superior conj	15600 Jan 22 20:28	16° ≈ 42'54	1°35'37	morning max el	15600 Dec 01 11:00	0° ∡ ¹02'53	26°32'47
minimum elong	15600 Jan 22 21:25	16° ≈ 48′08	1°36'13	asc. node	15600 Dec 21 18:32	28° ∡ 151'47	
max. Earth dist.	15600 Jan 24 17:54	20° ≈ 52′00	1.32014 AU		15600 Dec 22 09:16	0°ರ	
	15600 Jan 29 00:29	0° ∀		morning set	15600 Dec 30 12:53	16° පි 25'48	
evening rise	15600 Jan 30 04:05	2° 升 22'44		•	15601 Jan 05 16:27	0° ≈	
desc. node	15600 Feb 06 08:47	16° ¥ 21'47					
desc. node	15600 Feb 14 08:26	0°Υ		superior conj	15601 Jan 06 07:13	1°≈22'33	1°38'01
evening max el	15600 Mar 03 08:27	23° Υ 18'32	27°25'51	minimum elong	15601 Jan 06 07:06	1°≈21'55	1°38'48
evening max er	15600 Mar 13 01:36	0°8	27 33 34	max. Earth dist.	15601 Jan 07 00:00	2°≈56'16	1.31259 AU
		0° と 47'34				2 ≈30 10 16°≈32'49	1.31239 AU
retrograde	15600 Mar 17 06:04			evening rise	15601 Jan 13 05:37		
	15600 Mar 21 05:52	30° ₹ Υ			15601 Jan 19 22:38	0° ∺	
evening set	15600 Mar 24 01:49	28° Y 27'38		desc. node	15601 Jan 23 05:27	6°) €01'01	
min. Earth dist.	15600 Mar 27 20:07	25° Y 20'41	0.62848 AU		15601 Feb 08 08:27	0°Υ	
inferior conj	15600 Mar 30 17:52	22° Y 29'34		evening max el	15601 Feb 13 15:48	5° Ƴ 41'45	27°20'09
minimum elong	15600 Mar 30 19:10	22° Y 26'23	0°38'40	retrograde	15601 Feb 27 16:01	13° Ƴ 01'42	
asc. node	15600 Apr 01 18:28	20° Ƴ 33'48		evening set	15601 Mar 06 10:03	10° Ƴ 59'12	
morning rise	15600 Apr 06 15:17	17° Ƴ 19'04		min. Earth dist.	15601 Mar 10 06:07	8° Ƴ 12′26	0.60642 AU
direct	15600 Apr 08 23:23	16° Ƴ 53'17		inferior conj	15601 Mar 13 10:26	5° Y 28′00	-2°00'12
morning max el	15600 Apr 15 12:33	20° Y 12'51	17°46'11	minimum elong	15601 Mar 13 14:51	5° Ƴ 18′25	1°58'25
C	15600 Apr 22 21:32	0°B		asc. node	15601 Mar 19 15:53	1° Ƴ 04'17	
morning set	15600 May 01 16:19	14° 8 51'49		morning rise	15601 Mar 20 23:00	0° Υ 36'12	
desc. node	15600 May 04 10:32	19° 8 39'00		direct	15601 Mar 23 01:05	0° Υ 18'21	
desc. node	15600 May 10 11:57	0° Ⅱ		morning max el	15601 Mar 30 04:20	3°Υ52'50	17°56'07
	13000 Way 10 11.37	υд		-		28° Υ 16'45	17 3007
	15(00 May 12, 10.5)	50 ∏ 22120	1010127	morning set	15601 Apr 14 18:28	0° 8	
superior conj	15600 May 13 19:56	5° Ⅱ 33'39			15601 Apr 15 17:07		
minimum elong	15600 May 13 13:16	5° Ⅱ 06'05	1°10'27	desc. node	15601 Apr 21 07:14	10° 8 06'47	
max. Earth dist.	15600 May 20 04:25	15° Ⅱ 53'05	1.44466 AU				
evening rise	15600 May 28 18:59	29° Ⅱ 22'07		superior conj	15601 Apr 25 07:02	17° 8 09'03	
	15600 May 29 04:51	0 \circ \odot		minimum elong	15601 Apr 25 04:12	16° 8 56'44	0°32'15
	15600 Jun 18 16:46	0 $^{\circ}$ Ω			15601 May 02 21:21	Π °0	
evening max el	15600 Jun 27 11:21	10° Ω 36′05	20°51'32	max. Earth dist.	15601 May 02 18:23	29° 8 47'47	1.42774 AU
asc. node	15600 Jun 28 16:39	11° Ω 45'56		evening rise	15601 May 08 17:29	9° Ⅱ 24'46	
retrograde	15600 Jul 05 20:02	15° Ω 25′01			15601 May 22 07:30	0 \circ \odot	
evening set	15600 Jul 10 02:18	13° Ω 43'13		evening max el	15601 Jun 10 06:07	24°529'20	22°07'06
inferior conj	15600 Jul 15 07:59	7° Ω 34'28	3°09'05	asc. node	15601 Jun 15 13:36	28°546'18	
minimum elong	15600 Jul 15 08:09	7° Ω 33'53	3°08'21		15601 Jun 19 01:07	$0^{\circ}\Omega$	
min. Earth dist.	15600 Jul 15 20:36	6° Ω 50'44	0.68705 AU	retrograde	15601 Jun 19 17:54	0° Ω 02'21	
morning rise	15600 Jul 20 13:42	1° Ω 13'23			15601 Jun 20 10:24	30°Rூ	
morning rise	15600 Jul 22 04:57	30°R95		evening set	15601 Jun 24 11:29	28°903'52	
direct	15600 Jul 25 20:11	28°955'32		inferior conj	15601 Jun 29 17:36	21°945'19	3°05'26
direct	15600 Jul 29 19:38	0°Ω		minimum elong	15601 Jun 29 16:50	21°948'01	3°04'32
				_			
desc. node	15600 Jul 31 09:32	0° Ω 55'43	22021117	min. Earth dist.	15601 Jun 29 16:58	21°547'32	0.69093 AU
morning max el	15600 Aug 05 12:21	5° Ω 17'23	23°31'17	morning rise	15601 Jul 04 22:00	15°930'54	
_	15600 Aug 24 14:37	0° m)		direct	15601 Jul 09 16:08	13°930'26	
morning set	15600 Sep 09 08:16	24° Mp 45'50		desc. node	15601 Jul 18 06:49	18°914'45	
	15600 Sep 12 10:01	0∘ ত		morning max el	15601 Jul 19 01:28	19° © 00'22	22°03'15
max. Earth dist.	15600 Sep 13 07:38	1° ≏ 33'48	1.39292 AU		15601 Jul 28 06:19	$0 {\circ} \Omega$	
					15601 Aug 17 17:46	0° m ∤	
superior conj	15600 Sep 21 00:21	15° ≏ 26′27	-0°32'56	morning set	15601 Aug 20 20:17	4° ™ 55'28	
minimum elong	15600 Sep 21 02:46	15° ≏ 37'43	0°32'22	max. Earth dist.	15601 Aug 26 09:51	14° Mp 00'36	1.41626 AU
asc. node	15600 Sep 24 17:58	22° ♀ 30'08					
	15600 Sep 28 15:05	o° m ₊		superior conj	15601 Sep 03 04:29	27° m 19'43	-1°09'25
evening rise	15600 Sep 30 05:55	3°ML08'41		minimum elong	15601 Sep 03 10:02	27° m/44'15	
evening max el	15600 Oct 16 09:07	29°M24'39	18°44'37		15601 Sep 04 16:40	0∘ ⊽	
e vennig man er	15600 Oct 16 23:43	0° ∡ 7	1057	asc. node	15601 Sep 11 14:36	12° ♀ 34'28	
retrograde	15600 Oct 24 17:40	3° × ⁷ 37'45		evening rise	15601 Sep 13 17:57	16° £ 32'10	
evening set	15600 Oct 24 17:40 15600 Oct 26 15:28	3° × ⁷ 25'21		evening rise	15601 Sep 21 04:46	0° M	
•					•		10012100
desc. node	15600 Oct 27 06:13	3° ∡ 16'18		evening max el	15601 Sep 29 16:36	11°M57'38	18°13'08
	15600 Nov 02 10:34	30°RM.	202.412.2	retrograde	15601 Oct 06 22:48	15°M40'02	
inferior conj	15600 Nov 03 18:29	29°M02'21		evening set	15601 Oct 09 01:46	15°M21'34	
minimum elong	15600 Nov 03 12:36	29° M ₊13'08		desc. node	15601 Oct 14 03:31	12°MJ31'30	
min. Earth dist.	15600 Nov 06 20:10	26°M48'02	0.56958 AU	inferior conj	15601 Oct 16 11:07	10°MJ37'01	
morning rise	15600 Nov 11 06:35	24°M07'41		minimum elong	15601 Oct 16 09:31	10°M40'27	0°43'13
direct	15600 Nov 17 06:16	22°M40'38		min. Earth dist.	15601 Oct 19 17:23	7°M50'29	0.59060 AU
	15600 Dec 01 09:48	0° ∡ ¹		morning rise	15601 Oct 23 13:53	5°M06'42	

Ľ .	15(01.0 + 20.00.55	20 M 12126			15(02.0 + 05.15.20	160057110	
direct	15601 Oct 30 00:55	3°M₁3'26		morning rise	15602 Oct 05 15:30	16° ≙ 57'19	
morning max el	15601 Nov 13 07:53	10°M55'17	27°35'20	direct	15602 Oct 12 07:30	14° ≏ 41'18	
	15601 Nov 28 04:19	0° ∡ ¹		morning max el	15602 Oct 26 12:19	22° ≏ 36'56	27°58'59
asc. node	15601 Dec 08 15:34	18° ∡ 13′26			15602 Nov 02 01:41	0° M ₊	
	15601 Dec 14 11:24	0°ರ			15602 Nov 21 09:00	0° ⊼ ¹	
morning set	15601 Dec 14 20:07	0° ප 46'11		asc. node	15602 Nov 25 12:31	7° ∡ ¹55'10	
				morning set	15602 Nov 28 22:06	14° × 748'14	
superior conj	15601 Dec 21 18:43	16° る 01'09	1°34'25	max. Earth dist.	15602 Dec 04 13:53	26° ₹ 56'10	1.31353 AU
minimum elong	15601 Dec 21 17:35	15° る 54'52			15602 Dec 05 23:09	0°ප	
max. Earth dist.	15601 Dec 21 08:01		1.31032 AU		13002 Bec 03 23.07	° O	
max. Earth dist.			1.31032 AU		15(02 D 0(05:02	00=222120	1924140
	15601 Dec 28 02:09	0° ≈		superior conj	15602 Dec 06 05:02	0° る 32'39	1°24'49
evening rise	15601 Dec 28 12:13	0° ≈ 54'12		minimum elong	15602 Dec 06 03:07	0° る 22'01	1°25'30
desc. node	15602 Jan 10 02:12	25° ≈ 10′28		evening rise	15602 Dec 12 21:51	15° පි 21'03	
	15602 Jan 13 01:40	0° ∀			15602 Dec 20 01:32	0° ≈	
evening max el	15602 Jan 26 16:09	17° ∺ 14'10	26°29'14	desc. node	15602 Dec 27 23:03	13° ≈ 38'11	
retrograde	15602 Feb 09 15:42	24° ¥ 22'47		evening max el	15603 Jan 08 07:50	27° ≈ 53′20	25°07'15
evening set	15602 Feb 16 00:51	22°) 43'51			15603 Jan 10 17:18	0° ∀	
min. Earth dist.	15602 Feb 20 05:36	20° ₩ 06'28	0.58431 AU	retrograde	15603 Jan 22 03:34	4°) 49'14	
inferior conj	15602 Feb 23 09:10	17°) 45′24		evening set	15603 Jan 27 18:30	3°) 38′10	
minimum elong	15602 Feb 23 17:01	17°) € 30'42		min. Earth dist.	15603 Feb 01 20:05	0°) 54'35	0.56461 AU
•	15602 Mar 03 12:29	13° ¥ 15′02	3 20 10	mm. Latin dist.	15603 Feb 03 05:56	30°R≈	0.50401 AC
morning rise							40.521.40
direct	15602 Mar 05 11:56	13°) €01'34		inferior conj	15603 Feb 04 11:06	29°≈12'19	
asc. node	15602 Mar 06 13:16	13° 米 05'33		minimum elong	15603 Feb 04 20:21	28° ≈ 57'17	4°50'50
morning max el	15602 Mar 13 14:34	17° ∺ 01'49	18°25'44	morning rise	15603 Feb 13 00:46	25° ≈ 03'31	
	15602 Mar 22 18:52	0 ° Υ		direct	15603 Feb 15 03:44	24° ≈ 50'40	
morning set	15602 Mar 29 10:15	12° Ƴ 18′03		asc. node	15603 Feb 21 10:41	26° ≈ 51'59	
				morning max el	15603 Feb 24 15:02	29° ≈ 27'14	19°17'04
superior conj	15602 Apr 07 15:34	29° Ƴ '42'40	0°04'16	_	15603 Feb 25 04:06	0° ₩	
minimum elong	15602 Apr 07 15:51	29° Ƴ 43'57	0°03'52	morning set	15603 Mar 13 11:18	26°) 42′17	
behind sun begin	15602 Apr 07 08:49	29° Y °11'37			15603 Mar 15 02:56	0°Υ	
behind sun end	15602 Apr 07 22:53	0° 8 16'12			13003 With 13 02.30	0 1	
bennia sun ena	-	0°8			15(02 M 21 17:00	13° Ƴ 01'35	0025127
	15602 Apr 07 19:21			superior conj	15603 Mar 21 17:08		0°35'37
desc. node	15602 Apr 08 03:53	0° 8 39'06		minimum elong	15603 Mar 21 19:09	13° Y 11′24	0°35'10
max. Earth dist.	15602 Apr 15 03:49	13° 8 03'09	1.40670 AU	desc. node	15603 Mar 26 00:31	21° Y 11'47	
evening rise	15602 Apr 19 11:51	20° 8 20'56		max. Earth dist.	15603 Mar 28 09:56	25° Ƴ 34'55	1.38383 AU
	15602 Apr 25 11:48	Π°			15603 Mar 30 21:19	8° 0	
	15602 May 16 12:32	0 \circ \odot		evening rise	15603 Apr 01 03:19	2° 8 11'11	
evening max el	15602 May 23 21:07	8°522'50	23°28'07		15603 Apr 18 16:14	$\Pi^{\circ}0$	
asc. node	15602 Jun 02 10:38	14° © 33'49		evening max el	15603 May 06 10:34	22° Ⅱ 16'57	24°48'15
retrograde	15602 Jun 03 13:23	14° 5 39'13		retrograde	15603 May 18 05:19	29° Ⅱ 09'33	
evening set	15602 Jun 08 18:34	12°526'10		asc. node	15603 May 20 07:45	28° I I50'50	
min. Earth dist.		6°9546'57	0.68990 AU		15603 May 23 21:56	26° I I45'20	
	15602 Jun 13 13:41			evening set	•		0.60402.411
inferior conj	15602 Jun 14 03:20	5°959'58	2°51'20	min. Earth dist.	15603 May 28 08:43	21° II 42'58	0.68403 AU
minimum elong	15602 Jun 14 01:46	6°905'20	2°50'13	inferior conj	15603 May 29 11:16	20° Ⅱ 14'51	2°26'45
morning rise	15602 Jun 19 08:57	29° Ⅱ 53'37		minimum elong	15603 May 29 09:12	20° Ⅱ 21'43	2°25'24
	15602 Jun 19 05:48	30° Ŗ Ⅱ		morning rise	15603 Jun 03 20:42	14° Ⅱ 17'37	
direct	15602 Jun 23 14:48	28° Ⅱ 12'47		direct	15603 Jun 07 14:50	12° ∏ 56'42	
	15602 Jun 28 10:15	0 \circ \odot		morning max el	15603 Jun 14 21:20	16° Ⅱ 57'46	19°35'03
morning max el	15602 Jul 01 19:52	2° 5 53'39	20°42'50	desc. node	15603 Jun 22 01:12	25° Ⅱ 34'26	
desc. node	15602 Jul 05 04:03	6° ॐ 32'49			15603 Jun 25 05:16	0 \circ \odot	
	15602 Jul 22 02:39	$0^{\circ}\Omega$		greatest brilliancy	15603 Jun 27 14:24	3° 5 26'49	-0.6m
morning set	15602 Jul 31 10:09	14° Ω 09'31		morning set	15603 Jul 10 13:38	23°900'25	******
max. Earth dist.	15602 Aug 08 18:28	27°Ω20'00	1.43627 AU	morning set	15603 Jul 15 02:31	0° Ω	
max. Earth dist.			1.43027 AU	Foodb died			1 45005 ATT
	15602 Aug 10 10:02	0° m)		max. Earth dist.	15603 Jul 22 08:46	11° Ω 20′15	1.45085 AU
	15000 + 15 10 5	00*** 4 ****	1042101		15000 X 1 00 15 15	100 012:25	2006:22
superior conj	15602 Aug 15 10:28	8° Mp 15'40		superior conj	15603 Jul 26 17:03	18° Ω 13'59	
minimum elong	15602 Aug 15 18:10	8° m ,47'50	1°42'37	minimum elong	15603 Jul 26 22:54	18° Ω 37'21	2°07'17
evening rise	15602 Aug 27 15:16	29° Mp 16'26			15603 Aug 02 23:25	0° m	
	15602 Aug 28 01:10	0∘ ⊽		evening rise	15603 Aug 09 16:35	11°Mp08'22	
asc. node	15602 Aug 29 11:12	2° ≏ 29'47		asc. node	15603 Aug 16 07:51	22° m 11'49	
evening max el	15602 Sep 13 05:38	25° ഫ 02'55	18°01'39		15603 Aug 21 05:48	0∘ ⊽	
retrograde	15602 Sep 19 20:11	28° ≏ 27'55		evening max el	15603 Aug 27 20:30	8° £ 31'23	18°08'50
evening set	15602 Sep 22 06:42	27° ♀ 59'38		retrograde	15603 Sep 03 05:13	11° £ 52'16	
inferior conj	15602 Sep 28 23:23	22° ♀ 55'25	0°38'05	evening set	15603 Sep 05 05:15 15603 Sep 06 00:17	11° ⊆ 10'52	
minimum elong	15602 Sep 28 23:23 15602 Sep 29 00:32	22° £ 52'37	0°37'55	inferior conj	15603 Sep 00 00.17 15603 Sep 12 03:20	5° £ 49'29	1°40'23
•	=		0 3133		-		
desc. node	15602 Oct 01 00:56	20° ♀ 52'47	0.61240.437	minimum elong	15603 Sep 12 05:35	5° £ 43'14	1°39'40
min. Earth dist.	15602 Oct 02 00:20	19° ≏ 56'35	0.61348 AU	min. Earth dist.	15603 Sep 14 17:20	2° ≏ 58′20	0.63568 AU

daga mada	15602 Can 17 22:22	200 m 5 412 4		minimum alana	15604 Aug 25 21:10	19° m 03'18	2022110
desc. node	15603 Sep 17 22:23	29° Mp 54'34		minimum elong	15604 Aug 25 21:10		
	15603 Sep 17 19:44	30°R, M)		min. Earth dist.	15604 Aug 27 19:23	16° m 43'06	0.65533 AU
morning rise	15603 Sep 18 08:53	29° m 33'53		morning rise	15604 Aug 31 15:09	12° m/46'00	
direct	15603 Sep 25 00:04	27° m 02'21		desc. node	15604 Sep 03 19:51	10° m 46'34	
	15603 Oct 02 23:41	0∘ ত		direct	15604 Sep 07 00:43	10° m 08'09	
morning max el	15603 Oct 08 21:27	5° ₾ 02'05	27°44'25	morning max el	15604 Sep 20 08:32	17° m 58'49	26°57'40
	15603 Oct 27 19:28	0°M₊			15604 Sep 30 11:23	0∘ ⊽	
asc. node	15603 Nov 12 09:23	27°M51'06			15604 Oct 19 17:58	0°M₊	
morning set	15603 Nov 12 16:32	28°M26'53		morning set	15604 Oct 26 00:32	11°M34'59	
	15603 Nov 13 11:00	0° ∡ ¹		asc. node	15604 Oct 29 06:10	17°M55'42	
max. Earth dist.	15603 Nov 17 13:45	8° ∡ ³32'58	1.32238 AU	max. Earth dist.	15604 Oct 30 04:38	19°M48'36	1.33677 AU
superior conj	15603 Nov 20 12:17	14° ∡ ′52'18	1°09'13	superior conj	15604 Nov 03 14:08	28°M53'49	0°47'34
minimum elong	15603 Nov 20 09:57	14° ₹ ′39'40	1°09'42	minimum elong	15604 Nov 03 11:59	28°M42'29	0°47'54
evening rise	15603 Nov 27 08:44	29° ∡ ¹49'30			15604 Nov 04 02:40	0° ₹ ¹	
	15603 Nov 27 10:41	0°ਰ		evening rise	15604 Nov 10 18:57	14° ≯ 14'38	
	15603 Dec 13 23:32	0° ≈		evening rise	15604 Nov 18 16:05	0°る	
desc. node	15603 Dec 14 20:00	1° ≈ 09'17		desc. node	15604 Nov 30 17:03	0 3 17° る 23'54	
evening max el	15603 Dec 20 17:45	7°≈56'11	23°26'37	evening max el	15604 Dec 01 06:09	17° る 56'43	21°45'16
retrograde	15604 Jan 03 02:10	14°≈33'02	23 2037	retrograde	15604 Dec 13 13:47	24°る02'09	21 43 10
evening set	15604 Jan 07 13:21	13°≈49'50		evening set	15604 Dec 16 17:44	24 3 02 09	
min. Earth dist.	15604 Jan 14 04:34		0.55029 ATT	-	15604 Dec 25 09:23	23 3 3938 19° る 48'47	5055157
		10° ≈ 41'19	0.55038 AU	inferior conj		19° る 4847	
inferior conj	15604 Jan 15 16:49	9° ≈ 48'33		minimum elong	15604 Dec 25 05:15		
minimum elong	15604 Jan 15 21:50	9° ≈ 41'15	5°49′50	min. Earth dist.	15604 Dec 25 10:07	19° 3 47'46	0.54422 AU
morning rise	15604 Jan 24 07:48	5°≈56'01		morning rise	15605 Jan 02 17:27	16°る00'53	
direct	15604 Jan 27 00:24	5°≈38'28		direct	15605 Jan 06 09:27	15° පි 31'27	
morning max el	15604 Feb 07 01:48	10° ≈ 58'38	20°31'34	morning max el	15605 Jan 18 21:40	21° る 34'32	22°07'45
asc. node	15604 Feb 08 08:03	12°≈15'39		asc. node	15605 Jan 25 05:22	28° る 59'25	
	15604 Feb 20 01:33	0° ∀			15605 Jan 25 22:34	0° ≈	
morning set	15604 Feb 25 18:21	11° ∺ 19'57		morning set	15605 Feb 09 04:53	26° ≈ 04'01	
					15605 Feb 11 01:20	0° ∀	
superior conj	15604 Mar 04 07:25	26° ¥ 53'40	1°00'44				
minimum elong	15604 Mar 04 09:59	27°) €06'44	1°00'29	superior conj	15605 Feb 16 06:50	11° ∺ 09'10	1°19'19
	15604 Mar 05 20:23	0° Y		minimum elong	15605 Feb 16 09:08	11°) €21'17	1°19'24
max. Earth dist.	15604 Mar 09 17:17	7° Ƴ 35'39	1.36166 AU	max. Earth dist.	15605 Feb 20 06:40	19°) €26′23	1.34223 AU
desc. node	15604 Mar 11 21:06	11° Ƴ 41'14		evening rise	15605 Feb 24 14:39	28° ∺ 01'21	
evening rise	15604 Mar 13 13:25	14° Ƴ 47'51			15605 Feb 25 15:28	0° Y	
	15604 Mar 22 07:41	0° 8		desc. node	15605 Feb 26 17:41	2° Y 03'34	
	15604 Apr 12 08:24	$\Pi^{\circ}0$			15605 Mar 15 13:38	0° ႘	
evening max el	15604 Apr 18 00:10	6° Ⅱ 09'08	26°00'15	evening max el	15605 Mar 31 14:06	19° 8 52'04	26°56'30
retrograde	15604 Apr 30 16:35	13° Ⅲ 25'54		retrograde	15605 Apr 13 22:02	27° 8 20'40	
asc. node	15604 May 06 04:59	11° Ⅲ 24′28		evening set	15605 Apr 20 10:20	24° 8 48'44	
evening set	15604 May 06 19:49	10° Ⅲ 55′05		asc. node	15605 Apr 23 02:15	22° 8 20'42	
min. Earth dist.	15604 May 10 23:56	6° Ⅲ 28'33	0.67359 AU	min. Earth dist.	15605 Apr 24 09:12	20° 8 56'11	0.65891 AU
inferior conj	15604 May 12 15:22	4° Ⅱ 25'02	1°51'00	inferior conj	15605 Apr 26 13:20	18° 8 25'22	1°03'11
minimum elong	15604 May 12 13:13	4° Ⅱ 31'45	1°49'36	minimum elong	15605 Apr 26 11:47	18° 8 29'52	1°02'03
8	15604 May 16 13:10	30°R₩		morning rise	15605 May 02 14:38	12° 8 50'46	
morning rise	15604 May 18 07:20	28° 8 38'14		direct	15605 May 05 12:05	12° 8 05'04	
direct	15604 May 21 14:38	27° 8 36'02		morning max el	15605 May 11 19:59	15° 8 23'24	18°07'10
	15604 May 26 23:10	0°Ⅱ		morning man or	15605 May 22 14:39	0°Ⅱ	10 07 10
morning max el	15604 May 28 05:52	1° Ⅱ 09'24	18°42'44	desc. node	15605 May 25 19:11	5° Ⅱ 04'02	
desc. node	15604 Jun 07 22:15	15° Ⅱ 07'38	10 12 11	morning set	15605 May 30 16:58	12° Д 58'48	
dese. Hode	15604 Jun 17 14:12	0°95		morning set	15605 Jun 10 08:17	0°95	
morning set	15604 Jun 19 02:52	2° © 22'52			13003 Juli 10 00.17	0 3	
max. Earth dist.	15604 Jul 04 03:16	25° © 47'19	1.45867 AU	superior conj	15605 Jun 14 15:40	6°546'57	2000/48
max. Lattii dist.	13004 341 04 03.10	23 34/1)	1.43007 AC	minimum elong	15605 Jun 14 08:02	6°917'01	2°01'11
superior conj	15604 Jul 05 05:55	27° © 31'22	2012154	max. Earth dist.	15605 Jun 16 23:53	10°526'54	1.45904 AU
	15604 Jul 05 04:48	27°526'58		max. Earth dist.	15605 Jun 29 14:14	0°Ω	1.43904 AO
minimum elong	15604 Jul 05 04:48 15604 Jul 06 19:57	2/°926'38 0°Ω	4 1743	evening rise	15605 Jun 30 18:38	0° 37 1° Ω 49'44	
				-			0.7
evening rise	15604 Jul 20 17:25	21° Ω 57'23		greatest brilliancy	15605 Jul 12 19:03	20° Ω 12'40	-0.7m
, , , , , , , , , , , , , , , , , , , ,	15604 Jul 25 18:19	0° M)	0.0		15605 Jul 19 15:47	0° m/2 111 1	
greatest brilliancy	15604 Jul 26 23:33	1° Mp 56'13	-0.9m	asc. node	15605 Jul 20 01:16	0° mp 31'11	10015125
asc. node	15604 Aug 02 04:32	11° Tp 34'30	10022117	evening max el	15605 Jul 24 19:14	6° Mp 04'08	19°15'26
evening max el	15604 Aug 10 09:53	22° m 13'58	18°33'45	retrograde	15605 Jul 31 18:44	9° m 55'55	
retrograde	15604 Aug 16 21:46	25° m 43'48		evening set	15605 Aug 04 08:38	8° Mp 41'36	
evening set	15604 Aug 20 02:00	24° m/ 46'43	2024:2-	inferior conj	15605 Aug 09 18:49	2° m 51'19	
inferior conj	15604 Aug 25 18:55	19° m 10'10	2°24'07	minimum elong	15605 Aug 09 20:27	2°Mp46'00	2°51'11

min. Earth dist.	15605 Aug 11 05:04	0° m 59'49	0.67123 AU	asc. node	15606 Jul 06 22:05	18° Ω 52'43	
iiiii. Lattii dist.	15605 Aug 11 03:04 15605 Aug 11 23:58	30°RΩ	0.07123 AC	evening max el	15606 Jul 07 22:52	19° Ω 56'51	20°12'36
morning rise	15605 Aug 15 07:37	26° Ω 25'07		retrograde	15606 Jul 15 17:39	24° Ω 22'31	20 12 30
direct	15605 Aug 21 08:05	23° Ω 49'46		evening set	15606 Jul 19 17:48	22°Ω50'30	
desc. node	15605 Aug 21 17:18	23° Ω 50'20		inferior conj	15606 Jul 25 00:18	16°Ω47'54	3°06'15
	15605 Sep 01 12:31	0°m		minimum elong	15606 Jul 25 01:02	16° Ω 45'24	3°05'33
morning max el	15605 Sep 02 19:45	1° m 16'39	25°47'13	min. Earth dist.	15606 Jul 25 20:37	15° Ω 38'36	0.68262 AU
S	15605 Sep 24 12:01	0∘ <u>⊽</u>		morning rise	15606 Jul 30 07:55	10° Ω 24'01	
morning set	15605 Oct 08 18:35	24° ≏ 04'30		direct	15606 Aug 04 21:10	7° Ω 58'25	
C	15605 Oct 11 22:56	0°M		desc. node	15606 Aug 08 14:41	8° Ω 52'42	
max. Earth dist.	15605 Oct 12 10:03	0°M52'53	1.35616 AU	morning max el	15606 Aug 16 06:39	14° Ω 47'28	24°22'38
asc. node	15605 Oct 16 02:53	8° M .04'47		•	15606 Aug 28 17:38	0° m)	
					15606 Sep 17 09:14	0∘ ত	
superior conj	15605 Oct 18 07:53	12°MJ30'11	0°20'06	morning set	15606 Sep 20 18:40	5° ≏ 46'58	
minimum elong	15605 Oct 18 06:44	12°M24'19	0°20'23	max. Earth dist.	15606 Sep 24 09:30	12° ≙ 10′01	1.37903 AU
evening rise	15605 Oct 26 02:30	28°M31'16					
	15605 Oct 26 19:45	0° ∡ ¹		superior conj	15606 Oct 01 14:16	25° ≙ 33'59	-0°12'30
evening max el	15605 Nov 13 05:44	28° ∡ ¹28'50	20°18'08	minimum elong	15606 Oct 01 15:05	25° ≙ 37'58	0°12'03
	15605 Nov 14 21:16	0°ප		behind sun begin	15606 Oct 01 10:30	25° ≙ 15'56	
desc. node	15605 Nov 17 14:11	1° る 57'15		behind sun end	15606 Oct 01 19:40	26° ഫ 00'03	
retrograde	15605 Nov 24 00:54	3° る 51'25		asc. node	15606 Oct 02 23:32	28° ≙ 14'57	
evening set	15605 Nov 26 06:13	3° る 38'49			15606 Oct 03 21:04	0° M	
	15605 Dec 04 14:44	30° ₹ ズ		evening rise	15606 Oct 10 05:01	12°M33'53	
inferior conj	15605 Dec 05 02:16	29° ∡ ⁴42'59	-5°00'29		15606 Oct 19 12:47	0° ∡ ¹	
minimum elong	15605 Dec 04 16:25	29° ∡ 757'31	4°57'12	evening max el	15606 Oct 26 19:49	9° ∡ 750′17	19°12'20
min. Earth dist.	15605 Dec 06 16:01	28° ∡ ¹47'17	0.54740 AU	desc. node	15606 Nov 04 11:24	14° ∡ 726′24	
morning rise	15605 Dec 13 02:03	25° х¹ 41′05		retrograde	15606 Nov 05 00:22	14° × 727'19	
direct	15605 Dec 17 19:00	24° ₹ ′53′18		evening set	15606 Nov 06 21:33	14° ⊀ 16'31	
	15605 Dec 29 14:21	0°ප		inferior conj	15606 Nov 15 09:19	10° ∡ ¹05′02	-3°25'02
morning max el	15605 Dec 31 07:39	1° る 32'28	23°56'56	minimum elong	15606 Nov 15 00:56	10° ∡ 19'08	3°21'14
asc. node	15606 Jan 12 02:38	16° る 44'45		min. Earth dist.	15606 Nov 18 01:59	8° ∡ 16'45	0.55938 AU
	15606 Jan 19 11:27	0° ≈		morning rise	15606 Nov 23 01:51	5° ∡ ³31′28	
morning set	15606 Jan 24 16:48	10° ≈ 47'42		direct	15606 Nov 28 15:37	4° ∡ 19'58 −	
				morning max el	15606 Dec 12 17:23	11° ∡ ¹28'47	25°41'58
superior conj	15606 Jan 31 12:27	25°≈39'05	1°31'27	_	15606 Dec 26 21:31	0°ਰ	
minimum elong	15606 Jan 31 13:58	25°≈47'22	1°31'54	asc. node	15606 Dec 29 23:48	5°る16'27	
Post Pos	15606 Feb 02 12:43	0° ∀	1.22605.137	morning set	15607 Jan 09 04:18	25° පි 26'03	
max. Earth dist.	15606 Feb 03 03:40	1° ∺ 20′02	1.32685 AU		15607 Jan 11 06:38	0° ≈	
evening rise	15606 Feb 08 03:29	11°) (41'56			15(07.1 15.21.5)	10017102	1027122
desc. node	15606 Feb 13 14:17	22° 升 13'38 0° Ƴ		superior conj	15607 Jan 15 21:56	10°≈17'03	1°37'22
	15606 Feb 17 22:35 15606 Mar 10 23:58	0°8		minimum elong max. Earth dist.	15607 Jan 15 22:27	10°≈19'51	1°38'04 1.31627 AU
evening max el	15606 Mar 14 03:01	3° 8 13'08	27020142	evening rise	15607 Jan 17 07:10 15607 Jan 23 01:06	13°≈20'57 25°≈42'52	1.31027 AU
retrograde	15606 Mar 27 20:45	10° 8 43'51	21 29 42	evening rise	15607 Jan 25 03:17	23 ≈ 42 32 0° H	
evening set	15606 Apr 03 15:12	8° 8 17'17		desc. node	15607 Jan 31 10:56	12° ∺ 06′08	
min. Earth dist.	15606 Apr 07 10:25	4° 8 55'27	0.64051 AU	desc. node	15607 Feb 11 10:07	0° Υ	
asc. node	15606 Apr 09 23:36	2° 8 15'22	0.04031710	evening max el	15607 Feb 24 12:55	16° Y 00'17	27°33'16
inferior conj	15606 Apr 10 02:27	2° 8 07'53	0°02'15	retrograde	15607 Mar 10 11:53	23° Υ 26'13	27 33 10
minimum elong	15606 Apr 10 02:23	2° 8 08'02	0°01'51	evening set	15607 Mar 17 07:52	21°Υ12'26	
transit middle	15606 Apr 10 02:23	2° 8 08'02	0°01'51	min. Earth dist.	15607 Mar 21 02:09	18° Υ 15'28	0.61932 AU
transit begin	15606 Apr 09 23:17	2° 8 16'11		inferior conj	15607 Mar 24 03:32	15° Y 24'55	
transit end	15606 Apr 10 05:29	1° 8 59'54		minimum elong	15607 Mar 24 06:02	15° Ƴ 19'04	1°11'08
	15606 Apr 12 04:55	30° R Υ		asc. node	15607 Mar 27 20:59	12° Υ 13'36	
morning rise	15606 Apr 16 15:50	26° Ƴ 47'57		morning rise	15607 Mar 31 07:19	10° Y 22'20	
direct	15606 Apr 19 04:31	26° Ƴ 15'48		direct	15607 Apr 02 12:35	10° Y ′00′23	
morning max el	15606 Apr 25 13:13	29° Ƴ 31'16	17°48'48	morning max el	15607 Apr 09 06:35	13° Y 24'39	17°48'06
	15606 Apr 26 00:44	0°8		•	15607 Apr 20 15:45	0° ႘	
morning set	15606 May 12 10:14	24° 8 52'01		morning set	15607 Apr 25 02:05	7° 8 48'20	
desc. node	15606 May 12 15:59	25° 8 16'19		desc. node	15607 Apr 29 12:42	15° 8 39'37	
	15606 May 15 11:18	$\Pi^{\circ}0$					
				superior conj	15607 May 06 12:15	27° 8 41'20	-0°54'19
superior conj				minimum alana	15607 May 06 07:11	27° 8 20'00	0°54'15
	15606 May 25 14:42	16° Ⅱ 42'41	-1°31'34	minimum elong	13007 Way 00 07.11	27 02000	0 5 1 15
minimum elong	15606 May 25 14:42 15606 May 25 06:23	16°∏42'41 16°∏09'07		minimum elong	15607 May 07 21:16	0° Ⅱ	0 3 1 13
minimum elong max. Earth dist.	•	16° Ⅱ 09'07		max. Earth dist.	-		1.43810 AU
•	15606 May 25 06:23	16° Ⅱ 09'07	1°31'28	C	15607 May 07 21:16	Π°	
•	15606 May 25 06:23 15606 May 30 19:37	16°Щ09'07 25°Щ01'00	1°31'28	max. Earth dist.	15607 May 07 21:16 15607 May 13 11:50	0°П 9°П12'53	
max. Earth dist.	15606 May 25 06:23 15606 May 30 19:37 15606 Jun 02 23:46	16°∏09'07 25°∏01'00 0°©	1°31'28	max. Earth dist.	15607 May 07 21:16 15607 May 13 11:50 15607 May 20 20:26	0°П 9°П12'53 20°П51'43	

