 57'29 0°Ⅲ	1.38005 AU
evening max el	16516 May 17 13:38 16516 Jun 02 22:16	0°© 20°©24'08	23°40'02	evening max el	16517 May 12 10:40 16517 May 16 11:35	0°ତ 4°ତ୍ତ18'52	24°59'40
asc. node	16516 Jun 12 09:37	26°\$38'00	23 40 02	retrograde	16517 May 28 10:02	11°9516'03	24 39 40
retrograde	16516 Jun 13 18:39	26°\$46'03		asc. node	16517 May 30 06:38	11° 5 01'43	
evening set	16516 Jun 19 02:03	24°930'10		evening set	16517 Jun 03 04:45	8°9549'37	
inferior conj	16516 Jun 24 11:07	18° © 03'30	2°52'51	min. Earth dist.	16517 Jun 07 14:08	3° 9 53'13	0.68336 AU
minimum elong	16516 Jun 24 09:39	18° © 08'31	2°52'02	inferior conj	16517 Jun 08 18:42	2° © 19'03	2°29'38
min. Earth dist.	16516 Jun 23 19:37	18° 9 56'36	0.69000 AU	minimum elong	16517 Jun 08 16:40	2° © 25'47	2°28'34
morning rise	16516 Jun 29 17:15	11° © 58'03			16517 Jun 10 13:57	30°RⅡ	
direct	16516 Jul 03 21:17	10° 5 20'16		morning rise	16517 Jun 14 04:52	26° Ⅲ 23′12	
morning max el	16516 Jul 11 22:30	14° 9 54'23	20°30'50	direct	16517 Jun 17 21:29	25° Ⅱ 04'54	
desc. node	16516 Jul 14 23:54	18° © 13'48		morning max el	16517 Jun 25 01:07	29° Ⅱ 00'46	19°25'25
	16516 Jul 23 22:19	0 \circ Ω			16517 Jun 26 00:22	0	
morning set	16516 Aug 09 21:48	25° Ω 17'21		desc. node	16517 Jul 01 21:03	7° © 12'09	
	16516 Aug 12 22:39	0° ™		greatest brilliancy	16517 Jul 07 17:41	15° © 32'20	-0.7m
max. Earth dist.	16516 Aug 18 19:09	9° m 15'18	1.43977 AU		16517 Jul 17 08:03	0°N	
	16516 4 25 02 47	100m 2720	1042115	morning set	16517 Jul 20 02:16	4°Ω13'36	1 45222 433
superior conj	16516 Aug 25 03:47	19° m 36'20		max. Earth dist.	16517 Aug 01 10:35	23° Ω 23′03	1.45332 AU
minimum elong	16516 Aug 25 11:42	20° m 09'09	1°42'35		16517 4 05 06 50	200 027155	2007121
	16516 Aug 31 08:07	0∘ ⊽		superior conj	16517 Aug 05 06:59	29° Ω 27'55 29° Ω 51'24	
evening rise asc. node	16516 Sep 06 15:47 16516 Sep 08 10:08	10° Ω 55'50 14° Ω 00'30		minimum elong	16517 Aug 05 12:54 16517 Aug 05 15:04	0° Mp	2-07-26
asc. Houe	16516 Sep 18 00:54	0°M		evening rise	16517 Aug 03 13:04 16517 Aug 19 13:48	22° Mp 40'44	
evening max el	16516 Sep 23 09:52	6°M48'33	18°01'00	evening rise	16517 Aug 19 13.48 16517 Aug 23 23:51	0° ⊽	
retrograde	16516 Sep 29 23:03	10°M12'28	10 01 00	asc. node	16517 Aug 26 06:50	3° Ω 45'47	
evening set	16516 Oct 02 10:23	9°M42'48		evening max el	16517 Sep 07 00:49	20° ₽ 20'26	18°11'00
inferior conj	16516 Oct 09 01:10	4°M35'10	0°34'13	retrograde	16517 Sep 13 09:31	23° Ω 41'52	10 11 00
minimum elong	16516 Oct 09 02:11	4°M32'37	0°34'08	evening set	16517 Sep 16 05:32	22° £ 58'45	
desc. node	16516 Oct 10 21:21	2°M43'30		inferior conj	16517 Sep 22 07:12	17° ≏ 34'26	1°35'51
min. Earth dist.	16516 Oct 12 00:16	1°M37'17	0.61745 AU	minimum elong	16517 Sep 22 09:21	17° ≏ 28'20	1°35'17
	16516 Oct 13 18:59	30° Ŗ Ω		min. Earth dist.	16517 Sep 24 18:56	14° £ 46'51	0.63933 AU
morning rise	16516 Oct 15 15:14	28° ≏ 34'15		desc. node	16517 Sep 27 18:38	11° ≏ 50'49	
direct	16516 Oct 22 07:48	26° ₽ 14'43		morning rise	16517 Sep 28 11:16	11° ≏ 16′59	
	16516 Oct 31 16:18	0°M₊		direct	16517 Oct 05 01:44	8° ≏ 44'10	
morning max el	16516 Nov 05 11:27	4° ™ 10'30	27°59'09	morning max el	16517 Oct 18 21:09	16° ≏ 42'22	27°38'30
	16516 Nov 24 18:19	0° ∡ 7			16517 Oct 29 22:31	0° M	
asc. node	16516 Dec 05 10:39	19° ∡ 10'59 −			16517 Nov 17 13:11	0° ∡ ¹	
morning set	16516 Dec 09 03:59	26° ∡ ¹40'29		asc. node	16517 Nov 22 07:36	9° ∡ 107'58	
	16516 Dec 10 18:11	0°る		morning set	16517 Nov 22 20:46	10° ₹ 13'23	
max. Earth dist.	16516 Dec 14 16:17		1.31401 AU	max. Earth dist.	16517 Nov 27 14:31	19° ∡ 57'42	1.32390 AU
superior conj	16516 Dec 16 12:19	12° る 29'44	1°26'12	superior conj	16517 Nov 30 18:51	26° ∡ ¹46′18	1°10'57
minimum elong	16516 Dec 16 10:27	12° る 19'24	1°26'37	minimum elong	16517 Nov 30 16:30	26° ₹ 33'36	1°11'14
evening rise	16516 Dec 23 05:20	27° る 19'00			16517 Dec 02 06:28	0° ろ	
	16516 Dec 24 11:18	0° ≈		evening rise	16517 Dec 07 16:06	11° る 45'53	
desc. node	16517 Jan 06 20:10	24°≈55'21			16517 Dec 16 19:08	0° ≈	
. ,	16517 Jan 10 07:15	0°){	24052122	desc. node	16517 Dec 24 17:03	12°≈25'59	22011110
evening max el	16517 Jan 18 04:49	9°) 14'56	24°53'32	evening max el	16517 Dec 30 14:26	19°≈13'48	23°11'18
retrograde	16517 Jan 31 23:34 16517 Feb 06 10:10	16°) €08'34 15°) €02'37		retrograde	16518 Jan 12 19:40 16518 Jan 17 02:27	25°≈45'50 25°≈06'08	
evening set min. Earth dist.	16517 Feb 06 10.10 16517 Feb 11 17:03	13 ★0237 12°¥16'00	0.56098 AU	evening set min. Earth dist.	16518 Jan 24 00:57	23 ≈00 08 21°≈51'52	0.54804 AU
inferior conj	16517 Feb 11 17:03	12 X 16 00 10° X 41'49		inferior conj	16518 Jan 25 06:57	21 ≈31 32 21°≈08'46	
minimum elong	16517 Feb 14 13:47	10° X 26'52		minimum elong	16518 Jan 25 11:45	21°≈01'52	
morning rise	16517 Feb 22 19:54	6° ¥ 36'12	7 33 27	morning rise	16518 Feb 02 22:20	17°≈17'41	3 32 23
direct	16517 Feb 24 22:58	6° ∺ 23'38		direct	16518 Feb 05 16:46	16°≈59'30	
asc. node	16517 Mar 03 08:47	8° ¥ 26'11		morning max el	16518 Feb 17 01:08	22° ≈ 29'11	20°45'54
morning max el	16517 Mar 06 16:44	11°) €08'19	19°27'41	asc. node	16518 Feb 18 06:04	23° ≈ 42'42	
-	16517 Mar 19 06:35	0° Υ			16518 Feb 23 05:43	0° ∀	
morning set	16517 Mar 23 18:24	8° Y '48'21		morning set	16518 Mar 08 02:08	23°) €27'02	
					16518 Mar 11 05:39	0° Y	
superior conj	16517 Mar 31 21:34	25° Y ′01′05	0°33'31				
minimum elong	16517 Mar 31 23:27	25° Y 10′16	0°33'00	superior conj	16518 Mar 15 13:18	8° Y 56'18	
	16517 Apr 03 11:36	0°8		minimum elong	16518 Mar 15 15:48	9° Y ′09′05	0°58'26
desc. node	16517 Apr 04 21:07	2° 8 38'22		max. Earth dist.	16518 Mar 20 18:08	19° Ƴ 18'21	1.35809 AU

desc. node	16518 Mar 22 17:50	23° Y ′06'47		minimum elong	16519 Feb 27 15:57	23°) 24′50	1°17'45
evening rise	16518 Mar 24 15:34	26° Y 40'32			16519 Mar 02 19:25	0° Y	
	16518 Mar 26 11:16	0° 8		max. Earth dist.	16519 Mar 03 08:30	1° Y 07'21	1.33911 AU
	16518 Apr 14 04:07	Π °0		evening rise	16519 Mar 07 18:43	9° Y 57'35	
evening max el	16518 Apr 29 01:13	18° Ⅱ 10′29	26°10'05	desc. node	16519 Mar 09 14:33	13° Y 27'28	
retrograde	16518 May 11 20:37	25° Ⅱ 30'39			16519 Mar 18 22:57	$0^{\circ}S$	
asc. node	16518 May 17 03:43	23° Ⅱ 40'47			16519 Apr 09 19:23	Π °0	
evening set	16518 May 18 01:37	22° Ⅱ 58'41		evening max el	16519 Apr 11 15:05	1° Ⅱ 50′19	27°03'44
min. Earth dist.	16518 May 22 04:29	18° Ⅲ 38′10	0.67208 AU	retrograde	16519 Apr 25 01:16	9° Ⅱ 21'13	
inferior conj	16518 May 23 22:07	16° Ⅱ 29'01	1°55'02	evening set	16519 May 01 14:40	6° Ⅱ 49'37	
minimum elong	16518 May 23 19:57	16° Ⅱ 35'48	1°53'47	asc. node	16519 May 04 00:53	4° Ⅲ 38′03	
morning rise	16518 May 29 15:04	10° Ⅱ 44'05		min. Earth dist.	16519 May 05 12:31	3° Ⅱ 02'50	0.65646 AU
direct	16518 Jun 01 21:08	9° Ⅱ 44'03		inferior conj	16519 May 07 19:01	0° Ⅲ 27'14	1°07'47
morning max el	16518 Jun 08 10:34	13° Ⅱ 13'49	18°35'44	minimum elong	16519 May 07 17:22	0° Ⅱ 32'00	1°06'41
desc. node	16518 Jun 18 18:08	26° Ⅱ 42'48			16519 May 08 04:34	30°R 8	
	16518 Jun 20 22:10	0°©		morning rise	16519 May 13 21:36	24° 8 55'03	
morning set	16518 Jun 29 19:14	13°5548'38		direct	16519 May 16 18:01	24° 8 11'05	10000150
D. d. F.	16518 Jul 10 03:54	0°N	1 45000 411	morning max el	16519 May 23 01:15	27° 8 27'31	18°02'58
max. Earth dist.	16518 Jul 15 05:45	7° Ω 54'43	1.45989 AU	1 1	16519 May 25 09:15	0°П	
	16510 1 1 15 10 21	00 0 4 4120	201.4100	desc. node	16519 Jun 05 15:09	16° Ⅱ 36'53	
superior conj	16518 Jul 15 18:31	8° Ω 44'28		morning set	16519 Jun 10 13:44	24° ∏ 37'49	
minimum elong	16518 Jul 15 17:18	8° Ω 39'42	2°14'40		16519 Jun 13 21:14	0ං ව	
evening rise	16518 Jul 29 07:48 16518 Jul 31 10:56	0°Mp 3°Mp22'21		aumariar aani	16510 Jun 25 05:40	100@06127	2900159
greatest brilliancy	16518 Aug 07 20:34	15° m) 04'48	-0.9m	superior conj minimum elong	16519 Jun 25 05:48 16519 Jun 24 22:16	18°506'27 17°536'50	
asc. node	16518 Aug 13 03:33	23° M) 12'22	-0.9111	max. Earth dist.	16519 Jun 28 02:37	22°\$36'07	1.45887 AU
asc. Houe	16518 Aug 18 00:04	0° ⊽		max. Earth dist.	16519 Jul 02 20:41	0°Ω	1.43667 AU
evening max el	16518 Aug 21 13:54	0 = 4° ჲ 06'06	18°38'29	evening rise	16519 Jul 11 09:05	13° Ω 09'15	
retrograde	16518 Aug 28 02:57	7° ₽ 37'59	10 30 29	evening rise	16519 Jul 22 10:17	0°m)	
evening set	16518 Aug 31 08:21	6° ≏ 38'48		greatest brilliancy	16519 Jul 24 00:55	2° Mg 23'49	-0.7m
inferior conj	16518 Sep 06 00:18	0° ჲ 59'47	2°19'47	asc. node	16519 Jul 31 00:19	12° m) 13'47	0.7111
minimum elong	16518 Sep 06 02:32		2°19'10	evening max el	16519 Aug 04 22:41	17° m) 59'14	19°22'32
g	16518 Sep 06 19:39	30°R, M)	_ 1, 10	retrograde	16519 Aug 12 00:24	21° m/54'28	19 22 32
min. Earth dist.	16518 Sep 07 22:32	28° m) 37'49	0.65849 AU	evening set	16519 Aug 15 15:46	20° m) 37'40	
morning rise	16518 Sep 11 19:36	24° m/34'26		inferior conj	16519 Aug 21 01:19	14° m) 45'26	2°48'23
desc. node	16518 Sep 14 15:57	22° m/43'40		minimum elong	16519 Aug 21 03:01	14° m) 39'51	2°47'53
direct	16518 Sep 18 03:33	21° m 57'19		min. Earth dist.	16519 Aug 22 09:31	12° m 59'44	0.67378 AU
morning max el	16518 Oct 01 08:22	29° m/44'16	26°47'00	morning rise	16519 Aug 26 13:39	8° m) 18'31	
C	16518 Oct 01 14:35	0∘ <u>⊽</u>		direct	16519 Sep 01 11:59	5° m/45'25	
	16518 Oct 23 20:29	0° M		desc. node	16519 Sep 01 13:16	5° m/45'25	
morning set	16518 Nov 06 02:29	23°M14'18		morning max el	16519 Sep 13 19:43	13°M)06'28	25°33'34
asc. node	16518 Nov 09 04:29	29°M14'00			16519 Sep 27 12:27	0∘ ⊽	
	16518 Nov 09 13:44	0° ∡ ¹			16519 Oct 16 14:08	0° M	
max. Earth dist.	16518 Nov 10 03:26	1° ∡ °08'22	1.33944 AU	morning set	16519 Oct 19 17:39	5°M36'02	
				max. Earth dist.	16519 Oct 23 07:28	12°M12'49	1.35987 AU
superior conj	16518 Nov 14 19:35	10° ∡ ¹43'43	0°49'26	asc. node	16519 Oct 27 01:18	19°M25'14	
minimum elong	16518 Nov 14 17:21	10° ∡ °32′01	0°49'38				
evening rise	16518 Nov 22 01:56	26° х 08'49		superior conj	16519 Oct 29 11:48	24°M15'38	0°21'51
	16518 Nov 23 22:04	0°ಕ		minimum elong	16519 Oct 29 10:32	24° ™ 09'14	0°22'05
desc. node	16518 Dec 11 14:00	28° ろ 40'46			16519 Nov 01 07:43	0° ∡ ¹	
evening max el	16518 Dec 12 03:48	29° る 15'25	21°30'51	evening rise	16519 Nov 06 08:52	10° ∡ ′23′22	
	16518 Dec 12 22:32	0° ≈			16519 Nov 16 17:50	0° ろ	
retrograde	16518 Dec 24 05:46	5°≈13'37		evening max el	16519 Nov 24 05:18	9° る 53'10	20°06'17
evening set	16518 Dec 27 06:39	4°≈52'36	5055140	desc. node	16519 Nov 28 11:02	13°る16'28	
inferior conj	16519 Jan 04 22:11	1°≈03'01		retrograde	16519 Dec 04 17:50	15° る 07'48	
minimum elong	16519 Jan 04 17:39	1°≈09'22		evening set	16519 Dec 06 22:05	14° ろ 55'23	4050105
min. Earth dist.	16519 Jan 05 06:04	0°≈51'58	0.54364 AU	inferior conj	16519 Dec 15 16:24 16519 Dec 15 06:33	10°る58'00 11°る12'49	
morning rise	16519 Jan 06 19:34 16519 Jan 13 05:08	30°Rる 27°る14'04		minimum elong min. Earth dist.	16519 Dec 15 06:33 16519 Dec 17 11:56	9° る 52'37	4°55'19 0.54865 AU
morning rise direct	16519 Jan 13 05:08 16519 Jan 17 00:53	2/°る14'04 26°る42'18		min. Earth dist.	16519 Dec 17 11:56 16519 Dec 23 14:10	9° る 52'37 6° る 52'23	0.54805 AU
uncci	16519 Jan 17 00:53 16519 Jan 26 07:01	26° ⊙ 42′18 0° ≈		direct	16519 Dec 23 14:10 16519 Dec 28 11:44	6°る52'23 6° る 00'17	
morning max el	16519 Jan 29 18:39	0 ≈ 2°≈54'06	22°25'10	morning max el	16520 Jan 11 03:29	12° る 45'56	24015122
asc. node	16519 Feb 05 03:20	2 ≈34 00 10°≈21'00	22 23 10	asc. node	16520 Jan 23 00:35	12 3 43 36 28° る 02'53	4T 1343
ase. Houe	16519 Feb 16 14:12	0° \		abe. Houe	16520 Jan 24 05:14	28 ℃ 02 33	
morning set	16519 Feb 20 12:59	8° ₩ 10'15		morning set	16520 Feb 05 01:00	22°≈52'30	
		- /(1010			16520 Feb 08 07:34	0° ∀	
superior conj	16519 Feb 27 13:38	23° ¥ 12'36	1°17'54				
r			. = -				

superior conj	16520 Feb 11 19:52	7°) 42′33	1°20'20	asc. node	16521 Jan 08 21:46	16° る 32'28	
minimum elong	16520 Feb 11 19:32	7° H 51'15	1°30'48	asc. node	16521 Jan 15 23:04	0°≈	
C				. ,			
max. Earth dist.	16520 Feb 14 06:34	13°) €00'52	1.32431 AU	morning set	16521 Jan 19 12:19	7° ≈ 28'32	
evening rise	16520 Feb 19 09:00	23°) 40′32					
	16520 Feb 22 13:47	0° Υ		superior conj	16521 Jan 26 05:40	22° ≈ 19'40	1°37'13
desc. node	16520 Feb 24 11:15	3° Y 36′06		minimum elong	16521 Jan 26 06:17	22° ≈ 23'04	1°37'37
	16520 Mar 11 14:03	$_{0\circ}$ 8		max. Earth dist.	16521 Jan 27 10:43	25° ≈ 00'57	1.31438 AU
evening max el	16520 Mar 24 03:43	15° 8 06'22	27°33'09		16521 Jan 29 17:06	0° ∀	
retrograde	16520 Apr 06 23:03	22° 8 38'36		evening rise	16521 Feb 02 07:37	7°) 42′32	
evening set	16520 Apr 13 17:38	20° 8 14'07		desc. node	16521 Feb 10 08:00	23° ∺ 27'13	
min. Earth dist.	16520 Apr 17 12:18	16° 8 57'09	0.63718 AU		16521 Feb 14 00:49	$0^{\circ}\mathbf{\Upsilon}$	
asc. node	16520 Apr 19 22:07	14° 8 28'33		evening max el	16521 Mar 06 13:00	27° Y '46'31	27°32'02
inferior conj	16520 Apr 20 06:36	14° 8 06'31	0°06'40	_	16521 Mar 09 00:39	0°B	
minimum elong	16520 Apr 20 06:25	14° 8 07'01	0°06'12	retrograde	16521 Mar 20 13:06	5° 8 13'20	
transit middle	16520 Apr 20 06:25	14° 8 07'01	0°06'12	evening set	16521 Mar 27 07:55	3° 8 03'26	
transit begin	16520 Apr 20 03:31	14° 8 14'31		min. Earth dist.	16521 Mar 31 02:30	0° 8 09'49	0.61529 AU
transit end	16520 Apr 20 09:18	13° 8 59'32		min. Luttii dist.	16521 Mar 31 06:58	30°RY	0.01327110
morning rise	16520 Apr 26 21:38	8° 8 49'30		inferior conj	16521 Apr 03 05:34	27° Υ 18'50	1000145
-	-	8° 8 18'46			16521 Apr 03 08:00	27° Υ 13'16	1°07'59
direct	16520 Apr 29 09:25		17047120	minimum elong	1	24° Y 13'16	1-0/39
morning max el	16520 May 05 18:40	11° 8 34'01	17°47'29	asc. node	16521 Apr 06 19:23		
	16520 May 18 12:04	0°II		morning rise	16521 Apr 10 11:24	22° Y 19'40	
morning set	16520 May 22 10:44	6° Ⅱ 41'44		direct	16521 Apr 12 15:50	21° Y 58'50	
desc. node	16520 May 22 12:05	6° Ⅱ 47'30		morning max el	16521 Apr 19 11:48	25° Y 24'50	17°49'48
					16521 Apr 23 08:29	9° 8	
superior conj	16520 Jun 04 08:23	28° Ⅱ 13'11	-1°32'07	morning set	16521 May 05 05:26	19° 8 46'14	
minimum elong	16520 Jun 04 00:16	27° Ⅱ 40'15	1°31'49	desc. node	16521 May 09 08:58	27° 8 09'45	
	16520 Jun 05 10:47	0°99			16521 May 10 23:34	$\Pi^{\circ}0$	
max. Earth dist.	16520 Jun 09 22:03	7° © 08'41	1.45046 AU		•		
evening rise	16520 Jun 19 19:41	22° © 32'41		superior conj	16521 May 16 09:54	9° Ⅲ 23'39	-0°55'33
Č	16520 Jun 24 17:30	$0^{\circ}\Omega$		minimum elong	16521 May 16 04:54	9° Ⅱ 02'22	0°55'21
	16520 Jul 16 06:22	0° m)		max. Earth dist.	16521 May 23 13:36	21° I I16'38	1.43562 AU
asc. node	16520 Jul 16 21:09	0° Mp 40'27		max. Earth dist.	16521 May 29 00:44	0°95	1.13302710
	16520 Jul 18 01:33	1° mp 54'02	20°21'45	evening rise	16521 May 30 11:42	2°9516'50	
evening max el			20 21 43	evening rise	•	2 3 10 30	
retrograde	16520 Jul 25 23:30	6° Mp 24'24			16521 Jun 18 04:51		21022122
evening set	16520 Jul 30 01:24	4° m/49'35		evening max el	16521 Jun 30 22:25	15° Ω 48'45	21°33'22
	16520 Aug 03 09:38	30°R€		asc. node	16521 Jul 03 18:03	18° Ω 20'38	
inferior conj	16520 Aug 04 07:33	28° Ω 45'28	3°03'54	retrograde	16521 Jul 09 22:15	21° Ω 02'08	
minimum elong	16520 Aug 04 08:24	28° Ω 42'34	3°03'29	evening set	16521 Jul 14 11:16	19° Ω 09'59	
min. Earth dist.	16520 Aug 05 02:00	27° Ω 42'15	0.68456 AU	inferior conj	16521 Jul 19 16:43	12° Ω 55'32	
morning rise	16520 Aug 09 15:04	22° £ 21′20		minimum elong	16521 Jul 19 16:37	12° Ω 55'53	3°07'28
direct	16520 Aug 15 02:02	19° Ω 58'46		min. Earth dist.	16521 Jul 19 21:52	12° Ω 37'33	0.69056 AU
desc. node	16520 Aug 18 10:35	20° Ω 43'48		morning rise	16521 Jul 24 21:45	6° Ω 37'02	
morning max el	16520 Aug 26 06:51	26° Ω 40′20	24°07'42	direct	16521 Jul 29 20:40	4° Ω 29'44	
	16520 Aug 29 09:00	0° m)		desc. node	16521 Aug 05 07:52	7° Ω 15'38	
	16520 Sep 20 02:09	0∘ ⊽		morning max el	16521 Aug 08 19:07	10° Ω 22'07	22°38'36
morning set	16520 Sep 30 14:09	17° ₽ 09'26			16521 Aug 24 07:47	0° m/	
max. Earth dist.	16520 Oct 04 06:36	23° ≙ 35'45	1.38340 AU	morning set	16521 Sep 11 12:13	27° m) 46'09	
	16520 Oct 07 19:32	0° M			16521 Sep 12 20:54	0∘ ⊽	
				max. Earth dist.	16521 Sep 16 06:48	5° ≏ 41'37	1.40748 AU
superior conj	16520 Oct 11 16:02	7°ML13'29	0°11'08	max. Earth dist.	10321 Sep 10 00.10	3 — 1137	1.10710710
minimum elong	16520 Oct 11 16:47	7°M17'03		superior conj	16521 Sep 24 04:08	19° ≏ 28'15	0047142
•			0 1041		•		
behind sun begin	16520 Oct 11 11:31	6°M51'59		minimum elong	16521 Sep 24 07:55	19° £ 45'20	0-40-55
behind sun end	16520 Oct 11 22:02	7°M42'10		asc. node	16521 Sep 29 18:52	29° ≏ 47'42	
asc. node	16520 Oct 12 22:06	9° M 37′35			16521 Sep 29 21:29	0° M	
evening rise	16520 Oct 20 10:24	24°M23'05		evening rise	16521 Oct 04 03:23	8° ™ 00'14	
	16520 Oct 23 07:07	0° ⊼			16521 Oct 16 23:10	0° ∡ ¹	
evening max el	16520 Nov 05 21:17	21° ≯ ′21′05	19°03'40	evening max el	16521 Oct 20 01:08	3° ∡ ³36'54	18°23'19
desc. node	16520 Nov 14 08:09	25° х 50′39		retrograde	16521 Oct 27 17:18	7° ∡ °31'08	
retrograde	16520 Nov 14 20:03	25° ∡ ¹51'27		evening set	16521 Oct 29 17:24	7° ∡ 15'52	
evening set	16520 Nov 16 17:28	25° ∡ ¹40′10		desc. node	16521 Nov 01 05:20	6° х 17'40	
inferior conj	16520 Nov 25 02:36	21° ∡ °25′28	-3°23'31	inferior conj	16521 Nov 06 10:23	2° ҂ ¹40′08	-1°40'58
minimum elong	16520 Nov 24 18:22	21° ∡ ³39'37		minimum elong	16521 Nov 06 06:28	2° ∡ ¹48'00	
min. Earth dist.	16520 Nov 27 22:22	19° ∡ ¹29'06	0.56212 AU	min. Earth dist.	16521 Nov 09 16:04	0° ⊼ 04'44	0.58170 AU
morning rise	16520 Dec 02 16:38	16° × 46'58	3.50212110	Zartii dist.	16521 Nov 09 18:32	30°RM	5.55170710
direct	16520 Dec 08 10:41	15° × 29'37		morning rise	16521 Nov 13 16:05	27°M24'50	
anoci	10220 200 00 10.41	10 🔨 4731		morning mac	10021110110 10.00	2 / 11024 JU	
morning may al		220.7/12/10	25050112	direct	16521 Nov. 20, 00:24	250m 40110	
morning max el	16520 Dec 22 13:32 16520 Dec 29 01:17	22° メ 42'40 0°る	25°58'12	direct	16521 Nov 20 00:24 16521 Nov 30 13:28	25° ጤ 40'19 0° <i>ጃ</i>	

morning max el	16521 Dec 04 06:51	3° ∡ 14'55	27°14'49	morning rise	16522 Oct 26 11:02	8°M55'06	
	16521 Dec 23 16:16	0° ろ		direct	16522 Nov 02 02:39	6°M46'30	
asc. node	16521 Dec 26 18:53	5° る 37'25		morning max el	16522 Nov 16 08:11	14°M36'05	27°54'20
morning set	16522 Jan 03 21:04	21°る53'01			16522 Nov 28 19:33	0° ∡ ¹	
	16522 Jan 07 14:15	0° ≈		asc. node	16522 Dec 13 15:56	25° ∡ 108′27	
	16522 I 10 16 50	(057127	1027144	. ,	16522 Dec 16 03:02	0°る	
superior conj	16522 Jan 10 16:59 16522 Jan 10 16:33	6°≈57'37	1°37′44 1°38′15	morning set max. Earth dist.	16522 Dec 19 01:24	6° ට 01'49 18°ට59'46	1.31087 AU
minimum elong max. Earth dist.	16522 Jan 10 16:33 16522 Jan 10 17:56	6°≈55'07 7°≈02'52	1.30983 AU	max. Earth dist.	16522 Dec 25 00:44	18 639 40	1.3108/ AU
evening rise	16522 Jan 17 12:08	21°≈57'26	1.30983 AU	superior conj	16522 Dec 26 03:59	21° る 31'41	1°32'10
evening rise	16522 Jan 21 08:59	0°) €		minimum elong	16522 Dec 26 02:35	21° る 23'48	1°32'40
desc. node	16522 Jan 28 04:46	12° ¥ 53′06		minimum ciong	16522 Dec 29 23:06	0°≈	1 32 40
dese. node	16522 Feb 08 06:32	0°Υ		evening rise	16523 Jan 01 20:33	6° ≈ 20'57	
evening max el	16522 Feb 16 16:27	9° Υ 38'52	26°56'08	V V V V V V V V V V V V V V V V V V V	16523 Jan 14 00:27	0° ∀	
retrograde	16522 Mar 02 17:41	16° Ƴ 55'01		desc. node	16523 Jan 15 01:35	1°){ 44'47	
evening set	16522 Mar 09 06:13	15° Y ′06′59		evening max el	16523 Jan 29 11:58	20°) 38'32	25°46'10
min. Earth dist.	16522 Mar 13 06:35	12° Y 26'50	0.59253 AU	retrograde	16523 Feb 12 10:26	27°) 40′28	
inferior conj	16522 Mar 16 12:02	9° Y ′53'04	-2°36'25	evening set	16523 Feb 18 09:00	26° ¥ 18'57	
minimum elong	16522 Mar 16 18:03	9° Y 41'05	2°34'09	min. Earth dist.	16523 Feb 23 00:58	23°) €39′20	0.57137 AU
morning rise	16522 Mar 24 09:32	5° Y 14'03		inferior conj	16523 Feb 25 22:33	21° ¥ 39′52	-4°08'06
asc. node	16522 Mar 24 16:41	5° Y 10'03		minimum elong	16523 Feb 26 07:39	21° ¥ 24'11	4°05'06
direct	16522 Mar 26 09:00	4° Y 59'32		morning rise	16523 Mar 06 09:20	17°) €22'08	
morning max el	16522 Apr 03 00:56	8° Y 47'57	18°11'06	direct	16523 Mar 08 08:50	17° ∺ 10'01	
	16522 Apr 16 18:17	$0^{\circ}S$		asc. node	16523 Mar 11 13:56	17°) 43′44	
morning set	16522 Apr 18 15:56	3° 8 33'10		morning max el	16523 Mar 17 05:58	21°) 31'38	18°53'13
desc. node	16522 Apr 26 05:48	17° 8 38'31			16523 Mar 23 18:54	0° Υ	
				morning set	16523 Apr 02 13:27	17° Y ′48′26	
superior conj	16522 Apr 28 09:54	21° 8 34'13			16523 Apr 08 19:14	0°B	
minimum elong	16522 Apr 28 08:26	21° 8 27'39	0°18'15				
P. d. F.	16522 May 03 04:52	0°П	1 41500 411	superior conj	16523 Apr 11 04:40	4° 8 34'30	
max. Earth dist.	16522 May 06 00:17		1.41589 AU	minimum elong	16523 Apr 11 05:42	4° 8 39'23	0°15'43
evening rise	16522 May 10 21:17	12° Ⅱ 50'06 0° ©		behind sun begin behind sun end	16523 Apr 11 04:35	4° 8 34'08 4° 8 44'39	
evening max el	16522 May 21 22:33 16522 Jun 13 14:43	29° © 43'36	22°52'59	desc. node	16523 Apr 11 06:48	8° 8 10'04	
evening max er	16522 Jun 13 14.43	29 3 43 36	22 32 39	max. Earth dist.	16523 Apr 13 02:34 16523 Apr 18 07:19	17° 8 36'14	1.39338 AU
asc. node	16522 Jun 20 15:00	4° Ω 58'48		evening rise	16523 Apr 22 04:12	24° 8 18'57	1.57556 AC
retrograde	16522 Jun 23 19:04	5° Ω 41'36		evening rise	16523 Apr 25 13:47	0°П	
evening set	16522 Jun 28 19:39	3° Ω 33'49			16523 May 15 16:35	0°©	
	16522 Jul 02 01:06	30° ₹ 5		evening max el	16523 May 27 04:44	13° © 39'29	24°14'36
inferior conj	16522 Jul 04 02:47	27° © 10'57	3°01'22	asc. node	16523 Jun 07 11:59	20°517'04	
minimum elong	16522 Jul 04 01:46	27°514'27	3°00'42	retrograde	16523 Jun 07 12:36	20°917'05	
min. Earth dist.	16522 Jul 03 18:53	27° © 38'23	0.69166 AU	evening set	16523 Jun 13 00:53	17° 9 56'25	
morning rise	16522 Jul 09 07:47	21° © 00'10		min. Earth dist.	16523 Jun 17 14:52	12° © 38'41	0.68783 AU
direct	16522 Jul 13 18:38	19° © 11'01		inferior conj	16523 Jun 18 11:49	11° © 27'51	2°44'21
morning max el	16522 Jul 22 11:08	24° © 12'09	21°14'24	minimum elong	16523 Jun 18 10:05	11° © 33'45	2°43'25
desc. node	16522 Jul 23 05:06	24° © 57'57		morning rise	16523 Jun 23 19:21	5° 5 26'13	
	16522 Jul 27 14:06	0 \circ Ω		direct	16523 Jun 27 18:31	3° 9 56'34	
	16522 Aug 17 16:03	0° m/y		morning max el	16523 Jul 05 09:30	8°512'40	20°01'06
morning set	16522 Aug 22 10:54	7° Mp 24'14		desc. node	16523 Jul 10 02:16	13° © 32'45	
max. Earth dist.	16522 Aug 29 12:40	•	1.42928 AU		16523 Jul 21 20:49	0° N	
	16522 Sep 05 07:54	0∘ ⊽		morning set	16523 Aug 01 17:22	16° Ω 23'20	
	16522 9 05 10:46	00 0 50124	1924/20	F4h 4:-4	16523 Aug 10 11:25	0°M) 2°M>20147	1 44640 ATT
superior conj	16522 Sep 05 19:46	0° £ 50′24		max. Earth dist.	16523 Aug 12 01:32	2*11/3047	1.44640 AU
minimum elong asc. node	16522 Sep 06 02:42 16522 Sep 16 15:36	1° £ 20'00 19° £ 51'55	1 23 28	superior conj	16523 Aug 17 11:58	11° m)13'50	1955!10
evening rise	16522 Sep 17 07:44	21° ⊆ 04'22		minimum elong	16523 Aug 17 11:38	11° mg 45'22	
evening rise	16522 Sep 22 07:46	0°M		minimum ciong	16523 Aug 28 18:52	0° ي	1 34 40
evening max el	16522 Oct 03 12:30	16°M30'53	18°03'40	evening rise	16523 Aug 30 18:22	ა _ 3° ჲ 22'14	
retrograde	16522 Oct 10 08:24	20°M01'41	10 03 10	asc. node	16523 Sep 03 12:19	9° Ω 45'36	
evening set	16522 Oct 12 15:15	19°M38'15		evening max el	16523 Sep 17 03:10	29° ≏ 51'36	18°03'04
desc. node	16522 Oct 19 02:33	15°M10'37		<i>5</i> • • • • • • • • • • • • • • • • •	16523 Sep 17 06:36	0° M	
inferior conj	16522 Oct 19 15:02	14°M41'39	-0°09'55	retrograde	16523 Sep 23 13:07	3° ™ 12'36	
minimum elong	16522 Oct 19 14:43	14°M42'24		evening set	16523 Sep 26 04:11	2°M37'24	
transit middle	16522 Oct 19 14:43	14°M42'24	0°09'24		16523 Sep 29 22:04	30° Ŗ <u>Ω</u>	
transit begin	16522 Oct 19 12:01	14°M48'40		inferior conj	16523 Oct 02 12:57	27° ≏ 22'14	1°02'43
transit end	16522 Oct 19 17:25	14° M 36'07		minimum elong	16523 Oct 02 14:37	27° ≏ 17'49	1°02'20
min. Earth dist.	16522 Oct 22 18:48	11°M46'15	0.60428 AU	min. Earth dist.	16523 Oct 05 07:33	24° ≏ 26'54	0.62705 AU

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16525 Aug 24 04:50

30°R, M)

16524 Sep 09 03:06

16°**£**05'18

evening set

	16525 4 20 21 05	2.40 m. 00140	2022125		16526 4 00 1651	120% 50122	
inferior conj	16525 Aug 29 21:05	24° m 09'40	2°33'35	evening set	16526 Aug 08 16:51	13° m 59'33	2054125
minimum elong	16525 Aug 29 23:08	24° Mp 03'06	2°33'02	inferior conj	16526 Aug 14 00:38	8° Mp 02'18	2°56'25
min. Earth dist.	16525 Aug 31 13:21	22° Mp 01'59	0.66550 AU	minimum elong	16526 Aug 14 02:00	7° m 57'43	2°55'58
morning rise	16525 Sep 04 13:09	17° Mp 42'40		min. Earth dist.	16526 Aug 15 03:02	6° Mg 33'46	0.67894 AU
desc. node	16525 Sep 08 18:24	15° m 21'10		morning rise	16526 Aug 19 10:37	1° m/35'57	
direct	16525 Sep 10 17:10	15° Mp 06'21	0.001.5151		16526 Aug 21 16:49	30°R€	
morning max el	16525 Sep 23 14:09	22° m/44'55	26°17'51	direct	16526 Aug 25 04:20	29° Ω 06'19	
	16525 Sep 30 00:12	ია ო		desc. node	16526 Aug 26 15:43	29° Ω 15′00	
	16525 Oct 20 11:29	0° M ₊			16526 Aug 28 23:00	0° ™	
morning set	16525 Oct 29 11:38	15°M55'31		morning max el	16526 Sep 06 01:13	6° m 12'35	24°57'54
max. Earth dist.	16525 Nov 02 06:56	23°M11'32	1.34759 AU		16526 Sep 24 13:07	0∘ ত	
asc. node	16525 Nov 03 06:45	25°M08'28		morning set	16526 Oct 11 19:25	27° ≏ 58'23	
	16525 Nov 05 17:02	0° ∡ ¹			16526 Oct 12 22:43	0° M	
				max. Earth dist.	16526 Oct 15 07:45	4° M 18'48	1.36960 AU
superior conj	16525 Nov 07 14:35	3° ∡ ′52'43	0°38'27	asc. node	16526 Oct 21 03:35	15°M21'03	
minimum elong	16525 Nov 07 12:38	3° ∡ ′42'42	0°38'38				
evening rise	16525 Nov 15 02:29	19° ∡ °34′03		superior conj	16526 Oct 22 02:13	17° M 11'47	0°08'28
	16525 Nov 20 05:48	0°ಕ		minimum elong	16526 Oct 22 01:40	17° M ₀09'03	0°08'46
evening max el	16525 Dec 04 03:13	21° る 00'45	20°52'23	behind sun begin	16526 Oct 21 20:08	16° ጤ 41'55	
desc. node	16525 Dec 05 16:22	22° る 26'38		behind sun end	16526 Oct 22 07:11	17° M 36'13	
retrograde	16525 Dec 15 14:26	26° る 41'39			16526 Oct 28 11:24	0° ∡ ¹	
evening set	16525 Dec 18 04:31	26° る 25'36		evening rise	16526 Oct 30 07:28	3° ∡ ¹43'18	
inferior conj	16525 Dec 26 22:43	22° る 34'16	-5°37'59		16526 Nov 14 14:59	0°ಕ	
minimum elong	16525 Dec 26 15:00	22° る 45'17	5°36'09	evening max el	16526 Nov 16 11:09	2° る 00'24	19°36'55
min. Earth dist.	16525 Dec 27 22:46	21° る 59'51	0.54456 AU	desc. node	16526 Nov 22 13:26	6°る13'28	
morning rise	16526 Jan 04 01:28	18° ප් 40'16		retrograde	16526 Nov 26 06:58	6° る 55'08	
direct	16526 Jan 08 08:19	18° ට 00'42		evening set	16526 Nov 28 06:48	6° る 43'57	
morning max el	16526 Jan 21 13:30	24°る28'42	23°11'42	inferior conj	16526 Dec 06 22:34	2° る 40'32	-4°20'52
C	16526 Jan 26 12:51	0° ≈		minimum elong	16526 Dec 06 12:45	2° る 56'04	4°17'14
asc. node	16526 Jan 30 05:45	5° ≈ 05'37		min. Earth dist.	16526 Dec 09 06:24	1° る 12'18	0.55347 AU
	16526 Feb 12 19:06	0° ∀			16526 Dec 11 07:09	30°R. ✓	
morning set	16526 Feb 13 15:10	1° ¥ 46'38		morning rise	16526 Dec 14 16:58	28° × 722'12	
morning sec	10020100 10 10:10	1 /(.050		direct	16526 Dec 20 00:15	27°×719'29	
superior conj	16526 Feb 20 12:50	16° ¥ 42'10	1°24'04		16526 Dec 28 11:01	0°ਰ	
minimum elong	16526 Feb 20 14:53	16° ¥ 53'12		morning max el	16527 Jan 02 21:37	⁰ ਠ 4°ਠ17'56	25°01'07
max. Earth dist.	16526 Feb 23 17:34	23°\(\frac{1}{3}\)30'02	1.33217 AU	asc. node	16527 Jan 17 02:58	23°る09'48	23 01 07
max. Latin dist.	16526 Feb 26 21:22	0° Υ	1.55217710	ase. Houe	16527 Jan 20 23:46	0° ≈	
avanina riaa	16526 Feb 28 10:29	3° Υ 05'20		mamina aat	16527 Jan 29 03:06	0 ∞ 16° ≈ 26'49	
evening rise desc. node	16526 Mar 03 16:45	9° Υ 23'16		morning set	16527 Feb 04 07:04	10 ≈ 2049 0° ∺	
desc. node	16526 Mar 15 15:52	9 1 23 10 0° 8			1032/ Feb 04 07.04	0 70	
			27910/29		1.6507 E-L 04 20.51	1° ¥ 16'04	1024110
evening max el	16526 Apr 03 21:13	24° 8 52'38	2/1938	superior conj	16527 Feb 04 20:51		1°34'10
. 1	16526 Apr 10 05:37	0°II		minimum elong	16527 Feb 04 22:03	1°) €22'41	1°34'27
retrograde	16526 Apr 17 12:18	2° Ⅱ 26'05		max. Earth dist.	16527 Feb 06 18:27	5°) €26'21	1.31948 AU
evening set	16526 Apr 24 04:15	29° 8 56'30		evening rise	16527 Feb 12 04:39	16°) ₹57'36	
	16526 Apr 24 02:23	30°R8	0.64060.433	desc. node	16527 Feb 18 13:29	29°) €25'26	
min. Earth dist.	16526 Apr 28 00:23	26° 8 22'58	0.64860 AU		16527 Feb 18 20:57	0° Υ	
asc. node	16526 Apr 28 03:19	26° 8 15'08	00.42127		16527 Mar 10 05:22	0°8	27027140
inferior conj	16526 Apr 30 12:10	23° 8 39'06	0°43'37	evening max el	16527 Mar 17 08:52	7° 8 55'32	27°36'48
minimum elong	16526 Apr 30 11:00	23° 8 42'18	0°42'44	retrograde	16527 Mar 31 06:58	15° 8 26'03	
morning rise	16526 May 06 19:43	18° 8 13'06		evening set	16527 Apr 07 02:08	13° 8 07'13	
direct	16526 May 09 12:13	17° 8 35'18		min. Earth dist.	16527 Apr 10 20:25	10° 8 00'47	0.62808 AU
morning max el	16526 May 15 19:28	20° 8 50'06	17°54'13	inferior conj	16527 Apr 13 18:49	7° 8 08'12	
	16526 May 22 22:31	0°II		minimum elong	16527 Apr 13 19:36	7° 8 06'17	0°23'36
desc. node	16526 May 30 17:26	12° Ⅲ 30′01		asc. node	16527 Apr 15 00:33	5° 8 56'10	
morning set	16526 Jun 02 10:07	16° Ⅱ 57'47		morning rise	16527 Apr 20 15:53	1° 8 58'07	
	16526 Jun 10 08:37	0 \circ		direct	16527 Apr 23 00:18	1° 8 32'03	
				morning max el	16527 Apr 29 13:06	4° 8 50'44	17°46'10
superior conj	16526 Jun 16 08:42	9° © 38'27		morning set	16527 May 15 17:05	29° 8 29'46	
minimum elong	16526 Jun 16 00:14	9° 5 04'47			16527 May 16 00:03	Π °0	
max. Earth dist.	16526 Jun 20 11:37		1.45612 AU	desc. node	16527 May 17 14:21	2° Ⅱ 46′15	
	16526 Jun 29 09:46	0 $^{\circ}$ Ω					
evening rise	16526 Jul 02 08:05	4° Ω 29'40		superior conj	16527 May 27 20:35	20° Ⅱ 11′03	-1°17'05
greatest brilliancy	16526 Jul 16 16:21	26° Ω 02'47	-0.6m	minimum elong	16527 May 27 13:33	19° Ⅱ 42'00	1°16'46
	16526 Jul 19 10:42	0° m)			16527 Jun 02 21:24	0 \circ \odot	
asc. node	16526 Jul 25 02:38	7° m 29'51		max. Earth dist.	16527 Jun 03 05:31	0° © 32'29	1.44487 AU
evening max el	16526 Jul 28 11:32	11°M)14'46	19°46'02	evening rise	16527 Jun 11 18:58	13° 9 57'07	
retrograde	16526 Aug 04 21:10	15° m 23'48			16527 Jun 22 10:50	0 $^{\circ}$ Ω	

	1.6505 X 1 11 11 50	250 010122	20051102		16500 1 1 00 10 11	0 2 5 1 1	
evening max el	16527 Jul 11 11:53	25° Ω 10′22	20°51'02	retrograde	16528 Jul 02 18:11	14° Ω 37'11	
asc. node	16527 Jul 11 23:28	25° Ω 38'43		evening set	16528 Jul 07 12:12	12° Ω 37'54	
retrograde	16527 Jul 19 20:12	29° Ω 57'55		inferior conj	16528 Jul 12 18:06	6° Ω 19'41	3°06'27
evening set	16527 Jul 24 02:48	28° Ω 15'38		minimum elong	16528 Jul 12 17:36	6° Ω 21'26	3°05'53
inferior conj	16527 Jul 29 08:21	22° Ω 07′13	3°06'57	min. Earth dist.	16528 Jul 12 17:37	6° Ω 21′20	0.69163 AU
minimum elong	16527 Jul 29 08:48	22° Ω 05'40	3°06'30	morning rise	16528 Jul 17 22:49	0° Ω 04'34	
min. Earth dist.	16527 Jul 29 21:10	21° Ω 22'54	0.68772 AU		16528 Jul 18 00:59	30° ₹ 5	
morning rise	16527 Aug 03 14:32	15° Ω 45'20		direct	16528 Jul 22 16:36	28° © 04'49	
direct	16527 Aug 08 20:32	13° Ω 28'36			16528 Jul 27 21:24	$0^{\circ}\Omega$	
desc. node	16527 Aug 13 13:01	14° Ω 56'17		desc. node	16528 Jul 30 10:16	2° Ω 00'33	
morning max el	16527 Aug 19 12:23	19° Ω 49'32	22020142	morning max el	16528 Aug 01 01:53	3° Ω 34'37	22°01'54
morning max er	-		23 29 43	morning max er	=		22 01 34
	16527 Aug 28 04:17	0° m)			16528 Aug 21 04:54	0° Mp	
	16527 Sep 17 16:45	0∘ ত		morning set	16528 Sep 02 18:38	19° m 19'48	
morning set	16527 Sep 23 06:47	9° ഫ 08'55		max. Earth dist.	16528 Sep 08 09:33	28° m 29'29	1.41720 AU
max. Earth dist.	16527 Sep 27 06:43	15° ≏ 58'32	1.39376 AU		16528 Sep 09 07:15	0∘ ত	
superior conj	16527 Oct 05 00:12	29° ≙ 53'34	-0°26'20	superior conj	16528 Sep 16 04:03	11° ≏ 46'51	-1°03'30
minimum elong	16527 Oct 05 02:08	0°M02'36	0°25'44	minimum elong	16528 Sep 16 09:16	12° ≏ 09'48	1°02'38
	16527 Oct 05 01:35	0° M ₊		asc. node	16528 Sep 23 21:07	25° ≗ 41'44	
asc. node	16527 Oct 08 00:23	5°M33'34			16528 Sep 26 05:02	0° M	
evening rise	16527 Oct 14 05:50	17° M -35'12		evening rise	16528 Sep 26 17:58	0°M59'51	
Č	16527 Oct 20 19:39	0° ∡ ¹		evening max el	16528 Oct 12 16:14	26°M23'24	18°12'29
evening max el	16527 Oct 30 08:46	13° х 50'34	18°43'50	overing man er	16528 Oct 18 17:07	0°×7	10 12 27
retrograde	16527 Nov 07 17:03	18° ∡ 03'51	10 45 50	retrograde	16528 Oct 19 22:33	0° ₹ 06'23	
desc. node	16527 Nov 09 10:34	17° × 53'36		retrograde		30°RM	
					16528 Oct 21 04:19		
evening set	16527 Nov 09 15:03	17° 🗷 51'18	2020121	evening set	16528 Oct 22 01:12	29°M48'07	
inferior conj	16527 Nov 17 17:43	13° ∡ ¹27'37		desc. node	16528 Oct 26 07:45	27°M33'58	
minimum elong	16527 Nov 17 11:16	13° ⋌ ¹39'29 –	2°36'26	inferior conj	16528 Oct 29 10:42	25°M02'54	
min. Earth dist.	16527 Nov 20 19:19	11° ∡ 13′00	0.56996 AU	minimum elong	16528 Oct 29 08:30	25° ™ 07'38	0°58'58
morning rise	16527 Nov 25 04:27	8° ∡ 33'43		min. Earth dist.	16528 Nov 01 16:33	22°M16'45	0.59111 AU
direct	16527 Dec 01 05:37	7° ∡ ¹04'50		morning rise	16528 Nov 05 12:25	19° M 33'13	
morning max el	16527 Dec 15 10:12	14° ∡ ¹26'42	26°34'46	direct	16528 Nov 12 00:25	17° M 38'13	
	16527 Dec 27 20:10	0°ප		morning max el	16528 Nov 26 07:13	25° M 19'37	27°36'33
asc. node	16528 Jan 04 00:09	11° る 56'11			16528 Nov 30 15:31	0° ∡ ¹	
	16528 Jan 13 02:38	0° ≈			16528 Dec 20 05:41	0° ප	
morning set	16528 Jan 13 13:33	0° ≈ 58'38		asc. node	16528 Dec 20 21:15	1° る 13'26	
Č				morning set	16528 Dec 27 20:42	15° る 17'24	
superior conj	16528 Jan 20 07:32	15° ≈ 54'13	1°38'09	Č			
minimum elong	16528 Jan 20 07:42	15° ≈ 55'08	1°38'38	superior conj	16529 Jan 03 18:56	0° ≈ 31'09	1°36'06
max. Earth dist.	16528 Jan 21 00:30		1.31188 AU	minimum elong	16529 Jan 03 18:03	0°≈26'15	
max. Latin dist.	16528 Jan 26 17:37	0° \	1.51100 AC	max. Earth dist.	16529 Jan 03 08:11	29° る 30'57	1.30961 AU
				max. Earth dist.			1.30901 AU
evening rise	16528 Jan 27 06:04	1°) €06'02			16529 Jan 03 13:22	0° ≈	
desc. node	16528 Feb 05 10:14	19°) €06'58		evening rise	16529 Jan 10 12:29	15°≈25'15	
	16528 Feb 11 20:47	0° Υ			16529 Jan 17 16:29	0° ∀	
evening max el	16528 Feb 27 16:10	20° Y 17′01	27°21'04	desc. node	16529 Jan 22 07:02	8° ∺ 20'01	
retrograde	16528 Mar 12 16:52	27° Ƴ 38'46			16529 Feb 06 21:21	0° Y	
evening set	16528 Mar 19 09:57	25° Ƴ 37'39		evening max el	16529 Feb 08 16:21	1° Ƴ 47'04	26°30'07
min. Earth dist.	16528 Mar 23 06:15	22° Y ′51′06	0.60564 AU	retrograde	16529 Feb 22 16:32	8° Y 57'29	
inferior conj	16528 Mar 26 11:13	20° Y ′05′36	-1°44'43	evening set	16529 Mar 01 00:26	7° Y 20′01	
minimum elong	16528 Mar 26 15:06	19° Ƴ 57'13	1°43'19	min. Earth dist.	16529 Mar 05 05:47	4° Y 42'16	0.58321 AU
asc. node	16528 Mar 31 21:49	16° Ƴ 05'09		inferior conj	16529 Mar 08 09:35	2° Y '21'04	-3°15'36
morning rise	16528 Apr 02 23:43	15° Ƴ 14'29		minimum elong	16529 Mar 08 17:07	2° Y ′06'58	
direct	16528 Apr 05 01:48	14° Y ′56'40			16529 Mar 11 17:46	30°₽) €	
morning max el	16528 Apr 12 04:54	18° Υ '30'37	17°56'25	morning rise	16529 Mar 16 13:19	27°) 51'24	
morning max of	16528 Apr 20 12:44	0° 8	11 5525	direct	16529 Mar 18 12:06	27°) 38'21	
morning set	16528 Apr 27 19:09	12° 8 54'22		asc. node	16529 Mar 18 19:05	27°) 38'39	
•	-			asc. Houc		27 γ (3639	
desc. node	16528 May 03 11:13	23° 8 11'49			16529 Mar 24 17:37		10027124
	16528 May 07 07:14	Π $^{\circ}$ 0		morning max el	16529 Mar 26 15:10	1° Υ 39'09	18°26'24
	1650035 00 15 5	1077	0020126	morning set	16529 Apr 11 10:52	26° Y ′55′28	
superior conj	16528 May 08 07:55	1° Ⅱ 47'43			16529 Apr 13 01:28	0° 8	
minimum elong	16528 May 08 04:30	1° Ⅱ 32'50		desc. node	16529 Apr 20 08:01	13° 8 42'46	
max. Earth dist.	16528 May 15 19:31	14° Ⅱ 27'33	1.42773 AU				
evening rise	16528 May 21 17:27	24° Ⅱ 00'00		superior conj	16529 Apr 20 16:32	14° 8 21'57	-0°03'00
	16528 May 25 13:38	0 \circ \odot		minimum elong	16529 Apr 20 16:17	14° 8 20'48	0°03'20
	16528 Jun 15 11:18	$0^{\circ}\Omega$		behind sun begin	16529 Apr 20 09:12	13° 8 48'15	
evening max el	16528 Jun 23 06:35	9° Ω 05'03	22°06'38	behind sun end	16529 Apr 20 23:22	14° 8 53'17	
asc. node	16528 Jun 27 20:21	12° Ω 54'40		max. Earth dist.	16529 Apr 28 04:41	27° 8 42'08	1.40649 AU
		-					

evening rise	16529 Apr 29 12:59 16529 May 02 12:04	0°Щ 4°Щ57′26		evening rise	16530 Apr 14 03:47 16530 Apr 22 01:40	16° ႘ 48'33 0° Ⅱ	
evening rise	16529 May 18 17:36	0°95			16530 May 13 04:53	0°©	
evening max el	16529 Jun 05 21:29	23° © 00'03	23°27'46	evening max el	16530 May 19 10:56	6°\$55'22	24°48'10
asc. node	16529 Jun 14 17:18	29° © 01'32		retrograde	16530 May 31 05:50	13° 5 47'56	
retrograde	16529 Jun 16 13:49	29° © 16'11		asc. node	16530 Jun 01 14:18	13° 5 640'19	
evening set	16529 Jun 21 19:27	27° © 02'15		evening set	16530 Jun 05 22:52	11° © 22'56	
min. Earth dist.	16529 Jun 26 14:24	21° © 22'59	0.69063 AU	min. Earth dist.	16530 Jun 10 09:25	6° © 20'54	0.68470 AU
inferior conj	16529 Jun 27 03:56	20° © 36'22	2°55'27	inferior conj	16530 Jun 11 11:58	4° 9 52'42	2°33'52
minimum elong	16529 Jun 27 02:35	20°5541'01	2°54'40	minimum elong	16530 Jun 11 10:00	4°959'14	2°32'51
morning rise	16529 Jul 02 09:43	14°9529'27			16530 Jun 15 14:21	30°RⅡ	
direct	16529 Jul 06 15:26	12° © 48'47 17° © 29'46	20°41'39	morning rise direct	16530 Jun 16 21:22 16530 Jun 20 15:39	28°Ⅲ55'11 27°Ⅲ33'58	
morning max el desc. node	16529 Jul 14 20:32 16529 Jul 17 07:27	20°507'18	20 41 39	direct	16530 Jun 26 03:51	27 п ээ эв	
desc. node	16529 Jul 25 00:41	20 3 0/18 0° Ω		morning max el	16530 Jun 27 22:01	1° 9 34'47	19°34'07
morning set	16529 Aug 13 08:53	28° Ω 37'17		desc. node	16530 Jul 04 04:37	8°959'58	17 3107
	16529 Aug 14 06:14	0° m)		greatest brilliancy	16530 Jul 10 17:31	18°9512'40	-0.6m
max. Earth dist.	16529 Aug 21 18:23	-	1.43724 AU	,	16530 Jul 18 14:36	$0^{\circ}\Omega$	
	Č	•		morning set	16530 Jul 23 13:16	7° Ω 32'48	
superior conj	16529 Aug 28 09:45	22° Mp 43'23	-1°38'32	max. Earth dist.	16530 Aug 04 09:02	25° Ω 54'21	1.45177 AU
minimum elong	16529 Aug 28 17:32	23° m 15'51	1°37'50		16530 Aug 06 23:12	0° m	
	16529 Sep 01 17:17	0∘ 亚					
evening rise	16529 Sep 09 15:25	13° ≏ 45'50		superior conj	16530 Aug 08 16:14	2°M/43'15	
asc. node	16529 Sep 10 17:49	15° ≏ 41'52		minimum elong	16530 Aug 08 22:49	3°m,09'33	2°04'38
	16529 Sep 19 03:02	0° M ₊		evening rise	16530 Aug 22 16:54	25° m/39'53	
evening max el	16529 Sep 26 05:23	9°M29'18	18°01'09		16530 Aug 25 07:11	0∘ ʊ	
retrograde	16529 Oct 02 20:02	12°M54'38		asc. node	16530 Aug 28 14:33	5° Ω 29'48	1,000,012,4
evening set	16529 Oct 05 06:08	12°M26'45 7°M22'00	0°23'14	evening max el	16530 Sep 09 20:22 16530 Sep 16 05:06	22° £ 58'54 26° £ 19'44	18°08'24
inferior conj minimum elong	16529 Oct 11 23:11 16529 Oct 11 23:54	7°M20'14	0°23'16	retrograde evening set	16530 Sep 18 03:06 16530 Sep 18 23:49	26 ≥ 1944 25° ♀ 38'44	
desc. node	16529 Oct 11 23:34 16529 Oct 13 04:58	6°M08'01	0 23 10	inferior conj	16530 Sep 18 23:49 16530 Sep 25 03:13	23 ⊆ 36 44 20° ⊆ 16'49	1°27'41
min. Earth dist.	16529 Oct 14 23:42	4°M24'01	0.61403 AU	minimum elong	16530 Sep 25 05:17	20° ⊆ 11'04	1°27'09
morning rise	16529 Oct 18 14:46	1°M24'25	0.01403710	min. Earth dist.	16530 Sep 27 16:52	17° ≏ 26'40	0.63623 AU
	16529 Oct 21 03:35	30°R Ω		desc. node	16530 Sep 30 02:13	15° Ω 04'46	
direct	16529 Oct 25 07:16	29° ჲ 07'22		morning rise	16530 Oct 01 08:45	14° ≏ 01'25	
	16529 Oct 29 15:55	0° M		direct	16530 Oct 07 23:54	11° ≏ 29'58	
morning max el	16529 Nov 08 11:39	7°ML02'13	27°59'10	morning max el	16530 Oct 21 20:44	19° ≏ 28'16	27°43'43
	16529 Nov 25 23:15	0° ∡ ¹			16530 Oct 30 20:45	0° M	
asc. node	16529 Dec 07 18:16	20° ₹ '52'58			16530 Nov 18 22:45	0° ∡ ¹	
morning set	16529 Dec 11 22:29	29° ∡ 17'51		asc. node	16530 Nov 24 15:14	10° ∡ ¹48'12	
	16529 Dec 12 06:36	0°ಕ		morning set	16530 Nov 25 16:38	12° ∡ ′54'44	
max. Earth dist.	16529 Dec 17 13:34	11° る 22'30	1.31296 AU	max. Earth dist.	16530 Nov 30 12:58	22° ∡ 56′21	1.32205 AU
superior conj	16529 Dec 19 05:11	15° る 01'37	1°27'59	superior conj	16530 Dec 03 12:21	29° х 20′30	1°13'42
minimum elong	16529 Dec 19 03:26	14° る 51'51	1°28'26	minimum elong	16530 Dec 03 10:03	29° ₰ 07'58	1°13'59
evening rise	16529 Dec 25 21:57	29° る 50'24			16530 Dec 03 19:36	0°ಕ	
	16529 Dec 25 23:43	0° ≈		evening rise	16530 Dec 10 08:40	14° る 17'32	
desc. node	16530 Jan 09 03:52	26°≈53'35			16530 Dec 18 02:18	0° ≈	
	16530 Jan 11 04:35	0°) {	25005155	desc. node	16530 Dec 27 00:45	14° ≈ 33'48	22026154
evening max el	16530 Jan 21 08:02	12°) 24'34 19°) 20'46	25°07'55	evening max el	16531 Jan 02 18:00	22°≈26'26	23°26'54
retrograde	16530 Feb 04 04:07 16530 Feb 09 18:02	19° H 20'46 18° H 10'50		retrograde	16531 Jan 16 01:54 16531 Jan 20 13:16	29°≈01'55 28°≈18'41	
evening set min. Earth dist.	16530 Feb 14 20:32	18 ₭ 1030 15° ₭ 26'32	0.56347 AU	evening set min. Earth dist.	16531 Jan 27 05:01	25°≈09'50	0.54948 AU
inferior conj	16530 Feb 17 10:57	13°) ₹45′24		inferior conj	16531 Jan 28 16:04	23 ≈ 09 30 24° ≈ 18'56	
minimum elong	16530 Feb 17 20:27	13° ¥ 29'59	4°41'28	minimum elong	16531 Jan 28 22:01	24°≈10'19	5°46'33
morning rise	16530 Feb 26 01:33	9° ¥ 36'47	20	morning rise	16531 Feb 06 08:08	20°≈26'12	0 .033
direct	16530 Feb 28 03:16	9°) €24'33		direct	16531 Feb 08 23:39	20° ≈ 09'13	
asc. node	16530 Mar 05 16:22	10° ¥ 58'29		morning max el	16531 Feb 20 02:11	25° ≈ 32'11	20°32'46
morning max el	16530 Mar 09 15:35	14°) €03'09	19°18'00	asc. node	16531 Feb 20 13:39	26° ≈ 00'32	
-	16530 Mar 20 15:05	0° Υ			16531 Feb 24 00:50	0°) €	
morning set	16530 Mar 26 11:53	11° Y 19'12		morning set	16531 Mar 10 18:55	25° ¥ 56′24	
					16531 Mar 12 18:01	0° Y	
superior conj	16530 Apr 03 17:59	27° Ƴ 40'09	0°29'07				
minimum elong	16530 Apr 03 19:41	27° Y ′48′22	0°28'36	superior conj	16531 Mar 18 08:06	11° Υ '31'00	0°55'25
	16530 Apr 04 23:02	0°8		minimum elong	16531 Mar 18 10:34	11° Υ 43'31	0°54'57
desc. node	16530 Apr 07 04:47	4° 8 14'34	1 202 12 1==	max. Earth dist.	16531 Mar 23 17:57	22° Y 13'08	1.36124 AU
max. Earth dist.	16530 Apr 10 10:32	10° 8 12'38	1.38349 AU	desc. node	16531 Mar 25 01:32	24° Y 43'38	

	16521 M 27 14 02	2000025110			16522 M 02 00 05	0° Υ	
evening rise	16531 Mar 27 14:02	29° Y 25'19		n at it a	16532 Mar 03 08:05		1 24165 444
	16531 Mar 27 21:37	0° B		max. Earth dist.	16532 Mar 05 07:22	4°Υ03'09	1.34165 AU
	16531 Apr 15 07:13	0°II	2 (00 012 0	evening rise	16532 Mar 09 15:16	12° Y 37'54	
evening max el	16531 May 02 00:36	20° Ⅱ 48'13	26°00'30	desc. node	16532 Mar 10 22:17	15° ℃ 06'01	
retrograde	16531 May 14 17:09	28° Ⅱ 05'21			16532 Mar 19 06:32	0°B	
asc. node	16531 May 19 11:23	26° Ⅱ 35'39			16532 Apr 09 08:10	0°II	
evening set	16531 May 20 20:44	25° Ⅲ 33'57		evening max el	16532 Apr 13 14:29	4° Ⅱ 30'43	26°57'08
min. Earth dist.	16531 May 25 00:30	21° ∐ 08'13	0.67405 AU	retrograde	16532 Apr 26 22:43	12° Ⅱ 00'39	
inferior conj	16531 May 26 16:10	19° Ⅱ 03'55	2°01'03	evening set	16532 May 03 11:08	9° Ⅱ 28'27	
minimum elong	16531 May 26 13:59	19° Ⅱ 10'49	1°59'51	asc. node	16532 May 05 08:32	7° Ⅱ 47'30	
morning rise	16531 Jun 01 07:55	13° Ⅱ 17'14		min. Earth dist.	16532 May 07 09:35	5° Ⅱ 37'01	0.65903 AU
direct	16531 Jun 04 15:34	12° Ⅱ 14'30		inferior conj	16532 May 09 14:15	3° Ⅱ 04'39	1°15'50
morning max el	16531 Jun 11 06:31	15° Ⅱ 47'12	18°42'06	minimum elong	16532 May 09 12:28	3° Ⅱ 09'51	1°14'43
desc. node	16531 Jun 21 01:43	28° Ⅱ 26′25			16532 May 12 09:47	30° ₹ 8	
	16531 Jun 22 02:51	0° ©		morning rise	16532 May 15 15:13	27° 8 30'33	
morning set	16531 Jul 03 03:23	16° © 59'48		direct	16532 May 18 13:03	26° 8 44'20	
	16531 Jul 11 11:40	$0^{\circ}\Omega$			16532 May 24 19:53	Π $^{\circ}0$	
max. Earth dist.	16531 Jul 18 04:14	10° Ω 25'18	1.45942 AU	morning max el	16532 May 24 20:38	0° Ⅱ 01'49	18°06'49
				desc. node	16532 Jun 06 22:46	18° Ⅲ 17'40	
superior conj	16531 Jul 19 05:21	12° Ω 03'17	-2°14'26	morning set	16532 Jun 12 17:49	27° Ⅲ 37'37	
minimum elong	16531 Jul 19 05:21	12° Ω 03′18	2°14'55	-	16532 Jun 14 05:07	0°©	
	16531 Jul 30 15:21	o∘ mp					
evening rise	16531 Aug 03 17:55	6° mp 31'41		superior conj	16532 Jun 27 15:36	21°521'58	-2°04'09
greatest brilliancy	16531 Aug 09 17:57	16° m) 05'19	-0.9m	minimum elong	16532 Jun 27 08:41	20° © 54'52	2°04'21
asc. node	16531 Aug 15 11:18	25° m/00'00		max. Earth dist.	16532 Jun 30 01:13	25° © 07'19	1.45949 AU
	16531 Aug 18 21:32	0∘ <u>v</u>			16532 Jul 03 04:22	$0^{\circ}\Omega$	
evening max el	16531 Aug 24 09:58	6° ₽ 43'27	18°33'15	evening rise	16532 Jul 13 19:05	16° Ω 25'57	
retrograde	16531 Aug 30 21:45	10° £ 12'50	10 33 10	evening rise	16532 Jul 22 15:14	0° m)	
evening set	16531 Sep 03 01:46	9° ₽ 16'05		greatest brilliancy	16532 Jul 25 18:22	4° m) 42'55	-0.7m
inferior conj	16531 Sep 08 18:56	3° ₽ 39'03	2°14'07	asc. node	16532 Aug 01 08:05	14° Mp 06'09	0.7111
minimum elong	16531 Sep 08 21:13	3° ₽ 32'06	2°13'30	evening max el	16532 Aug 06 19:33	20° m/36'08	19°14'53
min. Earth dist.	16531 Sep 10 19:11	1° ⊆ 12'40	0.65591 AU	retrograde	16532 Aug 13 18:54	24° m) 27'14	17 1433
iiiii. Lattii dist.	16531 Sep 10 19:11 16531 Sep 11 20:19	30°R.M)	0.03371 AO	evening set	16532 Aug 17 08:44	23° m) 13'06	
morning rise	16531 Sep 14 15:27	27° Mp 14'28		inferior conj	16532 Aug 22 19:01	17° m) 22'36	2°44'52
desc. node	1	25° m 39'28		=	-	17° m) 16'42	
	16531 Sep 16 23:32			minimum elong min. Earth dist.	16532 Aug 22 20:50	17 my 10 42 15° my 31'06	0.67181 AU
direct	16531 Sep 21 00:34	24° m/37'39			16532 Aug 24 05:16	~	0.07181 AU
	16531 Oct 01 17:55	0∘ ত	26056116	morning rise	16532 Aug 28 08:16	10° TD 55'30	
morning max el	16531 Oct 04 07:56	2° ≏ 26'47	26°56'16	desc. node	16532 Sep 02 20:50	8° Mp 22'20	
	16531 Oct 25 02:27	0°M,		direct	16532 Sep 03 08:06	8° Mp 21'28	25045120
morning set	16531 Nov 09 00:12	26°M00'39		morning max el	16532 Sep 15 19:29	15° m 47'23	25°45'28
_	16531 Nov 11 01:23	0° ∡ ¹			16532 Sep 27 13:41	0∘ ⊽	
asc. node	16531 Nov 11 12:09	0° ∡ ′53′13			16532 Oct 16 23:12	0°M	
max. Earth dist.	16531 Nov 13 03:28	4° ⋌ ¹09'59	1.33683 AU	morning set	16532 Oct 21 17:48	8°M28'57	
				max. Earth dist.	16532 Oct 25 08:46	15°M14'27	1.35663 AU
superior conj	16531 Nov 17 14:07	13° ₹ ′21′02 −	0°53'08	asc. node	16532 Oct 28 09:02	21° M 04'07	
minimum elong	16531 Nov 17 11:49	13° ⋌ ¹08'55 _	0°53'18				
evening rise	16531 Nov 24 18:47	28° ∡ ⁴41'18		superior conj	16532 Oct 31 07:50	26° ™ 57'10	0°26'24
	16531 Nov 25 09:40	0°ಕ		minimum elong	16532 Oct 31 06:20	26° ™ 49'39	0°26'37
	16531 Dec 12 23:46	0° ≈			16532 Nov 01 19:48	0° ∡ ¹	
desc. node	16531 Dec 13 21:43	1° ≈ 01'12		evening rise	16532 Nov 08 02:19	12° ∡ ′57'33	
evening max el	16531 Dec 15 06:06	2° ≈ 24'40	21°44'59		16532 Nov 16 21:31	0°ಕ	
retrograde	16531 Dec 27 12:49	8° ≈ 28'43		evening max el	16532 Nov 26 05:24	12° ප් 55'11	20°17'27
evening set	16531 Dec 30 17:58	8° ≈ 05'28		desc. node	16532 Nov 29 18:43	15° る 53'10	
inferior conj	16532 Jan 08 08:05	4° ≈ 15'43	-5°59'28	retrograde	16532 Dec 06 23:56	18° る 16'53	
minimum elong	16532 Jan 08 04:56	4° ≈ 20'07	5°58'45	evening set	16532 Dec 09 06:14	18° る 03'48	
min. Earth dist.	16532 Jan 08 10:08	4°≈12'52	0.54369 AU	inferior conj	16532 Dec 18 00:54	14° る 08'13	
morning rise	16532 Jan 16 16:33	0° ≈ 27'46		minimum elong	16532 Dec 17 15:21	14° る 22'22	
	16532 Jan 19 13:01	30°Ŗる		min. Earth dist.	16532 Dec 19 15:43		0.54730 AU
direct	16532 Jan 20 08:18	29° る 58'32		morning rise	16532 Dec 25 23:53	10° る 06'12	
	16532 Jan 21 03:28	0° ≈		direct	16532 Dec 30 17:43	9° る 17'36	
morning max el	16532 Feb 01 21:40	6° ≈ 04'13	22°09'27	morning max el	16533 Jan 13 07:15	15° る 58'55	23°59'06
asc. node	16532 Feb 07 10:56	12° ≈ 27′28		asc. node	16533 Jan 24 08:11	0° ≈ 00'43	
	16532 Feb 18 00:12	0° ∀			16533 Jan 24 08:00	0° ≈	
morning set	16532 Feb 23 05:29	10°) 39'35		morning set	16533 Feb 06 17:26	25° ≈ 22'22	
					16533 Feb 08 20:44	0° ∀	
superior conj	16532 Mar 01 07:22	25°) 44'49	1°15'25				
minimum elong	16532 Mar 01 09:44	25° ¥ 57′20	1°15'13	superior conj	16533 Feb 13 12:53	10° ¥ 13'17	1°29'06

minimum elong	16533 Feb 13 14:36	10° ¥ 22'40	1°29'13	superior conj	16534 Jan 28 22:17	24° ≈ 49'56	1°36'36
max. Earth dist.	16533 Feb 16 04:14	15° ¥ 55'07	1.32612 AU	minimum elong	16534 Jan 28 23:03	24°≈54'13	1°36'59
evening rise	16533 Feb 21 04:04	26° ¥ 17'24		max. Earth dist.	16534 Jan 30 07:32	27° ≈ 54'04	1.31550 AU
3	16533 Feb 23 00:55	0° Υ			16534 Jan 31 06:25	0°) €	
desc. node	16533 Feb 25 19:00	5° Y 16'56		evening rise	16534 Feb 05 01:36	10°) 17′09	
	16533 Mar 12 15:19	0°B		desc. node	16534 Feb 12 15:44	25° ¥ 11′06	
evening max el	16533 Mar 27 03:19	17° 8 50'54	27°30'38		16534 Feb 15 08:07	0° Y	
retrograde	16533 Apr 09 21:42	25° 8 23'57			16534 Mar 08 22:01	0° 8	
evening set	16533 Apr 16 15:48	22° 8 57'47		evening max el	16534 Mar 09 13:13	0° 8 36'56	27°34'23
min. Earth dist.	16533 Apr 20 10:40	19° 8 36'52	0.64021 AU	retrograde	16534 Mar 23 13:03	8° 8 05'13	
asc. node	16533 Apr 22 05:45	17° 8 44'41		evening set	16534 Mar 30 08:05	5° 8 52'45	
inferior conj	16533 Apr 23 03:26	16° 8 47'22	0°16'55	min. Earth dist.	16534 Apr 03 02:25	2° 8 56'03	0.61862 AU
minimum elong	16533 Apr 23 02:57	16° 8 48'39	0°16'19	inferior conj	16534 Apr 06 04:27	0° 8 04'01	-0°56'23
morning rise	16533 Apr 29 16:27	11° 8 28'05		minimum elong	16534 Apr 06 06:25	29° Y 59'26	0°55'52
direct	16533 May 02 05:26	10° 8 55'38			16534 Apr 06 06:10	30° ŖƳ	
morning max el	16533 May 08 13:53	14° 8 10'20	17°48'41	asc. node	16534 Apr 09 02:57	27° Y ′28′56	
	16533 May 19 19:07	Π °0		morning rise	16534 Apr 13 07:58	25° Y ′01'58	
desc. node	16533 May 24 19:44	8° Ⅲ 26′13		direct	16534 Apr 15 13:19	24° Ƴ 39'57	
morning set	16533 May 25 11:04	9° Ⅱ 31′03		morning max el	16534 Apr 22 07:14	28° Y ′03'48	17°48'17
	16533 Jun 06 19:16	0 \circ			16534 Apr 24 02:19	0° 8	
				morning set	16534 May 08 02:52	22° 8 27'17	
superior conj	16533 Jun 07 15:12	1°520'31		desc. node	16534 May 11 16:39	28° 8 46'56	
minimum elong	16533 Jun 07 06:51	0°5546'48	1°36'55		16534 May 12 09:16	Π \circ 0	
max. Earth dist.	16533 Jun 12 20:48	9°541'27	1.45213 AU		1652434 10 12 00	120Ж20152	1001110
evening rise	16533 Jun 23 06:18	25°549'48		superior conj	16534 May 19 13:08	12° Ⅱ 20'52	
	16533 Jun 26 00:00	0° Ω		minimum elong	16534 May 19 07:34	11° Ⅲ 57'24 23° Ⅲ 52'45	
asc. node	16533 Jul 16 22:52	0° Т у 2° Т у 38'46		max. Earth dist.	16534 May 26 12:45	23°Щ32′43 0° ©	1.43819 AU
evening max el	16533 Jul 19 04:55 16533 Jul 20 23:18	4° M) 30'46	20°12'02	evening rise	16534 May 30 08:41 16534 Jun 02 20:28	5°\$28'04	
retrograde	16533 Jul 28 17:55	8° m) 55'27	20 12 02	evening rise	16534 Jun 19 07:52	0°Ω	
evening set	16533 Aug 01 18:10	7° m) 23'24		evening max el	16534 Jul 03 21:00	18° Ω 25'20	21°22'06
inferior conj	16533 Aug 07 00:39	1° m) 20'57	3°02'18	asc. node	16534 Jul 06 01:45	20°Ω26'36	21 22 00
minimum elong	16533 Aug 07 01:38	1° m) 17'35	3°01'51	retrograde	16534 Jul 12 16:46	23°Ω31'58	
min. Earth dist.	16533 Aug 07 21:09	0° Mp 11'01	0.68326 AU	evening set	16534 Jul 17 04:04	21°Ω42'25	
min. Burun uist.	16533 Aug 08 00:24	30°R Ω	0.00320110	inferior conj	16534 Jul 22 09:28	15° Ω 29'29	3°08'02
morning rise	16533 Aug 12 08:44	24°Ω56'00		minimum elong	16534 Jul 22 09:31	15° Ω 29'20	3°07'33
direct	16533 Aug 17 21:25	22° Ω 31'30		min. Earth dist.	16534 Jul 22 16:38	15° Ω 04'31	0.68999 AU
desc. node	16533 Aug 20 18:08	23° Ω 04'18		morning rise	16534 Jul 27 14:43	9° Ω 09'57	
morning max el	16533 Aug 29 06:38	29° Q 20′03	24°20'50	direct	16534 Aug 01 15:29	7° Ω 00'00	
	16533 Aug 29 22:13	0° m)		desc. node	16534 Aug 07 15:25	9° Ω 23'07	
	16533 Sep 21 08:24	0∘ 亚		morning max el	16534 Aug 11 18:27	13° Ω 00'05	22°51'41
morning set	16533 Oct 03 17:24	20° ≏ 10'42			16534 Aug 25 10:46	0° ™	
max. Earth dist.	16533 Oct 07 08:09	26° ₽ 32'39	1.37978 AU		16534 Sep 14 05:15	0∘ ⊽	
	16533 Oct 09 05:57	0° M.		morning set	16534 Sep 14 18:56	0° ჲ 56'05	
				max. Earth dist.	16534 Sep 19 07:37	8° ≏ 30'14	1.40396 AU
superior conj	16533 Oct 14 14:07	10°M01'05	-0°05'52				
minimum elong	16533 Oct 14 14:29	10°M02'51	0°05'26	superior conj	16534 Sep 27 04:54	22° ≏ 22'58	
behind sun begin	16533 Oct 14 08:00	9° ™ 31'44		minimum elong	16534 Sep 27 08:11	22° ≏ 37'55	0°41'18
behind sun end	16533 Oct 14 20:58	10° M ⋅34'03			16534 Oct 01 07:55	0° M	
asc. node	16533 Oct 15 05:52	11°ML16'58		asc. node	16534 Oct 02 02:37	1°M27'43	
evening rise	16533 Oct 23 04:52	27°M00'17		evening rise	16534 Oct 06 23:20	10°M41'16	
	16533 Oct 24 17:08	0° 🗷	10011122		16534 Oct 17 20:15	0° ⊼ ¹	10020100
evening max el	16533 Nov 08 19:25	24° 🖈 16'20	19°11'32	evening max el	16534 Oct 22 21:48	6° ₹ 25'55	18°28'00
desc. node	16533 Nov 16 15:47	28° ₹ 47'16		retrograde	16534 Oct 30 17:46	10°×724'33	
retrograde	16533 Nov 17 23:30	28° 🗷 52'49 28° 🗷 41'46		evening set desc. node	16534 Nov 01 17:12	10° х 10′07 9° х 32′56	
evening set inferior conj	16533 Nov 19 21:08 16533 Nov 28 08:16	24° x ¹ 30'14	-3°38'59	inferior conj	16534 Nov 03 12:55 16534 Nov 09 12:46	5° ∡ '37'37	-1°56'02
minimum elong	16533 Nov 27 23:30	24° × 30°14 24° × 44'59	3°35'19	minimum elong	16534 Nov 09 08:12	5° ∡ ¹46'35	1°53'40
min. Earth dist.	16533 Dec 01 01:27	22° х 40'44	0.55966 AU	min. Earth dist.	16534 Nov 12 17:50	3° × ⁴⁰ 33	0.57855 AU
morning rise	16533 Dec 05 23:24	19° х 57'04	3.22700710	morning rise	16534 Nov 16 19:48	0° ∡ 0701	0.0,000 110
direct	16533 Dec 11 14:52	18° ∡ 43'32			16534 Nov 17 18:41	30°RM	
morning max el	16533 Dec 25 16:39	25° × 1332	25°44'07	direct	16534 Nov 23 02:35	28°M47'10	
<i>5</i>	16533 Dec 29 13:50	0°궁			16534 Nov 28 13:25	0° ₹	
asc. node	16534 Jan 11 05:23	18° පි 24'18		morning max el	16534 Dec 07 08:35	6° ∡ 18'38	27°05'33
	16534 Jan 17 09:53	0° ≈		5	16534 Dec 24 22:13	8°0	
morning set	16534 Jan 22 04:57	9° ≈ 59'43		asc. node	16534 Dec 29 02:31	7° る 24'43	
-				morning set	16535 Jan 06 14:10	24° る 26'02	

	16535 Jan 09 03:34	0° ≈		max. Earth dist.	16535 Dec 27 21:41	21° ප් 54'31	1.31041 AU
superior conj	16535 Jan 13 09:29	9° ≈ 27'59	1°38'02	superior conj	16535 Dec 28 20:37	24° ろ 02'36	1°33'25
minimum elong	16535 Jan 13 09:12	9° ≈ 26'24	1°38'33	minimum elong	16535 Dec 28 19:20	23° る 55'27	
max. Earth dist.	16535 Jan 13 14:29	9° ≈ 56'04	1.31020 AU		16535 Dec 31 12:32	0° ≈	
evening rise	16535 Jan 20 05:22	24°≈30'28		evening rise	16536 Jan 04 13:19	8° ≈ 52'44	
<i>8</i> 21	16535 Jan 22 20:20	0°) €		<i>8</i>	16536 Jan 15 06:13	0° ∀	
desc. node	16535 Jan 30 12:29	14°)(41'06		desc. node	16536 Jan 17 09:16	3°) 38′21	
	16535 Feb 09 03:27	$0^{\circ}\mathbf{Y}$		evening max el	16536 Feb 01 14:33	23°){ 44'11	25°58'25
evening max el	16535 Feb 19 17:44	12° Y 36'54	27°03'43	S	16536 Feb 11 00:49	$0^{\circ}\Upsilon$	
retrograde	16535 Mar 05 19:01	19° Y ′54'32		retrograde	16536 Feb 15 13:29	0° Υ 48'03	
evening set	16535 Mar 12 08:53	18° Ƴ 03'05			16536 Feb 20 01:39	30° Ŗ ₩	
min. Earth dist.	16535 Mar 16 08:01	15° Y 21'31	0.59589 AU	evening set	16536 Feb 21 14:46	29°) 22′23	
inferior conj	16535 Mar 19 13:34	12° Y 44'14	-2°22'36	min. Earth dist.	16536 Feb 26 03:37	26°) 43'46	0.57434 AU
minimum elong	16535 Mar 19 19:01	12° Y 33'08	2°20'34	inferior conj	16536 Feb 29 03:12	24°) €38′20	-3°54'39
morning rise	16535 Mar 27 08:45	8° Y 01'55		minimum elong	16536 Feb 29 11:59	24°) €22'53	3°51'38
asc. node	16535 Mar 27 00:13	8° Y 07'42		morning rise	16536 Mar 08 12:21	20° ∺ 17'29	
direct	16535 Mar 29 08:46	7° Y 46'39		direct	16536 Mar 10 11:29	20° 米 05′12	
morning max el	16535 Apr 05 21:06	11° Y 31'05	18°06'40	asc. node	16536 Mar 12 21:31	20°) 24'44	
	16535 Apr 18 03:30	9° 8		morning max el	16536 Mar 19 03:35	24°) €21'04	18°45'34
morning set	16535 Apr 21 11:20	6° ႘ 08'40			16536 Mar 23 19:10	0 ° Υ	
desc. node	16535 Apr 28 13:30	19° 8 14'51		morning set	16536 Apr 04 07:26	20° Y 20'19	
					16536 Apr 09 06:39	9° 8	
superior conj	16535 May 01 09:55	24° 8 22'35					
minimum elong	16535 May 01 07:58	24° 8 13'55	0°23'44	superior conj	16536 Apr 13 02:09	7° 8 16'04	0°11'19
	16535 May 04 14:42	Π °0		minimum elong	16536 Apr 13 02:53	7° 8 19'31	0°10'52
max. Earth dist.	16535 May 09 00:12	7° Ⅱ 29'31	1.41905 AU	behind sun begin	16536 Apr 12 21:48	6° 8 55'40	
evening rise	16535 May 14 02:59	15° ∏ 53′05		behind sun end	16536 Apr 13 07:57	7° 8 43'19	
	16535 May 23 04:38	0.ಪ		desc. node	16536 Apr 14 10:16	9° 8 46'04	
	16535 Jun 14 08:25	0 \circ Ω		max. Earth dist.	16536 Apr 20 07:53	20° 8 25'32	1.39678 AU
evening max el	16535 Jun 16 13:54	2° Ω 20'27	22°40'54	evening rise	16536 Apr 24 06:42	27° 8 13'28	
asc. node	16535 Jun 22 22:37	7° Ω 15'24			16536 Apr 25 22:29	0°II	
retrograde	16535 Jun 26 13:51	8° Ω 11'38			16536 May 15 17:59	0.ee	
evening set	16535 Jul 01 12:45	6° Ω 06'02	2002102	evening max el	16536 May 29 04:05	16°5515'58	24°02'36
inferior conj	16535 Jul 06 19:30	29°5544'24	3°03'03	asc. node	16536 Jun 08 19:35	22°5546'59	
minimum elong	16535 Jul 06 18:37	29°547'28	3°02'25	retrograde	16536 Jun 09 07:56	22°548'06	
min. Earth dist.	16535 Jul 06 13:33	0° Ω 05'06	0.69181 AU	evening set	16536 Jun 14 18:33	20°528'59	0.60070 AII
	16535 Jul 06 15:01	30°₹©		min. Earth dist.	16536 Jun 19 09:45	15°505'48	0.68870 AU
morning rise	16535 Jul 12 00:21	23°532'27		inferior conj	16536 Jun 20 04:48	14°501'05	2°47'37
direct morning max el	16535 Jul 16 13:02 16535 Jul 25 09:41	21°540'25 26°548'39	21°26'25	minimum elong morning rise	16536 Jun 20 03:09 16536 Jun 25 11:47	14° © 06'42 7° © 58'10	2°46'44
desc. node	16535 Jul 25 12:41	26°\$56'09	21 20 23	direct	16536 Jun 29 12:40	6°\$25'39	
desc. Hode	16535 Jul 28 08:30	20 3 3009		morning max el	16536 Jul 07 07:04	10° © 47'43	20°11'14
	16535 Aug 18 22:34	0°mp		desc. node	16536 Jul 11 09:52	15°923'54	20 11 14
morning set	16535 Aug 25 20:55	עויי 10° Mp 42'21		dese. Hode	16536 Jul 22 01:29	0°Ω	
max. Earth dist.	16535 Sep 01 12:44	21° mp 23'11	1.42631 AU	morning set	16536 Aug 04 04:58	19° Ω 45'00	
max. Darur dist.	16535 Sep 06 17:00	0° ت	1.12031710	morning sec	16536 Aug 10 19:18	0° m)	
	10030 5 c p 00 17.00	~		max. Earth dist.	16536 Aug 14 00:53	5° Mp 06'46	1.44424 AU
superior conj	16535 Sep 08 23:50	3° ჲ 53'39	-1°18'58				
minimum elong	16535 Sep 09 06:22	4° ≏ 21'45		superior conj	16536 Aug 19 19:32	14° m 25'28	-1°51'10
asc. node	16535 Sep 18 23:20	21° ≏ 33'02		minimum elong	16536 Aug 20 03:28	14° m) 57'54	
evening rise	16535 Sep 20 05:51	23° Ω 51'06		Č	16536 Aug 29 03:28	0∘ <u>v</u>	
C	16535 Sep 23 15:35	0° M		evening rise	16536 Sep 01 19:29	6° Ω 16'44	
evening max el	16535 Oct 06 08:18	19°M14'43	18°05'20	asc. node	16536 Sep 04 20:03	11° ≏ 28'27	
retrograde	16535 Oct 13 06:30	22°M48'10			16536 Sep 16 16:24	0° M	
evening set	16535 Oct 15 12:15	22°M26'09		evening max el	16536 Sep 18 22:41	2°M31'38	18°01'57
desc. node	16535 Oct 21 10:07	18° M 36'07		retrograde	16536 Sep 25 09:33	5° ™ 53'25	
inferior conj	16535 Oct 22 14:30	17° ™ 32'20	-0°22'37	evening set	16536 Sep 27 23:18	5° M 20′13	
minimum elong	16535 Oct 22 13:44	17°M34'04	0°21'54	inferior conj	16536 Oct 04 10:07	0°ML07'31	0°52'53
min. Earth dist.	16535 Oct 25 19:02	14°M38'48	0.60087 AU	minimum elong	16536 Oct 04 11:34	0°M03'42	0°52'37
morning rise	16535 Oct 29 12:01	11°M50'00			16536 Oct 04 12:59	30° Ŗ Ω	
direct	16535 Nov 05 02:57	9° ™ 44'47		desc. node	16536 Oct 07 07:23	27° ≏ 08'21	
morning max el	16535 Nov 19 08:47	17°M32'03	27°50'58	min. Earth dist.	16536 Oct 07 06:19	27° ≏ 11'00	0.62374 AU
	16535 Nov 29 18:33	0° ∡ ″		morning rise	16536 Oct 10 21:22	24° ≏ 01'14	
asc. node	16535 Dec 15 23:36	26° ₹ 52'21		direct	16536 Oct 17 13:52	21° ≏ 37'24	
	16535 Dec 17 14:05	0°ප		morning max el	16536 Oct 31 15:38	29° ≏ 34'12	27°56'59
morning set	16535 Dec 21 19:17	8° る 37'10			16536 Nov 01 01:56	0°M₊	

	16536 Nov 22 18:30	0° ⊼			16537 Oct 28 07:16	0° ™	
asc. node	16536 Dec 01 20:37	16° ∡ 739'04			16537 Nov 15 07:11	0° ∡ 7	
morning set	16536 Dec 04 18:08	22° ₹ 27'59		morning set	16537 Nov 18 08:13	5° × 752'40	
D d F	16536 Dec 08 08:23	0°る	1 21 (20 4 11	asc. node	16537 Nov 18 17:35	6° ₹ 38'58	1 22760 444
max. Earth dist.	16536 Dec 10 01:11	3° る 40'06	1.31620 AU	max. Earth dist.	16537 Nov 22 21:12	15° ∡ 05'32	1.32768 AU
superior conj	16536 Dec 12 05:49	8° る 28'23	1°22'41	superior conj	16537 Nov 26 10:59	22° ∡ ³39'56	1°05'44
minimum elong	16536 Dec 12 03:46	8° る 17'07	1°23'04	minimum elong	16537 Nov 26 08:36	22° ₹ '27'08	1°05'57
evening rise	16536 Dec 18 23:33	23° る 19'10			16537 Nov 29 20:16	0°중	
Č	16536 Dec 22 03:08	0° ≈		evening rise	16537 Dec 03 10:16	7° る 45'16	
desc. node	16537 Jan 03 06:07	21° ≈ 51'04		S	16537 Dec 14 22:13	0° ≈	
	16537 Jan 09 07:59	0° ∀		desc. node	16537 Dec 21 03:02	9° ≈ 02'52	
evening max el	16537 Jan 13 03:10	4°) €03'12	24°26'08	evening max el	16537 Dec 25 12:36	13° ≈ 57'52	22°42'30
retrograde	16537 Jan 26 18:53	10° ¥ 51′20		retrograde	16538 Jan 07 11:43	20° ≈ 22'24	
evening set	16537 Jan 31 22:46	9°) 52′54		evening set	16538 Jan 11 10:03	19° ≈ 48'42	
min. Earth dist.	16537 Feb 06 15:00	7°) € 00'49	0.55668 AU	min. Earth dist.	16538 Jan 18 21:37	16° ≈ 23′21	0.54585 AU
inferior conj	16537 Feb 08 19:34	5°) 40′13	-5°15'53	inferior conj	16538 Jan 19 17:45	15° ≈ 54'53	-6°00'15
minimum elong	16537 Feb 09 04:25	5° ¥ 26'38	5°13'42	minimum elong	16538 Jan 19 20:09	15° ≈ 51'29	5°59'40
morning rise	16537 Feb 17 12:10	1°) 39′35		morning rise	16538 Jan 28 07:24	12° ≈ 06′17	
direct	16537 Feb 19 18:27	1° ∺ 26′03		direct	16538 Jan 31 08:01	11° ≈ 45′18	
asc. node	16537 Feb 27 18:49	4° ∺ 29'46		morning max el	16538 Feb 12 02:41	17° ≈ 27'03	21°11'39
morning max el	16537 Mar 01 22:31	6° ¥ 22'33	19°47'01	asc. node	16538 Feb 14 16:08	20° ≈ 10′20	
	16537 Mar 17 01:14	0° Υ			16538 Feb 21 14:59	0° ∀	
morning set	16537 Mar 19 11:24	4° Y 51′10		morning set	16538 Mar 03 20:13	19°) (31'37	
					16538 Mar 08 19:55	0 ° Υ	
superior conj	16537 Mar 27 09:31	20° Y 49'50	0°41'02				
minimum elong	16537 Mar 27 11:40	21° Y ′00'28	0°40'30	superior conj	16538 Mar 11 03:57	4° Υ 51'47	1°04'39
desc. node	16537 Apr 01 07:01	0° 8 17'12		minimum elong	16538 Mar 11 06:28	5° Υ 04'46	1°04'18
D d F	16537 Apr 01 03:22	0°8	1 27270 411	max. Earth dist.	16538 Mar 15 23:30	14° Y 35'30	1.35240 AU
max. Earth dist.	16537 Apr 02 14:13	2° 8 43'00	1.37378 AU	desc. node	16538 Mar 19 03:45	20° ℃ 43'46	
evening rise	16537 Apr 06 06:44	9° 8 25′07 0° Ⅱ		evening rise	16538 Mar 19 23:47	22° Y 18'05	
arranina marral	16537 Apr 18 16:36	0° © 10'38	25°20'21		16538 Mar 24 05:09	0°B 0°B	
evening max el	16537 May 11 17:27 16537 May 11 13:09	0.82 0.82	23 20 21	evening max el	16538 Apr 12 10:53 16538 Apr 24 07:02	0 <u>П</u> 13° П 59'11	26°26'55
retrograde	16537 May 23 22:02	7° © 15'04		retrograde	16538 May 07 07:10	21° I I24'01	20 20 33
asc. node	16537 May 26 16:39	6°543'30		evening set	16538 May 13 14:48	18° Ⅱ 51'14	
evening set	16537 May 29 19:51	4°9546'25		asc. node	16538 May 13 13:46	18° Ⅱ 53'20	
min. Earth dist.	16537 Jun 03 03:14	0°500'19	0.68074 AU	min. Earth dist.	16538 May 17 16:00	14° II 40'33	0.66814 AU
mm. Earth dist.	16537 Jun 03 03:20	30°R∏	0.00071710	inferior conj	16538 May 19 13:21	12° Ⅲ 22'49	
inferior conj	16537 Jun 04 11:27	28° Ⅱ 15'44	2°21'24	minimum elong	16538 May 19 11:14	12° Ⅲ 29'15	
minimum elong	16537 Jun 04 09:20	28° Ⅱ 22'39		morning rise	16538 May 25 08:41	6° Ⅱ 41'25	
morning rise	16537 Jun 09 23:14	22° II 22'57		direct	16538 May 28 11:56	5° Ⅱ 46'11	
direct	16537 Jun 13 12:54	21° Ⅱ 09'51		morning max el	16538 Jun 03 22:56	9° Ⅱ 11′06	18°25'01
morning max el	16537 Jun 20 11:45	24° ∏ 56′56	19°10'06	desc. node	16538 Jun 15 04:05	24° Ⅱ 09'50	
	16537 Jun 24 21:55	0 \circ \odot			16538 Jun 18 22:13	0 \circ \odot	
desc. node	16537 Jun 28 07:01	4° © 32'11		morning set	16538 Jun 24 10:24	8°5541'12	
greatest brilliancy	16537 Jul 03 07:46	11° © 50'01	-0.7m		16538 Jul 08 00:12	$0^{\circ}\Omega$	
morning set	16537 Jul 14 11:08	28° © 47'47					
	16537 Jul 15 05:53	0 \circ Ω		superior conj	16538 Jul 10 03:06	3° Ω 18′22	
max. Earth dist.	16537 Jul 27 18:04	19° Ω 24'40	1.45592 AU	minimum elong	16538 Jul 09 23:44	3° Ω 05′16	
				max. Earth dist.	16538 Jul 10 13:46	3° Ω 59'56	1.46031 AU
superior conj	16537 Jul 30 17:20	24° Ω 04'34		evening rise	16538 Jul 26 01:18	28° Ω 10'33	
minimum elong	16537 Jul 30 21:40	24° Ω 21'40	2°11'26		16538 Jul 27 05:12	0° m)	
	16537 Aug 03 11:07	0° m)		greatest brilliancy	16538 Aug 04 03:20	12° Mp 22'11	-0.8m
evening rise	16537 Aug 14 11:01	17° m 45'31		asc. node	16538 Aug 09 13:32	20° m 30'32	10040150
asa nada	16537 Aug 21 23:23	0° ჲ 1° ჲ 09'34		evening max el	16538 Aug 17 01:31	29° ™ 56'43 0° ₽	18°48'59
asc. node	16537 Aug 22 16:47		10017145		16538 Aug 17 02:51		
evening max el	16537 Sep 02 13:24	16° £ 08'08 19° £ 31'20	18°16'45	retrograde	16538 Aug 23 17:24	3° £ 34'07 2° £ 30'19	
retrograde evening set	16537 Sep 08 22:28 16537 Sep 11 20:59	19° 22 31′20 18° 2 43′59		evening set	16538 Aug 27 01:24	30°R, M)	
inferior conj	16537 Sep 17 20:39 16537 Sep 17 19:36	18° 22 43′39	1°49'26	inferior conj	16538 Aug 29 22:29 16538 Sep 01 15:16	30°หูแม่ 26°Mp47'30	2°28'55
minimum elong	16537 Sep 17 19.36 16537 Sep 17 21:52	13° 2 08'34	1°48'50	minimum elong	16538 Sep 01 13.16 16538 Sep 01 17:25	26° m) 40'46	2°28'20
min. Earth dist.	16537 Sep 17 21:32 16537 Sep 20 03:39	13 ≥ 08 34 10° ♀ 33'28	0.64499 AU	min. Earth dist.	16538 Sep 01 17.23	24° Th) 34'32	
morning rise	16537 Sep 20 03:39 16537 Sep 23 21:06	6° £ 54'35	J.J. 177 110	morning rise	16538 Sep 07 08:26	20° m/20'55	J.00312 AU
desc. node	16537 Sep 24 04:41	6° £ 39'53		desc. node	16538 Sep 11 01:59	18° Mp 08'16	
direct	16537 Sep 30 10:00	4° ⊆ 19'56		direct	16538 Sep 13 13:54	17° m/ 44'05	
morning max el	16537 Oct 14 02:13	12° ⊆ 16'23	27°26'57	morning max el	16538 Sep 26 13:47	25° m) 26'04	26°28'26

morning set	16538 Sep 30 18:12 16538 Oct 21 19:10 16538 Nov 01 10:24	0° Ω 0° ጤ 18° ጤ 44'33		morning max el	16539 Sep 09 00:52 16539 Sep 25 17:13 16539 Oct 14 08:40	8° M 51'33 0° <u>∩</u> 0° M.	25°10'35
max. Earth dist.	16538 Nov 05 07:29	26°M12'50	1.34465 AU	morning set	16539 Oct 14 20:48	0°M54'01	
asc. node	16538 Nov 05 14:29	26° M 47′21		max. Earth dist.	16539 Oct 18 09:16	7°M18'18	1.36616 AU
	16538 Nov 07 05:06	0° ∡ ¹		asc. node	16539 Oct 23 11:18	16°M59′28	
superior conj	16538 Nov 10 09:46	6° ∡ '31'39	0°42'32	superior conj	16539 Oct 24 23:03	19°M55'21	0°13'22
minimum elong	16538 Nov 10 07:41	6° ∡ ¹20'56	0°42'42	minimum elong	16539 Oct 24 22:13	19° M 51'13	0°13'38
evening rise	16538 Nov 17 19:35	22° х ¹06'52		behind sun begin	16539 Oct 24 18:46	19°M34'05	
	16538 Nov 21 15:34	ರ∘ರ		behind sun end	16539 Oct 25 01:41	20° ML $08'21$	
evening max el	16538 Dec 07 04:44	24° る 07'20	21°05'25		16539 Oct 29 23:08	0° ∡ 7	
desc. node	16538 Dec 08 00:01	24° る 53'21		evening rise	16539 Nov 02 01:17	6° ∡ 18′01	
retrograde	16538 Dec 18 21:19	29° る 54'19			16539 Nov 15 06:14	ರ∘ರ	
evening set	16538 Dec 21 14:53	29° る 36'47		evening max el	16539 Nov 19 10:25	4° る 59'13	19°46'41
inferior conj	16538 Dec 30 08:22	25° ප් 46'26		desc. node	16539 Nov 24 21:04	8° る 58'04	
minimum elong	16538 Dec 30 01:39			retrograde	16539 Nov 29 11:57	10° ට 00'41	
min. Earth dist.	16538 Dec 31 02:57	25° ⋜ 20'06	0.54405 AU	evening set	16539 Dec 01 13:06	9° る 49'10	
morning rise	16539 Jan 07 12:33	21°る54'32		inferior conj	16539 Dec 10 06:00	5°る48'02	
direct	16539 Jan 11 15:36	21°る17'47	22055116	minimum elong	16539 Dec 09 20:01	6° る 03'31	
morning max el	16539 Jan 24 17:04		22°55'16	min. Earth dist.	16539 Dec 12 09:51	4°る27'41	0.55166 AU
1	16539 Jan 26 23:21	0° ≈		morning rise	16539 Dec 18 01:33	1°る34'31	
asc. node	16539 Feb 01 13:25	7° ≈ 08'00 0° ¥		direct	16539 Dec 23 05:39 16540 Jan 06 01:09	0°る35'32 7°る29'28	24045122
morning set	16539 Feb 14 07:09	0° X 4° X 15'14		morning max el asc. node	16540 Jan 19 10:38	7°629'28 25° そ 04'25	24-45-22
morning set	16539 Feb 16 07:36	4 X 1314		asc. node	16540 Jan 22 07:18	23 3 04 23 0° ≈	
superior conj	16539 Feb 23 06:13	19° ¥ 12'55	1021158	morning set	16540 Jan 31 19:35	0 ≈ 18°≈56'09	
minimum elong	16539 Feb 23 08:22		1°21'54	morning set	16540 Feb 05 20:45	0° ∺	
max. Earth dist.	16539 Feb 26 15:48		1.33450 AU		10340160 03 20.43	0 /	
max. Lartii dist.	16539 Feb 28 09:44	0° Υ	1.55450710	superior conj	16540 Feb 07 13:38	3°) 45′27	1°33'02
evening rise	16539 Mar 03 06:21	5°Υ43'26		minimum elong	16540 Feb 07 14:59	3° ¥ 52′50	1°33'15
desc. node	16539 Mar 06 00:29	11° Y ′01'52		max. Earth dist.	16540 Feb 09 15:45	8° ¥ 19′20	1.32105 AU
	16539 Mar 16 21:47	0°8		evening rise	16540 Feb 14 23:13	19°) 32'34	
evening max el	16539 Apr 06 20:40	27° 8 33'32	27°14'39	Č	16540 Feb 20 07:00	0° Υ	
C	16539 Apr 09 13:21	$\Pi^{\circ}0$		desc. node	16540 Feb 20 21:13	1° Y 06'31	
retrograde	16539 Apr 20 10:14	5° Ⅱ 06'19			16540 Mar 10 01:18	0°8	
evening set	16539 Apr 27 01:20	2° Ⅲ 35′58		evening max el	16540 Mar 19 08:48	10° 8 41'43	27°36'16
	16539 Apr 29 22:26	30° ₹ 8		retrograde	16540 Apr 02 06:00	18° 8 12'49	
asc. node	16539 Apr 30 10:57	29° 8 27'25		evening set	16540 Apr 09 01:04	15° 8 51'56	
min. Earth dist.	16539 Apr 30 22:02	28° 8 57'48	0.65141 AU	min. Earth dist.	16540 Apr 12 19:25	12° 8 41'59	0.63129 AU
inferior conj	16539 May 03 07:59	26° 8 16'34	0°52'35	inferior conj	16540 Apr 15 16:27	9° 8 49'47	
minimum elong	16539 May 03 06:37	26° 8 20'23	0°51'37	minimum elong	16540 Apr 15 16:52	9° 8 48'46	0°12'37
morning rise	16539 May 09 13:44	20° 8 48'18		transit middle	16540 Apr 15 16:52	9° 8 48'46	0°12'37
direct	16539 May 12 07:34	20° 8 08'25		transit begin	16540 Apr 15 14:54	9° 8 53'42	
morning max el	16539 May 18 14:39	23° 8 23'35	17°56'53	transit end	16540 Apr 15 18:49	9° 8 43'52	
JJ.	16539 May 24 00:18 16539 Jun 02 01:05	0°Ⅱ 14°Ⅱ08'55		asc. node	16540 Apr 16 08:10 16540 Apr 22 11:21	9° 8 10'40	
desc. node morning set	16539 Jun 02 01:05 16539 Jun 05 12:25	14°Щ08'33 19°Щ51'21		morning rise direct	16540 Apr 24 20:56	4° 8 37'10 4° 8 09'29	
morning set	16539 Jun 11 17:15	0°95		morning max el	16540 May 01 08:16	7° 8 26'41	17°46'15
	1033) Juli 11 17.13	0 3		morning max ci	16540 May 16 08:54	0° П	17 40 13
superior conj	16539 Jun 19 17:14	12° 5 49'12	-1°54'19	morning set	16540 May 17 16:03	2° Ⅱ 14'19	
minimum elong	16539 Jun 19 08:58	12°5516'28		desc. node	16540 May 18 22:02	4° Ⅱ 23'30	
max. Earth dist.	16539 Jun 23 09:59	18° © 38'30	1.45722 AU				
	16539 Jun 30 17:22	$0^{\circ}\Omega$		superior conj	16540 May 30 01:48	23° Ⅱ 12'49	-1°22'35
evening rise	16539 Jul 05 18:32	7° Ω 45'50		minimum elong	16540 May 29 18:20	22° II 42'09	1°22'14
greatest brilliancy	16539 Jul 19 14:28	28° Ω 37'06	-0.6m		16540 Jun 03 06:03	0ಂಣ	
	16539 Jul 20 13:17	0° m		max. Earth dist.	16540 Jun 05 04:37	3° 5 06'17	1.44696 AU
asc. node	16539 Jul 27 10:19	9° m 23′25		evening rise	16540 Jun 14 05:00	17° © 11'21	
evening max el	16539 Jul 31 08:46	13° m 50'40	19°37'33		16540 Jun 22 16:33	0 $^{\circ}\Omega$	
retrograde	16539 Aug 07 15:29	17° m 54'34		asc. node	16540 Jul 13 07:08	27° Ω 38'58	
evening set	16539 Aug 11 09:39	16° My 32'56		evening max el	16540 Jul 13 10:00		20°40'32
inferior conj	16539 Aug 16 17:59	10° Mp 37'28	2°53'47	_	16540 Jul 15 21:45	0° m/y	
minimum elong	16539 Aug 16 19:28	10° m/32'31	2°53'18	retrograde	16540 Jul 21 14:31	2° Mp 27'24	
min. Earth dist.	16539 Aug 17 22:25	9° Mp 02'49	0.67722 AU	evening set	16540 Jul 25 19:30	0° Mp 47'39	
morning rise	16539 Aug 22 04:45	4° Mp 10'54		infonice	16540 Jul 26 17:13	30°RΩ 24°Ω40'44	2006102
direct desc. node	16539 Aug 28 00:09 16539 Aug 28 23:18	1° mp 39'54 1° mp 43'37		inferior conj minimum elong	16540 Jul 31 01:13 16540 Jul 31 01:48	24°Ω40'44 24°Ω38'40	3°06'03 3°05'37
dese. Houe	10557 Aug 20 25.10	ו כנדיעווי		minimum ciong	10570 Jul 51 01.48	47 0€304U	J 0J J I

		0					
min. Earth dist.	16540 Jul 31 15:59	23° Ω 49'47	0.68674 AU	min. Earth dist.	16541 Jul 15 12:14	8° Ω 47'06	0.69138 AU
morning rise	16540 Aug 05 07:49	18° Ω 18'02		morning rise	16541 Jul 20 15:34	2° Ω 35'55	
direct	16540 Aug 10 15:34	15° Ω 59'13		direct	16541 Jul 25 11:07	0° Ω 33'33	
desc. node	16540 Aug 14 20:34	17° Ω 10'00	220 (210)	desc. node	16541 Aug 01 17:50	4°Ω02'56	2201.412.5
morning max el	16540 Aug 21 11:57	22° Ω 27'21	23°43'01	morning max el	16541 Aug 04 01:01	6° Ω 11'16	22°14'35
	16540 Aug 28 02:33	0° m)			16541 Aug 22 10:07	0° m	
	16540 Sep 18 00:18	0° ⊽		morning set	16541 Sep 06 02:48	22° m/32'11	
morning set	16540 Sep 25 11:23	12° ♀ 12'27	1 20015 411	E d F d	16541 Sep 10 16:20	0∘ ⊽	1 41204 433
max. Earth dist.	16540 Sep 29 08:14	18° ♀ 51'59	1.39015 AU	max. Earth dist.	16541 Sep 11 10:03	1° £ 13'52	1.41384 AU
	16540 Oct 05 12:23	0° M			16541 0 10 06 04	1 40 0 42120	0057152
	16540 0-+ 06 22-16	20M 42147	0020150	superior conj	16541 Sep 19 06:04	14° Ω 43'29	
superior conj	16540 Oct 06 23:16	2°M42'47		minimum elong	16541 Sep 19 10:47	15° Ω 04'25	0-5/05
minimum elong	16540 Oct 07 00:46	2°M49'48	0°20'17	asc. node	16541 Sep 26 04:49	27° Ω 20'52	
asc. node	16540 Oct 09 08:04	7°M11'58			16541 Sep 27 15:05	0°M	
evening rise	16540 Oct 16 00:47	20°M12'42		evening rise	16541 Sep 29 14:42	3°M41'51	10015152
	16540 Oct 21 03:16	0° 🗷	10050110	evening max el	16541 Oct 15 12:23	29°M08'34	18°15'53
evening max el	16540 Nov 01 06:06	16° 🗷 41'32	18°50'18		16541 Oct 16 10:09	0° ∡¹ 2° ∡³ 5 5 2 1	
retrograde	16540 Nov 09 19:15	21°×7'00'40		retrograde	16541 Oct 22 22:00	2° 🖈 55'21	
desc. node	16540 Nov 10 18:09	20° ₹ 57'36		evening set	16541 Oct 24 23:38	2° ₹ 38'15	
evening set	16540 Nov 11 16:55	20° ∡ ¹48'38		desc. node	16541 Oct 28 15:17	0° ₹ 54'02	
inferior conj	16540 Nov 19 21:56	16° ∡ 28′02			16541 Oct 29 22:07	30°RM	
minimum elong	16540 Nov 19 14:50	16° ∡ ¹40'48	2°51'53	inferior conj	16541 Nov 01 11:45	27°M56'21	
min. Earth dist.	16540 Nov 22 21:45	14° ∡ 19'34	0.56713 AU	minimum elong	16541 Nov 01 08:58	28°M02'12	
morning rise	16540 Nov 27 09:50	11° ∡ ³39'34		min. Earth dist.	16541 Nov 04 17:44	25°M13'33	0.58772 AU
direct	16540 Dec 03 08:38	10° √ 14'47		morning rise	16541 Nov 08 14:51	22°M31'31	
morning max el	16540 Dec 17 12:44	17° ∡ ′33'29	26°22'36	direct	16541 Nov 15 01:41	20°M40'07	
	16540 Dec 27 19:45	0°ಕ		morning max el	16541 Nov 29 08:32	28°M19′28	27°29'48
asc. node	16541 Jan 05 07:47	13° る 45'04			16541 Dec 01 00:14	0° ∡ ¹	
	16541 Jan 13 15:02	0° ≈			16541 Dec 21 14:30	0°ಕ	
morning set	16541 Jan 15 06:21	3° ≈ 29'31		asc. node	16541 Dec 23 04:54	2° る 58'28	
				morning set	16541 Dec 30 14:07	17° る 50'49	
superior conj	16541 Jan 22 00:02	18° ≈ 23'12	1°37'57		16542 Jan 05 03:08	0° ≈	
minimum elong	16541 Jan 22 00:21	18° ≈ 25′02	1°38'24				
max. Earth dist.	16541 Jan 22 21:14	20° ≈ 21'30	1.31265 AU	superior conj	16542 Jan 06 11:27	3° ≈ 01'01	1°36'50
	16541 Jan 27 06:36	0°) €		minimum elong	16542 Jan 06 10:44	2° ≈ 56'59	1°37'21
evening rise	16541 Jan 28 23:41	3°) ₹38'46		max. Earth dist.	16542 Jan 06 04:52	2° ≈ 24'07	1.30957 AU
desc. node	16541 Feb 06 17:56	20°) 51′30		evening rise	16542 Jan 13 05:30	17° ≈ 56'54	
	16541 Feb 12 01:19	0° Y			16542 Jan 19 02:19	0° ∀	
evening max el	16541 Mar 01 16:49	23° Y 09'45	27°25'39	desc. node	16542 Jan 24 14:42	10°) €09'26	
	16541 Mar 12 03:10	9° 8			16542 Feb 07 05:46	0 ° Υ	
retrograde	16541 Mar 15 17:16	0° 8 33'17		evening max el	16542 Feb 11 18:06	4° Y 47'35	26°39'51
	16541 Mar 19 04:59	30° ₹Ƴ		retrograde	16542 Feb 25 18:46	12° Y ′00'14	
evening set	16541 Mar 22 11:09	28° Y 28'56		evening set	16542 Mar 04 04:26	10° Y 18′55	
min. Earth dist.	16541 Mar 26 06:42	25° Y 40'12	0.60902 AU	min. Earth dist.	16542 Mar 08 07:48	7° Y 40'36	0.58644 AU
inferior conj	16541 Mar 29 11:11	22° Y ′52'25	-1°31'38	inferior conj	16542 Mar 11 12:26	5° Y 14'36	-3°01'37
minimum elong	16541 Mar 29 14:32	22° Y 45'02	1°30'28	minimum elong	16542 Mar 11 19:27	5° Y 01'10	2°59'00
asc. node	16541 Apr 03 05:25	19° Ƴ 10'53		morning rise	16542 Mar 19 14:04	0° Y 41'43	
morning rise	16541 Apr 05 21:20	17° Ƴ 58'28		asc. node	16542 Mar 21 02:41	0° Y 28'55	
direct	16541 Apr 08 00:13	17° Y 39'39		direct	16542 Mar 21 12:57	0° Y 28'15	
morning max el	16541 Apr 15 00:35	21° Y 10'29	17°53'45	morning max el	16542 Mar 29 11:57	4° Y ′24'27	18°20'37
	16541 Apr 21 17:27	9° 8		morning set	16542 Apr 14 05:38	29° Y ′28′24	
morning set	16541 Apr 30 15:39	15° 8 32'11			16542 Apr 14 12:17	0° 8	
desc. node	16541 May 05 18:54	24° 8 47'59		desc. node	16542 Apr 22 15:45	15° 8 18'15	
	16541 May 08 17:19	$\Pi^{\circ}0$					
	•			superior conj	16542 Apr 23 15:27	17° 8 06'41	-0°08'18
superior conj	16541 May 11 09:46	4° Ⅱ 40'30	-0°45'11	minimum elong	16542 Apr 23 14:48	17° 8 03'40	0°08'36
minimum elong	16541 May 11 05:47	4° Ⅲ 23'20		behind sun begin	16542 Apr 23 08:34	16° 8 35'15	
max. Earth dist.	16541 May 18 19:18	17° Ⅱ 06'31	1.43058 AU	behind sun end	16542 Apr 23 21:02	17° 8 32'03	
evening rise	16541 May 25 01:02	27° I 107'10			16542 Apr 30 22:42	0°II	
J	16541 May 26 21:13	0ංම 		max. Earth dist.	16542 May 01 04:47	0° П 25'56	1.40983 AU
	16541 Jun 16 11:12	0°N		evening rise	16542 May 05 16:26	7° I 55'57	
evening max el	16541 Jun 26 05:23	11° Ω 40'36	21°54'47	3	16542 May 19 22:33	0.ಪ	
asc. node	16541 Jun 30 04:00	15° Ω 03'49	•	evening max el	16542 Jun 08 20:41	25° © 35'15	23°15'33
retrograde	16541 Jul 05 12:49	17° Ω 06'09		<i>5</i>	16542 Jun 14 04:31	0°Ω	
evening set	16541 Jul 10 05:06	15° Ω 09'15		asc. node	16542 Jun 17 00:56	1° Ω 22'11	
inferior conj	16541 Jul 15 10:46	8° £ 52'15	3°07'10	retrograde	16542 Jun 19 08:54	1° Ω 45′20	
minimum elong	16541 Jul 15 10:25	8° £ 53′29	3°06'39	5	16542 Jun 23 23:52	30°Rூ	
	,					,	