evening max el	15607 Jun 20 20:28	3° Ω 49'29	21°22'39		15608 May 19 06:09	0°©	
asc. node	15607 Jun 23 18:58	6°Ω26'52	21 22 37	evening max el	15608 Jun 02 13:23	17°9543'04	22°41'16
retrograde	15607 Jun 29 16:29	8° Ω 57'25		asc. node	15608 Jun 09 15:58	22°958'48	22 41 10
evening set	15607 Jul 04 03:28	7°Ω08'18		retrograde	15608 Jun 12 13:36	23°935'29	
inferior conj	15607 Jul 09 09:01	0°Ω54'53	3°08'52	evening set	15608 Jun 17 11:58	21°930'43	
minimum elong	15607 Jul 09 08:47	0°Ω55'43	3°08'04	inferior conj	15608 Jun 22 18:58	15°908'30	3°00'45
min. Earth dist.	15607 Jul 09 15:55	0°Ω30'50	0.68925 AU	minimum elong	15608 Jun 22 17:50	15°9512'26	2°59'45
mm. Eurin dist.	15607 Jul 10 00:47	30°R.55	0.00)23 110	min. Earth dist.	15608 Jun 22 12:50	15°S29'49	0.69107 AU
morning rise	15607 Jul 14 13:52	24°536'16		morning rise	15608 Jun 27 23:33	8°957'06	0.07107710
direct	15607 Jul 19 14:59	22°\$25'36		direct	15608 Jul 02 12:24	7° 5 04'42	
desc. node	15607 Jul 26 12:00	25°\$28'37		morning max el	15608 Jul 11 09:15		21°27'39
morning max el	15607 Jul 29 18:16	28° © 26'12	22°53'17	desc. node	15608 Jul 12 09:15	13°915'07	21 2/3)
morning max ci	15607 Jul 31 06:11	0°Ω	22 33 17	uese. Houe	15608 Jul 25 10:38	0°Ω	
		0° m)		mamina aat		26° Ω 16'19	
morning got	15607 Aug 22 09:36 15607 Sep 01 20:36	16° Mg 32'13		morning set	15608 Aug 11 22:29	0° m	
morning set	15607 Sep 01 20.36 15607 Sep 06 08:42	-	1 40202 ATT	may Earth dist	15608 Aug 14 06:54	~	1 42522 ATT
max. Earth dist.		24°Mp04'48 0°Ω	1.40303 AU	max. Earth dist.	15608 Aug 18 12:58	6° My 52'42	1.42533 AU
	15607 Sep 09 18:49	0 ==		aumorior aoni	15608 Aug 26 00:20	19° m 25'25	192424
superior conj	15607 Sep 14 05:11	7° £ 55'27	0040127	superior conj minimum elong	15608 Aug 26 00:20 15608 Aug 26 07:05	19 m 54'27	
1	15607 Sep 14 03.11 15607 Sep 14 08:56	8° £ 12'29	0°47'47	minimum elong	Č	19 1 1) 3427	1 23 43
minimum elong asc. node		8 ≗ 12 29 18° ≗ 22'14	0 4/4/	asc. node	15608 Sep 01 01:04	0 <u>≈</u> 8° <u>≈</u> 23'17	
	15607 Sep 19 20:09	18 ≗ 22 14 26° ₽ 14'06			15608 Sep 05 16:47	8 22 23 17 9° 2 22'16	
evening rise	15607 Sep 23 23:25	26° 3 214'06 0°M		evening rise	15608 Sep 06 05:48	9° 22 22716	
	15607 Sep 25 22:59		10020142		15608 Sep 18 09:42		10005157
evening max el	15607 Oct 09 22:10	21°M59'32	18°28'43	evening max el	15608 Sep 22 08:36	4°M47'50	18°05'57
retrograde	15607 Oct 17 18:25	25°M.58'10		retrograde	15608 Sep 29 06:47	8°M20'48	
evening set	15607 Oct 19 17:47	25°M43'48		evening set	15608 Oct 01 12:51	7°M58'35	
desc. node	15607 Oct 22 08:43	24°M44'06	1040112	desc. node	15608 Oct 08 06:04	3°M25'34	0007155
inferior conj	15607 Oct 27 13:26	21°M11'52		inferior conj	15608 Oct 08 14:51	3°M05'38	
minimum elong	15607 Oct 27 09:29	21°M19'36	1°37'59	minimum elong	15608 Oct 08 14:38	3°M06'08	0°06'27
min. Earth dist.	15607 Oct 30 18:40	18°M41'16	0.57805 AU	transit middle	15608 Oct 08 14:38	3°M06'08	0°06'27
morning rise	15607 Nov 03 21:43	16°M01'03		transit begin	15608 Oct 08 11:33	3°M 13'07	
direct	15607 Nov 10 02:58	14°M22'28	25002154	transit end	15608 Oct 08 17:42	2°M.59'08	0.60024.433
morning max el	15607 Nov 24 09:31	21°M54'44	27°03'54	min. Earth dist.	15608 Oct 11 19:57	0°M11'10	0.60034 AU
	15607 Dec 01 12:38	0° ⊼ ¹			15608 Oct 12 01:08	30° ₹ Ω	
asc. node	15607 Dec 16 20:53	24° ₹ 22'01		morning rise	15608 Oct 15 13:10	27° ₾ 22'29	
	15607 Dec 19 18:47	0°る		direct	15608 Oct 22 03:20	25° ≏ 18'26	
morning set	15607 Dec 24 13:36	9° る 53'39			15608 Nov 01 22:00	0°M	27050100
	15605 D 21 00 14	240756122	1027112	morning max el	15608 Nov 05 09:37	3°M07'06	27°50'09
superior conj	15607 Dec 31 09:14	24° ろ 56'33			15608 Nov 25 03:09	0° ⊼ ¹	
minimum elong	15607 Dec 31 08:41	24° る 53'26		asc. node	15608 Dec 02 17:53	13° 🗷 52'40	
max. Earth dist.	15607 Dec 31 14:18	25° ♂ 24'52	1.31088 AU	morning set	15608 Dec 07 18:50	24° ∡ *06'15	
	15608 Jan 02 15:34	0°≈ 0°≈ -57143		E 41 E 4	15608 Dec 10 12:53	0°る	1 21007 ATT
evening rise	15608 Jan 07 05:01	9°≈57'43		max. Earth dist.	15608 Dec 13 21:40	/ 625 18	1.31097 AU
1 1	15608 Jan 17 10:23	0°) {			15(00 D 14 20 20	00=2000	1021105
desc. node	15608 Jan 18 07:41	1°) 33'34 28°) 02'04	27002145	superior conj	15608 Dec 14 20:29	9° る 32'32	
evening max el	15608 Feb 06 17:26	28° Υ 02'04 0° Υ	27°02'45	minimum elong	15608 Dec 14 18:59	9° る 24'12	1°31′50
. 1	15608 Feb 08 22:17			evening rise	15608 Dec 21 13:08	24° る 21'43	
retrograde	15608 Feb 20 18:07	5°Υ18'21 3°Υ25'06		dono r-d-	15608 Dec 24 04:57	0°≈ 20°226120	
evening set	15608 Feb 27 09:12		0.50602.411	desc. node	15609 Jan 04 04:30	20°≈26'30	
min. Earth dist.	15608 Mar 02 07:44	0° Υ 43'49	0.59683 AU	avanie 1	15609 Jan 10 14:44	0°) {	25057146
	15608 Mar 03 05:47	30° ₹ ₩	2027120	evening max el	15609 Jan 18 14:18	9°) 11'34	25°57'46
inferior conj	15608 Mar 05 12:57	28°) €06'59		retrograde	15609 Feb 01 13:06	16°) 14'54	
minimum elong	15608 Mar 05 18:53	27°) 54'53	2°35'07	evening set	15609 Feb 07 15:25	14°) 47′55	0.55555
morning rise	15608 Mar 13 08:04	23°) (24'17		min. Earth dist.	15609 Feb 12 03:25	12°) €09'44	0.57537 AU
asc. node	15608 Mar 13 18:22	23°) €18'28		inferior conj	15609 Feb 15 03:05	10°) €03'45	
direct	15608 Mar 15 08:19	23°) €08'53	1000 (110	minimum elong	15609 Feb 15 11:59	9°) 48′03	4°03'34
morning max el	15608 Mar 22 20:35	26° ¥ 53'15	18°06'12	morning rise	15609 Feb 23 11:36	5°) 42′25	
•	15608 Mar 25 14:30	0°Υ 21° W 20142		direct	15609 Feb 25 11:27	5°) €29'45	
morning set	15608 Apr 07 10:41	21° Y 30'42		asc. node	15609 Feb 28 15:47	6°) €03'45	1004446
	15608 Apr 12 00:22	0°8		morning max el	15609 Mar 06 03:08	9°) 44′50	18°44'49
desc. node	15608 Apr 15 09:24	6° 8 09'56			15609 Mar 19 07:39	0°Υ 5°Ω 12120	
	15000 1 1 1 1 1 1 1	001.1	001617	morning set	15609 Mar 22 06:55	5° Ƴ 43′20	
superior conj	15608 Apr 17 09:01	9° 8 43'21			1500000	000000	0010:15
minimum elong	15608 Apr 17 07:39	9° 8 37'19		superior conj	15609 Mar 31 01:20	22° Y 37'37	0°18'16
max. Earth dist.	15608 Apr 24 23:21		1.41914 AU	minimum elong	15609 Mar 31 02:32	22°\partial 43'12	0°17'49
	15608 Apr 29 07:52	0°П		desc. node	15609 Apr 02 06:03	26° Y 42'50	
evening rise	15608 Apr 30 02:54	1° Ⅱ 16'43			15609 Apr 04 01:13	0°8	

max. Earth dist.	15609 Apr 07 07:03 15609 Apr 11 06:29	5° と 46'47 12° と 37'08	1.39705 AU	evening rise	15610 Mar 24 06:18 15610 Mar 27 05:36	24° Y 48'26 0° 엉	
Č	15609 Apr 22 02:47	0°Щ			15610 Apr 15 17:48	0°Щ	
	15609 May 14 13:32	0 \circ \odot		evening max el	15610 Apr 28 17:12	15° Ⅲ 32'27	25°20'14
evening max el	15609 May 16 03:41	1° 5 38'01	24°02'46	retrograde	15610 May 10 21:31	22° II 36'03	
retrograde	15609 May 27 07:37	8° © 10'29		asc. node	15610 May 14 10:12	21° Ⅱ 44′26	
asc. node	15609 May 27 13:03	8° © 10'15		evening set	15610 May 16 18:55	20° Ⅱ 08'21	
evening set	15609 Jun 01 17:41	5° © 52'28		min. Earth dist.	15610 May 21 02:42	15° Ⅱ 21'36	0.68023 AU
min. Earth dist.	15609 Jun 06 09:08	0° 5 28'54	0.68804 AU	inferior conj	15610 May 22 10:44	13° Ⅱ 37'41	2°12'59
	15609 Jun 06 17:39	30°Ŗ Ⅱ		minimum elong	15610 May 22 08:35	13° ∏ 44'42	2°11'36
inferior conj	15609 Jun 07 04:11	29° Ⅱ 24'10	2°42'13	morning rise	15610 May 27 22:38	7° Ⅱ 44'51	
minimum elong	15609 Jun 07 02:22	29° ∏ 30′21	2°41'00	direct	15610 May 31 12:08	6° Ⅱ 32'01	
morning rise	15609 Jun 12 11:06	23° Ⅱ 21′26		morning max el	15610 Jun 07 11:01	10° Ⅱ 19'15	19°10'48
direct	15609 Jun 16 11:58	21° Ⅱ 48'53		desc. node	15610 Jun 16 03:32	21° ∏ 09'34	
morning max el	15609 Jun 24 06:26	26° Ⅱ 11'10	20°12'09	greatest brilliancy	15610 Jun 20 07:15	27° Ⅱ 13'21	-0.7m
	15609 Jun 27 17:36	0°©			15610 Jun 22 03:45	0.62	
desc. node	15609 Jun 29 06:26	1°953'21		morning set	15610 Jul 01 11:00	14°9512'38	
	15609 Jul 18 19:34	0°Ω		E d E	15610 Jul 11 15:39	0°Ω	1 45516 433
morning set	15609 Jul 22 05:47	5° Ω 14'29	1 44224 ATT	max. Earth dist.	15610 Jul 14 17:18	4° Ω 47'49	1.45516 AU
max. Earth dist.	15609 Aug 01 00:20	20° Ω 31'53	1.44334 AU	aumorior comi	15610 Iul 17 10:00	00 022150	2012117
	15(00 A 0(20.1(200 05(122	1054147	superior conj	15610 Jul 17 18:02	9° Ω 33'50 9° Ω 47'02	
superior conj minimum elong	15609 Aug 06 20:16 15609 Aug 07 03:51	29° \O 56'33 0° \O 27'34		minimum elong	15610 Jul 17 21:23 15610 Jul 30 11:33	9 3 2 4 7 0 2 0° m)	2 12 33
minimum eiong	15609 Aug 07 05.51 15609 Aug 06 21:07	0°M)	1 3441	evening rise	15610 Aug 01 10:31	0 yu 3°Mo 11'56	
evening rise	15609 Aug 10 19:13	21° Mp 45'40		asc. node	15610 Aug 10 10:05	17° Mp 48'14	
asc. node	15609 Aug 13 13:15 15609 Aug 23 13:26	28° M) 13'36		asc. node	15610 Aug 19 00:14	0° ⊽	
asc. Houc	15609 Aug 24 14:21	0∘ ⊽		evening max el	15610 Aug 20 13:25	0 = 1° ⊆ 39'32	18°17'14
evening max el	15609 Sep 05 22:54	ა <u>—</u> 18° ჲ 04'22	18°02'30	retrograde	15610 Aug 26 22:24	5° Ω 02'43	10 17 14
retrograde	15609 Sep	21° ≏ 25'40	10 02 30	evening set	15610 Aug 29 21:19	4° £ 14'49	
evening set	15609 Sep 14 23:50	20° ♀ 52'00		evening sec	15610 Sep 03 17:49	30°R.M)	
inferior conj	15609 Sep 21 10:16	15° Ω 40'04	1°06'56	inferior conj	15610 Sep 04 19:35	28° m) 46'25	2°01'03
minimum elong	15609 Sep 21 12:03	15° Ω 35'26	1°06'28	minimum elong	15610 Sep 04 21:57	28° m) 39'35	2°00'16
min. Earth dist.	15609 Sep 24 07:00	12° ≏ 42'30	0.62320 AU	min. Earth dist.	15610 Sep 07 03:53	26° m) 04'05	0.64445 AU
desc. node	15609 Sep 25 03:28	11° ≏ 52'46		morning rise	15610 Sep 10 20:59	22° m/26'11	
morning rise	15609 Sep 27 21:50	9° ॒ 33'38		desc. node	15610 Sep 12 00:55	21° m/35'27	
direct	15609 Oct 04 14:14	7° ≙ 10'08		direct	15610 Sep 17 10:09	19° m 51'12	
morning max el	15609 Oct 18 16:15	15° ≏ 07'55	27°57'12	morning max el	15610 Oct 01 02:40	27° m 48'27	27°28'05
	15609 Oct 30 19:43	0° M			15610 Oct 03 04:55	0∘ ⊽	
	15609 Nov 17 17:38	0° ∡ ¹			15610 Oct 24 13:39	0° M	
asc. node	15609 Nov 19 14:50	3° ∡ ¹41'25		morning set	15610 Nov 05 08:15	21°M25'34	
morning set	15609 Nov 21 17:55	7° ∡ ′59'11		asc. node	15610 Nov 06 11:39	23°M41'36	
max. Earth dist.	15609 Nov 27 01:34	19° ∡ 14'13	1.31662 AU		15610 Nov 09 13:51	0° ∡	
				max. Earth dist.	15610 Nov 09 22:08	0° х 43′02	1.32785 AU
superior conj	15609 Nov 29 05:46	24° ∡ °00'02	1°18'57				
minimum elong	15609 Nov 29 03:37	23° ∡ ′48′11	1°19'33	superior conj	15610 Nov 13 10:57	8° ∡ 12'23	1°00'46
	15609 Dec 01 22:53	0°ಕ		minimum elong	15610 Nov 13 08:37	7° ∡ ¹59'49	1°01'10
evening rise	15609 Dec 05 23:34	8°る50'25		evening rise	15610 Nov 20 10:23	23°×18'02	
1 1	15609 Dec 16 17:07	0°≈		1 1	15610 Nov 23 14:51	0°る	
desc. node	15609 Dec 22 01:24	8°≈32'33	24025147	desc. node	15610 Dec 08 22:23	25° る 33'52	22042120
evening max el	15609 Dec 31 03:06	19°≈33'10 26°≈21'16	24°25'47	evening max el	15610 Dec 12 12:36	29° ♂ 29'17	22°42'30
retrograde	15610 Jan 13 18:52	26°≈21'16 25°≈22'25		rotro ara da	15610 Dec 13 01:30	0° ≈ 5° ≈ 54'59	
evening set min. Earth dist.	15610 Jan 18 23:14 15610 Jan 24 14:50	23 ≈22 23 22°≈30'51	0.55772 AU	retrograde evening set	15610 Dec 25 12:06 15610 Dec 29 10:00	5°≈21'34	
inferior conj	15610 Jan 26 20:06	22 ≈30 51 21°≈08'58		min. Earth dist.	15611 Jan 05 21:17	1°≈56'51	0.54664 AU
minimum elong	15610 Jan 27 04:24	21 ≈06 36 20°≈56'12		inferior conj	15611 Jan 06 18:49	1°≈26'24	
morning rise	15610 Feb 04 11:33	20 ≈30 12 17°≈07'58	3 20 44	minimum elong	15611 Jan 06 20:10	1°≈24'29	5°59'50
direct	15610 Feb 06 19:11	16°≈53'44		minimum clong	15611 Jan 09 09:24	1 ~2+2) 30°Rる	3 37 30
asc. node	15610 Feb 15 13:10	20°≈33'28		morning rise	15611 Jan 15 07:35	27° そ 38'13	
morning max el	15610 Feb 16 22:06	20 ≈ 33 28 21° ≈ 48'08	19°45'56	direct	15611 Jan 18 09:17	27°る16'37	
	15610 Feb 23 10:15	0° ∀		********	15611 Jan 26 12:39	0°≈	
morning set	15610 Mar 06 10:54	20° ¥ 14'51		morning max el	15611 Jan 30 02:22	2°≈54'59	21°10'14
5	15610 Mar 11 06:20	0°Υ		asc. node	15611 Feb 02 10:32	6° ≈ 33'15	
					15611 Feb 16 10:12	0°) €	
superior conj	15610 Mar 14 08:48	6° Y 12'11	0°47'04	morning set	15611 Feb 18 19:40	4° ¥ 55'53	
minimum elong	15610 Mar 14 11:12	6° Y 23′58	0°46'40	-			
desc. node	15610 Mar 20 02:41	17° Ƴ 14'50		superior conj	15611 Feb 26 03:21	20°) 15′14	1°09'25
max. Earth dist.	15610 Mar 20 13:36	18° Ƴ 05'36	1.37421 AU	minimum elong	15611 Feb 26 05:53	20°) €28'20	1°09'17

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	15611 Mar 02 23:09	0° Y		minimum elong	15612 Feb 10 07:43	4° ¥ 48'33	1°25'29
Fauth 4int		29° ¥ 59'21	1 25202 ATT	Č		11°) 48'18	1.33507 AU
max. Earth dist.	15611 Mar 02 23:01		1.35292 AU	max. Earth dist.	15612 Feb 13 15:14		1.33307 AU
evening rise	15611 Mar 06 23:12	7° Υ 41'14		evening rise	15612 Feb 18 05:42	21° ∺ 07'01	
desc. node	15611 Mar 06 23:17	7° Ƴ 41'39		desc. node	15612 Feb 21 19:52	27° ¥ 59′20	
	15611 Mar 19 22:20	9° 8			15612 Feb 22 21:58	0° Y	
evening max el	15611 Apr 11 06:46	29° 8 20'57	26°26'28		15612 Mar 12 19:15	0°8	
Ü	15611 Apr 11 23:01	0°П		evening max el	15612 Mar 23 20:17	12° 8 55'22	27°13'55
retrograde	15611 Apr 24 06:25	6° Ⅱ 44'30		retrograde	15612 Apr 06 09:22	20° 8 26'55	2, 1300
•	-			•	•		
evening set	15611 Apr 30 13:55	4° Ⅱ 12'07		evening set	15612 Apr 13 00:38	17° 8 56'14	
asc. node	15611 May 01 07:26	3° Ⅱ 34'26		min. Earth dist.	15612 Apr 16 21:36	14° 8 17'16	0.65139 AU
min. Earth dist.	15611 May 04 15:30	0° Ⅱ 00'40	0.66784 AU	asc. node	15612 Apr 17 04:44	13° 8 57'52	
	15611 May 04 15:43	30° ₹ 8		inferior conj	15612 Apr 19 07:02	11° 8 37'33	0°38'59
inferior conj	15611 May 06 12:30	27° 8 44'07	1°32'16	minimum elong	15612 Apr 19 06:00	11° 8 40'27	0°38'05
minimum elong	15611 May 06 10:31	27° 8 50'09	1°30'55	morning rise	15612 Apr 25 13:10	6°809'00	
_	•		1 30 33	-	1	_	
morning rise	15611 May 12 08:07	22° 8 02'35		direct	15612 Apr 28 06:36	5° 8 29'36	
direct	15611 May 15 11:04	21° 8 07'50		morning max el	15612 May 04 14:03	8° 8 45'39	17°57'15
morning max el	15611 May 21 22:15	24° 8 33'11	18°25'35		15612 May 19 07:25	Π \circ 0	
	15611 May 26 13:52	Π° 0		desc. node	15612 May 19 21:24	0° Ⅱ 57′26	
desc. node	15611 Jun 03 00:31	10° Ⅲ 53'35		morning set	15612 May 22 11:37	5° Ⅱ 13'17	
morning set	15611 Jun 11 09:45	24° Ⅱ 03'55					
morning set					15612 I 05 17 11	200T1407	1040156
	15611 Jun 15 04:00	0 \circ		superior conj	15612 Jun 05 17:11	28° ∐ 14'07	
				minimum elong	15612 Jun 05 08:31	27° Ⅲ 39'51	1°50'04
superior conj	15611 Jun 27 03:29	18° © 45'27	-2°10'44		15612 Jun 06 19:59	0 \circ \odot	
minimum elong	15611 Jun 26 23:05	18° 5 28'15	2°11'27	max. Earth dist.	15612 Jun 09 09:02	3°959'56	1.45678 AU
max. Earth dist.	15611 Jun 27 13:02	19°522'39	1.45971 AU	evening rise	15612 Jun 21 18:21	23° © 10'55	
	15611 Jul 04 08:31	0°Ω			15612 Jun 26 05:22	0°Ω	
				4 41 311			0.6
evening rise	15611 Jul 13 00:50	13° Ω 35'54		greatest brilliancy	15612 Jul 05 15:05	14° Ω 06'47	-0.6m
greatest brilliancy	15611 Jul 22 03:37	27° Ω 51'40	-0.8m	asc. node	15612 Jul 14 03:33	25° Ω 44'54	
	15611 Jul 23 13:02	0° m y		evening max el	15612 Jul 17 08:22	29° Ω 18'31	19°38'00
asc. node	15611 Jul 28 06:47	7° mp 01'30			15612 Jul 18 01:37	0° m)	
evening max el	15611 Aug 04 01:19	15° m) 26'27	18°49'24	retrograde	15612 Jul 24 15:23	3° m 23'36	
retrograde	15611 Aug 10 17:18	19° m 04'30		evening set	15612 Jul 28 09:28	2° m/02'00	
•	•			evening set		2 11/02 00 30°RΩ	
evening set	15611 Aug 14 01:29	18° Mp 00'20			15612 Jul 30 14:41		
inferior conj	15611 Aug 19 15:08	12° m) 17'39	2°37'40	inferior conj	15612 Aug 02 17:44	26° Ω 06′29	2°59'30
minimum elong	15611 Aug 19 17:10	12°Mp11'13	2°36'54	minimum elong	15612 Aug 02 19:01	26° Ω 02'15	2°58'47
min. Earth dist.	15611 Aug 21 09:34	10° Mp 04'29	0.66257 AU	min. Earth dist.	15612 Aug 03 22:06	24° Ω 32'01	0.67663 AU
morning rise	15611 Aug 25 07:56	5° m 51'38		morning rise	15612 Aug 08 04:02	19° Ω 40'39	
desc. node	15611 Aug 29 22:20	3° m) 24'14		direct	15612 Aug 13 23:59	17° Ω 08'23	
	-						
direct	15611 Aug 31 13:49	3° m 13'54		desc. node	15612 Aug 15 19:45		
morning max el	15611 Sep 13 14:14	10° Mp 57'04	26°30'03	morning max el	15612 Aug 26 01:12	24° Ω 21'24	25°12'19
	15611 Sep 28 18:28	0∘ 亚			15612 Aug 31 03:01	0° m y	
	15611 Oct 17 02:59	0° M			15612 Sep 21 04:24	0∘ ত	
morning set	15611 Oct 19 10:49	4° ጤ 19'05		morning set	15612 Sep 30 21:46	16° ≏ 30'18	
max. Earth dist.	15611 Oct 23 08:54	11°M52'35	1.34447 AU	max. Earth dist.	15612 Oct 04 10:41	22° ♀ 57'09	1.36560 AU
asc. node	15611 Oct 24 08:24	13°M49'06	1.5 110	man. Darun dibu.	15612 Oct 08 03:58	0°M	1.50500110
asc. Houc	13011 Oct 24 08.24	13 11649 00		,			
				asc. node	15612 Oct 10 05:06	3°M59′26	
superior conj	15611 Oct 28 09:43	22°M04'20	0°36'36				
minimum elong	15611 Oct 28 07:52	21°M54'46	0°36'53	superior conj	15612 Oct 10 23:05	5° M 28′16	0°06'50
	15611 Nov 01 04:28	0° ∡ ¹		minimum elong	15612 Oct 10 22:39	5°M26'04	0°07'11
evening rise	15611 Nov 04 19:44	7° ∡ ′40′28		behind sun begin	15612 Oct 10 16:51	4° ጤ 57'25	
8	15611 Nov 16 15:56	0°ප		behind sun end	15612 Oct 11 04:26	5° M 54'47	
avanina may al		9° る 39'32	21905140			21°M51'58	
evening max el	15611 Nov 24 04:47		21 03 49	evening rise	15612 Oct 19 01:27		
desc. node	15611 Nov 25 19:26	11° る 08'40			15612 Oct 23 03:07	0° ∡ 7	
retrograde	15611 Dec 05 22:19	15° る 28'19		evening max el	15612 Nov 05 10:41	20° ∡ ′32'39	19°47'24
evening set	15611 Dec 08 14:38	15° る 11'25		desc. node	15612 Nov 11 16:35	24° ₹ '51'50	
inferior conj	15611 Dec 17 09:38	11° る 19'55	-5°39'10	retrograde	15612 Nov 15 13:01	25° ∡ ³34'58	
minimum elong	15611 Dec 17 02:11	11° る 30'29		evening set	15612 Nov 17 13:10	25° ∡ ¹23'58	
min. Earth dist.	15611 Dec 18 02:48		0.54439 AU	inferior conj	15612 Nov 26 07:11	21° × ⁷ 22'57	-4023100
			0.5 11 37 AU	,			
morning rise	15611 Dec 25 13:58	7°る28'14		minimum elong	15612 Nov 25 21:14	21° ∡ °38′20	4°19'08
direct	15611 Dec 29 16:34	6° る 51'52		min. Earth dist.	15612 Nov 28 10:18	20° ∡ ′03'53	0.55156 AU
morning max el	15612 Jan 11 17:11	13° る 11'50	22°53'29	morning rise	15612 Dec 04 03:49	17° ∡ ′08'58	
asc. node	15612 Jan 20 07:49	23° る 45'09		direct	15612 Dec 09 06:29	16° ∡ 11′20	
	15612 Jan 24 05:12	0° ≈		morning max el	15612 Dec 23 01:48	23° ∡ ¹04'27	24°43'14
morning set	15612 Feb 03 06:59	19° ≈ 40'07			15612 Dec 29 05:51	0°る	·= - ·
morning set				aca nodo			
	15612 Feb 08 02:05	0°) €		asc. node	15613 Jan 06 05:02	11° る 52'10	
					15613 Jan 15 17:34	0° ≈	
superior conj	15612 Feb 10 05:43	4°) €37'47	1°25'14	morning set	15613 Jan 17 18:56	4° ≈ 22'17	