	16540 I 04 10 46	200623330		1	16542 1 02 21 57	160015145	
evening set	16542 Jun 24 12:46	29°533'29		asc. node	16543 Jun 03 21:57	16°©15'45	
inferior conj	16542 Jun 29 20:44	23° © 08'32	2°57'46	evening set	16543 Jun 08 16:54	13° © 55'16	
minimum elong	16542 Jun 29 19:30	23° © 12'48	2°57'03	min. Earth dist.	16543 Jun 13 04:38	8° 9 47'42	0.68587 AU
min. Earth dist.	16542 Jun 29 09:10	23° © 48'30	0.69109 AU	inferior conj	16543 Jun 14 05:12	7° 5 25'31	2°37'53
morning rise	16542 Jul 05 02:11	17° © 00'10		minimum elong	16543 Jun 14 03:18	7° 9 31'52	2°36'54
direct	16542 Jul 09 09:40	15° © 16'33		morning rise	16543 Jun 19 13:53	1° 5 26'30	
morning max el	16542 Jul 17 18:42	20° © 04'32	20°52'50	direct	16543 Jun 23 09:52	0° ട് 02'18	
desc. node	16542 Jul 19 15:06	22° © 01'17	_,,	morning max el	16543 Jun 30 19:06	4°908'17	19°43'15
dese. Hode	16542 Jul 26 01:51	0°Ω		desc. node	16543 Jul 06 12:17	10°9548'09	17 43 13
				desc. Hode			
_	16542 Aug 15 13:47	0° m)			16543 Jul 19 20:57	0°Ω	
morning set	16542 Aug 16 19:49	1° m 56'16		morning set	16543 Jul 27 00:36	10° Ω 52'31	
max. Earth dist.	16542 Aug 24 17:43	14° m 27'38	1.43456 AU	max. Earth dist.	16543 Aug 07 07:53	28° Ω 26'45	1.45004 AU
					16543 Aug 08 07:29	0° m y	
superior conj	16542 Aug 31 15:17	25° Mp 48'52	-1°33'39				
minimum elong	16542 Aug 31 22:50	26° m 20'35	1°32'52	superior conj	16543 Aug 12 01:11	5° m 57'25	-2°01'37
	16542 Sep 03 02:40	0∘ <u>⊽</u>		minimum elong	16543 Aug 12 08:19	6° m) 26'04	
evening rise	16542 Sep 12 14:40	° – 16° ≏ 34'14		evening rise	16543 Aug 25 19:32	28° m) 37'22	2 01 20
•	-			evening rise	•		
asc. node	16542 Sep 13 01:32	17° £ 22′20			16543 Aug 26 15:11	0∘ 亚	
	16542 Sep 20 07:40	0°M₊		asc. node	16543 Aug 30 22:16	7° ≏ 12'38	
evening max el	16542 Sep 29 00:58	12°M10'14	18°01'41	evening max el	16543 Sep 12 15:59	25° ≏ 37'20	18°06'09
retrograde	16542 Oct 05 17:17	15°M37'16		retrograde	16543 Sep 19 00:54	28° ≏ 57'50	
evening set	16542 Oct 08 02:12	15°M11'02		evening set	16543 Sep 21 18:21	28° ≏ 18'54	
inferior conj	16542 Oct 14 21:34	10°ML09'10	0°11'45	inferior conj	16543 Sep 27 23:35	22° ₽ 59'20	1°19'06
minimum elong	16542 Oct 14 21:57	10°ML08'15	0°11'58	minimum elong	16543 Sep 28 01:31	22° ♀ 54'00	1°18'37
transit middle	16542 Oct 14 21:57	10°ML08'15	0°11'58	min. Earth dist.	16543 Sep 30 15:02	20° ₽ 07'02	0.63310 AU
			0 11 36				0.03310 AC
transit begin	16542 Oct 14 19:45	10°M13'33		desc. node	16543 Oct 02 09:49	18° ≏ 20'35	
transit end	16542 Oct 15 00:08	10° M ₊02'57		morning rise	16543 Oct 04 06:35	16° ≏ 46'06	
desc. node	16542 Oct 15 12:32	9°M32'46		direct	16543 Oct 10 22:19	14° ≏ 16'21	
min. Earth dist.	16542 Oct 17 23:23	7°M11'36	0.61059 AU	morning max el	16543 Oct 24 20:28	22° ≏ 14'19	27°48'11
morning rise	16542 Oct 21 14:41	4°M15'16			16543 Oct 31 16:52	0° M	
direct	16542 Oct 28 07:01	2°M00'55			16543 Nov 20 08:01	0° ∡ 7	
morning max el	16542 Nov 11 11:54	9° M ₅54'18	27°58'20	asc. node	16543 Nov 26 22:57	12° ∡ 28′02	
3	16542 Nov 27 03:04	0° ∡ ¹		morning set	16543 Nov 28 12:17	15° ∡ ³34'27	
asc. node	16542 Dec 10 01:57	22° х 35'01		max. Earth dist.	16543 Dec 03 11:17	25° ×7' 53'46	1.32036 AU
asc. node				max. Earth dist.			1.32030 AU
	16542 Dec 13 18:49	0°る			16543 Dec 05 08:57	0°ಕ	
morning set	16542 Dec 14 16:51	1° ප 54'10				_	
max. Earth dist.	16542 Dec 20 10:46	14° る 17'15	1.31207 AU	superior conj	16543 Dec 06 05:46	1° る 53'22	1°16'16
				minimum elong	16543 Dec 06 03:31	1° る 41'04	1°16'35
superior conj	16542 Dec 21 22:00	17° る 32'46	1°29'38	minimum elong evening rise	16543 Dec 06 03:31 16543 Dec 13 01:16	1°ත්41'04 16°ත්48'13	1°16'35
superior conj minimum elong	16542 Dec 21 22:00 16542 Dec 21 20:22	17° පි 32'46 17° පි 23'39		_	16543 Dec 13 01:16		1°16'35
	16542 Dec 21 20:22	17° る 23'39		evening rise	16543 Dec 13 01:16 16543 Dec 19 11:01	16° ප් 48'13 0°≈	1°16'35
minimum elong	16542 Dec 21 20:22 16542 Dec 27 12:38	17° る 23'39 0°≈		evening rise desc. node	16543 Dec 13 01:16 16543 Dec 19 11:01 16543 Dec 29 08:23	16° ජ 48'13 0°≈ 16°≈38'34	
minimum elong evening rise	16542 Dec 21 20:22 16542 Dec 27 12:38 16542 Dec 28 14:36	17° る 23'39 0°≈ 2°≈21'23		evening rise	16543 Dec 13 01:16 16543 Dec 19 11:01 16543 Dec 29 08:23 16544 Jan 05 21:38	16° ප් 48'13 0° ≈ 16° ≈ 38'34 25° ≈ 37'57	
minimum elong	16542 Dec 21 20:22 16542 Dec 27 12:38 16542 Dec 28 14:36 16543 Jan 11 11:30	17°る23'39 0°≈ 2°≈21'23 28°≈49'38		evening rise desc. node evening max el	16543 Dec 13 01:16 16543 Dec 19 11:01 16543 Dec 29 08:23 16544 Jan 05 21:38 16544 Jan 11 13:07	16°♂48'13 0°≈ 16°≈38'34 25°≈37'57 0°¥	
minimum elong evening rise desc. node	16542 Dec 21 20:22 16542 Dec 27 12:38 16542 Dec 28 14:36 16543 Jan 11 11:30 16543 Jan 12 05:14	17°る23'39 0°≈ 2°≈21'23 28°≈49'38 0°升	1°30′05	evening rise desc. node evening max el retrograde	16543 Dec 13 01:16 16543 Dec 19 11:01 16543 Dec 29 08:23 16544 Jan 05 21:38 16544 Jan 11 13:07 16544 Jan 19 07:52	16°₹48'13 0°≈ 16°≈38'34 25°≈37'57 0°¥ 2°¥16'46	
minimum elong evening rise desc. node evening max el	16542 Dec 21 20:22 16542 Dec 27 12:38 16542 Dec 28 14:36 16543 Jan 11 11:30 16543 Jan 12 05:14 16543 Jan 24 11:08	17°♂23'39 0°≈ 2°≈21'23 28°≈49'38 0°升 15°升32'46		evening rise desc. node evening max el	16543 Dec 13 01:16 16543 Dec 19 11:01 16543 Dec 29 08:23 16544 Jan 05 21:38 16544 Jan 11 13:07 16544 Jan 19 07:52 16544 Jan 23 23:44	16°₹48'13 0°≈ 16°≈38'34 25°≈37'57 0°¥ 2°¥16'46 1°¥29'48	
minimum elong evening rise desc. node	16542 Dec 21 20:22 16542 Dec 27 12:38 16542 Dec 28 14:36 16543 Jan 11 11:30 16543 Jan 12 05:14	17°⋜23'39 0°≈ 2°≈21'23 28°≈49'38 0° ¥ 15°¥32'46 22°¥31'08	1°30′05	evening rise desc. node evening max el retrograde	16543 Dec 13 01:16 16543 Dec 19 11:01 16543 Dec 29 08:23 16544 Jan 05 21:38 16544 Jan 11 13:07 16544 Jan 19 07:52	16°₹48'13 0°≈ 16°≈38'34 25°≈37'57 0°¥ 2°¥16'46	
minimum elong evening rise desc. node evening max el	16542 Dec 21 20:22 16542 Dec 27 12:38 16542 Dec 28 14:36 16543 Jan 11 11:30 16543 Jan 12 05:14 16543 Jan 24 11:08	17°♂23'39 0°≈ 2°≈21'23 28°≈49'38 0° ₩ 15° ₩32'46 22° ₩31'08 21° ₩17'12	1°30'05 25°21'48	evening rise desc. node evening max el retrograde	16543 Dec 13 01:16 16543 Dec 19 11:01 16543 Dec 29 08:23 16544 Jan 05 21:38 16544 Jan 11 13:07 16544 Jan 19 07:52 16544 Jan 23 23:44	16°₹48'13 0°≈ 16°≈38'34 25°≈37'57 0°¥ 2°¥16'46 1°¥29'48	
minimum elong evening rise desc. node evening max el retrograde	16542 Dec 21 20:22 16542 Dec 27 12:38 16542 Dec 28 14:36 16543 Jan 11 11:30 16543 Jan 12 05:14 16543 Jan 24 11:08 16543 Feb 07 08:17	17°♂23'39 0°≈ 2°≈21'23 28°≈49'38 0° ₩ 15° ₩32'46 22° ₩31'08 21° ₩17'12	1°30′05	evening rise desc. node evening max el retrograde evening set	16543 Dec 13 01:16 16543 Dec 19 11:01 16543 Dec 29 08:23 16544 Jan 05 21:38 16544 Jan 11 13:07 16544 Jan 19 07:52 16544 Jan 23 23:44 16544 Jan 27 12:37	16°₹48'13 0°≈ 16°≈38'34 25°≈37'57 0° ₩ 2° ₩ 16'46 1° ₩ 29'48 30° R≈	23°42'27 0.55110 AU
minimum elong evening rise desc. node evening max el retrograde evening set	16542 Dec 21 20:22 16542 Dec 27 12:38 16542 Dec 28 14:36 16543 Jan 11 11:30 16543 Jan 12 05:14 16543 Jan 24 11:08 16543 Feb 07 08:17 16543 Feb 13 01:21	17°♂23'39 0°≈ 2°≈21'23 28°≈49'38 0° ₩ 15° ₩32'46 22° ₩31'08 21° ₩17'12	1°30'05 25°21'48 0.56614 AU	evening rise desc. node evening max el retrograde evening set min. Earth dist.	16543 Dec 13 01:16 16543 Dec 19 11:01 16543 Dec 29 08:23 16544 Jan 05 21:38 16544 Jan 11 13:07 16544 Jan 19 07:52 16544 Jan 23 23:44 16544 Jan 27 12:37 16544 Jan 30 08:58	16°₹48'13 0°≈ 16°≈38'34 25°≈37'57 0° ₩ 2° ₩ 16'46 1° ₩ 29'48 30° № 28°≈25'58	23°42'27 0.55110 AU -5°40'51
evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	16542 Dec 21 20:22 16542 Dec 27 12:38 16542 Dec 28 14:36 16543 Jan 11 11:30 16543 Jan 12 05:14 16543 Feb 07 08:17 16543 Feb 13 01:21 16543 Feb 17 23:52 16543 Feb 20 17:04	17°♂23'39 0°≈ 2°≈21'23 28°≈49'38 0° ₩ 15° ₩32'46 22° ₩31'08 21° ₩17'12 18° ₩34'50 16° ₩47'02	1°30'05 25°21'48 0.56614 AU -4°31'46	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	16543 Dec 13 01:16 16543 Dec 19 11:01 16543 Dec 29 08:23 16544 Jan 05 21:38 16544 Jan 11 13:07 16544 Jan 19 07:52 16544 Jan 23 23:44 16544 Jan 27 12:37 16544 Jan 30 08:58 16544 Feb 01 00:54	16°♂48'13 0°≈ 16°≈38'34 25°≈37'57 0° ℋ 2° ℋ16'46 1° ℋ29'48 30° R≈ 28°≈25'58 27°≈27'19 27°≈17'07	23°42'27 0.55110 AU -5°40'51
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	16542 Dec 21 20:22 16542 Dec 27 12:38 16542 Dec 28 14:36 16543 Jan 11 11:30 16543 Jan 12 05:14 16543 Jan 24 11:08 16543 Feb 07 08:17 16543 Feb 17 23:52 16543 Feb 20 17:04 16543 Feb 21 02:32	17°♂23'39 0°≈ 2°≈21'23 28°≈49'38 0° ₩ 15° ₩32'46 22° ₩31'08 21° ₩17'12 18° ₩34'50 16° ₩47'02 16° ₩31'21	1°30'05 25°21'48 0.56614 AU -4°31'46	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	16543 Dec 13 01:16 16543 Dec 19 11:01 16543 Dec 29 08:23 16544 Jan 05 21:38 16544 Jan 11 13:07 16544 Jan 19 07:52 16544 Jan 23 23:44 16544 Jan 27 12:37 16544 Jan 30 08:58 16544 Feb 01 07:50 16544 Feb 01 07:50	16°♂48'13 0°≈ 16°≈38'34 25°≈37'57 0° ₩ 2° ₩ 16'46 1° ₩ 29'48 30° R≈ 28°≈25'58 27°≈27'19 27°≈17'07 23°≈32'47	23°42'27 0.55110 AU -5°40'51
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	16542 Dec 21 20:22 16542 Dec 27 12:38 16542 Dec 28 14:36 16543 Jan 11 11:30 16543 Jan 12 05:14 16543 Jan 24 11:08 16543 Feb 07 08:17 16543 Feb 13 01:21 16543 Feb 17 23:52 16543 Feb 20 17:04 16543 Feb 21 02:32 16543 Mar 01 06:31	17°♂23'39 0°≈ 2°≈21'23 28°≈49'38 0° ℋ 15° ℋ32'46 22° ℋ31'08 21° ℋ17'12 18° ℋ34'50 16° ℋ47'02 16° ℋ31'21 12° ℋ35'14	1°30'05 25°21'48 0.56614 AU -4°31'46	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	16543 Dec 13 01:16 16543 Dec 19 11:01 16543 Dec 29 08:23 16544 Jan 05 21:38 16544 Jan 11 13:07 16544 Jan 19 07:52 16544 Jan 23 23:44 16544 Jan 27 12:37 16544 Jan 30 08:58 16544 Feb 01 07:50 16544 Feb 09 17:27 16544 Feb 09 17:27	16°₹48'13 0°≈ 16°≈38'34 25°≈37'57 0° ₩ 2° ₩ 16'46 1° ₩ 29'48 30° R≈ 28°≈25'58 27°≈27'19 27°≈17'07 23°≈32'47 23°≈16'53	23°42'27 0.55110 AU -5°40'51
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minimum elong 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	16542 Dec 21 20:22 16542 Dec 27 12:38 16542 Dec 28 14:36 16543 Jan 11 11:30 16543 Jan 24 11:08 16543 Feb 07 08:17 16543 Feb 13 01:21 16543 Feb 17 23:52 16543 Feb 21 02:32 16543 Feb 21 02:32 16543 Mar 01 06:31 16543 Mar 03 07:13 16543 Mar 07 24:00 16543 Mar 21 22:20 16543 Mar 29 05:29 16543 Apr 06 10:45 16543 Apr 06 16:08 16543 Apr 06 16:08 16543 Apr 06 16:08	17° ₹23'39 0° ≈ 2° ≈21'23 28° ≈49'38 0° ₩ 15° ₩32'46 22° ₩31'08 21° ₩17'12 18° ₩34'50 16° ₩47'02 16° ₩31'21 12° ₩35'14 12° ₩23'10 13° ₩32'14 16° ₩55'46 0° ₩ 13° ₩49'22 0° ₩ 0° ₩18'46 0° ₩25'54 5° ₩49'58	1°30'05 25°21'48 0.56614 AU -4°31'46 4°28'53 19°08'48 0°24'36 0°24'05	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	16543 Dec 13 01:16 16543 Dec 19 11:01 16543 Dec 29 08:23 16544 Jan 05 21:38 16544 Jan 11 13:07 16544 Jan 19 07:52 16544 Jan 23 23:44 16544 Jan 27 12:37 16544 Jan 30 08:58 16544 Feb 01 07:50 16544 Feb 09 17:27 16544 Feb 12 06:15 16544 Feb 22 21:19 16544 Feb 23 02:54 16544 Feb 24 12:40 16544 Mar 12 11:49 16544 Mar 13 06:16	16° ₹48'13 0° ≈ 16° ≈38'34 25° ≈37'57 0° ₩ 2° ₩ 16'46 1° ₩ 29'48 30° № 28° ≈25'58 27° ≈27'19 27° ≈17'07 23° ≈32'47 23° ≈16'53 28° ≈19'35 28° ≈32'59 0° ₩ 28° ₩ 25'12 0° Ŷ 14° Ŷ 05'25 14° Ŷ 17'36 25° Ŷ 07'28 26° Ŷ 19'34	23°42'27 0.55110 AU -5°40'51 5°39'28 20°20'10 0°51'48 0°51'20
minimum elong 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	16542 Dec 21 20:22 16542 Dec 27 12:38 16542 Dec 28 14:36 16543 Jan 11 11:30 16543 Jan 12 05:14 16543 Jan 24 11:08 16543 Feb 07 08:17 16543 Feb 13 01:21 16543 Feb 17 23:52 16543 Feb 20 17:04 16543 Feb 21 02:32 16543 Mar 01 06:31 16543 Mar 03 07:13 16543 Mar 07 24:00 16543 Mar 12 14:08 16543 Mar 21 22:20 16543 Mar 29 05:29 16543 Apr 06 10:45 16543 Apr 06 16:08 16543 Apr 06 16:08 16543 Apr 09 12:31 16543 Apr 09 12:31	17° ₹23'39 0° ≈ 2° ≈21'23 28° ≈49'38 0° ₩ 15° ₩32'46 22° ₩31'08 21° ₩17'12 18° ₩34'50 16° ₩47'02 16° ₩31'21 12° ₩35'14 12° ₩35'14 10° ₩23'10 13° ₩32'14 16° ₩55'46 0° ₩ 13° ₩49'22 0° ₩ 0° ₩18'46 0° ₩25'54 5° ₩49'58 13° ₩02'19	1°30'05 25°21'48 0.56614 AU -4°31'46 4°28'53 19°08'48	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node	16543 Dec 13 01:16 16543 Dec 19 11:01 16543 Dec 29 08:23 16544 Jan 05 21:38 16544 Jan 11 13:07 16544 Jan 19 07:52 16544 Jan 23 23:44 16544 Jan 27 12:37 16544 Jan 30 08:58 16544 Feb 01 07:50 16544 Feb 09 17:27 16544 Feb 12 06:15 16544 Feb 22 21:19 16544 Feb 23 02:54 16544 Feb 24 12:40 16544 Mar 12 11:49 16544 Mar 13 06:16 16544 Mar 20 03:07 16544 Mar 20 03:32 16544 Mar 26 09:14 16544 Mar 26 09:14 16544 Mar 26 09:14	16° ₹48'13 0° ≈ 16° ≈38'34 25° ≈37'57 0° ₩ 2° ₩ 16'46 1° ₩ 29'48 30° № 28° ≈25'58 27° ≈27'19 27° ≈17'07 23° ≈32'47 23° ≈16'53 28° ≈19'35 28° ≈32'59 0° ₩ 28° ₩ 25'12 0° ♥ 14° ♥ 05'25 14° ♥ 17'36 25° ♥ 07'28 26° ♥ 19'34 0° ₩	23°42'27 0.55110 AU -5°40'51 5°39'28 20°20'10 0°51'48 0°51'20
minimum elong 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	16542 Dec 21 20:22 16542 Dec 27 12:38 16542 Dec 28 14:36 16543 Jan 11 11:30 16543 Jan 12 05:14 16543 Jan 24 11:08 16543 Feb 07 08:17 16543 Feb 13 01:21 16543 Feb 20 17:04 16543 Feb 20 17:04 16543 Feb 21 02:32 16543 Mar 01 06:31 16543 Mar 03 07:13 16543 Mar 07 24:00 16543 Mar 12 14:08 16543 Mar 21 22:20 16543 Mar 29 05:29 16543 Apr 06 10:45 16543 Apr 06 16:08 16543 Apr 06 16:08 16543 Apr 09 12:31 16543 Apr 13 10:52 16543 Apr 13 10:52	17° ₹23'39 0° ≈ 2° ≈ 21'23 28° ≈ 49'38 0° ₩ 15° ₩ 32'46 22° ₩ 31'08 21° ₩ 17'12 18° ₩ 34'50 16° ₩ 47'02 16° ₩ 31'21 12° ₩ 35'14 12° ₩ 23'10 13° ₩ 32'14 16° ₩ 55'46 0° ♥ 13° ♥ 49'22 0° ₺ 18'46 0° ₺ 25'54 5° ₺ 49'58 13° ₺ 02'19 19° ₺ 39'30	1°30'05 25°21'48 0.56614 AU -4°31'46 4°28'53 19°08'48 0°24'36 0°24'05	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist.	16543 Dec 13 01:16 16543 Dec 19 11:01 16543 Dec 29 08:23 16544 Jan 05 21:38 16544 Jan 11 13:07 16544 Jan 19 07:52 16544 Jan 23 23:44 16544 Jan 27 12:37 16544 Jan 30 08:58 16544 Feb 01 07:50 16544 Feb 01 07:50 16544 Feb 12 06:15 16544 Feb 22 21:19 16544 Feb 23 02:54 16544 Feb 24 12:40 16544 Mar 12 11:49 16544 Mar 13 06:16 16544 Mar 20 03:07 16544 Mar 20 05:32 16544 Mar 26 09:14 16544 Mar 28 08:27 16544 Mar 28 08:27	16° ₹48'13 0° ≈ 16° ≈38'34 25° ≈37'57 0° ₩ 2° ₩ 16'46 1° ₩ 29'48 30° № 28° ≈25'58 27° ≈27'19 27° ≈17'07 23° ≈32'47 23° ≈16'53 28° ≈19'35 28° ≈32'59 0° ₩ 28° ₩ 25'12 0° Ψ' 14° Ψ 05'25 14° Ψ 17'36 25° Ψ 07'28 26° Ψ 19'34 0° ₩ 2° ₩ 10'06	23°42'27 0.55110 AU -5°40'51 5°39'28 20°20'10 0°51'48 0°51'20
minimum elong 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	16542 Dec 21 20:22 16542 Dec 27 12:38 16542 Dec 28 14:36 16543 Jan 11 11:30 16543 Jan 12 05:14 16543 Jan 24 11:08 16543 Feb 07 08:17 16543 Feb 13 01:21 16543 Feb 20 17:04 16543 Feb 21 02:32 16543 Mar 01 06:31 16543 Mar 03 07:13 16543 Mar 07 24:00 16543 Mar 12 14:08 16543 Mar 21 22:20 16543 Mar 29 05:29 16543 Apr 06 10:45 16543 Apr 06 16:08 16543 Apr 06 16:08 16543 Apr 07 05:08 16543 Apr 13 10:52 16543 Apr 17 05:08 16543 Apr 23 09:43	17° ₹23'39 0° ≈ 2° ≈21'23 28° ≈49'38 0° ₩ 15° ₩32'46 22° ₩31'08 21° ₩17'12 18° ₩34'50 16° ₩47'02 16° ₩31'21 12° ₩35'14 12° ₩23'10 13° ₩32'14 16° ₩55'46 0° ₩ 13° ₩49'22 0° ₩ 0° ₩18'46 0° ₩25'54 5° ₩49'58 13° ₩02'19 19° ₩39'30 0° Ⅲ	1°30'05 25°21'48 0.56614 AU -4°31'46 4°28'53 19°08'48 0°24'36 0°24'05	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node	16543 Dec 13 01:16 16543 Dec 19 11:01 16543 Dec 29 08:23 16544 Jan 05 21:38 16544 Jan 11 13:07 16544 Jan 19 07:52 16544 Jan 23 23:44 16544 Jan 27 12:37 16544 Jan 30 08:58 16544 Feb 01 00:54 16544 Feb 01 07:50 16544 Feb 12 06:15 16544 Feb 22 21:19 16544 Feb 23 02:54 16544 Feb 24 12:40 16544 Mar 12 11:49 16544 Mar 13 06:16 16544 Mar 20 03:07 16544 Mar 20 03:07 16544 Mar 20 05:32 16544 Mar 26 09:14 16544 Mar 28 08:27 16544 Mar 29 12:51 16544 Mar 29 12:51 16544 Mar 29 12:51	16° ₹48'13 0° ≈ 16° ≈38'34 25° ≈37'57 0° ₩ 2° ₩16'46 1° ₩29'48 30° № 28° ≈25'58 27° ≈27'19 27° ≈17'07 23° ≈32'47 23° ≈16'53 28° ≈19'35 28° ≈32'59 0° ₩ 28° ₩25'12 0° Ψ 14° ¥05'25 14° ¥17'36 25° ¥07'28 26° ¥19'34 0° ₩ 2° ₺10'06 0° Ⅱ	23°42'27 0.55110 AU -5°40'51 5°39'28 20°20'10 0°51'48 0°51'20 1.36443 AU
minimum elong 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	16542 Dec 21 20:22 16542 Dec 27 12:38 16542 Dec 28 14:36 16543 Jan 11 11:30 16543 Jan 12 05:14 16543 Jan 24 11:08 16543 Feb 07 08:17 16543 Feb 13 01:21 16543 Feb 20 17:04 16543 Feb 20 17:04 16543 Feb 21 02:32 16543 Mar 01 06:31 16543 Mar 03 07:13 16543 Mar 07 24:00 16543 Mar 12 14:08 16543 Mar 21 22:20 16543 Mar 29 05:29 16543 Apr 06 10:45 16543 Apr 06 16:08 16543 Apr 06 16:08 16543 Apr 09 12:31 16543 Apr 13 10:52 16543 Apr 13 10:52	17° ₹23'39 0° ≈ 2° ≈ 21'23 28° ≈ 49'38 0° ₩ 15° ₩ 32'46 22° ₩ 31'08 21° ₩ 17'12 18° ₩ 34'50 16° ₩ 47'02 16° ₩ 31'21 12° ₩ 35'14 12° ₩ 23'10 13° ₩ 32'14 16° ₩ 55'46 0° ♥ 13° ♥ 49'22 0° ₺ 18'46 0° ₺ 25'54 5° ₺ 49'58 13° ₺ 02'19 19° ₺ 39'30	1°30'05 25°21'48 0.56614 AU -4°31'46 4°28'53 19°08'48 0°24'36 0°24'05	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node	16543 Dec 13 01:16 16543 Dec 19 11:01 16543 Dec 29 08:23 16544 Jan 05 21:38 16544 Jan 11 13:07 16544 Jan 19 07:52 16544 Jan 23 23:44 16544 Jan 27 12:37 16544 Jan 30 08:58 16544 Feb 01 07:50 16544 Feb 01 07:50 16544 Feb 12 06:15 16544 Feb 22 21:19 16544 Feb 23 02:54 16544 Feb 24 12:40 16544 Mar 12 11:49 16544 Mar 13 06:16 16544 Mar 20 03:07 16544 Mar 20 05:32 16544 Mar 26 09:14 16544 Mar 28 08:27 16544 Mar 28 08:27	16° ₹48'13 0° ≈ 16° ≈38'34 25° ≈37'57 0° ₩ 2° ₩ 16'46 1° ₩ 29'48 30° № 28° ≈25'58 27° ≈27'19 27° ≈17'07 23° ≈32'47 23° ≈16'53 28° ≈19'35 28° ≈32'59 0° ₩ 28° ₩ 25'12 0° Ψ' 14° Ψ 05'25 14° Ψ 17'36 25° Ψ 07'28 26° Ψ 19'34 0° ₩ 2° ₩ 10'06	23°42'27 0.55110 AU -5°40'51 5°39'28 20°20'10 0°51'48 0°51'20 1.36443 AU
minimum elong 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	16542 Dec 21 20:22 16542 Dec 27 12:38 16542 Dec 28 14:36 16543 Jan 11 11:30 16543 Jan 12 05:14 16543 Jan 24 11:08 16543 Feb 07 08:17 16543 Feb 13 01:21 16543 Feb 20 17:04 16543 Feb 21 02:32 16543 Mar 01 06:31 16543 Mar 03 07:13 16543 Mar 07 24:00 16543 Mar 12 14:08 16543 Mar 21 22:20 16543 Mar 29 05:29 16543 Apr 06 10:45 16543 Apr 06 16:08 16543 Apr 06 16:08 16543 Apr 07 05:08 16543 Apr 13 10:52 16543 Apr 17 05:08 16543 Apr 23 09:43	17° ₹23'39 0° ≈ 2° ≈21'23 28° ≈49'38 0° ₩ 15° ₩32'46 22° ₩31'08 21° ₩17'12 18° ₩34'50 16° ₩47'02 16° ₩31'21 12° ₩35'14 12° ₩23'10 13° ₩32'14 16° ₩55'46 0° ₩ 13° ₩49'22 0° ₩ 0° ₩18'46 0° ₩25'54 5° ₩49'58 13° ₩02'19 19° ₩39'30 0° Ⅲ	1°30'05 25°21'48 0.56614 AU -4°31'46 4°28'53 19°08'48 0°24'36 0°24'05 1.38696 AU	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise	16543 Dec 13 01:16 16543 Dec 19 11:01 16543 Dec 29 08:23 16544 Jan 05 21:38 16544 Jan 11 13:07 16544 Jan 19 07:52 16544 Jan 23 23:44 16544 Jan 27 12:37 16544 Jan 30 08:58 16544 Feb 01 00:54 16544 Feb 01 07:50 16544 Feb 12 06:15 16544 Feb 22 21:19 16544 Feb 23 02:54 16544 Feb 24 12:40 16544 Mar 12 11:49 16544 Mar 13 06:16 16544 Mar 20 03:07 16544 Mar 20 03:07 16544 Mar 20 05:32 16544 Mar 26 09:14 16544 Mar 28 08:27 16544 Mar 29 12:51 16544 Mar 29 12:51 16544 Mar 29 12:51	16° ₹48'13 0° ≈ 16° ≈38'34 25° ≈37'57 0° ₩ 2° ₩16'46 1° ₩29'48 30° № 28° ≈25'58 27° ≈27'19 27° ≈17'07 23° ≈32'47 23° ≈16'53 28° ≈19'35 28° ≈32'59 0° ₩ 28° ₩25'12 0° Ψ 14° ¥05'25 14° ¥17'36 25° ¥07'28 26° ¥19'34 0° ₩ 2° ₺10'06 0° Ⅱ	23°42'27 0.55110 AU -5°40'51 5°39'28 20°20'10 0°51'48 0°51'20 1.36443 AU
minimum elong 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	16542 Dec 21 20:22 16542 Dec 27 12:38 16542 Dec 28 14:36 16543 Jan 11 11:30 16543 Jan 12 05:14 16543 Jan 24 11:08 16543 Feb 07 08:17 16543 Feb 13 01:21 16543 Feb 20 17:04 16543 Feb 21 02:32 16543 Mar 01 06:31 16543 Mar 07 24:00 16543 Mar 07 24:00 16543 Mar 21 22:20 16543 Mar 21 22:20 16543 Mar 29 05:29 16543 Apr 06 10:45 16543 Apr 06 10:45 16543 Apr 06 16:08 16543 Apr 07 05:08 16543 Apr 17 05:08 16543 Apr 23 09:43 16543 Mar 23 09:43 16543 Mar 23 09:43	17° ₹23'39 0° ≈ 2° ≈ 21'23 28° ≈ 49'38 0° ₩ 15° ₩ 32'46 22° ₩ 31'08 21° ₩ 17'12 18° ₩ 34'50 16° ₩ 47'02 16° ₩ 31'21 12° ₩ 35'14 12° ₩ 23'10 13° ₩ 22'14 16° ₩ 55'46 0° ϒ 13° ϒ 49'22 0° ੴ 0° ₩ 18'46 0° ₩ 25'54 5° ₩ 49'58 13° ₩ 20'19 19° ₩ 39'30 0° Ⅲ 0° €	1°30'05 25°21'48 0.56614 AU -4°31'46 4°28'53 19°08'48 0°24'36 0°24'05 1.38696 AU	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise	16543 Dec 13 01:16 16543 Dec 19 11:01 16543 Dec 29 08:23 16544 Jan 05 21:38 16544 Jan 11 13:07 16544 Jan 19 07:52 16544 Jan 23 23:44 16544 Jan 27 12:37 16544 Jan 30 08:58 16544 Feb 01 00:54 16544 Feb 01 07:50 16544 Feb 12 06:15 16544 Feb 22 21:19 16544 Feb 23 02:54 16544 Feb 24 12:40 16544 Mar 12 11:49 16544 Mar 13 06:16 16544 Mar 20 03:07 16544 Mar 20 03:07 16544 Mar 20 05:32 16544 Mar 26 09:14 16544 Mar 28 08:27 16544 Mar 29 12:51 16544 Mar 29 12:51 16544 Mar 00:00	16° ₹48'13 0° ≈ 16° ≈38'34 25° ≈37'57 0° ₩ 2° ₩16'46 1° ₩29'48 30° № 28° ≈25'58 27° ≈27'19 27° ≈17'07 23° ≈32'47 23° ≈16'53 28° ≈19'35 28° ≈32'59 0° ₩ 28° ₩25'12 0° Ψ 14° Ψ05'25 14° Ψ17'36 25° Ψ07'28 26° Ψ19'34 0° ₩ 2° ₺10'06 0° Ⅲ 23° Ⅲ25'02	23°42'27 0.55110 AU -5°40'51 5°39'28 20°20'10 0°51'48 0°51'20 1.36443 AU

	16544 May 19 17:03	30° Ŗ Ⅱ		evening max el	16545 Apr 16 13:48	7° Ⅱ 09'40	26°49'56
asc. node	16544 May 20 19:03	29° Ⅱ 27'28		retrograde	16545 Apr 29 20:02	14° ∏ 38'35	
evening set	16544 May 22 15:43	28° Ⅱ 08'07		evening set	16545 May 06 07:22	12° Ⅱ 05'56	
min. Earth dist.	16544 May 26 20:25	23° Ⅱ 37'13	0.67594 AU	asc. node	16545 May 07 16:11	10° Ⅱ 54'18	
inferior conj	16544 May 28 10:08	21° Ⅱ 37'53	2°06'51	min. Earth dist.	16545 May 10 06:26	8° Ⅱ 09'43	0.66156 AU
minimum elong	16544 May 28 07:56	21° II 44'50	2°05'39	inferior conj	16545 May 12 09:16	5° Ⅱ 40'44	1°23'37
morning rise	16544 Jun 03 00:45	15° Ⅱ 49'34		minimum elong	16545 May 12 07:22	5° Ⅱ 46′20	1°22'26
direct	16544 Jun 06 09:58	14° II 44'08	10040150	morning rise	16545 May 18 08:41	0° Ⅱ 04'48	
morning max el	16544 Jun 13 02:39	18° Ⅲ 20'01	18°48'50		16545 May 18 12:20	30° ₹ 8	
desc. node	16544 Jun 22 09:24	0°9510'08		direct	16545 May 21 07:56	29° 8 16'19	
	16544 Jun 22 06:38	0°9	0.0		16545 May 24 04:46	0°II	10010150
greatest brilliancy	16544 Jun 26 19:22	6°546'25	-0.8m	morning max el	16545 May 27 16:06	2° I 35'11	18°10'59
morning set	16544 Jul 05 12:06	20°©11'52		desc. node	16545 Jun 09 06:27	19° Ⅱ 58'09	
T 4 1	16544 Jul 11 19:31	0°N	1 45056 433	morning set	16545 Jun 15 22:25	0°937'52	
max. Earth dist.	16544 Jul 20 02:50	12° Ω 55'41	1.45876 AU		16545 Jun 15 12:59	0ං ව	
	16544 1 1 21 16 07	150 0 21110	201.411.2		16545 1 1 01 01 20	240627100	2007155
superior conj	16544 Jul 21 16:07	15° Ω 21'18		superior conj	16545 Jul 01 01:38	24°937'09	
minimum elong	16544 Jul 21 17:21	15° Ω 26'06	2°14'42	minimum elong	16545 Jun 30 19:29	24°513'05	
	16544 Jul 30 23:18	0° m ,20105		max. Earth dist.	16545 Jul 02 23:36	27°936'36	1.45998 AU
evening rise	16544 Aug 06 00:23	9° Mp 39'05			16545 Jul 04 12:24	0° Ω 19° Ω 40'31	
asc. node	16544 Aug 16 19:00	26° Mp 46'04		evening rise	16545 Jul 17 04:41		
	16544 Aug 18 22:29	0∘ ⊽	10020122		16545 Jul 23 21:07	0° M)	0.7
evening max el	16544 Aug 26 05:59	9° £ 20'14	18°28'23	greatest brilliancy	16545 Jul 28 10:58	6° Mp 58'02	-0.7m
retrograde	16544 Sep 01 16:44	12° £ 47'34		asc. node	16545 Aug 03 15:46	15° Mp 56'17	19°07'37
evening set	16544 Sep 04 19:20 16544 Sep 10 13:48	11° £ 53'15	2°08'07	evening max el	16545 Aug 09 16:13	23° Mp 11'42	19 0/3/
inferior conj	16544 Sep 10 15:48 16544 Sep 10 16:06	6° Ω 18'11	2°08'07' 2°07'29	retrograde	16545 Aug 16 13:26	26° My 58'59	
minimum elong min. Earth dist.		6° ♀ 11'15 3° ♀ 47'36	0.65323 AU	evening set	16545 Aug 20 01:42	25° Mp 47'34	2°41'06
morning rise	16544 Sep 12 16:03 16544 Sep 16 11:34	29° Mp 54'27	0.03323 AU	inferior conj minimum elong	16545 Aug 25 12:49 16545 Aug 25 14:43	19° Mp 58'55 19° Mp 52'44	2°40'33
morning rise	•			min. Earth dist.	16545 Aug 27 01:09		0.66970 AU
desc. node	16544 Sep 16 08:54	30°RM)				18° Mp 01'37	0.00970 AU
direct	16544 Sep 18 07:08 16544 Sep 22 21:45	28° Mp 37'34 27° Mp 18'03		morning rise desc. node	16545 Aug 31 03:00 16545 Sep 05 04:28	13° Mp 31'41 11° Mp 00'40	
unect	16544 Sep 30 06:23	0° ⊽		direct	16545 Sep 06 04:17	10° Mp 56'48	
morning max el	16544 Oct 06 07:35	0 == 5° £ 09'13	27905100	morning max el	16545 Sep 18 19:13	18° M) 27'29	25°57'05
morning max er	16544 Oct 25 07:50	0°M	27 03 00	morning max er	16545 Sep 28 13:45	0° ⊡	23 37 03
morning set	16544 Nov 10 21:38	28°ML45'27			16545 Oct 18 08:05	0° ™	
morning set	16544 Nov 11 12:59	28 11 3 43 27		morning set	16545 Oct 24 17:34	11°ML20'14	
asc. node	16544 Nov 12 19:52	2° × ⁷ 31'50		max. Earth dist.	16545 Oct 28 09:54	18°M15'35	1.35339 AU
max. Earth dist.	16544 Nov 15 03:20		1.33432 AU	asc. node	16545 Oct 30 16:43	22°M42'11	1.55557 AC
max. Latti dist.	103441101 13 03.20	7 7 1033	1.55452 110	ase. Hode	10343 Oct 30 10.43	22 110-12 11	
superior conj	16544 Nov 19 08:31	15° ∡ ¹56'59	0°56'38	superior conj	16545 Nov 03 03:36	29°M37'20	0°30'50
minimum elong	16544 Nov 19 06:10	15° х 44'33	0°56'50	minimum elong	16545 Nov 03 01:56	29°M28'50	0°31'02
g	16544 Nov 25 21:55	0°ਰ	0 0000	mmmum viong	16545 Nov 03 08:03	0° ∡ ¹	0 31 02
evening rise	16544 Nov 26 11:36	1°る12'53		evening rise	16545 Nov 10 19:40	15° ₹ ¹30'46	
<i>3</i> - 1	16544 Dec 12 12:45	0° ≈		3	16545 Nov 18 03:37	0° ට	
desc. node	16544 Dec 15 05:19	3°≈18'20		evening max el	16545 Nov 29 05:51	15° ප 57'59	20°29'10
evening max el	16544 Dec 17 08:39	5° ≈ 33'49	21°59'28	desc. node	16545 Dec 02 02:20	18° ට 26'34	
retrograde	16544 Dec 29 19:58	11° ≈ 43'40		retrograde	16545 Dec 10 06:21	21° ට 26'38	
evening set	16545 Jan 02 05:29	11° ≈ 17'57		evening set	16545 Dec 12 15:02	21° ප 12'41	
inferior conj	16545 Jan 10 18:03	7° ≈ 27'41	-6°01'47	inferior conj	16545 Dec 21 09:47	17° ⋜ 18'48	-5°21'04
minimum elong	16545 Jan 10 16:20	7° ≈ 30'05	6°01'12	minimum elong	16545 Dec 21 00:43	17° ප 32'03	5°18'35
min. Earth dist.	16545 Jan 10 14:14	7° ≈ 33'01	0.54392 AU	min. Earth dist.	16545 Dec 22 19:38	16° පි 29'20	0.54612 AU
morning rise	16545 Jan 19 04:00	3° ≈ 40′18		morning rise	16545 Dec 29 10:01	13° る 19'56	
direct	16545 Jan 22 15:40	3° ≈ 13′29		direct	16546 Jan 03 00:02	12° る 34'40	
morning max el	16545 Feb 04 00:30	9° ≈ 13'04	21°54'02	morning max el	16546 Jan 16 11:03	19° る 11'39	23°42'38
asc. node	16545 Feb 08 18:36	14° ≈ 35′05			16546 Jan 25 08:10	0° ≈	
	16545 Feb 18 09:17	0°)		asc. node	16546 Jan 26 15:51	1° ≈ 59'29	
morning set	16545 Feb 24 22:01	13°) €08'22		morning set	16546 Feb 09 09:51	27°≈51'27	
					16546 Feb 10 09:45	0°)	
superior conj	16545 Mar 04 01:15	28° ¥ 16′51	1°12'46				
minimum elong	16545 Mar 04 03:40	28°) € 29'37	1°12'32	superior conj	16546 Feb 16 05:58	12°) 43′40	1°27'25
Č	16545 Mar 04 20:56	0° Υ		minimum elong	16546 Feb 16 07:49	12°) 53′40	1°27'29
max. Earth dist.	16545 Mar 08 06:24	6° Ƴ 58'27	1.34428 AU	max. Earth dist.	16546 Feb 19 01:59	18°) 48'47	1.32808 AU
evening rise	16545 Mar 12 12:04	15° Ƴ 18'14		evening rise	16546 Feb 23 23:18	28°) 54′08	
desc. node	16545 Mar 13 05:57	16° Ƴ 43'23			16546 Feb 24 12:31	0° Υ	
	16545 Mar 20 14:53	8°		desc. node	16546 Feb 28 02:39	6° Ƴ 56'14	
	16545 Apr 10 01:25	$\Pi^{\circ}0$			16546 Mar 13 18:16	9° 8	
	- -						

evening max el	16546 Mar 30 02:46	20° 8 33'38	27°27'23	max. Earth dist.	16547 Feb 02 04:22		1.31677 AU
retrograde	16546 Apr 12 20:08	28° 8 07'14		evening rise	16547 Feb 07 19:41	12° ¥ 51'17	
evening set	16546 Apr 19 13:35	25° 8 39'37		desc. node	16547 Feb 14 23:22	26°) 53'14	
min. Earth dist.	16546 Apr 23 08:48	22° 8 14'30	0.64321 AU		16547 Feb 16 16:26	0° Υ	
asc. node	16546 Apr 24 13:22	20° 8 59'18			16547 Mar 09 05:39	0°8	
inferior conj	16546 Apr 25 23:55	19° 8 26'33	0°26'48	evening max el	16547 Mar 12 13:18	3° 8 25'32	27°35'58
minimum elong	16546 Apr 25 23:10	19° 8 28'34	0°26'06	retrograde	16547 Mar 26 12:44	10° 8 54'55	
morning rise	16546 May 02 10:58	14° 8 04'57		evening set	16547 Apr 02 07:52	8°840'08	0.60100.177
direct	16546 May 05 01:08	13° 8 30'44		min. Earth dist.	16547 Apr 06 02:05	5° 8 40'09	0.62192 AU
morning max el	16546 May 11 09:02	16° 8 45′14 0° Ⅱ	1/5015	inferior conj	16547 Apr 09 02:57	2° 8 47'31 2° 8 43'55	
JJ.	16546 May 21 01:22	0°Щ 10°Щ04'28		minimum elong	16547 Apr 09 04:27	0° 8 40'24	0°44'05
desc. node	16546 May 27 03:24	10°Щ04°28 12°Щ20'32		asc. node	16547 Apr 11 10:36	0° 6 40°24 30° R Υ	
morning set	16546 May 28 11:50	12° щ 20′32		morning rise	16547 Apr 12 06:11	30° ₹ 1 27° Y 42'37	
	16546 Jun 08 03:59	0 29		direct	16547 Apr 16 04:10 16547 Apr 18 10:31	27 γ 42 37 27° Υ 19'17	
superior conj	16546 Jun 10 22:27	4°528'01	1942'03	direct	16547 Apr 24 08:43	0°8	
minimum elong	16546 Jun 10 13:57		1°41'49	morning max el	16547 Apr 25 02:30	0° 8 41'11	17°47'10
max. Earth dist.	16546 Jun 15 19:15	12° © 12'02	1.45369 AU	morning set	16547 May 11 00:38	25° 8 08'35	17 47 10
evening rise	16546 Jun 26 16:53	29°905'56	1.43309 AU	morning set	16547 May 13 18:55	0°Ⅱ	
evening rise	16546 Jun 27 07:02	0°Ω		desc. node	16547 May 14 00:17	0° П 23'32	
greatest brilliancy	16546 Jul 11 10:44	21° Ω 08'57	-0.6m	dese. Hode	10347 Way 14 00.17	0 112332	
greatest orimaney	16546 Jul 17 19:48	0° m)	0.0111	superior conj	16547 May 22 16:48	15° Ⅱ 18'37	-1°06'59
asc. node	16546 Jul 21 12:33	4° Mp 34'50		minimum elong	16547 May 22 10:42	14° I I53'02	
evening max el	16546 Jul 23 20:52	7° Mp 06'22	20°02'40	max. Earth dist.	16547 May 29 11:46	26° I I27'25	1.44063 AU
retrograde	16546 Jul 31 12:15	11° m/25'29			16547 May 31 16:56	0ංම 	
evening set	16546 Aug 04 10:52	9° m 56'13		evening rise	16547 Jun 06 05:33	8°539'42	
inferior conj	16546 Aug 09 17:45	3° m 55'33	3°00'24	8 11	16547 Jun 20 11:54	$0^{\circ}\Omega$	
minimum elong	16546 Aug 09 18:52	3° m 51'43	2°59'58	evening max el	16547 Jul 06 19:27	21° Ω 01'31	21°11'03
min. Earth dist.	16546 Aug 10 16:19	2° m/38'59	0.68183 AU	asc. node	16547 Jul 08 09:23	22° Ω 30'43	
	16546 Aug 12 17:36	30°R Ω		retrograde	16547 Jul 15 11:10	26° Ω 01'22	
morning rise	16546 Aug 15 02:27	27° Ω 29'58		evening set	16547 Jul 19 20:48	24° Ω 14'22	
direct	16546 Aug 20 16:53	25° Ω 03'33		inferior conj	16547 Jul 25 02:13	18° Ω 03'03	3°07'50
desc. node	16546 Aug 23 01:46	25° Ω 26′02		minimum elong	16547 Jul 25 02:24	18° Ω 02'23	3°07'23
	16546 Aug 30 04:50	0° m		min. Earth dist.	16547 Jul 25 11:22	17° Ω 31'12	0.68931 AU
morning max el	16546 Sep 01 06:21	1° m 58'48	24°33'54	morning rise	16547 Jul 30 07:44	11° £ 42'37	
	16546 Sep 22 14:18	0∘ ⊽		direct	16547 Aug 04 10:22	9° £ 30′09	
morning set	16546 Oct 06 20:07	23° ჲ 09'56		desc. node	16547 Aug 09 23:03	11° Ω 32'03	
max. Earth dist.	16546 Oct 10 09:35	29° ჲ 29'23	1.37617 AU	morning max el	16547 Aug 14 17:49	15° Ω 37'38	23°04'53
	16546 Oct 10 16:21	0° M.			16547 Aug 26 12:49	0° m	
					16547 Sep 15 13:28	0∘ ⊽	
superior conj	16546 Oct 17 11:49	12°M47'00		morning set	16547 Sep 18 01:05	4° ≙ 04'03	
minimum elong	16546 Oct 17 11:50	12°M47'06	0°00'16	max. Earth dist.			1.40043 AU
behind sun begin				max. Earth dist.	16547 Sep 22 08:37	11° ≏ 19'52	1.40043 AU
	16546 Oct 17 05:08	12° ™ 14'39					
behind sun end	16546 Oct 17 05:08 16546 Oct 17 18:33	13°M19'36		superior conj	16547 Sep 30 05:10	25° £ 16′00	-0°36'24
asc. node	16546 Oct 17 05:08 16546 Oct 17 18:33 16546 Oct 17 13:31	13°M 19'36 12°M 55'15			16547 Sep 30 05:10 16547 Sep 30 07:58	25° £ 16'00 25° £ 28'48	-0°36'24
	16546 Oct 17 05:08 16546 Oct 17 18:33 16546 Oct 17 13:31 16546 Oct 25 23:06	13°M19'36 12°M55'15 29°M36'10		superior conj minimum elong	16547 Sep 30 05:10 16547 Sep 30 07:58 16547 Oct 02 18:32	25° £ 16′00 25° £ 28′48 0° ™	-0°36'24
asc. node evening rise	16546 Oct 17 05:08 16546 Oct 17 18:33 16546 Oct 17 13:31 16546 Oct 25 23:06 16546 Oct 26 03:52	13°M19'36 12°M55'15 29°M36'10 0°X'		superior conj minimum elong asc. node	16547 Sep 30 05:10 16547 Sep 30 07:58 16547 Oct 02 18:32 16547 Oct 04 10:15	25° £ 16′00 25° £ 28′48 0° ™ 3° ™ 06′39	-0°36'24
asc. node	16546 Oct 17 05:08 16546 Oct 17 18:33 16546 Oct 17 13:31 16546 Oct 25 23:06 16546 Oct 26 03:52 16546 Nov 11 17:49	13°M19'36 12°M55'15 29°M36'10 0° *\displaystyle 27° \displaystyle 12'08	19°19'57	superior conj minimum elong	16547 Sep 30 05:10 16547 Sep 30 07:58 16547 Oct 02 18:32 16547 Oct 04 10:15 16547 Oct 09 18:58	25° 1 6′00 25° 2 28′48 0° M 3° M 06′39 13° M 21′01	-0°36'24
asc. node evening rise evening max el	16546 Oct 17 05:08 16546 Oct 17 18:33 16546 Oct 17 13:31 16546 Oct 25 23:06 16546 Oct 26 03:52 16546 Nov 11 17:49 16546 Nov 15 03:12	13°M19'36 12°M55'15 29°M36'10 0° ₹ 27° ₹ 12'08 0° ₹		superior conj minimum elong asc. node evening rise	16547 Sep 30 05:10 16547 Sep 30 07:58 16547 Oct 02 18:32 16547 Oct 04 10:15 16547 Oct 09 18:58 16547 Oct 18 21:57	25° № 16'00 25° № 28'48 0° M. 3° M.06'39 13° M.21'01 0° 🗷	-0°36'24 0°35'43
asc. node evening rise evening max el desc. node	16546 Oct 17 05:08 16546 Oct 17 18:33 16546 Oct 17 13:31 16546 Oct 25 23:06 16546 Oct 26 03:52 16546 Nov 11 17:49 16546 Nov 15 03:12 16546 Nov 18 23:24	13°M19'36 12°M55'15 29°M36'10 0°ズ 27°ズ12'08 0°る 1°る40'15		superior conj minimum elong asc. node evening rise evening max el	16547 Sep 30 05:10 16547 Sep 30 07:58 16547 Oct 02 18:32 16547 Oct 04 10:15 16547 Oct 09 18:58 16547 Oct 18 21:57 16547 Oct 25 18:38	25° № 16'00 25° № 28'48 0° № 3° № 06'39 13° № 21'01 0° ৵ 9° ৵ 15'11	-0°36'24
asc. node evening rise evening max el desc. node retrograde	16546 Oct 17 05:08 16546 Oct 17 18:33 16546 Oct 17 13:31 16546 Oct 25 23:06 16546 Oct 26 03:52 16546 Nov 11 17:49 16546 Nov 15 03:12 16546 Nov 18 23:24 16546 Nov 21 03:19	13°M19'36 12°M55'15 29°M36'10 0°ズ 27°ズ12'08 0°उ 1°उ40'15 1°उ54'48		superior conj minimum elong asc. node evening rise evening max el retrograde	16547 Sep 30 05:10 16547 Sep 30 07:58 16547 Oct 02 18:32 16547 Oct 04 10:15 16547 Oct 09 18:58 16547 Oct 18 21:57 16547 Oct 25 18:38 16547 Nov 02 18:39	25° № 16'00 25° № 28'48 0° № 3° № 06'39 13° № 21'01 0° ※ 9° ※ 15'11 13° ※ 18'37	-0°36'24 0°35'43
asc. node evening rise evening max el desc. node	16546 Oct 17 05:08 16546 Oct 17 18:33 16546 Oct 17 13:31 16546 Oct 25 23:06 16546 Oct 26 03:52 16546 Nov 11 17:49 16546 Nov 15 03:12 16546 Nov 18 23:24 16546 Nov 21 03:19 16546 Nov 23 01:28	13°M19'36 12°M55'15 29°M36'10 0°ズ 27°ズ12'08 0°उ 1°उ40'15 1°उ54'48 1°उ43'50		superior conj minimum elong asc. node evening rise evening max el retrograde evening set	16547 Sep 30 05:10 16547 Sep 30 07:58 16547 Oct 02 18:32 16547 Oct 04 10:15 16547 Oct 09 18:58 16547 Oct 18 21:57 16547 Oct 25 18:38 16547 Nov 02 18:39 16547 Nov 04 17:30	25° △ 16'00 25° △ 28'48 0° M 3° M .06'39 13° M .21'01 0° ⋄ 9° ⋄ 15'11 13° ⋄ 18'37 13° ⋄ 04'54	-0°36'24 0°35'43
asc. node evening rise evening max el desc. node retrograde evening set	16546 Oct 17 05:08 16546 Oct 17 18:33 16546 Oct 17 13:31 16546 Oct 25 23:06 16546 Oct 26 03:52 16546 Nov 11 17:49 16546 Nov 15 03:12 16546 Nov 21 03:19 16546 Nov 23 01:28 16546 Nov 27 15:59	13°M19'36 12°M55'15 29°M36'10 0°ダ 27°ダ12'08 0°℧ 1°℧40'15 1°℧54'48 1°℧43'50 30°Rダ	19°19'57	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node	16547 Sep 30 05:10 16547 Sep 30 07:58 16547 Oct 02 18:32 16547 Oct 04 10:15 16547 Oct 09 18:58 16547 Oct 18 21:57 16547 Oct 25 18:38 16547 Nov 02 18:39 16547 Nov 04 17:30 16547 Nov 05 20:34	25° △ 16'00 25° △ 28'48 0° M 3° M .06'39 13° M .21'01 0° ⋄ 7 9° ⋄ 7 15'11 13° ⋄ 7 18'37 13° ⋄ 7 04'54 12° ⋄ 7 45'08	-0°36'24 0°35'43 18°33'08
asc. node evening rise evening max el desc. node retrograde evening set inferior conj	16546 Oct 17 05:08 16546 Oct 17 18:33 16546 Oct 17 13:31 16546 Oct 25 23:06 16546 Oct 26 03:52 16546 Nov 11 17:49 16546 Nov 15 03:12 16546 Nov 21 03:19 16546 Nov 23 01:28 16546 Nov 27 15:59 16546 Dec 01 14:24	13°M19'36 12°M55'15 29°M36'10 0°ダ 27°ダ12'08 0°℧ 1°℧40'15 1°℧54'48 1°℧43'50 30°Rダ 27°ダ35'20	19°19'57 -3°54'11	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj	16547 Sep 30 05:10 16547 Sep 30 07:58 16547 Oct 02 18:32 16547 Oct 04 10:15 16547 Oct 09 18:58 16547 Oct 18 21:57 16547 Oct 25 18:38 16547 Nov 02 18:39 16547 Nov 04 17:30 16547 Nov 05 20:34 16547 Nov 12 15:37	25° № 16'00 25° № 28'48 0° M. 3° M.06'39 13° M.21'01 0° ¾ 9° ¾ 15'11 13° ¾ 18'37 13° ¾ 04'54 12° ¾ 45'08 8° ¾ 35'30	-0°36'24 0°35'43 18°33'08
asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong	16546 Oct 17 05:08 16546 Oct 17 18:33 16546 Oct 17 13:31 16546 Oct 25 23:06 16546 Oct 26 03:52 16546 Nov 11 17:49 16546 Nov 15 03:12 16546 Nov 21 03:19 16546 Nov 23 01:28 16546 Nov 27 15:59 16546 Dec 01 14:24 16546 Dec 01 05:11	13°M19'36 12°M55'15 29°M36'10 0°ダ 27°ダ12'08 0°℧ 1°℧40'15 1°℧54'48 1°℧43'50 30°Rダ 27°ダ35'20 27°ダ35'20	19°19'57 -3°54'11 3°50'29	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong	16547 Sep 30 05:10 16547 Sep 30 07:58 16547 Oct 02 18:32 16547 Oct 04 10:15 16547 Oct 09 18:58 16547 Oct 18 21:57 16547 Oct 25 18:38 16547 Nov 02 18:39 16547 Nov 04 17:30 16547 Nov 05 20:34 16547 Nov 12 15:37 16547 Nov 12 15:37	25° № 16'00 25° № 28'48 0° M. 3° M.06'39 13° M.21'01 0° ¾ 9° ¾ 15'11 13° ¾ 18'37 13° ¾ 04'54 12° ¾ 45'08 8° ¾ 35'30 8° ¾ 45'32	-0°36'24 0°35'43 18°33'08 -2°11'21 2°08'43
asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist.	16546 Oct 17 05:08 16546 Oct 17 18:33 16546 Oct 17 13:31 16546 Oct 25 23:06 16546 Oct 26 03:52 16546 Nov 11 17:49 16546 Nov 15 03:12 16546 Nov 21 03:19 16546 Nov 23 01:28 16546 Nov 27 15:59 16546 Dec 01 14:24 16546 Dec 01 05:11 16546 Dec 04 04:39	13°M19'36 12°M55'15 29°M36'10 0°ダ 27°ダ12'08 0°♂ 1°♂40'15 1°♂54'48 1°♂43'50 30°Rダ 27°ダ35'20 27°ダ50'31 25°ダ53'01	19°19'57 -3°54'11	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist.	16547 Sep 30 05:10 16547 Sep 30 07:58 16547 Oct 02 18:32 16547 Oct 04 10:15 16547 Oct 09 18:58 16547 Oct 18 21:57 16547 Oct 25 18:38 16547 Nov 02 18:39 16547 Nov 04 17:30 16547 Nov 12 15:37 16547 Nov 12 15:37 16547 Nov 12 10:23 16547 Nov 15 19:46	25° № 16'00 25° № 28'48 0° M. 3° M.06'39 13° M.21'01 0° ♂ 9° ♂ 15'11 13° ♂ 18'37 13° ♂ 04'54 12° ♂ 45'08 8° ♂ 35'30 8° ♂ 45'32 6° ♂ 10'10	-0°36'24 0°35'43 18°33'08
asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	16546 Oct 17 05:08 16546 Oct 17 18:33 16546 Oct 17 13:31 16546 Oct 25 23:06 16546 Oct 26 03:52 16546 Nov 11 17:49 16546 Nov 15 03:12 16546 Nov 21 03:19 16546 Nov 23 01:28 16546 Nov 27 15:59 16546 Dec 01 14:24 16546 Dec 01 05:11 16546 Dec 04 04:39 16546 Dec 09 06:39	13°M19'36 12°M55'15 29°M36'10 0°メ 27°メ12'08 0°♂ 1°♂40'15 1°♂54'48 1°♂43'50 30°Rメ 27°メ35'20 27°メ55'31 25°メ55'01 23°メ707'28	19°19'57 -3°54'11 3°50'29	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	16547 Sep 30 05:10 16547 Sep 30 07:58 16547 Oct 02 18:32 16547 Oct 04 10:15 16547 Oct 09 18:58 16547 Oct 18 21:57 16547 Oct 25 18:38 16547 Nov 02 18:39 16547 Nov 04 17:30 16547 Nov 12 15:37 16547 Nov 12 10:23 16547 Nov 15 19:46 16547 Nov 19 23:58	25° № 16'00 25° № 28'48 0° M. 3° M.06'39 13° M.21'01 0° ♂ 9° ♂ 15'11 13° ♂ 18'37 13° ♂ 04'54 12° ♂ 45'08 8° ♂ 35'30 8° ♂ 45'32 6° ♂ 10'10 3° ♂ 31'19	-0°36'24 0°35'43 18°33'08 -2°11'21 2°08'43
asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	16546 Oct 17 05:08 16546 Oct 17 18:33 16546 Oct 17 13:31 16546 Oct 25 23:06 16546 Oct 26 03:52 16546 Nov 11 17:49 16546 Nov 15 03:12 16546 Nov 21 03:19 16546 Nov 23 01:28 16546 Nov 27 15:59 16546 Dec 01 14:24 16546 Dec 01 05:11 16546 Dec 04 04:39 16546 Dec 09 06:39 16546 Dec 14 19:27	13°M19'36 12°M55'15 29°M36'10 0°メ 27°メ12'08 0°℧ 1°℧40'15 1°℧54'48 1°℧43'50 30°Rメ 27°メ35'20 27°メ50'31 25°メ55'01 23°メ707'28 21°メ55'40	19°19'57 -3°54'11 3°50'29 0.55736 AU	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	16547 Sep 30 05:10 16547 Sep 30 07:58 16547 Oct 02 18:32 16547 Oct 04 10:15 16547 Oct 09 18:58 16547 Oct 18 21:57 16547 Oct 25 18:38 16547 Nov 02 18:39 16547 Nov 04 17:30 16547 Nov 12 15:37 16547 Nov 12 10:23 16547 Nov 15 19:46 16547 Nov 19 23:58 16547 Nov 19 23:58	25° № 16'00 25° № 28'48 0° M. 3° M.06'39 13° M.21'01 0° ¾ 9° ¾ 15'11 13° ¾ 18'37 13° ¾ 04'54 12° ¾ 45'08 8° ¾ 35'30 8° ¾ 45'32 6° ¾ 10'10 3° ¾ 31'19 1° ¾ 54'40	-0°36'24 0°35'43 18°33'08 -2°11'21 2°08'43 0.57549 AU
asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	16546 Oct 17 05:08 16546 Oct 17 18:33 16546 Oct 17 13:31 16546 Oct 25 23:06 16546 Oct 26 03:52 16546 Nov 11 17:49 16546 Nov 18 23:24 16546 Nov 21 03:19 16546 Nov 23 01:28 16546 Dec 01 05:11 16546 Dec 01 05:11 16546 Dec 04 04:39 16546 Dec 04 04:39 16546 Dec 14 19:27 16546 Dec 28 19:51	13°M19'36 12°M55'15 29°M36'10 0°ズ 27°ズ12'08 0°云 1°云40'15 1°云54'48 1°云43'50 30°Rズ 27°ズ35'20 27°ズ50'31 25°ズ53'01 23°ズ07'28 21°ズ57'40 29°ズ03'45	19°19'57 -3°54'11 3°50'29	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	16547 Sep 30 05:10 16547 Sep 30 07:58 16547 Oct 02 18:32 16547 Oct 04 10:15 16547 Oct 09 18:58 16547 Oct 18 21:57 16547 Oct 25 18:38 16547 Nov 02 18:39 16547 Nov 04 17:30 16547 Nov 12 15:37 16547 Nov 12 15:37 16547 Nov 15 19:46 16547 Nov 19 23:58 16547 Nov 19 23:58 16547 Nov 26 05:00 16547 Dec 10 10:29	25° № 16'00 25° № 28'48 0° M. 3° M.06'39 13° M.21'01 0° ¾ 9° ¾ 15'11 13° ¾ 18'37 13° ¾ 04'54 12° ¾ 45'08 8° ¾ 35'30 8° ¾ 45'32 6° ¾ 10'10 3° ¾ 31'19 1° ¾ 54'40 9° ¾ 22'44	-0°36'24 0°35'43 18°33'08 -2°11'21 2°08'43
asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	16546 Oct 17 05:08 16546 Oct 17 18:33 16546 Oct 17 13:31 16546 Oct 25 23:06 16546 Oct 26 03:52 16546 Nov 11 17:49 16546 Nov 18 23:24 16546 Nov 21 03:19 16546 Nov 23 01:28 16546 Dec 01 14:24 16546 Dec 01 14:24 16546 Dec 04 04:39 16546 Dec 04 04:39 16546 Dec 14 19:27 16546 Dec 28 19:51 16546 Dec 29 18:46	13°M19'36 12°M55'15 29°M36'10 0°ズ 27°ズ12'08 0°G 1°G40'15 1°G54'48 1°G43'50 30°Rズ 27°ズ35'20 27°ズ55'31 25°ズ53'01 23°ズ07'28 21°ズ57'40 29°ズ03'45 0°G	19°19'57 -3°54'11 3°50'29 0.55736 AU	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	16547 Sep 30 05:10 16547 Sep 30 07:58 16547 Oct 02 18:32 16547 Oct 04 10:15 16547 Oct 09 18:58 16547 Oct 18 21:57 16547 Oct 25 18:38 16547 Nov 02 18:39 16547 Nov 04 17:30 16547 Nov 12 15:37 16547 Nov 12 15:37 16547 Nov 15 19:46 16547 Nov 19 23:58 16547 Nov 19 23:58 16547 Nov 26 05:00 16547 Dec 10 10:29 16547 Dec 26 02:54	25° № 16'00 25° № 28'48 0° M. 3° M.06'39 13° M.21'01 0° ¾ 9° ¾ 15'11 13° ¾ 18'37 13° ¾ 04'54 12° ¾ 45'08 8° ¾ 35'30 8° ¾ 45'32 6° ¾ 10'10 3° ¾ 31'19 1° ¾ 54'40	-0°36'24 0°35'43 18°33'08 -2°11'21 2°08'43 0.57549 AU
asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	16546 Oct 17 05:08 16546 Oct 17 18:33 16546 Oct 17 13:31 16546 Oct 25 23:06 16546 Oct 26 03:52 16546 Nov 11 17:49 16546 Nov 18 23:24 16546 Nov 21 03:19 16546 Nov 23 01:28 16546 Dec 01 05:11 16546 Dec 01 05:11 16546 Dec 04 04:39 16546 Dec 04 04:39 16546 Dec 14 19:27 16546 Dec 28 19:51	13°M19'36 12°M55'15 29°M36'10 0°ズ 27°ズ12'08 0°云 1°云40'15 1°云54'48 1°云43'50 30°Rズ 27°ズ35'20 27°ズ50'31 25°ズ53'01 23°ズ07'28 21°ズ57'40 29°ズ03'45	19°19'57 -3°54'11 3°50'29 0.55736 AU	superior conj 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	16547 Sep 30 05:10 16547 Sep 30 07:58 16547 Oct 02 18:32 16547 Oct 04 10:15 16547 Oct 09 18:58 16547 Oct 18 21:57 16547 Oct 25 18:38 16547 Nov 02 18:39 16547 Nov 04 17:30 16547 Nov 12 15:37 16547 Nov 12 10:23 16547 Nov 15 19:46 16547 Nov 19 23:58 16547 Nov 19 23:58 16547 Nov 26 05:00 16547 Dec 10 10:29 16547 Dec 26 02:54 16547 Dec 31 10:10	25° ♣16'00 25° ♣28'48 0° M. 3° M.06'39 13° M.21'01 0° ♂ 9° ♂ 15'11 13° ♂ 18'37 13° ♂ 04'54 12° ♂ 45'08 8° ♂ 45'32 6° ♂ 10'10 3° ♂ 31'19 1° ♂ 54'40 9° ♂ 22'44 0° ♂ 9° ♂ 12'08	-0°36'24 0°35'43 18°33'08 -2°11'21 2°08'43 0.57549 AU
asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	16546 Oct 17 05:08 16546 Oct 17 18:33 16546 Oct 17 13:31 16546 Oct 25 23:06 16546 Oct 26 03:52 16546 Nov 11 17:49 16546 Nov 18 23:24 16546 Nov 21 03:19 16546 Nov 23 01:28 16546 Nov 27 15:59 16546 Dec 01 14:24 16546 Dec 01 05:11 16546 Dec 04 04:39 16546 Dec 14 19:27 16546 Dec 28 19:51 16546 Dec 29 18:46 16547 Jan 13 13:02	13°M19'36 12°M55'15 29°M36'10 0°ズ 27°ズ12'08 0°G 1°G40'15 1°G54'48 1°G43'50 30°Rズ 27°ズ35'20 27°ズ50'31 25°ズ53'01 23°ズ07'28 21°ズ57'40 29°ズ03'45 0°G 20°G16'28	19°19'57 -3°54'11 3°50'29 0.55736 AU	superior conj 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	16547 Sep 30 05:10 16547 Sep 30 07:58 16547 Oct 02 18:32 16547 Oct 04 10:15 16547 Oct 09 18:58 16547 Oct 18 21:57 16547 Oct 25 18:38 16547 Nov 02 18:39 16547 Nov 04 17:30 16547 Nov 12 15:37 16547 Nov 12 15:37 16547 Nov 15 19:46 16547 Nov 19 23:58 16547 Nov 19 23:58 16547 Nov 26 05:00 16547 Dec 10 10:29 16547 Dec 26 02:54	25° ♣16'00 25° ♣28'48 0° M. 3° M.06'39 13° M.21'01 0° ♂ 9° ♂ 15'11 13° ♂ 18'37 13° ♂ 04'54 12° ♂ 45'08 8° ♂ 35'30 8° ♂ 45'32 6° ♂ 10'10 3° ♂ 31'19 1° ♂ 54'40 9° ♂ 22'44 0° ♂	-0°36'24 0°35'43 18°33'08 -2°11'21 2°08'43 0.57549 AU
asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	16546 Oct 17 05:08 16546 Oct 17 18:33 16546 Oct 17 13:31 16546 Oct 25 23:06 16546 Oct 26 03:52 16546 Nov 11 17:49 16546 Nov 18 23:24 16546 Nov 21 03:19 16546 Nov 23 01:28 16546 Nov 27 15:59 16546 Dec 01 14:24 16546 Dec 01 05:11 16546 Dec 04 04:39 16546 Dec 14 19:27 16546 Dec 28 19:51 16546 Dec 29 18:46 16547 Jan 13 13:02 16547 Jan 18 20:06	13°M19'36 12°M55'15 29°M36'10 0°ズ 27°ズ12'08 0°G 1°G40'15 1°G54'48 1°G43'50 30°Rズ 27°ズ35'20 27°ズ50'31 25°ズ53'01 23°ズ07'28 21°ズ57'40 29°ズ03'45 0°G 20°G16'28 0°※	19°19'57 -3°54'11 3°50'29 0.55736 AU	superior conj 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	16547 Sep 30 05:10 16547 Sep 30 07:58 16547 Oct 02 18:32 16547 Oct 04 10:15 16547 Oct 09 18:58 16547 Oct 18 21:57 16547 Oct 25 18:38 16547 Nov 02 18:39 16547 Nov 04 17:30 16547 Nov 12 15:37 16547 Nov 12 10:23 16547 Nov 15 19:46 16547 Nov 16 19:46 16547 Nov 17 19:46 16547 Nov 18 19:46 16547 Nov 19 23:58 16547 Nov 26 05:00 16547 Dec 10 10:29 16547 Dec 26 02:54 16547 Dec 31 10:10 16548 Jan 09 07:11	25° ♣16'00 25° ♣28'48 0° M. 3° M.06'39 13° M.21'01 0° ¾ 9° ¾15'11 13° ¾18'37 13° ¾04'54 12° ¾45'08 8° ¾35'30 8° ¾45'32 6° ¾10'10 3° ¾31'19 1° ¾54'40 9° ¾22'44 0° ♂ 9° ♂ 12'08 26° ♂ 58'04	-0°36'24 0°35'43 18°33'08 -2°11'21 2°08'43 0.57549 AU
asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	16546 Oct 17 05:08 16546 Oct 17 18:33 16546 Oct 17 13:31 16546 Oct 25 23:06 16546 Oct 26 03:52 16546 Nov 11 17:49 16546 Nov 18 23:24 16546 Nov 21 03:19 16546 Nov 23 01:28 16546 Nov 27 15:59 16546 Dec 01 14:24 16546 Dec 01 05:11 16546 Dec 04 04:39 16546 Dec 14 19:27 16546 Dec 28 19:51 16546 Dec 29 18:46 16547 Jan 13 13:02 16547 Jan 18 20:06	13°M19'36 12°M55'15 29°M36'10 0°ズ 27°ズ12'08 0°G 1°G40'15 1°G54'48 1°G43'50 30°Rズ 27°ズ35'20 27°ズ50'31 25°ズ53'01 23°ズ07'28 21°ズ57'40 29°ズ03'45 0°G 20°G16'28 0°※	19°19'57 -3°54'11 3°50'29 0.55736 AU	superior conj 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	16547 Sep 30 05:10 16547 Sep 30 07:58 16547 Oct 02 18:32 16547 Oct 04 10:15 16547 Oct 09 18:58 16547 Oct 18 21:57 16547 Oct 25 18:38 16547 Nov 02 18:39 16547 Nov 04 17:30 16547 Nov 12 15:37 16547 Nov 12 10:23 16547 Nov 15 19:46 16547 Nov 16 19:46 16547 Nov 17 19:46 16547 Nov 18 19:46 16547 Nov 19 23:58 16547 Nov 26 05:00 16547 Dec 10 10:29 16547 Dec 26 02:54 16547 Dec 31 10:10 16548 Jan 09 07:11	25° ♣16'00 25° ♣28'48 0° M. 3° M.06'39 13° M.21'01 0° ¾ 9° ¾15'11 13° ¾18'37 13° ¾04'54 12° ¾45'08 8° ¾35'30 8° ¾45'32 6° ¾10'10 3° ¾31'19 1° ¾54'40 9° ¾22'44 0° ♂ 9° ♂ 12'08 26° ♂ 58'04	-0°36'24 0°35'43 18°33'08 -2°11'21 2°08'43 0.57549 AU
asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	16546 Oct 17 18:33 16546 Oct 17 18:33 16546 Oct 17 13:31 16546 Oct 25 23:06 16546 Oct 26 03:52 16546 Nov 11 17:49 16546 Nov 15 03:12 16546 Nov 21 03:19 16546 Nov 23 01:28 16546 Nov 27 15:59 16546 Dec 01 14:24 16546 Dec 01 05:11 16546 Dec 04 04:39 16546 Dec 14 19:27 16546 Dec 28 19:51 16546 Dec 29 18:46 16547 Jan 13 13:02 16547 Jan 18 20:06 16547 Jan 24 21:30	13°M19'36 12°M55'15 29°M36'10 0°ズ 27°ズ12'08 0°궁 1°♂40'15 1°♂54'48 1°♂43'50 30°Rズ 27°ズ35'20 27°ズ55'31 25°ズ53'01 23°ズ07'28 21°ズ57'40 29°ズ03'45 0°云 20°♂16'28 0°≈ 12°≈29'44	19°19'57 -3°54'11 3°50'29 0.55736 AU 25°29'29	superior conj 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	16547 Sep 30 05:10 16547 Sep 30 07:58 16547 Oct 02 18:32 16547 Oct 04 10:15 16547 Oct 09 18:58 16547 Oct 18 21:57 16547 Oct 25 18:38 16547 Nov 02 18:39 16547 Nov 04 17:30 16547 Nov 12 15:37 16547 Nov 12 10:23 16547 Nov 15 19:46 16547 Nov 19 23:58 16547 Nov 26 05:00 16547 Dec 10 10:29 16547 Dec 26 02:54 16547 Dec 31 10:10 16548 Jan 09 07:11 16548 Jan 10 16:47	25° ♣16'00 25° ♣28'48 0° M 3° M.06'39 13° M.21'01 0° ♣ 9° ♣15'11 13° ♣18'37 13° ♣04'54 12° ♣45'08 8° ♣35'30 8° ♣45'32 6° ♣10'10 3° ♣31'19 1° ♣54'40 9° ♣22'44 0° ₺ 9° ₺12'08 26° ₺58'04 0° €	-0°36'24 0°35'43 18°33'08 -2°11'21 2°08'43 0.57549 AU 26°55'28
asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj	16546 Oct 17 18:33 16546 Oct 17 18:33 16546 Oct 17 13:31 16546 Oct 25 23:06 16546 Oct 26 03:52 16546 Nov 11 17:49 16546 Nov 15 03:12 16546 Nov 21 03:19 16546 Nov 23 01:28 16546 Nov 27 15:59 16546 Dec 01 14:24 16546 Dec 01 05:11 16546 Dec 04 04:39 16546 Dec 14 19:27 16546 Dec 28 19:51 16546 Dec 29 18:46 16547 Jan 13 13:02 16547 Jan 14:54	13°M19'36 12°M55'15 29°M36'10 0°ズ 27°ズ12'08 0°G 1°G40'15 1°G54'48 1°G43'50 30°Rズ 27°ズ35'20 27°ズ55'31 25°ズ55'01 23°ズ07'28 21°ズ57'40 29°ズ03'45 0°G 12°≈29'44 27°≈19'22	19°19'57 -3°54'11 3°50'29 0.55736 AU 25°29'29	superior conj 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	16547 Sep 30 05:10 16547 Sep 30 07:58 16547 Oct 02 18:32 16547 Oct 04 10:15 16547 Oct 09 18:58 16547 Oct 18 21:57 16547 Oct 25 18:38 16547 Nov 02 18:39 16547 Nov 04 17:30 16547 Nov 12 15:37 16547 Nov 12 10:23 16547 Nov 15 19:46 16547 Nov 16 19:46 16547 Nov 17 19:46 16547 Nov 18 19:46 16547 Nov 19 23:58 16547 Nov 26 05:00 16547 Dec 10 10:29 16547 Dec 26 02:54 16548 Jan 09 07:11 16548 Jan 10 16:47	25° 16'00 25° 228'48 0° M 3° M 06'39 13° M 21'01 0° ズ 9° ズ 15'11 13° ズ 18'37 13° ズ 04'54 12° ズ 45'08 8° ズ 35'30 8° ズ 45'32 6° ズ 10'10 3° ズ 31'19 1° ズ 54'40 9° ズ 22'44 0° 云 9° 云 12'08 26° 云 58'04 0° ※	-0°36'24 0°35'43 18°33'08 -2°11'21 2°08'43 0.57549 AU 26°55'28

evening rise	16548 Jan 22 22:41	27°≈03'09		evening rise	16549 Jan 06 06:10	11° ≈ 24'35	
	16548 Jan 24 08:17	0° ∀			16549 Jan 15 13:20	0° ∀	
desc. node	16548 Feb 01 20:08	16°) €27'41		desc. node	16549 Jan 18 16:56	5°) 30′57	
	16548 Feb 10 03:11	0° Y		evening max el	16549 Feb 03 17:00	26°) 49′00	26°10'09
evening max el	16548 Feb 22 18:57	15° Ƴ 33'39	27°10'34		16549 Feb 07 11:33	0 ° Υ	
retrograde	16548 Mar 07 20:07	22° Y 52'40		retrograde	16549 Feb 17 16:20	3° Y 55'03	
evening set	16548 Mar 14 11:12	20° Ƴ 57'50		evening set	16549 Feb 23 20:10	2° Y 25'13	
min. Earth dist.	16548 Mar 18 09:14	18° Ƴ 14'43	0.59924 AU		16549 Feb 27 22:43	30° ₹	
inferior conj	16548 Mar 21 14:42	15° Ƴ 34'16	-2°08'56	min. Earth dist.	16549 Feb 28 06:08	29° ¥ 47'15	0.57735 AU
minimum elong	16548 Mar 21 19:35	15° Ƴ 24'07	2°07'07	inferior conj	16549 Mar 03 07:28	27°) € 36'03	
asc. node	16548 Mar 28 07:52	11° Υ 07'38	2 07 07	minimum elong	16549 Mar 03 15:52	27° ∺ 20'59	
	16548 Mar 29 07:33	10° Υ 48'44		_	16549 Mar 11 14:50	23°\(\)12'08	3 37 30
morning rise				morning rise			
direct	16548 Mar 31 08:12	10° Y 32'39		direct	16549 Mar 13 13:44	22°) 59'39	
morning max el	16548 Apr 07 17:08	14° Y 13'15	18°02'43	asc. node	16549 Mar 15 05:11	23° 米 08′52	
	16548 Apr 18 11:55	9° 8		morning max el	16549 Mar 22 01:02	27° ₩ 09'57	18°38'28
morning set	16548 Apr 23 07:01	8° 8 44'51			16549 Mar 24 14:03	0 ° Υ	
desc. node	16548 Apr 29 21:09	20° 8 50'56		morning set	16549 Apr 07 01:41	22° Y 53'05	
					16549 Apr 10 17:56	0°B	
superior conj	16548 May 03 10:24	27° 8 12'08	-0°29'12		1		
minimum elong	16548 May 03 07:57	27° 8 01'18	0°29'17	superior conj	16549 Apr 16 00:04	9° 8 59'07	0°06'18
minimum crong	16548 May 05 00:40	0°II	0 25 17	minimum elong	16549 Apr 16 00:29	10° 8 01'02	0°05'54
Fauth 4:-4	•	10° Ⅱ 11'39	1 40015 ATT	•	•	9° 8 30'31	0 03 34
max. Earth dist.	16548 May 11 00:16		1.42215 AU	behind sun begin	16549 Apr 15 17:57	_	
evening rise	16548 May 16 09:14	18° ∏ 57′22		behind sun end	16549 Apr 16 07:01	10° 8 31'28	
	16548 May 23 11:11	0ංම		desc. node	16549 Apr 16 17:56	11° 8 22'04	
	16548 Jun 14 01:02	$0 {\circ} \Omega$		max. Earth dist.	16549 Apr 23 08:32	23° 8 14'31	1.40018 AU
evening max el	16548 Jun 18 13:02	4° Ω 57'09	22°28'46	evening rise	16549 Apr 27 09:46	0° Ⅱ 09'40	
asc. node	16548 Jun 24 06:18	9° Ω 30′10			16549 Apr 27 07:28	$\Pi^{\circ}0$	
retrograde	16548 Jun 28 08:35	10° Ω 41'30			16549 May 16 20:29	0ංම	
evening set	16548 Jul 03 05:48	8° Ω 38′03		evening max el	16549 Jun 01 03:26	18° © 52'30	23°50'26
inferior conj	16548 Jul 08 12:12	2° Ω 17'40	3°04'27	asc. node	16549 Jun 11 03:18	25°914'57	
minimum elong	16548 Jul 08 11:27	2°Ω20'15	3°03'52	retrograde	16549 Jun 12 03:15	25°919'11	
•				•			
min. Earth dist.	16548 Jul 08 08:10	2° Ω 31'41	0.69189 AU	evening set	16549 Jun 17 12:10	23°901'42	0.60040.441
	16548 Jul 10 04:22	30° ₹ 55		min. Earth dist.	16549 Jun 22 04:37	17° © 32'59	0.68949 AU
morning rise	16548 Jul 13 16:58	26°504'35		inferior conj	16549 Jun 22 21:45	16° © 34'28	2°50'39
direct	16548 Jul 18 07:28	24° © 09'48		minimum elong	16549 Jun 22 20:12	16° © 39'45	2°49'49
desc. node	16548 Jul 26 20:18	28° © 55'34		morning rise	16549 Jun 28 04:16	10° © 30'11	
morning max el	16548 Jul 27 08:24	29° © 25'19	21°38'38	direct	16549 Jul 02 06:50	8° 9 54'51	
	16548 Jul 27 22:03	$0^{\circ}\Omega$		morning max el	16549 Jul 10 04:51	13° 5 23'16	20°21'38
	16548 Aug 19 04:47	0° m		desc. node	16549 Jul 13 17:30	17° © 16'11	
morning set	16548 Aug 28 06:29	13° m 59'02			16549 Jul 23 05:25	$0^{\circ}\Omega$	
max. Earth dist.	16548 Sep 03 13:05	24° Mp 06'04	1.42327 AU	morning set	16549 Aug 07 16:30	23° Ω 06'37	
max. Earth dist.	16548 Sep 07 02:09	0° ए	1.42527 710	morning set	•	0° m)	
	10348 Sep 07 02.09	0 ==		E 4 E 4	16549 Aug 12 03:03		1 44105 ATT
	16710 0 11 02 21	60.0.5510.4	1010101	max. Earth dist.	16549 Aug 17 00:13	7° m) 42'57	1.44195 AU
superior conj	16548 Sep 11 03:21	6° £ 55'04					
minimum elong	16548 Sep 11 09:27	7° ≏ 21'28	1°12'39	superior conj	16549 Aug 23 02:37	17° m 35'51	-1°46'54
asc. node	16548 Sep 20 07:01	23° ≏ 13'18		minimum elong	16549 Aug 23 10:36	18° Mp 08'42	1°46'19
evening rise	16548 Sep 22 03:35	26° ≏ 36′28			16549 Aug 30 12:18	0∘ ⊽	
	16548 Sep 24 00:15	0° M		evening rise	16549 Sep 04 20:08	9° ₽ 10′01	
evening max el	16548 Oct 08 04:10	21°M58'36	18°07'24	asc. node	16549 Sep 07 03:45	13° ≏ 10'54	
retrograde	16548 Oct 15 04:56	25°M35'05			16549 Sep 17 11:38	0° M .	
evening set	16548 Oct 17 09:36	25°M14'25		evening max el	16549 Sep 21 18:12	5° M ₊12'07	18°01'15
desc. node	16548 Oct 22 17:46	22°M00'17		retrograde	16549 Sep 28 06:15	8°M34'58	
inferior conj	16548 Oct 24 14:21	20°M23'30	-0°35'42	evening set	16549 Sep 30 18:39	8°ML03'44	
minimum elong		20°M26'16		•	16549 Oct 07 07:35	2°M53'41	0°42'40
C	16548 Oct 24 13:06			inferior conj			
min. Earth dist.	16548 Oct 27 19:29	17°M32'12	0.59747 AU	minimum elong	16549 Oct 07 08:49	2°M50'33	0°42'30
morning rise	16548 Oct 31 13:20	14°M45'26		desc. node	16549 Oct 09 15:01	0°M31'51	
direct	16548 Nov 07 03:24	12°M43'46		min. Earth dist.	16549 Oct 10 05:22	29° ≏ 56'18	0.62036 AU
morning max el	16548 Nov 21 09:37	20° M $_28'53$	27°46'46		16549 Oct 10 03:51	30° ₽ Ω	
	16548 Nov 29 15:07	0° ∡ ¹		morning rise	16549 Oct 13 20:21	26° ჲ 50′13	
asc. node	16548 Dec 17 07:15	28° ∡ ³36′17		direct	16549 Oct 20 12:55	24° ≏ 28'37	
	16548 Dec 18 00:37	ರ°0			16549 Nov 01 01:21	0° M	
morning set	16548 Dec 23 13:04	11° ට 12'03		morning max el	16549 Nov 03 15:47	2°M25'01	27°58'33
max. Earth dist.	16548 Dec 29 18:36	24°る49'02	1.31002 AU		16549 Nov 24 00:57	0° x ⁷	2022
man, Durin dist.	100 10 1000 27 10.00	2. 04702	1.51002710	asc. node	16549 Dec 04 04:18	18° ∡ 20'57	
aunories con:	16549 Dag 20 12:14	260=22112	102/121				
superior conj	16548 Dec 30 13:14		1°34'31	morning set	16549 Dec 07 13:04	25° ∡ 106'56	
minimum elong	16548 Dec 30 12:06		1°35'01		16549 Dec 09 21:09	0°る	
	16549 Jan 01 02:10	0° ≈		max. Earth dist.	16549 Dec 12 22:56	6° る 37'30	1.31493 AU

superior conj	16549 Dec 14 22:53	11° る 01'12	1°24'43	superior conj	16550 Nov 29 04:48	25° ∡ 15′22	1°08'43
minimum elong	16549 Dec 14 20:57	10°る50'25	1°25'07	minimum elong	16550 Nov 29 02:26	25° х 02′35	1°08'58
evening rise	16549 Dec 21 16:12	25° る 51'06			16550 Dec 01 09:15	8°0	
	16549 Dec 23 14:43	0° ≈		evening rise	16550 Dec 06 02:56	10°る17'28	
desc. node	16550 Jan 05 13:47	23° ≈ 51'46		-	16550 Dec 16 02:20	0° ≈ ≈	
	16550 Jan 09 21:28	0°) €		desc. node	16550 Dec 23 10:42	11° ≈ 14'04	
evening max el	16550 Jan 16 06:35	7°) 14'17	24°41'04	evening max el	16550 Dec 28 15:58	17° ≈ 10'29	22°57'58
retrograde	16550 Jan 30 00:00	14°\(\)(05'32	24 41 04	retrograde	16551 Jan 10 18:34	23°≈39'13	22 37 36
•		14 ★ 03 32		•			
evening set	16550 Feb 04 07:37			evening set	16551 Jan 14 21:26	23°≈02'24	
min. Earth dist.	16550 Feb 09 18:38	10°) 14′06	0.55892 AU	min. Earth dist.	16551 Jan 22 01:52	19° ≈ 43'11	0.54692 AU
inferior conj	16550 Feb 12 02:59	8° ¥ 46′05		inferior conj	16551 Jan 23 03:23	19° ≈ 06'50	
minimum elong	16550 Feb 12 12:13	8° ∺ 31'39	5°02'52	minimum elong	16551 Jan 23 07:09	19° ≈ 01'28	5°56'18
morning rise	16550 Feb 20 19:09	4°) 42′52		morning rise	16551 Jan 31 18:05	15° ≈ 17′01	
direct	16550 Feb 22 23:33	4°) €29'57		direct	16551 Feb 03 15:13	14° ≈ 57'39	
asc. node	16550 Mar 02 02:29	6° ¥ 58'18		morning max el	16551 Feb 15 04:28	20° ≈ 33'04	20°57'35
morning max el	16550 Mar 04 22:02	9° ₩ 19'59	19°36'22	asc. node	16551 Feb 16 23:47	22° ≈ 25'23	
	16550 Mar 18 11:22	0° Υ			16551 Feb 22 16:56	0°) €	
morning set	16550 Mar 22 04:40	7° Υ 21'42		morning set	16551 Mar 06 12:54	22° \ 01'02	
morning set	10330 Wiai 22 04.40	/ 21 72		morning set	16551 Mar 10 08:33	0° Υ	
	16550 Mar 30 05:27	23° Y °27'46	0°36'52		10331 Wiai 10 06.33	0 1	
superior conj					1655134 12 22 26	700000100	1001100
minimum elong	16550 Mar 30 07:28	23° Y '37'38	0°36'21	superior conj	16551 Mar 13 22:26	7° Y ′26′00	1°01'28
	16550 Apr 02 14:40	0°8		minimum elong	16551 Mar 14 00:57	7° Ƴ 38'54	1°01'04
desc. node	16550 Apr 03 14:42	1° 8 53'35		max. Earth dist.	16551 Mar 18 22:57	17° Ƴ 30'24	1.35542 AU
max. Earth dist.	16550 Apr 05 14:30	5° 8 35'51	1.37715 AU	desc. node	16551 Mar 21 11:25	22° Y 21'05	
evening rise	16550 Apr 09 06:56	12° 8 14'13		evening rise	16551 Mar 22 21:40	25° Ƴ 01'44	
	16550 Apr 19 23:12	$\Pi^{\circ}0$			16551 Mar 25 14:58	9° 8	
	16550 May 12 00:35	0°9			16551 Apr 13 11:55	Π° 0	
evening max el	16550 May 14 16:44	2° © 47'06	25°09'18	evening max el	16551 Apr 27 06:20	16° Ⅲ 37'22	26°18'06
retrograde	16550 May 26 18:05	9° 9 47'50		retrograde	16551 May 10 04:03	23° II 59'56	
asc. node	16550 May 29 00:21	9° © 26'43		asc. node	16551 May 15 21:28	21° I I52'47	
evening set	16550 Jun 01 14:16	7° 9 20'16		evening set	16551 May 16 10:16	21° II 27'30	
•		2°\$28'40	0.68221 AU	•	•	17° I I1'33	0.67027 AU
min. Earth dist.	16550 Jun 05 22:41			min. Earth dist.	16551 May 20 12:20		
inferior conj	16550 Jun 07 04:57	0°549'34	2°26'09	inferior conj	16551 May 22 07:41	14° Ⅲ 58'19	1°50'05
minimum elong	16550 Jun 07 02:52	0° © 56'23	2°25'03	minimum elong	16551 May 22 05:32	15° Ⅱ 04'59	1°48'51
	16550 Jun 07 20:09	30°Ŗ Ⅱ		morning rise	16551 May 28 01:42	9° Ⅱ 15′00	
morning rise	16550 Jun 12 15:50	24° Ⅱ 55'09		direct	16551 May 31 06:27	8° Ⅱ 17'12	
direct	16550 Jun 16 07:04	23° Ⅱ 39'18		morning max el	16551 Jun 06 18:42	11° Ⅱ 44'42	18°30'38
morning max el	16550 Jun 23 08:26	27° Ⅲ 30′58	19°18'10	desc. node	16551 Jun 17 11:43	25° Ⅲ 52'50	
	16550 Jun 25 16:06	0 \circ \circ			16551 Jun 20 04:12	0 \circ \odot	
desc. node	16550 Jun 30 14:39	6°€18'59		morning set	16551 Jun 27 17:23	11° © 49'00	
greatest brilliancy	16550 Jul 06 01:25	14° 5 08'01	-0.7m	Č	16551 Jul 09 08:00	$0^{\circ}\Omega$	
8	16550 Jul 16 12:53	$0^{\circ}\Omega$					
morning set	16550 Jul 17 21:34	2° Ω 05'31		superior conj	16551 Jul 13 13:51	6° Ω 36'55	-2°13'36
max. Earth dist.	16550 Jul 30 16:28	21° Ω 55'38	1.45459 AU	minimum elong	16551 Jul 13 11:39	6° Ω 28'20	
max. Lattii dist.	10330 301 30 10.20	21 663336	1.43437 AU	max. Earth dist.	16551 Jul 13 11:56	6° Ω 29'27	1.46012 AU
	16550 4 02 02 16	270 021120	200011.4	max. Earm dist.			1.40012 AU
superior conj	16550 Aug 03 03:16	27° Ω 21'39			16551 Jul 28 12:21	0° m/y	
minimum elong	16550 Aug 03 08:31	27° Ω 42'27	2°09'24	evening rise	16551 Jul 29 09:12	1°My22'11	
	16550 Aug 04 19:12	0° ™		greatest brilliancy	16551 Aug 06 14:45	14° m) 18'47	-0.8m
evening rise	16550 Aug 17 15:14	20° m 47'54		asc. node	16551 Aug 11 21:14	22° m 19'19	
	16550 Aug 23 05:29	0∘ 亚			16551 Aug 17 13:32	0∘ ⊽	
asc. node	16550 Aug 25 00:29	2° ♀ 54'43		evening max el	16551 Aug 19 21:47	2° ≏ 34'04	18°43'09
evening max el	16550 Sep 05 09:04	18° ≏ 46′28	18°13'28	retrograde	16551 Aug 26 12:04	6° ഫ 08'21	
retrograde	16550 Sep 11 17:53	22° ഫ 08'38		evening set	16551 Aug 29 18:39	5° ♀ 07'05	
evening set	16550 Sep 14 15:02	21° ₽ 23'36			16551 Sep 03 22:44	30°R, Mp	
inferior conj	16550 Sep 20 15:16	15° ≏ 57'12	1°41'59	inferior conj	16551 Sep 04 09:37	29° m 26'19	2°23'51
minimum elong	16550 Sep 20 17:29	15° ♀ 50'52	1°41'23	minimum elong	16551 Sep 04 11:49	29° m) 19'28	2°23'16
min. Earth dist.	16550 Sep 23 01:19	13° ⊆ 30'32	0.64198 AU	min. Earth dist.	16551 Sep 06 06:05	27° mg 08'25	0.66068 AU
morning rise	16550 Sep 26 18:08	9° £ 38'11	5.0-176 AU	morning rise	16551 Sep 10 03:55	27 m/08 23 23° m/00'20	5.00000 AU
•	•			•	•		
desc. node	16550 Sep 26 12:18	9° Ω 49'50		desc. node	16551 Sep 13 09:36	20° m 59'02	
direct	16550 Oct 03 07:53	7° Ω 04'27	27022126	direct	16551 Sep 16 10:45	20° m 23'16	2602012:
morning max el	16550 Oct 17 01:55		27°33'26	morning max el	16551 Sep 29 13:20	28° m 08'03	26°38'34
	16550 Oct 29 08:20	0°M₊			16551 Oct 01 08:10	0∘ ⊽	
	16550 Nov 16 17:22	0° ∡ 7			16551 Oct 23 02:06	0° M	
morning set	16550 Nov 21 04:36	8° ∡ ³36′00		morning set	16551 Nov 04 08:43	21°M32'59	
asc. node	16550 Nov 21 01:14	8° х 19′16		asc. node	16551 Nov 07 22:07	28° M $26'37$	
max. Earth dist.	16550 Nov 25 20:09	18° ∡ °05'41	1.32559 AU	max. Earth dist.	16551 Nov 08 07:47	29°M14'34	1.34184 AU
					16551 Nov 08 16:54	0° ∡ 7	

superior conj	16551 Nov 13 04:39	9° ∡ 10'24	0°46'28	asc. node	16552 Oct 24 18:56	18°MJ38'20	
minimum elong	16551 Nov 13 02:29	8° x ⁷ 59'06	0°46'38	asc. node	10332 Oct 24 18.30	10 11630 20	
evening rise	16551 Nov 20 12:33	24° ₹ 39'56	0 40 38	superior conj	16552 Oct 26 19:33	22°M38'38	0°18'10
evening rise	16551 Nov 23 02:05	0°る		minimum elong	16552 Oct 26 18:28	22°M33'11	0°18'24
desc. node	16551 Dec 10 07:39	27°る18'08		minimum ciong	16552 Oct 30 10:55	0° √	0 1024
evening max el	16551 Dec 10 06:31	27° る 15'19	21°18'51	evening rise	16552 Nov 03 18:56	8° × ⁷ 53'00	
evening max er	16551 Dec 13 11:31	0°≈	21 1031	evening rise	16552 Nov 15 03:52	0°중	
retrograde	16551 Dec 22 04:13	3° ≈ 08'16		evening max el	16552 Nov 21 09:56	。 7° る 59'38	19°56'58
evening set	16551 Dec 25 01:36	2° ≈ 48'58		desc. node	16552 Nov 26 04:41	11° る 40'21	-, -, -, -, -, -, -, -, -, -, -, -, -, -
	16551 Dec 31 22:23	30°Rる		retrograde	16552 Dec 01 17:19	13° る 08'06	
inferior conj	16552 Jan 02 18:07	28° ろ 59'13	-5°51'43	evening set	16552 Dec 03 20:03	12° る 56'09	
minimum elong	16552 Jan 02 12:32		5°50'33	inferior conj	16552 Dec 12 13:48	8° る 57'07	-4°48'05
min. Earth dist.	16552 Jan 03 07:04	28° る 40'59	0.54375 AU	minimum elong	16552 Dec 12 03:50	9° ප 12'19	4°44'47
morning rise	16552 Jan 10 23:46	25° る 09'03		min. Earth dist.	16552 Dec 14 13:21	7° る 44'44	0.54997 AU
direct	16552 Jan 14 22:56	24° る 35'00		morning rise	16552 Dec 20 10:31	4°₹48'02	
	16552 Jan 26 21:51	0° ≈		direct	16552 Dec 25 11:11	3° る 52'46	
morning max el	16552 Jan 27 20:24	0° ≈ 52'02	22°39'02	morning max el	16553 Jan 08 04:46	10° ප් 42'17	24°29'24
asc. node	16552 Feb 03 21:01	9° ≈ 12'13		asc. node	16553 Jan 20 18:13	27° る 00'48	
	16552 Feb 15 18:25	0°)			16553 Jan 22 13:07	0°≈	
morning set	16552 Feb 19 00:01	6°) 44′25		morning set	16553 Feb 02 12:02	21° ≈ 26′22	
					16553 Feb 06 10:08	0° ∀	
superior conj	16552 Feb 25 23:41	21°) 44′30	1°19'45				
minimum elong	16552 Feb 26 01:55	21° ¥ 56′26	1°19'37	superior conj	16553 Feb 09 06:29	6° ¥ 15'58	1°31'45
max. Earth dist.	16552 Feb 29 14:12	29°) 18′59	1.33691 AU	minimum elong	16553 Feb 09 07:58	6°) €24'07	1°31'56
	16552 Feb 29 22:09	0° Y		max. Earth dist.	16553 Feb 11 13:12	11°) (13′49	1.32273 AU
evening rise	16552 Mar 05 02:26	8° Y 22'45		evening rise	16553 Feb 16 17:57	22°) €08'55	
desc. node	16552 Mar 07 08:08	12° Ƴ 40'41			16553 Feb 20 17:23	0° Y	
	16552 Mar 17 04:17	$0^{\circ}S$		desc. node	16553 Feb 22 04:51	2° Y 47'48	
	16552 Apr 08 14:01	Π °0			16553 Mar 10 23:31	0°8	
evening max el	16552 Apr 08 20:07	0° Ⅱ 14'53	27°09'05	evening max el	16553 Mar 22 08:35	13° 8 27'51	27°34'55
retrograde	16552 Apr 22 07:56	7° Ⅱ 46'47		retrograde	16553 Apr 05 04:48	20° 8 59'35	
evening set	16552 Apr 28 22:09	5° Ⅱ 15'44		evening set	16553 Apr 11 23:39	18° 8 36'43	
asc. node	16552 May 01 18:37	2° Ⅱ 39'23		min. Earth dist.	16553 Apr 15 18:08	15° 8 23'06	0.63449 AU
min. Earth dist.	16552 May 02 19:27	1° Ⅱ 32'58	0.65414 AU	inferior conj	16553 Apr 18 13:45	12° 8 31'34	
	16552 May 04 04:35	30°₹ ႘	1001112	minimum elong	16553 Apr 18 13:49	12° 8 31'25	
inferior conj	16552 May 05 03:34	28° 8 54'38	1°01'13	transit middle	16553 Apr 18 13:49	12° 8 31'25	0°01'57
minimum elong	16552 May 05 02:02	28° 8 59'00	1°00'11	transit begin	16553 Apr 18 10:40	12° 8 39'26	
morning rise	16552 May 11 07:34	23° 8 24'13		transit end	16553 Apr 18 16:57	12° 8 23'24	
direct morning max el	16552 May 14 02:48 16552 May 20 09:52	22° 8 42'08 25° 8 57'50	17050/50	asc. node morning rise	16553 Apr 18 15:48 16553 Apr 25 06:32	12° 8 26'19 7° 8 16'33	
morning max er	16552 May 23 22:27	23 Ο 3730	17 39 39	direct	16553 Apr 27 17:19	6° 8 47'13	
desc. node	16552 Jun 03 08:43	15° Ⅱ 49'07		morning max el	16553 May 04 03:25	10° 8 03'13	17°46'45
morning set	16552 Jun 07 15:20	22° ∏ 47'46		morning max cr	16553 May 17 17:04	0°Ⅱ	17 40 43
morning set	16552 Jun 12 01:29	0°95		morning set	16553 May 20 15:29	5° П 00'59	
	10332 Jun 12 01.2)	• •		desc. node	16553 May 21 05:40	6° П 01'41	
superior conj	16552 Jun 22 02:15	16°502'20	-1°58'08	desc. Hode	10333 May 21 03.10	0 201 11	
minimum elong	16552 Jun 21 18:20	15° © 31'07		superior conj	16553 Jun 02 07:35	26° Ⅱ 17'01	-1°27'55
max. Earth dist.	16552 Jun 25 08:26		1.45817 AU	minimum elong	16553 Jun 01 23:44	25° Ⅱ 44'59	
	16552 Jul 01 00:52	$0^{\circ}\Omega$		Č	16553 Jun 04 14:35	0∘ ©	
evening rise	16552 Jul 08 04:54	11° Ω 03'00		max. Earth dist.	16553 Jun 08 03:39	5° 5 40'20	1.44895 AU
	16552 Jul 20 16:49	0° m		evening rise	16553 Jun 17 15:17	20° © 27'05	
greatest brilliancy	16552 Jul 21 10:21	1° m 04'37	-0.7m		16553 Jun 23 22:30	0 $^{\circ}\Omega$	
asc. node	16552 Jul 28 18:01	11° M)16'59		asc. node	16553 Jul 15 14:50	29° Ω 38'41	
evening max el	16552 Aug 02 05:52	16° Mp 27'27	19°29'20		16553 Jul 15 23:05	0° ™	
retrograde	16552 Aug 09 09:48	20° Mp $26'32$		evening max el	16553 Jul 16 07:58	0° Mp 22′22	20°30'17
evening set	16552 Aug 13 02:28	19° m 07'29		retrograde	16553 Jul 24 08:51	4° ™ 57'36	
inferior conj	16552 Aug 18 11:25	13° m 13'47	2°50'48	evening set	16553 Jul 28 12:12	3° Mp 20'28	
minimum elong	16552 Aug 18 13:01	13°Mp08'27	2°50'19		16553 Jul 31 16:41	30° R Ω	
min. Earth dist.	16552 Aug 19 17:53	11° m 33'08	0.67543 AU	inferior conj	16553 Aug 02 18:07	27° Ω 15'00	3°04'55
morning rise	16552 Aug 23 23:01	6° Mp 47′00		minimum elong	16553 Aug 02 18:51	27° Ω 12'28	3°04'30
direct	16552 Aug 29 20:00	4° m) 14'50		min. Earth dist.	16553 Aug 03 10:52		0.68564 AU
desc. node	16552 Aug 30 06:54	4° m 15'39		morning rise	16553 Aug 08 01:12	20° Ω 51'31	
morning max el	16552 Sep 11 00:30	11° Tp 31'32	25°23'02	direct	16553 Aug 13 10:40	18° Ω 30'42	
	16552 Sep 25 20:12	0∘ 亚		desc. node	16553 Aug 17 04:13	19° Ω 26'21	2205 *** *
	16552 Oct 14 18:11	0°M,		morning max el	16553 Aug 24 11:37	25° Ω 06'04	23°56'16
morning set	16552 Oct 16 21:42	3°M49'04	1 2/277 411		16553 Aug 28 22:11	0° m 0° 0	
max. Earth dist.	16552 Oct 20 10:43	10°11619'12	1.36277 AU		16553 Sep 19 07:19	0∘ ⊽	

morning set	16553 Sep 28 15:29	15° ≏ 15'18			16554 Aug 23 14:30	0° m/y	
morning set	=		1 20/51 AII		•		
max. Earth dist.	16553 Oct 02 09:46	21° Ω 46'56	1.38651 AU	morning set	16554 Sep 09 10:30	25° m/44'13	
	16553 Oct 06 23:01	0°M₊		E d F	16554 Sep 12 01:03	0∘ ⊽	1 41040 411
				max. Earth dist.	16554 Sep 14 10:39	3° 22 59'57	1.41042 AU
superior conj	16553 Oct 09 21:57	5°M31'31					
minimum elong	16553 Oct 09 23:01	5°M36'36	0°14'55	superior conj	16554 Sep 22 07:39	17° △ 39'50	
behind sun begin	16553 Oct 09 20:17	5° ™ 23'40		minimum elong	16554 Sep 22 11:51	17° ≏ 58'39	0°51'26
behind sun end	16553 Oct 10 01:45	5° ™ 49'33		asc. node	16554 Sep 28 12:30	29° ≏ 00'24	
asc. node	16553 Oct 11 15:44	8°M50'43			16554 Sep 29 01:17	0° M	
evening rise	16553 Oct 18 19:32	22°M50'19		evening rise	16554 Oct 02 11:10	6°M23'54	
	16553 Oct 22 11:56	0° ∡ ¹			16554 Oct 16 14:47	0° ∡ ¹	
evening max el	16553 Nov 04 03:41	19° ∡ ³34'18	18°57'18	evening max el	16554 Oct 18 08:43	1° ∡ 755′28	18°19'46
retrograde	16553 Nov 12 21:55	23° ∡ 59′28		retrograde	16554 Oct 25 21:49	5° ∡ ¹46'12	
desc. node	16553 Nov 13 01:48	23° ∡ ¹59'23		evening set	16554 Oct 27 22:33	5° ∡ ³30′09	
evening set	16553 Nov 14 19:24	23° ∡ ¹47'52		desc. node	16554 Oct 30 22:59	4° ∡ 12'43	
inferior conj	16553 Nov 23 02:40	19° ∡ ³30′27	-3°10'52	inferior conj	16554 Nov 04 13:18	0° ∡ 751'35	-1°29'05
minimum elong	16553 Nov 22 18:55	19° ∡ ⁴44'02	3°07'24	minimum elong	16554 Nov 04 09:54	0° ∡ 758'33	1°27'11
min. Earth dist.	16553 Nov 26 00:23	17° ∡ ¹28'24	0.56436 AU		16554 Nov 05 14:16	30°₽ M ₀	
morning rise	16553 Nov 30 15:40	14° ∡ ¹47'22		min. Earth dist.	16554 Nov 07 19:12	28° ™ 12'36	0.58442 AU
direct	16553 Dec 06 12:00	13° ∡ ¹26'37		morning rise	16554 Nov 11 17:46	25°M31'50	
morning max el	16553 Dec 20 15:31	20° х 42′19	26°09'46	direct	16554 Nov 18 03:20	23°M44'03	
morning man vi	16553 Dec 28 16:02	0°ਰ	20 07 .0		16554 Nov 30 23:23	0° √	
asc. node	16554 Jan 07 15:24	0 3 15° る 35'30		morning max el	16554 Dec 02 10:01	1° ∡ 20′58	27°22'08
asc. node	16554 Jan 15 02:47	0°≈		morning max cr	16554 Dec 22 22:20	0°る	27 22 00
mamina sat	16554 Jan 17 23:06	0 ∞ 6°≈01'11		asc. node	16554 Dec 25 12:31	0 3 4° 3 44'19	
morning set	10554 Jan 17 25.00	0 ≈0111				4 344 19 20° る 24'22	
	165541 24 16 22	20052110	1027127	morning set	16555 Jan 02 07:27		
superior conj	16554 Jan 24 16:33	20°≈53'18	1°37'36		16555 Jan 06 16:43	0° ≈	
minimum elong	16554 Jan 24 17:03	20°≈56'01	1°38'01				
max. Earth dist.	16554 Jan 25 18:01	23°≈14'59	1.31353 AU	superior conj	16555 Jan 09 03:58		1°37'23
	16554 Jan 28 19:39	0° ∀		minimum elong	16555 Jan 09 03:24	5° ≈ 28'11	1°37'54
evening rise	16554 Jan 31 17:25	6° ¥ 12'46		max. Earth dist.	16555 Jan 09 01:28	5° ≈ 17'19	1.30966 AU
desc. node	16554 Feb 09 01:35	22° ∺ 36′05		evening rise	16555 Jan 15 22:34	20° ≈ 29'14	
	16554 Feb 13 06:54	0° Υ			16555 Jan 20 12:48	0° ℋ	
evening max el	16554 Mar 04 17:14	26° Ƴ 01'57	27°29'23	desc. node	16555 Jan 26 22:23	11° ¥ 58'34	
	16554 Mar 09 11:38	9° 8			16555 Feb 07 20:16	0 ° Υ	
retrograde	16554 Mar 18 17:30	3° 8 27'21		evening max el	16555 Feb 14 19:42	7° Y ′47'29	26°48'53
evening set	16554 Mar 25 11:58	1° 8 19'57		retrograde	16555 Feb 28 20:44	15° Y ′02'07	
	16554 Mar 27 10:07	30° ŖƳ		evening set	16555 Mar 07 07:59	13° Ƴ 17'10	
min. Earth dist.	16554 Mar 29 06:57	28° Y 28'42	0.61240 AU	min. Earth dist.	16555 Mar 11 09:39	10° Ƴ 37'56	0.58972 AU
inferior conj	16554 Apr 01 10:45	25° Ƴ 39'00	-1°18'48	inferior conj	16555 Mar 14 14:50	8° Y 07'33	-2°47'38
minimum elong	16554 Apr 01 13:35	25° Y '32'38	1°17'51	minimum elong	16555 Mar 14 21:19	7° Y 54'54	2°45'13
asc. node	16554 Apr 05 13:04	22° Y 19'00		morning rise	16555 Mar 22 14:17	3° Y '31'23	
morning rise	16554 Apr 08 18:34	20° Ƴ 42'16		asc. node	16555 Mar 23 10:21	3° Y ′22'04	
direct	16554 Apr 10 22:16	20° Y ′22'25		direct	16555 Mar 24 13:25	3° Y 17'23	
morning max el	16554 Apr 17 20:11	23° Y ′50'28	17°51'28	morning max el	16555 Apr 01 08:32	7° Υ '09'18	18°15'17
8	16554 Apr 22 19:19	0°ප	-,		16555 Apr 15 22:34	0°8	
morning set	16554 May 03 12:27	18° 8 11'21		morning set	16555 Apr 17 00:35	2° 8 02'22	
desc. node	16554 May 08 02:32	26° 8 24'37		desc. node	16555 Apr 24 23:22	16° 8 53'49	
desc. flode	16554 May 10 03:13	0°Ⅱ		dese. Hode	10333 Apr 24 23.22	10 033 47	
	1000 T 1410 10 00.15	· <u></u>		superior conj	16555 Apr 26 14:44	19° 8 52'46	-0°13'42
superior coni	16554 May 14 12:05	7° Ⅱ 35'11	0°50'57	minimum elong	•	19° 8 47'50	
superior conj	16554 May 14 12:05	7° Д 3511			16555 Apr 26 13:38	_	0 13 33
minimum elong	16554 May 14 07:32			behind sun begin	16555 Apr 26 09:58	19° 8 31'12	
max. Earth dist.	16554 May 21 18:46	19° Ⅱ 44'26	1.43335 AU	behind sun end	16555 Apr 26 17:19	20° 8 04'26	
evening rise	16554 May 28 09:01	0°9516'01		F 4 F .	16555 May 02 08:25	0°П	
	16554 May 28 04:55	0°©		max. Earth dist.	16555 May 04 04:44	3° Ⅱ 09'08	1.41311 AU
	16554 Jun 17 12:26	0 ° Ω		evening rise	16555 May 08 21:15	10° ∏ 56'11	
evening max el	16554 Jun 29 04:05	14° Ω 16'43	21°43'11		16555 May 21 03:58	0	
asc. node	16554 Jul 02 11:43	17° Ω 12'08		evening max el	16555 Jun 11 19:55	28° © 11'30	23°03'25
retrograde	16554 Jul 08 07:26	19° Ω 35'46			16555 Jun 13 18:01	0 \circ Ω	
evening set	16554 Jul 12 21:57	17° Ω 41'23		asc. node	16555 Jun 19 08:41	3° Ω 41'45	
inferior conj	16554 Jul 18 03:29	11° Ω 25'41	3°07'42	retrograde	16555 Jun 22 03:57	4° Ω 15'12	
minimum elong	16554 Jul 18 03:16	11° Ω 26′26	3°07'12	evening set	16555 Jun 27 06:03	2° Ω 05'31	
min. Earth dist.	16554 Jul 18 06:56	11° Q 13'38	0.69099 AU		16555 Jun 29 07:00	30°ષ્દ્	
morning rise	16554 Jul 23 08:23	5° Ω 08'09		min. Earth dist.	16555 Jul 02 03:57	26°9514'52	0.69144 AU
direct	16554 Jul 28 05:43	3° N 03'09		inferior conj	16555 Jul 02 13:32	25°5641'40	2°59'54
desc. node	16554 Aug 04 01:29	6° Ω 07'36		minimum elong	16555 Jul 02 12:26	25°5645'30	2°59'12
morning max el	16554 Aug 07 00:15	8° Ω 48'49	22°27'26	morning rise	16555 Jul 07 18:43	19° © 31'56	

direct	16555 Jul 12 04:00	17° © 45'20		morning rise	16556 Jun 21 06:22	3° © 58'21	
morning max el	16555 Jul 20 17:01	22°\$40'22	21°04'19	direct	16556 Jun 25 04:05	2° © 31'11	
desc. node	16555 Jul 21 22:43	23°957'09	21 0419	morning max el	16556 Jul 02 16:21	6°542'31	19°52'42
dese. Hode	16555 Jul 27 00:55	0°Ω		desc. node	16556 Jul 07 19:52	12°937'20	1) 32 42
	16555 Aug 16 20:54	0° m)		dese. Hode	16556 Jul 20 02:40	0°Ω	
morning set	16555 Aug 20 06:30	5° M) 15'36		morning set	16556 Jul 29 12:04	14° Ω 13'08	
max. Earth dist.	16555 Aug 27 17:20	17° Mp 06'16	1.43179 AU	morning sec	16556 Aug 08 15:36	0°m	
man. Bartir dist.	10000 11ug 27 17.20	17 12 00 10	1.15177110	max. Earth dist.	16556 Aug 09 06:55	1° Mp 00'34	1.44820 AU
superior conj	16555 Sep 03 20:21	28° m 54'11	-1°28'33		Č	•	
minimum elong	16555 Sep 04 03:36	29° m/24'52	1°27'43	superior conj	16556 Aug 14 09:40	9° m 10'51	-1°58'11
	16555 Sep 04 11:53	0∘ ⊽		minimum elong	16556 Aug 14 17:12	9° m)41'19	1°57'54
asc. node	16555 Sep 15 09:15	19° ഫ 03'19		_	16556 Aug 26 23:27	0∘ ⊽	
evening rise	16555 Sep 15 13:34	19° ≏ 22'33		evening rise	16556 Aug 27 21:38	1° ≏ 33'52	
	16555 Sep 21 13:47	0°M₊		asc. node	16556 Sep 01 06:01	8° ≏ 55'41	
evening max el	16555 Oct 01 20:40	14°ML52'38	18°02'33	evening max el	16556 Sep 14 11:33	28° ≏ 16'21	18°04'15
retrograde	16555 Oct 08 14:49	18°M21'33			16556 Sep 16 11:58	0° M	
evening set	16555 Oct 10 22:36	17°M56'51		retrograde	16556 Sep 20 20:54	1°M36'53	
inferior conj	16555 Oct 17 20:20	12°M57'49	-0°00'05	evening set	16556 Sep 23 13:04	1°M00'00	
minimum elong	16555 Oct 17 20:20	12°M57'49	0°00'16		16556 Sep 25 06:09	30°Ŗ Ω	
transit middle	16555 Oct 17 20:20	12°M57'49	0°00'16	inferior conj	16556 Sep 29 20:10	25° ≏ 42'43	1°10'06
transit begin	16555 Oct 17 17:03	13°ML05'35		minimum elong	16556 Sep 29 21:58	25° △ 37'53	1°09'40
transit end	16555 Oct 17 23:37	12°M50'01		min. Earth dist.	16556 Oct 02 13:20	22° △ 48'40	0.62993 AU
desc. node	16555 Oct 17 20:13	12°M58'04		desc. node	16556 Oct 03 17:28	21° △ 38'30	
min. Earth dist.	16555 Oct 20 23:17	10°M01'12	0.60721 AU	morning rise	16556 Oct 06 04:39	19° △ 31'47	
morning rise	16555 Oct 24 14:59	7°M07'49		direct	16556 Oct 12 20:48	17° £ 03'57	27051157
direct	16555 Oct 31 07:01	4°M56'24	27057124	morning max el	16556 Oct 26 20:14	25° Ω 01'28	27°51'57
morning max el	16555 Nov 14 12:16	12° M .47'49 0° ∡ 7	27°56'34		16556 Oct 31 09:46	0°M√ 0°⊀	
asc. node	16555 Nov 28 05:18 16555 Dec 12 09:35	0° x ° 24° x ¹17'24		asc. node	16556 Nov 20 16:37 16556 Nov 28 06:36	14° ∡ 08'02	
asc. node	16555 Dec 15 06:39	24 メ ・1 / 24 0°る		morning set	16556 Nov 30 07:43	18° × 13'48	
morning set	16555 Dec 17 11:04	4° る 30'11		max. Earth dist.	16556 Dec 05 09:26	28° x 13 48	1.31878 AU
max. Earth dist.	16555 Dec 23 07:50	17°る11'49	1.31134 AU	max. Lartii dist.	16556 Dec 05 22:13	0°る	1.51070 AC
max. Earth dist.	10333 BCC 23 07.30	17 011 17	1.51151110		10000 Bec 00 22.15	ů J	
superior conj	16555 Dec 24 14:47	20° ට 03'55	1°31'07	superior conj	16556 Dec 07 23:05	4° ප 26'06	1°18'42
minimum elong	16555 Dec 24 13:16	19° ප 555'28	1°31'36	minimum elong	16556 Dec 07 20:53	4° る 14'07	1°19'02
	16555 Dec 29 01:49	0° ≈		evening rise	16556 Dec 14 17:51	19° る 19'12	
evening rise	16555 Dec 31 07:19	4° ≈ 52'45			16556 Dec 19 20:45	0°≈	
	16556 Jan 13 08:15	0°) €		desc. node	16556 Dec 30 16:05	18° ≈ 42'22	
desc. node	16556 Jan 13 19:13	0°) 44'57		evening max el	16557 Jan 08 01:12	28° ≈ 49′26	23°57'55
evening max el	16556 Jan 27 14:07	18°) 40′23	25°35'12		16557 Jan 09 07:57	0° ∀	
retrograde	16556 Feb 10 12:05	25°) 40′43		retrograde	16557 Jan 21 13:29	5°) 31'33	
evening set	16556 Feb 16 08:08	24° ¥ 22'45		evening set	16557 Jan 26 09:46	4°) 40'40	
min. Earth dist.	16556 Feb 21 03:00	21°) 42′00	0.56887 AU	min. Earth dist.	16557 Feb 01 12:46		0.55284 AU
inferior conj	16556 Feb 23 22:41	19° ¥ 47'50		inferior conj	16557 Feb 03 09:21	0°) 35′05	
minimum elong	16556 Feb 24 08:00	19° ¥ 32′05	4°15'55	minimum elong	16557 Feb 03 17:07	0°) €23'30	5°31'17
morning rise	16556 Mar 03 10:47	15°) 32′50			16557 Feb 04 09:01	30°R≈	
direct	16556 Mar 05 10:42	15° ¥ 20'48		morning rise	16557 Feb 12 02:09	26°≈38'37	
asc. node	16556 Mar 09 07:37	16°) €08'48	19°00'11	direct	16557 Feb 14 12:27	26° ≈ 23'41	
morning max el	16556 Mar 14 12:19	19°) 47'30 0° ℃	19°00'11	1-	16557 Feb 23 09:43	0°) 0°) 40'54	
morning set	16556 Mar 22 03:30 16556 Mar 30 23:14	16° Υ 20'34		asc. node morning max el	16557 Feb 24 04:55 16557 Feb 25 03:15	0 X 40 34 1° X 32'53	20°08'09
morning set	16556 Apr 06 22:19	0° 8		morning max er	16557 Mar 14 18:02	1 γ (3233	20 08 09
	10330 Apr 00 22.19	0.0		morning set	16557 Mar 15 04:48	0° Υ 54'48	
superior conj	16556 Apr 08 11:36	2° 8 58'50	0°19'56	morning sec	10337 Wai 13 04.40	0 13440	
minimum elong	16556 Apr 08 12:51	3° 8 04'45	0°19'27	superior conj	16557 Mar 22 22:21	16° Ƴ 41'01	0°48'04
desc. node	16556 Apr 10 20:09	7° 8 25'35	0 19 27	minimum elong	16557 Mar 23 00:41	16° Y ′52'43	0°47'34
max. Earth dist.	16556 Apr 15 11:25	15° 8 52'52	1.39041 AU	desc. node	16557 Mar 28 16:53	27° Y ′55'43	
evening rise	16556 Apr 19 06:54	22° 8 32'13		max. Earth dist.	16557 Mar 28 18:17	28° Y ′02'17	1.36763 AU
Č	16556 Apr 23 17:56	0°II			16557 Mar 29 19:23	0°8	
	16556 May 14 01:11	0ಂಣ		evening rise	16557 Apr 01 11:58	4° 8 56'13	
evening max el	16556 May 24 09:49	12° © 07'42	24°24'48		16557 Apr 16 16:26	$\Pi^{\circ}0$	
retrograde	16556 Jun 04 21:06	18° 5 49'56		evening max el	16557 May 06 23:20	26° Ⅲ 01'57	25°40'15
asc. node	16556 Jun 05 05:41	18° 5 49'24			16557 May 11 13:04	0 \circ \odot	
evening set	16556 Jun 10 10:48	16°927'56		retrograde	16557 May 19 09:47	3° 5 12'38	
min. Earth dist.	16556 Jun 14 23:44	11° © 14'53	0.68699 AU	asc. node	16557 May 23 02:44	2° © 17'13	
inferior conj	16556 Jun 15 22:21	9° © 58'49	2°41'37	evening set	16557 May 25 10:31	0°9542'24	
minimum elong	16556 Jun 15 20:32	10° © 04'55	2°40'40		16557 May 26 05:24	30°RⅡ	

	min. Earth dist.	16557 May 29 16:06	26°π06'17	0.67776 AU	asc. node	16558 May 09 23:49	13° ∏ 58'53	
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intrior conj 16575 Sep 13 08.49 8°£5752 2°0142 inferior conj 16578 Sep 13 13.07 8°£4510 2°0106 minimum clong 16578 Sep 22 1210 20°B320 2°1620 min. Earth dist. 16577 Sep 15 13.05 6°£2374 0.65042 AU minimum clong 16558 Aug 28 08.42 20°B320 0.66747 AU desc. node 16557 Sep 15 13.05 2°£3506 desc. node 16558 Sep 07 12.01 13°B4153 direct 16557 Sep 25 19.10 29°B9514 morning max el 16557 Sep 26 06.24 0°£ 1578 Sep 26 06.24 0°£ 15557 Sep 26 06.24 0°£ 16557 Sep 26 06.24 16557 Sep 26 06.24 0°£ 16557 Sep 26 06.24	•	•			Č	•		
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min marth dist	inferior conj	•	8° ≏ 57'52	2°01'42	inferior conj	16558 Aug 28 06:42	22° m/35'38	2°36'58
Moming rise 16557 Sep 9 07.52 2°±3570 4 07% № 4 ces. node 16557 Sep 20 1744 7°±38′33 4 ces. node 16557 Sep 20 1744 7°±38′33 4 ces. node 16558 Sep 00 20 13 3°±32′35 2 1°±0755 2 1°±0	minimum elong	16557 Sep 13 11:07	8° ≏ 51'01	2°01'06	minimum elong	16558 Aug 28 08:42	22° Mp 29'13	2°36'26
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direct 16557 Sep 2 5 10.01 29°mg 5°Hg 5°Hg 60°A 2 18-55 Sep 2 1 18-55 11-20°G 2 11-20°G	desc. node	16557 Sep 20 14:44	1° ≏ 38'33		desc. node	16558 Sep 07 12:01	13° m 41'53	
Morning max et 16557 Sep 26 06:24 0° 2		16557 Sep 25 07:44	30°R, Mp		direct	16558 Sep 09 00:38	13° m 32'45	
Morning max el 16557 Oct 26 127 127 127 1907 1908 16558 Oct 19 16:30 19™ 1	direct	16557 Sep 25 19:01	29° m 59'14		morning max el	16558 Sep 21 18:55	21°Mp07'55	26°08'23
16557 Nov 13 0134 1×3019		16557 Sep 26 06:24	0∘ ⊽			16558 Sep 29 11:56	0∘ ত	
moming set 16557 Nov 13 00-13 0°-3' 8'-3'	morning max el	16557 Oct 09 07:15	7° ჲ 52'26	27°13'15		16558 Oct 19 16:30	0° M.	
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Max. Earth dist. 16557 Nov 15 03:32 4° x² 10'52 10° x² 11'44 1.33188 AU 16558 Nov 04 20:14 0° x² 1.701 0° 35'09 Superior conj 16557 Nov 22 02:43 18° x² 32'51 10'00'2 minimum elong 16558 Nov 05 21:17 2° x² 07'37 0° 35'19 minimum elong 16557 Nov 22 00:21 18° x² 32'51 10'00'14 evening rise 16558 Nov 05 21:17 2° x² 07'37 0° 35'19 evening rise 16557 Nov 27 00:27 0° 3 0° 3 0° 41'48 evening max el 16558 Nov 13 12:53 18° x² 03'48 desc. node 16557 Dec 13 08:06 0° ∞ 16558 Nov 06 20 06:42 0° 50'222 20'41'26 desc. node 16557 Dec 13 13:01 5° x34'08 evening max el 16558 Dec 04 10:01 20° 55'74 desc. node 16557 Dec 13 12:05 8° x34'08 evening max el 16558 Dec 16 00:29 24° 50'223 retrograde 16558 Jan 02 0:309 14° x859'28 inferior conj 16558 Dec 16 00:29 24° 50'223 retrograde 16558 Jan 10 11:26 8° x34'08 22° 14'18 evening max el 16558 Dec 16 00:29 24° 50'223 retrograde 16558 Jan 10 11:26 10° x35'14		16557 Nov 13 00:13	0° ∡		max. Earth dist.	16558 Oct 31 10:50	21°M16'54	1.35024 AU
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superior conj 16557 Nov 22 02:43 18°₹3251 1°0002 minimum elong 16558 Nov 05 21:17 2°₹1701 0°3519 minimum elong 16557 Nov 22 00:21 18°₹3251 1°0002 minimum elong 16558 Nov 05 21:17 2°₹0737 0°3519 evening rise 16557 Nov 22 00:27 0°% evening rise 16558 Nov 19 11:23 0°% 0°% evening rise 16557 Nov 29 04:23 3°₹4448 evening max el 16558 Dec 02 06:24 10°©0222 20°41'26 desc. node 16557 Dec 17 13:01 5°≈34'08 retrograde 16558 Dec 04 10:01 20°©57'47 0°%57'47 evening max el 16557 Dec 20 11:26 8°≈44'06 22°14'18 evening set 16558 Dec 16 00:29 24°₹22'39 retrograde 16558 Dec 24 19:01 20°₹37'38 4°30'50 evening set 16558 Jan 14 04:00 10°×≈39'54 -6°02'32 minimum elong 16558 Dec 24 10:37 20°₹34'85 0°454'22 5°28'43 minimum elong 16558 Jan 14 03:40 10°∞≈40'13 6°02'32 minimum elong 16559 Dec 24 10:33 0°6*24'22 5°2	asc. node	16557 Nov 15 03:32	4° ҂ 10′52			16558 Nov 04 20:14	0° ∡ 7	
superior conj 16557 Nov 22 0.214 18° x³32'51 1°00'02 minimum elong 16558 Nov 05 21:17 2° x70'73 0°35'19 minimum elong 16557 Nov 22 10:21 18° x²32'51 1°00'14 evening rise 16558 Nov 13 12:53 18° x³0'34'8 16558 Nov 15 11:23 0° ₹ 16558 Nov 19 11:23 0° ₹ 18° ₹ 0° ₹ 18° ₹ 0° ₹ 18° ₹ 0° ₹ 20° ₹ 18° ₹ 0° ₹ 20° ₹ 18° ₹ 0° ₹ 20° ₹ 20° ₹ 20° ₹ 20° ₹ 18° ₹ <td< td=""><td>max. Earth dist.</td><td>16557 Nov 18 03:02</td><td>10°√11'44</td><td>1.33188 AU</td><td></td><td></td><td></td><td></td></td<>	max. Earth dist.	16557 Nov 18 03:02	10° √ 11'44	1.33188 AU				
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minimum dlong	superior conj	16557 Nov 22 02:43	18° ∡ ³32'51	1°00'02	minimum elong	16558 Nov 05 21:17	2° ∡ °07'37	0°35'19
evening rise		16557 Nov 22 00:21	18° ∡ ′20′12	1°00'14	evening rise	16558 Nov 13 12:53	18° ∡ 03'48	
Pevening rise 16557 Nov 29 04:23 3°54448 evening max el 16558 Dec 02 06:42 19°502'22 20°41'26 16557 Dec 13 08:06 0°8 desc. node 16558 Dec 04 10:01 20°55'747 14°60'22 11°50'25'46 16558 Dec 13 13:03 24°53'738 14°50'25'46 16558 Dec 16 16558 Dec 16 10:29 24°52'35 14°50'25'46 16558 Dec 16 00:29 24°52'35 14°50'25'46 16558 Dec 16 00:29 24°52'25 16558 Dec 25 23:42 19°0'30'14 5°30'50 16°53 Dec 16 00:29 24°52'25 16558 Dec 25 23:42 19°0'30'14 5°30'50 16°53 Dec 16 00:29 24°52'25 16558 Dec 25 23:42 19°0'30'50 16°53 Dec 24 19:01 20°53'05 16°53 Dec 25 23:42 19°0'36'50 16°53 Dec 25 23:42	C	16557 Nov 27 10:27	8°0		C	16558 Nov 19 11:23	ა∘ნ	
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evening rise 16558 Mar 15 09:05 17°\bar{Y}59'01 desc. node 16559 Mar 02 10:22 8°\bar{Y}35'15 desc. node 16558 Mar 15 13:38 18°\bar{Y}20'34 16558 Mar 15 13:38 18°\bar{Y}20'34 evening max el 16559 Apr 02 02:12 23°\bar{\Bar{B}}15'19 27°23'31 16558 Apr 10 21:39 0°\bar{\Bar{B}} evening max el 16558 Apr 10 13:01 9°\bar{\Bar{B}}47'49 26°\bar{B}2'17 retrograde 16559 Apr 10 15:26 30°\bar{\Bar{B}} 16558 May 02 17:12 17°\bar{\Bar{B}}15'34 17°\bar{B}15'34 16559 Apr 19 15:26 30°\bar{\Bar{B}}	Č				evening rice			
desc. node 16558 Mar 15 13:38 18°Y20'34 16559 Mar 14 22:36 0°♥ 16558 Mar 21 23:47 0°♥ evening max el 16559 Apr 02 02:12 23°♥15'19 27°23'31 16558 Apr 10 21:39 0°耳 16559 Apr 11 15:45 0°耳 evening max el 16558 Apr 19 13:01 9°耳47'49 26°42'17 retrograde 16559 Apr 15 18:26 0°耳49'06 retrograde 16558 May 02 17:12 17°耳15'34 16559 Apr 19 15:26 30°₹♥				1.34/U2 AU	•			
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16558 Apr 10 21:39 0°Ⅱ 16559 Apr 11 15:45 0°Ⅱ evening max el 16558 Apr 19 13:01 9°Ⅱ47'49 26°42'17 retrograde 16559 Apr 15 18:26 0°Ⅲ49'06 retrograde 16558 May 02 17:12 17°Ⅱ15'34 16559 Apr 19 15:26 30°ℝ♥	uesc. noue				avanina may al			27022121
evening max el 16558 Apr 19 13:01 9° II 47'49 26° 42'17 retrograde 16559 Apr 15 18:26 0° II 49'06 retrograde 16558 May 02 17:12 17° II 15'34 16559 Apr 19 15:26 30° R					evening max er	-		41 43 31
retrograde 16558 May 02 17:12 17° II 15'34 16559 Apr 19 15:26 30° R	avanina may al	•		26042117	retrograda	•		
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evening set 10000 iviay up up.20 14 H 42 08 evening set 10009 Apr 22 11:0/ 28° O 20'20	•	-			ovening set	-		
	evening set	10336 May 09 03:20	14 Щ42 38		evening set	10339 Apr 22 11:0/	26 020 20	

min. Earth dist.	16559 Apr 26 06:47	24° 8 50'45	0.64611 AU		16560 Feb 18 01:35	0° Υ	
asc. node	16559 Apr 26 20:59	24° 8 13'04	0.04011 AC		16560 Mar 08 19:28	0°8	
inferior conj	16559 Apr 28 20:09	22° 8 04'48	0°36'21	evening max el	16560 Mar 14 13:23	6° 8 13'09	27°36'48
minimum elong	16559 Apr 28 19:09	22° 8 07'31	0°35'32	retrograde	16560 Mar 28 12:13	13° 8 43'18	27 30 .0
morning rise	16559 May 05 05:17	16° 8 40'51		evening set	16560 Apr 04 07:21	11° 8 26'21	
direct	16559 May 07 20:40	16° 8 04'45		min. Earth dist.	16560 Apr 08 01:34	8° 8 22'57	0.62520 AU
morning max el	16559 May 14 04:10	19° 8 19'19	17°52'15	inferior conj	16560 Apr 11 01:09	5° 8 30'10	
	16559 May 22 06:22	0°II		minimum elong	16560 Apr 11 02:15	5° 8 27'30	0°32'32
desc. node	16559 May 29 11:01	11° Ⅱ 42'35		asc. node	16560 Apr 12 18:13	3° 8 53'07	
morning set	16559 May 31 13:08	15° Ⅱ 11'21		morning rise	16560 Apr 18 00:06	0° 8 22'26	
3	16559 Jun 09 12:43	0ංම		3	16560 Apr 19 14:38	30° ₽ Υ	
				direct	16560 Apr 20 07:33	29° Y ′57'39	
superior conj	16559 Jun 14 06:13	7° 9 36'47	-1°46'40		16560 Apr 21 00:26	0° ႘	
minimum elong	16559 Jun 13 21:41	7° © 02'45	1°46'30	morning max el	16560 Apr 26 21:45	3° 8 17'46	17°46'30
max. Earth dist.	16559 Jun 18 17:37	14° © 41'57	1.45504 AU	morning set	16560 May 12 22:53	27° 8 50'56	
	16559 Jun 28 14:20	$0^{\circ}\Omega$			16560 May 14 04:25	$\Pi^{\circ}0$	
evening rise	16559 Jun 30 03:32	2° Ω 22′23		desc. node	16560 May 15 07:57	2° Ⅲ 00′03	
greatest brilliancy	16559 Jul 14 19:40	24° Ω 21'37	-0.6m				
	16559 Jul 18 19:27	o° my		superior conj	16560 May 24 21:06	18° Ⅲ 17'41	-1°12'38
asc. node	16559 Jul 23 20:16	6° Mp 30'11		minimum elong	16560 May 24 14:28	17° Ⅲ 50′07	1°12'19
evening max el	16559 Jul 26 18:19	9° m 42'09	19°53'34	max. Earth dist.	16560 May 31 10:54	29° Ⅱ 01'47	1.44295 AU
retrograde	16559 Aug 03 06:34	13° m 55'46			16560 Jun 01 01:27	0ಂತಾ	
evening set	16559 Aug 07 03:35	12° m 29'13		evening rise	16560 Jun 08 15:07	11° © 52'24	
inferior conj	16559 Aug 12 10:55	6° Mp 30'23	2°58'15	-	16560 Jun 20 16:45	$0^{\circ}\Omega$	
minimum elong	16559 Aug 12 12:11	6° Mp 26′08	2°57'48	evening max el	16560 Jul 08 17:53	23° Ω 37'38	21°00'08
min. Earth dist.	16559 Aug 13 11:34	5° Mp 07'17	0.68033 AU	asc. node	16560 Jul 09 17:07	24° Ω 33'29	
morning rise	16559 Aug 17 20:19	0° Mp 04'19		retrograde	16560 Jul 17 05:33	28° Ω 30'42	
	16559 Aug 17 22:16	30°R Ω		evening set	16560 Jul 21 13:34	26° Ω 46'15	
direct	16559 Aug 23 12:31	27° Ω 36′06		inferior conj	16560 Jul 26 19:02	20° Ω 36'31	3°07'25
desc. node	16559 Aug 25 09:20	27° Ω 50′04		minimum elong	16560 Jul 26 19:22	20° Ω 35′21	3°06'58
	16559 Aug 29 21:27	0° m)		min. Earth dist.	16560 Jul 27 06:10	19° Ω 57'53	0.68853 AU
morning max el	16559 Sep 04 06:01	4° m/37'27	24°46'51	morning rise	16560 Aug 01 00:54	14° Ω 15'15	
-	16559 Sep 23 19:39	0∘ ⊽		direct	16560 Aug 06 05:21	12° Ω 00′27	
morning set	16559 Oct 09 22:20	26° ₽ 07'34		desc. node	16560 Aug 11 06:38	13° Ω 42′25	
	16559 Oct 12 02:37	0° M		morning max el	16560 Aug 16 17:17	18° Ω 15'07	23°18'10
max. Earth dist.	16559 Oct 13 10:58	2°M26'32	1.37265 AU		16560 Aug 26 13:46	0° m y	
asc. node	16559 Oct 19 21:13	14°MJ33'23			16560 Sep 15 21:34	0∘ ত	
				morning set	16560 Sep 20 06:45	7° ≏ 10'17	
superior conj	16559 Oct 20 09:12	15°M31'45	0°04'29	max. Earth dist.	16560 Sep 24 09:54	14° ≙ 10'51	1.39690 AU
minimum elong	16559 Oct 20 08:53	15°M30'14	0°04'49				
behind sun begin	16559 Oct 20 02:32	14° M 59'16		superior conj	16560 Oct 02 05:05	28° ♀ 07'30	-0°30'48
behind sun end	16559 Oct 20 15:14	16° M 01'17		minimum elong	16560 Oct 02 07:23	28° ≙ 18'11	0°30'09
	16559 Oct 27 15:08	0° ∡ ¹			16560 Oct 03 05:19	0° M	
evening rise	16559 Oct 28 17:11	2° ∡ 11'15		asc. node	16560 Oct 05 18:00	4°M45'21	
evening max el	16559 Nov 14 16:31	0° ප 08'40	19°28'51	evening rise	16560 Oct 11 14:24	15° ™ 59'38	
	16559 Nov 14 13:05	0°₹			16560 Oct 19 02:43	0° ∡ ¹	
desc. node	16559 Nov 21 07:04	4° る 29'55		evening max el	16560 Oct 27 15:38	12° ∡ ¹04'36	18°38'41
retrograde	16559 Nov 24 07:30	4° る 57'41		retrograde	16560 Nov 04 19:59	16° х 13′12	
evening set	16559 Nov 26 06:28	4° る 46'39		evening set	16560 Nov 06 18:21	16° ₺ 00'08	
inferior conj	16559 Dec 04 21:00	0° る 40'56	-4°09'03	desc. node	16560 Nov 07 04:12	15° ∡ ′54′06	
minimum elong	16559 Dec 04 11:24	0° る 56'24	4°05'22	inferior conj	16560 Nov 14 18:57	11° ∡ ³33'49	-2°26'49
	16559 Dec 05 22:17	30°₽ ∡ 7		minimum elong	16560 Nov 14 13:02	11° ∡ ⁴44'53	2°23'56
min. Earth dist.	16559 Dec 07 07:59	29° ₰ ¹06'04	0.55524 AU	min. Earth dist.	16560 Nov 17 21:52	9° х 14′05	0.57248 AU
morning rise	16559 Dec 12 14:22	26° ₰ 18'16		morning rise	16560 Nov 22 04:33	6° х 35′12	
direct	16559 Dec 18 00:19	25° ∡ 12'14		direct	16560 Nov 28 07:38	5° х 02'41	
	16559 Dec 29 10:11	0°ಕ		morning max el	16560 Dec 12 12:39	12° ∡ 27′25	26°44'43
morning max el	16559 Dec 31 23:09	2° る 14'16	25°14'24		16560 Dec 26 06:04	ರ°ರ	
asc. node	16560 Jan 15 20:38	22° る 08'59		asc. node	16561 Jan 01 17:48	10° る 59'43	
	16560 Jan 20 05:31	0° ≈ ≈		morning set	16561 Jan 11 00:11	29° る 29'37	
morning set	16560 Jan 27 14:03	14° ≈ 59'10			16561 Jan 11 05:50	0° ≈	
superior conj	16560 Feb 03 07:36	29° ≈ 48'31	1°34'58	superior conj	16561 Jan 17 18:29	14° ≈ 26′56	1°38'14
minimum elong	16560 Feb 03 08:41	29° ≈ 54'29	1°35'16	minimum elong	16561 Jan 17 18:31	14° ≈ 27′09	1°38'43
	16560 Feb 03 09:41	0° ∀		max. Earth dist.	16561 Jan 18 07:50	15° ≈ 41'37	1.31124 AU
max. Earth dist.	16560 Feb 05 01:22	3°) 38′25	1.31817 AU	evening rise	16561 Jan 24 16:10	29° ≈ 35'49	
evening rise	16560 Feb 10 13:58	15° ¥ 25'30			16561 Jan 24 20:44	0° ∀	
desc. node	16560 Feb 17 07:06	28°) 34′57		desc. node	16561 Feb 03 03:52	18° ¥ 13'34	