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superior conj	15613 Jan 24 13:15	19° ≈ 12'18	1°34'42		15614 Jan 07 06:14	0°≈	
minimum elong	15613 Jan 24 14:22	19°≈18'23	1°35'17		130113411 07 00.11	0 / 0 \	
max. Earth dist.	15613 Jan 26 15:10	23° ≈ 44'57	1.32172 AU	superior conj	15614 Jan 08 23:45	3°≈51'42	1°38'01
man. Barar alou	15613 Jan 29 13:16	0° ∀	1.021,2110	minimum elong	15614 Jan 08 23:48	3°≈51'59	1°38'48
evening rise	15613 Jan 31 22:39	4°) €57'48		max. Earth dist.	15614 Jan 09 20:48	5°≈49'02	1.31336 AU
desc. node	15613 Feb 07 16:29	18° ¥ 03'09		evening rise	15614 Jan 15 23:15	19°≈05'46	1.51550110
dese. Hode	15613 Feb 14 14:00	0°Υ		evening rise	15614 Jan 21 08:47	0° ∀	
evening max el	15613 Mar 06 08:23	26° Υ '04'42	27°35'20	desc. node	15614 Jan 25 13:10	7°) 46′17	
evening max er	15613 Mar 11 00:06	0°8	27 33 20	dese. Hode	15614 Feb 09 00:59	0° Υ	
retrograde	15613 Mar 20 05:09	3° 8 34'12		evening max el	15614 Feb 16 16:33	8° Υ 34'43	27°24'41
evening set	15613 Mar 27 00:42	1° 8 12'28		retrograde	15614 Mar 02 16:25	15° Y 56'06	2/2441
evening set	15613 Mar 28 14:45	30°RY		evening set	15614 Mar 09 11:12	13°Y50'28	
min. Earth dist.	15613 Mar 30 19:11	28° Υ '01'46	0.63167 AU	min. Earth dist.	15614 Mar 13 06:38	11° Υ 01'26	0.60981 AU
inferior conj	15613 Apr 02 15:31	25° Υ 11'10		inferior conj	15614 Mar 16 10:25	8°Υ14'55	
minimum elong	15613 Apr 02 16:24	25°Υ08'55	0°27'33	minimum elong	15614 Mar 16 14:19	8° Υ 06'19	1°45'37
asc. node	15613 Apr 04 02:05	23° Y 46'12	0 27 33	asc. node	15614 Mar 21 23:29	4°Υ06'28	1 4337
morning rise	15613 Apr 09 10:46	19° Υ 58'00		morning rise	15614 Mar 23 20:42	3° Υ 20'13	
direct	15613 Apr 11 20:01	19° Υ 30'39		direct	15614 Mar 25 23:34	3° Υ 01'22	
morning max el	15613 Apr 18 07:43	22° Υ '48'48	17°46'16	morning max el	15614 Apr 02 00:03	6° Υ 32'44	17°53'25
morning max ci	15613 Apr 24 00:30	0° 8	17 40 10	morning max ci	15614 Apr 17 02:56	0° 8	17 33 23
morning set	15613 May 04 15:18	17° 8 36'17		morning set	•	0° 8 54'33	
desc. node		21° 8 15'29		desc. node	15614 Apr 17 14:59	11° 8 42'25	
desc. node	15613 May 06 18:12	0° Ⅱ		desc. node	15614 Apr 23 14:55	11 042 23	
	15613 May 11 21:19	0-Щ		aumariar aani	15614 Apr. 20 00:54	20° 8 01'46	0027157
avmariar aani	15612 May 17 01:15	8° Ⅱ 35'34	1016117	superior conj	15614 Apr 28 08:54	19° 8 47'06	
superior conj	15613 May 17 01:15	8° П 06'03	1°16'08	minimum elong	15614 Apr 28 05:30	19 O 4706	0 38 00
minimum elong	15613 May 16 18:04	8°Щ06'03 18°Щ26'13		Danila dia	15614 May 04 06:32	0°П 2°П26'40	1 420C1 ATT
max. Earth dist.	15613 May 23 03:22	18°Щ26°13	1.44677 AU	max. Earth dist.	15614 May 05 18:11	12° П 31'54	1.43061 AU
	15613 May 30 12:25	2° © 36'18		evening rise	15614 May 12 01:05	12° Ц 31'34 0° ©	
evening rise	15613 Jun 01 05:03	2°23618 0°Ω			15614 May 23 12:50		21955121
	15613 Jun 19 18:17		20941102	evening max el	15614 Jun 13 05:00	27° © 05'17	21-55/21
evening max el	15613 Jun 30 09:32	13°Ω12'05	20°41'03	4-	15614 Jun 16 11:46	0° Ω 0° Ω 58'14	
asc. node	15613 Jul 01 00:23 15613 Jul 08 14:21	13° Ω 48'18 17° Ω 54'33		asc. node	15614 Jun 17 21:20	2° Ω 31'42	
retrograde	15613 Jul 12 19:04	1/ δι 34 33		retrograde	15614 Jun 22 12:34 15614 Jun 27 04:28	0° Ω 35'28	
evening set	15613 Jul 18 00:52	10° Ω 08'07	3°08'42	evening set	15614 Jun 27 20:14	30°RS	
inferior conj minimum elong	15613 Jul 18 00:32	10° Ω 07'00	3°07'57	inferior conj	15614 Jul 02 10:21	24° © 18'09	3°06'41
min. Earth dist.	15613 Jul 18 15:30	9° Ω 17'40	0.68609 AU	minimum elong	15614 Jul 02 09:44	24°S20'22	3°05'49
morning rise	15613 Jul 23 07:02	3° Ω 46'17	0.00007 AC	min. Earth dist.	15614 Jul 02 11:38	24° © 13'41	0.69065 AU
direct	15613 Jul 28 15:19	1° Ω 26'16		morning rise	15614 Jul 07 14:48	18° © 02'42	0.07003 AC
desc. node	15613 Aug 02 17:07	3° Ω 06'40		direct	15614 Jul 12 10:44	15°959'35	
morning max el	15613 Aug 08 11:57	7° Ω 55'08	23°44'37	desc. node	15614 Jul 20 14:25	20°515'11	
morning man vi	15613 Aug 25 19:11	0° m)	2557	morning max el	15614 Jul 22 00:41	21°537'23	22°16'03
morning set	15613 Sep 12 12:52	27° m) 49'24		morning max cr	15614 Jul 29 05:47	0°Ω	22 10 03
morning set	15613 Sep 13 19:31	0° <u>م</u>			15614 Aug 19 01:12	0° m)	
max. Earth dist.	15613 Sep 16 09:10	ە – 4° - 27'21	1.38934 AU	morning set	15614 Aug 24 04:34	8° Mp 08'44	
max. Dartii dist.	13013 бер 10 03.10	. —2721	1.50751710	max. Earth dist.	15614 Aug 29 10:45	16° Mp 46'59	1.41290 AU
superior conj	15613 Sep 23 23:28	18° ≏ 15'51	-0°27'29	man. Barm digt.	100111148 25 10.10	10 19 1009	12,0110
minimum elong	15613 Sep 24 01:26	18° Ω 25'08	0°26'56	superior conj	15614 Sep 06 06:34	0° £ 17'07	-1°03'57
asc. node	15613 Sep 27 01:45	24° ≏ 09'09		minimum elong	15614 Sep 06 11:40	0° ჲ 39'48	
	15613 Sep 30 02:06	0° M ₊			15614 Sep 06 02:43	0∘ ⊽	
evening rise	15613 Oct 03 00:55	5° ™ 46'18		asc. node	15614 Sep 13 22:23	14° £ 14'47	
	15613 Oct 17 05:40	0° ∡ 7		evening rise	15614 Sep 16 14:48	19° Ω 15'04	
evening max el	15613 Oct 19 06:31	2° х 15'49	18°51'04	5 / 4 · · · · · · · · · · · · · · · · · ·	15614 Sep 22 11:16	0°M	
retrograde	15613 Oct 27 19:53	6° х 34'46		evening max el	15614 Oct 02 12:50	14°M43'24	18°16'32
evening set	15613 Oct 29 17:21	6° ₹ 22'53		retrograde	15614 Oct 09 22:24	18°M29'45	
desc. node	15613 Oct 29 13:50	6° х 24'37		evening set	15614 Oct 12 00:19	18°M12'31	
inferior conj	15613 Nov 06 22:47	2° ∡ ¹02'52	-2°40'04	desc. node	15614 Oct 16 11:10	15°M55'25	
minimum elong	15613 Nov 06 16:12	2°×14'39		inferior conj	15614 Oct 19 12:19	13°M31'05	-0°58'33
	15613 Nov 09 19:38	30°RM		minimum elong	15614 Oct 19 10:09	13°M35'38	0°57'08
min. Earth dist.	15613 Nov 09 22:34	29°M54'57	0.56676 AU	min. Earth dist.	15614 Oct 22 18:36	10°M48'07	0.58726 AU
morning rise	15613 Nov 14 12:05	27°M13'51		morning rise	15614 Oct 26 16:33	8°M05'32	
direct	15613 Nov 20 09:25	25°M50'57		direct	15614 Nov 02 02:12	6°M16'03	
	15613 Nov 30 21:11	0° ∡ 7		morning max el	15614 Nov 16 09:20	13°M55'38	27°28'25
morning max el	15613 Dec 04 13:31	3° х 09′37	26°20'36	<i>5</i>	15614 Nov 29 06:07	0° ∡ 7	- *
<i>5</i>	15613 Dec 23 17:22	8°0		asc. node	15614 Dec 10 23:15	19° ∡ 57'56	
asc. node	15613 Dec 24 02:11	0° る 39'59			15614 Dec 15 23:42	8°0	
morning set	15614 Jan 02 05:43	18° ප් 56'49		morning set	15614 Dec 17 13:35	3° ප 19'28	

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morning max el	15616 Oct 10 21:12	7° ≏ 48'42	27°48'46		15617 Oct 21 02:52	0° M	
	15616 Oct 27 24:00	0° M ₊		morning set	15617 Oct 28 21:54	14° M 20'09	
asc. node	15616 Nov 13 17:07	29°M31'23		asc. node	15617 Oct 31 13:56	19° M 35'17	
	15616 Nov 13 22:51	0° ∡ ″		max. Earth dist.	15617 Nov 02 04:22	22°M49'26	1.33427 AU
morning set	15616 Nov 14 12:10	1° ∡ ¹06'59			15617 Nov 05 15:23	0° ∡ ¹	
max. Earth dist.	15616 Nov 19 11:58	11° ∡ ′30′15	1.32068 AU				
				superior conj	15617 Nov 06 08:30	1° ∡ ³30′28	0°51'15
superior conj	15616 Nov 22 05:43	17° ∡ ¹25'40	1°12'00	minimum elong	15617 Nov 06 06:17	1° ∡ 18'40	0°51'35
minimum elong	15616 Nov 22 03:25	17° ∡ 13′08	1°12'30	evening rise	15617 Nov 13 11:45	16° ∡ ¹46'45	
	15616 Nov 27 23:22	0° ප			15617 Nov 19 23:50	0° ろ	
evening rise	15616 Nov 29 01:19	2° ප 20'31		desc. node	15617 Dec 03 00:43	19° る 44'34	
	15616 Dec 13 20:45	0° ≈		evening max el	15617 Dec 04 08:45	21° る 06'52	21°59'47
desc. node	15616 Dec 16 03:43	3° ≈ 16'41		retrograde	15617 Dec 16 20:48	27° る 17'54	
evening max el	15616 Dec 22 21:24	11° ≈ 08'16	23°42'10	evening set	15617 Dec 20 05:22	26° る 52'50	
retrograde	15617 Jan 05 08:10	17° ≈ 48'12		inferior conj	15617 Dec 28 19:23	23° る 01'27	-5°59'14
evening set	15617 Jan 09 23:57	17° ≈ 01'12		minimum elong	15617 Dec 28 16:39	23° る 05'17	5°58'15
min. Earth dist.	15617 Jan 16 08:37	13° ≈ 57'41	0.55201 AU	min. Earth dist.	15617 Dec 28 14:13	23° ろ 08'39	0.54454 AU
inferior conj	15617 Jan 18 01:36	12° ≈ 57'18		morning rise	15618 Jan 06 04:46	19° る 14'08	
minimum elong	15617 Jan 18 07:41	12° ≈ 48'19	5°43'47	direct	15618 Jan 09 16:59	18° る 46'56	
morning rise	15617 Jan 26 17:00	9° ≈ 02'45	3 13 17	morning max el	15618 Jan 22 00:26	24° る 43'36	21°52'17
direct	15617 Jan 29 06:55	8° ≈ 46'15		morning max or	15618 Jan 26 17:05	0°≈	21 32 17
morning max el	15617 Feb 09 02:31	13°≈59'55	20°19'01	asc. node	15618 Jan 27 12:59	1°≈05'31	
asc. node	15617 Feb 09 15:39	13 ≈ 32'26	20 1701	morning set	15618 Feb 11 21:24	28°≈33'11	
asc. node	15617 Feb 20 09:29	0° \		morning set	15618 Feb 12 13:52	20 ≈ 33 11	
morning set	15617 Feb 27 11:15	13° ¥ 49′23			13010100 12 13.32	0 X	
morning set	13017 100 27 11.13	13 7(4923		superior conj	15618 Feb 19 00:40	13°) 41′24	101654
aumorior aoni	15617 Mar 07 02:26	29°) 28'44	0°57'20			13° X 4124	1°16'56
superior conj	15617 Mar 07 02:26			minimum elong	15618 Feb 19 03:03	13 ★33 34 22°¥22'06	
minimum elong	15617 Mar 07 04:59	29°) (41'37 0° °	0°57'02	max. Earth dist.	15618 Feb 23 05:42	0°Υ42'06	1.34491 AU
E 41 E 4	15617 Mar 07 08:38		1 26402 ATT	evening rise	15618 Feb 27 11:26	0° γ 42'06 0° γ	
max. Earth dist.	15617 Mar 12 17:18	10° Υ 30'23	1.36483 AU		15618 Feb 27 02:39		
desc. node	15617 Mar 14 04:51	13° ℃ 18'01		desc. node	15618 Mar 01 01:26	3° Υ 41'51	
evening rise	15617 Mar 16 12:16	17° Ƴ 33'33			15618 Mar 16 17:22	0°8	26040121
	15617 Mar 23 15:48	0° 8		evening max el	15618 Apr 03 13:27	22° 8 31'28	26°49'21
	15617 Apr 13 04:00	0°Щ		retrograde	15618 Apr 16 19:18	29° 8 58'48	
evening max el	15617 Apr 20 23:34	8° Ⅱ 46'48	25°50'20	evening set	15618 Apr 23 06:29	27° 8 26'33	
retrograde	15617 May 03 13:02	16° Ⅱ 00'24		asc. node	15618 Apr 25 09:52	25° 8 29'26	
asc. node	15617 May 08 12:37	14° Ⅱ 20'15		min. Earth dist.	15618 Apr 27 06:01	23° 8 29'15	0.66139 AU
evening set	15617 May 09 14:47	13° Ⅲ 30′20		inferior conj	15618 Apr 29 08:20	21° 8 01'51	1°11'17
min. Earth dist.	15617 May 13 19:50		0.67547 AU	minimum elong	15618 Apr 29 06:38	21° 8 06'50	1°10'04
inferior conj	15617 May 15 09:19	7° Ⅱ 00'00		morning rise	15618 May 05 08:04	15° 8 25'25	
minimum elong	15617 May 15 07:09	7° Ⅱ 06'52	1°55'48	direct	15618 May 08 06:57	14° 8 37'24	
morning rise	15617 May 21 00:08	1° Ⅱ 11'30		morning max el	15618 May 14 15:22		18°11'23
direct	15617 May 24 09:02	0° Ⅱ 06'32			15618 May 23 19:24	Π $^{\circ}0$	
morning max el	15617 May 31 01:58	3° Ⅱ 43'03	18°49'28	desc. node	15618 May 28 02:48	6° Ⅱ 44'10	
desc. node	15617 Jun 10 05:51	16° Ⅱ 50'55		morning set	15618 Jun 02 21:35	15° Ⅱ 59'44	
greatest brilliancy	15617 Jun 13 19:24	22° Ⅱ 12'19	-0.8m		15618 Jun 11 16:21	0	
	15617 Jun 18 21:02	0					
morning set	15617 Jun 22 11:40	5° © 35'58		superior conj	15618 Jun 18 01:45	10° © 03'04	-2°03'59
max. Earth dist.	15617 Jul 07 01:45	28° © 17'58	1.45806 AU	minimum elong	15618 Jun 17 18:46	9° © 35'45	2°04'28
	15617 Jul 08 03:52	0 $^{\circ}\Omega$		max. Earth dist.	15618 Jun 19 22:21	12° © 57'18	1.45948 AU
					15618 Jun 30 21:30	$0 {\circ} \Omega$	
superior conj	15617 Jul 08 16:45	0° Ω 50′21	-2°14'09	evening rise	15618 Jul 04 04:11	5° Ω 05'07	
minimum elong	15617 Jul 08 16:51	0° Ω 50'45	2°14'56	greatest brilliancy	15618 Jul 15 11:21	22° Ω 27′36	-0.7m
evening rise	15617 Jul 23 23:51	25° Ω 05′17			15618 Jul 20 15:06	O° m y	
	15617 Jul 27 01:11	0° m)		asc. node	15618 Jul 22 09:00	2° Mp 23'46	
asc. node	15617 Aug 04 12:18	13° m 22'25		evening max el	15618 Jul 27 15:56	8° m 40'51	19°08'09
evening max el	15617 Aug 13 05:53	24° m 51'18	18°28'54	retrograde	15618 Aug 03 13:13	12° m 28'42	
retrograde	15617 Aug 19 16:40	28° Mp 18'50		evening set	15618 Aug 07 01:38	11°Mp 16'59	
evening set	15617 Aug 22 19:33	27° m 24'08		inferior conj	15618 Aug 12 12:36	5° ™ 28'32	2°48'36
inferior conj	15617 Aug 28 13:44	21° m 49'38	2°18'32	minimum elong	15618 Aug 12 14:21	5° m/22'52	2°47'52
minimum elong	15617 Aug 28 16:03	21° m/42'42	2°17'45	min. Earth dist.	15618 Aug 14 00:56	3° m 31'16	0.66913 AU
min. Earth dist.	15617 Aug 30 16:16	19° m)18'18	0.65266 AU		15618 Aug 17 01:46	30°R Ω	
morning rise	15617 Sep 03 11:17	15° m/26'22		morning rise	15618 Aug 18 02:23	29° Ω 02'14	
desc. node	15617 Sep 06 03:24	13° m 41'49		direct	15618 Aug 24 04:17	26° Ω 26′09	
direct	15617 Sep 09 21:56	12° m 49'02		desc. node	15618 Aug 24 00:49	26° Ω 26'14	
morning max el	15617 Sep 23 08:07	20° m 41'34	27°06'22		15618 Sep 01 09:58	0° ™	
- C	15617 Oct 01 09:19	0∘ <u>v</u>		morning max el	15618 Sep 05 19:29	3° m 57'36	25°58'51
				S			

	15618 Sep 25 17:25	0∘ ⊽		min. Earth dist.	15619 Jul 28 15:50	18°Ω07'50	0.68119 AU
morning set	15618 Oct 11 18:16	26° £ 56'08		morning rise	15619 Aug 02 01:41	12° Ω 59'11	
C	15618 Oct 13 09:47	0° M .		direct	15619 Aug 07 16:39	10° Ω 31'43	
max. Earth dist.	15618 Oct 15 11:14	3°M55'03	1.35301 AU	desc. node	15619 Aug 10 22:13	11° Ω 12'31	
asc. node	15618 Oct 18 10:39	9° M 44'06		morning max el	15619 Aug 19 06:29	17° Ω 27'38	24°35'44
				-	15619 Aug 29 18:19	0° m)	
superior conj	15618 Oct 21 03:38	15°ML11'00	0°24'37		15619 Sep 18 17:32	0∘ ⊽	
minimum elong	15618 Oct 21 02:16	15°ML04'00	0°24'54	morning set	15619 Sep 23 21:20	8° ≏ 46'46	
	15618 Oct 28 07:17	0° ∡ ¹		max. Earth dist.	15619 Sep 27 11:09	15° ≙ 08'27	1.37553 AU
evening rise	15618 Oct 28 19:50	1° ∡ 05′08					
	15618 Nov 14 19:21	0°ಕ		superior conj	15619 Oct 04 11:58	28° ഫ 20'30	-0°07'18
evening max el	15618 Nov 16 06:11	1°る32'08	20°29'49	minimum elong	15619 Oct 04 12:26	28° £ 22'43	0°06'52
desc. node	15618 Nov 19 21:49	4° る 34'42		behind sun begin	15619 Oct 04 06:19	27° ≙ 53'04	
retrograde	15618 Nov 27 07:19	7° る 01'54		behind sun end	15619 Oct 04 18:33	28° ≏ 52'26	
evening set	15618 Nov 29 15:01	6° る 48'27		asc. node	15619 Oct 05 07:19	29° ≙ 54'37	
inferior conj	15618 Dec 08 11:12	2°る54'02			15619 Oct 05 08:26	0°M	
minimum elong	15618 Dec 08 01:43	3°る07'51	5°09'12	evening rise	15619 Oct 12 23:19	15°M10'30	
min. Earth dist.	15618 Dec 09 19:49	2° る 06'30	0.54631 AU		15619 Oct 20 17:20	0° 🗷	10020120
	15618 Dec 13 18:40	30°R.✓		evening max el	15619 Oct 29 18:11	12° х 46'09	19°20'38
morning rise	15618 Dec 16 12:06	28° 🖈 55'28		desc. node	15619 Nov 06 19:00	17° х 23'37 17° х 29'33	
direct	15618 Dec 21 01:23 15618 Dec 28 00:43	28°ズ10'55 0°る		retrograde	15619 Nov 08 04:17	17° x ' 29'33	
morning max el	15619 Jan 03 11:23	0 3 4° 3 45'18	22940121	evening set inferior conj	15619 Nov 10 01:47 15619 Nov 18 15:29	17 x ·18 34 13° x ¹ 10'22	2940!41
asc. node	15619 Jan 14 10:16	4 343 18 18° 3 42'27	23 40 31	minimum elong	15619 Nov 18 06:33		3°36'47
asc. node	15619 Jan 20 20:54	18 0 4227		min. Earth dist.	15619 Nov 21 05:08	11° x 23'03	0.55715 AU
morning set	15619 Jan 27 09:15	0 ~ 13° ≈ 17'15		morning rise	15619 Nov 26 09:04	8° × ⁷ 42'00	0.55715 AC
morning set	1301) 3411 27 07.13	13 7017 13		direct	15619 Dec 01 20:08	7° х ³34′09	
superior conj	15619 Feb 03 05:32	28° ≈ 09'43	1°30'00	morning max el	15619 Dec 15 20:37	14°×739'22	25°27'24
minimum elong	15619 Feb 03 07:12	28°≈18'42		morning man vi	15619 Dec 28 00:01	0°ಕ	20 27 2 .
	15619 Feb 04 01:56	0°) €		asc. node	15620 Jan 01 07:29	7° る 07'50	
max. Earth dist.	15619 Feb 06 01:30	4°) 14′21	1.32882 AU	morning set	15620 Jan 11 20:55	27° පි 56'25	
evening rise	15619 Feb 10 22:44	14°) 19′00		<i>8 3 3 3 3 3 3 3 3 3 3</i>	15620 Jan 12 19:45	0° ≈	
desc. node	15619 Feb 15 22:03	23°) 54′07					
	15619 Feb 19 07:00	$0^{\circ}\mathbf{\Upsilon}$		superior conj	15620 Jan 18 14:36	12° ≈ 46'45	1°36'51
	15619 Mar 11 14:09	9° 8		minimum elong	15620 Jan 18 15:16	12° ≈ 50′26	1°37'32
evening max el	15619 Mar 17 02:32	5° 8 56'18	27°26'28	max. Earth dist.	15620 Jan 20 04:02	16° ≈ 13′18	1.31748 AU
retrograde	15619 Mar 30 19:10	13° 8 27'35		evening rise	15620 Jan 25 19:13	28° ≈ 17′09	
evening set	15619 Apr 06 12:58	10° 8 59'35			15620 Jan 26 15:12	0°) €	
min. Earth dist.	15619 Apr 10 08:31	7° 8 33'36	0.64344 AU	desc. node	15620 Feb 02 18:42	13°) 49′29	
asc. node	15619 Apr 12 07:12	5° 8 29'50			15620 Feb 12 12:02	0° Y	
inferior conj	15619 Apr 12 22:58	4° 8 47'32		evening max el	15620 Feb 27 13:01	18° Ƴ 49'15	27°34'56
minimum elong	15619 Apr 12 22:37	4° 8 48'28	0°11'50	retrograde	15620 Mar 12 11:41	26° Y 16'42	
transit middle	15619 Apr 12 22:37	4° 8 48'28	0°11'50	evening set	15620 Mar 19 07:41	24° Y 00'34	
transit begin	15619 Apr 12 20:32	4° 8 54'02		min. Earth dist.	15620 Mar 23 01:50	21° Υ 00'18	0.62251 AU
transit end	15619 Apr 13 00:41	4° 8 42'55		inferior conj	15620 Mar 26 02:05	18° Y ′09'07	
	15619 Apr 18 07:44	30° ₹ Υ 29° Υ 25'25		minimum elong	15620 Mar 26 04:08	18° ℃ 04'14	0°59'17
morning rise	15619 Apr 19 10:24	29° Y 25 25 28° Y 51′29		asc. node	15620 Mar 29 04:35 15620 Apr 02 03:37	15° Y 23'03 13° Y 03'47	
direct	15619 Apr 22 00:16 15619 Apr 25 16:39	0° 8		morning rise direct	15620 Apr 02 03.37 15620 Apr 04 09:48	13 1 03 47 12° Υ 40'36	
morning max el	15619 Apr 28 08:23	2° 8 06'40	17°50'26	morning max el	15620 Apr 11 01:59	16° Υ 03'02	17°47'05
desc. node	15619 May 14 23:40	26° 8 54'38	17 30 20	morning max cr	15620 Apr 20 22:55	0°8	17 47 03
morning set	15619 May 15 11:00	20 8 3438		morning set	15620 Apr 26 23:56	10° 8 30'31	
morning sec	15619 May 16 19:53	0°II		desc. node	15620 Apr 30 20:27	17° 8 16'48	
	10019 11149 10 19.00	~ _		dese. Hode	15620 May 08 06:28	0°II	
superior conj	15619 May 28 22:03	19° Ⅱ 51'15	-1°36'43		,		
minimum elong	15619 May 28 13:29	19° Ⅱ 16'53		superior conj	15620 May 08 16:05	0° Ⅱ 40'22	-1°00'10
max. Earth dist.	15619 Jun 02 18:17		1.45335 AU	minimum elong	15620 May 08 10:27	0° Ⅱ 16'44	1°00'04
	15619 Jun 04 07:41	0ංම		max. Earth dist.	15620 May 15 10:55	11° Ⅱ 48′27	1.44049 AU
evening rise	15619 Jun 13 16:46	14°530'48		evening rise	15620 May 23 05:37	24° Ⅲ 04′20	
	15619 Jun 23 22:55	$0^{\circ}\Omega$			15620 May 27 02:26	0ංම	
greatest brilliancy	15619 Jun 28 12:36	6° Ω 42'15	-0.6m		15620 Jun 17 03:48	$0^{\circ}\Omega$	
asc. node	15619 Jul 09 05:48	20° Ω 51'40		evening max el	15620 Jun 22 18:59	6° Ω 26'38	21°11'34
evening max el	15619 Jul 10 20:29	22° Ω 33'45	20°03'10	asc. node	15620 Jun 25 02:40	8° Ω 34'00	
retrograde	15619 Jul 18 12:03	26° Ω 53'56		retrograde	15620 Jul 01 11:01	11° Ω 27'57	
evening set	15619 Jul 22 10:35	25° Ω 24'39		evening set	15620 Jul 05 20:19	9° Ω 41'24	
inferior conj	15619 Jul 27 17:27	19° Ω 23'46	3°04'51	inferior conj	15620 Jul 11 01:52	3° Ω 29'36	3°09'10
minimum elong	15619 Jul 27 18:20	19° Ω 20'47	3°04'08	minimum elong	15620 Jul 11 01:46	3° Ω 29'56	3°08'23

min Earth dist	15620 Iul 11 10:47	20 0 5012 4	0 60050 ATT	minimum alana	15621 Jun 25 10:45	1796345150	3°01'41
min. Earth dist.	15620 Jul 11 10:47	2° £ 58′34 30° ₹ ©	0.68858 AU	minimum elong min. Earth dist.	15621 Jun 25 10:45 15621 Jun 25 07:34	17° © 45'50 17° © 56'56	0.69116 AU
marning rise	15620 Jul 13 16:05	•				1/°93636	0.09110 AU
morning rise	15620 Jul 16 06:58	27°510'00		morning rise	15621 Jun 30 16:14		
direct	15620 Jul 21 09:57	24°956'42		direct	15621 Jul 05 06:57	9° © 34'30	21020150
desc. node	15620 Jul 27 19:35	27° © 35'50		morning max el	15621 Jul 14 08:02	14°950'27	21°39'50
	15620 Jul 30 15:12	0°N	2200 (120	desc. node	15621 Jul 14 16:53	15° © 12'49	
morning max el	15620 Jul 31 17:47	1° Ω 04'59	23°06'30		15621 Jul 26 13:23	0°N	
	15620 Aug 22 15:26	0° Mp		morning set	15621 Aug 15 08:07	29° Ω 33'36	
morning set	15620 Sep 04 02:47	19° m 41'08			15621 Aug 15 14:46	0° m	
max. Earth dist.	15620 Sep 08 09:46	26° m 55'25	1.39953 AU	max. Earth dist.	15621 Aug 21 13:14	9° m)35'41	1.42226 AU
	15620 Sep 10 04:26	0∘ ⊽					
	156000 16 05 00	100 0 10100	00.4015.4	superior conj	15621 Aug 29 03:51	22° m) 27'15	
superior conj	15620 Sep 16 05:30	10° Ω 49'09		minimum elong	15621 Aug 29 10:13	22° m 54'51	1°18′29
minimum elong	15620 Sep 16 08:46	11° Ω 04'07	0°42'15		15621 Sep 02 10:47	0∘ ⊽	
asc. node	15620 Sep 21 03:58	20° Ω 02'44		asc. node	15621 Sep 08 00:34	10° Ω 04'48	
evening rise	15620 Sep 25 19:09	28° £ 54'40		evening rise	15621 Sep 09 03:35	12° ₾ 08'09	
	15620 Sep 26 08:47	0°M			15621 Sep 19 09:18	0°M	
evening max el	15620 Oct 11 19:02	24°M49'16	18°33'50	evening max el	15621 Sep 25 04:32	7°M32'25	18°08'05
retrograde	15620 Oct 19 19:22	28°M52'37		retrograde	15621 Oct 02 05:15	11°M.08'19	
evening set	15620 Oct 21 18:05	28° ™ 39'02		evening set	15621 Oct 04 10:14	10°M47'28	
desc. node	15620 Oct 23 16:17	28°M00'43		desc. node	15621 Oct 10 13:39	6°M52'43	
inferior conj	15620 Oct 29 16:22	24°M10'19		inferior conj	15621 Oct 11 14:46	5°M57'23	
minimum elong	15620 Oct 29 11:44	24°M19'10		minimum elong	15621 Oct 11 14:06	5°M58'54	0°19'12
min. Earth dist.	15620 Nov 01 20:41	21°M44'59	0.57503 AU	min. Earth dist.	15621 Oct 14 20:27	3°M05'20	0.59692 AU
morning rise	15620 Nov 06 02:00	19°M05'05		morning rise	15621 Oct 18 14:40	0° M .18′38	
direct	15620 Nov 12 05:30	17°M30'24			15621 Oct 19 03:28	30°Ŗ Ω	
morning max el	15620 Nov 26 11:29	24°M59'22	26°53'44	direct	15621 Oct 25 03:56	28° ≙ 18'16	
	15620 Dec 01 02:59	0° ⊼			15621 Oct 31 11:20	0° M	
asc. node	15620 Dec 18 04:37	26° ₹ 09'19		morning max el	15621 Nov 08 10:26		27°45'48
	15620 Dec 20 05:03	0°る			15621 Nov 26 08:38	0° ∡ ¹	
morning set	15620 Dec 26 06:41	12° る 26'09		asc. node	15621 Dec 05 01:38	15° ∡ ³36'58	
		_		morning set	15621 Dec 10 12:37	26° ∡ ′41′21	
superior conj	15621 Jan 02 01:47	27° る 26'42			15621 Dec 12 01:51	0° ろ	
minimum elong	15621 Jan 02 01:23			max. Earth dist.	15621 Dec 16 18:34	10° る 19'50	1.31064 AU
max. Earth dist.	15621 Jan 02 10:52	28° る 17'32	1.31134 AU			_	
	15621 Jan 03 05:12	0° ≈		superior conj	15621 Dec 17 13:07	12° る 03'32	
evening rise	15621 Jan 08 22:23	12° ≈ 30'45		minimum elong	15621 Dec 17 11:45	11° る 55'54	1°33'11
	15621 Jan 17 18:23	0° ∀		evening rise	15621 Dec 24 06:00	26° る 53'50	
desc. node	15621 Jan 19 15:25	3° ¥ 21′21			15621 Dec 25 16:51	0° ≈	
	15621 Feb 07 18:24	0° Υ		desc. node	15622 Jan 06 12:12	22° ≈ 20'13	
evening max el	15621 Feb 08 18:40	0° Y 59'09	27°09'37		15622 Jan 11 11:25	0° ∀	
retrograde	15621 Feb 22 19:21	8° Y 16′52		evening max el	15622 Jan 21 16:48	12° 光 16′33	26°09'25
evening set	15621 Mar 01 11:32	6° Y 20′21		retrograde	15622 Feb 04 15:54	19°) €21'34	
min. Earth dist.	15621 Mar 05 09:04	3° Y 37′20	0.60013 AU	evening set	15622 Feb 10 20:47	17°) € 50′24	
inferior conj	15621 Mar 08 14:07	0° Y 57′28		min. Earth dist.	15622 Feb 15 06:02	15°) 12'49	0.57843 AU
minimum elong	15621 Mar 08 19:31	0° Y 46'14	2°21'53	inferior conj	15622 Feb 18 07:17	13° 米 01′21	
	15621 Mar 09 18:03	30° ₹		minimum elong	15622 Feb 18 15:53	12°) 45′53	3°50'25
morning rise	15621 Mar 16 06:58	26° ∺ 11'30		morning rise	15622 Feb 26 14:06	8°) (36′47	
asc. node	15621 Mar 16 02:00	26°) 14′53		direct	15622 Feb 28 13:41	8° ¥ 23'55	
direct	15621 Mar 18 07:44	25° ¥ 55′20		asc. node	15622 Mar 02 23:25	8°) 43′49	
morning max el	15621 Mar 25 16:43	29°) ₹36′08	18°02'16	morning max el	15622 Mar 09 00:35	12°) 33'37	18°37'41
	15621 Mar 26 02:14	0° Υ			15622 Mar 20 16:51	0° Υ	
morning set	15621 Apr 10 06:27	24° Y 07′25		morning set	15622 Mar 25 01:10	8° Ƴ 16'04	
	15621 Apr 13 10:48	0°8				•	
desc. node	15621 Apr 17 17:11	7° 8 46'28		superior conj	15622 Apr 02 23:14	25° Y 20′27	
	15(21 4 20 00 25	120 🗸 22120	0021152	minimum elong	15622 Apr 03 00:08	25° Y 24'37	0°12'55
superior conj	15621 Apr 20 09:35	12° 8 33'30		behind sun begin	15622 Apr 02 20:00	25° Y 05'22	
minimum elong	15621 Apr 20 07:43	12° 8 25'18		behind sun end	15622 Apr 03 04:15	25° Y 43'49	
max. Earth dist.	15621 Apr 27 23:18	25° 8 32'12	1.42224 AU	desc. node	15622 Apr 04 13:49	28° Y 19'00	
-	15621 Apr 30 16:22	0° П		man P d P d	15622 Apr 05 11:54	0°8	1 40046 433
evening rise	15621 May 03 09:14	4° Ⅱ 21'37		max. Earth dist.	15622 Apr 10 07:39	8° 8 35'30	1.40046 AU
	15621 May 20 09:25	0.02 0.02	22020112	evening rise	15622 Apr 14 09:34	15° 8 33'23	
evening max el	15621 Jun 05 12:34	20°520'20	22°29'13		15622 Apr 23 09:22	0° Ⅱ	
asc. node	15621 Jun 11 23:38	25°5016'32			15622 May 15 04:26	0°95	22050141
retrograde	15621 Jun 15 08:24	26°505'50		evening max el	15622 May 19 03:05	4°5014'46	23°50'41
evening set	15621 Jun 20 05:06	24°503'16	2002/20	asc. node	15622 May 29 20:42	10°541'19	
inferior conj	15621 Jun 25 11:45	17° © 42'21	3°02'38	retrograde	15622 May 30 02:55	10° © 41'36	