	16561 Feb 10 05:08	0° Υ			16562 Feb 06 22:35	0° Υ	
evening max el	16561 Feb 24 20:02	18° Y ′29'02	27°16'38	evening max el	16562 Feb 06 19:12	29° ¥ 51'59	26°21'13
retrograde	16561 Mar 10 20:58	25° Y 49'30		retrograde	16562 Feb 20 18:59	7° Υ ′00'27	
evening set	16561 Mar 17 13:11	23° Y 51'17		evening set	16562 Feb 27 01:07	5° Y ′26′29	
min. Earth dist.	16561 Mar 21 10:14	21° Y ′06'26	0.60266 AU	min. Earth dist.	16562 Mar 03 08:29		0.58047 AU
inferior conj	16561 Mar 24 15:31	18° Y ′23'07		inferior conj	16562 Mar 06 11:17	0° Y 32'03	
minimum elong	16561 Mar 24 19:50	18° Y 13'56	1°53'48	minimum elong	16562 Mar 06 19:14	0° Υ 17'28	3°24'06
asc. node	16561 Mar 30 15:30	14° Y ′09'52			16562 Mar 07 04:50	30° Ŗ ₩	
morning rise	16561 Apr 01 06:00	13° Y ′34′30		morning rise	16562 Mar 14 16:46	26°) €05'06	
direct	16561 Apr 03 07:24	13° Y 17'31		direct	16562 Mar 16 15:33	25° ¥ 52'21	
morning max el	16561 Apr 10 13:05		17°59'10	asc. node	16562 Mar 17 12:48	25°) €55'04	
	16561 Apr 19 19:21	0° 8			16562 Mar 24 23:22	0° Υ	
morning set	16561 Apr 26 03:00	11° 8 21'16		morning max el	16562 Mar 24 22:17	29° ¥ 57'21	18°31'45
desc. node	16561 May 02 04:49	22° 8 26'33		morning set	16562 Apr 09 20:05	25° Y °25′23	
					16562 Apr 12 05:11	0°B	
superior conj	16561 May 06 11:23	0° Ⅱ 02'24					
minimum elong	16561 May 06 08:24	29° 8 49'20	0°34'54	superior conj	16562 Apr 18 22:19	12° 8 42'10	0°01'10
	16561 May 06 10:50	0°Щ		minimum elong	16562 Apr 18 22:23	12° 8 42'28	0°00'48
max. Earth dist.	16561 May 14 00:19	12° Ⅱ 52'26	1.42520 AU	behind sun begin	16562 Apr 18 15:17	12° 8 09'38	
evening rise	16561 May 19 15:58	22° Ⅱ 02'11		behind sun end	16562 Apr 19 05:28	13° 8 15'13	
	16561 May 24 18:18	0°®		desc. node	16562 Apr 19 01:37	12° 8 57'26	
	16561 Jun 14 21:26	$0^{\circ}\Omega$		max. Earth dist.	16562 Apr 26 08:57	26° 8 01'03	1.40360 AU
evening max el	16561 Jun 21 12:06	7° Ω 32'53	22°16'45		16562 Apr 28 16:53	0°Щ	
asc. node	16561 Jun 26 14:02	11° Ω 42′23		evening rise	16562 Apr 30 13:15	3° Ⅱ 05'59	
retrograde	16561 Jul 01 03:18	13° Ω 10′32			16562 May 18 00:11	0 \circ	
evening set	16561 Jul 05 22:49	11° Ω 09'15		evening max el	16562 Jun 04 02:42	21° © 27'45	23°38'14
inferior conj	16561 Jul 11 04:55	4° Ω 50'02	3°05'39	asc. node	16562 Jun 13 11:01	27° © 39'34	
minimum elong	16561 Jul 11 04:19	4° Ω 52'09	3°05'04	retrograde	16562 Jun 14 22:31	27° © 48'51	
min. Earth dist.	16561 Jul 11 02:49	4° Ω 57'25	0.69185 AU	evening set	16562 Jun 20 05:41	25° © 33'12	
	16561 Jul 14 22:59	30° ₹ ∽		min. Earth dist.	16562 Jun 24 23:27	19° © 58'49	0.69015 AU
morning rise	16561 Jul 16 09:40	28° © 35'52		inferior conj	16562 Jun 25 14:39	19° 5 06'40	2°53'25
direct	16561 Jul 21 01:56	26° © 38'23		minimum elong	16562 Jun 25 13:13	19° © 11'35	2°52'38
	16561 Jul 28 02:58	0 $^{\circ}$ Ω		morning rise	16562 Jun 30 20:44	13° © 00'58	
desc. node	16561 Jul 29 03:53	0° £ 55′22		direct	16562 Jul 05 01:00	11° © 22'48	
morning max el	16561 Jul 30 07:18	2° Ω 01′28	21°51'01	morning max el	16562 Jul 13 02:46	15° © 57'53	20°32'17
	16561 Aug 20 10:48	0° m)		desc. node	16562 Jul 16 01:04	19° © 08'15	
morning set	16561 Aug 31 15:37	17° m 13'45			16562 Jul 24 08:41	0 $^{\circ}$ Ω	
max. Earth dist.	16561 Sep 06 13:33	26° Mp 49'07	1.42009 AU	morning set	16562 Aug 11 03:52	26° Ω 26'51	
	16561 Sep 08 11:25	0∘ 亚			16562 Aug 13 10:51	0° m)	
				max. Earth dist.	16562 Aug 19 23:31	10° m) 18'30	1.43946 AU
superior conj	16561 Sep 14 06:22	9° ≏ 54'18					
minimum elong	16561 Sep 14 11:59	10° ≏ 18'52	1°07'07	superior conj	16562 Aug 26 09:09	20° Mp 44'02	
asc. node	16561 Sep 22 14:45	24° ≏ 52'55		minimum elong	16562 Aug 26 17:04	21°M) 16'51	1°41'42
evening rise	16561 Sep 25 00:58	29° ₽ 20'12			16562 Aug 31 21:29	0∘ ⊽	
	16561 Sep 25 09:38	0° M		evening rise	16562 Sep 07 20:17	12° ≏ 01'10	
evening max el	16561 Oct 11 00:07	24°M42'22	18°09'55	asc. node	16562 Sep 09 11:30	14° ≏ 52'23	
retrograde	16561 Oct 18 03:46	28°M22'14			16562 Sep 18 11:54	0° M	
evening set	16561 Oct 20 07:19	28°M02'54		evening max el	16562 Sep 24 13:43	7° ጤ 52'18	18°00'59
desc. node	16561 Oct 25 01:23	25°M22'50		retrograde	16562 Oct 01 03:07	11°M16'26	
inferior conj	16561 Oct 27 14:36	23°M14'58		evening set	16562 Oct 03 14:14	10° M 47'04	
minimum elong	16561 Oct 27 12:51	23°M18'49		inferior conj	16562 Oct 10 05:22	5° ™ 39'48	0°31'59
min. Earth dist.	16561 Oct 30 20:11	20°M26′17	0.59403 AU	minimum elong	16562 Oct 10 06:19	5° ™ 37'25	0°31'56
morning rise	16561 Nov 03 15:03	17° M 41'22		desc. node	16562 Oct 11 22:36	3° ™ 55'47	
direct	16561 Nov 10 04:05	15°M43'14		min. Earth dist.	16562 Oct 13 04:39	2°M41'55	0.61697 AU
morning max el	16561 Nov 24 10:39	23°M26'22	27°41'43		16562 Oct 16 08:04	30°Ŗ 죠	
	16561 Nov 30 08:34	0° ∡		morning rise	16562 Oct 16 19:37	29° △ 39'23	
	16561 Dec 19 10:40	0° ろ		direct	16562 Oct 23 12:12	27° Ω 20'09	
asc. node	16561 Dec 19 14:54	0° ろ 20'10			16562 Oct 31 06:55	0° ™	
morning set	16561 Dec 26 06:45	13° ප් 46'08		morning max el	16562 Nov 06 15:58	5° ™ 15'48	27°59'15
max. Earth dist.	16562 Jan 01 15:29	27° る 42'49	1.30972 AU	_	16562 Nov 25 06:40	0° ∡ ¹	
		_		asc. node	16562 Dec 06 11:56	20° ₹ 02'12	
superior conj	16562 Jan 02 05:50	29° පි 03'11	1°35'28	morning set	16562 Dec 10 07:45	27° ∡ ⁴44'12	
minimum elong	16562 Jan 02 04:51	28° る 57'38	1°35'59		16562 Dec 11 09:49	0°ಕ	
	16562 Jan 02 15:58	0° ≈		max. Earth dist.	16562 Dec 15 20:25	9° ප 33'08	1.31381 AU
evening rise	16562 Jan 08 23:04	13° ≈ 55'59				_	
	16562 Jan 16 21:42	0° ∺		superior conj	16562 Dec 17 15:50	13° る 32'37	1°26'38
desc. node	16562 Jan 21 00:40	7° ¥ 22'17		minimum elong	16562 Dec 17 13:59	13° る 22'24	1°27'02

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evening rise	16562 Dec 24 08:48	28° පි 21'50			16563 Dec 02 22:29	ರ∘ರ	
	16562 Dec 25 03:01	0° ≈		evening rise	16563 Dec 08 19:32	12° る 48'27	
desc. node	16563 Jan 07 21:29	25° ≈ 50′15			16563 Dec 17 08:41	0° ≈ ≈	
	16563 Jan 10 16:34	0°) €		desc. node	16563 Dec 25 18:22	13° ≈ 22'22	
evening max el	16563 Jan 19 09:50	10°) 23′26	24°55'40	evening max el	16563 Dec 31 19:24	20° ≈ 22'05	23°13'28
retrograde	16563 Feb 02 04:48	17° ¥ 17′28		retrograde	16564 Jan 14 01:02	26° ≈ 54'31	
evening set	16563 Feb 07 15:51	16° ∺ 11′00		evening set	16564 Jan 18 08:26	26° ≈ 14'21	
min. Earth dist.	16563 Feb 12 22:06	13°) 24′43	0.56130 AU	min. Earth dist.	16564 Jan 25 06:01	23° ≈ 00'50	0.54818 AU
inferior conj	16563 Feb 15 09:53	11°) 49′32		inferior conj	16564 Jan 26 12:40	22° ≈ 16'45	
minimum elong	16563 Feb 15 19:20	11°) 34′29	4°51'21	minimum elong	16564 Jan 26 17:41	22° ≈ 09'32	5°51'31
morning rise	16563 Feb 24 01:20	7°) (43′30		morning rise	16564 Feb 04 04:13	18° ≈ 25'26	
direct	16563 Feb 26 04:09	7° ∺ 31′01		direct	16564 Feb 06 22:09	18° ≈ 07'28	
asc. node	16563 Mar 04 10:04	9°) €27'48		morning max el	16564 Feb 18 05:48	23° ≈ 36′23	20°44'06
morning max el	16563 Mar 07 21:09	12° 升 14'53	19°26'15	asc. node	16564 Feb 19 07:19	24°≈40'55	
. ,	16563 Mar 19 20:45	0° Υ			16564 Feb 23 15:22	0°) {	
morning set	16563 Mar 24 22:00	9° Ƴ 51'15		morning set	16564 Mar 08 05:38 16564 Mar 10 21:10	24° ¥ 29'42 0° Ƴ	
superior conj	16563 Apr 02 01:36	26° Y ′05'12	0°32'36				
minimum elong	16563 Apr 02 03:27	26° Y °14'11	0°32'04	superior conj	16564 Mar 15 17:05	9° Ƴ 59'45	0°58'08
	16563 Apr 04 02:15	0°8		minimum elong	16564 Mar 15 19:34	10° Y °12'29	0°57'41
desc. node	16563 Apr 05 22:23	3° 8 29'03		max. Earth dist.	16564 Mar 20 22:37	20° Y ′24'41	1.35848 AU
max. Earth dist.	16563 Apr 08 14:45	8° 8 26'49	1.38055 AU	desc. node	16564 Mar 22 19:08	23° Y ′57'45	
evening rise	16563 Apr 12 07:29	15° 8 03'12		evening rise	16564 Mar 24 19:51	27° Ƴ 45'25	
Ü	16563 Apr 21 06:34	0°II		S	16564 Mar 26 01:15	$0^{\circ}B$	
	16563 May 12 17:03	0ಂಣ			16564 Apr 13 14:27	$\Pi^{\circ}0$	
evening max el	16563 May 17 16:02	5°522'38	24°58'04	evening max el	16564 Apr 29 05:40	19° Ⅱ 14'49	26°08'50
retrograde	16563 May 29 14:01	12° © 19'12		retrograde	16564 May 12 00:43	26° Ⅱ 34'40	
asc. node	16563 May 31 08:01	12°506'29		asc. node	16564 May 17 05:04	24° Ⅱ 49'21	
evening set	16563 Jun 04 08:30	9° © 52'56		evening set	16564 May 18 05:32	24° Ⅲ 02'45	
min. Earth dist.	16563 Jun 08 18:01	4° © 55'45	0.68357 AU	min. Earth dist.	16564 May 22 08:30	19° Ⅱ 41'32	0.67234 AU
inferior conj	16563 Jun 09 22:18	3°522'25	2°30'34	inferior conj	16564 May 24 01:52	17° Ⅲ 33′02	1°56'22
minimum elong	16563 Jun 09 20:17	3°529'06	2°29'32	minimum elong	16564 May 23 23:41	17° Ⅱ 39'50	1°55'10
	16563 Jun 12 14:51	30°RⅡ		morning rise	16564 May 29 18:37	11° Ⅱ 47'52	
morning rise	16563 Jun 15 08:21	27° Ⅱ 26′19		direct	16564 Jun 02 00:55	10° Ⅱ 47'25	
direct	16563 Jun 19 01:12	26° Ⅱ 07'36		morning max el	16564 Jun 08 14:33	14° Ⅱ 17'37	18°36'38
morning max el	16563 Jun 26 05:13	0° © 04'10	19°26'36	desc. node	16564 Jun 18 19:19	27° Ⅲ 35'35	
	16563 Jun 26 03:31	0ං වෙ			16564 Jun 20 09:36	0° ©	
desc. node	16563 Jul 02 22:13	8°905'28		morning set	16564 Jun 30 00:59	14°958'00	
greatest brilliancy	16563 Jul 08 21:39	16°934'40	-0.7m	P 4 P	16564 Jul 09 15:58	0°N	
. ,	16563 Jul 17 19:50	0°Ω 5°Ω22124		max. Earth dist.	16564 Jul 15 10:12	8° 3 (58'33	1.45983 AU
morning set	16563 Jul 21 08:21	5° Ω 23'24	1 45212 411		16564 1 1 16 00 20	00 05 4155	201.411.6
max. Earth dist.	16563 Aug 02 14:55	24° Ω 26'09	1.45312 AU	superior conj	16564 Jul 16 00:39	9° Ω 54'55	
	16563 Aug 06 03:29	0° m)		minimum elong	16564 Jul 15 23:40 16564 Jul 28 19:58	9° Ω 51'04 0° m	2-14-45
superior conj	16563 Aug 06 12:51	0° mp 37'12	2°06'54	evening rise	16564 Jul 31 16:36	4° Mp 31'43	
minimum elong	16563 Aug 06 18:54	1°Mp01'16		greatest brilliancy	16564 Aug 07 22:25	15° m) 59'41	-0.9m
evening rise	16563 Aug 20 18:51	23° Mp 47'55	2 00 30	asc. node	16564 Aug 13 04:58	24° M) 06'37	-0.7111
- vennig 1150	16563 Aug 24 12:33	ე∘ ი		ase. node	16564 Aug 17 08:25	ე∘ <u>ი</u>	
asc. node	16563 Aug 27 08:14	4° £ 38'39		evening max el	16564 Aug 21 17:56	5° ♀ 10'31	18°37'39
evening max el	16563 Sep 08 04:42	21° ♀ 24'17	18°10'32	retrograde	16564 Aug 28 06:47	8° £ 42'00	
retrograde	16563 Sep 14 13:23	24° £ 45'36		evening set	16564 Aug 31 11:58	7° £ 43'11	
evening set	16563 Sep 17 09:12	24° ≏ 02'48		inferior conj	16564 Sep 06 04:06	2° ♀ 04'25	2°18'29
inferior conj	16563 Sep 23 11:07	18° ≏ 38'49	1°34'06	minimum elong	16564 Sep 06 06:20	1° ≏ 57'30	
minimum elong	16563 Sep 23 13:16	18° ≙ 32'48	1°33'33		16564 Sep 07 20:35	30°R, Mp	
min. Earth dist.	16563 Sep 25 23:08	15° ≙ 50'53	0.63893 AU	min. Earth dist.	16564 Sep 08 02:36	29° m 41'52	0.65817 AU
desc. node	16563 Sep 28 19:52	13° ≏ 01'36		morning rise	16564 Sep 11 23:35	25° m 39'10	
morning rise	16563 Sep 29 15:24	12° ≏ 21'38		desc. node	16564 Sep 14 17:09	23° m 51'46	
direct	16563 Oct 06 05:58	9° ≙ 49'01		direct	16564 Sep 18 07:42	23° m 02'09	
morning max el	16563 Oct 20 01:34	17° ≏ 47'09	27°39'12		16564 Sep 30 16:55	0∘ ⊽	
	16563 Oct 30 07:57	0° M		morning max el	16564 Oct 01 12:51	0° ჲ 49'17	26°48'15
	16563 Nov 18 03:19	0° ∡ 7			16564 Oct 23 08:39	0° M	
asc. node	16563 Nov 23 08:53	9° ∡ 758'53		morning set	16564 Nov 06 06:42	24°Ml19'27	
morning set	16563 Nov 24 00:42	11° ∡ 17′25		asc. node	16564 Nov 09 05:48	0° ∡ ¹05′17	
max. Earth dist.	16563 Nov 28 18:45	21° ∡ ¹03'57	1.32365 AU		16564 Nov 09 04:44	0° ∡ ¹	
				max. Earth dist.	16564 Nov 10 07:55	2° ∡ 15'22	1.33912 AU
superior conj	16563 Dec 01 22:25	27° ∡ ¹49'17 −					
minimum elong	16563 Dec 01 20:05	27° ∡ ¹36'37	1°11'50	superior conj	16564 Nov 14 23:21	11° ∡ ′47′36	0°50'15

minimum elong evening rise	16564 Nov 14 21:06 16564 Nov 22 05:27	11° ∡ ³35'48 27° ∡ ³11'55	0°50'25	superior conj minimum elong	16565 Oct 29 15:49 16565 Oct 29 14:29	25°M20'33 25°M13'54	0°22'49 0°23'02
desc. node	16564 Nov 23 13:26 16564 Dec 11 15:19	0°る 29°る39'48		evening rise	16565 Oct 31 22:58 16565 Nov 06 12:29	0° √ 11° √ 27'10	
dese. Hode	16564 Dec 11 23:12	0° ≈		evening rise	16565 Nov 16 05:45	0°る	
evening max el	16564 Dec 12 08:35	0° ≈ 23′24	21°32'44	evening max el	16565 Nov 24 09:51	11° る 00'57	20°07'50
retrograde	16564 Dec 24 11:10	6° ≈ 22'19		desc. node	16565 Nov 28 12:20	14° ろ 19'29	
evening set	16564 Dec 27 12:42	6°≈00'57	5056125	retrograde	16565 Dec 04 23:13	16°る16'35	
inferior conj	16565 Jan 05 03:59	2°≈11'26		evening set	16565 Dec 07 03:47	16°る04'04 12°る06'58	5000140
minimum elong min. Earth dist.	16565 Jan 04 23:41 16565 Jan 05 11:10	2°≈17'26 2°≈01'23		inferior conj minimum elong	16565 Dec 15 22:07 16565 Dec 15 12:18	12 3 00 38	4°57'37
mm. Earth dist.	16565 Jan 09 06:13	30°Rる	0.54502 710	min. Earth dist.	16565 Dec 17 17:02	11° る 02'39	0.54844 AU
morning rise	16565 Jan 13 11:09	28° る 22'38		morning rise	16565 Dec 23 20:01	8° ට 01'53	
direct	16565 Jan 17 06:20	27° ප 51'14		direct	16565 Dec 28 17:06	7° ට 10'16	
	16565 Jan 24 17:22	0° ≈		morning max el	16566 Jan 11 08:34	13° る 55'23	24°13'07
morning max el	16565 Jan 29 23:33	4° ≈ 02'18	22°23'04	asc. node	16566 Jan 23 01:51	28° る 57'51	
asc. node	16565 Feb 05 04:36	11° ≈ 17'04			16566 Jan 23 17:14	0° ≈	
	16565 Feb 16 05:02	0°){		morning set	16566 Feb 05 04:29	23°≈56'07	
morning set	16565 Feb 20 16:28	9° ∺ 13'09			16566 Feb 07 23:29	0° ∀	
superior conj	16565 Feb 27 17:16	24°) 15′54		superior conj	16566 Feb 11 23:26	8° ¥ 46′15	1°30'19
minimum elong	16565 Feb 27 19:35	24°) (28'12	1°17'12	minimum elong	16566 Feb 12 01:03	8° ¥ 55'06	1°30'28
P. d. F.	16565 Mar 02 10:51	0°Υ 2° Ω (1.410.1	1 22020 444	max. Earth dist.	16566 Feb 14 10:49	14°) €08'03	1.32453 AU
max. Earth dist.	16565 Mar 03 12:51 16565 Mar 07 22:44	2° Υ 14'01 11° Υ 02'06	1.33939 AU	evening rise	16566 Feb 19 12:52 16566 Feb 22 04:21	24°) 45′11 0° °	
evening rise desc. node	16565 Mar 09 15:51	11° γ 02'06 14° Υ 19'00		desc. node	16566 Feb 24 12:36	4° Υ 28'32	
desc. node	16565 Mar 18 11:36	0° 8		desc. node	16566 Mar 11 23:56	0° 8	
	16565 Apr 08 23:29	0°II		evening max el	16566 Mar 25 08:14	16° 8 12'20	27°32'51
evening max el	16565 Apr 11 19:33	2° ∏ 55'19	27°02'54	retrograde	16566 Apr 08 03:28	23° 8 44'46	_,
retrograde	16565 Apr 25 05:29	10° Ⅲ 26′13		evening set	16566 Apr 14 21:58	21° 8 20'03	
evening set	16565 May 01 18:46	7° Ⅱ 54'31		min. Earth dist.	16566 Apr 18 16:38	18° 8 02'35	0.63762 AU
asc. node	16565 May 04 02:12	5° Ⅱ 49'44		asc. node	16566 Apr 20 23:24	15° 8 41'34	
min. Earth dist.	16565 May 05 16:40	4° Ⅱ 07'09	0.65681 AU	inferior conj	16566 Apr 21 10:45	15° 8 12'00	0°08'54
inferior conj	16565 May 07 22:57	1° Ⅲ 31'54	1°09'34	minimum elong	16566 Apr 21 10:30	15° 8 12'40	0°08'24
minimum elong	16565 May 07 21:15	1° Ⅱ 36'46	1°08'28	transit middle	16566 Apr 21 10:30	15° 8 12'40	0°08'24
morning rise	16565 May 09 07:35	30°R と 25° と 59'28		transit begin transit end	16566 Apr 21 07:50	15° 8 19'36 15° 8 05'45	
direct	16565 May 14 01:16 16565 May 16 21:55	25° 8 15'10		morning rise	16566 Apr 21 13:10 16566 Apr 28 01:29	9° 8 54'41	
morning max el	16565 May 23 05:10	28° 8 31'40	18°03'30	direct	16566 Apr 30 13:27	9° 8 23'41	
morning max ci	16565 May 24 15:02	0°Ⅱ	10 03 30	morning max el	16566 May 06 22:34	12° 8 38'48	17°47'38
desc. node	16565 Jun 05 16:21	17° Ⅱ 29'11			16566 May 19 00:46	0°II	
morning set	16565 Jun 10 18:53	25° Ⅱ 45'32		morning set	16566 May 23 15:21	7° Ⅱ 48'15	
	16565 Jun 13 09:41	0∘დ		desc. node	16566 May 23 13:21	7° Ⅱ 39'42	
superior conj	16565 Jun 25 11:43	19° 5 016'14	-2°01'36	superior conj	16566 Jun 05 13:55	29° Ⅱ 22'11	-1°33'08
minimum elong	16565 Jun 25 04:18	18° 5 47'04		minimum elong	16566 Jun 05 05:45	28° Ⅱ 49'06	1°32'49
max. Earth dist.	16565 Jun 28 07:02	23° © 39'54	1.45899 AU		16566 Jun 05 23:15	0 \circ \odot	
	16565 Jul 02 08:39	0° U		max. Earth dist.	16566 Jun 11 02:30	8°512'59	1.45075 AU
evening rise	16565 Jul 11 15:05	14° Ω 19'18		evening rise	16566 Jun 21 01:45	23°9542'57	
greatest brilliancy	16565 Jul 21 21:29 16565 Jul 24 04:33	0° Тр 3° Тр 25'34	0.7		16566 Jun 25 04:58	0° Ω 0° m	
asc. node	16565 Jul 31 01:44	13° Mp 08'59	-0.7m	asc. node	16566 Jul 16 12:04 16566 Jul 17 22:33	1° m)37'01	
evening max el	16565 Aug 05 02:49	19° m ₀ 03'27	19°21'25	evening max el	16566 Jul 19 05:48	2° m/58'18	20°20'19
retrograde	16565 Aug 12 04:11	22° m 58'04		retrograde	16566 Jul 27 03:16	7° m) 27'47	
evening set	16565 Aug 15 19:20	21° m/41'39		evening set	16566 Jul 31 04:56	5° m 53'22	
inferior conj	16565 Aug 21 04:59	15° m 49'40	2°47'34	inferior conj	16566 Aug 05 11:07	29° Ω 49'29	3°03'32
minimum elong	16565 Aug 21 06:43	15° m 44'00	2°47'04	minimum elong	16566 Aug 05 12:00	29° Ω 46′27	3°03'06
min. Earth dist.	16565 Aug 22 13:29	14° m 03'07	0.67353 AU		16566 Aug 05 08:03	30°R Ω	
morning rise	16565 Aug 26 17:28	9° Mg 22'40		min. Earth dist.	16566 Aug 06 05:53	28° Ω 45'16	0.68442 AU
direct	16565 Sep 01 15:58	6° Mp 49'30		morning rise	16566 Aug 10 18:44	23° Ω 25'10	
desc. node	16565 Sep 01 14:28	6° Mp 49'31	25925112	direct	16566 Aug 16 05:56	21°\(\O2'23\)	
morning max el	16565 Sep. 26, 22:22	14° Mp 11'14	25~35'13	desc. node	16566 Aug 19 11:47	21°\O44'30	24000120
	16565 Sep 26 22:22 16565 Oct 16 03:33	0° Մ 0° 亞		morning max el	16566 Aug 27 11:22 16566 Aug 29 14:27	27° Ω 44'58 0° m	24°09'29
morning set	16565 Oct 19 22:13	6°M₄42'27			16566 Sep 20 13:59	0∘ ত اللا	
max. Earth dist.	16565 Oct 23 12:10	13°M20'19	1.35940 AU	morning set	16566 Oct 01 19:08	0 – 18° ≏ 16'58	
asc. node	16565 Oct 27 02:41	20°M16'55		max. Earth dist.	16566 Oct 05 11:18	24° ≏ 42'29	1.38287 AU

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	16566 Oct 08 09:36	0°M			16567 Sep 13 09:32	0∘ ⊽	
				max. Earth dist.	16567 Sep 17 11:24	6° ≏ 47'32	1.40700 AU
superior conj	16566 Oct 12 20:19	8°M19'16			165650 25 00 50	200 2 2 5122	0046124
minimum elong	16566 Oct 12 21:00	8°M22'29	0°09'36	superior conj	16567 Sep 25 08:50	20° Ω 35'23	
behind sun begin	16566 Oct 12 15:22	7°M55'39		minimum elong	16567 Sep 25 12:31	20° Ω 52'04	0°45'48
behind sun end	16566 Oct 13 02:37	8°M49'22		4-	16567 Sep 30 11:41	0°ጤ 0°ጤ40'11	
asc. node evening rise	16566 Oct 13 23:29 16566 Oct 21 14:09	10°M29'34 25°M27'23		asc. node evening rise	16567 Sep 30 20:16 16567 Oct 05 07:23	9°M05'22	
evening rise	16566 Oct 23 21:35	23 1162723 0° x 7		evening rise	16567 Oct 17 07:54	9 11603 22 0° x 7	
evening max el	16566 Nov 07 01:34	22° ∡ 128′07	19°04'47	evening max el	16567 Oct 21 05:12	4° ∡ ⁷ 43'06	18°23'57
desc. node	16566 Nov 15 09:26	26° x 58'00	19 0447	retrograde	16567 Oct 28 21:54	8° × 37'58	18 23 37
retrograde	16566 Nov 16 01:05	26° ₹ 59′23		evening set	16567 Oct 30 21:53	8°×722'50	
evening set	16566 Nov 17 22:33	26°×748'08		desc. node	16567 Nov 02 06:35	7° ₹ 29'03	
inferior conj	16566 Nov 26 07:56	22°×133'54	-3°26'26	inferior conj	16567 Nov 07 15:15	3° х 47′33	-1°43'53
minimum elong	16566 Nov 25 23:37	22° х 48'11	3°22'51	minimum elong	16567 Nov 07 11:13		1°41'44
min. Earth dist.	16566 Nov 29 03:20	20°×38'31	0.56175 AU	min. Earth dist.	16567 Nov 10 20:51	1° ≯ 12'50	0.58126 AU
morning rise	16566 Dec 03 22:03	17° х 56'13	0.00170110	min. Burun dige.	16567 Nov 12 12:44	30°RM	0.00120110
direct	16566 Dec 09 15:50	16° х 39′21		morning rise	16567 Nov 14 21:05	28°M33'07	
morning max el	16566 Dec 23 18:31	23° х 51'57	25°56'14	direct	16567 Nov 21 05:15	26°M49'03	
5 5	16566 Dec 29 08:15	0°る			16567 Nov 30 04:21	0° ⊼	
asc. node	16567 Jan 09 23:04	17° る 26'31		morning max el	16567 Dec 05 11:37	4° ∡ °23′09	27°13'35
	16567 Jan 16 14:03	0° ≈		C	16567 Dec 24 05:11	ರ°0	
morning set	16567 Jan 20 15:49	8° ≈ 32'22		asc. node	16567 Dec 27 20:13	6° ට 30'46	
				morning set	16568 Jan 05 00:39	22° る 57'11	
superior conj	16567 Jan 27 09:10	23° ≈ 23'17	1°37'06		16568 Jan 08 06:14	0°≈	
minimum elong	16567 Jan 27 09:49	23° ≈ 26'53	1°37'29				
max. Earth dist.	16567 Jan 28 14:50	26° ≈ 07'57	1.31455 AU	superior conj	16568 Jan 11 20:28	8° ≈ 01'19	1°37'49
	16567 Jan 30 08:58	0° ∀		minimum elong	16568 Jan 11 20:04	7° ≈ 59'01	1°38'19
evening rise	16567 Feb 03 11:19	8°) 46′49		max. Earth dist.	16568 Jan 11 22:00	8° ≈ 09'51	1.30987 AU
desc. node	16567 Feb 11 09:20	24°) €20'04		evening rise	16568 Jan 18 15:43	23° ≈ 01'31	
	16567 Feb 14 13:43	0 ° $\mathbf{\Upsilon}$			16568 Jan 21 23:56	0°) €	
evening max el	16567 Mar 07 17:33		27°32'21	desc. node	16568 Jan 29 06:05	13°) 46′43	
	16567 Mar 08 22:32	9° 8			16568 Feb 08 15:07	0 ° Υ	
retrograde	16567 Mar 21 17:37	6° 8 19'52		evening max el	16568 Feb 17 21:10	10° Y ′46′24	26°57'15
evening set	16567 Mar 28 12:27	4° 8 09'40		retrograde	16568 Mar 02 22:27	18° Y ′02'46	
min. Earth dist.	16567 Apr 01 07:01	1° 8 15'35	0.61576 AU	evening set	16568 Mar 09 11:07	16° Y 14′20	
	16567 Apr 02 16:34	30° ₹ Υ		min. Earth dist.	16568 Mar 13 11:19	13° Y 33'57	0.59299 AU
inferior conj	16567 Apr 04 09:57	28° Y 24'24		inferior conj	16568 Mar 16 16:49	10° Y 59'38	
minimum elong	16567 Apr 04 12:18	28° Y 19′02	1°05'31	minimum elong	16568 Mar 16 22:43	10° Y 47'49	2°31'31
asc. node	16567 Apr 07 20:40	25°Υ28'33		morning rise	16568 Mar 24 13:59	6° Y 20′09	
morning rise	16567 Apr 11 15:27	23° Υ 24'51		asc. node	16568 Mar 24 17:57	6° Y 17'51	
direct	16567 Apr 13 20:01	23°Υ03'52	17040125	direct	16568 Mar 26 13:31	6°Υ05'32	10010126
morning max el	16567 Apr 20 15:41	26° Y 29'31	17°49'35	morning max el	16568 Apr 03 04:55	9° Y 53′22	18°10'26
morning set	16567 Apr 23 17:05 16567 May 06 09:35	0° と 20° と 51'10		morning sat	16568 Apr 16 08:14 16568 Apr 18 19:47	0° と 4° と 37'19	
desc. node	16567 May 10 10:15	28° 8 01'29		morning set desc. node	16568 Apr 26 07:04	18° 8 30'05	
desc. node	16567 May 11 13:06	28 3 01 29 0° Ⅱ		desc. Hode	10308 Apr 20 07.04	18 03003	
	1000, may 11 15.00	ν <u>н</u>		superior conj	16568 Apr 28 14:24	22° 8 40'13	-0°19'10
superior conj	16567 May 17 14:53	10° Ⅲ 30'56	-0°56'42	minimum elong	16568 Apr 28 12:50	22° 8 33'15	
minimum elong	16567 May 17 09:46	10° Ⅱ 09'15		8	16568 May 02 18:12	0°II	v
max. Earth dist.	16567 May 24 18:00		1.43597 AU	max. Earth dist.	16568 May 06 04:46	5°∏52'22	1.41632 AU
	16567 May 29 12:51	0ಂತಾ		evening rise	16568 May 11 02:32	13° Ⅱ 58'04	
evening rise	16567 May 31 17:26	3°526'02		C	16568 May 21 09:48	0∘ ©	
-	16567 Jun 18 14:51	$0^{\circ}\Omega$			16568 Jun 13 00:08	$0^{\circ}\Omega$	
evening max el	16567 Jul 02 02:46	16° Ω 53'16	21°31'45	evening max el	16568 Jun 13 19:09	0° Ω 48'15	22°51'17
asc. node	16567 Jul 04 19:24	19° Ω 19'10		asc. node	16568 Jun 20 16:19	5° Ω 59'42	
retrograde	16567 Jul 11 02:01	22° Ω 05'41		retrograde	16568 Jun 23 22:52	6° Ω 45'16	
evening set	16567 Jul 15 14:49	20° Ω 13'53		evening set	16568 Jun 28 23:13	4° Ω 37'46	
inferior conj	16567 Jul 20 20:14	13° Ω 59'41	3°07'58		16568 Jul 02 23:53	30° ₹ 5	
minimum elong	16567 Jul 20 20:10	13° Ω 59'55	3°07'29	inferior conj	16568 Jul 04 06:17	28° © 15'06	3°01'44
min. Earth dist.	16567 Jul 21 01:42	13° Ω 40′38	0.69049 AU	minimum elong	16568 Jul 04 05:18	28° © 18'30	3°01'05
morning rise	16567 Jul 26 01:18	7° Ω 41'00		min. Earth dist.	16568 Jul 03 22:40	28° 5 41'34	0.69169 AU
direct	16567 Jul 31 00:28	5° Ω 33'20		morning rise	16568 Jul 09 11:15	22° © 04'08	
desc. node	16567 Aug 06 09:04	8° Ω 14'00		direct	16568 Jul 13 22:23	20° © 14'35	
morning max el	16567 Aug 09 23:34	11° Ω 26'51	22°40'27	morning max el	16568 Jul 22 15:28	25° © 16'43	21°16'05
	16567 Aug 24 18:03	0° т р		desc. node	16568 Jul 23 06:18	25°\$54'26	
morning set	16567 Sep 12 17:43	28° M 55'20			16568 Jul 26 21:20	$0 {\circ} \Omega$	

	16568 Aug 17 03:38	0° m		morning max el	16569 Jul 05 13:42	9° © 17'11	20°02'28
morning set	16568 Aug 22 16:50	8° Mp 34'30		desc. node	16569 Jul 10 03:28	14° © 27'47	
max. Earth dist.	16568 Aug 29 17:14	19° m 46'50	1.42893 AU		16569 Jul 21 07:44	$0^{\circ}\Omega$	
	16568 Sep 04 20:58	0∘ ⊽		morning set	16569 Aug 01 23:30	17° Ω 34′08	
					16569 Aug 09 23:32	0° ™	
superior conj	16568 Sep 06 00:53	1° ჲ 58'36		max. Earth dist.	16569 Aug 12 05:59	3°My35'13	1.44618 AU
minimum elong	16568 Sep 06 07:46	2° م 27'57	1°22'27				
asc. node	16568 Sep 16 16:59	20° ≏ 44'30		superior conj	16569 Aug 17 17:33	12° m 23'09	
evening rise	16568 Sep 17 12:02	22° ≏ 10'09		minimum elong	16569 Aug 18 01:22	12° m 54'55	1°54'03
	16568 Sep 21 21:02	0°M₊			16569 Aug 28 07:52	0∘ ⊽	
evening max el	16568 Oct 03 16:24	17°M35'53	18°03'49	evening rise	16569 Aug 30 23:06	4° Ω 29'11	
retrograde	16568 Oct 10 12:36	21°M07'02		asc. node	16569 Sep 03 13:41	10° △ 38'36	
evening set	16568 Oct 12 19:17	20°M43'48			16569 Sep 16 09:29	0°M	
desc. node	16568 Oct 19 03:47	16°M23'40	001010	evening max el	16569 Sep 17 07:02	0°M56'06	18°02'50
inferior conj	16568 Oct 19 19:26	15°M47'33		retrograde	16569 Sep 23 17:07	4°M17'12	
minimum elong	16568 Oct 19 19:02	15°M48'30	0°11'52	evening set	16569 Sep 26 07:58	3°M42'18	
transit middle	16568 Oct 19 19:02	15°M48'30	0°11'52	: <i>c</i> :	16569 Oct 01 05:11	30° ₹ Ω	1000140
transit begin transit end	16568 Oct 19 16:47 16568 Oct 19 21:17	15°M.53'43 15°M.43'15		inferior conj minimum elong	16569 Oct 02 17:02 16569 Oct 02 18:39	28° £ 27'25 28° £ 23'08	1°00'40 1°00'19
min. Earth dist.	16568 Oct 22 23:18	12°M52'24	0.60385 AU	min. Earth dist.	16569 Oct 05 11:50	26 = 23 08 25° £ 31'57	0.62663 AU
morning rise	16568 Oct 26 15:37	12 IIL32 24 10°ML01'37	0.00383 AU	desc. node	16569 Oct 06 01:01	23 ⊆ 31 37 24° ⊆ 59'03	0.02003 AU
direct	16568 Nov 02 07:11	7°M.53'25		morning rise	16569 Oct 09 03:00	22° £ 18'56	
morning max el	16568 Nov 16 12:45	15°M42'38	27°53'57	direct	16569 Oct 15 19:23	19° £ 53'12	
morning max ci	16568 Nov 28 05:39	0° √	21 33 31	morning max el	16569 Oct 29 20:05	27° ⊆ 50'16	27°55'00
asc. node	16568 Dec 13 17:17	26° ₹ '00'53		morning max or	16569 Oct 31 22:01	0°M	27 33 00
	16568 Dec 15 18:00	0°ਰ			16569 Nov 22 00:18	0° ⊼	
morning set	16568 Dec 19 05:05	7° る 05'54		asc. node	16569 Nov 30 14:16	15° √ 49'31	
max. Earth dist.	16568 Dec 25 04:49	20° පි 06'27	1.31074 AU	morning set	16569 Dec 03 02:56	20° х 53′29	
				Č	16569 Dec 07 11:12	ರ°0	
superior conj	16568 Dec 26 07:29	22° る 35'05	1°32'29	max. Earth dist.	16569 Dec 08 07:29	1° る 49'22	1.31733 AU
minimum elong	16568 Dec 26 06:05	22° る 27'21	1°32'57				
	16568 Dec 29 15:09	0° ≈		superior conj	16569 Dec 10 16:15	6° る 59'19	1°21'00
evening rise	16569 Jan 02 00:03	7° ≈ 24'30		minimum elong	16569 Dec 10 14:09	6° る 47'42	1°21'21
	16569 Jan 13 13:01	0° ∀		evening rise	16569 Dec 17 10:26	21° る 51'04	
desc. node	16569 Jan 15 02:53	2°) 39′23			16569 Dec 21 07:11	0° ≈	
evening max el	16569 Jan 29 16:56	21°) (47′28	25°48'04	desc. node	16570 Jan 01 23:44	20° ≈ 45′20	
retrograde	16569 Feb 12 15:29	28°) 49'45			16570 Jan 09 05:01	0° ∀	
evening set	16569 Feb 18 14:25	27° ∺ 27'41		evening max el	16570 Jan 11 04:44	2° ∺ 01'17	24°13'12
min. Earth dist.	16569 Feb 23 05:55		0.57171 AU	retrograde	16570 Jan 24 18:55	8°) 46′42	
inferior conj	16569 Feb 26 03:50	22°) 47′57		evening set	16570 Jan 29 19:23	7°) €51'49	
minimum elong	16569 Feb 26 12:53	22°) 32′18	4°02'37	min. Earth dist.	16570 Feb 04 16:27		0.55481 AU
morning rise	16569 Mar 06 14:25	18° ¥ 29'47		inferior conj	16570 Feb 06 17:26	3°) 42′35	
direct	16569 Mar 08 13:48	18°) 17'41		minimum elong	16570 Feb 07 01:53	3° ¥ 29'49	5°22'01
asc. node	16569 Mar 11 15:15	18°) 48′22	10050106		16570 Feb 14 07:44	30°R≈	
morning max el	16569 Mar 17 10:13	22°) ₹38'30	18°52'06	morning rise	16570 Feb 15 10:17	29°≈44'01	
	16569 Mar 23 05:50	0° Υ 18° Υ 52'41		direct	16570 Feb 17 18:18	29° ≈ 29'54 0°) €	
morning set	16569 Apr 02 17:08 16569 Apr 08 09:45	0° 8		asc. node	16570 Feb 21 01:43 16570 Feb 26 12:32	3°) €05'08	
	10309 Apr 08 09.43	0.0		morning max el	16570 Feb 28 03:18	4°) 32′16	19°56'35
superior conj	16569 Apr 11 08:51	5° 8 40'10	0°15'10	morning max ci	16570 Mar 16 05:13	4 χ32 10 0°Υ	17 3033
minimum elong	16569 Apr 11 09:49	5° 8 44'46	0°14'41	morning set	16570 Mar 17 21:51	3° Υ 24'59	
behind sun begin	16569 Apr 11 07:11	5° 8 32'14	0 11 11	morning sec	103/011141 1/ 21.31	5 (215)	
behind sun end	16569 Apr 11 12:28	5° 8 57'16		superior conj	16570 Mar 25 17:48	19° Ƴ 17'42	0°44'11
desc. node	16569 Apr 13 03:51	9° 8 01'55		minimum elong	16570 Mar 25 20:02	19° Υ 28'51	0°43'40
max. Earth dist.	16569 Apr 18 12:02	18° 8 43'22	1.39386 AU	desc. node	16570 Mar 31 00:36	29° Y 32'28	
evening rise	16569 Apr 22 09:05	25° 8 26'24			16570 Mar 31 06:27	0° ႘	
C	16569 Apr 25 02:23	Π°		max. Earth dist.	16570 Mar 31 18:33	0° 8 56'44	1.37092 AU
	16569 May 15 01:44	0ಂತಾ		evening rise	16570 Apr 04 11:27	7° 8 43'34	
evening max el	16569 May 27 09:12	14° 5 644'22	24°12'50	-	16570 Apr 17 22:00	Π °0	
retrograde	16569 Jun 07 16:28	21° 5 21'08		evening max el	16570 May 09 22:37	28° Ⅲ 38'48	25°29'37
asc. node	16569 Jun 07 13:18	21° 5 21'03			16570 May 11 08:45	0 \circ \odot	
evening set	16569 Jun 13 04:33	19° © 00'38		retrograde	16570 May 22 05:55	5° 5 46'09	
min. Earth dist.	16569 Jun 17 18:42	13° 5 42'07	0.68802 AU	asc. node	16570 May 25 10:20	5° 5 04'54	
inferior conj	16569 Jun 18 15:23	12° 5 32'10	2°45'04	evening set	16570 May 28 05:07	3° 5 016'40	
minimum elong	16569 Jun 18 13:39	12° © 38'00	2°44'10		16570 May 31 08:24	30°RⅡ	
morning rise	16569 Jun 23 22:49	6° © 30'20		min. Earth dist.	16570 Jun 01 11:39	28° Ⅲ 35'15	0.67944 AU
direct	16569 Jun 27 22:14	5° © 00'17		inferior conj	16570 Jun 02 21:33	26° ∏ 46′04	2°17'32