evening set	15622 Jun 04 11:19	8° © 25'13		min. Earth dist.	15623 May 23 22:04	17° Ⅱ 50'00	0.68165 AU
min. Earth dist.	15622 Jun 09 04:01	2°956'14	0.68882 AU	inferior conj	15623 May 25 04:12	16° Ⅱ 11'23	2°18'09
inferior conj	15622 Jun 09 04:01	1°957'39	2°45'42	minimum elong	15623 May 25 02:04	16° Ⅱ 1123	2°16'47
,				Č	•		2-104/
minimum elong	15622 Jun 09 19:27	2°503'34	2°44′31	morning rise	15623 May 30 15:11	10° Ⅱ 17'05	
	15622 Jun 11 08:12	30°RⅡ 250₩52140		direct	15623 Jun 03 06:17	9° Ⅱ 01'29	10010150
morning rise	15622 Jun 15 03:35	25° Ⅱ 53'40		morning max el	15623 Jun 10 07:41	12° Ⅱ 53'15	19°18'59
direct	15622 Jun 19 06:12	24° Ⅱ 18'12		desc. node	15623 Jun 18 11:12	22° I 55'09	
morning max el	15622 Jun 27 04:12	28° ∏ 46′38	20°22'36	greatest brilliancy	15623 Jun 23 00:15	29° Ⅱ 28'52	-0.7m
	15622 Jun 28 08:41	0			15623 Jun 23 08:39	0 \circ	
desc. node	15622 Jul 01 14:05	3°5544'06		morning set	15623 Jul 04 21:37	17° © 31'09	
	15622 Jul 20 02:01	0 ° Ω			15623 Jul 12 23:22	0 $^{\circ}$ Ω	
morning set	15622 Jul 25 17:27	8° Ω 36'46		max. Earth dist.	15623 Jul 17 15:57	7° Ω 19'47	1.45379 AU
max. Earth dist.	15622 Aug 03 23:51	23° Ω 09'01	1.44100 AU				
	15622 Aug 08 05:38	0° m y		superior conj	15623 Jul 21 04:00	12° Ω 51'12	-2°10'46
				minimum elong	15623 Jul 21 08:21	13° Ω 08′25	2°11'19
superior conj	15622 Aug 10 03:20	3° ™ 07'14	-1°50'50		15623 Jul 31 19:34	0° m)	
minimum elong	15622 Aug 10 11:03	3° m 39'04	1°50'37	evening rise	15623 Aug 04 14:47	6° Mp 14′46	
evening rise	15622 Aug 22 19:53	24° m 39'21		asc. node	15623 Aug 12 17:48	19° m 34'22	
asc. node	15622 Aug 25 21:11	29° m 57'04			15623 Aug 19 17:01	0∘ ⊽	
	15622 Aug 25 21:51	0∘ ⊽		evening max el	15623 Aug 23 09:07	4° £ 17'54	18°13'54
evening max el	15622 Sep 08 18:28	20° ≏ 45'14	18°01'48	retrograde	15623 Aug 29 17:51	7° ♀ 40'06	
retrograde	15622 Sep 15 06:19	24° ₽ 07'35		evening set	15623 Sep 01 15:23	6° ₽ 54'34	
evening set	15622 Sep 17 19:13	23° ♀ 35'52		inferior conj	15623 Sep 07 15:15	1° ≏ 28'32	1°54'01
inferior conj	15622 Sep 24 07:46	18° ≏ 26′28	0°57'01	minimum elong	15623 Sep 07 17:35	1° Ω 21'51	
minimum elong	15622 Sep 24 09:21	18° ≏ 22'26	0°56'38		15623 Sep 08 22:08	30°R. M)	
desc. node	15622 Sep 27 11:02	15° Ω 15'59		min. Earth dist.	15623 Sep 10 01:35	28° m 42'46	0.64144 AU
min. Earth dist.	15622 Sep 27 06:01	15° ≏ 28'10	0.61982 AU	morning rise	15623 Sep 13 18:04	25° mg 09'39	0.01111110
morning rise	15622 Sep 30 20:55	13° 2 20'10	0.01702710	desc. node	15623 Sep 14 08:28	24° m) 42'37	
direct	15622 Oct 07 13:16	12 — 22 43 10° Ω 01'47		direct	15623 Sep 20 07:59	22° m/35'42	
morning max el	15622 Oct 07 15:10 15622 Oct 21 16:21	10 ⊆ 01 47	27°58'37	direct	15623 Oct 03 12:35	0° <u>م</u>	
morning max er	15622 Oct 31 18:39	0°M	21 3631	morning max el	15623 Oct 04 02:26	0° 0° 34'15	27024126
		0° √ 1		morning max er	15623 Oct 04 02.20 15623 Oct 25 20:21	0 = 34 13 0° M	27 34 20
	15622 Nov 19 03:56						
asc. node	15622 Nov 21 22:33	5° ₹ 23'20		morning set	15623 Nov 08 04:34	24°M08'12	
morning set	15622 Nov 24 12:45	10° ₹ 37'30	1 21544 477	asc. node	15623 Nov 08 19:23	25°M21'58	
max. Earth dist.	15622 Nov 29 23:15	22° ∡ 11'10	1.31544 AU	n d r	15623 Nov 11 02:11	0° ⊼ ¹	1 22501 444
	15(22 D 01 22 15	260 32002	1001110	max. Earth dist.	15623 Nov 12 21:01	3° ⊀ '42'39	1.32581 AU
superior conj	15622 Dec 01 22:47	26° ₹ 32'23	1°21'12				
minimum elong	15622 Dec 01 20:42	26° ∡ ¹20'56	1°21'48	superior conj	15623 Nov 16 04:43	10° ∡ ¹47'11	1°03'56
	15622 Dec 03 12:17	0° ろ		minimum elong	15623 Nov 16 02:22		1°04'21
evening rise	15622 Dec 08 16:09	11° る 21'54		evening rise	15623 Nov 23 03:00	25° ∡ ¹49'37	
	15622 Dec 17 23:21	0° ≈			15623 Nov 25 02:10	0°る	
desc. node	15622 Dec 24 09:03	10° ≈ 34′08		desc. node	15623 Dec 11 06:00	27° る 46'22	
evening max el	15623 Jan 03 06:27	22° ≈ 43'25	24°40'33		15623 Dec 13 02:42	0° ≈	
retrograde	15623 Jan 16 23:39	29° ≈ 34'19		evening max el	15623 Dec 15 15:50	2° ≈ 40'51	22°57'50
evening set	15623 Jan 22 08:00	28° ≈ 31'10		retrograde	15623 Dec 28 18:49	9° ≈ 10'54	
min. Earth dist.	15623 Jan 27 18:20	25° ≈ 42'48	0.56002 AU	evening set	15624 Jan 01 21:23	8° ≈ 34'13	
inferior conj	15623 Jan 30 03:19	24° ≈ 13'38	-5°13'14	min. Earth dist.	15624 Jan 09 01:24	5° ≈ 15'32	0.54775 AU
minimum elong	15623 Jan 30 12:06	23° ≈ 59'53	5°10'47	inferior conj	15624 Jan 10 04:17	4° ≈ 37'10	-5°58'29
morning rise	15623 Feb 07 18:23	20° ≈ 10′05		minimum elong	15624 Jan 10 07:01	4° ≈ 33'16	5°57'35
direct	15623 Feb 10 00:10	19° ≈ 56′26		morning rise	15624 Jan 18 18:00	0° ≈ 47'47	
asc. node	15623 Feb 17 20:48	22° ≈ 57'54		direct	15624 Jan 21 16:16	0° ≈ 27'48	
morning max el	15623 Feb 19 21:29	24° ≈ 44′21	19°35'22	morning max el	15624 Feb 02 04:04	5° ≈ 59'56	20°56'19
	15623 Feb 24 08:36	0°) €		asc. node	15624 Feb 04 18:09	8° ≈ 45'11	
morning set	15623 Mar 09 04:07	22°){ 44'46			15624 Feb 17 20:55	0° ∀	
	15623 Mar 12 18:24	$0^{\circ}\mathbf{\Upsilon}$		morning set	15624 Feb 21 12:19	7°) €24'47	
superior conj	15623 Mar 17 04:40	8° Ƴ 49'19	0°43'06	superior conj	15624 Feb 28 21:47	22°) 48'54	1°06'26
minimum elong	15623 Mar 17 06:57	9° Y '00'30	0°42'40	minimum elong	15624 Feb 29 00:21	23°) €02'04	1°06'16
desc. node	15623 Mar 22 10:25	18° Y ′50′59		- <i>U</i>	15624 Mar 03 11:08	0° Υ	
max. Earth dist.	15623 Mar 23 13:54	20° Y ′58′05	1.37754 AU	max. Earth dist.	15624 Mar 04 22:27	2° Y 53'48	1.35588 AU
evening rise	15623 Mar 27 06:28	27° Υ 36'56		desc. node	15624 Mar 08 07:01	9° Υ 18'53	
	15623 Mar 28 15:10	0°8		evening rise	15624 Mar 08 21:03	10° Υ 24'24	
	15623 Apr 16 19:51	0°II			15624 Mar 20 05:06	0°8	
evening max el	15623 May 01 16:28	18° Ⅱ 08'42	25°09'15		15624 Apr 11 07:22	0°II	
retrograde	15623 May 13 17:31	25° Ⅱ 08'46	20 07 10	evening max el	15624 Apr 13 06:01	1° ∏ 58'42	26°17'40
asc. node	15623 May 16 17:50	23 H0840 24°H30'48		retrograde	15624 Apr 26 03:20	9° П 20'22	20 1/70
evening set	15623 May 19 13:18	24 H3048 22°H42'06		evening set	15624 Apr 26 05:20 15624 May 02 09:22	9 II 2022 6° II 48'21	

1-	15(24 M 02 15:02	€0 T 2€125		4.	15/25 Apr. 10 12:22	170 4 10107	
asc. node	15624 May 02 15:03	6° Ⅱ 36'25	0.66001 ATT	asc. node	15625 Apr 19 12:22	17° 8 10'27	0.65400 444
min. Earth dist.	15624 May 06 11:46	2° I 31'41	0.66991 AU	min. Earth dist.	15625 Apr 19 19:04	16° 8 52'10	0.65408 AU
inferior conj	15624 May 08 06:50	0° Ⅱ 19'26	1°39'16	inferior conj	15625 Apr 22 02:39	14° 8 15'19	0°47'58
minimum elong	15624 May 08 04:47	0° I I25'45	1°37'53	minimum elong	15625 Apr 22 01:25	14° 8 18'50	0°46'57
	15624 May 08 13:10	30°R 8		morning rise	15625 Apr 28 07:02	8° 8 44'33	
morning rise	15624 May 14 01:07	24° 8 36'02		direct	15625 May 01 01:50	8° 8 03'01	
direct	15624 May 17 05:32	23° 8 38'45		morning max el	15625 May 07 09:18	11° 8 19'40	18°00'20
morning max el	15624 May 23 18:02	27° 8 06'46	18°31'16		15625 May 20 14:32	0°II	
	15624 May 26 09:26	$0^{\circ}\Pi$		desc. node	15625 May 22 05:06	2° Ⅲ 36'40	
desc. node	15624 Jun 04 08:12	12° Ⅱ 35'34		morning set	15625 May 25 14:33	8° Ⅱ 09'15	
morning set	15624 Jun 13 16:49	27° Ⅱ 11'50			15625 Jun 08 04:12	0ಂತಾ	
	15624 Jun 15 11:36	0_{\circ} වෙ					
				superior conj	15625 Jun 09 02:19	1° 9 27'14	
superior conj	15624 Jun 29 14:22	22° © 04'16		minimum elong	15625 Jun 08 17:53		1°54'19
minimum elong	15624 Jun 29 11:04	21° © 51'26		max. Earth dist.	15625 Jun 12 07:21	6° © 29'47	1.45773 AU
max. Earth dist.	15624 Jun 29 11:13	21° © 52'01	1.45950 AU	evening rise	15625 Jun 25 04:40	26°9527'30	
	15624 Jul 04 16:18	0 $^{\circ}\Omega$			15625 Jun 27 12:03	$0 ^{\circ} \Omega$	
evening rise	15624 Jul 15 08:46	16° Ω 47'30		greatest brilliancy	15625 Jul 08 11:05	16° Ω 34'23	-0.7m
greatest brilliancy	15624 Jul 23 15:18	29° Ω 49'12	-0.8m	asc. node	15625 Jul 16 11:16	27° Ω 39'36	
	15624 Jul 23 18:05	0° m ∕			15625 Jul 18 10:19	0° m/	
asc. node	15624 Jul 29 14:30	8° m 51'17		evening max el	15625 Jul 20 05:31	1° ™ 55'06	19°29'48
evening max el	15624 Aug 05 21:36	18° ™ 03'33	18°43'32	retrograde	15625 Jul 27 09:44	5° My 55'12	
retrograde	15624 Aug 12 12:01	21° m 38'27		evening set	15625 Jul 31 02:21	4° ™ 36′10	
evening set	15624 Aug 15 18:46	20°M/36'51			15625 Aug 04 11:36	30°R $Ω$	
inferior conj	15624 Aug 21 09:30	14° m 56'19	2°33'06	inferior conj	15625 Aug 05 11:14	28° Ω 42'33	2°57'00
minimum elong	15624 Aug 21 11:38	14° m 49'42	2°32'19	minimum elong	15625 Aug 05 12:39	28° Ω 37'53	2°56'18
min. Earth dist.	15624 Aug 23 06:05	12° m 38'00	0.66014 AU	min. Earth dist.	15625 Aug 06 17:41	27° Ω 01'56	0.67485 AU
morning rise	15624 Aug 27 03:28	8° m 30'46		morning rise	15625 Aug 10 22:23	22° Ω 16′32	
desc. node	15624 Aug 31 05:54	6° ™ 11'09		direct	15625 Aug 16 19:58	19° Ω 43′00	
direct	15624 Sep 02 10:43	5° m 52'44		desc. node	15625 Aug 18 03:20	19° Ω 49'39	
morning max el	15624 Sep 15 13:53	13° m 39'00	26°40'06	morning max el	15625 Aug 29 00:54	27° Ω 01′03	25°24'45
	15624 Sep 28 20:35	0∘ ⊽			15625 Aug 31 19:48	0° m	
	15624 Oct 17 12:54	0° M.			15625 Sep 22 11:27	0 ்⊽	
morning set	15624 Oct 21 09:06	7°ML06'51		morning set	15625 Oct 03 22:41	19° ≙ 24'56	
max. Earth dist.	15624 Oct 25 09:07	14°M53'21	1.34167 AU	max. Earth dist.	15625 Oct 07 12:06	25° ≏ 57'29	1.36223 AU
asc. node	15624 Oct 25 16:09	15°M28'25			15625 Oct 09 15:16	0° M .	
				asc. node	15625 Oct 12 12:52	5°M38'36	
superior conj	15624 Oct 30 04:37	24°M42'29	0°40'39				
minimum elong	15624 Oct 30 02:39	24°MJ32'12	0°40'57	superior conj	15625 Oct 13 19:40	8°M11'22	0°11'41
	15624 Nov 01 17:02	0° ∡ ¹		minimum elong	15625 Oct 13 18:56	8° M 07'45	0°12'01
evening rise	15624 Nov 06 12:42	10° ∡ 12'51		behind sun begin	15625 Oct 13 14:41	7° M 46'33	
	15624 Nov 16 18:12	0°ರ		behind sun end	15625 Oct 13 23:11	8°M28'59	
evening max el	15624 Nov 26 06:33	12° る 47'00	21°19'16	evening rise	15625 Oct 21 19:10	24°M26'38	
desc. node	15624 Nov 27 03:03	13° る 35'46		-	15625 Oct 24 13:05	0° ∡ ¹	
retrograde	15624 Dec 08 05:19	18° පි 41'47		evening max el	15625 Nov 08 10:18	23° 尽 ³33′03	19°57'43
evening set	15624 Dec 11 01:23	18° ට 23'12		desc. node	15625 Nov 14 00:12	27° ҂ ³37'42	
inferior conj	15624 Dec 19 19:25	14° ප 32'17	-5°46'24	retrograde	15625 Nov 18 18:26	28° ҂ ⁴42'20	
minimum elong	15624 Dec 19 13:01	14° පි 41'19	5°44'42	evening set	15625 Nov 20 20:10	28° 尽 30'53	
min. Earth dist.	15624 Dec 20 06:57	14° ප 16'03	0.54411 AU	inferior conj	15625 Nov 29 15:09	24° ₹ 31'56	-4°36'59
morning rise	15624 Dec 28 01:02	10° ප 42'17		minimum elong	15625 Nov 29 05:05	24° ∡ ⁴47'13	4°33'17
direct	15624 Dec 31 23:55	10° ට 08'27		min. Earth dist.	15625 Dec 01 13:53	23° ҂ ¹20'56	0.54993 AU
morning max el	15625 Jan 13 20:31	16° ප 22'54	22°37'18	morning rise	15625 Dec 07 12:51	20° ≯ 22'33	
asc. node	15625 Jan 21 15:29	25° る 47'26		direct	15625 Dec 12 12:18	19° ∡ ¹28'25	
	15625 Jan 24 09:08	0° ≈		morning max el	15625 Dec 26 05:24	26° х 16'41	24°27'13
morning set	15625 Feb 04 23:25	22° ≈ 08'59		S	15625 Dec 29 18:17	0°ెవ	
Ü	15625 Feb 08 15:15	0° ∀		asc. node	15626 Jan 08 12:44	13° る 47'10	
					15626 Jan 17 05:09	0° ≈	
superior conj	15625 Feb 11 23:10	7°) €09'02	1°23'14	morning set	15626 Jan 20 11:27	6°≈51'58	
minimum elong	15625 Feb 12 01:18	7°) €20'21	1°23'26	Ç			
max. Earth dist.	15625 Feb 15 13:36	14°) 42′48	1.33747 AU	superior conj	15626 Jan 27 06:09	21° ≈ 42'16	1°33'39
evening rise	15625 Feb 20 01:47	23°) (46′03		minimum elong	15626 Jan 27 07:24	21° ≈ 49'09	1°34'11
desc. node	15625 Feb 23 03:35	29°) 38'12		max. Earth dist.	15626 Jan 29 12:39	26° ≈ 38'46	1.32342 AU
	15625 Feb 23 08:16	0°Υ			15626 Jan 31 02:13	0°) €	
	15625 Mar 13 19:30	0°8		evening rise	15626 Feb 03 17:26	7°) 33'39	
evening max el	15625 Mar 26 19:42	15° 8 36'13	27°08'23	desc. node	15626 Feb 10 00:14	19°) (44′26	
retrograde	15625 Apr 09 07:12	23° 8 07'03			15626 Feb 15 20:29	0°Υ	
-						-	
evening set	15625 Apr 15 21:27	20° 8 35'52		evening max el	15626 Mar 09 08:15	28° Y 50'10	27°34'00

	15626 Mar 10 14:15	0° ႘			15627 Feb 09 21:07	0° Υ	
retrograde	15626 Mar 23 04:00	6° 8 20'00		evening max el	15627 Feb 19 17:05	11° Υ 26'16	27°28'23
evening set	15626 Mar 29 23:15	3° 8 56'29		retrograde	15627 Mar 05 16:35	18° Y 49'12	27 20 23
min. Earth dist.	15626 Apr 02 17:58	0° 8 41'59	0.63484 AU	evening set	15627 Mar 12 11:59	16° Y 40'34	
	15626 Apr 03 10:51	30°RƳ		min. Earth dist.	15627 Mar 16 06:54	13° Y 49'00	0.61316 AU
inferior conj	15626 Apr 05 12:51	27° Y ′52'12	-0°16'38	inferior conj	15627 Mar 19 10:00	11° Υ '00'45	-1°34'22
minimum elong	15626 Apr 05 13:22	27° Y ′50'51	0°16'45	minimum elong	15627 Mar 19 13:23	10° Y 53′07	1°33'04
asc. node	15626 Apr 06 09:43	26° Y ′59′28		asc. node	15627 Mar 24 07:07	7° Y 10′27	
morning rise	15626 Apr 12 05:59	22° Y '36'32		morning rise	15627 Mar 26 17:59	6° Y 03'16	
direct	15626 Apr 14 16:26	22° Y ′07'31		direct	15627 Mar 28 21:41	5° Ƴ 43'23	
morning max el	15626 Apr 21 02:53	25° Y °24'28	17°46'45	morning max el	15627 Apr 04 19:39	9° Y 11'54	17°51'11
	15626 Apr 25 00:14	0°8			15627 Apr 18 12:19	0°8	
morning set	15626 May 07 14:42	20° 8 21'59		morning set	15627 Apr 20 11:49	3° 8 33'06	
desc. node	15626 May 09 01:56	22° 8 52'42		desc. node	15627 Apr 25 22:42	13° 8 18'33	
	15626 May 13 06:32	Π $^{\circ}0$					
				superior conj	15627 May 01 11:15	22° 8 55'53	-0°43'46
superior conj	15626 May 20 07:03	11° Ⅲ 38'57	-1°21'51	minimum elong	15627 May 01 07:16	22° 8 38'50	0°43'48
minimum elong	15626 May 19 23:25	11° Ⅱ 07'45	1°21'42		15627 May 05 15:48	Π $^{\circ}0$	
max. Earth dist.	15626 May 26 02:21	20° Ⅱ 59'16	1.44872 AU	max. Earth dist.	15627 May 08 17:49	5° Ⅱ 04'34	1.43332 AU
	15626 May 31 20:10	0 \circ		evening rise	15627 May 15 09:06	15° Ⅱ 40'16	
evening rise	15626 Jun 04 15:16	5° 5 51'08			15627 May 24 18:39	0 \circ \odot	
	15626 Jun 20 21:04	$0^{\circ}\Omega$		evening max el	15627 Jun 16 03:45	29° 5 541'17	21°43'44
asc. node	15626 Jul 03 08:06	15° Ω 49'34			15627 Jun 16 11:19	0 $^{\circ}$ Ω	
evening max el	15626 Jul 03 07:35	15° Ω 48'17	20°30'53	asc. node	15627 Jun 20 05:00	3° Ω 08'36	
retrograde	15626 Jul 11 08:43	20° Ω 24'36		retrograde	15627 Jun 25 07:13	5° Ω 01'15	
evening set	15626 Jul 15 11:52	18° Ω 47'45		evening set	15627 Jun 29 21:24	3° Ω 07′24	
inferior conj	15626 Jul 20 17:52	12° Ω 42'12	3°08'00		15627 Jul 02 19:21	30° ₹ 5	
minimum elong	15626 Jul 20 18:20	12° Ω 40′36	3°07'18	inferior conj	15627 Jul 05 03:07	26° © 51'22	3°07'39
min. Earth dist.	15626 Jul 21 10:27	11° Ω 45'11	0.68497 AU	minimum elong	15627 Jul 05 02:38	26° © 53'05	3°06'50
morning rise	15626 Jul 26 00:29	6° Ω 19'41		min. Earth dist.	15627 Jul 05 06:20	26°9540'07	0.69026 AU
direct	15626 Jul 31 10:31	3° Ω 57'40		morning rise	15627 Jul 10 07:40	20° © 34'47	
desc. node	15626 Aug 05 00:44	5° Ω 19'56		direct	15627 Jul 15 05:23	18° © 29'03	
morning max el	15626 Aug 11 11:40	10° Ω 33'38	23°57'59	desc. node	15627 Jul 22 22:05	22° © 17'23	
	15626 Aug 26 22:55	0° m/y		morning max el	15627 Jul 25 00:01	24°9514'52	22°29'00
	15626 Sep 15 04:44	0∘ ⊽			15627 Jul 30 02:59	0 $^{\circ}\Omega$	
morning set	15626 Sep 15 17:00	0° Ω 52'16			15627 Aug 20 08:17	0° m/	
max. Earth dist.	15626 Sep 19 10:57	7° ≏ 23'08	1.38573 AU	morning set	15627 Aug 27 12:20	11° m) 20'45	
	15/0/ 0 0/ 00 15	210 2 0 440	0000100	max. Earth dist.	15627 Sep 01 11:39	19° m/34'00	1.40949 AU
superior conj	15626 Sep 26 22:15	21° Ω 04'49			15627 Sep 07 12:45	0∘ ⊽	
minimum elong	15626 Sep 26 23:48	21° Ω 12'09	0°21'32		15/27 0 00 00 11	20 0 12112	0050125
asc. node	15626 Sep 29 09:32	25° Ω 48'29		superior conj	15627 Sep 09 08:11	3° £ 13'13 3° £ 33'56	
arranina riaa	15626 Oct 01 13:16 15626 Oct 05 19:48	0°ጤ 8°ጤ24'05		minimum elong	15627 Sep 09 12:48		0-37-44
evening rise		8°111⊾24°05 0° √ 7		asc. node	15627 Sep 16 06:09	15° £ 54'41 21° £ 57'05	
evening max el	15626 Oct 17 22:57 15626 Oct 22 04:12	5° ∡ ¹08'36	18°58'02	evening rise	15627 Sep 19 11:21 15627 Sep 23 19:06	0°M	
retrograde	15626 Oct 30 22:40	9° ∡ 33'44	18 38 02	evening max el	15627 Oct 05 09:12	17°M29'46	18°20'21
desc. node	15626 Oct 30 22:40	9° × ³³ 44		retrograde	15627 Oct 12 22:21	21°M20'15	18 2021
evening set	15626 Nov 01 19:54	9° × ⁷ 22'18		evening set	15627 Oct 12 22:21 15627 Oct 14 23:15	21°M04'08	
inferior conj	15626 Nov 10 03:40	5° × ² 213	-2°56'07	desc. node	15627 Oct 14 25:15	19°M17'30	
minimum elong	15626 Nov 09 20:24	5° √ 17'57		inferior conj	15627 Oct 22 13:56	16°M25'58	-1°13'09
min. Earth dist.	15626 Nov 13 01:12	3°×1707	0.56407 AU	minimum elong	15627 Oct 22 11:10	16°M31'39	
morning rise	15626 Nov 17 18:07	0° х 21'43		min. Earth dist.	15627 Oct 25 20:03	13°M46'55	0.58398 AU
	15626 Nov 18 15:12	30°RM		morning rise	15627 Oct 29 19:36	11°M05'22	
direct	15626 Nov 23 12:57	29°M02'55		direct	15627 Nov 05 03:49	9° ™ 19'39	
	15626 Nov 28 11:16	0° ₹		morning max el	15627 Nov 19 10:54	16°M56'52	27°20'37
morning max el	15626 Dec 07 16:21	6° х 18′03	26°07'40	5 5	15627 Nov 30 05:52	0° ⊼	
C	15626 Dec 25 00:16	8°0		asc. node	15627 Dec 13 07:00	21° х 43′03	
asc. node	15626 Dec 26 09:54	2° る 29'21			15627 Dec 17 11:36	0°ප	
morning set	15627 Jan 04 22:33	21° る 27'54		morning set	15627 Dec 20 06:56	5° る 52'13	
Ç	15627 Jan 08 19:56	0° ≈		Ç			
				superior conj	15627 Dec 27 03:49	21° ට 00'15	1°36'09
superior conj	15627 Jan 11 16:21	6° ≈ 21'06	1°37'55	minimum elong	15627 Dec 27 02:59	20° る 55'37	1°36'57
minimum elong	15627 Jan 11 16:34	6° ≈ 22'17	1°38'40	max. Earth dist.	15627 Dec 27 01:22	20° る 46'35	1.31039 AU
max. Earth dist.	15627 Jan 12 17:41	8° ≈ 41'58	1.31428 AU		15627 Dec 31 04:41	0° ≈	
evening rise	15627 Jan 18 17:03	21° ≈ 39′09		evening rise	15628 Jan 02 22:20	5° ≈ 57'02	
	15627 Jan 22 19:33	0° ∀		desc. node	15628 Jan 14 17:37	28° ≈ 49'50	
desc. node	15627 Jan 27 20:54	9°) 30′50			15628 Jan 15 10:07	0° ∀	

evening max el	15628 Feb 01 19:31	23° X 13'19	26°47'55	superior conj	15628 Dec 10 14:41		1°28'24
	15628 Feb 12 13:21	0° γ		minimum elong	15628 Dec 10 12:58	5°る25'04	1°29'07
retrograde	15628 Feb 15 19:47	0° Υ 26'18		evening rise	15628 Dec 17 07:14	20° පි 22'44	
	15628 Feb 19 01:05	30° ₹			15628 Dec 21 21:34	0°≈	
evening set	15628 Feb 22 08:23	28°) (39'36	0.50051 477	desc. node	15628 Dec 31 14:26	17° ≈ 31'37	
min. Earth dist.	15628 Feb 26 09:25	26°) €00'52			15629 Jan 09 15:44	0°) {	25024120
inferior conj	15628 Feb 29 14:21	23°) (30'49		evening max el	15629 Jan 13 13:53	4°) €08'21	25°34'29
minimum elong	15628 Feb 29 21:14	23°) 17′20	2°59'18	retrograde	15629 Jan 27 11:38	11°) €08'32	
morning rise	15628 Mar 08 13:35	18°) ₹54'13		evening set	15629 Feb 02 08:45	9°) (49'13	
asc. node	15628 Mar 10 04:32	18°) (40′25		min. Earth dist.	15629 Feb 07 02:39	7°) €09'03	0.56996 AU
direct	15628 Mar 10 13:11	18°) (39′56		inferior conj	15629 Feb 09 22:42	5°) 13′56	
morning max el	15628 Mar 18 08:01	22°) (31'25	18°14'48	minimum elong	15629 Feb 10 07:58	4°) € 58'14	4°26'45
	15628 Mar 24 04:05	0° Υ		morning rise	15629 Feb 18 10:03	0°) 58'44	
morning set	15628 Apr 03 00:01	17° Y ′24'49		direct	15629 Feb 20 10:53	0°) 46′14	
	15628 Apr 09 17:10	0°8		asc. node	15629 Feb 25 01:56	1° ¥ 55'06	
desc. node	15628 Apr 11 19:21	3° 8 49'49		morning max el	15629 Mar 01 11:51	5° ¥ 11'32	18°59'23
					15629 Mar 17 01:34	0° Υ	
superior conj	15628 Apr 12 13:51	5° 8 13'35		morning set	15629 Mar 17 22:42	1° Y 43'45	
minimum elong	15628 Apr 12 13:19	5° 8 11'12	0°06'43				
behind sun begin	15628 Apr 12 06:29	4° 8 40'17		superior conj	15629 Mar 26 10:48	18° Y 20'35	0°26'42
behind sun end	15628 Apr 12 20:09	5° 8 42'03		minimum elong	15629 Mar 26 12:26	18° Y ′28′23	0°26'14
max. Earth dist.	15628 Apr 20 04:08	18° 8 30'55	1.41322 AU	desc. node	15629 Mar 29 15:58	24° Y 23'00	
evening rise	15628 Apr 24 21:08	26° 8 19'50			15629 Apr 01 17:58	9° 8	
	15628 Apr 27 03:45	Π $^{\circ}0$		max. Earth dist.	15629 Apr 02 10:45	1° 8 14'56	1.39068 AU
	15628 May 17 11:49	0 \circ ∞		evening rise	15629 Apr 06 06:34	7° 8 55'30	
evening max el	15628 May 28 19:31	13° © 34'22	23°03'46		15629 Apr 20 02:11	Π $^{\circ}0$	
asc. node	15628 Jun 06 01:59	19° © 20'17		evening max el	15629 May 11 09:22	27° Ⅲ 29'25	24°24'52
retrograde	15628 Jun 08 03:37	19° © 38'54			15629 May 14 02:48	0 \circ \odot	
evening set	15628 Jun 13 05:16	17° © 29'58		retrograde	15629 May 22 20:44	4° © 12'06	
min. Earth dist.	15628 Jun 18 03:15	11° 5 39'28	0.69069 AU	asc. node	15629 May 23 23:05	4° © 06'56	
inferior conj	15628 Jun 18 13:01	11° © 05'37	2°56'44	evening set	15629 May 28 09:53	1° © 51'02	
minimum elong	15628 Jun 18 11:40	11° © 10'15	2°55'42		15629 May 30 06:21	30°Ŗ Ⅱ	
morning rise	15628 Jun 23 17:59	4° © 56'30		min. Earth dist.	15629 Jun 01 23:03	26° Ⅲ 37'33	0.68633 AU
direct	15628 Jun 28 03:23	3° 5 09'44		inferior conj	15629 Jun 02 21:41	25° Ⅲ 21′26	2°35'23
morning max el	15628 Jul 06 16:33	8° 5 04'57	21°05'33	minimum elong	15629 Jun 02 19:44	25° Ⅲ 28′01	2°34'06
desc. node	15628 Jul 08 19:20	10° 5 019'26		morning rise	15629 Jun 08 05:41	19° Ⅲ 21′09	
	15628 Jul 23 13:20	$0^{\circ}\Omega$		direct	15629 Jun 12 03:17	17° Ⅲ 54'12	
morning set	15628 Aug 06 08:01	20° Ω 49'08		morning max el	15629 Jun 19 15:42	22° II 05'53	19°53'35
	15628 Aug 12 03:03	0° m		desc. node	15629 Jun 25 16:29	29° Ⅱ 09'24	
max. Earth dist.	15628 Aug 13 17:42	2° Mp 36'10	1.43079 AU		15629 Jun 26 07:49	0 \circ \mathfrak{S}	
	•	-		morning set	15629 Jul 16 12:36	29° 5 641'24	
superior conj	15628 Aug 20 21:00	14° Mp 26'25	-1°33'33		15629 Jul 16 17:27	$0^{\circ}\Omega$	
minimum elong	15628 Aug 21 04:20	14° m 57'30	1°33'00	max. Earth dist.	15629 Jul 27 06:20	16° Ω 25'20	1.44729 AU
C	15628 Aug 29 19:39	0∘ <u>⊽</u>					
evening rise	15628 Sep 01 13:31	4° £ 53′50		superior conj	15629 Aug 01 10:21	24° Ω 41'20	-2°01'11
asc. node	15628 Sep 02 02:44	5° Ω 52'53		minimum elong	15629 Aug 01 17:21	25° Ω 09'37	2°01'18
	15628 Sep 17 10:41	0° M		Č	15629 Aug 04 16:42	0° m	
evening max el	15628 Sep 17 21:00		18°03'08	evening rise	15629 Aug 14 21:16	17° m 02'11	
retrograde	15628 Sep 24 15:10	3°M54'57		asc. node	15629 Aug 19 23:20	25° m/39'14	
evening set	15628 Sep 26 23:16	3°M30'01			15629 Aug 22 14:05	0∘ ⊽	
· ·	15628 Oct 02 06:29	30° ₽ Ω		evening max el	15629 Sep 01 11:40	13° ≏ 48'36	18°04'49
inferior conj	15628 Oct 03 20:42	28° ≏ 31'41	0°15'10	retrograde	15629 Sep 07 20:59	17° ≏ 08'58	
minimum elong	15628 Oct 03 21:11	28° ≏ 30'31	0°15'19	evening set	15629 Sep 10 13:32	16° ≏ 31'41	
transit middle	15628 Oct 03 21:11	28° ჲ 30'31	0°15'19	inferior conj	15629 Sep 16 20:17	11° ≏ 15'12	1°23'33
transit begin	15628 Oct 03 20:07	28° ჲ 33'03		minimum elong	15629 Sep 16 22:20	11° ≏ 09'41	1°22'56
transit end	15628 Oct 03 22:15	28° ≏ 27'59		min. Earth dist.	15629 Sep 19 13:57	8° ≏ 19'58	0.62934 AU
desc. node	15628 Oct 04 16:09	27° Ω 45'22		desc. node	15629 Sep 21 13:34	6° ≏ 24'44	
min. Earth dist.	15628 Oct 07 00:08	25° Ω 34'08	0.60665 AU	morning rise	15629 Sep 23 04:56	5° ഫ 04'05	
morning rise	15628 Oct 10 16:00	22° Ω 40'51		direct	15629 Sep 29 21:05	2° Ω 36'13	
direct	15628 Oct 17 07:18	20° Ω 30'36		morning max el	15629 Oct 13 20:56	10° ♀ 35'20	27°52'27
morning max el	15628 Oct 31 13:10	28° Ω 23'24	27°56'02	<i>5</i> •••• ••	15629 Oct 29 03:29	0°M	
<i>5</i>	15628 Nov 02 02:59	0°M			15629 Nov 15 10:27	0° ∡ 7	
	15628 Nov 23 02:14	0°× 7 1		asc. node	15629 Nov 16 00:50	1° × 11'19	
asc. node	15628 Nov 29 03:58	11° √ 19'21		morning set	15629 Nov 17 07:33	3° х 45′50	
morning set	15628 Dec 03 10:41	20° ₹ 00'10		max. Earth dist.	15629 Nov 22 10:00	14° ∡ 26'47	1.31911 AU
	15628 Dec 08 02:17	0°る			10.00	. 20 .7	
max. Earth dist.	15628 Dec 09 08:05	2°る44'33	1.31192 AU	superior conj	15629 Nov 24 23:00	19° ∡ 58'07	1°14'37
					22.30		

minimum elong	15629 Nov 24 20:45	19° ∡ ¹45'47	1°15'09	superior conj	15630 Nov 09 02:42	4° ∡ ¹05'41	0°54'47
minimum ciong	15629 Nov 29 12:26	0°る	1 1307	minimum elong	15630 Nov 09 00:25	3° ∡ 753′32	0°55'09
evening rise	15629 Dec 01 17:53	⁰ ਰ 4°ਰ51'04		evening rise	15630 Nov 16 04:30	19° × 717'56	0 33 07
e vennig rise	15629 Dec 14 21:34	0° ≈		evening rise	15630 Nov 21 09:03	0°ਰ	
desc. node	15629 Dec 18 11:20	5°≈21'40		desc. node	15630 Dec 05 08:20	22° ට 01'46	
evening max el	15629 Dec 26 01:04		23°57'41	evening max el	15630 Dec 07 11:31	24° පි 16'20	22°14'29
retrograde	15630 Jan 08 13:48	21° ≈ 02'43		<i>5</i>	15630 Dec 16 10:02	0° ≈	
evening set	15630 Jan 13 10:10	20°≈11'42		retrograde	15630 Dec 20 03:46	0° ≈ 32'45	
min. Earth dist.	15630 Jan 19 12:34	17° ≈ 12'48	0.55384 AU	evening set	15630 Dec 23 16:59	0° ≈ 04'55	
inferior conj	15630 Jan 21 10:04	16° ≈ 04'50	-5°38'18	•	15630 Dec 24 00:26	30°Ŗる	
minimum elong	15630 Jan 21 17:06	15° ≈ 54'20	5°36'34	inferior conj	15631 Jan 01 05:15	26° ප 12'35	-6°01'05
morning rise	15630 Jan 30 01:42	12° ≈ 08'09		minimum elong	15631 Jan 01 03:57	26° る 14'24	6°00'13
direct	15630 Feb 01 13:12	11° ≈ 52'34		min. Earth dist.	15630 Dec 31 18:16	26° る 27'58	0.54508 AU
asc. node	15630 Feb 11 23:20	16° ≈ 50'53		morning rise	15631 Jan 09 15:55	22° る 25'24	
morning max el	15630 Feb 12 02:54	16° ≈ 59′29	20°06'54	direct	15631 Jan 13 00:23	22° る 00'20	
	15630 Feb 21 15:49	0° ∀		morning max el	15631 Jan 25 02:57	27° る 50'37	21°37'15
morning set	15630 Mar 02 04:15	16° ¥ 18'30			15631 Jan 27 05:00	0° ≈ ≈	
	15630 Mar 08 21:02	0° Y		asc. node	15631 Jan 29 20:40	3° ≈ 12'09	
					15631 Feb 14 02:15	0°)	
superior conj	15630 Mar 09 21:39	2° Y 03'45	0°53'46	morning set	15631 Feb 14 13:59	1° 米 01′24	
minimum elong	15630 Mar 10 00:10	2° Y 16'20	0°53'27				
max. Earth dist.	15630 Mar 15 17:30	13° Y ′24'23	1.36811 AU	superior conj	15631 Feb 21 18:41	16° ¥ 13′06	1°14'20
desc. node	15630 Mar 16 12:32	14° Y 53'44		minimum elong	15631 Feb 21 21:08	16° ¥ 25'53	1°14'19
evening rise	15630 Mar 19 11:28	20° Y 19′25		max. Earth dist.	15631 Feb 26 04:53	25° 米 16'41	1.34764 AU
	15630 Mar 25 00:33	0° 8			15631 Feb 28 14:21	0° Y	
	15630 Apr 14 02:17	Π °0		evening rise	15631 Mar 02 08:31	3° Υ '22'26	
evening max el	15630 Apr 23 22:58	11° Ⅲ 23′16	25°40'02	desc. node	15631 Mar 03 09:08	5° Υ 18'31	
retrograde	15630 May 06 09:17	18° Ⅲ 33'24			15631 Mar 17 22:21	0° 8	
asc. node	15630 May 10 20:17	17° Ⅱ 12'27		evening max el	15631 Apr 06 12:46	25° 8 09'27	26°41'45
evening set	15630 May 12 09:34	16° Ⅱ 04'06			15631 Apr 12 09:32	Π °0	
min. Earth dist.	15630 May 16 15:34	11° Ⅱ 27'06	0.67725 AU	retrograde	15631 Apr 19 16:29	2° ∏ 35'34	
inferior conj	15630 May 18 03:07	9° Ⅱ 33'37	2°03'08	evening set	15631 Apr 26 02:29	0°П03'05	
minimum elong	15630 May 18 00:57	9° Ⅱ 40'34	2°01'43		15631 Apr 26 04:00	30° ₹ 8	
morning rise	15630 May 23 16:51	3° Ⅱ 43'32		asc. node	15631 Apr 27 17:34	28° 8 35'34	0.66275 ATT
direct	15630 May 27 03:22	2° Ⅱ 35'48	10057125	min. Earth dist.	15631 Apr 30 02:41	26° 8 00'58	0.66375 AU 1°19'05
morning max el desc. node	15630 Jun 02 22:10	6°Ⅲ15'42 18°Ⅲ34'02	18°56'35	inferior conj	15631 May 02 03:10	23° 8 37'08	
	15630 Jun 12 13:32 15630 Jun 16 05:45	18°Щ34°02 24°Щ02'01	0.7	minimum elong	15631 May 02 01:21	23° 8 42'32	1°17'49
greatest brilliancy		24° щ 02'01 0° ©	-0.7m	morning rise	15631 May 08 01:25	17° 8 08'35	
morning set	15630 Jun 20 03:41 15630 Jun 25 20:59	8°\$49'40		direct morning max el	15631 May 11 01:43 15631 May 17 10:54		18°16'00
morning set	15630 Jul 09 11:59	0°Ω		morning max er	15631 May 24 22:56	20 O 2931 0° Ⅱ	18 10 00
max. Earth dist.	15630 Jul 10 00:20		1.45721 AU	desc. node	15631 May 30 10:30	8° Ⅱ 23'58	
max. Earth dist.	13030 Jul 10 00.20	0 664613	1.43721 AU	morning set	15631 Jun 06 02:52	8 П 23 38 19° П 01'41	
superior conj	15630 Jul 12 03:23	4° Ω 08'10	-2°13'54	morning set	15631 Jun 13 00:33	0°95	
minimum elong	15630 Jul 12 04:42	4°Ω13'18			13031 3411 13 00.33	0.3	
evening rise	15630 Jul 27 05:43	28° Ω 11'09	2 11 10	superior conj	15631 Jun 21 12:09	13° © 19'19	-2°06'47
e vennig rise	15630 Jul 28 08:38	0° m)		minimum elong	15631 Jun 21 05:58	12°955'10	
asc. node	15630 Aug 06 20:00	15° m/08'52		max. Earth dist.	15631 Jun 22 20:50	15° © 26'48	1.45971 AU
evening max el	15630 Aug 16 01:47	27° m/28'12	18°24'26		15631 Jul 02 05:12	0°N	
Č	15630 Aug 19 07:34	0∘ <u>v</u>		evening rise	15631 Jul 07 13:25	8° Ω 18'58	
retrograde	15630 Aug 22 11:43	0° ჲ 53'53		greatest brilliancy	15631 Jul 18 02:52	24° Ω 39'00	-0.8m
evening set	15630 Aug 25 13:13	0° ჲ 01'33		· ·	15631 Jul 21 16:55	0° m)	
	15630 Aug 25 14:19	30°R,™)		asc. node	15631 Jul 24 16:44	4° m) 14'43	
inferior conj	15630 Aug 31 08:46	24° m/29'06	2°12'36	evening max el	15631 Jul 30 12:33	11° m)16'58	19°01'15
minimum elong	15630 Aug 31 11:06	24° Mp 22'09	2°11'48	retrograde	15631 Aug 06 07:49	15° m 01'11	
min. Earth dist.	15630 Sep 02 13:18	21° m 53'44	0.64988 AU	evening set	15631 Aug 09 18:44	13° m 52'08	
morning rise	15630 Sep 06 07:38	18°M)06'47		inferior conj	15631 Aug 15 06:34	8° m 05'35	2°44'56
desc. node	15630 Sep 08 11:00	16° m 39'26		minimum elong	15631 Aug 15 08:26	7° m 59'36	2°44'12
direct	15630 Sep 12 19:14	15° m 30'09		min. Earth dist.	15631 Aug 16 21:00	6° Mp 02'38	0.66691 AU
morning max el	15630 Sep 26 07:43	-	27°14'31	morning rise	15631 Aug 20 21:22	1° m 39'14	
	15630 Oct 02 05:02	0∘ 亚			15631 Aug 23 06:25	30°R Ω	
	15630 Oct 22 11:24	0° M		desc. node	15631 Aug 26 08:27	29° Ω 04'16	
morning set	15630 Oct 31 18:58	17° M 03'45		direct	15631 Aug 27 00:40	29° Ω 02'31	
asc. node	15630 Nov 02 21:37	21°M13'54			15631 Aug 31 02:33	0° ™	
max. Earth dist.	15630 Nov 05 03:58	25°M49'31	1.33194 AU	morning max el	15631 Sep 08 19:17	6° Mp 38'24	26°10'07
	15630 Nov 07 04:13	0° ∡ ¹			15631 Sep 26 22:17	0∘ 亚	
				morning set	15631 Oct 14 17:36	29° ≏ 46'07	

	15631 Oct 14 20:35	0° M			15632 Oct 05 20:00	o°M.	
max. Earth dist.	15631 Oct 18 12:16	6°M56'34	1.34997 AU				
asc. node	15631 Oct 20 18:21	11°M22'18		superior conj	15632 Oct 06 09:21	1°M05'05	-0°02'10
				minimum elong	15632 Oct 06 09:29	1°M05'40	0°01'47
superior conj	15631 Oct 23 23:11	17°M50'21	0°29'01	behind sun begin	15632 Oct 06 02:54	0°M33'35	
minimum elong	15631 Oct 23 21:37	17°M42'21	0°29'18	behind sun end	15632 Oct 06 16:03	1°M37'49	
avanina riaa	15631 Oct 29 19:23	0° द्र ¹ 3° द्र ¹ 37'53		asc. node	15632 Oct 06 15:03	1°M32'56 17°M45'34	
evening rise	15631 Oct 31 13:06 15631 Nov 15 07:46	ッメ・ッ/ ショ		evening rise	15632 Oct 14 17:26 15632 Oct 21 00:10	17 11643 34 0° x 7	
evening max el	15631 Nov 19 06:57	4°る35'33	20°41'55	evening max el	15632 Oct 31 16:52	15° × ⁷ 42'24	19°29'31
desc. node	15631 Nov 22 05:27	7° る 08'15	20 1100	desc. node	15632 Nov 08 02:39	20°×12'00	1, 2, 01
retrograde	15631 Nov 30 13:59	10° る 12'13		retrograde	15632 Nov 10 08:36	20° ∡ ³32'16	
evening set	15631 Dec 03 00:22	9° ට 57'45		evening set	15632 Nov 12 06:43	20° ∡ "21′38	
inferior conj	15631 Dec 11 20:23	6° る 04'32	-5°22'47	inferior conj	15632 Nov 20 22:09	16° ⊀ 15'56	-3°56'04
minimum elong	15631 Dec 11 11:27	6° る 17'24		minimum elong	15632 Nov 20 12:46	16° ∡ ³31′02	
min. Earth dist.	15631 Dec 12 23:44	5°る25'06	0.54544 AU	min. Earth dist.	15632 Nov 23 08:28	14° ∡ °42'17	0.55504 AU
morning rise	15631 Dec 19 22:26	2°る08'47		morning rise	15632 Nov 28 16:46	11° x 52'43	
direct	15631 Dec 24 08:00 15632 Jan 06 15:06	1°る27'15 7°る56'50	23°24'08	direct	15632 Dec 04 01:02	10° х 48′26 17° х 49′46	25012121
morning max el asc. node	15632 Jan 06 15:06 15632 Jan 16 17:57	700000 20° 石 40'16	23 24 08	morning max el	15632 Dec 17 23:56 15632 Dec 28 00:11	1/* メ ・4946	25-12/21
asc. node	15632 Jan 22 05:30	20°≈		asc. node	15633 Jan 02 15:09	8° る 59'19	
morning set	15632 Jan 30 01:42	15° ≈ 45'41		use. Houe	15633 Jan 13 08:41	0°≈	
3				morning set	15633 Jan 13 13:30	0°≈25'54	
superior conj	15632 Feb 05 22:45	0°) 39'39	1°28'26				
minimum elong	15632 Feb 06 00:32	0°) 49′19	1°28'46	superior conj	15633 Jan 20 07:19	15° ≈ 15'55	1°36'13
	15632 Feb 05 15:24	0° ∀		minimum elong	15633 Jan 20 08:08	15° ≈ 20′28	1°36'51
max. Earth dist.	15632 Feb 08 23:26	7° ∺ 07'33	1.33085 AU	max. Earth dist.	15633 Jan 22 01:00	19° ≈ 05'12	1.31881 AU
evening rise	15632 Feb 13 18:13	16° ¥ 55'38			15633 Jan 27 03:35	0°) {	
desc. node	15632 Feb 18 05:46	25°) 32′56 0° °		evening rise	15633 Jan 27 13:30	0°) €51'17	
	15632 Feb 20 16:16 15632 Mar 11 08:24	0°8		desc. node	15633 Feb 04 02:25 15633 Feb 12 15:42	15° ¥ 31′25 0° Ƴ	
evening max el	15632 Mar 19 02:00	8° 8 38'07	27°22'42	evening max el	15633 Mar 01 13:05	21° Υ 36'56	27°35'50
retrograde	15632 Apr 01 17:32	16° 8 09'56	2, 22 12	retrograde	15633 Mar 15 11:19	29°Υ05'29	27 33 30
evening set	15632 Apr 08 10:34	13° 8 40'45		evening set	15633 Mar 22 07:12	26° Ƴ 47'17	
min. Earth dist.	15632 Apr 12 06:31	10° 8 10'25	0.64627 AU	min. Earth dist.	15633 Mar 26 01:22	23° Y '43'31	0.62571 AU
asc. node	15632 Apr 13 14:54	8° 8 43'35		inferior conj	15633 Mar 29 00:21	20° Y ′52'08	-0°48'07
inferior conj	15632 Apr 14 19:17	7° 8 26'11	0°22'14	minimum elong	15633 Mar 29 01:58	20° Y 48'12	0°47'40
minimum elong	15632 Apr 14 18:40	7° 8 27'52	0°21'32	asc. node	15633 Mar 31 12:17	18° Ƴ 33'24	
morning rise	15632 Apr 21 04:49	2° 8 01'50		morning rise	15633 Apr 04 23:38	15° Y 44'02	
direct	15632 Apr 23 19:53	1° 8 26'07	17052120	direct	15633 Apr 07 06:50	15° Y 19'28	17046125
morning max el desc. node	15632 Apr 30 03:38 15632 May 16 07:22	4° 8 41'20 28° 8 32'26	17°52'28	morning max el	15633 Apr 13 21:19 15633 Apr 22 04:58	18° Y 40'17 0° と	1/-46/23
desc. node	15632 May 17 04:23	0°Ⅱ		morning set	15633 Apr 29 22:12	13° 8 13'12	
morning set	15632 May 17 12:22	0° Д 33'16		desc. node	15633 May 03 04:09	18° 8 53'13	
S	,				15633 May 09 15:52	0°Щ	
superior conj	15632 May 31 05:58	23° 川 00'40	-1°41'40				
minimum elong	15632 May 30 21:16	22° Ⅱ 25'55	1°41'39	superior conj	15633 May 11 20:29	3° ∏ 40′08	-1°05'59
max. Earth dist.	15632 Jun 04 16:48	0° © 03'35	1.45471 AU	minimum elong	15633 May 11 14:16	3° Ⅱ 14'16	
	15632 Jun 04 15:53	0°©		max. Earth dist.	15633 May 18 09:57	14° Ⅱ 22'45	1.44282 AU
evening rise	15632 Jun 16 03:26 15632 Jun 24 04:34	17°9547'21		evening rise	15633 May 26 15:12	27° Ⅱ 17'23 0° ⑤	
greatest brilliancy	15632 Jun 24 04:34 15632 Jun 30 20:24	0° Ω 9° Ω 50'58	-0.6m		15633 May 28 09:34 15633 Jun 18 02:09	0°€ 0°€	
asc. node	15632 Jul 10 13:33	22°Ω48'38	-0.0111	evening max el	15633 Jun 25 17:26	9° Ω 03'03	21°00'39
evening max el	15632 Jul 12 18:00	25°Ω09'43	19°54'03	asc. node	15633 Jun 27 10:25	10° Ω 39'00	21 00 37
retrograde	15632 Jul 20 06:29	29° £ 24'32		retrograde	15633 Jul 04 05:28	13° Ω 57'36	
evening set	15632 Jul 24 03:26	27° Ω 57'57		evening set	15633 Jul 08 13:08	12° Ω 13'37	
inferior conj	15632 Jul 29 10:44	21° Q 58'54	3°03'07	inferior conj	15633 Jul 13 18:44	6° Ω 03′28	3°09'10
minimum elong	15632 Jul 29 11:45	21° Ω 55'27	3°02'26	minimum elong	15633 Jul 13 18:47		3°08'25
min. Earth dist.	15632 Jul 30 11:12	20° Ω 36'21	0.67970 AU	min. Earth dist.	15633 Jul 14 05:40	5° Ω 25'30	0.68785 AU
morning rise	15632 Aug 03 19:38	15° Ω 33'43			15633 Jul 18 16:41	30°₹©	
direct desc. node	15632 Aug 09 12:20	13° Ω 04'27 13° Ω 33'36		morning rise direct	15633 Jul 19 00:09 15633 Jul 24 05:01	29° © 42'59 27° © 27'12	
morning max el	15632 Aug 12 05:52 15632 Aug 21 06:19	13°8 (33°36) 20°Ω06'47	24°48'38	desc. node	15633 Jul 24 05:01 15633 Jul 30 03:13	27°9527′12 29°9543'50	
morning max or	15632 Aug 29 17:45	0°m)	2030	desc. node	15633 Jul 30 12:14	0°Ω	
	15632 Sep 19 01:46	0∘ ⊽		morning max el	15633 Aug 03 17:20	3° Ω 42'50	23°19'44
morning set	15632 Sep 25 23:31	11° ≏ 44'15		-	15633 Aug 23 20:59	0° m	
max. Earth dist.	15632 Sep 29 12:37	18° ≏ 05'53	1.37202 AU	morning set	15633 Sep 07 08:25	22°Mp47'36	

max. Earth dist.	15633 Sep 11 10:58 15633 Sep 11 14:07	29° ™ 46'21 0° ≏	1.39597 AU	morning set	15634 Aug 16 22:35 15634 Aug 18 17:18	0° Mp 2° Mp49'16	
	13033 Sep 11 11.07	о —		max. Earth dist.	15634 Aug 24 13:47	12° m) 19'45	1.41908 AU
superior conj	15633 Sep 19 05:24	13° ≏ 40'52	-0°37'21		-		
minimum elong	15633 Sep 19 08:11	13° ≏ 53'47	0°36'45	superior conj	15634 Sep 01 06:52	25° m 27'17	
asc. node	15633 Sep 23 11:42	21° ≏ 41'57		minimum elong	15634 Sep 01 12:48	25° m 53'15	1°13'06
	15633 Sep 27 19:13	0°M			15634 Sep 03 20:40	0∘ ⊽	
evening rise	15633 Sep 28 14:36	1°M33'40	10020127	asc. node	15634 Sep 10 08:18	11° 2 45'27	
evening max el	15633 Oct 14 16:06	27°MJ39'17 0°⊀	18°39'27	evening rise	15634 Sep 12 01:00	14° ≙ 52'41 0° ጤ	
retrograde	15633 Oct 17 11:17 15633 Oct 22 20:44	0° x ' 1° x ''47'46		evening max el	15634 Sep 20 12:27 15634 Sep 28 00:33	10°ML17'03	18°10'37
evening set	15633 Oct 24 18:56	1°×7'34'50		retrograde	15634 Oct 05 04:05	13°ML56'18	18 10 37
desc. node	15633 Oct 25 23:55	1° × 714'15		evening set	15634 Oct 07 07:59	13°MJ36'46	
	15633 Oct 28 15:36	30°RM₊		desc. node	15634 Oct 12 21:15	10°ML18'35	
inferior conj	15633 Nov 01 19:47	27°M09'15	-2°11'21	inferior conj	15634 Oct 14 15:06	8°M49'37	-0°33'18
minimum elong	15633 Nov 01 14:28	27°M19'12	2°08'32	minimum elong	15634 Oct 14 13:55	8°M52'11	0°32'21
min. Earth dist.	15633 Nov 04 22:50	24°M49'41	0.57204 AU	min. Earth dist.	15634 Oct 17 21:08	6°M₀00'24	0.59351 AU
morning rise	15633 Nov 09 06:44	22°M09'44		morning rise	15634 Oct 21 16:31	3°M15'23	
direct	15633 Nov 15 08:17	20°M39'06		direct	15634 Oct 28 04:41	1°ML18'48	
morning max el	15633 Nov 29 13:37	28°M04'30	26°42'49	morning max el	15634 Nov 11 11:26	9°M02'36	27°40'35
asc. node	15633 Dec 01 11:15 15633 Dec 20 12:16	0°⋪ 27°⋪56'30		asc. node	15634 Nov 27 12:57 15634 Dec 07 09:17	0° द्र ⁷ 17° द्र ⁷ 20'53	
asc. node	15633 Dec 20 12.16 15633 Dec 21 14:38	27 x・3030		morning set	15634 Dec 17 09:17	17 x ·20 33 29° x 15'32	
morning set	15633 Dec 28 23:38	14°る57'43		morning set	15634 Dec 13 14:38	0°중	
morning sec	10000 000 20 20.00	1. 007.13		max. Earth dist.	15634 Dec 19 15:23	13° ට 13'41	1.31042 AU
superior conj	15634 Jan 04 18:17	29° る 56'06	1°37'54				
minimum elong	15634 Jan 04 18:03	29° る 54'46	1°38'41	superior conj	15634 Dec 20 05:41	14° ට 33'44	1°33'35
	15634 Jan 04 18:59	0° ≈		minimum elong	15634 Dec 20 04:28	14° පි 26'51	1°34'22
max. Earth dist.	15634 Jan 05 07:31	1° ≈ 10′01	1.31195 AU	evening rise	15634 Dec 26 22:52	29° る 25'26	
evening rise	15634 Jan 11 15:49	15°≈03'25			15634 Dec 27 05:18	0° ≈	
	15634 Jan 19 03:22	0° ∀		desc. node	15635 Jan 08 19:52	24°≈12'20	
desc. node	15634 Jan 21 23:07	5°) €07'38 0° Υ		. 1	15635 Jan 12 11:13	0° ∀	26020121
avaning may al	15634 Feb 08 01:33 15634 Feb 11 19:42	3°Υ54'15	27°15'38	evening max el	15635 Jan 24 18:59 15635 Feb 07 18:18	15° 光 19'25 22° 光 26'18	26°20'21
evening max el retrograde	15634 Feb 25 20:11	11° Υ 13'10	2/ 13 38	retrograde evening set	15635 Feb 07 18.18 15635 Feb 14 01:35	20°\(\frac{1}{50}\)'59	
evening set	15634 Mar 04 13:23	9°Υ13'25		min. Earth dist.	15635 Feb 18 08:21		0.58156 AU
min. Earth dist.	15634 Mar 08 10:05	6° Υ 28'27	0.60351 AU	inferior conj	15635 Feb 21 10:56	15° ¥ 56'54	
inferior conj	15634 Mar 11 14:49	3° Y 45'59	-2°10'43	minimum elong	15635 Feb 21 19:09	15°) 41'48	3°37'05
minimum elong	15634 Mar 11 19:40	3° Y 35'40	2°08'46	morning rise	15635 Mar 01 15:56	11° ¥ 29′13	
	15634 Mar 16 17:00	30° ₹ ₩		direct	15635 Mar 03 15:24	11° ¥ 16′03	
asc. node	15634 Mar 18 09:39	29° ∺ 12'40		asc. node	15635 Mar 05 07:02	11° ∺ 25'38	
morning rise	15634 Mar 19 05:21	28°) € 56'48		morning max el	15635 Mar 11 21:44	15°) € 20'33	18°31'05
direct	15634 Mar 21 06:47	28°) (39'46			15635 Mar 22 01:07	0° Υ	
morning max el	15634 Mar 25 15:53 15634 Mar 28 12:36	0°Υ 2°Υ17'05	17°58'46	morning set	15635 Mar 27 19:32	10° Ƴ 48'26	
morning max er	15634 Apr 13 02:23	2 γ 17 03 26° Υ 43'44	17 38 40	superior conj	15635 Apr 05 21:26	28° Ƴ 03'31	0°08'21
morning set	15634 Apr 14 21:10	0°8		minimum elong	15635 Apr 05 22:00	28° Υ 06'08	0°07'55
desc. node	15634 Apr 20 00:52	9° 8 21'56		behind sun begin	15635 Apr 05 15:47	27° Y '37'21	
	1			behind sun end	15635 Apr 06 04:13	28° Ƴ 34'51	
superior conj	15634 Apr 23 10:32	15° 8 23'45	-0°27'33	desc. node	15635 Apr 06 21:30	29° Ƴ 54'20	
minimum elong	15634 Apr 23 08:09	15° 8 13'17	0°27'43		15635 Apr 06 22:45	9° 8	
max. Earth dist.	15634 Apr 30 23:12		1.42526 AU	max. Earth dist.	15635 Apr 13 08:05	11° 8 22'21	1.40381 AU
	15634 May 02 01:18	0°П		evening rise	15635 Apr 17 13:04	18° 8 30'02	
evening rise	15634 May 06 15:59	7° Ⅱ 26'39			15635 Apr 24 16:30	0°II	
evening max el	15634 May 21 13:42 15634 Jun 08 11:38	0°ഇ 22° ഇ 56'39	22017115	evening max el	15635 May 15 23:16 15635 May 22 02:22	0°ഇ 6°ഇ50'56	23°38'34
asc. node	15634 Jun 14 07:22	27°931'45	22 1/13	asc. node	15635 Jun 01 04:23	13°909'51	23 36 34
retrograde	15634 Jun 18 03:06	28°935'19		retrograde	15635 Jun 01 04.23	13°9512'13	
evening set	15634 Jun 22 22:08	26° © 34'56		evening set	15635 Jun 07 04:50	10°957'33	
inferior conj	15634 Jun 28 04:29	20°515'18	3°04'17	min. Earth dist.	15635 Jun 11 22:48	5°523'07	0.68944 AU
minimum elong	15634 Jun 28 03:36	20° © 18'21	3°03'22	inferior conj	15635 Jun 12 14:05	4° © 30'45	2°48'59
min. Earth dist.	15634 Jun 28 02:13	20°523'13	0.69112 AU	minimum elong	15635 Jun 12 12:26	4°936'22	2°47'50
morning rise	15634 Jul 03 08:54	14°501'44			15635 Jun 16 03:40	30°RⅡ	
direct	15634 Jul 08 01:28	12°503'38		morning rise	15635 Jun 17 20:02	28°II25'30	
desc. node	15634 Jul 17 00:31	17°5011'06	21952119	direct	15635 Jun 22 00:24	26° Ⅱ 47'09	
morning max el	15634 Jul 17 06:56 15634 Jul 27 15:12	17° © 27'01 0° Ω	21°52'18	morning max el	15635 Jun 28 14:56 15635 Jun 30 02:09	0°ഇ 1° ഇ 22'09	20°33'23
	13037 Jul 2/ 13.12	0 06		morning max ci	15055 Jun 50 02.09	1 224409	40 33 43