minimum elong	16570 Jun 02 19:23	26° Ⅲ 53'01	2°16'23	morning rise	16571 May 23 19:09	5° Ⅱ 12'06	
morning rise	16570 Jun 08 10:08	20° I I54'39	2 1023	direct	16571 May 26 21:10	4° Ⅱ 18'59	
direct	16570 Jun 11 22:28	19° Ⅱ 43'51		morning max el	16571 Jun 02 07:11	7° Ⅱ 41'49	18°20'29
morning max el	16570 Jun 18 19:15		19°03'21	desc. node	16571 Jun 13 21:42	23° Ⅱ 20'42	
C	16570 Jun 24 08:42	0° ©			16571 Jun 18 03:32	0ංම	
desc. node	16570 Jun 27 00:36	3°5540'00		morning set	16571 Jun 22 09:25	6° © 43'59	
greatest brilliancy	16570 Jul 01 19:24	10°9540'02	-0.7m		16571 Jul 07 04:18	$0^{\circ}\Omega$	
morning set	16570 Jul 12 06:56	26°5641'03					
	16570 Jul 14 10:28	$0^{\circ}\Omega$		superior conj	16571 Jul 07 22:24	1° Ω 10′34	-2°11'14
max. Earth dist.	16570 Jul 25 23:51	17° Ω 57'10	1.45693 AU	minimum elong	16571 Jul 07 18:08	0° Ω 53'59	2°11'39
				max. Earth dist.	16571 Jul 08 19:57	2° Ω 34'33	1.46036 AU
superior conj	16570 Jul 28 13:02	21° Ω 56′57	-2°12'26	evening rise	16571 Jul 23 22:37	26° Ω 07'34	
minimum elong	16570 Jul 28 16:32	22° Ω 10'45	2°12'46		16571 Jul 26 10:08	0° ™	
	16570 Aug 02 15:16	0° ™		greatest brilliancy	16571 Aug 02 17:00	11° m 18'00	-0.8m
evening rise	16570 Aug 12 11:27	15° m 50'02		asc. node	16571 Aug 08 07:10	19° m 35'49	
asc. node	16570 Aug 21 10:25	0° ჲ 17'50		evening max el	16571 Aug 15 09:09	28° m 24'07	18°54'17
	16570 Aug 21 05:53	0∘ ⊽			16571 Aug 17 04:12	0∘ ⊽	
evening max el	16570 Aug 31 21:35		18°19'56	retrograde	16571 Aug 22 02:32	2° ≏ 04'20	
retrograde	16570 Sep 07 07:00	17° ≏ 59'06		evening set	16571 Aug 25 11:47	0° £ 58'19	
evening set	16570 Sep 10 06:44	17° ≏ 09'42			16571 Aug 26 18:30	30°R, Mp	
inferior conj	16570 Sep 16 04:02	11° ≏ 38'53	1°54'59	inferior conj	16571 Aug 31 00:46	-•	2°32'35
minimum elong	16570 Sep 16 06:19	11° ≏ 32'10	1°54'22	minimum elong	16571 Aug 31 02:51	25° m 07'05	2°32'00
min. Earth dist.	16570 Sep 18 10:19	9° ≏ 00'21	0.64750 AU	min. Earth dist.	16571 Sep 01 17:20	23° m 05'15	0.66517 AU
morning rise	16570 Sep 22 04:23	5° ≏ 17'13		morning rise	16571 Sep 05 17:00	18° m/46'43	
desc. node	16570 Sep 22 22:18	4° £ 43'14		desc. node	16571 Sep 09 19:38	16° Mp 27'00	
direct	16570 Sep 28 16:28	2° ₽ 41'59	27020154	direct	16571 Sep 11 21:13	16° Mp 10'21	26010110
morning max el	16570 Oct 12 06:57	10° £ 37'06	27°20'54	morning max el	16571 Sep 24 18:36	23° Mp 49′26 0° <u>₽</u>	26°19'19
	16570 Oct 27 15:25	0° ™ 0° <i>≯</i> 7			16571 Sep 30 07:32 16571 Oct 21 00:18	0° M	
marning sat	16570 Nov 14 10:56	0 x . 4° x 14'35		marning sat		17° M L01'03	
morning set asc. node	16570 Nov 16 15:39 16570 Nov 17 11:12	5° ₹ 50'58		morning set max. Earth dist.	16571 Oct 30 15:58 16571 Nov 03 11:29	24°M18'38	1.34719 AU
max. Earth dist.	16570 Nov 21 02:28	13° x 13'10	1.32958 AU	asc. node	16571 Nov 04 08:05	25°M59'47	1.34/19 AU
max. Earth dist.	103/0 100/ 21 02.28	13 🗡 13 10	1.32938 AU	asc. Houc	16571 Nov 06 08:13	23 116 3947 0° √	
superior conj	16570 Nov 24 20:45	21° ₹ ′08'55	1°03'17		103/11107 00 00.13	V /	
	103701101 21 20.13						
minimum elong	16570 Nov 24 18:22	20° × 756'08	1°03'30	superior coni	16571 Nov 08 18:25	4° x 756'53	0°39'20
minimum elong	16570 Nov 24 18:22 16570 Nov 28 23:07	20° <i>オ</i> 56'08 0°る	1°03'30	superior conj minimum elong	16571 Nov 08 18:25 16571 Nov 08 16:27	4° х 56'53 4° х 46'42	0°39'20 0°39'30
C			1°03'30	superior conj minimum elong evening rise		4° ∡ 746'42	
minimum elong evening rise	16570 Nov 28 23:07	8°0	1°03'30	minimum elong	16571 Nov 08 16:27		
C	16570 Nov 28 23:07 16570 Dec 01 21:05	0°ਰ 6°ਰ17'12	1°03'30	minimum elong	16571 Nov 08 16:27 16571 Nov 16 06:01	4° х 46′42 20° х 37′17	0°39'30
evening rise	16570 Nov 28 23:07 16570 Dec 01 21:05 16570 Dec 14 07:36	0°る 6°る17'12 0°≈		minimum elong evening rise	16571 Nov 08 16:27 16571 Nov 16 06:01 16571 Nov 20 20:21	4°፟፟፟፟፟፟46'42 20°፟፟፟፟፟737'17 0°る	0°39'30
evening rise desc. node	16570 Nov 28 23:07 16570 Dec 01 21:05 16570 Dec 14 07:36 16570 Dec 19 20:39	0°号 6°号17'12 0°≈ 7°≈48'28		minimum elong evening rise evening max el	16571 Nov 08 16:27 16571 Nov 16 06:01 16571 Nov 20 20:21 16571 Dec 05 07:54	4° メ 46'42 20° メ 37'17 0°る 22°る08'36	0°39'30
evening rise desc. node evening max el	16570 Nov 28 23:07 16570 Dec 01 21:05 16570 Dec 14 07:36 16570 Dec 19 20:39 16570 Dec 23 14:24	0°පි 6°පි17'12 0°≈ 7°≈48'28 11°≈55'31		minimum elong evening rise evening max el desc. node	16571 Nov 08 16:27 16571 Nov 16 06:01 16571 Nov 20 20:21 16571 Dec 05 07:54 16571 Dec 06 17:39	4°ダ46'42 20°ダ37'17 0°ぢ 22°ぢ08'36 23°ぢ27'05	0°39'30
evening rise desc. node evening max el retrograde	16570 Nov 28 23:07 16570 Dec 01 21:05 16570 Dec 14 07:36 16570 Dec 19 20:39 16570 Dec 23 14:24 16571 Jan 05 10:14	0° ිට 6° ට 17'12 0° ≈ 7° ≈ 48'28 11° ≈ 55'31 18° ≈ 15'55 17° ≈ 44'46		minimum elong evening rise evening max el desc. node retrograde	16571 Nov 08 16:27 16571 Nov 16 06:01 16571 Nov 20 20:21 16571 Dec 05 07:54 16571 Dec 06 17:39 16571 Dec 16 19:51	4° 🗗 46'42 20° 🗗 37'17 0° ರ 22° ರ08'36 23° ರ27'05 27° ರ50'13	0°39'30 20°54'09
evening rise desc. node evening max el retrograde evening set	16570 Nov 28 23:07 16570 Dec 01 21:05 16570 Dec 14 07:36 16570 Dec 19 20:39 16570 Dec 23 14:24 16571 Jan 05 10:14 16571 Jan 09 04:41	0°రె 6°రె17'12 0°జ 7°జ48'28 11°జ55'31 18°జ15'55 17°జ44'46 14°జ13'49 13°జ52'15	22°29'20 0.54510 AU -6°01'53	minimum elong evening rise evening max el desc. node retrograde evening set	16571 Nov 08 16:27 16571 Nov 16 06:01 16571 Nov 20 20:21 16571 Dec 05 07:54 16571 Dec 06 17:39 16571 Dec 16 19:51 16571 Dec 19 10:26	4° ₹46′42 20° ₹37′17 0° ₹ 22° ₹08′36 23° ₹27′05 27° ₹50′13 27° ₹33′57 23° ₹42′46 23° ₹53′33	0°39'30 20°54'09 -5°39'25
evening rise desc. node evening max el retrograde evening set min. Earth dist.	16570 Nov 28 23:07 16570 Dec 01 21:05 16570 Dec 14 07:36 16570 Dec 19 20:39 16570 Dec 23 14:24 16571 Jan 05 10:14 16571 Jan 09 04:41 16571 Jan 16 22:30	0°రె 6°రె17'12 0°జ 7°జ48'28 11°జ55'31 18°జ15'55 17°జ44'46 14°జ13'49 13°జ52'15	22°29'20 0.54510 AU	minimum elong evening rise evening max el desc. node retrograde evening set inferior conj	16571 Nov 08 16:27 16571 Nov 16 06:01 16571 Nov 20 20:21 16571 Dec 05 07:54 16571 Dec 06 17:39 16571 Dec 16 19:51 16571 Dec 19 10:26 16571 Dec 28 04:30	4° ₹46′42 20° ₹37′17 0° ₹ 22° ₹08′36 23° ₹27′05 27° ₹50′13 27° ₹33′57 23° ₹42′46	0°39'30 20°54'09 -5°39'25
evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	16570 Nov 28 23:07 16570 Dec 01 21:05 16570 Dec 14 07:36 16570 Dec 19 20:39 16570 Dec 23 14:24 16571 Jan 05 10:14 16571 Jan 09 04:41 16571 Jan 16 22:30 16571 Jan 17 13:50 16571 Jan 17 15:04 16571 Jan 26 02:31	0°♂ 6°♂17'12 0°≈ 7°≈48'28 11°≈55'31 18°≈15'55 17°≈44'46 14°≈13'49 13°≈52'15 13°≈50'31 10°≈04'22	22°29'20 0.54510 AU -6°01'53	minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong	16571 Nov 08 16:27 16571 Nov 16 06:01 16571 Nov 20 20:21 16571 Dec 05 07:54 16571 Dec 06 17:39 16571 Dec 16 19:51 16571 Dec 19 10:26 16571 Dec 28 04:30 16571 Dec 27 20:57 16571 Dec 29 03:52 16572 Jan 05 07:26	4° 🛪 46'42 20° 🛪 37'17 0° 号 22° 号08'36 23° 号27'05 27° 号50'13 27° 号33'57 23° 号42'46 23° 号53'33 23° 号09'22 19° 号49'02	0°39'30 20°54'09 -5°39'25 5°37'39
evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	16570 Nov 28 23:07 16570 Dec 01 21:05 16570 Dec 14 07:36 16570 Dec 19 20:39 16570 Dec 23 14:24 16571 Jan 05 10:14 16571 Jan 09 04:41 16571 Jan 16 22:30 16571 Jan 17 13:50 16571 Jan 17 15:04 16571 Jan 26 02:31 16571 Jan 29 06:18	0°♂ 6°♂17'12 0°≈ 7°≈48'28 11°≈55'31 18°≈15'55 17°≈44'46 14°≈13'49 13°≈52'15 13°≈50'31 10°≈04'22 9°≈41'50	22°29'20 0.54510 AU -6°01'53 6°01'22	minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	16571 Nov 08 16:27 16571 Nov 16 06:01 16571 Nov 20 20:21 16571 Dec 05 07:54 16571 Dec 06 17:39 16571 Dec 16 19:51 16571 Dec 19 10:26 16571 Dec 28 04:30 16571 Dec 27 20:57 16571 Dec 29 03:52 16572 Jan 05 07:26 16572 Jan 09 13:47	4° 🗷 46'42 20° 🗷 37'17 0° 云 22° 云 08'36 23° 云 27'05 27° 云 50'13 27° 云 33'57 23° 云 42'46 23° 云 53'33 23° 云 09'22 19° 云 49'02 19° 云 09'49	0°39'30 20°54'09 -5°39'25 5°37'39 0.54449 AU
evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	16570 Nov 28 23:07 16570 Dec 01 21:05 16570 Dec 14 07:36 16570 Dec 19 20:39 16570 Dec 23 14:24 16571 Jan 05 10:14 16571 Jan 09 04:41 16571 Jan 16 22:30 16571 Jan 17 13:50 16571 Jan 17 15:04 16571 Jan 26 02:31 16571 Jan 29 06:18 16571 Feb 10 05:26	0°♂ 6°♂17'12 0°≈ 7°≈48'28 11°≈55'31 18°≈15'55 17°≈44'46 14°≈13'49 13°≈52'15 13°≈50'31 10°≈04'22 9°≈41'50 15°≈29'02	22°29'20 0.54510 AU -6°01'53 6°01'22	minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	16571 Nov 08 16:27 16571 Nov 16 06:01 16571 Nov 20 20:21 16571 Dec 05 07:54 16571 Dec 06 17:39 16571 Dec 16 19:51 16571 Dec 19 10:26 16571 Dec 28 04:30 16571 Dec 27 20:57 16571 Dec 29 03:52 16572 Jan 05 07:26 16572 Jan 09 13:47 16572 Jan 22 18:30	4° ₹46'42 20° ₹37'17 0° ₹ 22° ₹08'36 23° ₹27'05 27° ₹50'13 27° ₹33'57 23° ₹42'46 23° ₹53'33 23° ₹09'22 19° ₹49'02 19° ₹09'49 25° ₹37'12	0°39'30 20°54'09 -5°39'25 5°37'39 0.54449 AU
evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	16570 Nov 28 23:07 16570 Dec 01 21:05 16570 Dec 14 07:36 16570 Dec 19 20:39 16570 Dec 23 14:24 16571 Jan 05 10:14 16571 Jan 16 22:30 16571 Jan 17 13:50 16571 Jan 17 15:04 16571 Jan 26 02:31 16571 Jan 29 06:18 16571 Feb 10 05:26 16571 Feb 13 09:49	0°♂ 6°♂ 17'12 0°≈ 7°≈48'28 11°≈55'31 18°≈15'55 17°≈44'46 14°≈13'49 13°≈52'15 13°≈50'31 10°≈04'22 9°≈41'50 15°≈29'02 18°≈55'42	22°29'20 0.54510 AU -6°01'53 6°01'22	minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	16571 Nov 08 16:27 16571 Nov 16 06:01 16571 Nov 20 20:21 16571 Dec 05 07:54 16571 Dec 06 17:39 16571 Dec 16 19:51 16571 Dec 19 10:26 16571 Dec 28 04:30 16571 Dec 29 03:52 16572 Jan 05 07:26 16572 Jan 09 13:47 16572 Jan 22 18:30 16572 Jan 26 19:38	4° ₹46'42 20° ₹37'17 0° ♂ 22° ♂08'36 23° ♂27'05 27° ♂50'13 27° ♂33'57 23° ♂42'46 23° ♂53'33 23° ♂09'22 19° ♂49'02 19° ♂09'49 25° ♂37'12 0° ≫	0°39'30 20°54'09 -5°39'25 5°37'39 0.54449 AU
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evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	16570 Nov 28 23:07 16570 Dec 01 21:05 16570 Dec 14 07:36 16570 Dec 19 20:39 16570 Dec 23 14:24 16571 Jan 05 10:14 16571 Jan 16 22:30 16571 Jan 17 13:50 16571 Jan 17 15:04 16571 Jan 26 02:31 16571 Jan 29 06:18 16571 Feb 10 05:26 16571 Feb 13 09:49 16571 Feb 20 23:00	0°♂ 6°♂ 17'12 0°≈ 7°≈48'28 11°≈55'31 18°≈15'55 17°≈44'46 14°≈13'49 13°≈52'15 13°≈50'31 10°≈04'22 9°≈41'50 15°≈29'02 18°≈55'42 0° ★	22°29'20 0.54510 AU -6°01'53 6°01'22	minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	16571 Nov 08 16:27 16571 Nov 16 06:01 16571 Nov 20 20:21 16571 Dec 05 07:54 16571 Dec 06 17:39 16571 Dec 16 19:51 16571 Dec 19 10:26 16571 Dec 28 04:30 16571 Dec 29 03:52 16572 Jan 05 07:26 16572 Jan 09 13:47 16572 Jan 22 18:30 16572 Jan 26 19:38 16572 Jan 31 07:05	4° ₹46'42 20° ₹37'17 0° ♂ 22° ♂08'36 23° ♂27'05 27° ♂50'13 27° ♂33'57 23° ♂42'46 23° ♂53'33 23° ♂09'22 19° ♂49'02 19° ♂09'49 25° ♂37'12 0° ≈ 6° ≈01'05	0°39'30 20°54'09 -5°39'25 5°37'39 0.54449 AU
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	16570 Nov 28 23:07 16570 Dec 01 21:05 16570 Dec 14 07:36 16570 Dec 19 20:39 16570 Dec 23 14:24 16571 Jan 05 10:14 16571 Jan 16 22:30 16571 Jan 17 13:50 16571 Jan 17 13:50 16571 Jan 26 02:31 16571 Jan 29 06:18 16571 Feb 10 05:26 16571 Feb 13 09:49 16571 Feb 20 23:00 16571 Mar 02 07:06 16571 Mar 07 22:37	0°♂ 6°♂17'12 0°≈ 7°≈48'28 11°≈55'31 18°≈15'55 17°≈44'46 14°≈13'49 13°≈52'15 13°≈50'31 10°≈04'22 9°≈41'50 15°≈29'02 18°≈55'42 0°ℋ 18°ℋ06'03 0°℉	22°29'20 0.54510 AU -6°01'53 6°01'22 21°24'06	minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	16571 Nov 08 16:27 16571 Nov 16 06:01 16571 Nov 20 20:21 16571 Dec 05 07:54 16571 Dec 06 17:39 16571 Dec 16 19:51 16571 Dec 19 10:26 16571 Dec 28 04:30 16571 Dec 27 20:57 16571 Dec 29 03:52 16572 Jan 05 07:26 16572 Jan 09 13:47 16572 Jan 22 18:30 16572 Jan 26 19:38 16572 Jan 31 07:05 16572 Feb 13 10:41 16572 Feb 14 18:40	4° 承46'42 20° ₹37'17 0° ♂ 22° ♂08'36 23° ♂27'05 27° ♂50'13 27° ♂33'57 23° ♂42'46 23° ♂53'33 23° ♂09'22 19° ♂49'02 19° ♂09'49 25° ♂37'12 0° ≈ 6° ≈01'05 0° ℋ 2° 升49'26	0°39'30 20°54'09 -5°39'25 5°37'39 0.54449 AU 23°09'30
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	16570 Nov 28 23:07 16570 Dec 01 21:05 16570 Dec 14 07:36 16570 Dec 19 20:39 16570 Dec 23 14:24 16571 Jan 05 10:14 16571 Jan 16 22:30 16571 Jan 17 13:50 16571 Jan 17 13:50 16571 Jan 26 02:31 16571 Jan 29 06:18 16571 Feb 10 05:26 16571 Feb 10 05:26 16571 Feb 20 23:00 16571 Mar 02 07:06 16571 Mar 07 22:37	0°♂ 6°♂17'12 0°≈ 7°≈48'28 11°≈55'31 18°≈15'55 17°≈44'46 14°≈13'49 13°≈52'15 13°≈50'31 10°≈04'22 9°≈41'50 15°≈29'02 18°≈55'42 0°ℋ 18°升06'03 0°℉	22°29'20 0.54510 AU -6°01'53 6°01'22 21°24'06	minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	16571 Nov 08 16:27 16571 Nov 16 06:01 16571 Nov 20 20:21 16571 Dec 05 07:54 16571 Dec 06 17:39 16571 Dec 16 19:51 16571 Dec 19 10:26 16571 Dec 28 04:30 16571 Dec 27 20:57 16571 Dec 29 03:52 16572 Jan 05 07:26 16572 Jan 09 13:47 16572 Jan 22 18:30 16572 Jan 31 07:05 16572 Feb 13 10:41 16572 Feb 14 18:40	4° 承46'42 20° ₹37'17 0° ♂ 22° ♂08'36 23° ♂27'05 27° ♂50'13 27° ♂33'57 23° ♂42'46 23° ♂53'33 23° ♂09'22 19° ♂49'02 19° ♂09'49 25° ♂37'12 0° ≈ 6° ≈01'05 0° 升 2° 升49'26	0°39'30 20°54'09 -5°39'25 5°37'39 0.54449 AU 23°09'30
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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	16570 Nov 28 23:07 16570 Dec 01 21:05 16570 Dec 14 07:36 16570 Dec 19 20:39 16570 Dec 23 14:24 16571 Jan 05 10:14 16571 Jan 16 22:30 16571 Jan 17 13:50 16571 Jan 17 15:04 16571 Jan 26 02:31 16571 Jan 29 06:18 16571 Feb 10 05:26 16571 Feb 13 09:49 16571 Feb 20 23:00 16571 Mar 02 07:06 16571 Mar 07 22:37 16571 Mar 09 13:23 16571 Mar 09 15:53 16571 Mar 14 04:39	0°♂6 6°♂17'12 0°≈ 7°≈48'28 11°≈55'31 18°≈15'55 17°≈44'46 14°≈13'49 13°≈52'15 13°≈50'31 10°≈04'22 9°≈41'50 15°≈29'02 18°≈55'42 0°ℋ 18°₩06'03 0°Ψ 3°Ψ22'23 3°Ψ35'22 12°Ψ47'56	22°29'20 0.54510 AU -6°01'53 6°01'22 21°24'06	minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	16571 Nov 08 16:27 16571 Nov 16 06:01 16571 Nov 20 20:21 16571 Dec 05 07:54 16571 Dec 06 17:39 16571 Dec 16 19:51 16571 Dec 28 04:30 16571 Dec 27 20:57 16571 Dec 29 03:52 16572 Jan 05 07:26 16572 Jan 09 13:47 16572 Jan 22 18:30 16572 Jan 26 19:38 16572 Jan 31 07:05 16572 Feb 13 10:41 16572 Feb 14 18:40 16572 Feb 21 16:26 16572 Feb 21 18:31 16572 Feb 24 21:50	4° 🛪 46′42 20° 🛪 37′17 0° 云 22° 云 08′36 23° 云 27′05 27° 云 55′13 27° 云 33′57 23° 云 42′46 23° 云 53′33 23° 云 09′22 19° 云 49′02 19° 云 09′49 25° 云 37′12 0° ≈ 6° ≈ 01′05 0° 光 2° 升 49′26 17° 升 45′16 17° 升 56′24 24° 升 36′15	0°39'30 20°54'09 -5°39'25 5°37'39 0.54449 AU 23°09'30
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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. desc. node evening rise	16570 Nov 28 23:07 16570 Dec 01 21:05 16570 Dec 14 07:36 16570 Dec 19 20:39 16570 Dec 23 14:24 16571 Jan 05 10:14 16571 Jan 16 22:30 16571 Jan 17 13:50 16571 Jan 26 02:31 16571 Jan 26 02:31 16571 Jan 26 02:31 16571 Jan 29 06:18 16571 Feb 10 05:26 16571 Feb 10 05:26 16571 Feb 20 23:00 16571 Mar 02 07:06 16571 Mar 07 22:37 16571 Mar 09 13:23 16571 Mar 09 15:53 16571 Mar 14 04:39 16571 Mar 18 06:24 16571 Mar 18 06:24 16571 Mar 23 09:04 16571 Mar 120:01 16571 Apr 11 20:01 16571 Apr 12 12:12	0°♂ 6°♂17'12 0°≈ 7°≈48'28 11°≈55'31 18°≈15'55 17°≈44'46 14°≈13'49 13°≈52'15 13°≈50'31 10°≈04'22 9°≈41'50 15°≈29'02 18°≈55'42 0°升 18° 升06'03 0°Υ 3°Υ22'23 3°Υ35'22 12°Υ47'56 19°Υ58'07 20°Υ40'54 0°♂ 11 12°∏25'59 19°∏52'24	22°29'20 0.54510 AU -6°01'53 6°01'22 21°24'06 1°07'03 1°06'44 1.34988 AU	minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	16571 Nov 08 16:27 16571 Nov 16 06:01 16571 Nov 20 20:21 16571 Dec 05 07:54 16571 Dec 06 17:39 16571 Dec 16 19:51 16571 Dec 19 10:26 16571 Dec 28 04:30 16571 Dec 27 20:57 16571 Dec 29 03:52 16572 Jan 05 07:26 16572 Jan 09 13:47 16572 Jan 22 18:30 16572 Jan 26 19:38 16572 Jan 31 07:05 16572 Feb 13 10:41 16572 Feb 21 16:26 16572 Feb 21 18:31 16572 Feb 21 18:31 16572 Feb 24 21:50 16572 Feb 27 12:37 16572 Feb 29 14:26 16572 Mar 15 03:46 16572 Mar 15 03:46 16572 Apr 04 01:41 16572 Apr 08 19:27 16572 Apr 08 19:27	4° 🛪 46'42 20° 🛪 37'17 0° 云 22° 云 08'36 23° 云 27'05 27° 云 50'13 27° 云 33'57 23° 云 42'46 23° 云 53'33 23° 云 09'22 19° 云 49'02 19° 云 09'49 25° 云 37'12 0° ※ 6° ※ 01'05 0° 光 2° 光 49'26 17° 光 45'16 17° 光 56'24 24° 光 36'15 0° Ƴ 4° Ƴ 09'30 10° Ƴ 14'46 0° ♉ 25° ♉ 57'36 0° Ⅱ	0°39'30 20°54'09 -5°39'25 5°37'39 0.54449 AU 23°09'30 1°23'37 1°23'35 1.33244 AU
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. desc. node evening rise	16570 Nov 28 23:07 16570 Dec 01 21:05 16570 Dec 14 07:36 16570 Dec 19 20:39 16570 Dec 23 14:24 16571 Jan 05 10:14 16571 Jan 16 22:30 16571 Jan 17 13:50 16571 Jan 26 02:31 16571 Jan 26 02:31 16571 Jan 29 06:18 16571 Feb 10 05:26 16571 Feb 13 09:49 16571 Feb 20 23:00 16571 Mar 02 07:06 16571 Mar 07 22:37 16571 Mar 09 13:23 16571 Mar 09 13:23 16571 Mar 14 04:39 16571 Mar 17 21:21 16571 Mar 18 06:24 16571 Apr 11 20:01 16571 Apr 12 12:12 16571 Mar 05 14:17 16571 May 05 14:17	0°ጜ 6°ጜ17'12 0°≈ 7°≈48'28 11°≈55'31 18°≈15'55 17°≈44'46 14°≈13'49 13°≈52'15 13°≈50'31 10°≈04'22 9°≈41'50 15°≈29'02 18°≈55'42 0°ዧ 3°Ƴ22'23 3°Ƴ35'22 12°Ƴ47'56 19°Ƴ58'07 20°Ƴ40'54 0°Ⅱ 12°Ⅲ25'59 19°Ⅲ52'24 17°Ⅲ19'26	22°29'20 0.54510 AU -6°01'53 6°01'22 21°24'06 1°07'03 1°06'44 1.34988 AU	minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	16571 Nov 08 16:27 16571 Nov 16 06:01 16571 Nov 20 20:21 16571 Dec 05 07:54 16571 Dec 06 17:39 16571 Dec 16 19:51 16571 Dec 19 10:26 16571 Dec 28 04:30 16571 Dec 29 03:52 16572 Jan 05 07:26 16572 Jan 05 07:26 16572 Jan 22 18:30 16572 Jan 26 19:38 16572 Jan 31 07:05 16572 Feb 13 10:41 16572 Feb 21 16:26 16572 Feb 21 18:31 16572 Feb 21 18:31 16572 Feb 24 21:50 16572 Feb 27 12:37 16572 Feb 29 14:26 16572 Mar 03 18:05 16572 Mar 15 03:46 16572 Apr 04 01:41 16572 Apr 08 19:27	4° 🛪 46'42 20° 🛪 37'17 0° 云 22° 云 08'36 23° 云 27'05 27° 云 50'13 27° 云 33'57 23° 云 42'46 23° 云 53'33 23° 云 09'22 19° 云 49'02 19° 云 09'49 25° 云 37'12 0° ※ 6° ※ 01'05 0° 光 2° 光 49'26 17° 光 45'16 17° 光 56'24 24° 光 36'15 0° Ƴ 4° Ƴ 09'30 10° Ƴ 14'46 0° ♉ 25° ♉ 57'36 0° Ⅱ 3° Ⅲ 31'08	0°39'30 20°54'09 -5°39'25 5°37'39 0.54449 AU 23°09'30 1°23'37 1°23'35 1.33244 AU
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. desc. node evening rise evening max el retrograde evening set asc. node	16570 Nov 28 23:07 16570 Dec 01 21:05 16570 Dec 14 07:36 16570 Dec 19 20:39 16570 Dec 23 14:24 16571 Jan 05 10:14 16571 Jan 16 22:30 16571 Jan 17 13:50 16571 Jan 26 02:31 16571 Jan 26 02:31 16571 Jan 29 06:18 16571 Feb 10 05:26 16571 Feb 10 05:26 16571 Feb 20 23:00 16571 Mar 02 07:06 16571 Mar 07 22:37 16571 Mar 09 13:23 16571 Mar 09 13:23 16571 Mar 14 04:39 16571 Mar 17 21:21 16571 Mar 18 06:24 16571 Apr 12 20:01 16571 Apr 22 12:12 16571 Mar 05 14:17 16571 May 05 14:17 16571 May 11 23:07 16571 May 11 23:07	0°♂ 6°♂17'12 0°≈ 7°≈48'28 11°≈55'31 18°≈15'55 17°≈44'46 14°≈13'49 13°≈52'15 13°≈50'31 10°≈04'22 9°≈41'50 15°≈29'02 18°≈55'42 0°ℋ 18°升06'03 0°Ƴ 3°Ƴ22'23 3°Ƴ35'22 12°Ƴ47'56 19°Ƴ58'07 20°Ƴ40'54 0°♂ 0°Ⅱ 12°Ⅲ25'59 19°Ⅲ52'24 17°Ⅲ19'26 17°Ⅲ02'03	22°29'20 0.54510 AU -6°01'53 6°01'22 21°24'06 1°07'03 1°06'44 1.34988 AU 26°34'13	minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	16571 Nov 08 16:27 16571 Nov 16 06:01 16571 Nov 20 20:21 16571 Dec 05 07:54 16571 Dec 06 17:39 16571 Dec 16 19:51 16571 Dec 19 10:26 16571 Dec 28 04:30 16571 Dec 27 20:57 16571 Dec 29 03:52 16572 Jan 05 07:26 16572 Jan 09 13:47 16572 Jan 22 18:30 16572 Jan 22 18:30 16572 Jan 31 07:05 16572 Feb 13 10:41 16572 Feb 21 16:26 16572 Feb 21 18:31 16572 Feb 21 18:31 16572 Feb 24 21:50 16572 Feb 27 12:37 16572 Feb 29 14:26 16572 Mar 03 18:05 16572 Mar 15 03:46 16572 Apr 04 01:41 16572 Apr 08 19:27 16572 Apr 17 16:37 16572 Apr 17 16:37	4° ¾46'42 20° ¾37'17 0° ጜ 22° ጜ08'36 23° ጜ27'05 27° ጜ50'13 27° ጜ33'57 23° ጜ42'46 23° ጜ53'33 23° ጜ09'22 19° ጜ49'02 19° ጜ09'49 25° ጜ37'12 0° ፠ 6° ‰01'05 0° ዧ 2° ዧ49'26 17° ዧ45'16 17° ዧ56'24 24° ዧ36'15 0° ዧ 4° ϒ09'30 10° ϒ14'46 0° ሤ 25° ጜ57'36 0° Ⅱ 3° Ⅲ31'08 1° Ⅲ01'29 30° ጜፘ	0°39'30 20°54'09 -5°39'25 5°37'39 0.54449 AU 23°09'30 1°23'37 1°23'35 1.33244 AU
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. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist.	16570 Nov 28 23:07 16570 Dec 01 21:05 16570 Dec 14 07:36 16570 Dec 19 20:39 16570 Dec 23 14:24 16571 Jan 05 10:14 16571 Jan 07 04:41 16571 Jan 16 22:30 16571 Jan 17 13:50 16571 Jan 17 13:50 16571 Jan 26 02:31 16571 Jan 29 06:18 16571 Feb 10 05:26 16571 Feb 10 05:26 16571 Feb 20 23:00 16571 Mar 02 07:06 16571 Mar 07 22:37 16571 Mar 09 13:23 16571 Mar 09 13:23 16571 Mar 14 04:39 16571 Mar 17 21:21 16571 Mar 18 06:24 16571 Apr 11 20:01 16571 Apr 22 12:12 16571 Mar 05 14:17 16571 May 11 23:07 16571 May 11 23:07 16571 May 12 07:28 16571 May 15 23:36	0°♂ 6°♂17'12 0°≈ 7°≈48'28 11°≈55'31 18°≈15'55 17°≈44'46 14°≈13'49 13°≈52'15 13°≈50'31 10°≈04'22 9°≈41'50 15°≈29'02 18°≈55'42 0°ℋ 3°Y22'23 3°Y35'22 12°Y47'56 19°Y58'07 20°Y40'54 0°℧ 0°Ⅱ 12°Ⅱ25'59 19°Ⅱ52'24 17°Ⅲ19'26 17°Ⅲ02'03 13°Ⅲ13'15 10°Ⅲ51'50	22°29'20 0.54510 AU -6°01'53 6°01'22 21°24'06 1°07'03 1°06'44 1.34988 AU 26°34'13	minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	16571 Nov 08 16:27 16571 Nov 16 06:01 16571 Nov 20 20:21 16571 Dec 05 07:54 16571 Dec 06 17:39 16571 Dec 16 19:51 16571 Dec 19 10:26 16571 Dec 28 04:30 16571 Dec 27 20:57 16571 Dec 29 03:52 16572 Jan 05 07:26 16572 Jan 09 13:47 16572 Jan 22 18:30 16572 Jan 26 19:38 16572 Jan 31 07:05 16572 Feb 13 10:41 16572 Feb 21 16:26 16572 Feb 21 18:31 16572 Feb 21 18:31 16572 Feb 21 18:31 16572 Feb 24 21:50 16572 Feb 27 12:37 16572 Feb 29 14:26 16572 Mar 03 18:05 16572 Apr 04 01:41 16572 Apr 08 19:27 16572 Apr 08 19:27 16572 Apr 24 08:27 16572 Apr 24 08:27 16572 Apr 24 08:27	4° ¾46'42 20° ¾37'17 0° ጜ 22° ጜ08'36 23° ጜ27'05 27° ጜ50'13 27° ጜ33'57 23° ጜ42'46 23° ጜ53'33 23° ጜ09'22 19° ጜ49'02 19° ጜ09'49 25° ጜ37'12 0° ፠ 6° ‰01'05 0° ዧ 2° ዧ49'26 17° ዧ45'16 17° ዧ56'24 24° ዧ36'15 0° ዧ 4° ϒ09'30 10° ϒ14'46 0° ሤ 25° ጜ57'36 0° Ⅱ 3° Ⅲ31'08 1° Ⅲ01'29 30° ጜፘ	0°39'30 20°54'09 -5°39'25 5°37'39 0.54449 AU 23°09'30 1°23'37 1°23'35 1.33244 AU 27°19'05

	16550 1 20 1611	212111111111111111111111111111111111111	0045106		16552 1 05 06 25		
inferior conj	16572 Apr 30 16:11	24° 8 43'44	0°45'36	evening set	16573 Apr 07 06:35	14° 8 12'49	
minimum elong	16572 Apr 30 14:58	24° 8 47'05	0°44'41	min. Earth dist.	16573 Apr 11 00:51	11° 8 05'57	0.62848 AU
morning rise	16572 May 06 23:27	19° 8 17'27		inferior conj	16573 Apr 13 23:06	8° 8 13'19	
direct	16572 May 09 16:10	18° 8 39'20		minimum elong	16573 Apr 13 23:48	8° 8 11'35	0°21'17
morning max el	16572 May 15 23:22	21° 8 54'10	17°54'37	asc. node	16573 Apr 15 01:54	7° 8 08'04	
	16572 May 22 09:20	Π°		morning rise	16573 Apr 20 19:50	3° 8 02'53	
desc. node	16572 May 30 18:42	13° Ⅱ 22'14		direct	16573 Apr 23 04:25	2° 8 36'34	
morning set	16572 Jun 02 15:03	18° Ⅱ 04'48		morning max el	16573 Apr 29 17:00	5° 8 55'01	17°46'12
8	16572 Jun 09 21:12	0°9		morning set	16573 May 15 21:31	0° П 35'20	
	10372 3411 07 21.12	ů O		morning sec	16573 May 15 13:23	0°Ⅱ	
	16572 June 16 14:20	10064750	1051102	4 4-	,	3° Ⅱ 37'53	
superior conj	16572 Jun 16 14:29	10°947'50		desc. node	16573 May 17 15:38	3°Щ3/33	
minimum elong	16572 Jun 16 06:03	10° © 14'19				🗕	
max. Earth dist.	16572 Jun 20 16:00	17° © 12'38	1.45629 AU	superior conj	16573 May 28 01:54	21° Ⅱ 19'04	
	16572 Jun 28 21:37	$0 ^{\circ} \Omega$		minimum elong	16573 May 27 18:48	20° Ⅱ 49'43	1°17'51
evening rise	16572 Jul 02 14:11	5° Ω 39'53			16573 Jun 02 09:53	0 \circ \odot	
greatest brilliancy	16572 Jul 16 20:41	27° Ω 06′54	-0.6m	max. Earth dist.	16573 Jun 03 10:05	1° 9 36'54	1.44519 AU
	16572 Jul 18 20:50	0° m)		evening rise	16573 Jun 12 00:59	15° 5 06'52	
asc. node	16572 Jul 25 03:58	8° m 25'21		Ü	16573 Jun 21 21:59	$0^{\circ}\Omega$	
evening max el	16572 Jul 28 15:43	12° m) 18'56	19°44'45	evening max el	16573 Jul 11 16:12	26° Ω 14'21	20°49'25
retrograde	16572 Aug 05 00:54	16° Mp 27'08	17 11 13	asc. node	16573 Jul 12 00:50	26° Ω 35'33	20 17 23
-	16572 Aug 08 20:23	15° Mp 03'16		asc. Houc		0°m)	
evening set	· ·		2055140		16573 Jul 16 10:26		
inferior conj	16572 Aug 14 04:14	9° m 06'16	2°55'48	retrograde	16573 Jul 19 23:55	1°m,00'51	
minimum elong	16572 Aug 14 05:37	9° m ,01'36	2°55'20		16573 Jul 23 07:18	30°R Ω	
min. Earth dist.	16572 Aug 15 06:56	7° ™ 36'50	0.67875 AU	evening set	16573 Jul 24 06:19	29° Ω 18'55	
morning rise	16572 Aug 19 14:22	2° m 39'51		inferior conj	16573 Jul 29 11:53	23° Ω 10'43	3°06'41
direct	16572 Aug 25 08:18	0° Mp 10′04		minimum elong	16573 Jul 29 12:22	23° Ω 09'02	3°06'16
desc. node	16572 Aug 26 16:57	0° m 17′28		min. Earth dist.	16573 Jul 30 00:59	22° Ω 25′25	0.68767 AU
morning max el	16572 Sep 06 05:41	7° m) 16'59	24°59'37	morning rise	16573 Aug 03 18:09	16° Ω 48'39	
Č	16572 Sep 24 00:06	0∘ <u>⊽</u>		direct	16573 Aug 09 00:23	14° Ω 31'40	
morning set	16572 Oct 12 00:06	29° ₽ 04'41		desc. node	16573 Aug 13 14:14	15°Ω55'24	
morning set	16572 Oct 12 12:33	0°M		morning max el	16573 Aug 19 16:51	20° Ω 53'32	22021120
Earth diet			1.26016 ATT	morning max er	=		23 31 26
max. Earth dist.	16572 Oct 15 12:25	5°M25'25	1.36916 AU		16573 Aug 27 12:58	0° m)	
asc. node	16572 Oct 21 04:55	16°ML12'17			16573 Sep 17 05:10	0∘ 亚	
				morning set	16573 Sep 23 11:53	10° ≏ 15'53	
superior conj	16572 Oct 22 06:17	18°M16'28	0°09'29	max. Earth dist.	16573 Sep 27 11:21	17° ≏ 03'56	1.39330 AU
minimum elong	16572 Oct 22 05:40	18°M13'26	0°09'46		16573 Oct 04 15:57	0° M	
behind sun begin	16572 Oct 22 00:27	17° M 47'45					
behind sun end	16572 Oct 22 10:54	18°ML39'10		superior conj	16573 Oct 05 04:34	0°M58'41	-0°25'14
	16572 Oct 28 02:36	0° ∡ ¹		minimum elong	16573 Oct 05 06:25	1° M L07'19	0°24'39
evening rise	16572 Oct 30 11:06	4° ∡ 746'38		asc. node	16573 Oct 08 01:43	6°M24'39	
evening rise	16572 Nov 13 21:30	0°ਰ		evening rise	16573 Oct 14 09:36	18°M38'35	
avanina may al	16572 Nov 16 15:32	3°る07'04	19°38'14	evening rise		0° ∡ ¹	
evening max el		3 30704 7° 3 17'25	19 36 14		16573 Oct 20 09:14		10044142
desc. node	16572 Nov 22 14:42			evening max el	16573 Oct 30 12:51	14° ⋌ ′55'50	18°44'43
retrograde	16572 Nov 26 12:06	8° පි 02'41		retrograde	16573 Nov 07 21:49	19° ⋌ '09'58 –	
evening set	16572 Nov 28 12:10	7° る 51'25		desc. node	16573 Nov 09 11:47	19° ∡ '01'24	
inferior conj	16572 Dec 07 04:04	3° ⋜ 48′18	-4°23'24	evening set	16573 Nov 09 19:46	18° ∡ 57′29	
minimum elong	16572 Dec 06 18:12	4° る 03'51	4°19'49	inferior conj	16573 Nov 17 22:46	14° ∡ ³34'14	-2°42'27
min. Earth dist.	16572 Dec 09 11:23	2° る 21'07	0.55323 AU	minimum elong	16573 Nov 17 16:11	14° ∡ ¹46'17	2°39'20
	16572 Dec 13 18:23	30°₽ ⋌ ¹		min. Earth dist.	16573 Nov 21 00:07	12° ∡ ¹20′27	0.56953 AU
morning rise	16572 Dec 14 22:33	29° ∡ ³30'41		morning rise	16573 Nov 25 09:35	9° ∡ ′41′10	
direct	16572 Dec 20 05:29	28° ∡ ¹28'25		direct	16573 Dec 01 10:29	8° ∡ 12'48	
	16572 Dec 26 13:52	0°ਰ		morning max el	16573 Dec 15 15:01	15° ∡ ³34'16	26°33'13
morning max el	16573 Jan 03 02:35	5° る 26'13	24058150	morning max cr	16573 Dec 27 06:56	0° る	20 33 13
•			24 36 39	1			
asc. node	16573 Jan 17 04:18	24°る03'43		asc. node	16574 Jan 04 01:28	12° る 49'04	
	16573 Jan 20 13:37	0° ≈			16574 Jan 12 18:19	0° ≈	
morning set	16573 Jan 29 06:34	17° ≈ 29'33		morning set	16574 Jan 13 17:05	2° ≈ 01'45	
	16573 Feb 03 23:13	0° ℋ					
				superior conj	16574 Jan 20 10:59	16° ≈ 56'59	1°38'09
superior conj	16573 Feb 05 00:21	2°) 18'47	1°33'56	minimum elong	16574 Jan 20 11:11	16° ≈ 58′06	1°38'35
minimum elong	16573 Feb 05 01:35	2°) €25'34	1°34'12	max. Earth dist.	16574 Jan 21 04:36	18° ≈ 35'22	1.31193 AU
max. Earth dist.	16573 Feb 06 22:35	6°) 32′20	1.31965 AU		16574 Jan 26 09:22	0°) €	
evening rise	16573 Feb 12 08:25	18°) (01'11		evening rise	16574 Jan 27 09:42	2° ¥ 09'26	
	16573 Feb 18 11:07	0°Υ		desc. node	16574 Feb 05 11:32	19° ¥ 59'23	
desc. node		0° Υ 17'10		acoc. Houc	16574 Feb 11 08:34	19 γ (3923	
ucse. Hour	16573 Fab 10 11.10					V I	
	16573 Feb 18 14:48			avanir 1			27921150
	16573 Mar 09 13:07	0°8	2702752	evening max el	16574 Feb 27 20:50	21° Y ′23'34	27°21'50
evening max el	16573 Mar 09 13:07 16573 Mar 17 13:27	0° ප 9° ප 01'11	27°36'53	retrograde	16574 Feb 27 20:50 16574 Mar 13 21:30	21° Y 23'34 28° Y 45'39	27°21'50
evening max el retrograde	16573 Mar 09 13:07	0°8	27°36'53	-	16574 Feb 27 20:50	21° Y ′23'34	27°21'50

min Earth diat	16574 Mar 24 10:54	2200057114	0.60610 AU	ratra arada	16575 Eab 22 21:22	10° Ƴ 04'46	
min. Earth dist.				retrograde	16575 Feb 23 21:23	8° Y 26'48	
inferior conj	16574 Mar 27 15:50	21°Υ11'21		evening set	16575 Mar 02 05:30		0.50064.477
minimum elong	16574 Mar 27 19:36	21° Y ′03'09	1°40'44	min. Earth dist.	16575 Mar 06 10:35		0.58364 AU
asc. node	16574 Apr 01 23:08	17° Y 14'39		inferior conj	16575 Mar 09 14:32	3° Y 27'00	
morning rise	16574 Apr 04 03:58	16° Ƴ 19'50		minimum elong	16575 Mar 09 21:59	3° Y 13'02	3°10'14
direct	16574 Apr 06 06:10	16° Ƴ 01'52			16575 Mar 14 20:50	30° Ŗ ₩	
morning max el	16574 Apr 13 08:51	19° Ƴ 35'18	17°56'02	morning rise	16575 Mar 17 17:59	28° ¥ 56'55	
	16574 Apr 21 01:08	0°B		direct	16575 Mar 19 16:46	28°) 43'49	
morning set	16574 Apr 28 23:12	13° 8 58'41		asc. node	16575 Mar 19 20:24	28° ¥ 43'54	
desc. node	16574 May 04 12:30	24° 8 03'02			16575 Mar 24 06:24	0° Υ	
dese. Hode	16574 May 07 20:53	0°II		morning max el	16575 Mar 27 19:15	2°Υ'43'56	18°25'34
	10374 Way 07 20.33	υп		•		27° Υ ′58'20	10 23 34
	16574 M 00 12 46	201154112	0040126	morning set	16575 Apr 12 14:38		
superior conj	16574 May 09 12:46	2° ∏ 54'13			16575 Apr 13 16:06	0°8	
minimum elong	16574 May 09 09:14	2° Ⅲ 38'53	0°40'33	desc. node	16575 Apr 21 09:18	14° 8 33'17	
max. Earth dist.	16574 May 17 00:08	15° Ⅲ 32'17	1.42816 AU				
evening rise	16574 May 22 23:05	25° Ⅱ 08'25		superior conj	16575 Apr 21 20:53	15° 8 26'30	-0°04'05
	16574 May 26 01:38	0 \circ		minimum elong	16575 Apr 21 20:33	15° 8 25'00	0°04'25
	16574 Jun 15 20:05	$0^{\circ}\Omega$		behind sun begin	16575 Apr 21 13:34	14° 8 52'55	
evening max el	16574 Jun 24 10:59	10° Ω 08'51	22°04'51	behind sun end	16575 Apr 22 03:33	15° 8 57'01	
asc. node	16574 Jun 28 21:42	13° Ω 53'19		max. Earth dist.	16575 Apr 29 09:09	28° 8 46'25	1.40694 AU
retrograde	16574 Jul 03 21:58	15° Ω 39'58			16575 Apr 30 02:22	0°II	
evening set	16574 Jul 08 15:46	13° Ω 40'58		evening rise	16575 May 03 17:09	6° Ⅱ 03'48	
•		$7^{\circ}\Omega 22'57$	3°06'33	evening rise	•	0°©	
inferior conj	16574 Jul 13 21:36				16575 May 19 04:32		2202610.5
minimum elong	16574 Jul 13 21:08	7° Ω 24'34	3°06'02	evening max el	16575 Jun 07 01:55	24° © 03'32	23°26'05
min. Earth dist.	16574 Jul 13 21:25	7° Ω 23'35	0.69166 AU	asc. node	16575 Jun 15 18:38	0° Ω 02'32	
morning rise	16574 Jul 19 02:21	1° Ω 07'36			16575 Jun 15 15:01	0 \circ Ω	
	16574 Jul 20 16:24	30° ₹ 5		retrograde	16575 Jun 17 17:41	0° Ω 18'52	
direct	16574 Jul 23 20:23	29° © 07'31			16575 Jun 19 17:52	30° ₹ ∽	
	16574 Jul 27 06:28	$0^{\circ}\Omega$		evening set	16575 Jun 22 23:05	28°905'11	
desc. node	16574 Jul 31 11:30	2° Ω 57'13		inferior conj	16575 Jun 28 07:29	21° © 39'27	2°55'58
morning max el	16574 Aug 02 06:19	4° Ω 38'24	22°03'37	minimum elong	16575 Jun 28 06:09	21°9544'01	2°55'13
morning man vi	16574 Aug 21 16:09	0°m)	000,	min. Earth dist.	16575 Jun 27 18:14	22°525'06	0.69067 AU
morning set	16574 Sep 04 00:17	20° mg 28'10		morning rise	16575 Jul 03 13:12	15°932'19	0.07007 AC
morning set			1 41 670 411	•			
max. Earth dist.	16574 Sep 09 14:05	29° m 33'45	1.41678 AU	direct	16575 Jul 07 19:10	13°951'14	2004244
	16574 Sep 09 20:23	0∘ ⊽		morning max el	16575 Jul 16 00:50	18° © 33'16	20°43'16
				desc. node	16575 Jul 18 08:43	21°502'10	
superior conj	16574 Sep 17 08:53	12° ≏ 53'05	-1°02'24		16575 Jul 25 10:33	0 \circ Ω	
minimum elong	16574 Sep 17 14:00	13° ≏ 15'40	1°01'33	morning set	16575 Aug 14 15:02	29° Ω 47'14	
asc. node	16574 Sep 24 22:28	26° ♀ 32'57			16575 Aug 14 18:20	0° m)	
	16574 Sep 26 19:17	0° M .		max. Earth dist.	16575 Aug 22 22:54	12° m 55'19	1.43688 AU
evening rise	16574 Sep 27 22:03	2°M03'59			Č	•	
evening max el	16574 Oct 13 20:10	27°M27'43	18°12'53	superior conj	16575 Aug 29 15:10	23° m 51'29	-1°37'37
o vonning man or	16574 Oct 17 00:49	0°×7	10 1200	minimum elong	16575 Aug 29 22:55	24° m) 23'51	
retrograde	16574 Oct 21 02:57	1° × 711'14		minimum ciong	16575 Sep 02 06:37	ე∘ <u>ი</u>	1 30 32
•							
evening set	16574 Oct 23 05:25	0° ∡ 753′10		evening rise	16575 Sep 10 19:57	14° £ 51'30	
	16574 Oct 25 09:06	30°RM		asc. node	16575 Sep 11 19:11	16° ≏ 33'41	
desc. node	16574 Oct 27 08:58	28° ™ 45′04			16575 Sep 19 15:02	0° M	
inferior conj	16574 Oct 30 15:18	26°M08'24		evening max el	16575 Sep 27 09:17	10°M33'30	18°01'08
minimum elong	16574 Oct 30 12:59	26° ™ 13'21	1°01'41	retrograde	16575 Oct 04 00:10	13° M 59'05	
min. Earth dist.	16574 Nov 02 21:10	23°M22'42	0.59063 AU	evening set	16575 Oct 06 10:05	13°M31'27	
morning rise	16574 Nov 06 17:09	20°M39'26		inferior conj	16575 Oct 13 03:29	8° M 27'05	0°20'52
direct	16574 Nov 13 05:04	18° M 44'51		minimum elong	16575 Oct 13 04:07	8°M25'29	0°20'57
morning max el	16574 Nov 27 11:51	26°M25'58	27°35'44	desc. node	16575 Oct 14 06:11	7° M 20'55	
8	16574 Nov 30 21:05	0° ⊼ ¹		min. Earth dist.	16575 Oct 16 04:11	5° M 29′10	0.61359 AU
	16574 Dec 20 19:50	°ੁੱਠ		morning rise	16575 Oct 19 19:16	2°M30'02	0.01557710
asc. node		0 0		•	103/3 Oct 19 19.10	2 11630 02	
		205/21			16575 Oat 26 11:47	0°M 12'10	
	16574 Dec 21 22:34	2°る05'21		direct	16575 Oct 26 11:47	0°M13'19	27050102
morning set	16574 Dec 21 22:34 16574 Dec 29 00:18	16° ප් 20'29		morning max el	16575 Nov 09 16:12	8° M 07'51	27°59'03
morning set	16574 Dec 21 22:34			morning max el	16575 Nov 09 16:12 16575 Nov 26 11:10	8° ™ 07'51 0° √	27°59'03
-	16574 Dec 21 22:34 16574 Dec 29 00:18 16575 Jan 04 05:40	16° පි 20'29 0° ≈			16575 Nov 09 16:12 16575 Nov 26 11:10 16575 Dec 08 19:36	8° ጤ 07'51 0° ҂ ' 21° ҂ '44'15	27°59'03
superior conj	16574 Dec 21 22:34 16574 Dec 29 00:18 16575 Jan 04 05:40 16575 Jan 04 22:23	16° ප් 20'29	1°36'18	morning max el	16575 Nov 09 16:12 16575 Nov 26 11:10 16575 Dec 08 19:36 16575 Dec 12 22:09	8°M07'51 0°ダ 21°ダ44'15 0°る	27°59'03
-	16574 Dec 21 22:34 16574 Dec 29 00:18 16575 Jan 04 05:40	16° පි 20'29 0° ≈	1°36'18 1°36'48	morning max el	16575 Nov 09 16:12 16575 Nov 26 11:10 16575 Dec 08 19:36	8° ጤ 07'51 0° ҂ ' 21° ҂ '44'15	27°59'03
superior conj	16574 Dec 21 22:34 16574 Dec 29 00:18 16575 Jan 04 05:40 16575 Jan 04 22:23	16°る20'29 0°≈ 1°≈33'39		morning max el asc. node	16575 Nov 09 16:12 16575 Nov 26 11:10 16575 Dec 08 19:36 16575 Dec 12 22:09	8°M07'51 0°ダ 21°ダ44'15 0°る	27°59'03 1.31283 AU
superior conj minimum elong	16574 Dec 21 22:34 16574 Dec 29 00:18 16575 Jan 04 05:40 16575 Jan 04 22:23 16575 Jan 04 21:32	16°る20'29 0°≈ 1°≈33'39 1°≈28'56	1°36'48	morning max el asc. node morning set	16575 Nov 09 16:12 16575 Nov 26 11:10 16575 Dec 08 19:36 16575 Dec 12 22:09 16575 Dec 13 02:14	8°M07'51 0°ダ 21°ダ44'15 0°उ 0°उ21'11	
superior conj minimum elong max. Earth dist.	16574 Dec 21 22:34 16574 Dec 29 00:18 16575 Jan 04 05:40 16575 Jan 04 22:23 16575 Jan 04 21:32 16575 Jan 04 12:14	16°♂20'29 0°≈ 1°≈33'39 1°≈28'56 0°≈36'50	1°36'48	morning max el asc. node morning set max. Earth dist.	16575 Nov 09 16:12 16575 Nov 26 11:10 16575 Dec 08 19:36 16575 Dec 12 22:09 16575 Dec 13 02:14	8°M07'51 0°ダ 21°ダ44'15 0°उ 0°उ21'11	
superior conj minimum elong max. Earth dist. evening rise	16574 Dec 21 22:34 16574 Dec 29 00:18 16575 Jan 04 05:40 16575 Jan 04 22:23 16575 Jan 04 21:32 16575 Jan 04 12:14 16575 Jan 11 16:00 16575 Jan 18 06:55	16°♂20'29 0°≈ 1°≈33'39 1°≈28'56 0°≈36'50 16°≈28'02	1°36'48	morning max el asc. node morning set max. Earth dist. superior conj	16575 Nov 09 16:12 16575 Nov 26 11:10 16575 Dec 08 19:36 16575 Dec 12 22:09 16575 Dec 13 02:14 16575 Dec 18 17:42 16575 Dec 20 08:42	8°M07'51 0°ダ 21°ダ44'15 0°℧ 0°℧21'11 12°℧28'17	1.31283 AU
superior conj minimum elong max. Earth dist.	16574 Dec 21 22:34 16574 Dec 29 00:18 16575 Jan 04 05:40 16575 Jan 04 22:23 16575 Jan 04 21:32 16575 Jan 04 12:14 16575 Jan 11 16:00 16575 Jan 18 06:55 16575 Jan 23 08:17	16°♂20'29 0°≈ 1°≈33'39 1°≈28'56 0°≈36'50 16°≈28'02 0° ★ 9° ★ 12'51	1°36'48	morning max el asc. node morning set max. Earth dist.	16575 Nov 09 16:12 16575 Nov 26 11:10 16575 Dec 08 19:36 16575 Dec 12 22:09 16575 Dec 13 02:14 16575 Dec 18 17:42 16575 Dec 20 08:42 16575 Dec 20 06:58	8°肌07'51 0°ダ 21°ダ44'15 0°궁 0°궁21'11 12°궁28'17 16°궁04'07 15°궁54'29	1.31283 AU 1°28'22
superior conj minimum elong max. Earth dist. evening rise	16574 Dec 21 22:34 16574 Dec 29 00:18 16575 Jan 04 05:40 16575 Jan 04 22:23 16575 Jan 04 21:32 16575 Jan 04 12:14 16575 Jan 11 16:00 16575 Jan 18 06:55	16°♂20'29 0°≈ 1°≈33'39 1°≈28'56 0°≈36'50 16°≈28'02 0°⊁	1°36'48 1.30957 AU	morning max el asc. node morning set max. Earth dist. superior conj	16575 Nov 09 16:12 16575 Nov 26 11:10 16575 Dec 08 19:36 16575 Dec 12 22:09 16575 Dec 13 02:14 16575 Dec 18 17:42 16575 Dec 20 08:42	8°M07'51 0°ダ 21°ダ44'15 0°℧ 0°℧21'11 12°℧28'17	1.31283 AU 1°28'22

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desc. node	16576 Jan 10 05:06	27° ≈ 47'20			16576 Dec 17 16:32	0° ≈	
dese. node	16576 Jan 11 15:19	0° ∀		desc. node	16576 Dec 27 02:00	15° ≈ 29'06	
evening max el	16576 Jan 22 12:59	13° ¥ 32'13	25°09'54	evening max el	16577 Jan 02 23:03	23°≈34'26	23°29'07
retrograde	16576 Feb 05 09:15	20°\(\frac{13}{28'42}\)	23 07 34	evening max er	16577 Jan 14 03:59	0° \	23 2701
•	16576 Feb 10 23:33	19° H 18'15		rotro ara do	16577 Jan 16 07:16	0° ∺ 10′21	
evening set		16°\(\dagger)34'13	0.56380 AU	retrograde			
min. Earth dist.	16576 Feb 16 01:31				16577 Jan 18 11:09	30°R≈	
inferior conj	16576 Feb 18 16:20	14° ¥ 52'11		evening set	16577 Jan 20 19:17	29°≈26'36	0.54064.477
minimum elong	16576 Feb 19 01:51	14°) ₹36'42	4°39'13	min. Earth dist.	16577 Jan 27 10:09	26°≈18'28	0.54964 AU
morning rise	16576 Feb 27 06:49	10°) 43′06		inferior conj	16577 Jan 28 21:50	25° ≈ 26'36	
direct	16576 Feb 29 08:19	10°) 30′56		minimum elong	16577 Jan 29 03:58	25° ≈ 17'41	5°45'27
asc. node	16576 Mar 05 17:42	11° ∺ 59'57		morning rise	16577 Feb 06 14:02	21° ≈ 33'38	
morning max el	16576 Mar 09 19:55	15° ₩ 08'46	19°16'41	direct	16577 Feb 09 05:04	21° ≈ 16'51	
	16576 Mar 20 04:51	0° Y		morning max el	16577 Feb 20 06:51	26° ≈ 39'01	20°31'03
morning set	16576 Mar 26 15:28	12° Y 21'30		asc. node	16577 Feb 20 14:59	26° ≈ 59'03	
					16577 Feb 23 08:09	0° ∀	
superior conj	16576 Apr 03 22:00	28° Ƴ 43'40	0°28'11	morning set	16577 Mar 10 22:29	26° ¥ 58'55	
minimum elong	16576 Apr 03 23:39	28° Ƴ 51'40	0°27'39		16577 Mar 12 09:32	$0^{\circ}\mathbf{\Upsilon}$	
_	16576 Apr 04 13:50	0°B					
desc. node	16576 Apr 07 06:03	5° 8 04'49		superior conj	16577 Mar 18 11:57	12° Ƴ 34'21	0°54'38
max. Earth dist.	16576 Apr 10 15:04	11° 8 17'43	1.38396 AU	minimum elong	16577 Mar 18 14:24	12° Ƴ 46'48	0°54'10
evening rise	16576 Apr 14 08:26	17° 8 53'42		max. Earth dist.	16577 Mar 23 22:33	23° Y ′19'32	1.36164 AU
e vennig rise	16576 Apr 21 14:15	0°Ⅱ		desc. node	16577 Mar 25 02:48	25° Y '34'06	1.50101110
	16576 May 12 12:35	0°©		dese. Hode	16577 Mar 27 11:50	0° 8	
evening max el	16576 May 19 15:23	7° 9 58'45	24046127	evening rise	16577 Mar 27 18:25	0° 8 30'12	
•	-	14°950'41	24 40 37	evening rise		0°Ⅱ	
retrograde	16576 May 31 09:48				16577 Apr 14 18:05		25950106
asc. node	16576 Jun 01 15:38	14°5944'14		evening max el	16577 May 02 05:05	21° I I52'09	25°59'06
evening set	16576 Jun 06 02:36	12°525'50	0.60405.477	retrograde	16577 May 14 21:12	29° Ⅱ 08'51	
min. Earth dist.	16576 Jun 10 13:18	7° © 23'02	0.68485 AU	asc. node	16577 May 19 12:43	27° Ⅱ 43'19	
inferior conj	16576 Jun 11 15:34	5° © 55'40	2°34'49	evening set	16577 May 21 00:37	26° Ⅱ 37'30	
minimum elong	16576 Jun 11 13:37	6°902'11	2°33'47	min. Earth dist.	16577 May 25 04:30	22° Ⅱ 11′03	0.67436 AU
	16576 Jun 16 23:44	30°RⅡ		inferior conj	16577 May 26 19:54	20° Ⅱ 07'25	2°02'24
morning rise	16576 Jun 17 00:51	29° Ⅱ 57'57		minimum elong	16577 May 26 17:43	20° Ⅱ 14'20	2°01'11
direct	16576 Jun 20 19:23	28° Ⅱ 36'17		morning rise	16577 Jun 01 11:29	14° Ⅱ 20'30	
	16576 Jun 24 21:30	0 \circ \odot		direct	16577 Jun 04 19:22	13° Ⅱ 17'21	
morning max el	16576 Jun 28 02:10	2° © 37'52	19°35'24	morning max el	16577 Jun 11 10:32	16° Ⅱ 50′26	18°43'00
desc. node	16576 Jul 04 05:53	9° © 53'22		desc. node	16577 Jun 21 03:00	29° Ⅱ 18'59	
greatest brilliancy	16576 Jul 10 22:26	19° © 18'01	-0.6m		16577 Jun 21 14:05	0 \circ \odot	
	16576 Jul 18 02:22	$0^{\circ}\Omega$		morning set	16577 Jul 03 09:10	18° © 08'25	
morning set	16576 Jul 23 19:25	8° £ 42'30			16577 Jul 10 23:55	$0^{\circ}\Omega$	
max. Earth dist.	16576 Aug 04 13:30		1.45154 AU	max. Earth dist.	16577 Jul 18 08:35		1.45938 AU
	16576 Aug 06 11:41	0° m/p					
				superior conj	16577 Jul 19 11:24	13° Ω 12'34	-2°14'26
superior conj	16576 Aug 08 22:04	3° m/52'11	-2°04'08	minimum elong	16577 Jul 19 11:38	13°Ω13'29	
minimum elong	16576 Aug 09 04:47	4° m) 19'00		minimum ciong	16577 Jul 30 03:49	0° m)	2 1133
evening rise	16576 Aug 22 21:54	26° Mp 46'36	2 0103	evening rise	16577 Aug 03 23:26	7° m ₂ 39'37	
evening rise	16576 Aug 24 20:10	20 II) + 0 30		asc. node	16577 Aug 05 25:20 16577 Aug 15 12:38	25° m 52'44	
asc. node	16576 Aug 28 15:53	0 = 6° £ 21'56		asc. node	16577 Aug 13 12.38 16577 Aug 18 07:40	0° ⊽	
evening max el	-		18°08'01	evening max el	-	0 == 7° £ 46'45	10022122
•	16576 Sep 10 00:19	24° ₽ 02'36	18 08 01	Č	16577 Aug 24 13:59		18°32'32
retrograde	16576 Sep 16 09:03	27° £ 23′21		retrograde	16577 Aug 31 01:36	11° £ 15'50	
evening set	16576 Sep 19 03:35	26° Ω 42'41	1005150	evening set	16577 Sep 03 05:24	10° № 19'26	2012110
inferior conj	16576 Sep 25 07:15	21° Ω 21'03	1°25'52	inferior conj	16577 Sep 08 22:46	4° ≙ 42'39	2°12'48
minimum elong	16576 Sep 25 09:18	21° ≙ 15′24	1°25'20	minimum elong	16577 Sep 09 01:03	4° £ 35'43	2°12'11
min. Earth dist.	16576 Sep 27 21:08	18° ≏ 30'39	0.63584 AU	min. Earth dist.	16577 Sep 10 23:17	2° ≙ 15'42	0.65555 AU
desc. node	16576 Sep 30 03:29	16° ≏ 15'50			16577 Sep 12 23:53	30°R, Mp	
morning rise	16576 Oct 01 13:00	15° ≙ 05'57		morning rise	16577 Sep 14 19:28	28° m 18'11	
direct	16576 Oct 08 04:16	12° ₽ 34'45		desc. node	16577 Sep 17 00:48	26° Mp 46′56	
morning max el	16576 Oct 22 01:14	20° ₽ 32'52	27°44'18	direct	16577 Sep 21 04:43	25° m 41'27	
	16576 Oct 30 05:29	0° M.			16577 Sep 30 16:11	0∘ ⊽	
	16576 Nov 18 12:48	0° ∡ ¹		morning max el	16577 Oct 04 12:25	3° ≏ 30'48	26°57'28
asc. node	16576 Nov 24 16:34	11° ∡ ³38'49		-	16577 Oct 24 14:32	0° M	
morning set	16576 Nov 25 20:34	13° ∡ ′58′15		morning set	16577 Nov 09 04:24	27°ML05'03	
max. Earth dist.	16576 Nov 30 17:12	24°×7'02'00	1.32182 AU	<i>5</i>	16577 Nov 10 16:26	0° ∡ 7	
Julia dibi.	16576 Dec 03 11:44	0°る。		asc. node	16577 Nov 10 10:20	1° × ⁷ 43'42	
	10570 DCC 05 11.44	ÿ O		max. Earth dist.	16577 Nov 13 07:59	5° × 16'26	1.33647 AU
superior conj				mun. Lai in uist.	100111101 10 01.09	J A 10 20	1.5507/AU
	16576 Dec 03 15:59	೧∘⋜ว३เ∩ว	1°14'16				
	16576 Dec 03 15:58		1°14'16 1°14'34	superior coni	16577 Nov. 17, 17-54	1/10 /7 2/1/12	0°52'54
minimum elong evening rise	16576 Dec 03 15:58 16576 Dec 03 13:40 16576 Dec 10 12:09	0°る23'02 0°る10'32 15°る19'42		superior conj minimum elong	16577 Nov 17 17:54 16577 Nov 17 15:35	14° ҂ ¹24'13 14° ҂ ¹12'01	0°53'54 0°54'04

evening rise	16577 Nov 24 22:19	29° ∡ ¹43'50			16578 Nov 02 11:13	0° ∡ 7	
e vennig rise	16577 Nov 25 01:22	ੁ°ਰ ਹ°ਰ		evening rise	16578 Nov 09 05:56	14° √ 00'31	
	16577 Dec 12 05:42	0° ≈			16578 Nov 17 10:36	0°ප	
desc. node	16577 Dec 13 22:58	1° ≈ 59'11		evening max el	16578 Nov 27 10:03	14° る 02'36	20°19'09
evening max el	16577 Dec 15 11:01	3° ≈ 32'32	21°47'01	desc. node	16578 Nov 30 20:00	16° ප් 54'57	
retrograde	16577 Dec 27 18:20	9° ≈ 37'22		retrograde	16578 Dec 08 05:26	19° る 25'18	
evening set	16577 Dec 31 00:10	9° ≈ 13'43		evening set	16578 Dec 10 12:06	19° る 12'04	
inferior conj	16578 Jan 08 14:01	5° ≈ 23'59	-6°00'03	inferior conj	16578 Dec 19 06:45	15° る 16'46	-5°12'17
minimum elong	16578 Jan 08 11:07	5° ≈ 28'02	5°59'21	minimum elong	16578 Dec 18 21:16	15° る 30'46	5°09'34
min. Earth dist.	16578 Jan 08 15:16	5° ≈ 22'13	0.54369 AU	min. Earth dist.	16578 Dec 20 20:51	14° る 20'28	0.54711 AU
morning rise	16578 Jan 16 22:43	1° ≈ 36′08		morning rise	16578 Dec 27 05:52	11° る 15'14	
direct	16578 Jan 20 13:51	1° ≈ 07'16		direct	16578 Dec 31 23:11	10° る 27'06	
morning max el	16578 Feb 02 02:38	7°≈12'13	22°07'17	morning max el	16579 Jan 14 12:23	17° る 07'52	23°56'44
asc. node	16578 Feb 07 12:17	13° ≈ 23'42			16579 Jan 24 19:15	0° ≈	
	16578 Feb 17 14:45	0° ∀		asc. node	16579 Jan 25 09:31	0° ≈ 55'26	
morning set	16578 Feb 23 08:59	11°) (42′00		morning set	16579 Feb 07 20:56	26° ≈ 25′01	
					16579 Feb 09 12:44	0°) €	
superior conj	16578 Mar 02 11:03	26°) (47'41	1°14'50				
minimum elong	16578 Mar 02 13:26		1°14'38	superior conj	16579 Feb 14 16:28	11°) (16′03	1°28'45
	16578 Mar 03 23:43	0 ° Υ		minimum elong	16579 Feb 14 18:13	11° ¥ 25′35	1°28'50
max. Earth dist.	16578 Mar 06 11:48	5° Y ′09'24	1.34200 AU	max. Earth dist.	16579 Feb 17 08:30	17° ∺ 01′20	1.32642 AU
evening rise	16578 Mar 10 19:22	13° Y 41'59		evening rise	16579 Feb 22 07:58	27° ¥ 21′07	
desc. node	16578 Mar 11 23:31	15° Y 56′25			16579 Feb 23 15:53	0° Y	
	16578 Mar 19 19:39	9° 8		desc. node	16579 Feb 26 20:15	6° Ƴ 07'41	
	16578 Apr 09 14:27	Π °0			16579 Mar 13 02:10	9° 8	
evening max el	16578 Apr 14 18:56	5° Ⅱ 34'39	26°56'07	evening max el	16579 Mar 28 07:46	18° 8 55'10	27°30'10
retrograde	16578 Apr 28 02:53	13° Ⅱ 04'27		retrograde	16579 Apr 11 02:00	26° 8 28'20	
evening set	16578 May 04 15:09	10° Ⅱ 32'10		evening set	16579 Apr 17 20:01	24° 8 01'59	
asc. node	16578 May 06 09:54	8° Ⅱ 57'35		min. Earth dist.	16579 Apr 21 14:56	20° 8 40'28	0.64066 AU
min. Earth dist.	16578 May 08 13:41	6° Ⅱ 40'06	0.65943 AU	asc. node	16579 Apr 23 07:07	18° 8 55'44	
inferior conj	16578 May 10 18:07	4° ∏ 08'08	1°17'34	inferior conj	16579 Apr 24 07:30	17° 8 51'07	0°19'00
minimum elong	16578 May 10 16:18	4° Ⅱ 13′26	1°16'25	minimum elong	16579 Apr 24 06:57	17° 8 52'34	0°18'24
	16578 May 14 17:06	30° ₹ 8		morning rise	16579 Apr 30 20:13	12° 8 31'32	
morning rise	16578 May 16 18:50	28° 8 33'47		direct	16579 May 03 09:22	11° 8 58'50	
direct	16578 May 19 16:54	27° 8 47'14		morning max el	16579 May 09 17:43	15° 8 13'26	17°48'52
	16578 May 24 19:34	0°Щ			16579 May 20 07:48	0°Щ	
morning max el	16578 May 26 00:33	1° Ⅱ 04'50	18°07'21	desc. node	16579 May 25 20:58	9° Ⅱ 17'07	
desc. node	16578 Jun 08 00:02	19° ∏ 09'12		morning set	16579 May 26 15:41	10° ∏ 36′05	
morning set	16578 Jun 13 22:59	28° ∏ 44'15			16579 Jun 07 08:05	0ಂತಾ	
	16578 Jun 14 17:47	0₀ ௐ			16550 X 00 00 10	20000101	1020100
				superior conj	16579 Jun 08 20:43	2°528'04	
superior conj	16578 Jun 28 21:30	22°930'30		minimum elong	16579 Jun 08 12:20		1°37'52
minimum elong	16578 Jun 28 14:44	22°503'57		max. Earth dist.	16579 Jun 14 01:07	10°543'56	1.45237 AU
max. Earth dist.	16578 Jul 01 05:33	26°509'35	1.45961 AU	evening rise	16579 Jun 24 12:18	26°\$58'34	
	16578 Jul 03 16:41	0°Ω 170 Ω2 4127			16579 Jun 26 11:53	0° N	
evening rise	16578 Jul 15 00:59	17° Ω 34'27			16579 Jul 17 06:51	0°Mp	
araataat brillianay	16578 Jul 23 03:00	0° Т р 5° Т р 42'49	0.7	asc. node evening max el	16579 Jul 20 06:14 16579 Jul 22 03:28	3°Mp33'46	20°10'40
greatest brilliancy	16578 Jul 26 21:48	•	-0.7m	C		5° Mp 33'43	20 10 40
asc. node evening max el	16578 Aug 02 09:25 16578 Aug 07 23:36	14° m 59'40 21° m 38'58	19°13'51	retrograde evening set	16579 Jul 29 21:37 16579 Aug 02 21:38	9° Тр 57'35 8° Тр 25'55	
retrograde	16578 Aug 07 23:36 16578 Aug 14 22:39	21° lly 38'38 25° lly 29'30	17 1331	inferior conj	16579 Aug 02 21:38 16579 Aug 08 04:10	2° My 23'44	3°01'50
evening set	16578 Aug 18 12:15	23 m/29 30 24° m/15'46		minimum elong	16579 Aug 08 04:10	2° My 20'15	3°01'25
inferior conj	16578 Aug 23 22:40	18° Mp 25'31	2°44'01	min. Earth dist.	16579 Aug 08 03:11 16579 Aug 09 00:59	1°M) 12'49	0.68308 AU
minimum elong	16578 Aug 24 00:29	18° Mp 19'33	2°43'31	mm. Latin dist.	16579 Aug 09 00:39	30°RΩ	0.00500 AC
min. Earth dist.	16578 Aug 24 00.29 16578 Aug 25 09:13	16° Mp 33'10		morning rise	16579 Aug 09 22:43 16579 Aug 13 12:21	30 κδι 25° Ω 58'39	
morning rise	16578 Aug 29 12:04	11° m 58'22	0.07130 AC	direct	16579 Aug 19 01:16	23° Ω 33'54	
desc. node	16578 Sep 03 22:07	9° m 25'36		desc. node	16579 Aug 21 19:25	24°Ω04'20	
direct	16578 Sep 04 12:04	9° Mp 24'16			16579 Aug 30 01:44	0° mp	
morning max el	16578 Sep 16 23:59	16° Mp 50'57	25°47'08	morning max el	16579 Aug 30 01:44 16579 Aug 30 11:06	ران 23′25 (۱۳% 0° m	24°22'39
morning max or	16578 Sep 27 23:25	0° ⊽	20 .700		16579 Sep 21 20:18	0° ⊡	
	16578 Oct 17 12:41	0° m .		morning set	16579 Oct 04 22:16	0 — 21° Ω 16'48	
morning set	16578 Oct 22 22:21	9°M34'24		max. Earth dist.	16579 Oct 04 22:10	27° ⊆ 38'06	1.37928 AU
max. Earth dist.	16578 Oct 26 13:29	16°M21'13	1.35611 AU	Darin dist.	16579 Oct 09 20:11	0°M	1.5,720710
asc. node	16578 Oct 29 10:21	21°M54'36	1.55011110		2007, 000 07 20.11	♥ IIV	
300. 110 u c	100,0 000 27 10.21	nv3+30		superior conj	16579 Oct 15 18:19	11°M05'24	-0°04'47
superior conj	16578 Nov 01 11:49	28°M01'10	0°27'22	minimum elong	16579 Oct 15 18:37	11°M06'50	
minimum elong	16578 Nov 01 10:17	27°M53'26		behind sun begin	16579 Oct 15 12:01	10°M35'07	