desc. node	15635 Jul 03 21:44	5° © 35'33			15636 Jun 23 12:39	0° ©	
desc. node	15635 Jul 03 21.44 15635 Jul 21 08:11	o°Ω		greatest brilliancy	15636 Jun 24 19:52	1° 9 54'05	-0.7m
morning set	15635 Jul 29 05:02	11° Ω 58'43		morning set	15636 Jul 07 08:38	20°950'52	-0.7111
max. Earth dist.	15635 Aug 06 23:26	25°Ω46'33	1.43854 AU	morning set	15636 Jul 13 06:57	0°Ω	
max. Latur dist.	15635 Aug 09 14:12	0°m)	1.45054710	max. Earth dist.	15636 Jul 19 14:38	9° Ω 52'08	1.45230 AU
	13033 Hug 07 11.12	עייי		max. Dartii dist.	13030 341 17 11.30) 00 52 00	1.13230710
superior conj	15635 Aug 13 09:53	6° m) 16'24	-1°46'37	superior conj	15636 Jul 23 13:40	16° Ω 08'02	-2°08'48
minimum elong	15635 Aug 13 17:39	6° Mp 48'36	1°46'17	minimum elong	15636 Jul 23 18:54	16° Ω 28'50	2°09'16
evening rise	15635 Aug 25 20:06	27° m/31'35			15636 Aug 01 03:47	0° m	
	15635 Aug 27 06:03	0∘ ⊽		evening rise	15636 Aug 06 18:30	9° m) 16'11	
asc. node	15635 Aug 28 04:55	1° ჲ 39'53		asc. node	15636 Aug 14 01:34	21°M 20'06	
evening max el	15635 Sep 11 14:01	23° ≏ 26'05	18°01'30		15636 Aug 19 15:20	0∘ ⊽	
retrograde	15635 Sep 18 03:15	26° ≏ 49'47		evening max el	15636 Aug 25 04:48	6° ჲ 56'39	18°10'57
evening set	15635 Sep 20 14:50	26° ≙ 19'59		retrograde	15636 Aug 31 13:27	10° ≙ 18′01	
inferior conj	15635 Sep 27 05:35	21° ≏ 13'16	0°46'39	evening set	15636 Sep 03 09:38	9° £ 34'46	
minimum elong	15635 Sep 27 06:56	21° ≏ 09'53	0°46'22	inferior conj	15636 Sep 09 11:12	4° ≏ 11'14	1°46'31
desc. node	15635 Sep 29 18:39	18° ≏ 40'19		minimum elong	15636 Sep 09 13:30	4° ≏ 04'46	1°45'47
min. Earth dist.	15635 Sep 30 05:19	18° ≏ 14'32	0.61645 AU	min. Earth dist.	15636 Sep 11 23:32	1° ≏ 22'23	0.63840 AU
morning rise	15635 Oct 03 20:19	15° Ω 12'28			15636 Sep 13 07:04	30°R, Mp	
direct	15635 Oct 10 12:31	12° £ 54'06	27050100	morning rise	15636 Sep 15 15:29	27° m 53'58	
morning max el	15635 Oct 24 16:36	20° ♀ 50'24	27°59'09	desc. node	15636 Sep 15 16:06	27° m 52'47	
	15635 Nov 01 15:22	0°M 0°. 7		direct	15636 Sep 22 06:07	25° m 21'14	
aga mada	15635 Nov 20 13:47	0° द्र ै 7° द्रौ 04'54		mamina may al	15636 Oct 02 10:29	0° ჲ 3° ჲ 20'36	27940102
asc. node morning set	15635 Nov 24 06:14 15635 Nov 27 07:24	13° ∡ 14'55		morning max el	15636 Oct 06 02:14 15636 Oct 26 02:19	0°M	27 40 03
max. Earth dist.	15635 Dec 02 20:44	25° × 14'33	1.31436 AU	morning set	15636 Nov 10 00:40	26°M50'06	
max. Earth dist.	13033 Dec 02 20.44	23 × 07 01	1.51430 AU	asc. node	15636 Nov 10 00:40	27°ML02'13	
superior conj	15635 Dec 04 15:43	29° 尽 04'00	1°23'17	asc. node	15636 Nov 11 14:20	27 11002 13 0° ⊼ ¹	
minimum elong	15635 Dec 04 13:44	28° × 52'59	1°23'56	max. Earth dist.	15636 Nov 14 19:39	6° х 41′19	1.32388 AU
g	15635 Dec 05 01:49	0° 궁	1 23 00	man. Darm dist.	1000011011111000	0 7. 11 17	1.52500110
evening rise	15635 Dec 11 08:45	13° る 52'51		superior conj	15636 Nov 17 22:23	13° ∡ ′21'39	1°06'57
8	15635 Dec 19 07:04	0° ≈		minimum elong	15636 Nov 17 20:03	13° ∡ *08'58	1°07'24
desc. node	15635 Dec 26 16:43	12° ≈ 34'05		evening rise	15636 Nov 24 19:38	28° ₹ 21'08	
evening max el	15636 Jan 06 09:41	25° ≈ 52'43	24°55'04		15636 Nov 25 14:06	ರ°0	
-	15636 Jan 11 14:05	0°) €		desc. node	15636 Dec 12 13:40	29° る 57'19	
retrograde	15636 Jan 20 04:19	2°){ 46′24			15636 Dec 12 14:30	0° ≈	
evening set	15636 Jan 25 16:18	1°) 39′00		evening max el	15636 Dec 17 19:19	5° ≈ 53'14	23°13'23
	15636 Jan 29 01:16	30° R ≈		retrograde	15636 Dec 31 01:26	12° ≈ 27'11	
min. Earth dist.	15636 Jan 30 21:45	28° ≈ 53'23	0.56240 AU	evening set	15637 Jan 04 08:39	11° ≈ 47′03	
inferior conj	15636 Feb 02 10:08	27° ≈ 17′04	-5°02'49	min. Earth dist.	15637 Jan 11 05:37		0.54903 AU
minimum elong	15636 Feb 02 19:14	27° ≈ 02'32	5°00'07	inferior conj	15637 Jan 12 13:38	7° ≈ 47'54	
morning rise	15636 Feb 11 00:34	23° ≈ 10'49		minimum elong	15637 Jan 12 17:41	7° ≈ 42'05	5°53'56
direct	15636 Feb 13 04:42	22° ≈ 57'39		morning rise	15637 Jan 21 04:08	3°≈56'57	
asc. node	15636 Feb 20 04:26	25°≈24'29	10005100	direct	15637 Jan 23 23:10	3°≈38'23	2004240
morning max el	15636 Feb 22 20:35	27°≈39'25	19°25'20	morning max el	15637 Feb 04 05:30	9°≈04'13	20°42'48
. ,	15636 Feb 25 00:44	0°){		asc. node	15637 Feb 06 01:49	10°≈59'20	
morning set	15636 Mar 10 21:27	25° ¥ 14'53 0° Ƴ		marning sat	15637 Feb 18 06:44	0° ∺ 9° ∺ 54'17	
	15636 Mar 13 06:18	U I		morning set	15637 Feb 23 05:06	9 N 34 17	
superior conj	15636 Mar 19 00:47	11° Ƴ 27'14	0°38'58	superior conj	15637 Mar 02 16:28	25° ∺ 23'29	1°03'18
minimum elong	15636 Mar 19 02:56	11° Y '37'42	0°38'32	minimum elong	15637 Mar 02 19:02	25° H 36'38	1°03'04
desc. node	15636 Mar 23 18:06	20° Y ′26'48	· 		15637 Mar 04 23:13	0°Υ	
max. Earth dist.	15636 Mar 25 14:13	23° Y '49'56	1.38088 AU	max. Earth dist.	15637 Mar 07 22:08	5° Ƴ 48'45	1.35895 AU
evening rise	15636 Mar 29 07:02	0° 8 26'32		desc. node	15637 Mar 10 14:41	10° Ƴ 55'57	
Č	15636 Mar 29 00:58	0°8		evening rise	15637 Mar 11 19:19	13° Y ′08'54	
	15636 Apr 16 22:57	Π $^{\circ}0$			15637 Mar 21 12:25	0° 8	
evening max el	15636 May 03 15:45	20° Ⅱ 45′04	24°58'03		15637 Apr 11 21:21	$\Pi^{\circ}0$	
retrograde	15636 May 15 13:29	27° Ⅱ 41'19		evening max el	15637 Apr 16 05:20	4° Ⅱ 36'33	26°08'25
asc. node	15636 May 18 01:32	27° Ⅱ 14'57		retrograde	15637 Apr 29 00:06	11° Ⅱ 55'48	
evening set	15636 May 21 07:34	25° Ⅱ 15'52		asc. node	15637 May 04 22:45	9° Ⅱ 36'19	
min. Earth dist.	15636 May 25 17:23	20° Ⅱ 18'19	0.68296 AU	evening set	15637 May 05 04:39	9° Ⅱ 24'21	
inferior conj	15636 May 26 21:36	18° Ⅱ 45'13	2°23'05	min. Earth dist.	15637 May 09 07:57	5° Ⅱ 02'22	0.67195 AU
minimum elong	15636 May 26 19:30		2°21'44	inferior conj	15637 May 11 01:03	2° ∏ 54'44	1°45'58
morning rise	15636 Jun 01 07:44	12° ∏ 49'22		minimum elong	15637 May 10 22:57	3° Ⅱ 01'18	1°44'35
direct	15636 Jun 05 00:27	11° Ⅱ 30'56	1002720		15637 May 13 11:55	30°R8	
morning max el	15636 Jun 12 04:33	15° Ⅱ 27'37	19°27'30	morning rise	15637 May 16 18:04	27° 8 09'27	
desc. node	15636 Jun 19 18:50	24° Ⅱ 41'29		direct	15637 May 20 00:01	26° 8 09'33	

morning max el	15637 May 26 13:56	29° 8 40'23	18°37'15		15638 May 21 20:54	0°П	
morning max ci	15637 May 26 21:52	0° Ⅱ	16 37 13	desc. node	15638 May 24 12:46	4° Π 16'20	
desc. node	15637 Jun 06 15:51	14° Ⅱ 18'00		morning set	15638 May 28 18:04	11° Д 07'04	
desc. flode	15637 Jun 16 18:59	0°95		morning set	15638 Jun 09 12:23	0°95	
morning set	15637 Jun 17 00:28	0° © 21'27			13030 Juli 07 12.23	0 3	
max. Earth dist.	15637 Jul 02 09:23	24°S21'20	1.45915 AU	superior conj	15638 Jun 12 11:48	4° © 41'33	-1°57'57
max. Lattii dist.	13037 Jul 02 07.23	24 321 20	1.43)13 AO	minimum elong	15638 Jun 12 03:45		
superior conj	15637 Jul 03 01:15	25° © 23'10	-2°13'23	max. Earth dist.	15638 Jun 15 05:45	8°959'58	1.45849 AU
minimum elong	15637 Jul 02 23:08	25° © 14'55		evening rise	15638 Jun 28 14:45	29° © 43'54	1.13017110
minimum ciong	15637 Jul 06 00:09	0°Ω	2 1110	evening rise	15638 Jun 28 18:56	0°Ω	
evening rise	15637 Jul 18 16:10	19° Ω 57'44		greatest brilliancy	15638 Jul 11 05:36	18° Ω 57'07	-0.7m
evening rise	15637 Jul 24 23:57	0° m)		asc. node	15638 Jul 18 19:02	29° Ω 33'52	0.7111
greatest brilliancy	15637 Jul 25 23:57	1° Mp 34'35	-0.9m	use. Houe	15638 Jul 19 03:14	0° m)	
asc. node	15637 Jul 31 22:16	10° mp 40'31	0.5111	evening max el	15638 Jul 23 02:33	4° Mp 32'09	19°21'58
evening max el	15637 Aug 08 17:48	20° m/40'54	18°38'05	retrograde	15638 Jul 30 04:08	8° mp 27'37	19 2130
retrograde	15637 Aug 15 06:48	24° mg 12'57	10 30 03	evening set	15638 Aug 02 19:18	7° Mp 11'06	
evening set	15637 Aug 18 12:10	23° m 13'50		inferior conj	15638 Aug 08 04:51	1° mp 19'20	2°54'13
inferior conj	15637 Aug 24 04:03	17° m) 35'26	2°28'08	minimum elong	15638 Aug 08 06:23	1° m) 14'17	
minimum elong	15637 Aug 24 06:15	17° m) 28'39	2°27'22	minimum ciong	15638 Aug 09 05:00	30°RΩ	2 33 31
min. Earth dist.	15637 Aug 26 02:45	15° m) 12'17	0.65762 AU	min. Earth dist.	15638 Aug 09 13:21	29° Ω 32'47	0.67292 AU
	15637 Aug 20 02.43	13 mg 12 17 11° mg 10'34	0.03702 AU	morning rise	15638 Aug 13 16:53	24° Ω 53'11	0.07292 AU
morning rise desc. node	15637 Sep 02 13:33	9°My01'16		direct	•	$24^{\circ} \Omega 18'39$	
	•	-			15638 Aug 19 16:02	$22^{\circ}\Omega 18^{\circ}39$ $22^{\circ}\Omega 21^{\circ}04$	
direct	15637 Sep 05 07:47	8° m/32'31	26040142	desc. node	15638 Aug 20 10:58		25027100
morning max el	15637 Sep 18 13:28	16° mp 21'18	26°49'42	morning max el	15638 Sep 01 00:37	29° Ω 41'33	25°37'00
	15637 Sep 29 21:16	0∘ 亚			15638 Sep 01 07:52	0° m	
	15637 Oct 18 22:25	0°M,			15638 Sep 23 17:48	0∘ ⊽	
morning set	15637 Oct 24 07:07	9° ™ 54'06		morning set	15638 Oct 06 23:11	22° △ 19'03	
asc. node	15637 Oct 27 23:53	17° ™ 07'54		max. Earth dist.	15638 Oct 10 13:36	28° ≏ 59'34	1.35895 AU
max. Earth dist.	15637 Oct 28 09:12	17°M54'30	1.33899 AU		15638 Oct 11 02:20	0° M	
				asc. node	15638 Oct 14 20:36	7° ™ 17'59	
superior conj	15637 Nov 01 23:24	27°M20'35	0°44'35				
minimum elong	15637 Nov 01 21:19	27°M09'41	0°44'53	superior conj	15638 Oct 16 15:59	10°M54'15	0°16'27
	15637 Nov 03 05:40	0° ∡ 7		minimum elong	15638 Oct 16 15:00	10°M49'20	0°16'45
evening rise	15637 Nov 09 05:40	12° ∡ ′45′38		evening rise	15638 Oct 24 12:47	27°M01'36	
	15637 Nov 17 23:02	0°ප			15638 Oct 25 23:41	0° ∡	
desc. node	15637 Nov 29 10:44	16° る 00'59		evening max el	15638 Nov 11 10:14	26° ∡ ³34'51	20°08'26
evening max el	15637 Nov 29 08:42	15° る 56'00	21°33'07		15638 Nov 15 17:04	0°₹	
retrograde	15637 Dec 11 12:20	21° る 56'34		desc. node	15638 Nov 16 07:53	0° る 20'58	
evening set	15637 Dec 14 12:34	21° る 35'58		retrograde	15638 Nov 22 00:13	1° る 51'11	
inferior conj	15637 Dec 23 05:23	17° る 45'20	-5°52'14	evening set	15638 Nov 24 03:48	1° る 39'09	
minimum elong	15637 Dec 23 00:10	17° る 52'38	5°50'52		15638 Nov 28 20:51	30°₽ ⋌	
min. Earth dist.	15637 Dec 23 11:11	17° る 37'12	0.54405 AU	inferior conj	15638 Dec 02 23:28	27° ∡ ¹41'58	-4°50'16
morning rise	15637 Dec 31 12:18	13° る 56'39		minimum elong	15638 Dec 02 13:27	27° ∡ ¹56'56	4°46'46
direct	15638 Jan 04 07:29	13° る 25'13		min. Earth dist.	15638 Dec 04 17:30	26° ∡ ³39'10	0.54853 AU
morning max el	15638 Jan 16 23:44	19° る 33'46	22°21'19	morning rise	15638 Dec 10 22:17	23° ∡ ³36'48	
asc. node	15638 Jan 23 23:08	27° る 51'23		direct	15638 Dec 15 18:20	22° ∡ ¹46′06	
	15638 Jan 25 10:17	0° ≈		morning max el	15638 Dec 29 09:06	29° х 29'29	24°10'59
morning set	15638 Feb 07 15:56	24° ≈ 38′25			15638 Dec 29 21:45	8°0	
	15638 Feb 10 04:13	0°) €		asc. node	15639 Jan 10 20:23	15° පි 43'12	
					15639 Jan 18 15:59	0° ≈	
superior conj	15638 Feb 14 16:50	9°) 41′07	1°21'05	morning set	15639 Jan 23 03:56	9° ≈ 21'48	
minimum elong	15638 Feb 14 19:03	9° 升 52'54	1°21'13	_			
max. Earth dist.	15638 Feb 18 12:17	17° ¥ 38'15	1.33999 AU	superior conj	15639 Jan 29 23:06	24°≈12'32	1°32'28
evening rise	15638 Feb 22 22:12	26° ¥ 26'12		minimum elong	15639 Jan 30 00:30	24° ≈ 20'13	1°32'57
C	15638 Feb 24 18:54	0° Y		max. Earth dist.	15639 Feb 01 10:16	29° ≈ 32'57	1.32523 AU
desc. node	15638 Feb 25 11:18	1° Y 16'58			15639 Feb 01 15:19	0°) €	
	15638 Mar 14 21:16	0°B		evening rise	15639 Feb 06 12:22	10°) 10′01	
evening max el	15638 Mar 29 19:11	18° 8 17'00	27°02'13	desc. node	15639 Feb 12 07:56	21°) 25'23	
retrograde	15638 Apr 12 04:50	25° 8 46'41	-		15639 Feb 17 03:45	0°Υ	
evening set	15638 Apr 18 18:03	23° 8 15'05			15639 Mar 10 17:51	0°8	
asc. node	15638 Apr 21 20:04	20° 8 22'01		evening max el	15639 Mar 12 07:58	1° 8 34'59	27°31'59
min. Earth dist.	15638 Apr 22 16:20	19° 8 26'38	0.65673 AU	retrograde	15639 Mar 26 02:39	9° 8 05'15	_, 510)
inferior conj	15638 Apr 24 22:04	16° 8 52'54	0°56'36	evening set	15639 Apr 01 21:31	6° 8 40'03	
minimum elong	15638 Apr 24 20:39	16° 8 56'59	0°55'31	min. Earth dist.	15639 Apr 05 16:30	3° 8 21'41	0.63791 AU
morning rise	15638 May 01 00:45	10 8 30 39	0 00 01	inferior conj	15639 Apr 08 09:52	0° 8 32'58	
direct	15638 May 01 00:43	10° 8 36'14		minimum elong	15639 Apr 08 09:32 15639 Apr 08 10:04	0° 8 32'28	0°06'15
morning max el	15638 May 10 04:35	13° 8 53'39	18°03'48	transit middle	15639 Apr 08 10:04 15639 Apr 08 10:04	0° 8 32'28	0°06'15
morning max ci	15050 Way 10 04.55	15 03339	10 03 70	transit iniddic	15057 Apr 00 10.04	U U 32 20	0 0012

transit basin	15620 Apr 00 07:10	00820150		minimum alana	15640 Mar 21 12:04	13° Ƴ 39'46	1920/46
transit begin transit end	15639 Apr 08 07:10 15639 Apr 08 12:57	0° と 39'58 0° と 24'59		minimum elong asc. node	15640 Mar 21 12:04 15640 Mar 25 14:45	13° Y 3946 10° Y 16'58	1°20'46
asc. node	15639 Apr 08 17:24	0° 8 13'29		morning rise	15640 Mar 28 14:54	8° Υ 46'15	
asc. nouc	15639 Apr 08 22:39	30°RΥ		direct	15640 Mar 30 19:25	8° Υ 25'17	
morning rise	15639 Apr 15 00:58	25° Y 14'57		morning max el	15640 Apr 06 15:10	11° Υ 51'21	17°49'23
direct	15639 Apr 17 12:36	24° Υ 44'16		morning max or	15640 Apr 18 20:54	0°8	17 47 23
morning max el	15639 Apr 23 22:01		17°47'40	morning set	15640 Apr 22 08:57	6° 8 13'22	
morning man vi	15639 Apr 25 18:29	0°8	1, 1, 10	desc. node	15640 Apr 27 06:20	14° 8 55'10	
morning set	15639 May 10 14:34	23° 8 09'33		dese. node	100.01.pr =/ 00.20	1. 000 10	
desc. node	15639 May 11 09:35	24° 8 30'22		superior conj	15640 May 03 14:06	25° 8 52'16	-0°49'38
	15639 May 14 15:29	0°II		minimum elong	15640 May 03 09:32	25° 8 32'51	
	,			Č	15640 May 06 00:55	0°II	
superior conj	15639 May 23 13:23	14° Ⅱ 44'29	-1°27'17	max. Earth dist.	15640 May 10 17:13	7° Ⅱ 42'06	1.43593 AU
minimum elong	15639 May 23 05:20	14° ∏ 11'51	1°27'09	evening rise	15640 May 17 17:33	18° Ⅱ 50'41	
max. Earth dist.	15639 May 29 01:17	23° Ⅲ 32'37	1.45048 AU		15640 May 25 00:42	0ಂಣ	
	15639 Jun 02 03:55	0°€			15640 Jun 15 22:21	$0^{\circ}\Omega$	
evening rise	15639 Jun 08 01:39	9° © 07'12		evening max el	15640 Jun 18 02:21	2° Ω 17'54	21°32'15
	15639 Jun 22 00:38	$0^{\circ}\Omega$		asc. node	15640 Jun 21 12:44	5° Ω 18'10	
asc. node	15639 Jul 05 15:50	17° Ω 50′22		retrograde	15640 Jun 27 01:46	7° £ 31′23	
evening max el	15639 Jul 06 05:26	18° Ω 24'59	20°20'58	evening set	15640 Jul 01 14:15	5° Ω 40'01	
retrograde	15639 Jul 14 03:05	22° Ω 55′28			15640 Jul 06 09:54	30° ₹ 5	
evening set	15639 Jul 18 04:38	21° Ω 21'11		inferior conj	15640 Jul 06 19:51	29° © 25'21	3°08'25
inferior conj	15639 Jul 23 10:52	15° Ω 17'12	3°07'06	minimum elong	15640 Jul 06 19:30	29° 5 26'34	3°07'36
minimum elong	15639 Jul 23 11:29	15° Ω 15′05	3°06'24	min. Earth dist.	15640 Jul 07 01:03	29° 5 07'12	0.68980 AU
min. Earth dist.	15639 Jul 24 05:27	14° Ω 13'35	0.68373 AU	morning rise	15640 Jul 12 00:32	23° © 07'36	
morning rise	15639 Jul 28 18:01	8° Ω 53'57		direct	15640 Jul 17 00:03	20° © 59'14	
direct	15639 Aug 03 05:46	6° Ω 30′00		desc. node	15640 Jul 24 05:39	24° © 21'30	
desc. node	15639 Aug 07 08:21	7° Ω 35'52		morning max el	15640 Jul 26 23:21	26°953'00	22°41'58
morning max el	15639 Aug 14 11:26	13° Ω 13'05	24°11'18		15640 Jul 29 20:51	0° N	
	15639 Aug 28 01:33	0° Mp			15640 Aug 20 14:52	0° m)	
	15639 Sep 16 13:31	0° ⊽		morning set	15640 Aug 29 19:25	14° Mp 31'32	1 40605 411
morning set	15639 Sep 18 20:35	3° £ 54'20	1 20212 ATT	max. Earth dist.	15640 Sep 03 12:26	22° m/21'49	1.40605 AU
max. Earth dist.	15639 Sep 22 12:42	10° ≏ 20'22	1.38213 AU		15640 Sep 07 22:35	0∘ ರ	
superior coni	15639 Sep 29 20:36	23° £ 53'08	-0°16'42	superior coni	15640 Sep 11 09:11	6° £ 08'13	-0°52'54
superior conj minimum elong	15639 Sep 29 20:36 15639 Sep 29 21:44	23° ♀ 53'08 23° ♀ 58'34		superior conj minimum elong	15640 Sep 11 09:11 15640 Sep 11 13:19	6° £ 08'13 6° £ 26'55	
superior conj minimum elong asc. node	15639 Sep 29 20:36 15639 Sep 29 21:44 15639 Oct 01 17:15			superior conj minimum elong asc. node	15640 Sep 11 09:11 15640 Sep 11 13:19 15640 Sep 17 13:52		
minimum elong	15639 Sep 29 21:44	23° ≏ 58'34		minimum elong asc. node	15640 Sep 11 13:19	6° ≏ 26'55	
minimum elong	15639 Sep 29 21:44 15639 Oct 01 17:15	23° £ 58'34 27° £ 28'03		minimum elong	15640 Sep 11 13:19 15640 Sep 17 13:52	6° £ 26'55 17° £ 34'50	
minimum elong asc. node	15639 Sep 29 21:44 15639 Oct 01 17:15 15639 Oct 03 00:27	23° £ 58'34 27° £ 28'03 0° M		minimum elong asc. node	15640 Sep 11 13:19 15640 Sep 17 13:52 15640 Sep 21 07:29	6° £ 26'55 17° £ 34'50 24° £ 38'23	
minimum elong asc. node	15639 Sep 29 21:44 15639 Oct 01 17:15 15639 Oct 03 00:27 15639 Oct 08 14:25	23°£58'34 27°£28'03 0°M 11°M01'46		minimum elong asc. node evening rise	15640 Sep 11 13:19 15640 Sep 17 13:52 15640 Sep 21 07:29 15640 Sep 24 03:46	6° £ 26'55 17° £ 34'50 24° £ 38'23 0° ™	0°52'13
minimum elong asc. node evening rise	15639 Sep 29 21:44 15639 Oct 01 17:15 15639 Oct 03 00:27 15639 Oct 08 14:25 15639 Oct 18 22:05	23°£58'34 27°£28'03 0°M 11°M01'46 0°×7	0°16'14	minimum elong asc. node evening rise evening max el	15640 Sep 11 13:19 15640 Sep 17 13:52 15640 Sep 21 07:29 15640 Sep 24 03:46 15640 Oct 07 05:38	6° £ 26'55 17° £ 34'50 24° £ 38'23 0° M 20° M 17'17	0°52'13
minimum elong asc. node evening rise evening max el	15639 Sep 29 21:44 15639 Oct 01 17:15 15639 Oct 03 00:27 15639 Oct 08 14:25 15639 Oct 18 22:05 15639 Oct 25 02:04	23° ♀ 58'34 27° ♀ 28'03 0° ™ 11° ™ .01'46 0° ⋄ 7 8° ⋄ 7'02'44	0°16'14	minimum elong asc. node evening rise evening max el retrograde	15640 Sep 11 13:19 15640 Sep 17 13:52 15640 Sep 21 07:29 15640 Sep 24 03:46 15640 Oct 07 05:38 15640 Oct 14 22:33	6° Ω 26'55 17° Ω 34'50 24° Ω 38'23 0° M 20° M 17'17 24° M 12'06	0°52'13
minimum elong asc. node evening rise evening max el retrograde	15639 Sep 29 21:44 15639 Oct 01 17:15 15639 Oct 03 00:27 15639 Oct 08 14:25 15639 Oct 18 22:05 15639 Oct 25 02:04 15639 Nov 03 01:53	23° ♀ 58'34 27° ♀ 28'03 0° ™. 11° ™ .01'46 0° ⋄ 7 8° ⋄ 702'44 12° ⋄ 734'11	0°16'14	minimum elong asc. node evening rise evening max el retrograde evening set	15640 Sep 11 13:19 15640 Sep 17 13:52 15640 Sep 21 07:29 15640 Sep 24 03:46 15640 Oct 07 05:38 15640 Oct 14 22:33 15640 Oct 16 22:34	6° \(\Omega \) 26'55 17° \(\Omega \) 34'50 24° \(\Omega \) 38'23 0° \(\Omega \) 20° \(\Omega \) 17'17 24° \(\Omega \) 12'06 23° \(\Omega \) 56'59	0°52'13 18°24'41
minimum elong asc. node evening rise evening max el retrograde desc. node	15639 Sep 29 21:44 15639 Oct 01 17:15 15639 Oct 03 00:27 15639 Oct 08 14:25 15639 Oct 18 22:05 15639 Oct 25 02:04 15639 Nov 03 01:53 15639 Nov 03 05:07	23° \Omega 58'34 27° \Omega 28'03 0° \mathbb{M} . 11° \mathbb{M} .01'46 0° \structure 8° \structure 702'44 12° \structure 734'11 12° \structure 734'08	0°16'14 19°05'29	minimum elong asc. node evening rise evening max el retrograde evening set desc. node	15640 Sep 11 13:19 15640 Sep 17 13:52 15640 Sep 21 07:29 15640 Sep 24 03:46 15640 Oct 07 05:38 15640 Oct 14 22:33 15640 Oct 16 22:34 15640 Oct 20 02:24	6° \(\Omega \) 26'55 17° \(\Omega \) 34'50 24° \(\Omega \) 38'23 0° \(\Dmathrm{\text{\text{\$\llot\$}}}\) 20° \(\Dmathrm{\text{\$\llot\$}}\) 12'06 23° \(\Dmathrm{\text{\$\llot\$}}\) 56'59 22° \(\Dmathrm{\text{\$\llot\$}}\) 37'36 19° \(\Dmathrm{\text{\$\llot\$}}\) 22'10	0°52'13 18°24'41
minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong	15639 Sep 29 21:44 15639 Oct 01 17:15 15639 Oct 03 00:27 15639 Oct 08 14:25 15639 Oct 18 22:05 15639 Oct 25 02:04 15639 Nov 03 01:53 15639 Nov 04 23:01 15639 Nov 13 08:59 15639 Nov 13 01:05	23° △ 58'34 27° △ 28'03 0° M . 11° M .01'46 0° √ 8° √ 02'44 12° √ 34'11 12° √ 34'08 12° √ 23'08	0°16'14 19°05'29 -3°12'07 3°08'26	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist.	15640 Sep 11 13:19 15640 Sep 17 13:52 15640 Sep 21 07:29 15640 Sep 24 03:46 15640 Oct 07 05:38 15640 Oct 14 22:33 15640 Oct 16 22:34 15640 Oct 20 02:24 15640 Oct 24 15:56	6° \(\Omega \) 26'55 17° \(\Omega \) 34'50 24° \(\Omega \) 38'23 0° \(\Dmathrm{\text{IL}}\) 20° \(\Dmathrm{\text{IL}}\) 12'06 23° \(\Dmathrm{\text{IL}}\) 56'59 22° \(\Dmathrm{\text{IL}}\) 37'36 19° \(\Dmathrm{\text{IL}}\) 22'10 19° \(\Dmathrm{\text{IL}}\) 28'59 16° \(\Dmathrm{\text{IL}}\) 47'27	0°52'13 18°24'41 -1°27'59
minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist.	15639 Sep 29 21:44 15639 Oct 01 17:15 15639 Oct 03 00:27 15639 Oct 08 14:25 15639 Oct 18 22:05 15639 Oct 25 02:04 15639 Nov 03 01:53 15639 Nov 03 05:07 15639 Nov 04 23:01 15639 Nov 13 08:59 15639 Nov 13 01:05 15639 Nov 16 03:59	23° ♀58'34 27° ♀28'03 0° M. 11° M.01'46 0° ♂ 8° ♂02'44 12° ♂34'11 12° ♂34'08 12° ♂23'08 8° ♂09'03 8° ♂22'34 6° ♂14'43	0°16'14 19°05'29 -3°12'07	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	15640 Sep 11 13:19 15640 Sep 17 13:52 15640 Sep 21 07:29 15640 Sep 24 03:46 15640 Oct 07 05:38 15640 Oct 14 22:33 15640 Oct 16 22:34 15640 Oct 20 02:24 15640 Oct 24 15:56 15640 Oct 24 12:31 15640 Oct 27 21:41 15640 Oct 31 22:59	6° \(\Omega 26'55\) 17° \(\Omega 34'50\) 24° \(\Omega 38'23\) 0° \(\mu \) 20° \(\mu \) 12'06 23° \(\mu \) 56'59 22° \(\mu \) 37'36 19° \(\mu \) 19° \(\mu \) 19° \(\mu \) 16° \(\mu \) 14° \(\mu \)	0°52'13 18°24'41 -1°27'59 1°26'00
minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise	15639 Sep 29 21:44 15639 Oct 01 17:15 15639 Oct 03 00:27 15639 Oct 08 14:25 15639 Oct 18 22:05 15639 Oct 25 02:04 15639 Nov 03 01:53 15639 Nov 04 23:01 15639 Nov 13 08:59 15639 Nov 13 01:05 15639 Nov 16 03:59 15639 Nov 16 03:59 15639 Nov 21 00:32	23° ♀58'34 27° ♀28'03 0° M. 11° M.01'46 0° ♂ 8° ♂02'44 12° ♂34'11 12° ♂34'08 12° ♂23'08 8° ♂09'03 8° ♂22'34 6° ♂14'43 3° ♂30'55	0°16'14 19°05'29 -3°12'07 3°08'26	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	15640 Sep 11 13:19 15640 Sep 17 13:52 15640 Sep 21 07:29 15640 Sep 24 03:46 15640 Oct 07 05:38 15640 Oct 14 22:33 15640 Oct 16 22:34 15640 Oct 20 02:24 15640 Oct 24 15:56 15640 Oct 27 21:41 15640 Oct 31 22:59 15640 Nov 07 05:40	6° \(\Omega \) 26'55 17° \(\Omega \) 34'50 24° \(\Omega \) 38'23 0° \(\mu \) 20° \(\mu \) 12'06 23° \(\mu \) 56'59 22° \(\mu \) 37'36 19° \(\mu \) 22'10 19° \(\mu \) 28'59 16° \(\mu \) 47'27 14° \(\mu \) 06'46 12° \(\mu \) 24'48	0°52'13 18°24'41 -1°27'59 1°26'00 0.58075 AU
minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	15639 Sep 29 21:44 15639 Oct 01 17:15 15639 Oct 03 00:27 15639 Oct 08 14:25 15639 Oct 18 22:05 15639 Oct 25 02:04 15639 Nov 03 01:53 15639 Nov 04 23:01 15639 Nov 13 08:59 15639 Nov 14 03:59 15639 Nov 16 03:59 15639 Nov 16 03:59 15639 Nov 21 00:32 15639 Nov 26 16:44	23° ♀58'34 27° ♀28'03 0° M. 11° M.01'46 0° ♂ 8° ♂02'44 12° ♂34'08 12° ♂34'08 12° ♂23'08 8° ♂09'03 8° ♂22'34 6° ♂14'43 3° ♂30'55 2° ♂16'03	0°16'14 19°05'29 -3°12'07 3°08'26 0.56153 AU	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	15640 Sep 11 13:19 15640 Sep 17 13:52 15640 Sep 21 07:29 15640 Sep 24 03:46 15640 Oct 07 05:38 15640 Oct 14 22:33 15640 Oct 16 22:34 15640 Oct 20 02:24 15640 Oct 24 15:56 15640 Oct 27 21:41 15640 Oct 31 22:59 15640 Nov 07 05:40 15640 Nov 21 12:33	6° \(\Omega 26'55\) 17° \(\Omega 34'50\) 24° \(\Omega 38'23\) 0° \(\mu \) 20° \(\mu \) 12'06 23° \(\mu \) 56'59 22° \(\mu \) 19° \(\mu \) 22'10 19° \(\mu \) 16° \(\mu \) 47'27 14° \(\mu \) 06'46 12° \(\mu \) 24'48 19° \(\mu \) 59'30	0°52'13 18°24'41 -1°27'59 1°26'00
minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise	15639 Sep 29 21:44 15639 Oct 01 17:15 15639 Oct 03 00:27 15639 Oct 08 14:25 15639 Oct 18 22:05 15639 Oct 25 02:04 15639 Nov 03 01:53 15639 Nov 04 23:01 15639 Nov 13 08:59 15639 Nov 13 01:05 15639 Nov 16 03:59 15639 Nov 16 03:59 15639 Nov 21 00:32 15639 Nov 26 16:44 15639 Dec 10 19:19	23° ♀58'34 27° ♀28'03 0° M. 11° M.01'46 0° ♂ 8° ♂02'44 12° ♂34'11 12° ♂34'08 12° ♂23'08 8° ♂09'03 8° ♂22'34 6° ♂14'43 3° ♂30'55 2° ♂16'03 9° ♂27'44	0°16'14 19°05'29 -3°12'07 3°08'26	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	15640 Sep 11 13:19 15640 Sep 17 13:52 15640 Sep 21 07:29 15640 Sep 24 03:46 15640 Oct 07 05:38 15640 Oct 14 22:33 15640 Oct 16 22:34 15640 Oct 20 02:24 15640 Oct 24 15:56 15640 Oct 27 21:41 15640 Oct 31 22:59 15640 Nov 07 05:40 15640 Nov 21 12:33 15640 Nov 30 02:40	6° № 26'55 17° № 34'50 24° № 38'23 0° M. 20° M.17'17 24° M.12'06 23° M.56'59 22° M.37'36 19° M.22'10 19° M.28'59 16° M.47'27 14° M.06'46 12° M.24'48 19° M.59'30 0° 🗷	0°52'13 18°24'41 -1°27'59 1°26'00 0.58075 AU
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minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	15639 Sep 29 21:44 15639 Oct 01 17:15 15639 Oct 03 00:27 15639 Oct 08 14:25 15639 Oct 18 22:05 15639 Oct 25 02:04 15639 Nov 03 01:53 15639 Nov 04 23:01 15639 Nov 13 01:05 15639 Nov 13 01:05 15639 Nov 16 03:59 15639 Nov 26 16:44 15639 Nov 26 16:44 15639 Dec 10 19:19 15639 Dec 26 05:39 15639 Dec 28 17:32 15640 Jan 07 15:15 15640 Jan 10 09:22 15640 Jan 14 08:55 15640 Jan 15 14:29 15640 Jan 21 10:55 15640 Jan 21 10:55 15640 Jan 21 06:45 15640 Jan 24 06:45 15640 Jan 30 04:37	23° \$\sigma 58'34 27° \$\sigma 28'03 0° \$\mathbb{n}\$ 11° \$\mathbb{n}\$.01'46 0° \$\nall 8\circ \nall 34'11 12° \$\nall 34'11 12° \$\nall 34'08 12° \$\nall 23'08 8° \$\nall 22'34 6° \$\nall 14'43 3° \$\nall 30'55 2° \$\nall 16'03 9° \$\nall 27'44 0° \$\nall 4\circ \nall 19'33 23° \$\nall 59'00 0° \$\infty\$ 8° \$\infty 50'51 8° \$\infty 50'57 11° \$\infty 34'50 24° \$\infty 13'01	0°16'14 19°05'29 -3°12'07 3°08'26 0.56153 AU 25°54'05 1°37'40 1°38'23	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	15640 Sep 11 13:19 15640 Sep 17 13:52 15640 Sep 21 07:29 15640 Sep 24 03:46 15640 Oct 07 05:38 15640 Oct 14 22:33 15640 Oct 16 22:34 15640 Oct 20 02:24 15640 Oct 24 15:56 15640 Oct 24 12:31 15640 Oct 31 22:59 15640 Nov 07 05:40 15640 Nov 21 12:33 15640 Nov 21 12:33 15640 Nov 30 02:40 15640 Dec 14 14:36 15640 Dec 17 22:48 15640 Dec 22 00:08 15640 Dec 28 19:37 15640 Dec 28 19:37 15640 Dec 31 18:05 15641 Jan 04 15:28 15641 Jan 15 16:19 15641 Jan 16 01:21	6° £26'55 17° £34'50 24° £38'23 0° M. 20° M.17'17 24° M.12'06 23° M.56'59 22° M.37'36 19° M.22'10 19° M.28'59 16° M.47'27 14° M.06'46 12° M.24'48 19° M.59'30 0° ♂ 23° ♂28'56 0° ♂ 8° ♂25'20 23° ♂30'26 23° ♂30'26 23° ♂39'29 0° ≈ 8° ≈29'29 0° 升 0° 升	0°52'13 18°24'41 -1°27'59 1°26'00 0.58075 AU 27°12'01 1°36'48 1°37'37 1.31058 AU
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minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	15639 Sep 29 21:44 15639 Oct 01 17:15 15639 Oct 03 00:27 15639 Oct 08 14:25 15639 Oct 18 22:05 15639 Oct 25 02:04 15639 Nov 03 01:53 15639 Nov 04 23:01 15639 Nov 13 01:05 15639 Nov 13 01:05 15639 Nov 16 03:59 15639 Nov 26 16:44 15639 Nov 26 16:44 15639 Dec 10 19:19 15639 Dec 26 05:39 15639 Dec 28 17:32 15640 Jan 07 15:15 15640 Jan 10 09:22 15640 Jan 14 08:55 15640 Jan 15 14:29 15640 Jan 21 10:55 15640 Jan 21 10:55 15640 Jan 21 06:45 15640 Jan 24 06:45 15640 Jan 30 04:37	23° \$\cdot 58'34\ 27° \$\cdot 28'03\ 0° \$\mathbb{\text{II}}\cdot \mathbb{\text{II}}\cdot \text	0°16'14 19°05'29 -3°12'07 3°08'26 0.56153 AU 25°54'05 1°37'40 1°38'23 1.31530 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.	15640 Sep 11 13:19 15640 Sep 17 13:52 15640 Sep 21 07:29 15640 Sep 24 03:46 15640 Oct 07 05:38 15640 Oct 14 22:33 15640 Oct 16 22:34 15640 Oct 20 02:24 15640 Oct 24 15:56 15640 Oct 24 12:31 15640 Oct 31 22:59 15640 Nov 07 05:40 15640 Nov 21 12:33 15640 Nov 21 12:33 15640 Nov 21 12:33 15640 Dec 14 14:36 15640 Dec 17 22:48 15640 Dec 22 00:08 15640 Dec 28 19:37 15640 Dec 28 19:37 15640 Dec 31 18:05 15641 Jan 04 15:28 15641 Jan 15 16:19 15641 Jan 16 01:21 15641 Feb 03 20:58	6° \$\overline{a}\)26'55 17° \$\overline{a}\)34'50 24° \$\overline{a}\)38'23 0° \$\overline{m}\)20° \$\overline{m}\)17'17 24° \$\overline{m}\)12'06 23° \$\overline{m}\)37'36 19° \$\overline{m}\)22'10 19° \$\overline{m}\)22'10 19° \$\overline{m}\)23'59 16° \$\overline{m}\)47'27 14° \$\overline{m}\)06'46 12° \$\overline{m}\)24'48 19° \$\overline{m}\)24'48 19° \$\overline{m}\)24'48 19° \$\overline{m}\)23' \$\overline{a}\)28'56 0° \$\overline{a}\)8' \$\overline{2}\)25'20 23° \$\overline{3}\)30'26 23° \$\overline{3}\)39'29 0° \$\overline{m}\)8' \$\overline{a}\)29'29 0° \$\overline{m}\)8' \$\overline{a}\)9'13 26° \$\overline{m}\)39'13 26° \$\overline{m}\)12'17	0°52'13 18°24'41 -1°27'59 1°26'00 0.58075 AU 27°12'01 1°36'48 1°37'37 1.31058 AU
minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	15639 Sep 29 21:44 15639 Oct 01 17:15 15639 Oct 03 00:27 15639 Oct 08 14:25 15639 Oct 18 22:05 15639 Oct 25 02:04 15639 Nov 03 01:53 15639 Nov 04 23:01 15639 Nov 13 01:05 15639 Nov 13 01:05 15639 Nov 16 03:59 15639 Nov 26 16:44 15639 Dec 10 19:19 15639 Dec 26 05:39 15639 Dec 28 17:32 15640 Jan 10 09:22 15640 Jan 14 08:55 15640 Jan 14 09:18 15640 Jan 15 14:29 15640 Jan 24 06:45 15640 Jan 30 04:37 15640 Feb 10 19:45 15640 Feb 10 19:45 15640 Feb 10 19:45	23° \$\cdot 58'34\ 27° \$\cdot 28'03\ 0° \$\mathbb{\text{II}}\cdot \mathbb{\text{II}}\cdot \text	0°16'14 19°05'29 -3°12'07 3°08'26 0.56153 AU 25°54'05 1°37'40 1°38'23 1.31530 AU	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	15640 Sep 11 13:19 15640 Sep 17 13:52 15640 Sep 21 07:29 15640 Sep 24 03:46 15640 Oct 07 05:38 15640 Oct 14 22:33 15640 Oct 16 22:34 15640 Oct 20 02:24 15640 Oct 24 15:56 15640 Oct 24 12:31 15640 Oct 27 21:41 15640 Oct 31 22:59 15640 Nov 07 05:40 15640 Nov 07 05:40 15640 Nov 21 12:33 15640 Nov 30 02:40 15640 Dec 14 14:36 15640 Dec 17 22:48 15640 Dec 22 00:08 15640 Dec 28 19:37 15640 Dec 28 19:37 15640 Dec 28 19:37 15640 Dec 28 21:55 15640 Dec 31 18:05 15641 Jan 04 15:28 15641 Jan 15 16:19 15641 Jan 16 01:21 15641 Feb 03 20:58 15641 Feb 08 11:18	6° \$\Pi26'55\\ 17° \$\Pi34'50\\ 24° \$\Pi34'50\\ 20° \$\mathbb{M}.17'17\\ 24° \$\mathbb{M}.12'06\\ 23° \$\mathbb{M}.56'59\\ 22° \$\mathbb{M}.37'36\\ 19° \$\mathbb{M}.22'10\\ 19° \$\mathbb{M}.22'10\\ 19° \$\mathbb{M}.22'10\\ 19° \$\mathbb{M}.22'48\\ 19° \$\mathbb{M}.24'48\\ 19° \$\mathbb{M}.24'48\\ 19° \$\mathbb{M}.24'48\\ 19° \$\mathbb{M}.24'48\\ 19° \$\mathbb{M}.25'30\\ 0° \$\mathbb{A}\\ 23° \$\mathbb{A}.28'56\\ 0° \$\mathbb{A}\\ 23° \$\mathbb{A}.25'20\\ 23° \$\mathbb{A}.30'26\\ 23° \$\mathbb{A}.39'29\\ 0° \$\mathbb{M}\\ 0° \$\mathbb{M}.39'13\\ 26° \$\mathbb{M}.12'17\\ 0° \$\mathbb{Y}\\ 0° \$\mathbb{M}.39'13\\ 26° \$\mathbb{M}.12'17\\ 0° \$\mathbb{M}\\ 0° \$\mathbb{M}.39'13\\ 26° \$\mathbb{M}.12'17\\ 0° \$\mathbb{M}\\ 0° \$\mathbb{M}.39'13\\ 26° \$\mathbb{M}.12'17\\ 0° \$\mathbb{M}\\ 0° \$\mathbb{M}.39'13\\ 0° \$\mathbb{M}.39'13	0°52'13 18°24'41 -1°27'59 1°26'00 0.58075 AU 27°12'01 1°36'48 1°37'37 1.31058 AU
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minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	15639 Sep 29 21:44 15639 Oct 03 00:27 15639 Oct 08 14:25 15639 Oct 18 22:05 15639 Oct 25 02:04 15639 Nov 03 01:53 15639 Nov 04 23:01 15639 Nov 13 08:59 15639 Nov 13 01:05 15639 Nov 16 03:59 15639 Nov 21 00:32 15639 Nov 26 16:44 15639 Dec 10 19:19 15639 Dec 26 05:39 15639 Dec 28 17:32 15640 Jan 10 09:22 15640 Jan 14 08:55 15640 Jan 14 08:55 15640 Jan 14 09:18 15640 Jan 15 14:29 15640 Jan 21 10:55 15640 Jan 21 10:55 15640 Jan 30 04:37 15640 Feb 10 19:45 15640 Feb 10 19:45 15640 Mar 07 16:38 15640 Mar 07 16:38 15640 Mar 07 16:38	23° ₽58'34 27° ₽28'03 0° IL 11° IL01'46 0° ₰ 8° ₰02'44 12° ₰34'11 12° ₰34'08 12° ₰23'08 8° ₰09'03 8° ₰22'34 6° ₰14'43 3° ₰30'55 2° ₰16'03 9° ₰27'44 0° ♂ 4° ♂ 19'33 23° ♂ 59'00 0° ≈ 8° ≈ 50'51 8° ≈ 52'57 11° ≈ 34'50 24° ≈ 13'01 0° ₭ 11° ₭ 15'18 0° ϒ 14° ϒ 17'11 21° ϒ 41'54 19° ϒ 30'26	0°16'14 19°05'29 -3°12'07 3°08'26 0.56153 AU 25°54'05 1°37'40 1°38'23 1.31530 AU 27°31'23 0.61644 AU	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	15640 Sep 11 13:19 15640 Sep 17 13:52 15640 Sep 21 07:29 15640 Sep 24 03:46 15640 Oct 07 05:38 15640 Oct 14 22:33 15640 Oct 16 22:34 15640 Oct 20 02:24 15640 Oct 24 15:56 15640 Oct 24 12:31 15640 Oct 27 21:41 15640 Oct 31 22:59 15640 Nov 07 05:40 15640 Nov 21 12:33 15640 Nov 30 02:40 15640 Dec 14 14:36 15640 Dec 17 22:48 15640 Dec 22 00:08 15640 Dec 28 19:37 15640 Dec 28 19:37 15640 Dec 28 21:55 15640 Dec 28 21:55 15640 Dec 31 18:05 15641 Jan 16 01:21 15641 Feb 03 20:58 15641 Feb 08 11:18 15641 Feb 17 21:32 15641 Feb 17 21:32	6° \$\Pi26'55\$ 17° \$\Pi34'50\$ 24° \$\Pi34'50\$ 20° \$\mathbb{\text{m}}.17'17 24° \$\mathbb{\text{m}}.12'06\$ 23° \$\mathbb{\text{m}}.22'10\$ 19° \$\mathbb{\text{m}}.22'10\$ 19° \$\mathbb{\text{m}}.22'10\$ 19° \$\mathbb{\text{m}}.22'10\$ 19° \$\mathbb{\text{m}}.22'10\$ 19° \$\mathbb{\text{m}}.24'48\$ 19° \$\mathbb{\text{m}}.24'48\$ 19° \$\mathbb{\text{m}}.24'48\$ 19° \$\mathbb{\text{m}}.24'48\$ 19° \$\mathbb{\text{m}}.24'48\$ 19° \$\mathbb{\text{m}}.25'30\$ 0° \$\mathbb{\text{m}}\$ 23° \$\mathbb{\text{m}}.23'52'0\$ 23° \$\mathbb{\text{m}}.30'26\$ 23° \$\mathbb{\text{m}}.30'26\$ 23° \$\mathbb{\text{m}}.39'29\$ 0° \$\mathbb{\text{m}}\$ 0° \$\mathbb{\text{m}}.39'13\$ 26° \$\mathbb{\text{m}}.12'17\$ 0° \$\mathbb{\text{m}}\$ 3° \$\mathbb{\text{m}}.27'11\$ 1° \$\mathbb{\text{m}}.36'54\$	0°52'13 18°24'41 -1°27'59 1°26'00 0.58075 AU 27°12'01 1°36'48 1°37'37 1.31058 AU

inferior conj	15641 Mar 03 16:17	26° ¥ 23'01	-2°48'25		15642 Jan 10 04:55	0° \	
minimum elong	15641 Mar 03 22:39	26°\(\frac{7}{2}\)301		evening max el	15642 Jan 16 16:42	7° ∺ 15'25	25°47'19
morning rise	15641 Mar 11 13:20	21°\dagger43'09	2 13 32	retrograde	15642 Jan 30 15:05	14°) 17'19	23 17 19
asc. node	15641 Mar 12 12:09	21° X 32'25		evening set	15642 Feb 05 15:05	12°) 53′52	
direct	15641 Mar 13 13:12	21°) 28'18		min. Earth dist.	15642 Feb 10 05:42		0.57286 AU
morning max el	15641 Mar 21 04:26	25° ¥ 15'54	18°09'59	inferior conj	15642 Feb 13 03:48	8°) 13'47	
5 5	15641 Mar 25 03:35	0° Υ		minimum elong	15642 Feb 13 12:54	7° ¥ 58'01	
morning set	15641 Apr 05 19:15	20° Y ′00′02		morning rise	15642 Feb 21 13:42	3° ¥ 55'15	
S	15641 Apr 11 03:49	0°B		direct	15642 Feb 23 13:54	3°) 42'43	
desc. node	15641 Apr 14 03:01	5° 8 25'50		asc. node	15642 Feb 27 09:32	4°) € 30'44	
	r			morning max el	15642 Mar 04 09:48		18°51'15
superior conj	15641 Apr 15 13:35	8° 8 01'33	-0°11'51	C	15642 Mar 18 12:01	0° Y	
minimum elong	15641 Apr 15 12:37	7° 8 57'11	0°12'08	morning set	15642 Mar 20 16:37	4° Υ 15'32	
behind sun begin	15641 Apr 15 07:37	7° 8 34'48					
behind sun end	15641 Apr 15 17:36	8° 8 19'32		superior conj	15642 Mar 29 08:05	21° Y ′01'36	0°22'02
max. Earth dist.	15641 Apr 23 04:07	21° 8 14'05	1.41644 AU	minimum elong	15642 Mar 29 09:28	21° Y 08'13	0°21'34
evening rise	15641 Apr 28 02:33	29° 8 22'16		desc. node	15642 Mar 31 23:40	25° Ƴ 58'49	
	15641 Apr 28 11:54	$\Pi^{\circ}0$			15642 Apr 03 04:29	0°8	
	15641 May 18 13:24	0°99		max. Earth dist.	15642 Apr 05 11:12	4° 8 04'19	1.39416 AU
evening max el	15641 May 31 18:43	16°511'12	22°51'35	evening rise	15642 Apr 09 08:50	10° 8 49'37	
asc. node	15641 Jun 08 09:43	21° 5 641'14			15642 Apr 21 08:02	$\Pi^{\circ}0$	
retrograde	15641 Jun 10 22:36	22° © 09'15			15642 May 14 06:23	0ංම	
evening set	15641 Jun 15 22:28	20°902'32		evening max el	15642 May 14 08:47	0° © 05'59	24°13'00
inferior conj	15641 Jun 21 05:47	13° © 39'17	2°59'04	retrograde	15642 May 25 16:11	6°543'13	
minimum elong	15641 Jun 21 04:33	13° © 43'32	2°58'03	asc. node	15642 May 26 06:48	6° 5 641'38	
min. Earth dist.	15641 Jun 20 21:59	14° 5 06'24	0.69098 AU	evening set	15642 May 31 03:41	4° © 23'47	
morning rise	15641 Jun 26 10:32	7° © 28'52		•	15642 Jun 04 01:33	30°RⅡ	
direct	15641 Jun 30 21:47	5° © 39'03		min. Earth dist.	15642 Jun 04 18:05	29° Ⅱ 04'51	0.68732 AU
morning max el	15641 Jul 09 15:03	10°5641'32	21°17'17	inferior conj	15642 Jun 05 14:46	27° Ⅱ 54'53	2°39'18
desc. node	15641 Jul 11 02:54	12° © 14'55		minimum elong	15642 Jun 05 12:54	28° Ⅱ 01'15	2°38'04
	15641 Jul 24 17:30	$0^{\circ}\Omega$		morning rise	15642 Jun 10 22:10	21° Ⅱ 53'13	
morning set	15641 Aug 09 18:23	24° Ω 08'09		direct	15642 Jun 14 21:31	20° Ⅲ 23'14	
_	15641 Aug 13 11:12	0° m)		morning max el	15642 Jun 22 13:07	24° Ⅱ 40'30	20°03'25
max. Earth dist.	15641 Aug 16 17:27	5° m) 16'05	1.42791 AU		15642 Jun 27 05:43	0ංම	
				desc. node	15642 Jun 28 00:04	0°958'15	
superior conj	15641 Aug 24 01:27	17° m 30'25	-1°28'33		15642 Jul 18 00:27	$0^{\circ}\Omega$	
minimum elong	15641 Aug 24 08:29	18° m 00'29	1°27'57	morning set	15642 Jul 20 00:18	3° ₽ 03′13	
	15641 Aug 31 05:08	0∘ 亚		max. Earth dist.	15642 Jul 30 05:28	19° Ω 00'11	1.44525 AU
evening rise	15641 Sep 04 11:58	7° ≏ 41'16					
asc. node	15641 Sep 04 10:30	7° ≏ 34'41		superior conj	15642 Aug 04 18:22	27° Ω 54'07	-1°57'47
	15641 Sep 17 22:54	0° M		minimum elong	15642 Aug 05 01:44	28° Ω 24'08	1°57'47
evening max el	15641 Sep 20 16:44	3° M ₀09'24	18°04'30		15642 Aug 06 01:14	o° m y	
retrograde	15641 Sep 27 12:58	6° M 40′16		evening rise	15642 Aug 17 22:51	19° m 57'56	
evening set	15641 Sep 29 19:57	6°M16'51		asc. node	15642 Aug 22 07:09	27° m 23'18	
inferior conj	15641 Oct 06 19:50	1° M 21'27	0°03'04		15642 Aug 23 20:14	0∘ ত	
minimum elong	15641 Oct 06 19:56	1°ML21'11	0°03'24	evening max el	15642 Sep 04 07:15	16° ≏ 28'36	18°03'22
transit middle	15641 Oct 06 19:56	1° M 21'11	0°03'24	retrograde	15642 Sep 10 17:12	19° ≙ 49'18	
transit begin	15641 Oct 06 16:42	1°M28'42		evening set	15642 Sep 13 08:30	19° ≏ 13'59	
transit end	15641 Oct 06 23:11	1°M13'39		inferior conj	15642 Sep 19 17:12	13° ≏ 59'54	1°14'26
desc. node	15641 Oct 06 23:44	1° M 12'21		minimum elong	15642 Sep 19 19:07	13° ≏ 54'51	1°13'54
	15641 Oct 08 06:43	30° ₹ Ω		min. Earth dist.	15642 Sep 22 12:33	11° ≏ 03'17	0.62607 AU
min. Earth dist.	15641 Oct 10 00:15	28° ≏ 25'19	0.60320 AU	desc. node	15642 Sep 23 21:09	9° ≏ 44'05	
morning rise	15641 Oct 13 16:44	25° ≏ 34'42		morning rise	15642 Sep 26 03:25	7° ≏ 51'15	
direct	15641 Oct 20 07:31	23° ♀ 27'40		direct	15642 Oct 02 19:47	5° £ 25'38	
	15641 Nov 02 04:40	0° M		morning max el	15642 Oct 16 20:47	13° ≏ 24'00	27°55'22
morning max el	15641 Nov 03 13:40	1°M 18'28	27°53'21		15642 Oct 30 05:21	0° M ₊	
	15641 Nov 24 09:26	0° ∡ ¹			15642 Nov 16 21:32	0° ∡ ¹	
asc. node	15641 Dec 01 11:36	13° х 02'24		asc. node	15642 Nov 18 08:32	2° x 52'14	
morning set		22° ∡ ³36′06		morning set	15642 Nov 20 02:46	6° ∡ ¹25′01	
	15641 Dec 06 04:43			- · · · · ·	1561037	1 = 0 =	
	15641 Dec 09 15:31	აი	1 21121 1=-	max. Earth dist.	15642 Nov 25 07:58	17° ∡ ¹24'05	1.31768 AU
max. Earth dist.			1.31131 AU				
	15641 Dec 09 15:31 15641 Dec 12 05:01	0°중 5° 중 39'08		superior conj	15642 Nov 27 16:14	22° ∡ ³31'04	1°17'07
superior conj	15641 Dec 09 15:31 15641 Dec 12 05:01 15641 Dec 13 07:24	0°る 5°る39'08 8°る05'59	1°29'58		15642 Nov 27 16:14 15642 Nov 27 14:02	22° ⊀ 31'04 22° ⊀ 18'59	
superior conj minimum elong	15641 Dec 09 15:31 15641 Dec 12 05:01 15641 Dec 13 07:24 15641 Dec 13 05:48	0°る 5°る39'08 8°る05'59 7°る57'07	1°29'58	superior conj minimum elong	15642 Nov 27 16:14 15642 Nov 27 14:02 15642 Dec 01 01:36	22°メ31'04 22°メ18'59 0°る	1°17'07
superior conj	15641 Dec 09 15:31 15641 Dec 12 05:01 15641 Dec 13 07:24 15641 Dec 13 05:48 15641 Dec 19 23:57	0°る 5°る39'08 8°る05'59 7°る57'07 22°る54'34	1°29'58	superior conj	15642 Nov 27 16:14 15642 Nov 27 14:02 15642 Dec 01 01:36 15642 Dec 04 10:28	22° メ 31'04 22° メ 18'59 0°る 7°る22'29	1°17'07
superior conj minimum elong	15641 Dec 09 15:31 15641 Dec 12 05:01 15641 Dec 13 07:24 15641 Dec 13 05:48	0°る 5°る39'08 8°る05'59 7°る57'07	1°29'58	superior conj minimum elong	15642 Nov 27 16:14 15642 Nov 27 14:02 15642 Dec 01 01:36	22°メ31'04 22°メ18'59 0°る	1°17'07

Tranctary Tricin	incha of Mercury	10111 13000	unough 1010.	2 (01), Astrodich	IST AC 10-1 CU-2023	14.21,	page 24
evening max el	15642 Dec 29 04:40	17° ≈ 31'30	24°12'58	evening max el	15643 Dec 10 14:29	27° පි 26'51	22°29'26
retrograde	15643 Jan 11 19:06	24° ≈ 17'11		<i>3</i>	15643 Dec 13 13:01	0° ≈	
evening set	15643 Jan 16 19:53	23° ≈ 22'01		retrograde	15643 Dec 23 10:45	3° ≈ 48'22	
min. Earth dist.	15643 Jan 22 16:20	20° ≈ 27'16	0.55584 AU	evening set	15643 Dec 27 04:38	3° ≈ 17'36	
inferior conj	15643 Jan 24 18:08	19° ≈ 11'47	-5°30'16	Č	15644 Jan 03 13:19	30°Rる	
minimum elong	15643 Jan 25 01:55	18° ≈ 59'57	5°28'16	min. Earth dist.	15644 Jan 03 22:20	29° ප් 47'23	0.54580 AU
morning rise	15643 Feb 02 09:48	15° ≈ 12'50		inferior conj	15644 Jan 04 15:01	29° ට 23'54	-6°01'27
direct	15643 Feb 04 19:06	14° ≈ 58′02		minimum elong	15644 Jan 04 15:11	29° ට 23'40	6°00'40
asc. node	15643 Feb 14 06:56	19° ≈ 11'33		morning rise	15644 Jan 13 02:53	25° පි 36'24	
morning max el	15643 Feb 15 02:57	19° ≈ 58'13	19°55'23	direct	15644 Jan 16 07:40	25° ප 13'16	
C	15643 Feb 22 19:50	0° ∀			15644 Jan 27 04:18	0° ≈	
morning set	15643 Mar 04 21:22	18° ¥ 48'25		morning max el	15644 Jan 28 05:14	0°≈57'14	21°22'38
C	15643 Mar 10 09:18	$0^{\circ}\mathbf{\Upsilon}$		asc. node	15644 Feb 01 04:17	5° ≈ 20'35	
					15644 Feb 15 14:03	0°) €	
superior conj	15643 Mar 12 17:08	4° Ƴ 39'59	0°50'05	morning set	15644 Feb 17 06:37	3° ¥ 30′15	
minimum elong	15643 Mar 12 19:35	4° Υ ′52'09	0°49'42	<i>5 5 1 1</i>			
max. Earth dist.	15643 Mar 18 17:51	16° Ƴ 18'39	1.37138 AU	superior conj	15644 Feb 24 12:51	18°) 45′54	1°11'38
desc. node	15643 Mar 18 20:18	16° Ƴ 30'07		minimum elong	15644 Feb 24 15:22	18°¥58'53	1°11'33
evening rise	15643 Mar 22 11:02	23° Υ '06'37		max. Earth dist.	15644 Feb 29 04:13	28°) 11'47	1.35040 AU
evening rise	15643 Mar 26 09:34	0°8		max. Lattii dist.	15644 Mar 01 02:10	0°Υ	1.55040710
	15643 Apr 15 02:09	0°II		evening rise	15644 Mar 04 05:52	6° Y ′04'07	
evening max el	15643 Apr 26 22:23	14° Ⅱ 00′21	25°29'31	desc. node	15644 Mar 04 16:54	6° Υ 55'58	
retrograde	15643 May 09 05:30	21° I 100'21	23 2931	desc. Hode	15644 Mar 18 04:00	0° ႘	
asc. node		20° I 03'17		avaning may al	15644 Apr 08 12:04	27° 8 47'51	26°33'44
	15643 May 13 03:58	18° I 38'30		evening max el	•	27 3 4731	20 33 44
evening set	15643 May 15 04:16		0.67001 ATT		15644 Apr 10 21:31		
min. Earth dist.	15643 May 19 11:12	13° II 56'18	0.67891 AU	retrograde	15644 Apr 21 13:38	5° Ⅱ 12'44	
inferior conj	15643 May 20 20:52	12° I 107'53	2°08'46	evening set	15644 Apr 27 22:20	2° Ⅱ 40'11	
minimum elong	15643 May 20 18:42	12° Ⅱ 14'55	2°07'23	asc. node	15644 Apr 29 01:13	1° Ⅱ 41'16	
morning rise	15643 May 26 09:35	6° Ⅱ 16'21			15644 Apr 30 16:47	30°₹ 8	0.66600.477
direct	15643 May 29 21:43	5° Ⅱ 05'51	1000 40 5	min. Earth dist.	15644 May 01 23:15	28° 8 33'08	0.66600 AU
morning max el	15643 Jun 05 18:37	8° Ⅱ 49'32	19°04'05	inferior conj	15644 May 03 21:53	26° 8 13'04	1°26'36
desc. node	15643 Jun 14 21:10	20° Ⅱ 18'16		minimum elong	15644 May 03 19:58	26° 8 18'50	1°25'18
greatest brilliancy	15643 Jun 18 19:04	26° Ⅱ 03'49	-0.7m	morning rise	15644 May 09 18:41	20° 8 33'05	
	15643 Jun 21 09:39	0° ©		direct	15644 May 12 20:25	19° 8 40'23	
morning set	15643 Jun 29 06:51	12° © 05'53		morning max el	15644 May 19 06:35	23° 8 03'41	18°20'59
	15643 Jul 10 19:52	0 \circ Ω			15644 May 25 00:11	0°Щ	
max. Earth dist.	15643 Jul 12 23:06	3° Ω 20'11	1.45618 AU	desc. node	15644 May 31 18:09	10° Ⅱ 04'50	
		_		morning set	15644 Jun 08 08:49	22° Ⅱ 06′20	
superior conj	15643 Jul 15 13:53	7° Ω 26'33			15644 Jun 13 08:28	0 \circ	
minimum elong	15643 Jul 15 16:21	7° Ω 36′15	2°13'54				
	15643 Jul 29 16:14	0° m p		superior conj	15644 Jun 23 22:50	16° © 37'11	-2°09'09
evening rise	15643 Jul 30 11:05	1° Mp 16'39		minimum elong	15644 Jun 23 17:35	16°916'43	
asc. node	15643 Aug 09 03:49	16° m 55'58		max. Earth dist.	15644 Jun 24 19:14	17° 9 56'45	1.45981 AU
	15643 Aug 18 19:11	0∘ ⊽			15644 Jul 02 12:53	0 $^{\circ}$ Ω	
evening max el	15643 Aug 18 21:41	0° ჲ 06'13	18°20'21	evening rise	15644 Jul 09 22:17	11° Ω 32'40	
retrograde	15643 Aug 25 06:59	3° ₽ 30'25		greatest brilliancy	15644 Jul 19 17:21	26° Ω 47'08	-0.8m
evening set	15643 Aug 28 07:06	2° ≏ 40'29			15644 Jul 21 20:10	0° m	
	15643 Aug 31 15:02	30°R, Mp		asc. node	15644 Jul 26 00:32	6°M) 05′46	
inferior conj	15643 Sep 03 04:05	27° My $10^{\circ}08$	2°06'13	evening max el	15644 Aug 01 09:03	13° m 53'41	18°54'41
minimum elong	15643 Sep 03 06:26	27° m 03'14	2°05'27	retrograde	15644 Aug 08 02:30	17° m 34'28	
min. Earth dist.	15643 Sep 05 10:38	24° m 30'57	0.64702 AU	evening set	15644 Aug 11 11:56	16° Mp $28'05$	
morning rise	15643 Sep 09 04:18	20° Mp 48'51		inferior conj	15644 Aug 17 00:42	10° m 43'34	2°40'56
desc. node	15643 Sep 10 18:35	19° m)41'11		minimum elong	15644 Aug 17 02:40	10° m 37'19	2°40'11
direct	15643 Sep 15 16:46	18° m 13'05		min. Earth dist.	15644 Aug 18 17:17	8° m 35'04	0.66464 AU
morning max el	15643 Sep 29 07:28	26° Mp 08'54	27°22'01	morning rise	15644 Aug 22 16:34	4° m)17'17	
	15643 Oct 02 21:18	0∘ ⊽		desc. node	15644 Aug 27 16:01	1° Mp 45'42	
	15643 Oct 23 19:13	0°M		direct	15644 Aug 28 21:16	1° m 39'59	
morning set	15643 Nov 03 15:48	19°ML47'21		morning max el	15644 Sep 10 19:05	9° m 19'59	26°20'56
asc. node	15643 Nov 05 05:23	22°M53'32		-	15644 Sep 27 02:12	0∘ ত	
max. Earth dist.	15643 Nov 08 03:24	28°M50'01	1.32971 AU		15644 Oct 15 07:01	0°M	
	15643 Nov 08 16:52	0° ∡ ¹		morning set	15644 Oct 16 16:34	2°M35'36	
				max. Earth dist.	15644 Oct 20 12:59	9° ™ 57'53	1.34698 AU
superior conj	15643 Nov 11 20:46	6° ∡ ¹41'03	0°58'12	asc. node	15644 Oct 22 02:09	13°ML01'22	-
minimum elong	15643 Nov 11 18:27	6° ∡ ¹28'38	0°58'34				
evening rise	15643 Nov 18 21:15	21° ∡ ¹49'35		superior conj	15644 Oct 25 18:31	20°M29'31	0°33'18
J	15643 Nov 22 19:12	0°ಕ		minimum elong	15644 Oct 25 16:47	20°M20'36	0°33'35
desc. node	15643 Dec 07 16:02	24° る 17'33			15644 Oct 30 07:43	0° ∡ 7	
						-	