behind sun end	16579 Oct 16 01:13	11°M38'38			16580 Sep 30 22:21	0° M ₊	
asc. node	16579 Oct 16 07:08	12°M07'15		asc. node	16580 Oct 02 03:54	2°M18'30	
evening rise	16579 Oct 24 08:33	28°M03'09		evening rise	16580 Oct 07 03:14	11° M .44'54	
	16579 Oct 25 08:05	0° ∡			16580 Oct 17 07:22	0° ∡ ¹	
evening max el	16579 Nov 09 23:41	25° ₹ 22'04	19°12'43	evening max el	16580 Oct 23 01:50	7° ∡ ¹30'38	18°28'39
desc. node	16579 Nov 17 17:05	29° ₹ 52'31		retrograde	16580 Oct 30 22:20	11° ⋌ ¹29'55	
retrograde	16579 Nov 19 04:32	29° ₹ 59'26		evening set	16580 Nov 01 21:41	11° ⋌ ¹15'35	
evening set	16579 Nov 21 02:15	29° ∡ ¹48'24 −		desc. node	16580 Nov 03 14:13	10° ∡ ′41'59 −	
inferior conj	16579 Nov 29 13:37	25° ∡ 37'18		inferior conj	16580 Nov 09 17:37	6° ∡ ¹43'30	
minimum elong	16579 Nov 29 04:46	25° ₹ 52'09		minimum elong	16580 Nov 09 12:55	6° ≯ 52'40	1°56'31
min. Earth dist.	16579 Dec 02 06:25	23° ∡ ¹48'46	0.55932 AU	min. Earth dist.	16580 Nov 12 22:35	4° ∡ °13'35	0.57814 AU
morning rise	16579 Dec 07 04:50	21° ∡ *04'55		morning rise	16580 Nov 17 00:47	1° ≯ ³34'31	
direct	16579 Dec 12 20:00	19° ∡ ′51′50			16580 Nov 21 19:42	30°RM	
morning max el	16579 Dec 26 21:36	27° ∡ 01′06	25°42'09	direct	16580 Nov 23 07:24	29°M54'20	
	16579 Dec 29 18:51	0°ප			16580 Nov 24 19:21	0° ∡ ¹	
asc. node	16580 Jan 12 06:42	19° る 17'17		morning max el	16580 Dec 07 13:19		27°04'16
	16580 Jan 18 00:51	0° ≈			16580 Dec 24 10:57	0°ಕ	
morning set	16580 Jan 23 08:27	11° ≈ 02'10		asc. node	16580 Dec 29 03:49	8° る 16'37	
				morning set	16581 Jan 06 17:44	25° る 28'46	
superior conj	16580 Jan 30 01:46	25° ≈ 52'15	1°36'28		16581 Jan 08 19:42	0° ≈	
minimum elong	16580 Jan 30 02:34	25° ≈ 56'44	1°36'49				
max. Earth dist.	16580 Jan 31 11:37	28° ≈ 59'37	1.31565 AU	superior conj	16581 Jan 13 12:56	10° ≈ 30'19	1°38'07
	16580 Jan 31 22:34	0° ∀		minimum elong	16581 Jan 13 12:41	10° ≈ 28'56	1°38'35
evening rise	16580 Feb 06 05:17	11° ¥ 20′10		max. Earth dist.	16581 Jan 13 18:32	11° ≈ 01'40	1.31020 AU
desc. node	16580 Feb 13 16:59	26° ∺ 02'21		evening rise	16581 Jan 20 08:56	25° ≈ 33'18	
	16580 Feb 15 21:38	0° Y			16581 Jan 22 11:44	0° ∀	
	16580 Mar 08 00:46	$0^{\circ}B$		desc. node	16581 Jan 30 13:45	15° ¥ 33'21	
evening max el	16580 Mar 09 17:46	1° 8 42'12	27°34'42		16581 Feb 08 13:24	0° Y	
retrograde	16580 Mar 23 17:37	9° 8 10'45		evening max el	16581 Feb 19 22:30	13° Ƴ 43'41	27°04'52
evening set	16580 Mar 30 12:37	6° 8 58'01		retrograde	16581 Mar 05 23:48	21° Y 01'37	
min. Earth dist.	16580 Apr 03 06:55	4° 8 00'53	0.61906 AU	evening set	16581 Mar 12 13:48	19° Ƴ 09'45	
inferior conj	16580 Apr 06 08:50	1° 8 08'39	-0°53'57	min. Earth dist.	16581 Mar 16 12:47	16° Ƴ 28'01	0.59631 AU
minimum elong	16580 Apr 06 10:42	1° 8 04'17	0°53'27	inferior conj	16581 Mar 19 18:21	13° Y 50'12	-2°19'54
	16580 Apr 07 14:38	30° Ŗ ♈		minimum elong	16581 Mar 19 23:42	13° Ƴ 39'17	2°17'54
asc. node	16580 Apr 09 04:20	28° Y '39'10		asc. node	16581 Mar 27 01:36	9° Ƴ 15'35	
morning rise	16580 Apr 13 12:00	26° Y ′06′14		morning rise	16581 Mar 27 13:12	9° Ƴ 07'27	
direct	16580 Apr 15 17:30	25° Y '44'01		direct	16581 Mar 29 13:17	8° Ƴ 52'05	
morning max el	16580 Apr 22 11:06	29° Y °07'34	17°48'05	morning max el	16581 Apr 06 01:07	12° Ƴ 35'57	18°06'04
_	16580 Apr 23 07:34	0°8		_	16581 Apr 17 17:18	9° 8	
morning set	16580 May 08 07:04	23° 8 31'31		morning set	16581 Apr 21 15:16	7° 8 12'32	
desc. node	16580 May 11 17:51	29° 8 37'35		desc. node	16581 Apr 28 14:42	20° 8 05'30	
	16580 May 11 22:57	Π $^{\circ}0$					
	-			superior conj	16581 May 01 14:32	25° 8 28'24	-0°24'45
superior conj	16580 May 19 18:10	13° Ⅲ 27′30	-1°02'26	minimum elong	16581 May 01 12:30	25° 8 19'18	0°24'52
minimum elong	16580 May 19 12:31	13° Ⅲ 03'37	1°02'10		16581 May 04 04:16	$\Pi^{\circ}0$	
max. Earth dist.	16580 May 26 17:10	24° Ⅱ 56′14	1.43852 AU	max. Earth dist.	16581 May 09 04:51	8° Ⅲ 34'36	1.41951 AU
	16580 May 29 21:06	0 \circ \odot		evening rise	16581 May 14 08:24	17° Ⅱ 00'53	
evening rise	16580 Jun 03 02:16	6° © 36'39			16581 May 22 16:15	0 \circ \odot	
	16580 Jun 18 18:28	$0^{\circ}\Omega$			16581 Jun 13 14:05	$0^{\circ}\Omega$	
evening max el	16580 Jul 04 01:20	19° Ω 29'02	21°20'28	evening max el	16581 Jun 16 18:20	3° Ω 24'15	22°39'05
asc. node	16580 Jul 06 03:07	21° Ω 24′00		asc. node	16581 Jun 23 00:01	8° Ω 15′06	
retrograde	16580 Jul 12 20:31	24° Ω 34'38		retrograde	16581 Jun 26 17:38	9° Ω 14'23	
evening set	16580 Jul 17 07:35	22° Ω 45′27		evening set	16581 Jul 01 16:19	7° Ω 09'03	
inferior conj	16580 Jul 22 12:58	16° Ω 32'47	3°07'56	inferior conj	16581 Jul 06 23:00	0° Ω 47'37	3°03'20
minimum elong	16580 Jul 22 13:03	16° Ω 32'30	3°07'29	minimum elong	16581 Jul 06 22:09	0° Ω 50'34	3°02'43
min. Earth dist.	16580 Jul 22 20:26	16° Ω 06'47	0.68993 AU	min. Earth dist.	16581 Jul 06 17:20	1° Ω 07'20	0.69190 AU
morning rise	16580 Jul 27 18:16	10° Ω 13′04			16581 Jul 07 12:43	30° ₹ 5	
direct	16580 Aug 01 19:17	8° Ω 02'47		morning rise	16581 Jul 12 03:51	24° © 35'29	
desc. node	16580 Aug 07 16:39	10° Ω 21′03		direct	16581 Jul 16 16:47	22°5643'04	
morning max el	16580 Aug 11 22:53	14° Ω 03′54	22°53'30	morning max el	16581 Jul 25 14:02	27° © 52'19	21°28'02
	16580 Aug 24 20:54	0° m		desc. node	16581 Jul 25 13:53	27° © 51'58	
	16580 Sep 13 18:01	0∘ ⊽			16581 Jul 27 14:22	$0^{\circ}\Omega$	
morning set	16580 Sep 15 00:18	2° ჲ 03'46			16581 Aug 18 10:16	0° m	
max. Earth dist.	16580 Sep 19 12:14	9° ≏ 35'16	1.40353 AU	morning set	16581 Aug 26 02:43	11° m /51'10	
				max. Earth dist.	16581 Sep 01 17:15	22° Mp 27'16	1.42595 AU
superior conj	16580 Sep 27 09:28	23° ≏ 28'36	-0°40'55		16581 Sep 06 06:15	0∘ ⊽	
minimum elong	16580 Sep 27 12:39	23° ≏ 43'08	0°40'12				

superior conj	16581 Sep 09 04:50	5° ≙ 00'27	-1°17'57	superior conj	16582 Aug 21 01:02	15° m 33'41	
minimum elong	16581 Sep 09 11:18		1°17'03	minimum elong	16582 Aug 21 08:59	16°Mp06'15	1°49'53
asc. node	16581 Sep 19 00:39	22° ≏ 24'22			16582 Aug 29 16:43	0∘ 亚	
evening rise	16581 Sep 20 10:03	24° £ 55'37		evening rise	16582 Sep 03 00:07	7° Ω 22'40	
	16581 Sep 23 05:21 16581 Oct 06 12:11	0°ጤ 20°ጤ18'49	18°05'34	asc. node	16582 Sep 05 21:23	12° £ 20'34 0° ™	
evening max el retrograde	16581 Oct 10 12.11 16581 Oct 13 10:44	20 IL 1849 23°M 52'41	16 03 34	evening max el	16582 Sep 17 00:13 16582 Sep 20 02:33	3°M35'33	18°01'49
evening set	16581 Oct 15 16:19	23°M30'52		retrograde	16582 Sep 26 13:36	6°M57'32	10 01 49
desc. node	16581 Oct 21 11:23	19°M47'56		evening set	16582 Sep 29 03:07	6°ML24'38	
inferior conj	16581 Oct 22 18:55	18°M37'26	-0°25'10	inferior conj	16582 Oct 05 14:14	1°ML12'17	0°50'49
minimum elong	16581 Oct 22 18:04	18°M39'23	0°24'25	minimum elong	16582 Oct 05 15:39	1°ML08'36	0°50'33
min. Earth dist.	16581 Oct 25 23:32	15°M44'13	0.60040 AU		16582 Oct 06 17:55	30° ₹ Ω	
morning rise	16581 Oct 29 16:36	12°M55'44		desc. node	16582 Oct 08 08:40	28° ≏ 20'38	
direct	16581 Nov 05 07:29	10° M 50′57		min. Earth dist.	16582 Oct 08 10:39	28° ≏ 15'40	0.62327 AU
morning max el	16581 Nov 19 13:22	18° ™ 37'55	27°50'32	morning rise	16582 Oct 12 01:41	25° ≏ 06'25	
	16581 Nov 29 03:59	0° ⊼ ¹		direct	16582 Oct 18 18:11	22° - 42'52	
asc. node	16581 Dec 16 00:53	27° メ *43'47 0°る			16582 Nov 01 03:55	0°M 0°M 2012€	27057117
morning set	16581 Dec 17 04:56 16581 Dec 21 22:58	9° る 40'39		morning max el	16582 Nov 01 20:08 16582 Nov 23 07:23	0° ™ 39'36 0° ҂	2/-3/10
max. Earth dist.	16581 Dec 28 01:47	23°る00'40	1.31028 AU	asc. node	16582 Dec 02 21:53	17° ∡ 30′19	
max. Dartii dist.	10301 Bec 20 01.17	25 000 10	1.51020710	morning set	16582 Dec 05 21:58	23° × ⁷ 32'03	
superior conj	16581 Dec 29 00:07	25° る 05'27	1°33'41	3	16582 Dec 09 00:10	ලංප	
minimum elong	16581 Dec 28 22:52	24° ろ 58'28	1°34'11	max. Earth dist.	16582 Dec 11 05:24	4° ප් 46'43	1.31599 AU
	16581 Dec 31 04:46	0° ≈					
evening rise	16582 Jan 04 16:51	9° ≈ 55'49		superior conj	16582 Dec 13 09:22	9° る 31'32	
	16582 Jan 14 19:29	0° ∀		minimum elong	16582 Dec 13 07:20	9° ප් 20'22	1°23'32
desc. node	16582 Jan 17 10:33	4°) (32′10		evening rise	16582 Dec 20 03:02	24° る 22'14	
evening max el	16582 Feb 01 19:30	24°) € 52'30	26°00'15	1 1	16582 Dec 22 18:30	0° ≈	
	16582 Feb 08 15:44	0° Ƴ 1° Ƴ 56'47		desc. node	16583 Jan 04 07:25	22° ≈ 46'23 0° ¥	
retrograde evening set	16582 Feb 15 18:31 16582 Feb 21 20:09	0° Υ 30'35		evening max el	16583 Jan 09 14:05 16583 Jan 14 08:11	0° π 5° ∺ 11'53	24028117
evening set	16582 Feb 22 20:58	30°R ∺		retrograde	16583 Jan 28 00:10	12° ∺ 00′28	24 20 17
min. Earth dist.	16582 Feb 26 08:35	**-	0.57469 AU	evening set	16583 Feb 02 04:33	11°) (00'20	
inferior conj	16582 Mar 01 08:27	25°) 45'49		min. Earth dist.	16583 Feb 07 20:03	8° ¥ 09'51	0.55694 AU
minimum elong	16582 Mar 01 17:11	25°) 30′26	3°49'02	inferior conj	16583 Feb 10 01:09	6°) 48′15	-5°14'03
morning rise	16582 Mar 09 17:22	21° ¥ 24'34		minimum elong	16583 Feb 10 10:06	6°) 34′29	5°11'50
direct	16582 Mar 11 16:26	21° ¥ 12'17		morning rise	16583 Feb 18 17:45	2° ¥ 47'16	
asc. node	16582 Mar 13 22:51	21° ¥ 29'30		direct	16583 Feb 20 23:42	2°) 33′52	
morning max el	16582 Mar 20 07:51	25°) €27'22	18°44'33	asc. node	16583 Feb 28 20:09	5°) (30′42	
	16582 Mar 24 04:26	0°Υ′		morning max el	16583 Mar 03 03:02	7°) (29'33 0° Υ	19°45'33
morning set	16582 Apr 05 11:13 16582 Apr 09 21:19	21° Y 24'12 0° B		morning set	16583 Mar 17 15:59 16583 Mar 20 15:01	5° Υ 54'23	
	10362 Apr 09 21.19	0.0		morning set	10363 Iviai 20 13.01	3 1 34 23	
superior conj	16582 Apr 14 06:28	8° 8 21'28	0°10'15	superior conj	16583 Mar 28 13:31	21° Y ′54'08	0°40'09
minimum elong	16582 Apr 14 07:08	8° 8 24'36	0°09'49	minimum elong	16583 Mar 28 15:38	22° Y ′04'36	0°39'37
behind sun begin	16582 Apr 14 01:39	7° 8 58'53			16583 Apr 01 17:52	9° 8	
behind sun end	16582 Apr 14 12:36	8° 8 50'16		desc. node	16583 Apr 02 08:17	1° 8 08'05	
desc. node	16582 Apr 15 11:31	10° 8 37'04		max. Earth dist.	16583 Apr 03 18:49		1.37423 AU
max. Earth dist.	16582 Apr 21 12:37	21° 8 31'56	1.39730 AU	evening rise	16583 Apr 07 11:18	10° 8 30'55	
evening rise	16582 Apr 25 11:44	28° ႘ 20'37 0°Ⅱ			16583 Apr 19 04:27	0° Ⅱ 0° ©	
	16582 Apr 26 11:25 16582 May 16 03:50	0°©		evening max el	16583 May 11 16:20 16583 May 12 21:54		25°18'49
evening max el	16582 May 30 08:33	17° 5 20'02	24°00'47	retrograde	16583 May 25 02:03	8°9518'49	23 10 47
asc. node	16582 Jun 09 20:59	23°9549'43	2. 00 .,	asc. node	16583 May 27 18:02	7°9549'40	
retrograde	16582 Jun 10 11:48	23° © 51'20		evening set	16583 May 30 23:40	5° © 50'15	
evening set	16582 Jun 15 22:13	21° 5 32'23		min. Earth dist.	16583 Jun 04 07:10	1° 5 03'26	0.68096 AU
min. Earth dist.	16582 Jun 20 13:35	16° © 08'25	0.68890 AU		16583 Jun 05 02:44	30°RⅡ	
inferior conj	16582 Jun 21 08:22	15° © 04'35	2°48'19	inferior conj	16583 Jun 05 15:07	29° Ⅱ 19'34	
minimum elong	16582 Jun 21 06:44	15°5010'07	2°47'26	minimum elong	16583 Jun 05 13:01	29° Ⅱ 26′28	2°21'23
morning rise	16582 Jun 26 15:17	9°501'27		morning rise	16583 Jun 11 02:46	23° II 26'34	
direct	16582 Jun 30 16:24	7°528'33	20012127	direct	16583 Jun 14 16:39	22° Ⅱ 13'04	10011112
morning max el desc. node	16582 Jul 08 11:18 16582 Jul 12 11:06	11° © 51'26 16° © 18'21	20°12'36	morning max el	16583 Jun 21 15:51 16583 Jun 25 05:40	26°∏00'48 0°ᢒ	19°11'12
uesc. noue	16582 Jul 12 11:06 16582 Jul 22 12:23	16°2018′21 0°Ω		desc. node	16583 Jun 25 05:40 16583 Jun 29 08:15	0°99 5°9925'46	
morning set	16582 Aug 05 11:03	20° Ω 54'46		greatest brilliancy	16583 Jul 04 11:18	12°951'06	-0.7m
<i>3 ,</i>	16582 Aug 11 07:34	0° m)		morning set	16583 Jul 15 17:08	29° © 57'42	
max. Earth dist.	16582 Aug 15 05:16		1.44397 AU	Č	16583 Jul 15 17:44	$0^{\circ}\Omega$	

max. Earth dist.	16583 Jul 28 22:26	20° Ω 28'09	1.45576 AU	minimum elong	16584 Jul 10 06:01	4° Ω 16'24	
	16502 1 1 21 22 16	250 01 4120	2010/51	max. Earth dist.	16584 Jul 10 18:07	5° Ω 03'33	1.46032 AU
superior conj	16583 Jul 31 23:16	25° Ω 14'20		evening rise	16584 Jul 26 07:02	29° Ω 20'02	
minimum elong	16583 Aug 01 03:48	25° Ω 32'10	2-11-05	4 41 311	16584 Jul 26 17:13	0°M) 130M-20144	0.0
	16583 Aug 03 23:27	0° Т р 18° Тр 53'25		greatest brilliancy	16584 Aug 04 06:06	13° Mp 20'44	-0.8m
evening rise	16583 Aug 15 16:13	0° ∪		asc. node	16584 Aug 09 14:55	21° ™ 24'50 0° ₽	
asc. node	16583 Aug 22 11:33	0 <u>≈</u> 2° Ω 02'51		avanina may al	16584 Aug 16 05:59	0 <u>₽</u> 1° ₽ 00'53	18°48'05
evening max el	16583 Aug 23 18:08 16583 Sep 03 17:20	2 2 02 31 17° 2 12'22	18°16'15	evening max el retrograde	16584 Aug 17 05:32	1 ≥ 00 33 4° ♀ 37'47	18 48 03
retrograde	16583 Sep 10 02:22	20° Ω 35'25	18 10 13	evening set	16584 Aug 23 21:11 16584 Aug 27 04:58	3° £ 34'22	
evening set	16583 Sep 13 00:40	20 ⊆ 33 23 19° ⊆ 48'26		evening set	16584 Aug 31 01:01	30°RM)	
inferior conj	16583 Sep 18 23:32	14° ⊆ 19'57	1°47'49	inferior conj	16584 Sep 01 19:00	27° m) 51'49	2°27'45
minimum elong	16583 Sep 19 01:47	14° ⊆ 13'26	1°47'13	minimum elong	16584 Sep 01 21:09	27° mp 45'03	2°27'11
min. Earth dist.	16583 Sep 21 07:51	11° ⊆ 37'49	0.64458 AU	min. Earth dist.	16584 Sep 03 13:41	25° m ₂ 38'10	0.66284 AU
morning rise	16583 Sep 25 01:14	7° Ω 59'35	0.01130710	morning rise	16584 Sep 07 12:21	21° m) 25'18	0.00201710
desc. node	16583 Sep 25 05:57	7° ⊆ 50'20		desc. node	16584 Sep 11 03:16	19° m) 14'57	
direct	16583 Oct 01 14:14	5° £ 25'06		direct	16584 Sep 13 17:59	18° m) 48'27	
morning max el	16583 Oct 15 06:42	13° Ω 21'43	27°27'51	morning max el	16584 Sep 26 18:13	26° m/30'44	26°29'46
	16583 Oct 28 17:35	0°M			16584 Sep 30 00:09	0∘ <u>⊽</u>	
	16583 Nov 15 21:30	0° ⊼			16584 Oct 21 07:45	0° M	
morning set	16583 Nov 19 12:14	6° ₹ ¹57'35		morning set	16584 Nov 01 14:38	19° M 49'50	
asc. node	16583 Nov 19 18:52	7° ∡ ³30'19		max. Earth dist.	16584 Nov 05 11:56	27°ML19'35	1.34427 AU
max. Earth dist.	16583 Nov 24 01:35	16° ∡ 12'45	1.32740 AU	asc. node	16584 Nov 05 15:46	27°MJ38'31	
					16584 Nov 06 20:12	0° ∡ ¹	
superior conj	16583 Nov 27 14:39	23° х ⁴43'43	1°06'23				
minimum elong	16583 Nov 27 12:16	23° ∡ ³30′54	1°06'37	superior conj	16584 Nov 10 13:32	7° ∡ ³35'38	0°43'23
	16583 Nov 30 12:10	ರ°ರ		minimum elong	16584 Nov 10 11:27	7° ∡ ¹24'46	0°43'32
evening rise	16583 Dec 04 13:46	8° る 48'32		evening rise	16584 Nov 17 23:05	23° х 09′59	
	16583 Dec 15 10:26	0° ≈			16584 Nov 21 06:28	0°ರ	
desc. node	16583 Dec 22 04:20	10° ≈ 00′18		evening max el	16584 Dec 07 09:27	25° る 15'27	21°07'18
evening max el	16583 Dec 26 17:35	15° ≈ 06'44	22°44'39	desc. node	16584 Dec 08 01:19	25° る 53'30	
retrograde	16584 Jan 08 17:11	21° ≈ 31'45			16584 Dec 14 02:13	0° ≈	
evening set	16584 Jan 12 16:10	20° ≈ 57'36		retrograde	16584 Dec 19 02:44	1° ≈ 03'14	
min. Earth dist.	16584 Jan 20 02:45	17° ≈ 33'05	0.54598 AU	evening set	16584 Dec 21 20:53	0° ≈ 45′26	
inferior conj	16584 Jan 20 23:35	17° ≈ 03'36	-5°59'48		16584 Dec 24 10:12	30°Ŗる	
minimum elong	16584 Jan 21 02:14	16° ≈ 59'51	5°59'13	inferior conj	16584 Dec 30 14:11	26° පි 55'15	
morning rise	16584 Jan 29 13:25	13° ≈ 14'48		minimum elong	16584 Dec 30 07:39	27° る 04'30	
direct	16584 Feb 01 13:30	12°≈54'04		min. Earth dist.	16584 Dec 31 08:03	26° පි 29'56	0.54396 AU
morning max el	16584 Feb 13 07:28	18°≈35'04	21°09'43	morning rise	16585 Jan 07 18:33	23°る03'37	
asc. node	16584 Feb 15 17:26	21°≈08′22		direct	16585 Jan 11 21:03	22° る 27'15	22052104
	16584 Feb 22 02:54	0°) {		morning max el	16585 Jan 24 22:02	28° ⋜ 49'20	22°53'04
morning set	16584 Mar 03 23:43	20°) €34'35		Ī	16585 Jan 26 02:30	0° ≈	
	16584 Mar 08 11:28	0 ° Υ		asc. node	16585 Feb 01 14:41	8°≈04'04	
aumariar aani	16594 Mor. 11, 07:42	5° Ƴ 55'28	1°03'59	morning set	16585 Feb 13 22:23	0° ∺ 5° ∺ 18'31	
superior conj	16584 Mar 11 07:43 16584 Mar 11 10:14	5 1 33 28 6°Υ08'26	1°03'37	morning set	16585 Feb 16 11:04	3 Ж1831	
minimum elong max. Earth dist.	16584 Mar 16 03:56	15° Υ 42'01	1.35279 AU	superior conj	16585 Feb 23 09:49	20°) 16′34	1°21'30
desc. node	16584 Mar 19 05:01	21° Y '34'53	1.33279 AU	minimum elong	16585 Feb 23 12:00	20° X 10'34	1°21'25
evening rise	16584 Mar 20 04:01	21 \ \ \ 34 \ 33 \ \ 23^\column \ \ \ \ \ 23'\ 07		max. Earth dist.	16585 Feb 26 20:05		1.33478 AU
evening rise	16584 Mar 23 18:51	0°8		max. Earth dist.	16585 Feb 28 00:58	0° Υ	1.55476710
	16584 Apr 11 20:18	0°U		evening rise	16585 Mar 03 10:20	6° Ƴ 48'16	
evening max el	16584 Apr 24 11:29	15° ∏ 03'48	26°25'46	desc. node	16585 Mar 06 01:44	11° Y 53'34	
retrograde	16584 May 07 11:19	22° I 128'28	20 20 .0	desc. node	16585 Mar 16 09:53	0°8	
evening set	16584 May 13 18:46	19° ∏ 55'42		evening max el	16585 Apr 07 01:11	28° 8 39'09	27°13'58
asc. node	16584 May 13 15:10	20° Ⅱ 02'59		<i>y</i>	16585 Apr 08 11:42	0°II	
min. Earth dist.	16584 May 17 20:03	15° ∏ 44'19	0.66842 AU	retrograde	16585 Apr 20 14:32	6° Ⅱ 11'57	
inferior conj	16584 May 19 17:08	13° Ⅱ 27′09	1°44'58	evening set	16585 Apr 27 05:29	3° Ⅱ 41'30	
minimum elong	16584 May 19 15:01	13° Ⅱ 33'39		asc. node	16585 Apr 30 12:19	0° Ⅱ 39'57	
morning rise	16584 May 25 12:15	7° ∏ 45′29		min. Earth dist.	16585 May 01 02:15	0° Ⅱ 02'44	0.65178 AU
direct	16584 May 28 15:44	6° Ⅱ 49'53			16585 May 01 03:15	30° ₹ 8	
morning max el	16584 Jun 04 02:54	10° Ⅱ 15′09	18°25'48	inferior conj	16585 May 03 11:58	27° 8 21'50	0°54'29
desc. node	16584 Jun 15 05:19	25° Ⅱ 02'47		minimum elong	16585 May 03 10:34	27° 8 25'46	0°53'30
	16584 Jun 18 10:04	0 \circ \odot		morning rise	16585 May 09 17:25	21° 8 53'16	
morning set	16584 Jun 24 15:57	9° © 50'07		direct	16585 May 12 11:30	21° 8 13'01	
	16584 Jul 07 12:14	0 ° Ω		morning max el	16585 May 18 18:33	24° 8 28'14	17°57'20
					16585 May 23 09:46	Π °0	
superior conj	16584 Jul 10 09:10	4° Ω 28'41	-2°12'45	desc. node	16585 Jun 02 02:19	15° Ⅱ 01'35	

morning set	16585 Jun 05 17:27	20° Ⅱ 59'17		direct	16586 Apr 26 00:59	5° 8 14'18	
	16585 Jun 11 05:42	0 \circ \mathfrak{s}		morning max el	16586 May 02 12:07	8° 8 31'15	17°46'18
					16586 May 16 21:58	Π $^{\circ}0$	
superior conj	16585 Jun 19 23:09	13° © 59'27	-1°55'06	morning set	16586 May 18 20:30	3° Ⅱ 20′16	
minimum elong	16585 Jun 19 14:57	13° © 27'00	1°55'04	desc. node	16586 May 19 23:13	5° Ⅱ 15′20	
max. Earth dist.	16585 Jun 23 14:26	19° 5 42'54	1.45740 AU				
	16585 Jun 30 05:09	$0^{\circ}\Omega$		superior conj	16586 May 31 07:08	24° Ⅲ 21'13	-1°23'38
evening rise	16585 Jul 06 00:40	8° Ω 56'43		minimum elong	16586 May 30 23:36	23° II 50'18	1°23'18
	16585 Jul 19 23:49	0° m y			16586 Jun 03 18:29	0 \circ \odot	
greatest brilliancy	16585 Jul 19 18:24	29° Ω 40′16	-0.6m	max. Earth dist.	16586 Jun 06 09:04	4° 5 010'38	1.44727 AU
asc. node	16585 Jul 27 11:42	10° m 19'12		evening rise	16586 Jun 15 10:59	18° © 21'21	
evening max el	16585 Jul 31 12:56	14° m 55'12	19°36'15		16586 Jun 23 03:44	$0^{\circ}\Omega$	
retrograde	16585 Aug 07 19:12	18° m 58'15		asc. node	16586 Jul 14 08:32	28° Ω 36′08	
evening set	16585 Aug 11 13:09	17° m 37'01		evening max el	16586 Jul 14 14:16	28° Ω 50'31	20°39'02
inferior conj	16585 Aug 16 21:35	11° m 41'48	2°53'03		16586 Jul 15 19:33	0° m	
minimum elong	16585 Aug 16 23:06	11° m 36'45	2°52'36	retrograde	16586 Jul 22 18:15	3° M 30'52	
min. Earth dist.	16585 Aug 18 02:19	10°M)06'15	0.67705 AU	evening set	16586 Jul 26 23:00	1° Mp 51'28	
morning rise	16585 Aug 22 08:31	5° m) 15'07		-	16586 Jul 28 21:19	30° R Ω	
direct	16585 Aug 28 04:06	2° m/ 44'01		inferior conj	16586 Aug 01 04:44	25° Ω 44'45	3°05'46
desc. node	16585 Aug 29 00:33	2° m/ 46'55		minimum elong	16586 Aug 01 05:22	25° Ω 42'35	3°05'21
morning max el	16585 Sep 09 05:20	9° m 56'16	25°12'14	min. Earth dist.	16586 Aug 01 19:47	24° Ω 52'52	0.68661 AU
C	16585 Sep 25 03:47	0∘ ⊽		morning rise	16586 Aug 06 11:26	19° Ω 21'56	
	16585 Oct 13 22:18	0° M .		direct	16586 Aug 11 19:24	17° Ω 02'52	
morning set	16585 Oct 15 01:25	2°M00'21		desc. node	16586 Aug 15 21:49	18° Ω 10′09	
max. Earth dist.	16585 Oct 18 13:53	8°M25'07	1.36571 AU	morning max el	16586 Aug 22 16:26	23° Ω 32'02	23°44'51
asc. node	16585 Oct 23 12:36	17° M 50'51		, and the second	16586 Aug 28 10:08	0° m/y	
					16586 Sep 18 12:22	0° ∿	
superior conj	16585 Oct 25 03:04	21°ML00'08	0°14'22	morning set	16586 Sep 26 16:29	13° ≏ 20′20	
minimum elong	16585 Oct 25 02:11	20°M55'43	0°14'37	max. Earth dist.	16586 Sep 30 12:56	19° Ω 58'34	1.38966 AU
behind sun begin	16585 Oct 24 23:27	20°M42'11			16586 Oct 06 02:32	0°M₊	
behind sun end	16585 Oct 25 04:55	21°M09'16					
	16585 Oct 29 14:20	0° ⊼ ¹		superior conj	16586 Oct 08 03:38	3°M48'49	-0°19'44
evening rise	16585 Nov 02 04:53	7° ∡ "21'32		minimum elong	16586 Oct 08 05:03	3°M55'26	
8	16585 Nov 14 15:36	0°ප		asc. node	16586 Oct 10 09:24	8°M03'44	
evening max el	16585 Nov 19 14:49	6° ප 06'17	19°48'05	evening rise	16586 Oct 17 04:35	21°M17'05	
desc. node	16585 Nov 24 22:21	10° ට 01'48		8	16586 Oct 21 17:10	0° ⊼	
retrograde	16585 Nov 29 17:08	11° ට 08'44		evening max el	16586 Nov 02 10:15	17° ∡ ¹47'58	18°51'14
evening set	16585 Dec 01 18:32	10° る 57'09		retrograde	16586 Nov 11 00:07	22° ₹ 07'57	
inferior conj	16585 Dec 10 11:31	6° ප 56'21	-4°37'16	desc. node	16586 Nov 11 19:28	22° ₹ 05'46	
minimum elong	16585 Dec 10 01:32	7° る 11'48	4°33'49	evening set	16586 Nov 12 21:44	21° ₹ '55'59	
min. Earth dist.	16585 Dec 12 14:49	5° る 37'03	0.55138 AU	inferior conj	16586 Nov 21 03:04	17° ∡ ³35′50	-2°58'07
morning rise	16585 Dec 18 07:10	2° ප 43'31		minimum elong	16586 Nov 20 19:51	17° ∡ ¹48'46	2°54'48
direct	16585 Dec 23 10:51	1° る 45'02		min. Earth dist.	16586 Nov 24 02:36	15° ∡ ′28'15	0.56673 AU
morning max el	16586 Jan 06 06:07	8° る 38'27	24°43'15	morning rise	16586 Nov 28 15:04	12° √ 48'11	
asc. node	16586 Jan 19 11:54	25° る 59'05		direct	16586 Dec 04 13:35	11° ₹ 23'55	
	16586 Jan 21 20:26	0° ≈		morning max el	16586 Dec 18 17:37	18° √ 42'12	26°20'54
morning set	16586 Jan 31 23:03	19° ≈ 59'37			16586 Dec 28 05:15	5°0	
	16586 Feb 05 12:43	0° ∀		asc. node	16587 Jan 06 09:03	14° る 38'43	
					16587 Jan 14 06:24	0° ≈	
superior conj	16586 Feb 07 17:08	4°) 48′55	1°32'46	morning set	16587 Jan 16 09:52	4° ≈ 33'24	
minimum elong	16586 Feb 07 18:30	4° ¥ 56′29	1°32'58				
max. Earth dist.	16586 Feb 09 19:56	9°) €26′26	1.32125 AU	superior conj	16587 Jan 23 03:29	19° ≈ 26'47	1°37'53
evening rise	16586 Feb 15 02:59	20°) 36′57		minimum elong	16587 Jan 23 03:51	19° ≈ 28'48	1°38'19
	16586 Feb 19 21:14	$0^{\circ}\mathbf{\Upsilon}$		max. Earth dist.	16587 Jan 24 01:19	21° ≈ 28'32	1.31274 AU
desc. node	16586 Feb 20 22:26	1° Y 58'38			16587 Jan 27 22:19	0° ∀	
	16586 Mar 10 09:55	9° 8		evening rise	16587 Jan 30 03:19	4°){ 42'56	
evening max el	16586 Mar 20 13:18	11° 8 47'42	27°36'09	desc. node	16587 Feb 07 19:12	21°)(44'24	
retrograde	16586 Apr 03 10:22	19° 8 18'56			16587 Feb 12 13:28	$0^{\circ}\Upsilon$	
evening set	16586 Apr 10 05:24	16° 8 57'48		evening max el	16587 Mar 02 21:23	24° Y 16'27	27°26'13
min. Earth dist.	16586 Apr 13 23:46	13° 8 47'21	0.63175 AU		16587 Mar 10 13:55	0°8	
inferior conj	16586 Apr 16 20:38	10° 8 55'10	-0°10'10	retrograde	16587 Mar 16 21:50	1° 8 40'21	
minimum elong	16586 Apr 16 20:58	10° 8 54'20	0°10'23		16587 Mar 22 22:55	30° ₹ Υ	
transit middle	16586 Apr 16 20:58	10° 8 54'20	0°10'23	evening set	16587 Mar 23 15:47	29° Y 35'36	
transit begin	16586 Apr 16 18:32	11° 8 00'27		min. Earth dist.	16587 Mar 27 11:15	26° Ƴ 46'31	0.60950 AU
transit end	16586 Apr 16 23:23	10° 8 48'15		inferior conj	16587 Mar 30 15:41	23° Y ′58′22	-1°29'03
asc. node	16586 Apr 17 09:31	10° 8 22'57		minimum elong	16587 Mar 30 18:56	23° Y 51'11	1°27'56
morning rise	16586 Apr 23 15:12	5° 8 42'13		asc. node	16587 Apr 04 06:45	20° Y 21′05	

morning rise	16587 Apr 07 01:30	19° Ƴ 04'03		asc. node	16588 Mar 21 04:00	1° Y 35'40	
direct	16587 Apr 09 04:30	18° Ƴ 45′05		direct	16588 Mar 21 17:33	1° Y '34'31	
morning max el	16587 Apr 16 04:29	22° Y 15'27	17°53'22	morning max el	16588 Mar 29 16:01	5° Y 30'09	18°19'52
	16587 Apr 22 04:46	9° 8		morning set	16588 Apr 14 09:26	0° 8 32'30	
morning set	16587 May 01 19:40	16° 8 36'47			16588 Apr 14 02:34	$0^{\circ}S$	
desc. node	16587 May 06 20:05	25° 8 39'20		desc. node	16588 Apr 22 16:56	16° 8 09'30	
	16587 May 09 06:51	Π °0					
				superior conj	16588 Apr 23 19:52	18° 8 12'33	
superior conj	16587 May 12 14:34	5° Ⅱ 47'19	-0°46'20	minimum elong	16588 Apr 23 19:08	18° 8 09'10	0°09'41
minimum elong	16587 May 12 10:29	5° Ⅱ 29'43		behind sun begin	16588 Apr 23 13:14	17° 8 42'18	
max. Earth dist.	16587 May 19 23:42	18° Ⅱ 10'58	1.43097 AU	behind sun end	16588 Apr 24 01:02	18° 8 35'59	
evening rise	16587 May 26 06:35	28° Ⅱ 15'49			16588 Apr 30 11:54	0°П	
	16587 May 27 09:11	0ಂ ತಾ		max. Earth dist.	16588 May 01 09:20	1° Ⅱ 31'36	1.41026 AU
	16587 Jun 16 20:26	0° Ω		evening rise	16588 May 05 21:36	9° Ⅱ 03'43	
evening max el	16587 Jun 27 09:44	12° Ω 44'59	21°53'10		16588 May 19 09:26	0°95	22012151
asc. node	16587 Jul 01 05:24	16° Ω 02'55		evening max el	16588 Jun 09 01:08	26°540'01	23°13'51
retrograde	16587 Jul 06 16:35	18° Ω 09'38		,	16588 Jun 12 19:39	0°N	
evening set	16587 Jul 11 08:38 16587 Jul 16 14:17	16° Ω 13'04 9° Ω 56'16	2007110	asc. node	16588 Jun 17 02:21	2° Ω 23'59 2° Ω 49'12	
inferior conj	16587 Jul 16 14:17 16587 Jul 16 13:57	9° Ω 57'23	3°07'18 3°06'47	retrograde evening set	16588 Jun 19 12:46 16588 Jun 24 16:24	0° Ω 37'37	
minimum elong min. Earth dist.	16587 Jul 16 16:02	9° Ω 50'06	0.69132 AU	evening set	16588 Jun 25 08:42	0 8€3/3/ 30°RS	
morning rise	16587 Jul 21 19:06	3° Ω 39'43	0.09132 AU	min. Earth dist.	16588 Jun 29 13:00	24°951'50	0.69114 AU
direct	16587 Jul 26 14:52	1° Ω 37'02		inferior conj	16588 Jun 30 00:16	24°S12'52	
desc. node	16587 Aug 02 19:04	5°Ω00'44		minimum elong	16588 Jun 29 23:04	24°S17'00	
morning max el	16587 Aug 05 05:26		22°16'24	morning rise	16588 Jul 05 05:41	18°904'15	2 37 33
morning max cr	16587 Aug 22 20:52	0° mp	22 1024	direct	16588 Jul 09 13:25	16°520'13	
morning set	16587 Sep 07 08:25	23° m 41'39		morning max el	16588 Jul 17 23:02	21°909'15	20°54'28
morning sec	16587 Sep 11 05:06	0∘ ʊ		desc. node	16588 Jul 19 16:17	22°957'22	20 0 . 20
max. Earth dist.	16587 Sep 12 14:42	2° Ω 19'45	1.41339 AU		16588 Jul 25 10:43	0° Ω	
					16588 Aug 15 01:31	0° m)	
superior conj	16587 Sep 20 10:52	15° Ω 50'50	-0°56'46	morning set	16588 Aug 17 01:54	3° m) 07'06	
minimum elong	16587 Sep 20 15:29	16° Ω 11'23	0°55'56	max. Earth dist.	16588 Aug 24 22:17	15° m/32'53	1.43421 AU
asc. node	16587 Sep 27 06:08	28° ≙ 13'01				•	
	16587 Sep 28 05:11	0° M		superior conj	16588 Aug 31 20:36	26° m 57'46	-1°32'40
evening rise	16587 Sep 30 18:47	4° M 47'09		minimum elong	16588 Sep 01 04:07	27° m 29'21	1°31'52
	16587 Oct 16 10:45	0° ∡			16588 Sep 02 15:45	0∘ ⊽	
evening max el	16587 Oct 16 16:22	0° ∡ 14'15	18°16'21	evening rise	16588 Sep 12 19:08	17° ≏ 40'44	
retrograde	16587 Oct 24 02:28	4° ∡ °01'35		asc. node	16588 Sep 13 02:54	18° ≏ 15'11	
evening set	16587 Oct 26 03:58	3° х⁴ 44'39			16588 Sep 19 20:08	0° M	
desc. node	16587 Oct 29 16:38	2° х 05'45		evening max el	16588 Sep 29 04:55	13°M15'34	18°01'44
	16587 Nov 01 12:57	30°RM		retrograde	16588 Oct 05 21:28	16°M42'48	
inferior conj	16587 Nov 02 16:28	29°M03'10		evening set	16588 Oct 08 06:13	16° M 16'48	
minimum elong	16587 Nov 02 13:34	29°M09'14		inferior conj	16588 Oct 15 01:56	11°ML15'19	0°09'22
min. Earth dist.	16587 Nov 05 22:26	26°M20'53	0.58731 AU	minimum elong	16588 Oct 15 02:14	11°M.14'34	0°09'35
morning rise	16587 Nov 09 19:43	23°M39'04		transit middle	16588 Oct 15 02:14	11°M14'34	0°09'35
direct	16587 Nov 16 06:25	21°M48'04	27020145	transit begin	16588 Oct 14 23:37	11°M20'54	
morning max el	16587 Nov 30 13:15	29°M27'00	27°28'45	transit end desc. node	16588 Oct 15 04:51	11°M08'14	
	16587 Dec 01 02:38 16587 Dec 22 04:10	0°る		min. Earth dist.	16588 Oct 15 13:51 16588 Oct 18 03:53	10°M46'26 8°M17'55	0.61018 AU
asc. node	16587 Dec 24 06:10	3°る50'52		morning rise	16588 Oct 21 19:15	5°M21'57	0.01018 AC
morning set	16587 Dec 31 17:43	18° ප 54'32		direct	16588 Oct 28 11:35	3°ML07'57	
morning set	16588 Jan 05 19:17	0°≈		morning max el	16588 Nov 11 16:29	11°M00'56	27°58'04
	10300 3411 03 17.17	0 /0.		morning max ci	16588 Nov 26 14:15	0° ₹	27 30 04
superior conj	16588 Jan 07 14:55	4° ≈ 04'11	1°36'58	asc. node	16588 Dec 10 03:14	23° x 26'49	
minimum elong	16588 Jan 07 14:13	4°≈00'20	1°37'29		16588 Dec 13 10:05	0°ਰ	
max. Earth dist.	16588 Jan 07 08:53	3°≈30'25	1.30956 AU	morning set	16588 Dec 14 20:36	2° ප 58'14	
evening rise	16588 Jan 14 09:01	19° ≈ 00′22		max. Earth dist.	16588 Dec 20 14:51	15° る 23'39	1.31197 AU
Č	16588 Jan 19 16:56	0°) {					
desc. node	16588 Jan 25 16:01	11°) €03'01		superior conj	16588 Dec 22 01:32	18° පි 36'06	1°29'59
	16588 Feb 07 11:48	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	16588 Dec 21 23:55	18° පි 27'07	1°30'26
evening max el	16588 Feb 12 22:51	5° Y 55'08	26°41'14	-	16588 Dec 27 04:36	0° ≈	
retrograde	16588 Feb 26 23:38	13° Y 08'11		evening rise	16588 Dec 28 18:07	3° ≈ 24'44	
evening set	16588 Mar 04 09:27	11° Y 26'26		desc. node	16589 Jan 11 12:51	29° ≈ 44'21	
min. Earth dist.	16588 Mar 08 12:35	8° Y 48'01	0.58683 AU		16589 Jan 11 16:45	0°) €	
inferior conj	16588 Mar 11 17:20	6° Y 21′21		evening max el	16589 Jan 24 16:06	16° 米 41′16	25°23'44
minimum elong	16588 Mar 12 00:16	6° Y 08'04	2°56'23	retrograde	16589 Feb 07 13:23	23° ¥ 39′57	
morning rise	16588 Mar 19 18:40	1° Ƴ 48'02		evening set	16589 Feb 13 06:49	22°) €25'31	

min. Earth dist.	16589 Feb 18 04:52	19°¥43'22	0.56643 AU		16590 Jan 29 21:36	30°R ≈	
inferior conj	16589 Feb 20 22:24	17°) 54'44		min. Earth dist.	16590 Jan 30 14:07	29°≈36'10	0.55130 AU
minimum elong	16589 Feb 21 07:51	17°) 39'02		inferior conj	16590 Feb 01 06:42	28°≈36'29	
morning rise	16589 Mar 01 11:42	13°) (33'02	7 2033	minimum elong	16590 Feb 01 13:48	28°≈26'01	5°38'06
direct	16589 Mar 03 12:13	13° ¥ 30′29		morning rise	16590 Feb 09 23:22	24°≈41'41	2 30 00
asc. node	16589 Mar 08 01:18	14° H 35'18		direct	16590 Feb 12 11:44	24°≈25'57	
morning max el	16589 Mar 12 18:26	18°) 02'22	19°07'38	asc. node	16590 Feb 22 22:35	29°≈19'43	
morning max er	16589 Mar 21 11:08	0°Υ	17 07 50	morning max el	16590 Feb 23 07:34	29° ≈ 41'10	20°18'27
morning set	16589 Mar 29 09:09	14° Υ 53'12		morning max or	16590 Feb 23 15:14	0° ∀	20 1027
morning sec	16589 Apr 06 01:20	0°8		morning set	16590 Mar 13 15:24	29° ∺ 29'00	
	1030) Apr 00 01.20	٥ ٠		morning set	16590 Mar 13 21:27	0° Υ	
superior conj	16589 Apr 06 18:47	1° 8 23'56	0°23'37		10370 With 13 21.27	0 1	
minimum elong	16589 Apr 06 20:13	1° 8 30'48	0°23'06	superior conj	16590 Mar 21 07:02	15° Y 10'06	0°51'01
desc. node	16589 Apr 09 13:45	6° 8 41'15	0 23 00	minimum elong	16590 Mar 21 09:26	15° Υ 22'10	0°50'31
max. Earth dist.	16589 Apr 13 15:33	14° 8 09'13	1.38742 AU	max. Earth dist.	16590 Mar 26 22:40	26° Y 14'57	1.36488 AU
evening rise	16589 Apr 17 09:55	20° 8 46'25	1.36/42 AU	desc. node	16590 Mar 27 10:31	20 γ 14 37 27° Υ 11'05	1.30488 AC
evening rise	16589 Apr 22 22:09	0°II		desc. flode	16590 Mar 28 22:35	0°8	
	16589 May 13 10:17	0°9				3° 8 16'15	
			24924154	evening rise	16590 Mar 30 17:18	0°II	
evening max el	16589 May 22 14:50	10°535'51	24°34'54		16590 Apr 15 22:28		25040104
retrograde	16589 Jun 03 05:28	17°522'39		evening max el	16590 May 05 04:29	24° Ⅱ 29'47	25°49'04
asc. node	16589 Jun 03 23:21	17°520'20			16590 May 12 02:29	0°©	
evening set	16589 Jun 08 20:36	14°959'19		retrograde	16590 May 17 17:34	1°5643'13	
min. Earth dist.	16589 Jun 13 08:30	9° © 50'57	0.68609 AU	asc. node	16590 May 21 20:24	0° © 35'22	
inferior conj	16589 Jun 14 08:48	8° © 29'40	2°38'43		16590 May 22 18:50	30°Ŗ Ⅱ	
minimum elong	16589 Jun 14 06:55	8° © 35'58	2°37'46	evening set	16590 May 23 19:33	29° Ⅱ 12'25	
morning rise	16589 Jun 19 17:22	2° © 30'24		min. Earth dist.	16590 May 28 00:21	24° Ⅱ 40'49	0.67627 AU
direct	16589 Jun 23 13:37	1° © 05'46		inferior conj	16590 May 29 13:49	22° Ⅱ 42'08	2°08'04
morning max el	16589 Jun 30 23:16	5° © 12'27	19°44'31	minimum elong	16590 May 29 11:37	22° Ⅱ 49'06	2°06'54
desc. node	16589 Jul 06 13:28	11° © 42'28		morning rise	16590 Jun 04 04:17	16° Ⅱ 53'36	
	16589 Jul 19 08:17	0 \circ Ω		direct	16590 Jun 07 13:44	15° Ⅱ 47'46	
morning set	16589 Jul 27 06:42	12° Ω 02'54		morning max el	16590 Jun 14 06:40	19° Ⅲ 24′04	18°49'45
max. Earth dist.	16589 Aug 07 12:13	29° Ω 30′24	1.44984 AU		16590 Jun 22 17:06	0°€	
	16589 Aug 07 19:43	0° m		desc. node	16590 Jun 23 10:35	1° 5 03'18	
				greatest brilliancy	16590 Jun 27 21:55	7°9344'00	-0.8m
superior conj	16589 Aug 12 06:53	7° Mp 06′44	-2°01'00	morning set	16590 Jul 06 17:54	21° © 21'17	
minimum elong	16589 Aug 12 14:07	7° m 35'47	2°00'48		16590 Jul 12 07:31	$0^{\circ}\Omega$	
evening rise	16589 Aug 26 00:23	29° m 44'24		max. Earth dist.	16590 Jul 21 07:09	13° Ω 58'55	1.45872 AU
	16589 Aug 26 04:05	0∘ ⊽					
asc. node	16589 Aug 30 23:39	8° ჲ 05'44		superior conj	16590 Jul 22 22:05	16° Ω 31'02	-2°14'10
evening max el	16589 Sep 12 19:54	26° ≏ 41'48	18°05'53	minimum elong	16590 Jul 22 23:32	16° Ω 36'42	2°14'35
-	16589 Sep 18 12:57	0° M .		•	16590 Jul 31 11:35	o∘ m y	
retrograde	16589 Sep 19 04:53	0°M02'19		evening rise	16590 Aug 07 05:45	10° m 47'16	
C	16589 Sep 19 20:47	30° ₽ Ω		asc. node	16590 Aug 17 20:24	27° m/39'38	
evening set	16589 Sep 21 22:08	29° Ω 23'43			16590 Aug 19 09:21	0∘ <u>v</u>	
inferior conj	16589 Sep 28 03:37	24° £ 04'25	1°17'11	evening max el	16590 Aug 27 09:54	10° ≏ 24'03	18°27'45
minimum elong	16589 Sep 28 05:32	23° Ω 59'12	1°16'44	retrograde	16590 Sep 02 20:32	13° ჲ 51'08	
min. Earth dist.	16589 Sep 30 19:18	21° Ω 11'55	0.63264 AU	evening set	16590 Sep 05 22:55	12° ≏ 57'11	
desc. node	16589 Oct 02 11:06	19° Ω 32'45		inferior conj	16590 Sep 11 17:36	7° ჲ 22'23	2°06'42
morning rise	16589 Oct 04 10:49	17° ≏ 51'33		minimum elong	16590 Sep 11 19:54	7° ≏ 15'28	2°06'06
direct	16589 Oct 11 02:37	15° £ 22'04		min. Earth dist.	16590 Sep 13 20:07	4° ഫ 51'13	0.65282 AU
morning max el	16589 Oct 25 00:56	23° Ω 19'56	27°48'48	morning rise	16590 Sep 17 15:33	0° £ 58'46	0.00202110
morning man er	16589 Oct 31 00:11	0°M	27 10 10	morning rise	16590 Sep 18 23:29	30°R, Mp	
	16589 Nov 19 21:34	0° ∡ 7		desc. node	16590 Sep 19 08:23	29° m 46'04	
asc. node	16589 Nov 27 00:15	13° ∡ 19'43		direct	16590 Sep 24 01:51	28° m) 22'29	
morning set	16589 Nov 28 16:14	16° ₹ 39'25		direct	16590 Sep 29 16:23	0° ت	
max. Earth dist.	16589 Dec 03 15:36	27° ₹ 01'10	1.32009 AU	morning max el	16590 Oct 07 12:03	ა _ 6° ჲ 13'58	27°06'13
max. Earth dist.	16589 Dec 05 00:48	0°පි	1.52007 110	morning max cr	16590 Oct 25 19:21	0°M	27 00 15
	10307 DCC 03 00.40	υ Ο		morning set	16590 Nov 12 01:48	29°M50'45	
superior conj	16589 Dec 06 09:24	2° る 57'22	1°16'50	morning set	16590 Nov 12 01:48 16590 Nov 12 03:42	29 IIL3043 0° √	
minimum elong	16589 Dec 06 07:10	2°る45'08	1°17'08	asc. node	16590 Nov 12 03:42 16590 Nov 13 21:10	3° ∡ ¹23'14	
evening rise	16589 Dec 13 04:47	2 34308 17° る 51'58	1 1/00	max. Earth dist.	16590 Nov 16 07:51	3 x ·23 14 8° x 18'17	1.33393 AU
evening rise		0°≈		max. Darui Uist.	10.30 NOV 10 U/.31	o X:101/	1.33373 AU
desc. node	16589 Dec 19 01:26 16589 Dec 29 09:44	0°≈ 17°≈35'23		superior con-	16590 Nov 20 12:14	17° ∡ '01'05	0°57'25
			2304442	superior conj		1/° x '01'05 16° x '48'35	0°57'25 0°57'35
evening max el	16590 Jan 06 02:44	26°≈47'37	23°44'42	minimum elong	16590 Nov 20 09:53		0 3/33
notes J	16590 Jan 09 22:55	0°)(2°¥26!52		ov.on:	16590 Nov 26 13:33	0°る 2° る 16!24	
retrograde	16590 Jan 19 13:15	3°¥26′52		evening rise	16590 Nov 27 15:07	2°る16'24	
evening set	16590 Jan 24 05:46	2° ∺ 39'20			16590 Dec 12 21:07	0° ≈	

daga mada	16590 Dec 16 06:40	490017!10		ratra arada	16501 Dec. 11, 11,40	22° る 35'23	
desc. node		4°≈17'19	22001127	retrograde	16591 Dec 11 11:49		
evening max el	16590 Dec 18 13:37	6°≈43'01	22°01'37	evening set	16591 Dec 13 20:56	22°る21'17	5000155
retrograde	16590 Dec 31 01:33	12°≈53'36		inferior conj	16591 Dec 22 15:36	18°る27'38	
evening set	16591 Jan 03 11:46	12° ≈ 27′29		minimum elong	16591 Dec 22 06:38	18° る 40'42	
inferior conj	16591 Jan 12 00:02	8° ≈ 37'06		min. Earth dist.	16591 Dec 24 00:46	17° る 39'15	0.54598 AU
minimum elong	16591 Jan 11 22:35	8° ≈ 39'07	6°01'29	morning rise	16591 Dec 30 16:00	14° る 29'10	
min. Earth dist.	16591 Jan 11 19:23	8° ≈ 43'35	0.54397 AU	direct	16592 Jan 04 05:29	13° る 44'19	
morning rise	16591 Jan 20 10:13	4° ≈ 49'42		morning max el	16592 Jan 17 16:08	20° る 20'43	23°40'18
direct	16591 Jan 23 21:17	4° ≈ 23'15			16592 Jan 25 18:04	0° ≈	
morning max el	16591 Feb 05 05:28	10° ≈ 21'59	21°51'49	asc. node	16592 Jan 27 17:06	2° ≈ 54'28	
asc. node	16591 Feb 09 19:52	15° ≈ 32'18		morning set	16592 Feb 10 13:19	28°≈54'20	
	16591 Feb 18 23:11	0°) €		5 8 4 4 4	16592 Feb 11 01:33	0°) €	
morning set	16591 Feb 26 01:30	14° ₩ 11'25			10372100 11 01.55	٠,٨	
morning set	10371100 20 01.50	14 /(1123		superior conj	16592 Feb 17 09:32	13° ¥ 46'44	1°27'02
:	16501 Mar 05 04.56	2001/20124	1012111			13° X 56'53	1°27'05
superior conj	16591 Mar 05 04:56	29° ¥ 20′24	1°12'11	minimum elong	16592 Feb 17 11:24		
minimum elong	16591 Mar 05 07:22	29°) 33′11	1°11'54	max. Earth dist.	16592 Feb 20 06:12	19° ¥ 55'06	1.32838 AU
	16591 Mar 05 12:29	0° Υ		evening rise	16592 Feb 25 03:12	29° ¥ 58'11	
max. Earth dist.	16591 Mar 09 10:49	8° Ƴ 05'09	1.34469 AU		16592 Feb 25 03:34	0° Y	
evening rise	16591 Mar 13 16:11	16° Ƴ 22'57		desc. node	16592 Feb 29 03:58	7° Ƴ 47'43	
desc. node	16591 Mar 14 07:15	17° Ƴ 34'38			16592 Mar 13 05:32	0° 8	
	16591 Mar 21 04:06	8° 0		evening max el	16592 Mar 30 07:14	21° 8 38'20	27°26'54
	16591 Apr 10 08:48	$\Pi^{\circ}0$		retrograde	16592 Apr 13 00:28	29° 8 12'03	
evening max el	16591 Apr 17 18:13	8° Ⅱ 13'58	26°48'53	evening set	16592 Apr 19 17:48	26° 8 44'17	
retrograde	16591 May 01 00:10	15° Ⅱ 42'48	20 40 33	min. Earth dist.	16592 Apr 23 13:04	23° 8 18'33	0.64362 AU
•	•						0.04302 AU
evening set	16591 May 07 11:21	13° Ⅱ 10′04		asc. node	16592 Apr 24 14:42	22° 8 11'02	
asc. node	16591 May 08 17:32	12° Ⅱ 04'33		inferior conj	16592 Apr 26 03:58	20° 8 30'47	0°28'51
min. Earth dist.	16591 May 11 10:30	9° Ⅱ 13'13	0.66191 AU	minimum elong	16592 Apr 26 03:09	20° 8 32'58	0°28'07
inferior conj	16591 May 13 13:05	6° Ⅱ 44'41	1°25'14	morning rise	16592 May 02 14:43	15° 8 08'53	
minimum elong	16591 May 13 11:10	6° Ⅱ 50′22	1°24'04	direct	16592 May 05 05:04	14° 8 34'22	
morning rise	16591 May 19 12:16	1° Ⅱ 08'30		morning max el	16592 May 11 12:53	17° 8 48'50	17°50'30
direct	16591 May 22 11:43	0° Ⅱ 19'41			16592 May 20 13:27	$\Pi^{\circ}0$	
morning max el	16591 May 28 19:59	3° Ⅱ 38'46	18°11'36	desc. node	16592 May 27 04:36	10° Ⅲ 55'50	
desc. node	16591 Jun 10 07:38	20° I I50'15		morning set	16592 May 28 16:32	13° Ⅲ 26′27	
desc. node				morning sec		0°95	
					16507 Jun 11/ 16:/11		
morning sat	16591 Jun 16 01:21	0°99			16592 Jun 07 16:40	0 3	
morning set	16591 Jun 17 03:41	1°9545'34					1942159
	16591 Jun 17 03:41	1°5945'34	2007/25	superior conj	16592 Jun 11 04:04	5°536'29	
superior conj	16591 Jun 17 03:41 16591 Jul 02 07:36	1°5945'34 25°5946'48		minimum elong	16592 Jun 11 04:04 16592 Jun 10 19:34	5° © 36'29 5° © 02'23	1°42'44
	16591 Jun 17 03:41	1°5945'34	-2°07'25 2°07'42	1 3	16592 Jun 11 04:04	5°\$36'29 5°\$02'23 13°\$15'11	
superior conj	16591 Jun 17 03:41 16591 Jul 02 07:36	1°545'34 25°546'48 25°523'23		minimum elong	16592 Jun 11 04:04 16592 Jun 10 19:34	5° © 36'29 5° © 02'23	1°42'44
superior conj minimum elong	16591 Jun 17 03:41 16591 Jul 02 07:36 16591 Jul 02 01:36	1°545'34 25°546'48 25°523'23	2°07'42	minimum elong max. Earth dist.	16592 Jun 11 04:04 16592 Jun 10 19:34 16592 Jun 15 23:35	5°\$36'29 5°\$02'23 13°\$15'11	1°42'44
superior conj minimum elong	16591 Jun 17 03:41 16591 Jul 02 07:36 16591 Jul 02 01:36 16591 Jul 04 03:56	1°\$45'34 25°\$46'48 25°\$23'23 28°\$39'52	2°07'42	minimum elong max. Earth dist.	16592 Jun 11 04:04 16592 Jun 10 19:34 16592 Jun 15 23:35 16592 Jun 26 22:57	5°\$36'29 5°\$02'23 13°\$15'11 0°\$\Omega\$15'37	1°42'44 1.45388 AU
superior conj minimum elong max. Earth dist.	16591 Jun 17 03:41 16591 Jul 02 07:36 16591 Jul 02 01:36 16591 Jul 04 03:56 16591 Jul 05 00:30	1°\$45'34 25°\$46'48 25°\$23'23 28°\$39'52 0°\$\$	2°07'42	minimum elong max. Earth dist. evening rise	16592 Jun 11 04:04 16592 Jun 10 19:34 16592 Jun 15 23:35 16592 Jun 26 22:57 16592 Jun 26 18:52	5°\$36'29 5°\$02'23 13°\$15'11 0°\$\Omega\$15'37	1°42'44 1.45388 AU
superior conj minimum elong max. Earth dist. evening rise	16591 Jun 17 03:41 16591 Jul 02 07:36 16591 Jul 02 01:36 16591 Jul 04 03:56 16591 Jul 05 00:30 16591 Jul 18 10:34 16591 Jul 24 08:49	1°\$45'34 25°\$46'48 25°\$23'23 28°\$39'52 0°\$Ω 20°\$\Omega\$50'02 0°\$\mathbf{m}\$	2°07'42 1.46003 AU	minimum elong max. Earth dist. evening rise	16592 Jun 11 04:04 16592 Jun 10 19:34 16592 Jun 15 23:35 16592 Jun 26 22:57 16592 Jun 26 18:52 16592 Jul 11 17:58 16592 Jul 17 04:47	5°\$36'29 5°\$02'23 13°\$15'11 0°\$15'37 0°\$1 22°\$23'05 0°\$7	1°42'44 1.45388 AU
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	16591 Jun 17 03:41 16591 Jul 02 07:36 16591 Jul 02 01:36 16591 Jul 04 03:56 16591 Jul 05 00:30 16591 Jul 18 10:34 16591 Jul 24 08:49 16591 Jul 29 14:17	1°\$45'34 25°\$46'48 25°\$23'23 28°\$39'52 0°\$\Omega\$ 20°\$\Omega\$50'02 0°\$\mathrm{m}\$58'31	2°07'42	minimum elong max. Earth dist. evening rise greatest brilliancy asc. node	16592 Jun 11 04:04 16592 Jun 10 19:34 16592 Jun 15 23:35 16592 Jun 26 22:57 16592 Jun 26 18:52 16592 Jul 11 17:58 16592 Jul 17 04:47 16592 Jul 21 13:57	5°\$36'29 5°\$02'23 13°\$15'11 0°\$15'37 0°\$1 22°\$123'05 0°\$1 5°\$130'31	1°42'44 1.45388 AU -0.6m
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node	16591 Jun 17 03:41 16591 Jul 02 07:36 16591 Jul 02 01:36 16591 Jul 04 03:56 16591 Jul 05 00:30 16591 Jul 18 10:34 16591 Jul 24 08:49 16591 Jul 29 14:17 16591 Aug 04 17:10	1°\$45'34 25°\$46'48 25°\$23'23 28°\$39'52 0°\$\Omega\$200'\Omega\$200'\Omega\$70'02 0°\$\Omega\$70'\Omega\$58'31 16°\$\Omega\$50'53	2°07'42 1.46003 AU -0.7m	minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el	16592 Jun 11 04:04 16592 Jun 10 19:34 16592 Jun 15 23:35 16592 Jun 26 22:57 16592 Jun 26 18:52 16592 Jul 11 17:58 16592 Jul 17 04:47 16592 Jul 21 13:57 16592 Jul 24 01:03	5°\$36'29 5°\$02'23 13°\$15'11 0°\$\Omega\$15'37 0°\$\Omega\$22°\$\Omega\$23'05 0°\$\Omega\$5°\$\Omega\$30'31 8°\$\Omega\$10'07	1°42'44 1.45388 AU
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el	16591 Jun 17 03:41 16591 Jul 02 07:36 16591 Jul 02 01:36 16591 Jul 04 03:56 16591 Jul 05 00:30 16591 Jul 18 10:34 16591 Jul 24 08:49 16591 Jul 29 14:17 16591 Aug 04 17:10 16591 Aug 10 20:15	1°\$45'34 25°\$46'48 25°\$23'23 28°\$39'52 0°\$\Omega\$ 20°\$\Omega\$50'02 0°\$\mathbf{m}\$50'53 24°\$\mathbf{m}\$15'33	2°07'42 1.46003 AU	minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde	16592 Jun 11 04:04 16592 Jun 10 19:34 16592 Jun 15 23:35 16592 Jun 26 22:57 16592 Jun 26 18:52 16592 Jul 11 17:58 16592 Jul 17 04:47 16592 Jul 21 13:57 16592 Jul 24 01:03 16592 Jul 31 15:58	5°\$36'29 5°\$02'23 13°\$15'11 0°\$15'37 0°\$1 22°\$123'05 0°\$10 5°\$10'30'31 8°\$10'07 12°\$10'28'23	1°42'44 1.45388 AU -0.6m
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde	16591 Jun 17 03:41 16591 Jul 02 07:36 16591 Jul 02 01:36 16591 Jul 04 03:56 16591 Jul 05 00:30 16591 Jul 18 10:34 16591 Jul 24 08:49 16591 Jul 29 14:17 16591 Aug 04 17:10 16591 Aug 10 20:15 16591 Aug 17 17:10	1°\$45'34 25°\$46'48 25°\$23'23 28°\$39'52 0°\$\Omega\$ 20°\$\Omega\$50'02 0°\$\mathbf{m}\$50'53 24°\$\mathbf{m}\$15'33 28°\$\mathbf{m}\$02'16	2°07'42 1.46003 AU -0.7m	minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set	16592 Jun 11 04:04 16592 Jun 10 19:34 16592 Jun 15 23:35 16592 Jun 26 22:57 16592 Jun 26 18:52 16592 Jul 11 17:58 16592 Jul 17 04:47 16592 Jul 21 13:57 16592 Jul 24 01:03 16592 Jul 31 15:58 16592 Aug 04 14:21	5°\$36'29 5°\$02'23 13°\$15'11 0°\$15'37 0°\$1 22°\$23'05 0°\$\$ 5°\$\$30'31 8°\$\$10'07 12°\$\$\$28'23 10°\$\$\$59'30	1°42'44 1.45388 AU -0.6m 20°01'17
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set	16591 Jun 17 03:41 16591 Jul 02 07:36 16591 Jul 02 01:36 16591 Jul 04 03:56 16591 Jul 05 00:30 16591 Jul 18 10:34 16591 Jul 24 08:49 16591 Jul 29 14:17 16591 Aug 10 20:15 16591 Aug 17 17:10 16591 Aug 21 05:12	1°\$45'34 25°\$46'48 25°\$23'23 28°\$39'52 0°\$\Omega\$ 20°\$\Omega\$50'02 0°\$\mathbf{m}\$50'53 24°\$\mathbf{m}\$15'33 28°\$\mathbf{m}\$02'16 26°\$\mathbf{m}\$51'17	2°07'42 1.46003 AU -0.7m 19°06'36	minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj	16592 Jun 11 04:04 16592 Jun 10 19:34 16592 Jun 15 23:35 16592 Jun 26 22:57 16592 Jun 26 18:52 16592 Jul 11 17:58 16592 Jul 17 04:47 16592 Jul 21 13:57 16592 Jul 24 01:03 16592 Jul 31 15:58 16592 Aug 04 14:21 16592 Aug 09 21:18	5°\$36'29 5°\$02'23 13°\$15'11 0°\$15'37 0°\$1 22°\$23'05 0°\$\$ 5°\$\$30'31 8°\$\$10'07 12°\$\$28'23 10°\$\$59'30 4°\$\$\$59'06	1°42'44 1.45388 AU -0.6m 20°01'17 2°59'54
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj	16591 Jun 17 03:41 16591 Jul 02 07:36 16591 Jul 02 01:36 16591 Jul 04 03:56 16591 Jul 05 00:30 16591 Jul 18 10:34 16591 Jul 24 08:49 16591 Jul 29 14:17 16591 Aug 04 17:10 16591 Aug 10 20:15 16591 Aug 17 17:10 16591 Aug 21 05:12 16591 Aug 26 16:27	1°\$45'34 25°\$46'48 25°\$23'23 28°\$39'52 0°\$\Omega\$200'\text{20}\text{250'02} 0°\$\text{m}\$7°\$\text{m}\$58'31 16°\$\text{m}\$50'53 24°\$\text{m}\$15'33 28°\$\text{m}\$02'16 26°\$\text{m}\$51'17 21°\$\text{m}\$02'53	2°07'42 1.46003 AU -0.7m 19°06'36 2°40'09	minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong	16592 Jun 11 04:04 16592 Jun 10 19:34 16592 Jun 15 23:35 16592 Jun 26 22:57 16592 Jun 26 18:52 16592 Jul 11 17:58 16592 Jul 17 04:47 16592 Jul 21 13:57 16592 Jul 24 01:03 16592 Jul 31 15:58 16592 Aug 04 14:21 16592 Aug 09 21:18 16592 Aug 09 22:27	5°\$36'29 5°\$02'23 13°\$15'11 0°\$15'37 0°\$1 22°\$23'05 0°\$1 5°\$130'31 8°\$10'07 12°\$128'23 10°\$159'30 4°\$159'06 4°\$155'11	1°42'44 1.45388 AU -0.6m 20°01'17 2°59'54 2°59'27
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong	16591 Jun 17 03:41 16591 Jul 02 07:36 16591 Jul 02 01:36 16591 Jul 04 03:56 16591 Jul 05 00:30 16591 Jul 18 10:34 16591 Jul 24 08:49 16591 Jul 29 14:17 16591 Aug 04 17:10 16591 Aug 10 20:15 16591 Aug 17 17:10 16591 Aug 21 05:12 16591 Aug 26 16:27 16591 Aug 26 18:23	1°\$45'34 25°\$46'48 25°\$23'23 28°\$39'52 0°\$Ω 20°\$\Omega_50'02 0°\$\mathbf{m}\$50'53 24°\$\mathbf{m}\$15'33 28°\$\mathbf{m}\$02'16 26°\$\mathbf{m}\$51'17 21°\$\mathbf{m}\$02'53 20°\$\mathbf{m}\$56'39	2°07'42 1.46003 AU -0.7m 19°06'36 2°40'09 2°39'37	minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj	16592 Jun 11 04:04 16592 Jun 10 19:34 16592 Jun 15 23:35 16592 Jun 26 22:57 16592 Jun 26 18:52 16592 Jul 11 17:58 16592 Jul 17 04:47 16592 Jul 21 13:57 16592 Jul 24 01:03 16592 Jul 31 15:58 16592 Aug 04 14:21 16592 Aug 09 21:18 16592 Aug 09 22:27 16592 Aug 10 20:10	5°\$36'29 5°\$02'23 13°\$15'11 0°\$15'37 0°\$1 22°\$23'05 0°\$1 5°\$130'31 8°\$10'07 12°\$128'23 10°\$159'30 4°\$159'06 4°\$155'11 3°\$141'34	1°42'44 1.45388 AU -0.6m 20°01'17 2°59'54
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj	16591 Jun 17 03:41 16591 Jul 02 07:36 16591 Jul 02 01:36 16591 Jul 04 03:56 16591 Jul 05 00:30 16591 Jul 18 10:34 16591 Jul 24 08:49 16591 Jul 29 14:17 16591 Aug 04 17:10 16591 Aug 10 20:15 16591 Aug 17 17:10 16591 Aug 21 05:12 16591 Aug 26 16:27	1°\$45'34 25°\$46'48 25°\$23'23 28°\$39'52 0°\$\Omega\$ 20°\$\Omega\$50'02 0°\$\mathred{m}\$50'53 24°\$\mathred{m}\$15'33 28°\$\mathred{m}\$21'16 26°\$\mathred{m}\$51'17 21°\$\mathred{m}\$02'53 20°\$\mathred{m}\$56'39 19°\$\mathred{m}\$04'47	2°07'42 1.46003 AU -0.7m 19°06'36 2°40'09	minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong	16592 Jun 11 04:04 16592 Jun 10 19:34 16592 Jun 15 23:35 16592 Jun 26 22:57 16592 Jun 26 18:52 16592 Jul 11 17:58 16592 Jul 17 04:47 16592 Jul 21 13:57 16592 Jul 24 01:03 16592 Jul 31 15:58 16592 Aug 04 14:21 16592 Aug 09 21:18 16592 Aug 09 22:27	5°\$36'29 5°\$02'23 13°\$15'11 0°\$15'37 0°\$1 22°\$22'05 0°\$\$ 5°\$\$30'31 8°\$\$\$10'07 12°\$\$\$28'23 10°\$\$\$59'30 4°\$\$\$59'30 4°\$\$\$59'11 3°\$\$\$41'34 30°\$\$\$\$\$\$\$\$\$\$\$\$\$	1°42'44 1.45388 AU -0.6m 20°01'17 2°59'54 2°59'27
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superior conj 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 desc. node direct morning max el morning set max. Earth dist. asc. node	16591 Jun 17 03:41 16591 Jul 02 07:36 16591 Jul 04 03:56 16591 Jul 05 00:30 16591 Jul 18 10:34 16591 Jul 24 08:49 16591 Jul 29 14:17 16591 Aug 04 17:10 16591 Aug 10 20:15 16591 Aug 17 17:10 16591 Aug 26 16:27 16591 Aug 26 16:27 16591 Aug 28 05:05 16591 Aug 28 05:05 16591 Sep 01 06:48 16591 Sep 06 05:39 16591 Sep 07 08:17 16591 Sep 19 23:42 16591 Sep 28 22:33 16591 Oct 31 18:03 16591 Oct 31 18:03 16591 Nov 04 07:30 16591 Nov 04 07:30	1°\$\times45'34\\ 25°\$\times46'48\\ 25°\$\times23'23\\ 28°\$\times39'52\\ 0°\$\tall\$\tau\$\times50'02\\ 0°\$\times50'53\\ 24°\$\times50'53\\ 24°\$\times50'53\\ 24°\$\times50'53\\ 24°\$\times50'53\\ 24°\$\times50'53\\ 24°\$\times50'35\\ 20°\$\times56'39\\ 19°\$\times05'30\\ 12°\$\times05'30\\ 12°\$\times505'30\\	2°07'42 1.46003 AU -0.7m 19°06'36 2°40'09 2°39'37 0.66940 AU 25°58'40 1.35294 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. superior conj minimum elong behind sun begin	16592 Jun 11 04:04 16592 Jun 10 19:34 16592 Jun 15 23:35 16592 Jun 26 22:57 16592 Jun 26 18:52 16592 Jul 11 17:58 16592 Jul 17 04:47 16592 Jul 21 13:57 16592 Jul 24 01:03 16592 Jul 31 15:58 16592 Aug 04 14:21 16592 Aug 09 21:18 16592 Aug 09 22:27 16592 Aug 10 20:10 16592 Aug 13 19:16 16592 Aug 15 06:07 16592 Aug 20 20:47 16592 Aug 20 20:47 16592 Aug 20 20:47 16592 Aug 20 3:46 16592 Sep 01 10:48 16592 Sep 02 10:51 16592 Oct 17 00:54 16592 Oct 17 15:57 16592 Oct 17 15:57 16592 Oct 17 15:54 16592 Oct 17 15:54	5°\$36'29 5°\$02'23 13°\$15'11 0°\$\Omega\$15'37 0°\$\Omega\$22'\Omega\$23'05 0°\$\Omega\$30'31 8°\$\Omega\$10'07 12°\$\Omega\$2'23 10°\$\Omega\$59'30 4°\$\Omega\$59'11 3°\$\Omega\$41'34 30°\$\Omega\$28'\Omega\$33'23 26°\$\Omega\$06'46 26°\$\Omega\$27'11 0°\$\Omega\$3'\Omega\$24'\Omega\$16'06 0°\$\Omega\$13°\$\Omega\$5'09 13°\$\Omega\$51'27 13°\$\Omega\$51'11 13°\$\Omega\$18'45	1°42'44 1.45388 AU -0.6m 20°01'17 2°59'54 2°59'27 0.68167 AU 24°35'39 1.37573 AU 0°00'25
superior conj 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 desc. node direct morning max el morning set max. Earth dist. asc. node	16591 Jun 17 03:41 16591 Jul 02 07:36 16591 Jul 04 03:56 16591 Jul 05 00:30 16591 Jul 18 10:34 16591 Jul 24 08:49 16591 Jul 29 14:17 16591 Aug 04 17:10 16591 Aug 10 20:15 16591 Aug 17 17:10 16591 Aug 26 16:27 16591 Aug 26 16:27 16591 Aug 28 05:05 16591 Aug 28 05:05 16591 Sep 01 06:48 16591 Sep 06 05:39 16591 Sep 07 08:17 16591 Sep 19 23:42 16591 Sep 28 22:33 16591 Oct 18 21:12 16591 Oct 25 22:00 16591 Oct 29 14:31 16591 Nov 04 07:30 16591 Nov 04 07:30 16591 Nov 04 07:30 16591 Nov 04 07:31 16591 Nov 04 07:31 16591 Nov 04 07:31	1°\$45'34 25°\$46'48 25°\$23'23 28°\$39'52 0°\$\Pi\$ 20°\$\Pi\$50'02 0°\$\Pi\$ 7°\$\Pi\$58'31 16°\$\Pi\$50'53 24°\$\Pi\$15'33 28°\$\Pi\$02'16 26°\$\Pi\$51'17 21°\$\Pi\$02'53 20°\$\Pi\$56'39 19°\$\Pi\$04'47 14°\$\Pi\$35'37 12°\$\Pi\$00'39 19°\$\Pi\$01'59 0°\$\Pi\$ 0°\$\Pi\$ 12°\$\Pi\$26'02 19°\$\Pi\$22'42 23°\$\Pi\$33'27 0°\$\Pi\$32'56 16°\$\Pi\$34'04 0°\$\Pi\$	2°07'42 1.46003 AU -0.7m 19°06'36 2°40'09 2°39'37 0.66940 AU 25°58'40 1.35294 AU 0°31'46 0°31'56	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	16592 Jun 11 04:04 16592 Jun 10 19:34 16592 Jun 15 23:35 16592 Jun 26 22:57 16592 Jun 26 18:52 16592 Jul 11 17:58 16592 Jul 17 04:47 16592 Jul 21 13:57 16592 Jul 24 01:03 16592 Jul 31 15:58 16592 Aug 04 14:21 16592 Aug 09 21:18 16592 Aug 10 20:10 16592 Aug 10 20:10 16592 Aug 15 06:07 16592 Aug 20 20:47 16592 Aug 20 20:47 16592 Aug 20 20:47 16592 Aug 20 20:47 16592 Aug 20 03:46 16592 Aug 20 03:46 16592 Sep 01 10:48 16592 Sep 01 10:48 16592 Sep 02 01:51 16592 Oct 17 00:54 16592 Oct 17 15:57 16592 Oct 17 15:57 16592 Oct 17 15:54 16592 Oct 17 12:36 16592 Oct 17 12:36	5°\$36'29 5°\$02'23 13°\$15'11 0°\$\Omega\$15'37 0°\$\Omega\$22°\$\Omega\$23'05 0°\$\Omega\$30'31 8°\$\Omega\$10'07 12°\$\Omega\$28'23 10°\$\Omega\$59'30 4°\$\Omega\$59'30 4°\$\Omega\$59'13 3°\$\Omega\$41'34 30°\$\Omega\$227'11 0°\$\Omega\$3'23 26°\$\Omega\$06'46 26°\$\Omega\$27'11 0°\$\Omega\$3'\Omega\$27'11 0°\$\Omega\$3'\Omega\$27'11 0°\$\Omega\$3'\Omega\$27'11 10°\$\Omega\$3'\Omega\$27'11 10°\$\Omega\$3'\Omega\$27'11 113°\$\Omega\$51'11 13°\$\Omega\$51'11 13°\$\Omega\$51'11 13°\$\Omega\$51'11 13°\$\Omega\$51'11 13°\$\Omega\$14'13	1°42'44 1.45388 AU -0.6m 20°01'17 2°59'54 2°59'27 0.68167 AU 24°35'39 1.37573 AU 0°00'25
superior conj 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 desc. node direct morning max el morning set max. Earth dist. asc. node	16591 Jun 17 03:41 16591 Jul 02 07:36 16591 Jul 04 03:56 16591 Jul 05 00:30 16591 Jul 18 10:34 16591 Jul 24 08:49 16591 Jul 29 14:17 16591 Aug 04 17:10 16591 Aug 10 20:15 16591 Aug 17 17:10 16591 Aug 26 16:27 16591 Aug 26 16:27 16591 Aug 28 05:05 16591 Aug 28 05:05 16591 Sep 01 06:48 16591 Sep 01 06:48 16591 Sep 07 08:17 16591 Sep 19 23:42 16591 Sep 28 22:33 16591 Oct 18 21:12 16591 Oct 25 22:00 16591 Oct 29 14:31 16591 Oct 31 18:03 16591 Nov 04 07:30 16591 Nov 04 07:30 16591 Nov 04 07:30 16591 Nov 04 07:31	1°\$45'34 25°\$46'48 25°\$23'23 28°\$39'52 0°\$\Omega\$20'02 0°\$\Omega\$20'02 0°\$\Omega\$24'002'16 26°\$\Omega\$51'17 21°\$\Omega\$253 20°\$\Omega\$56'39 19°\$\Omega\$20'33 12°\$\Omega\$05'30 12°\$\Omega\$00'39 19°\$\Omega\$1'59 0°\$\Omega\$20'02 19°\$\Omega\$22'42 23°\$\Omega\$32'56 16°\$\sqrt{3}3'2'6	2°07'42 1.46003 AU -0.7m 19°06'36 2°40'09 2°39'37 0.66940 AU 25°58'40 1.35294 AU 0°31'46 0°31'56	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	16592 Jun 11 04:04 16592 Jun 10 19:34 16592 Jun 15 23:35 16592 Jun 26 22:57 16592 Jun 26 18:52 16592 Jul 11 17:58 16592 Jul 17 04:47 16592 Jul 21 13:57 16592 Jul 24 01:03 16592 Jul 31 15:58 16592 Aug 04 14:21 16592 Aug 09 21:18 16592 Aug 09 22:27 16592 Aug 10 20:10 16592 Aug 13 19:16 16592 Aug 15 06:07 16592 Aug 20 20:47 16592 Aug 20 20:47 16592 Aug 20 20:47 16592 Aug 20 20:47 16592 Aug 20 03:46 16592 Aug 20 03:46 16592 Sep 01 10:48 16592 Sep 01 10:48 16592 Oct 17 00:54 16592 Oct 10 06:24 16592 Oct 17 15:57 16592 Oct 17 15:57 16592 Oct 17 15:54 16592 Oct 17 15:54 16592 Oct 17 15:54 16592 Oct 17 15:54 16592 Oct 17 09:12 16592 Oct 17 22:36	5°\$36'29 5°\$02'23 13°\$15'11 0°\$\Omega\$15'37 0°\$\Omega\$22'\Omega\$23'05 0°\$\Omega\$30'31 8°\$\Omega\$10'07 12°\$\Omega\$2'23 10°\$\Omega\$59'30 4°\$\Omega\$59'11 3°\$\Omega\$41'34 30°\$\Omega\$28'\Omega\$33'23 26°\$\Omega\$06'46 26°\$\Omega\$27'11 0°\$\Omega\$3'\Omega\$24'\Omega\$16'06 0°\$\Omega\$24'\Omega\$16'06 0°\$\Omega\$3'09 13°\$\Omega\$51'27 13°\$\Omega\$51'11 13°\$\Omega\$18'45 14°\$\Omega\$23'41	1°42'44 1.45388 AU -0.6m 20°01'17 2°59'54 2°59'27 0.68167 AU 24°35'39 1.37573 AU 0°00'25

evening max el	16592 Nov 11 22:04	28° ∡ 17'57	19°21'08	evening rise	16593 Oct 09 22:51	14° M 24'25	
<i>y</i>	16592 Nov 13 19:09	8°0		<i>8</i> 11	16593 Oct 18 10:23	0° ∡ ¹	
desc. node	16592 Nov 19 00:41	2° る 44'48		evening max el	16593 Oct 25 22:40	10° х 19′53	18°33'50
retrograde	16592 Nov 21 08:18	3° る 01'29		retrograde	16593 Nov 02 23:16	14° ∡ °23′59	
evening set	16592 Nov 23 06:35	2° る 50'30		evening set	16593 Nov 04 22:03	14° ∡ 10′22	
	16592 Nov 29 19:23	30°₽ , ✓		desc. node	16593 Nov 05 21:49	13° ₹ 53'31	
inferior conj	16592 Dec 01 19:44	28° ∡ ¹42'26	-3°56'56	inferior conj	16593 Nov 12 20:30	9° ∡ ′41′23	-2°14'14
minimum elong	16592 Dec 01 10:26	28° ₰ 57'42	3°53'14	minimum elong	16593 Nov 12 15:09	9° ∡ 751'37	2°11'34
min. Earth dist.	16592 Dec 04 09:36	27° ҂ 01'03	0.55704 AU	min. Earth dist.	16593 Nov 16 00:30	7° ∡ 16'47	0.57507 AU
morning rise	16592 Dec 09 12:04	24° ∡ 15′20		morning rise	16593 Nov 20 04:58	4° ∡ °38'01	
direct	16592 Dec 15 00:33	23° ₰ 06'00		direct	16593 Nov 26 09:50	3° ∡ 01'51	
	16592 Dec 28 19:52	8°0		morning max el	16593 Dec 10 15:14	10° ∡ ¹29'27	26°54'09
morning max el	16592 Dec 29 00:46	0° る 11'38	25°27'33		16593 Dec 25 15:02	0°ප	
asc. node	16593 Jan 13 14:18	21° る 09'40		asc. node	16593 Dec 31 11:27	10° පි 04'11	
	16593 Jan 18 10:40	0° ≈		morning set	16594 Jan 09 10:45	28° る 00'52	
morning set	16593 Jan 25 01:01	13° ≈ 32'35			16594 Jan 10 08:49	0° ≈	
superior conj	16593 Jan 31 18:25	28° ≈ 22′10	1°35'41	superior conj	16594 Jan 16 05:26	13° ≈ 00'04	1°38'14
minimum elong	16593 Jan 31 19:22	28° ≈ 27'30	1°36'00	minimum elong	16594 Jan 16 05:20	12° ≈ 59'34	1°38'43
	16593 Feb 01 12:06	0° ∀		max. Earth dist.	16594 Jan 16 15:10	13° ≈ 54'35	1.31068 AU
max. Earth dist.	16593 Feb 02 08:30	1°) 52′27	1.31689 AU	evening rise	16594 Jan 23 02:17	28° ≈ 06'08	
evening rise	16593 Feb 07 23:25	13°) 54′52			16594 Jan 23 23:51	0° ∀	
desc. node	16593 Feb 15 00:42	27° ¥ 45'14		desc. node	16594 Feb 01 21:27	17° ¥ 20′07	
	16593 Feb 16 06:10	$0^{\circ}\mathbf{Y}$			16594 Feb 09 14:00	$0^{\circ}\mathbf{Y}$	
	16593 Mar 08 10:46	0°8		evening max el	16594 Feb 22 23:41	16° Ƴ 40'18	27°11'35
evening max el	16593 Mar 12 17:55	4° 8 31'32	27°36'14	retrograde	16594 Mar 09 00:51	23° Y ′59'38	
retrograde	16593 Mar 26 17:19	12° 8 01'09	_, _, .	evening set	16594 Mar 15 16:04	22° Y ′04'23	
evening set	16593 Apr 02 12:25	9° 8 46'04		min. Earth dist.	16594 Mar 19 13:57	19° Y ′21'03	0.59969 AU
min. Earth dist.	16593 Apr 06 06:37	6° 8 45'39	0.62237 AU	inferior conj	16594 Mar 22 19:27	16° Y 40'07	
inferior conj	16593 Apr 09 07:20	3° 8 52'53		minimum elong	16594 Mar 23 00:14	16° Y 30'09	2°04'27
minimum elong	16593 Apr 09 08:46	3° 8 49'29	0°41'38	asc. node	16594 Mar 29 09:11	12°Υ16'09	2 0427
asc. node	16593 Apr 11 11:55	1° 8 52'03	0 41 50	morning rise	16594 Mar 30 11:57	11° Y ′54'09	
asc. node	16593 Apr 13 22:22	30°RΥ		direct	16594 Apr 01 12:43	11° Υ 37'57	
morning rise	16593 Apr 16 08:12	28° Y ′47'34		morning max el	16594 Apr 08 21:09	15°Υ17'58	18°02'11
•	-	28° Y 24'01		morning max er	-	0° 8	16 02 11
direct	16593 Apr 18 14:43	0° 8		morning got	16594 Apr 19 01:22	9° 8 48'42	
	16593 Apr 23 03:54	_	17947102	morning set	16594 Apr 24 11:01	_	
morning max el	16593 Apr 25 06:26	1° 8 45'37	17°47'03	desc. node	16594 Apr 30 22:24	21° 8 41'35	
morning set	16593 May 11 04:58	26° 8 13'41			1650434 04 15 05	2001 115155	0020122
	16593 May 13 08:29	0°П		superior conj	16594 May 04 15:07	28° 8 17'55	
desc. node	16593 May 14 01:32	1° Ⅱ 14'44		minimum elong	16594 May 04 12:34	28° 8 06'38	0°30'26
			400000		16594 May 05 14:21	0°II	
superior conj	16593 May 22 22:00	16° Ⅱ 26'05		max. Earth dist.	16594 May 12 04:52	11° Ⅱ 16′08	1.42263 AU
minimum elong	16593 May 22 15:48	16° Ⅱ 00'07		evening rise	16594 May 17 14:43	20° Ⅱ 05'00	
max. Earth dist.	16593 May 29 16:18		1.44101 AU		16594 May 23 23:03	0°©	
	16593 May 31 05:22	ი _ა ფ			16594 Jun 14 08:24	0 \circ Ω	
evening rise	16593 Jun 06 11:30	9° 5 49'00		evening max el	16594 Jun 19 17:28	6° Ω 00′30	22°27'02
	16593 Jun 19 22:45	0 \circ Ω		asc. node	16594 Jun 25 07:42	10° Ω 29'04	
evening max el	16593 Jul 06 23:49	22° Ω 05′19	21°09'24	retrograde	16594 Jun 29 12:22	11° Ω 43'51	
asc. node	16593 Jul 08 10:47	23° Ω 27'55		evening set	16594 Jul 04 09:23	9° Ω 40'39	
retrograde	16593 Jul 15 14:55	27° Ω 04'04		inferior conj	16594 Jul 09 15:44	3° Ω 20′27	
evening set	16593 Jul 20 00:20	25° Ω 17'26		minimum elong	16594 Jul 09 15:01	3° Ω 22'55	3°04'08
inferior conj	16593 Jul 25 05:45	19° Ω 06′20	3°07'43	min. Earth dist.	16594 Jul 09 11:59	3° Ω 33'29	0.69194 AU
minimum elong	16593 Jul 25 05:58	19° Ω 05'34	3°07'16		16594 Jul 12 03:22	30° ₹ 5	
min. Earth dist.	16593 Jul 25 15:12	18° Ω 33'29	0.68927 AU	morning rise	16594 Jul 14 20:30	27° © 07'11	
morning rise	16593 Jul 30 11:20	12° Ω 45'45		direct	16594 Jul 19 11:14	25° © 12'02	
direct	16593 Aug 04 14:13	10° Ω 32'58		desc. node	16594 Jul 27 21:30	29° © 51'09	
desc. node	16593 Aug 10 00:14	12° Ω 30′12			16594 Jul 28 01:10	$0 {\circ} \Omega$	
morning max el	16593 Aug 14 22:16	16° Ω 41'25	23°06'39	morning max el	16594 Jul 28 12:47	0° Ω 28'35	21°40'17
	16593 Aug 25 22:32	0° m			16594 Aug 19 16:25	0° ™	
	16593 Sep 15 02:10	0∘ ⊽		morning set	16594 Aug 29 12:15	15°Mp07'25	
morning set	16593 Sep 18 06:21	5° ≏ 11'19		max. Earth dist.	16594 Sep 04 17:37	25° m 09'58	1.42284 AU
max. Earth dist.	16593 Sep 22 13:15	12° ≏ 24'52	1.40000 AU		16594 Sep 07 15:25	0∘ ⊽	
	-						
superior conj	16593 Sep 30 09:41	26° ≏ 21'20	-0°35'18	superior conj	16594 Sep 12 08:19	8° ഫ 01'29	-1°12'27
minimum elong	16593 Sep 30 12:23	26° ჲ 33'43	0°34'36	minimum elong	16594 Sep 12 14:20	8° ≏ 27'34	1°11'35
	16593 Oct 02 08:59	0° M		asc. node	16594 Sep 21 08:24	24° ≙ 04'37	
asc. node	16593 Oct 04 11:38	3° M 57'41		evening rise	16594 Sep 23 07:46	27° ≏ 40'43	

	16594 Sep 24 14:17	0° M		evening rise	16595 Sep 06 00:43	10° ≙ 15'14	
evening max el	16594 Oct 09 08:06	23°ML02'47	18°07'44	asc. node	16595 Sep 08 05:08	14° ⊆ 02'30	
retrograde	16594 Oct 16 09:18	26°ML39'48	10 07 44	asc. node	16595 Sep 17 21:52	0°M	
evening set	16594 Oct 18 13:46	26°M19'21		evening max el	16595 Sep 22 22:05	6°ML15'34	18°01'10
desc. node	16594 Oct 23 19:01	23°M12'05		retrograde	16595 Sep 29 10:19	9°ML38'37	10 01 10
inferior conj	16594 Oct 25 18:53	21°ML28'48	-0°38'21	evening set	16595 Oct 01 22:31	9° ML 07'40	
minimum elong	16594 Oct 25 17:33	21°MJ31'47	0°37'22	inferior conj	16595 Oct 08 11:47	3°M57'59	0°40'29
min. Earth dist.	16594 Oct 29 00:04	18°MJ37'54	0.59698 AU	minimum elong	16595 Oct 08 12:57	3°M55'00	0°40'20
morning rise	16594 Nov 01 18:02	15°M51'25		desc. node	16595 Oct 10 16:16	1°ML43'51	
direct	16594 Nov 08 07:59	13°ML50'10		min. Earth dist.	16595 Oct 11 09:45	1°ML00'33	0.61991 AU
morning max el	16594 Nov 22 14:15	21°MJ34'58	27°46'09		16595 Oct 12 11:20	30° ₹ Ω	
	16594 Nov 29 23:29	0° ∡ ¹		morning rise	16595 Oct 15 00:43	27° £ 54'56	
asc. node	16594 Dec 18 08:33	29° ∡ ¹27'43		direct	16595 Oct 21 17:18	25° ≏ 33'39	
	16594 Dec 18 15:17	0°ප			16595 Oct 31 22:31	0° M	
morning set	16594 Dec 24 16:44	12° る 15'12		morning max el	16595 Nov 04 20:18	3°M29'54	27°58'40
max. Earth dist.	16594 Dec 30 22:43	25° る 54'57	1.30995 AU		16595 Nov 24 13:40	0° ∡ ¹	
				asc. node	16595 Dec 05 05:36	19° ∡ 11'36	
superior conj	16594 Dec 31 16:44	27° る 35'42	1°34'46	morning set	16595 Dec 08 16:50	26° ₰ 09'54	
minimum elong	16594 Dec 31 15:38	27° ට 29'30	1°35'15		16595 Dec 10 12:58	0°ಕ	
	16595 Jan 01 18:30	0° ≈		max. Earth dist.	16595 Dec 14 03:04	7° る 42'57	1.31477 AU
evening rise	16595 Jan 07 09:42	12° ≈ 27'19					
	16595 Jan 16 03:11	0°) €		superior conj	16595 Dec 16 02:24	12° පි 03'16	1°25'10
desc. node	16595 Jan 19 18:16	6°) 24′14		minimum elong	16595 Dec 16 00:28	11° る 52'37	1°25'33
evening max el	16595 Feb 04 21:52	27° ¥ 56′18	26°11'47	evening rise	16595 Dec 22 19:40	26° る 53'05	
	16595 Feb 07 05:45	0 ° $\mathbf{\gamma}$			16595 Dec 24 06:29	0° ≈	
retrograde	16595 Feb 18 21:17	5° Y 02'44		desc. node	16596 Jan 06 15:07	24° ≈ 45'54	
evening set	16595 Feb 25 01:24	3° Ƴ 32′22			16596 Jan 10 06:05	0° ∀	
min. Earth dist.	16595 Mar 01 11:01		0.57775 AU	evening max el	16596 Jan 17 11:32	8° ¥ 21'37	24°43'08
	16595 Mar 02 17:46	30° ₹		retrograde	16596 Jan 31 05:12	15° ∺ 13'16	
inferior conj	16595 Mar 04 12:35	28°) 42′26		evening set	16596 Feb 05 13:14	14° ∺ 10′16	
minimum elong	16595 Mar 04 20:55	28° ∺ 27′27	3°35'21	min. Earth dist.	16596 Feb 10 23:38	11° 米 21'40	0.55918 AU
morning rise	16595 Mar 12 19:43	24°) 18′07		inferior conj	16596 Feb 13 08:26	9° ¥ 52'43	
direct	16595 Mar 14 18:35	24° ₭ 05'36		minimum elong	16596 Feb 13 17:43		5°00'53
asc. node	16595 Mar 16 06:28	24°) 13'15	10025120	morning rise	16596 Feb 22 00:33	5°) 49′08	
morning max el	16595 Mar 23 05:13	28°) 15′09	18°37'30	direct	16596 Feb 24 04:39	5°) 36'18	
	16595 Mar 24 20:29	0°Υ		asc. node	16596 Mar 02 03:45	7°) 58'31	10025101
morning set	16595 Apr 08 05:27	23° Y 56′02		morning max el	16596 Mar 05 02:26	10° ¥ 25'37 0° Υ	19°35'01
	16595 Apr 11 08:43	0°8			16596 Mar 18 01:56 16596 Mar 22 08:16	8° Y 23'58	
aumariar aani	16595 Apr 17 04:23	110 202120	0°05'15	morning set	10390 Mar 22 08:10	8- 1 23 38	
superior conj minimum elong	16595 Apr 17 04:43	11° 8 03'38		superior conj	16596 Mar 30 09:27	24° Ƴ 31'16	0°35'50
behind sun begin	16595 Apr 16 22:01	10°833'54	0 04 30	minimum elong	16596 Mar 30 11:26	24° Υ 40'57	0°35'26
behind sun end	16595 Apr 17 11:26	11° 8 36'26		minimum clong	16596 Apr 02 05:24	0° 8	0 33 20
desc. node	16595 Apr 17 19:13	12° 8 12'30		desc. node	16596 Apr 03 16:00	2° 8 43'55	
max. Earth dist.	16595 Apr 24 13:10	24° 8 19'34	1.40067 AU	max. Earth dist.	16596 Apr 05 19:06	6° 8 41'24	1.37756 AU
man zarur uiov.	16595 Apr 27 20:43	0°II	1.10007110	evening rise	16596 Apr 09 11:32	13° 8 19'20	1.57760110
evening rise	16595 Apr 28 14:47	1° Ⅱ 15'54		evening rise	16596 Apr 19 11:28	0°II	
7	16595 May 17 06:56	0ංම 			16596 May 11 06:08	0ංම _	
evening max el	16595 Jun 02 07:53	19°955'47	23°48'42	evening max el	16596 May 14 21:12	3°950'44	25°07'45
asc. node	16595 Jun 12 04:40	26°516'29		retrograde	16596 May 26 22:05	10° © 50'59	
retrograde	16595 Jun 13 07:08	26°521'38		asc. node	16596 May 29 01:41	10° © 31'54	
evening set	16595 Jun 18 15:50	24°504'21		evening set	16596 Jun 01 18:03	8°523'33	
min. Earth dist.	16595 Jun 23 08:27	18° © 34'50	0.68962 AU	min. Earth dist.	16596 Jun 06 02:36	3°531'11	0.68241 AU
inferior conj	16595 Jun 24 01:19	17°537'13	2°51'16	inferior conj	16596 Jun 07 08:35	1°952'53	2°27'09
minimum elong	16595 Jun 23 23:48	17°5542'25	2°50'28	minimum elong	16596 Jun 07 06:31	1° 9 59'41	2°26'05
morning rise	16595 Jun 29 07:47	11°532'44			16596 Jun 08 19:38	30°RⅡ	
direct	16595 Jul 03 10:35	9° 9 57'00		morning rise	16596 Jun 12 19:20	25° Ⅱ 58'12	
morning max el	16595 Jul 11 09:07	14° 5 26'19	20°23'04	direct	16596 Jun 16 10:48	24° Ⅱ 41′56	
desc. node	16595 Jul 14 18:43	18° © 10'07		morning max el	16596 Jun 23 12:34	28° Ⅲ 34′20	19°19'22
	16595 Jul 23 16:10	$0^{\circ}\Omega$			16596 Jun 24 21:40	0ංම	
morning set	16595 Aug 08 22:35	24° Ω 15'46		desc. node	16596 Jun 30 15:52	7° © 12'02	
	16595 Aug 12 15:24	0° m		greatest brilliancy	16596 Jul 06 05:27	15° © 10'19	-0.7m
max. Earth dist.	16595 Aug 18 04:40	8° Mp 46'02	1.44163 AU		16596 Jul 16 00:50	0 $^{\circ}$ Ω	
				morning set	16596 Jul 18 03:42	3° Ω 15'11	
superior conj	16595 Aug 24 08:03	18° m 43'21		max. Earth dist.	16596 Jul 30 20:53	22° Ω 58'35	1.45445 AU
minimum elong	16595 Aug 24 16:02	19° m 16'15	1°45'28			_	
	16595 Aug 31 01:43	0∘ ⊽		superior conj	16596 Aug 03 09:13	28° Ω 30'49	-2°08'51

minimum elong	16596 Aug 03 14:38	28° Ω 52'17	2°08'58	evening rise	16597 Jul 29 14:52	2° m/30'27	
8	16596 Aug 04 07:43	0° m/		greatest brilliancy	16597 Aug 06 17:03	15° m) 14'28	-0.8m
evening rise	16596 Aug 17 20:23	21° m 54'55		asc. node	16597 Aug 11 22:37	23° m/ 12'28	
	16596 Aug 22 18:09	0∘ ⊽			16597 Aug 16 20:55	0∘ 亚	
asc. node	16596 Aug 25 01:53	3° ₽ 47'08		evening max el	16597 Aug 20 01:46	3° ₽ 37'07	18°42'17
evening max el	16596 Sep 05 13:00	19° ≏ 49'45	18°12'57	retrograde	16597 Aug 26 15:49	7° ≏ 10'54	
retrograde	16596 Sep 11 21:46	23° ≏ 11'45		evening set	16597 Aug 29 22:12	6° ₽ 10'01	
evening set	16596 Sep 14 18:42	22° ≏ 27'05		inferior conj	16597 Sep 04 13:20	0° ჲ 29'32	2°22'40
inferior conj	16596 Sep 20 19:12	17° ≏ 00'59	1°40'17	minimum elong	16597 Sep 04 15:33	0° ჲ 22'39	2°22'05
minimum elong	16596 Sep 20 21:24	16° ≏ 54'43	1°39'42		16597 Sep 04 22:49	30°R, Mp	
min. Earth dist.	16596 Sep 23 05:31	14° ≏ 15'34	0.64161 AU	min. Earth dist.	16597 Sep 06 10:06	28° m 10'57	0.66038 AU
morning rise	16596 Sep 26 22:17	10° ≏ 42'13		morning rise	16597 Sep 10 07:50	24° m 03'37	
desc. node	16596 Sep 26 13:31	10° ≏ 59'48		desc. node	16597 Sep 13 10:48	22° m 05'12	
direct	16596 Oct 03 12:09	8° ₾ 08'36		direct	16597 Sep 16 14:50	21°Mp26'35	
morning max el	16596 Oct 17 06:23	16° ≏ 06'11	27°34'11	morning max el	16597 Sep 29 17:46	29° m 11'37	26°39'53
	16596 Oct 28 18:23	0° ™			16597 Sep 30 12:39	0∘ ত	
	16596 Nov 16 07:46	0° ∡ 7			16597 Oct 22 14:42	0° M ,	
morning set	16596 Nov 21 08:34	9° ∡ ³39′28		morning set	16597 Nov 04 12:57	22°M37'17	
asc. node	16596 Nov 21 02:34	9° × 709'44	1.00501.477	asc. node	16597 Nov 07 23:29	29°M17'09	
max. Earth dist.	16596 Nov 26 00:24	19° ∤ 11'11	1.32531 AU	P. d. P.	16597 Nov 08 08:07	0° ∕ 7	1 2 4 1 4 2 4 7 7
	1650631 20 00 01	260 315146	1000100	max. Earth dist.	16597 Nov 08 12:15	0° ∡ ′20′33	1.34143 AU
superior conj	16596 Nov 29 08:24	26° ₹ 17'46	1°09'22		16507N 12 00 26	100 71227	0047117
minimum elong	16596 Nov 29 06:02	26° ₹ 05'00	1°09'35	superior conj	16597 Nov 13 08:26	10° ₹ 13'27	0°47'17
	16596 Dec 01 01:23	0°궁 11°궁19'24		minimum elong	16597 Nov 13 06:14	10° ₹ 02'02	0°47'26
evening rise	16596 Dec 06 06:23			evening rise	16597 Nov 20 16:03	25° メ 42'11 0°る	
daga mada	16596 Dec 15 15:38	0°≈ 12°aa10'01		daga mada	16597 Nov 22 17:27	0°る 28°る17'03	
desc. node	16596 Dec 23 12:00	12°≈10'01	2200000	desc. node	16597 Dec 10 08:56		21920151
evening max el	16596 Dec 28 20:56	18°≈18'08	23°00'08	evening max el	16597 Dec 10 11:20	28°る22'57 0°≈	21-20/51
retrograde	16597 Jan 10 23:57 16597 Jan 15 03:28	24°≈47'21		ratra ara da	16597 Dec 12 05:49	0 ≈ 4°≈16'45	
evening set min. Earth dist.	16597 Jan 22 06:59	24°≈10′03 20°≈51′37	0.54704 AU	retrograde evening set	16597 Dec 22 09:43 16597 Dec 25 07:45	4 ≈1043 3°≈57'08	
inferior conj	16597 Jan 23 09:08	20 ≈3137 20°≈14'18		inferior conj	16598 Jan 03 00:01	0°≈07'32	5°52'46
minimum elong	16597 Jan 23 13:08	20°≈08'36	5°55'36	minimum elong	16598 Jan 02 18:40	0°≈15'03	
morning rise	16597 Feb 01 00:00	16° ≈ 24'16	3 33 30	minimum ciong	16598 Jan 03 05:22	0~1303 30°Rる	3 31 37
direct	16597 Feb 03 20:38	16°≈05'08		min. Earth dist.	16598 Jan 03 12:12	29°る50'25	0.54367 AU
morning max el	16597 Feb 15 09:10	21°≈39'49	20°55'45	morning rise	16598 Jan 11 05:54	26° る 17'37	0.54507 AC
asc. node	16597 Feb 17 01:03	23°≈22'44	20 33 13	direct	16598 Jan 15 04:30	25° る 43'59	
use. noue	16597 Feb 22 03:47	0° ∀			16598 Jan 25 18:29	0°≈	
morning set	16597 Mar 06 16:23	23°¥03'08		morning max el	16598 Jan 28 01:24	2° ≈ 00'19	22°36'47
	16597 Mar 10 00:13	0°Υ		asc. node	16598 Feb 03 22:18	10° ≈ 07'53	
					16598 Feb 15 09:31	0°) €	
superior conj	16597 Mar 14 02:11	8° Y ′28'51	1°00'45	morning set	16598 Feb 19 03:29	7°) 46′55	
minimum elong	16597 Mar 14 04:42	8° Y 41'43	1°00'21	C			
max. Earth dist.	16597 Mar 19 03:24	18° Ƴ 36′09	1.35579 AU	superior conj	16598 Feb 26 03:18	22°) 47'23	1°19'14
desc. node	16597 Mar 21 12:43	23° Y 11'34		minimum elong	16598 Feb 26 05:33	22°) 59′24	1°19'06
evening rise	16597 Mar 23 01:55	26° Y ′06'02			16598 Mar 01 13:39	$0^{\circ}\Upsilon$	
	16597 Mar 25 04:59	9° 8		max. Earth dist.	16598 Mar 01 18:34	0° Y 25'26	1.33724 AU
	16597 Apr 12 22:07	Π $^{\circ}0$		evening rise	16598 Mar 06 06:26	9° Y 26'48	
evening max el	16597 Apr 27 10:47	17° Ⅱ 41'12	26°16'50	desc. node	16598 Mar 08 09:26	13° Y ′31′43	
retrograde	16597 May 10 08:09	25° Ⅱ 03′28			16598 Mar 17 16:55	0° 8	
asc. node	16597 May 15 22:46	23° Ⅱ 01'16			16598 Apr 08 16:51	$\Pi^{\circ}0$	
evening set	16597 May 16 14:10	22° Ⅱ 31′06		evening max el	16598 Apr 10 00:36	1° Ⅱ 19'14	27°08'14
min. Earth dist.	16597 May 20 16:20	18° Ⅱ 14'27	0.67057 AU	retrograde	16598 Apr 23 12:09	8° Ⅱ 51′01	
inferior conj	16597 May 22 11:25	16° Ⅱ 01'50	1°51'29	evening set	16598 Apr 30 02:14	6° Ⅱ 19'52	
minimum elong	16597 May 22 09:16	16° Ⅱ 08'31	1°50'17	asc. node	16598 May 02 19:55	3° Ⅱ 50′28	
morning rise	16597 May 28 05:14	10° Ⅱ 18'15		min. Earth dist.	16598 May 03 23:37	2° Ⅱ 36'29	0.65455 AU
direct	16597 May 31 10:14	9° Ⅱ 20'02		inferior conj	16598 May 06 07:29	29° 8 58'32	1°03'04
morning max el	16597 Jun 06 22:40	12° Ⅱ 47'53	18°31'28	minimum elong	16598 May 06 05:55		1°02'01
desc. node	16597 Jun 17 12:55	26° Ⅱ 44'57			16598 May 06 06:58	30°R8	
· ,	16597 Jun 19 16:01	0°©		morning rise	16598 May 12 11:13	24° 8 27'49	
morning set	16597 Jun 27 23:02	12°957'20		direct	16598 May 15 06:40	23° 8 45'24	1000000
	16597 Jul 08 20:16	$0 {\circ} \Omega$		morning max el	16598 May 21 13:44	27° 8 01'10	18°00'26
gunorier cor-	16507 Iul 12 10.57	70 0 47120	2012147	daga mada	16598 May 24 06:20	0° Ц 16° Ц 40'40	
superior conj	16597 Jul 13 19:56	7° Ω 46'20 7° Ω 38'39		desc. node	16598 Jun 04 09:56 16598 Jun 08 20:22	16°Щ40'40 23°Щ54'25	
minimum elong max. Earth dist.	16597 Jul 13 17:58 16597 Jul 13 16:16	7° Ω 32'04	2°14°15 1.46015 AU	morning set	16598 Jun 08 20:22 16598 Jun 12 14:11	23°Щ54°25 0° ©	
man. Darui Uist.	16597 Jul 13 16:16 16597 Jul 28 00:43	0° Mg	1.40013 AU		10370 Jun 12 14.11	υ Ξ υ	
	10371 Jul 20 00.43	עוויי					

	16500 I 22 00.07	170611111	195950		16500 I 02 12.59	270 T 24127	1020150
superior conj	16598 Jun 23 08:07	17°911'11		superior conj	16599 Jun 03 12:58	27° Ⅱ 24'27	
minimum elong	16598 Jun 23 00:18	16°5540'19	1°58'53	minimum elong	16599 Jun 03 05:04	26° Ⅲ 52'14	1°28'3'/
max. Earth dist.	16598 Jun 26 12:50	22° © 12'17	1.45833 AU		16599 Jun 05 03:18	0° ©	
	16598 Jul 01 13:01	$0^{\circ}\Omega$		max. Earth dist.	16599 Jun 09 08:01	6° © 43'22	1.44918 AU
evening rise	16598 Jul 09 10:55	12° Ω 12′20		evening rise	16599 Jun 18 21:16	21° © 36'09	
	16598 Jul 21 04:03	0° m y			16599 Jun 24 10:05	$0^{\circ}\Omega$	
greatest brilliancy	16598 Jul 22 14:01	2° m 05'39	-0.7m		16599 Jul 16 03:11	0° m ∕	
asc. node	16598 Jul 29 19:23	12° m)11'21		asc. node	16599 Jul 16 16:11	0° m 34'47	
evening max el	16598 Aug 03 09:59	17° mp 30'45	19°28'09	evening max el	16599 Jul 17 12:13	1° m/26'05	20°28'51
retrograde	16598 Aug 10 13:31	21° m/29'06		retrograde	16599 Jul 25 12:37	6° Mp 00'31	
evening set	16598 Aug 14 05:58	20° m) 10'26		evening set	16599 Jul 29 15:43	4° m) 23'45	
inferior conj	16598 Aug 19 15:02	14° Mp 16'58	2°50'04	evening sec	16599 Aug 02 15:47	30°RΩ	
minimum elong	16598 Aug 19 16:40	14° Mp 11'34	2°49'35	inferior conj	16599 Aug 03 21:40	28° Ω 18'33	3°04'35
•	•			•	•		
min. Earth dist.	16598 Aug 20 21:47	12° m 35'29	0.67520 AU	minimum elong	16599 Aug 03 22:26	28° Ω 15'54	3°04'10
morning rise	16598 Aug 25 02:47	7° m 50'07		min. Earth dist.	16599 Aug 04 14:42	27°Ω20'00	0.68545 AU
direct	16598 Aug 30 23:58	5° Mp 17'51		morning rise	16599 Aug 09 04:51	21° Ω 54'54	
desc. node	16598 Aug 31 08:05	5° Mp 18'19		direct	16599 Aug 14 14:32	19° Ω 33'51	
morning max el	16598 Sep 12 04:59	12° m 35'14	25°24'42	desc. node	16599 Aug 18 05:23	20° Ω 26′18	
	16598 Sep 26 06:40	0∘ ত		morning max el	16599 Aug 25 16:08	26° Ω 10′18	23°58'10
	16598 Oct 15 07:54	0° M ₊			16599 Aug 29 04:44	0° m ∕	
morning set	16598 Oct 18 02:17	4° M ₅54'28			16599 Sep 19 19:22	0∘ ⊽	
max. Earth dist.	16598 Oct 21 15:23	11° M 25'27	1.36231 AU	morning set	16599 Sep 29 20:34	16° ≏ 22'41	
asc. node	16598 Oct 25 20:19	19°M29'04		max. Earth dist.	16599 Oct 03 14:34	22° ჲ 53'28	1.38604 AU
use. Houe	10370 000 23 20.17	19 1102901		max. Earth dist.	16599 Oct 07 13:15	0°M	1.50001710
superior conj	16598 Oct 27 23:34	23°M42'32	0°19'08		10377 Oct 07 13.13	O IIO	
	16598 Oct 27 22:25	23°M36'50	0°19'22	aumorior coni	16500 Oct 11 02:10	6° ™ 37'01	0014!10
minimum elong			0 1922	superior conj	16599 Oct 11 02:19		
	16598 Oct 31 02:19	0° ⊀ ⁷		minimum elong	16599 Oct 11 03:19	6°M41'42	0°13'49
evening rise	16598 Nov 04 22:32	9° ∡ ¹55'43		behind sun begin	16599 Oct 10 23:38	6° M 24'14	
	16598 Nov 15 15:15	0°ಕ		behind sun end	16599 Oct 11 07:00	6° ™ 59'11	
evening max el	16598 Nov 22 14:26	9° පි 06'12	19°58'28	asc. node	16599 Oct 12 17:07	9° ™ 42'05	
desc. node	16598 Nov 27 05:58	12° る 42'45		evening rise	16599 Oct 19 23:22	23°M54'11	
retrograde	16598 Dec 02 22:39	14° る 15'39			16599 Oct 23 02:22	0°⊀	
evening set	16598 Dec 05 01:39	14° る 03'37		evening max el	16599 Nov 05 07:54	20° х 40′13	18°58'15
inferior conj	16598 Dec 13 19:27	10° る 04'52	-4°50'25	retrograde	16599 Nov 14 02:51	25° ∡ ¹06'12	
minimum elong	16598 Dec 13 09:29	10° පි 20'00	4°47'11	desc. node	16599 Nov 14 03:03	25° ∡ ¹06'12	
min. Earth dist.	16598 Dec 15 18:22	8°₹53'35	0.54974 AU	evening set	16599 Nov 16 00:20	24° ∡ ¹54'39	
morning rise	16598 Dec 21 16:17	5°₹56'24		inferior conj	16599 Nov 24 07:54	20° ∡ ³37'38	-3°13'45
direct	16598 Dec 26 16:30	5° ට 01'38		minimum elong	16599 Nov 24 00:03	20° х 51′22	3°10'17
morning max el	16599 Jan 09 09:48	11°る50'34	24°27'10	min. Earth dist.	16599 Nov 27 05:20	18° × 36'28	0.56404 AU
asc. node	16599 Jan 21 19:32	11 3 50 34 27° る 54'46	24 27 10	morning rise	16599 Dec 01 21:01	15° x 55'19	0.30404 AU
asc. node							
	16599 Jan 23 01:51	0° ≈		direct	16599 Dec 07 17:03	14° 🗷 35'02	2.000
morning set	16599 Feb 03 15:30	22°≈28'48		morning max el	16599 Dec 21 20:28	21° х 50'15	26°07'55
	16599 Feb 07 02:17	0°)			16599 Dec 29 00:30	0°ਰ	
				asc. node	16600 Jan 08 16:44	16° る 28'23	
superior conj	16599 Feb 10 10:00	7° ∺ 18'24			16600 Jan 15 18:10	0° ≈	
minimum elong	16599 Feb 10 11:31	7° ∺ 26'42	1°31'37	morning set	16600 Jan 19 02:38	7° ≈ 03'54	
max. Earth dist.	16599 Feb 12 17:24	12°) 19′46	1.32297 AU				
evening rise	16599 Feb 17 21:45	23° ¥ 12'14		superior conj	16600 Jan 25 20:03	21° ≈ 55'46	1°37'31
	16599 Feb 21 08:05	0 ° Υ		minimum elong	16600 Jan 25 20:35	21° ≈ 58'42	1°37'54
desc. node	16599 Feb 23 06:10	3° Y 39'03		max. Earth dist.	16600 Jan 26 22:06	24° ≈ 20'36	1.31365 AU
	16599 Mar 11 09:21	0° ႘			16600 Jan 29 11:42	0° ∀	
evening max el	16599 Mar 23 13:03	14° 8 32'21	27°34'41	evening rise	16600 Feb 01 21:06	7°) 15′51	
retrograde	16599 Apr 06 09:09	22° 8 04'16	2, 3	desc. node	16600 Feb 10 02:55	23° ¥ 27'57	
evening set	16599 Apr 13 03:57	19° 8 41'09		dese. node	16600 Feb 13 19:49	0° Υ	
min. Earth dist.	-	16° 8 27'02	0.63492 AU	arranina marral		27° Υ '07'32	27920154
	16599 Apr 16 22:27			evening max el	16600 Mar 05 21:49		21 29 34
inferior conj	16599 Apr 19 17:53	13° 8 35'32	0°00'37		16600 Mar 09 04:51	0°8	
minimum elong	16599 Apr 19 17:53	13° 8 35'34	0°00'14	retrograde	16600 Mar 19 22:06	4° 8 33'17	
transit middle	16599 Apr 19 17:53	13° 8 35'34	0°00'14	evening set	16600 Mar 26 16:34	2° 8 25'33	
transit begin	16599 Apr 19 14:43	13° 8 43'40			16600 Mar 29 23:15	30° ŖƳ	
transit end	16599 Apr 19 21:02	13° 8 27'29		min. Earth dist.	16600 Mar 30 11:29	29° Y 33′56	0.61283 AU
asc. node	16599 Apr 19 17:06	13° 8 37'32		inferior conj	16600 Apr 02 15:13	26° Ƴ 43'55	-1°16'16
morning rise	16599 Apr 26 10:21	8° 8 20'14		minimum elong	16600 Apr 02 17:57	26° Ƴ 37'45	1°15'22
direct	16599 Apr 28 21:19	7° 8 50'40		asc. node	16600 Apr 06 14:22	23° Y ′28'48	
morning max el	16599 May 05 07:15	11° 8 06'28	17°46'50	morning rise	16600 Apr 09 22:42	21° Y 46'50	
	16599 May 18 06:13	0°II		direct	16600 Apr 12 02:30	21° Y ′26'49	
morning set	16599 May 21 19:57	6° Ⅱ 05'51		morning max el	16600 Apr 19 00:05	24° Υ '54'30	17°51'11
desc. node	16599 May 22 06:55	6° Ⅱ 52'43		morning max or	16600 Apr 23 05:26	0° 8	.,

						4.3	
morning set	16600 May 04 16:34	19° 8 15'25		morning set	16601 Apr 18 04:29	3° 8 06'30	
desc. node	16600 May 09 03:50	27° 8 15'38		desc. node	16601 Apr 26 00:40	17° 8 45'12	
	16600 May 10 16:56	Π °0					
				superior conj	16601 Apr 27 19:16	20° 8 58'45	-0°14'50
superior conj	16600 May 15 16:59	8° Ⅱ 41'31		minimum elong	16601 Apr 27 18:05	20° 8 53'24	0°15'03
minimum elong	16600 May 15 12:20	8° Ⅱ 21'39	0°51'55	behind sun begin	16601 Apr 27 15:36	20° 8 42'10	
max. Earth dist.	16600 May 22 23:13	20° Ⅱ 48'18	1.43369 AU	behind sun end	16601 Apr 27 20:34	21° 8 04'38	
	16600 May 28 17:11	0 \circ \odot			16601 May 02 21:48	Π $\circ 0$	
evening rise	16600 May 29 14:40	1° 5 24'16		max. Earth dist.	16601 May 05 09:24	4° Ⅱ 14'48	1.41356 AU
	16600 Jun 17 22:21	$0^{\circ}\Omega$		evening rise	16601 May 10 02:33	12° Ⅱ 04'05	
evening max el	16600 Jun 30 08:28	15° Ω 20'37	21°41'34		16601 May 21 15:11	0 \circ \odot	
asc. node	16600 Jul 03 13:04	18° Ω 10′13		evening max el	16601 Jun 13 00:23	29° © 15'44	23°01'38
retrograde	16600 Jul 09 11:13	20° Ω 38'42			16601 Jun 13 18:33	$0^{\circ}\Omega$	
evening set	16600 Jul 14 01:31	18° Ω 44'40		asc. node	16601 Jun 20 09:59	4° Ω 42'28	
inferior conj	16600 Jul 19 07:01	12° Ω 29′13	3°07'44	retrograde	16601 Jun 23 07:46	5° Ω 18'25	
minimum elong	16600 Jul 19 06:50	12° Ω 29'51	3°07'15	evening set	16601 Jun 28 09:39	3° N 09'00	
min. Earth dist.	16600 Jul 19 10:45	12° Ω 16′09	0.69093 AU		16601 Jul 01 07:22	30° ₹ ಾ	
morning rise	16600 Jul 24 11:57	6° Ω 11′29		inferior conj	16601 Jul 03 17:04	26°5945'20	3°00'17
direct	16600 Jul 29 09:31	4° Ω 06′08		minimum elong	16601 Jul 03 15:59	26°5549'05	2°59'37
desc. node	16600 Aug 05 02:41	7° Ω 05'07		min. Earth dist.	16601 Jul 03 07:47	27° © 17'33	0.69154 AU
morning max el	16600 Aug 08 04:42	9° £ 52′59	22°29'15	morning rise	16601 Jul 08 22:13	20° © 35'23	
	16600 Aug 24 01:08	0° ™		direct	16601 Jul 13 07:46	18° © 48'23	
morning set	16600 Sep 10 16:03	26° m 52'54		morning max el	16601 Jul 21 21:21	23° © 44'24	21°05'54
	16600 Sep 12 13:53	0∘ 亚		desc. node	16601 Jul 22 23:56	24° © 52'55	
max. Earth dist.	16600 Sep 15 15:20	5° ഫ 05'27	1.40999 AU		16601 Jul 27 09:05	$\mathfrak{O}^{\circ}\mathfrak{O}$	
					16601 Aug 17 08:42	0° ™	
superior conj	16600 Sep 23 12:24	18° ≏ 46′24	-0°51'06	morning set	16601 Aug 21 12:26	6° ₩ 25'13	
minimum elong	16600 Sep 23 16:30	19° ჲ 04'49	0°50'19	max. Earth dist.	16601 Aug 28 21:47	18° Mp 10'22	1.43144 AU
asc. node	16600 Sep 29 13:52	29° ჲ 52'01			-		
	16600 Sep 29 15:35	0° M		superior conj	16601 Sep 05 01:31	0° ჲ 01'51	-1°27'33
evening rise	16600 Oct 03 15:12	7°M28'24		minimum elong	16601 Sep 05 08:42	0° £ 32'19	1°26'43
•	16600 Oct 16 21:52	0° ∡		-	16601 Sep 05 01:05	0∘ ত	
evening max el	16600 Oct 19 12:44	3° ҂ 00'34	18°20'16	asc. node	16601 Sep 16 10:36	19° ≏ 55'19	
retrograde	16600 Oct 27 02:18	6° ∡ 751′51		evening rise	16601 Sep 16 17:53	20° ₽ 27'52	
evening set	16600 Oct 29 02:56	6° ∡ ³35'56			16601 Sep 22 02:54	0° M	
desc. node	16600 Nov 01 00:13	5° ∡ ¹23'25		evening max el	16601 Oct 03 00:35	15° M 57'17	18°02'44
inferior conj	16600 Nov 05 18:04	1° ∡ ′57'49	-1°31'57	retrograde	16601 Oct 09 19:01	19° ™ 26'32	
minimum elong	16600 Nov 05 14:33	2° ₹ 05'00	1°30'00	evening set	16601 Oct 12 02:37	19°M02'04	
	16600 Nov 08 03:30	30°RM		desc. node	16601 Oct 18 21:26	14° M 11'08	
min. Earth dist.	16600 Nov 08 23:56	29° ™ 19′24	0.58403 AU	inferior conj	16601 Oct 19 00:42	14°M03'24	-0°02'35
morning rise	16600 Nov 12 22:41	26°M38'50		minimum elong	16601 Oct 19 00:38	14° ™ 03'34	0°02'11
direct	16600 Nov 19 08:08	24°M51'28		transit middle	16601 Oct 19 00:38	14°M03'34	0°02'11
	16600 Nov 30 21:03	0° ∡		transit begin	16601 Oct 18 21:23	14°M11'16	
morning max el	16600 Dec 03 14:46	2° ∡ ′27'59	27°21'00	transit end	16601 Oct 19 03:53	13°M55'52	
	16600 Dec 23 11:46	8°0		min. Earth dist.	16601 Oct 22 03:46	11° M 07'02	0.60674 AU
asc. node	16600 Dec 26 13:52	5° る 36'32		morning rise	16601 Oct 25 19:33	8°M14'02	
morning set	16601 Jan 03 11:04	21° る 27'32		direct	16601 Nov 01 11:34	6° ™ 03'01	
	16601 Jan 07 08:57	0° ≈		morning max el	16601 Nov 15 16:50	13° M 54'04	27°56'17
					16601 Nov 28 15:54	0° ∡ ¹	
superior conj	16601 Jan 10 07:28	6° ≈ 34'04	1°37'31	asc. node	16601 Dec 13 10:56	25° ₹ 09'28	
minimum elong	16601 Jan 10 06:56	6° ≈ 31'05	1°38'00		16601 Dec 15 21:45	8°0	
max. Earth dist.	16601 Jan 10 05:31	6° ≈ 23'04	1.30964 AU	morning set	16601 Dec 18 14:46	5° る 34'07	
evening rise	16601 Jan 17 02:09	21° ≈ 32'18		max. Earth dist.	16601 Dec 24 11:57	18° る 18'21	1.31123 AU
	16601 Jan 21 03:49	0° ∀					
desc. node	16601 Jan 27 23:42	12° ¥ 51′24		superior conj	16601 Dec 25 18:18	21° る 07'11	1°31'28
	16601 Feb 08 04:12	0° Y		minimum elong	16601 Dec 25 16:48	20° る 58'53	1°31'55
evening max el	16601 Feb 16 00:29	8° Y ′54'41	26°50'13		16601 Dec 29 17:52	0° ≈	
retrograde	16601 Mar 02 01:37	16° Ƴ 09'44		evening rise	16602 Jan 01 10:50	5° ≈ 56'07	
evening set	16601 Mar 08 13:01	14° Y °24'22			16602 Jan 13 20:31	0° ∀	
min. Earth dist.	16601 Mar 12 14:29	11° Y '45'00	0.59009 AU	desc. node	16602 Jan 14 20:30	1° ¥ 39'14	
inferior conj	16601 Mar 15 19:44	9° Y 14'01	-2°44'57				
minimum elong	16601 Mar 16 02:07	9° Y 01'31	2°42'34				
morning rise	16601 Mar 23 18:52	4° Y 37'26					
asc. node	16601 Mar 24 11:39	4° Y 29'15					
direct	16601 Mar 25 18:01	4° Y °23'22					
morning max el	16601 Apr 02 12:37	8° Y 14'44	18°14'37				
	16601 Apr 16 12:45	9° 8					