evening rise	15644 Nov 02 06:17	6° ∡ 10'46		behind sun begin	15645 Oct 08 23:50	3°M16'40	
C	15644 Nov 15 03:19	ರ°0		behind sun end	15645 Oct 09 12:37	4° ™ 19'35	
evening max el	15644 Nov 21 08:07	7° る 40'52	20°54'34	evening rise	15645 Oct 17 11:22	20°M20'22	
desc. node	15644 Nov 23 13:07	9° ට 39'50		Č	15645 Oct 22 08:28	0° ∡ ¹	
retrograde	15644 Dec 02 20:54	13° る 24'10		evening max el	15645 Nov 03 15:52	18° ∡ ¹40'12	19°38'55
evening set	15644 Dec 05 10:19	13° る 08'29		desc. node	15645 Nov 10 10:17	23° ₹ 07'49	
inferior conj	15644 Dec 14 05:51	9° ට 16'19	-5°32'21	retrograde	15645 Nov 13 13:15	23° ∡ ³36'42	
minimum elong	15644 Dec 13 21:40	9° පි 28'01	5°30'02	evening set	15645 Nov 15 12:22	23° ∡ ¹25'55	
min. Earth dist.	15644 Dec 15 03:50	8° ⋜ 44'56	0.54474 AU	inferior conj	15645 Nov 24 05:17	19° ∡ 22'52	-4°11'07
morning rise	15644 Dec 22 09:06	5° ♂ 22'56		minimum elong	15645 Nov 23 19:32	19° ∡ ³38'13	4°07'12
direct	15644 Dec 26 14:53	4° ප් 44'15		min. Earth dist.	15645 Nov 26 11:54	17° ∡ ¹56'55	0.55308 AU
morning max el	15645 Jan 08 18:45	11° පි 08'54	23°07'43	morning rise	15645 Dec 02 00:56	15° ∡ ¹04'43	
asc. node	15645 Jan 18 01:34	22° る 39'49		direct	15645 Dec 07 06:17	14° ∡ ¹03'59	
	15645 Jan 22 12:33	0° ≈		morning max el	15645 Dec 21 03:22	21° х *01'04	24°56'53
morning set	15645 Jan 31 18:09	18° ≈ 14'39			15645 Dec 28 20:57	5°0	
	15645 Feb 06 04:44	0° ∀		asc. node	15646 Jan 04 22:48	10°る52'08	
	100.0100 00 0	٠,٨		use. noue	15646 Jan 14 21:08	0° ≈	
superior conj	15645 Feb 07 16:03	3° ₩ 10'28	1°26'41	morning set	15646 Jan 16 06:01	2°≈55'31	
minimum elong	15645 Feb 07 17:58		1°26'58	morning sec	13010 3411 10 00.01	2.0.3331	
max. Earth dist.	15645 Feb 10 21:28	10° H 01'27	1.33302 AU	superior conj	15646 Jan 23 00:03	17° ≈ 45'25	1°35'25
evening rise	15645 Feb 15 13:54	19°\(\frac{1}{33}\)'29	1.55502 AC	minimum elong	15646 Jan 23 01:02	17°≈50'51	1°36'01
desc. node	15645 Feb 19 13:31	27° ¥ 12'14		max. Earth dist.	15646 Jan 24 22:07	21°≈57'56	1.32030 AU
desc. Hode		27 γ (1214		max. Earth dist.	15646 Jan 28 16:11	0° ∺	1.32030 AU
	15645 Feb 21 01:56	0°8				3° ¥ 26'08	
	15645 Mar 12 05:20 15645 Mar 22 01:26	_	27010114	evening rise	15646 Jan 30 07:55 15646 Feb 06 10:08	3° π 2608 17° ∺ 13'18	
evening max el		_	27°18'14	desc. node		1/ χ 1518	
retrograde	15645 Apr 04 15:44	18° 8 51'37			15646 Feb 13 20:35	24° Υ 23'47	27025155
evening set	15645 Apr 11 07:51	16° 8 21'32	0.64007.441	evening max el	15646 Mar 04 13:04		27°35'55
min. Earth dist.	15645 Apr 15 04:18	12° 8 46'38	0.64907 AU		15646 Mar 11 20:58	0°8	
asc. node	15645 Apr 15 22:30	11° 8 57'25	0021146	retrograde	15646 Mar 18 10:36	1° 8 52'58	
inferior conj	15645 Apr 17 15:20	10° 8 04'36	0°31'46		15646 Mar 24 13:33	30°₹ Υ	
minimum elong	15645 Apr 17 14:28	10° 8 07'00	0°30'57	evening set	15646 Mar 25 06:18	29° Y 32'49	
morning rise	15645 Apr 23 23:00	4° 8 38'00		min. Earth dist.	15646 Mar 29 00:36	26° Y °25′22	0.62893 AU
direct	15645 Apr 26 15:20	4° 8 00'20		inferior conj	15646 Mar 31 22:12	23° Y '34'13	
morning max el	15645 May 02 22:51	_	17°54'51	minimum elong	15646 Mar 31 23:24	23° Y 31'14	0°36'20
desc. node	15645 May 18 15:03	0° Ⅱ 10'47		asc. node	15646 Apr 02 19:51	21° Y '44'52	
	15645 May 18 12:27	$\Pi^{\circ}0$		morning rise	15646 Apr 07 19:17	18° Y ′23′20	
morning set	15645 May 20 14:16	3° Ⅱ 26′04		direct	15646 Apr 10 03:34	17° Ƴ 57'19	
				morning max el	15646 Apr 16 16:30	21° Y 16'38	17°46'10
superior conj	15645 Jun 03 14:20	26° Ⅱ 11'30			15646 Apr 23 09:16	9° 8	
minimum elong	15645 Jun 03 05:36	25° Ⅱ 36'50	1°46'25	morning set	15646 May 02 20:48	15° 8 56'38	
	15645 Jun 06 00:06	0 \circ		desc. node	15646 May 05 11:50	20° 8 29'45	
max. Earth dist.	15645 Jun 07 15:08	2° 5 33'27	1.45594 AU		15646 May 11 01:16	Π \circ 0	
evening rise	15645 Jun 19 14:01	21° 5 04'04					
	15645 Jun 25 10:41	$0^{\circ}\Omega$		superior conj	15646 May 15 01:19	6°Ⅱ40'52	-1°11'43
greatest brilliancy	15645 Jul 03 21:20	12° Ω 35'30	-0.6m	minimum elong	15646 May 14 18:33	6°Ⅱ12'55	1°11'34
asc. node	15645 Jul 12 21:18	24° Ω 44'46		max. Earth dist.	15646 May 21 08:54	16° Ⅱ 56'15	1.44501 AU
evening max el	15645 Jul 15 15:21	27° Ω 45'45	19°45'14		15646 May 29 16:58	0 \circ \odot	
	15645 Jul 18 04:49	0° m)		evening rise	15646 May 30 01:00	0°930'54	
retrograde	15645 Jul 23 00:50	1° m 55'14			15646 Jun 19 02:36	$0^{\circ}\Omega$	
evening set	15645 Jul 26 20:14	0° Mp 31'21		evening max el	15646 Jun 28 15:43	11° Ω 39'18	20°50'01
	15645 Jul 27 11:59	30° ₽ Ω		asc. node	15646 Jun 29 18:07	12° Ω 42'32	
inferior conj	15645 Aug 01 04:02	24° Ω 34'12	3°01'10	retrograde	15646 Jul 06 23:49	16° Ω 27'13	
minimum elong	15645 Aug 01 05:12	24° Ω 30′18	3°00'28	evening set	15646 Jul 11 05:54	14° Ω 45'45	
min. Earth dist.	15645 Aug 02 06:37	23° Ω 05′07	0.67813 AU	inferior conj	15646 Jul 16 11:35	8° Ω 37'15	3°08'59
morning rise	15645 Aug 06 13:41	18° Ω 08'35		minimum elong	15646 Jul 16 11:47	8° Ω 36'33	3°08'15
direct	15645 Aug 12 08:07	15° Ω 37'38		min. Earth dist.	15646 Jul 17 00:30	7° Ω 52'31	0.68696 AU
desc. node	15645 Aug 14 13:26	15° Ω 56'56		morning rise	15646 Jul 21 17:23	2° Ω 16′01	
morning max el	15645 Aug 24 06:03	22° Ω 45'52	25°01'22	-	15646 Jul 26 07:56	30° ℝ ∽	
Ç	15645 Aug 30 15:11	0° m)		direct	15646 Jul 27 00:07	29° © 57'55	
	15645 Sep 20 09:37	0∘ ⊽			15646 Jul 27 16:33	0°N	
morning set	15645 Sep 29 01:13	14° ≏ 40'39		desc. node	15646 Aug 01 10:48	1° Ω 53'30	
max. Earth dist.	15645 Oct 02 14:00	21° ♀ 04'04	1.36854 AU	morning max el	15646 Aug 06 16:53	6° Ω 20'43	23°33'06
	15645 Oct 07 07:29	0° M .		0	15646 Aug 25 01:54	0° my	
asc. node	15645 Oct 08 22:50	3°M11'43		morning set	15646 Sep 10 13:29	25° m 52'40	
				0 ~-*	15646 Sep 12 23:39	0° ⊽	
superior conj	15645 Oct 09 06:26	3°M49'07	0°02'54	max. Earth dist.	15646 Sep 14 12:25		1.39242 AU
minimum elong	15645 Oct 09 06:14	3°M48'05	0°03'16				
ciong	300 07 00.14	- 110.000	,				

superior conj	15646 Sep 22 04:51	16° £ 31'29	0°21'51	superior conj	15647 Sep 04 09:22	28° m) 25'43	1000122
minimum elong	15646 Sep 22 07:11	16° ⊆ 42'22	0°31'16	1 3	15647 Sep 04 09:22 15647 Sep 04 14:51	28° m) 49'55	
asc. node	15646 Sep 25 19:28	23° £ 21'15	0 31 10	minimum elong	15647 Sep 04 14.51 15647 Sep 05 06:41	0° ⊽	1 07 40
asc. node	15646 Sep 29 06:00	0°M		asc. node	15647 Sep 03 06.41 15647 Sep 12 16:04	0 <u>≈</u> 13° ≏ 25'47	
ovanina rias	15646 Oct 01 09:49	4°M₁2'00		evening rise	15647 Sep 12 16:04 15647 Sep 14 22:07	13 = 2347 17° £ 36'07	
evening rise	15646 Oct 17 01:42	4 1161200 0° √ 1		evening rise	15647 Sep 14 22.07 15647 Sep 21 17:56	0°ML	
avanina may al			10045120	avanina may al	•		10012125
evening max el	15646 Oct 17 13:20	0° ₹ 29'57	18°45'30	evening max el	15647 Sep 30 20:39	13°M01'52	18°13'35
retrograde	15646 Oct 25 22:33	4° х 43'54		retrograde	15647 Oct 08 03:20	16°M44'51	
evening set	15646 Oct 27 20:19	4° ₹ 31'34		evening set	15647 Oct 10 06:07	16°M26'35	
desc. node	15646 Oct 28 07:32	4° 🖈 24'55	2027100	desc. node	15647 Oct 15 04:52	13°M43'05	00.47107
inferior conj	15646 Nov 04 23:40	0° ∡ 108'59		inferior conj	15647 Oct 17 15:52	11°M42'25	
minimum elong	15646 Nov 04 17:39		2°24'06	minimum elong	15647 Oct 17 14:09	11°M46'04	0°45'55
	15646 Nov 05 04:35	30°RM		min. Earth dist.	15647 Oct 20 22:06	8°M56'25	0.59016 AU
min. Earth dist.	15646 Nov 08 01:05	27°M55'35	0.56917 AU	morning rise	15647 Oct 24 18:47	6°M₁2'48	
morning rise	15646 Nov 12 11:53	25°M15'11		direct	15647 Oct 31 05:40	4°M20'00	25024125
direct	15646 Nov 18 11:18	23°M48'40		morning max el	15647 Nov 14 12:39	12° M 01'27	27°34'25
	15646 Dec 01 09:37	0° ∡ 7			15647 Nov 28 15:55	0° ∡ 7	
morning max el	15646 Dec 02 15:57	1° ∡ 10′23	26°31'08	asc. node	15647 Dec 09 16:59	19° ∡ '04'50	
asc. node	15646 Dec 22 19:56	29° ∡ ¹44'09			15647 Dec 15 03:12	0° ろ	
	15646 Dec 22 23:23	0°ಕ		morning set	15647 Dec 15 23:48	1° る 48'43	
morning set	15646 Dec 31 16:30	17° る 28'34				_	
	15647 Jan 06 08:49	0° ≈		superior conj	15647 Dec 22 22:15	17° る 03'06	1°34'38
				minimum elong	15647 Dec 22 21:09	16° る 57'00	1°35'25
superior conj	15647 Jan 07 10:46	2° ≈ 24'56	1°38'01	max. Earth dist.	15647 Dec 22 12:08	16° පි 06'30	1.31030 AU
minimum elong	15647 Jan 07 10:41	2° ≈ 24'31	1°38'48		15647 Dec 28 18:16	0° ≈	
max. Earth dist.	15647 Jan 08 04:11	4°≈02'10	1.31268 AU	evening rise	15647 Dec 29 15:49	1° ≈ 56′27	
evening rise	15647 Jan 14 09:20	17° ≈ 35'49		desc. node	15648 Jan 11 03:36	26° ≈ 03'14	
	15647 Jan 20 13:10	0° ∀			15648 Jan 13 13:28	0° ∀	
desc. node	15647 Jan 24 06:50	6° ¥ 53′07		evening max el	15648 Jan 27 21:00	18°) €20'38	26°30'41
	15647 Feb 08 15:19	0 ° Υ		retrograde	15648 Feb 10 20:37	25°) 29'40	
evening max el	15647 Feb 14 20:32	6° Ƴ 47'39	27°20'51	evening set	15648 Feb 17 06:00	23° ¥ 50′14	
retrograde	15647 Feb 28 20:42	14° Ƴ 07'50		min. Earth dist.	15648 Feb 21 10:29	21° 升 12'47	0.58469 AU
evening set	15647 Mar 07 14:48	12° Y ′04'56		inferior conj	15648 Feb 24 14:11	18° ¥ 51′04	-3°26'41
min. Earth dist.	15647 Mar 11 10:48	9° Y 17'50	0.60688 AU	minimum elong	15648 Feb 24 21:57	18° ¥ 36′27	3°23'41
inferior conj	15647 Mar 14 15:04	6° Ƴ 33'05	-1°57'35	morning rise	15648 Mar 03 17:15	14° ∺ 20'19	
minimum elong	15647 Mar 14 19:23	6° Y 23'42	1°55'52	direct	15648 Mar 05 16:40	14° ∺ 06'49	
asc. node	15647 Mar 20 17:14	2° Y 12'23		asc. node	15648 Mar 06 14:39	14°) 09'49	
morning rise	15647 Mar 22 03:18	1° Y 40'52		morning max el	15648 Mar 13 18:44	18°) €06'27	18°24'58
direct	15647 Mar 24 05:30	1° Y ′22'53			15648 Mar 22 08:03	0° Y	
morning max el	15647 Mar 31 08:20	4° Y 56'52	17°55'43	morning set	15648 Mar 29 14:08	13° Y 21'06	
morning set	15647 Apr 15 22:35	29° Y 20'24			15648 Apr 07 09:42	0°8	
	15647 Apr 16 07:16	0°B					
desc. node	15647 Apr 22 08:33	10° 8 57'15		superior conj	15648 Apr 07 20:03	0° 8 47'30	0°03'12
				minimum elong	15648 Apr 07 20:15	0° 8 48'27	0°02'47
superior conj	15647 Apr 26 11:54	18° 8 14'51	-0°33'19	behind sun begin	15648 Apr 07 13:06	0° ප 15'39	
minimum elong	15647 Apr 26 08:58	18° 8 02'05	0°33'25	behind sun end	15648 Apr 08 03:24	1° 8 21'11	
	15647 May 03 10:26	Π° 0		desc. node	15648 Apr 08 05:14	1° 8 29'35	
max. Earth dist.	15647 May 03 23:00	0° Ⅱ 51'45	1.42816 AU	max. Earth dist.	15648 Apr 15 08:31	14° 8 08'08	1.40712 AU
evening rise	15647 May 09 23:07	10° Ⅲ 32′27		evening rise	15648 Apr 19 17:04	21° 8 27'44	
	15647 May 22 18:41	0 \circ \mathfrak{S}			15648 Apr 25 00:09	Π °0	
evening max el	15647 Jun 11 10:34	25° 5 32'39	22°05'25		15648 May 15 20:53	0 \circ \mathfrak{S}	
asc. node	15647 Jun 16 15:02	29° 5 345'02		evening max el	15648 May 24 01:39	9° 5 26'42	23°26'21
	15647 Jun 17 01:48	$0^{\circ}\Omega$		asc. node	15648 Jun 02 12:05	15° © 35'50	
retrograde	15647 Jun 20 21:44	1° Ω 04'41		retrograde	15648 Jun 03 17:21	15° © 42'17	
C	15647 Jun 24 10:05	30°Rூ		evening set	15648 Jun 08 22:18	13° © 29'29	
evening set	15647 Jun 25 15:07	29° © 06'28		min. Earth dist.	15648 Jun 13 17:35	7° 5 49'28	0.68998 AU
inferior conj	15647 Jun 30 21:12	22°5548'07	3°05'43	inferior conj	15648 Jun 14 06:58	7° © 03'24	2°51'58
minimum elong	15647 Jun 30 20:27	22°\$50'41	3°04'50	minimum elong	15648 Jun 14 05:25	7° 5 08'42	2°50'52
min. Earth dist.	15647 Jun 30 20:50	22°5649'21	0.69093 AU	morning rise	15648 Jun 19 12:32	0°956'51	
morning rise	15647 Jul 06 01:37	16°933'31		<i>5</i>	15648 Jun 20 22:38	30°R∏	
direct	15647 Jul 10 19:59	14°532'42		direct	15648 Jun 23 18:38	29° Ⅱ 15'36	
desc. node	15647 Jul 19 08:06	19°5010'27			15648 Jun 26 19:03	0°95	
morning max el	15647 Jul 20 05:58	20°503'44	22°05'00	morning max el	15648 Jul 02 00:17	3°957'29	20°44'25
	15647 Jul 28 15:42	0° Ω		desc. node	15648 Jul 05 05:19	7° 9 27'19	
	15647 Aug 18 06:10	0° mp			15648 Jul 21 14:06	0°Ω	
morning set	15647 Aug 22 02:00	6° Mp 03'34		morning set	15648 Jul 31 16:22	15° Ω 19'27	
max. Earth dist.	15647 Aug 27 14:34	15° Mp 05'04	1.41583 AU	max. Earth dist.	15648 Aug 08 23:04	28° Ω 23'56	1.43597 AU
WIDE.		y 00 0 T		Lui ui dibi.	22.2.2.2.5	00_00	

	15648 Aug 09 22:52	0° m		morning set	15649 Jul 10 19:54	24° © 10'28	
					15649 Jul 14 14:40	0°Ω	
superior conj	15648 Aug 15 15:54	9° m, 23'29		max. Earth dist.	15649 Jul 22 13:14	12° 6 (23'27	1.45068 AU
minimum elong	15648 Aug 15 23:36	~	1°41'44		15(40 1 1 2(22 50	100 02204	2006120
evening rise	15648 Aug 27 19:51	0° ჲ 21'52 0° ჲ		superior conj	15649 Jul 26 22:58 15649 Jul 27 04:56	19° Ω 23'04 19° Ω 46'59	
asc. node	15648 Aug 27 14:53 15648 Aug 29 12:43	ა <u>•</u> 21'52		minimum elong	15649 Aug 02 12:21	0° M)	2 00 40
evening max el	15648 Sep 13 09:38	26° Ω 06'45	18°01'38	evening rise	15649 Aug 02 12.21 15649 Aug 09 21:39	0 ly 12°Mg 15′09	
retrograde	15648 Sep 20 00:25	20 ⊆ 0043 29° ⊆ 31'59	10 01 30	asc. node	15649 Aug 16 09:22	23° m) 04'36	
evening set	15648 Sep 22 10:44	29° 2 03'59		asc. Houc	15649 Aug 20 17:09	0° ⊽	
inferior conj	15648 Sep 29 03:46	24° ⊆ 00'07	0°35'47	evening max el	15649 Aug 28 00:28	ი _ 9° _ 34'56	18°08'27
minimum elong	15648 Sep 29 04:50	23° £ 57'28	0°35'39	retrograde	15649 Sep 03 09:12	12° ≏ 55'43	10 0027
desc. node	15648 Oct 01 02:14	22° £ 05'19	0 33 37	evening set	15649 Sep 06 04:04	12° ⊆ 14'39	
min. Earth dist.	15648 Oct 02 04:54	21° ₽ 01'20	0.61306 AU	inferior conj	15649 Sep 12 07:23	6° ₽ 53'36	1°38'36
morning rise	15648 Oct 05 20:05	18° ഫ 02'30	0.01500110	minimum elong	15649 Sep 12 09:37	6° £ 47'25	1°37'55
direct	15648 Oct 12 12:04	15° Ω 46'49		min. Earth dist.	15649 Sep 14 21:40	4° £ 02'08	0.63527 AU
morning max el	15648 Oct 26 16:57	23° ≏ 42'13	27°58'51	desc. node	15649 Sep 17 23:39	1° ≏ 05'06	
S	15648 Nov 01 09:13	0°M₊		morning rise	15649 Sep 18 13:10	0° م 38'17	
	15648 Nov 20 23:13	0° ∡ ¹		C	15649 Sep 19 10:38	30°R, M)	
asc. node	15648 Nov 25 13:58	8° ∡ ¹46'17		direct	15649 Sep 25 04:27	28° Mp 06'59	
morning set	15648 Nov 29 01:56	15° ∡ ′51'17			15649 Oct 01 10:51	0∘ ⊽	
max. Earth dist.	15648 Dec 04 18:04	28° ∡ °01'37	1.31337 AU	morning max el	15649 Oct 09 02:01	6° ჲ 06'42	27°45'04
	15648 Dec 05 15:31	ರ°ರ			15649 Oct 27 07:32	0° M	
				asc. node	15649 Nov 12 10:52	28°M42'17	
superior conj	15648 Dec 06 08:38	1° る 34'55	1°25'15	morning set	15649 Nov 12 20:34	29°M30'50	
minimum elong	15648 Dec 06 06:44	1° る 24'24	1°25'55		15649 Nov 13 02:22	0° ∡ 7	
evening rise	15648 Dec 13 01:25	16° る 23'18		max. Earth dist.	15649 Nov 17 18:05	9° ∡ °39'01	1.32208 AU
	15648 Dec 19 16:07	0° ≈					
desc. node	15648 Dec 28 00:27	14° ≈ 32'22		superior conj	15649 Nov 20 15:59	15° ₹ 55'18	1°09'51
evening max el	15649 Jan 08 12:53	29° ≈ 01'01	25°09'17	minimum elong	15649 Nov 20 13:40	15° ∡ ⁴42'41	1°10'19
	15649 Jan 09 14:31	0° ∀			15649 Nov 27 02:38	0°ප	
retrograde	15649 Jan 22 08:50	5° ¥ 57'18		evening rise	15649 Nov 27 12:18	0° る 52'07	
evening set	15649 Jan 28 00:10	4°) 45'42			15649 Dec 13 08:56	0° ≈	
min. Earth dist.	15649 Feb 02 01:11	2° ∺ 02'23	0.56490 AU	desc. node	15649 Dec 14 21:22	2°≈05'46	
inferior conj	15649 Feb 04 16:35	0°) 19'13		evening max el	15649 Dec 20 22:56	9° ≈ 05'04	23°28'55
minimum elong	15649 Feb 05 01:51	0°) €04'06	4°48'47	retrograde	15650 Jan 03 07:43	15°≈42'22	
	15649 Feb 05 04:23	30°R≈		evening set	15650 Jan 07 19:35	14°≈58'38	0.55054.477
morning rise	15649 Feb 13 06:09	26°≈10'01		min. Earth dist.	15650 Jan 14 09:50	11°≈50'54	0.55054 AU
direct	15649 Feb 15 08:51	25°≈57'13		inferior conj	15650 Jan 15 22:44	10°≈57'06	
asc. node	15649 Feb 21 12:04	27°≈52'59 0° ¥		minimum elong morning rise	15650 Jan 16 03:58	10°≈49'29	5°48'54
morning max el	15649 Feb 24 05:28 15649 Feb 24 19:28		19°15'49	direct	15650 Jan 24 13:50 15650 Jan 27 05:57	7°≈04'17 6°≈46'57	
morning max er	15649 Mar 13 15:01	0 X 33 07 27° ¥ 45′04	19 13 49	morning max el	15650 Feb 07 06:36	0 ≈40 37 12°≈06'20	20°29'46
morning set	15649 Mar 14 18:06	27 γ (43 04		asc. node	15650 Feb 08 09:27	12 ≈ 00 20 13° ≈ 14'19	20 29 40
	1304) Wai 14 10.00	0 1		asc. node	15650 Feb 19 15:38	0°) €	
superior conj	15649 Mar 21 21:17	14° Ƴ 05'41	0°34'42	morning set	15650 Feb 25 21:59	12° ∺ 23'01	
minimum elong	15649 Mar 21 23:16	14° Υ 15'18	0°34'14	morning sec	13030100 23 21.37	12 /(25 01	
desc. node	15649 Mar 26 01:52	22° Y '02'24	0 3 . 1 .	superior conj	15650 Mar 05 11:21	27° ¥ 57'32	1°00'00
max. Earth dist.	15649 Mar 28 14:39	26° Y ′40′50	1.38427 AU	minimum elong	15650 Mar 05 13:55	28°) 10′34	0°59'44
	15649 Mar 30 11:10	0°B		C	15650 Mar 06 11:36	0° Υ	
evening rise	15649 Apr 01 08:07	3° 8 17'03		max. Earth dist.	15650 Mar 10 21:57	8° Y '42'29	1.36211 AU
-	15649 Apr 18 03:10	Π°		desc. node	15650 Mar 12 22:29	12° Y ′32'20	
evening max el	15649 May 06 15:07	23° Ⅱ 20'56	24°46'36	evening rise	15650 Mar 14 17:54	15° Y 53'15	
	15649 May 16 13:39	0 \circ \mathfrak{S}			15650 Mar 22 20:29	0° 8	
retrograde	15649 May 18 09:23	0° © 12'54			15650 Apr 12 15:30	$\Pi^{\circ}0$	
asc. node	15649 May 20 09:12	29° Ⅱ 56′04		evening max el	15650 Apr 19 04:42	7° Ⅱ 13'19	25°58'50
	15649 May 20 03:21	30°Ŗ Ⅱ		retrograde	15650 May 01 20:43	14° Ⅱ 29'40	
evening set	15649 May 24 01:45	27° Ⅱ 48'51		asc. node	15650 May 07 06:24	12° Ⅲ 33′02	
min. Earth dist.	15649 May 28 12:41	22° Ⅱ 45'43	0.68423 AU	evening set	15650 May 07 23:46	11° Ⅱ 58'56	
inferior conj	15649 May 29 14:57	21° Ⅲ 18′25		min. Earth dist.	15650 May 12 04:00	7° Ⅲ 31'39	0.67390 AU
minimum elong	15649 May 29 12:54	21° Ⅲ 25′16	2°26'24	inferior conj	15650 May 13 19:09	5° Ⅱ 28'50	1°52'23
morning rise	15649 Jun 04 00:17	15° Ⅱ 20'57		minimum elong	15650 May 13 17:00	5° Ⅱ 35'35	1°50'59
direct	15649 Jun 07 18:39	13° Ⅱ 59'35	1002640	morning rise	15650 May 19 10:57	29° 8 41'47	
morning max el	15649 Jun 15 01:35	18° Ⅱ 01'25	19°36'19	r.	15650 May 19 00:02	30°₹ ႘	
desc. node	15649 Jun 22 02:27	26° Ⅱ 27'41		direct	15650 May 22 18:29	28° 8 39'10	
araataat buill:	15649 Jun 24 15:44	0°©	0.6m	morning mass -1	15650 May 26 17:08	0°Ⅱ 2°Ⅲ12'55	100/2127
greatest brilliancy	15649 Jun 27 19:24	4° © 32'33	-0.6m	morning max el	15650 May 29 09:56	2° Ⅱ 12'55	10 45 5/

desc. node	15650 Jun 08 23:30 15650 Jun 18 02:18	16°∏00'03 0°©		morning set	15651 May 31 22:12 15651 Jun 10 20:40	14°∏06'05 0°໑	
morning set	15650 Jun 20 08:43	3°931'53			13031 3411 10 20.40	0 3	
max. Earth dist.	15650 Jul 05 07:39	26°950'15	1.45862 AU	superior conj	15651 Jun 15 21:39	7° 9 56'22	-2°01'26
				minimum elong	15651 Jun 15 14:08	7° 5 26'53	2°01'51
superior conj	15650 Jul 06 12:04	28°5541'10	-2°14'00	max. Earth dist.	15651 Jun 18 04:19	11° © 30'08	1.45908 AU
minimum elong	15650 Jul 06 11:10	28° © 37'40	2°14'47		15651 Jun 30 02:14	$0^{\circ}\Omega$	
	15650 Jul 07 08:14	$0^{\circ}\Omega$		evening rise	15651 Jul 02 00:37	2° Q 59′21	
evening rise	15650 Jul 21 23:01	23° Ω 05'49		greatest brilliancy	15651 Jul 13 22:45	21° Ω 14'21	-0.7m
	15650 Jul 26 06:39	0° ™			15651 Jul 20 00:53	0° ™	
greatest brilliancy	15650 Jul 27 21:38	2° Mg 35'20	-0.9m	asc. node	15651 Jul 21 02:44	1°M/26'22	
asc. node	15650 Aug 03 06:02	12°Mp28'19		evening max el	15651 Jul 25 23:24	7° m 08'21	19°14'23
evening max el	15650 Aug 11 13:55	23° m 17'43	18°33'00	retrograde	15651 Aug 01 22:34	10° m 59'33	
retrograde	15650 Aug 18 01:38	26°M 47'11		evening set	15651 Aug 05 12:16	9° m 45'37	
evening set	15650 Aug 21 05:40	25° m 50'27		inferior conj	15651 Aug 10 22:33	3° TD 55'37	2°51'09
inferior conj	15650 Aug 26 22:46	20° Mp 14'11	2°22'52	minimum elong	15651 Aug 11 00:12	3° m 50'13	2°50'25
minimum elong	15650 Aug 27 01:02	20° Mp 07'18	2°22'05	min. Earth dist.	15651 Aug 12 09:06	2°Mp03'16	0.67091 AU
min. Earth dist.	15650 Aug 28 23:32	17° m 46'30	0.65497 AU		15651 Aug 14 01:03	30°R Ω	
morning rise	15650 Sep 01 19:12	13° m 50'08		morning rise	15651 Aug 16 11:30	27° Ω 29'22	
desc. node	15650 Sep 04 21:05	11° m 53'47		direct	15651 Aug 22 12:09	24° Ω 53'59	
direct	15650 Sep 08 04:55	11° TD 12'23		desc. node	15651 Aug 22 18:30	24° Ω 54'15	
morning max el	15650 Sep 21 13:03	19° m 03'15	26°58'54		15651 Sep 01 12:53	0° m	
	15650 Sep 30 20:29	0∘ ⊽		morning max el	15651 Sep 04 00:20	2° Tp 21'33	25°48'54
	15650 Oct 20 07:40	0°M			15651 Sep 24 23:45	0∘ 亚	
morning set	15650 Oct 27 04:47	12°M39'49		morning set	15651 Oct 09 23:10	25° ≏ 10'50	
asc. node	15650 Oct 30 07:39	18°M47'03	1 22 6 12 1 1 1	P. d. P.	15651 Oct 12 13:25	0°M,	1.05555 1.77
max. Earth dist.	15650 Oct 31 09:11	20°M55'26	1.33642 AU	max. Earth dist.	15651 Oct 13 14:53	2°M00'51	1.35575 AU
	1565031 04 17 50	200 M 57120	0040102	asc. node	15651 Oct 17 04:22	8° ™ 56'40	
superior conj	15650 Nov 04 17:58	29°M57'28	0°48'23		15651 0 + 10 11 56	120 M 25102	0021102
minimum elong	15650 Nov 04 15:47	29°M46'01	0°48'42	superior conj	15651 Oct 19 11:56	13°M35'03	0°21'03
avanina riaa	15650 Nov 04 18:27	0° द्र 7 15° द्र7 17'35		minimum elong	15651 Oct 19 10:43 15651 Oct 27 06:11	13°M28'56 29°M35'02	0°21'22
evening rise	15650 Nov 11 22:33 15650 Nov 19 05:57	0° ろ		evening rise	15651 Oct 27 11:02	29 IIL33 02 0° √ 1	
desc. node	15650 Dec 01 18:23	18°る22'56		evening max el	15651 Nov 14 10:24	29° х ¹ 36'33	20°19'42
evening max el	15650 Dec 02 11:07	18 322 30 19° る 05'02	21°47'17	evening max er	15651 Nov 14 10:24	29 X・30 33	20 1942
retrograde	15650 Dec 14 19:20	19 3 03 02 25° る 11'12	21 4/1/	desc. node	15651 Nov 18 15:29	3°₹00'00	
evening set	15650 Dec 18 00:00	24°る48'18		retrograde	15651 Nov 25 06:21	5°る00'02	
inferior conj	15650 Dec 26 15:22	20°る57'28	-5°56'41	evening set	15651 Nov 27 12:03	4° る 47'17	
minimum elong	15650 Dec 26 11:29	20 3 57 20 21° る 02'54		inferior conj	15651 Dec 06 08:05	0° る 51'38	-5°02'42
min. Earth dist.	15650 Dec 26 15:20	20°る57'32	0.54424 AU	minimum elong	15651 Dec 05 22:17	1° る 06'04	
morning rise	15651 Jan 03 23:39	17° る 09'41			15651 Dec 07 19:06	30°R. ✓	
direct	15651 Jan 07 15:06	16° る 40'35		min. Earth dist.	15651 Dec 07 21:08	29° х 57′02	0.54729 AU
morning max el	15651 Jan 20 02:42		22°05'34	morning rise	15651 Dec 14 08:00	26° ₹ ′50′12	
asc. node	15651 Jan 26 06:47	29° る 55'39		direct	15651 Dec 19 00:31	26° ₹ '02'50	
	15651 Jan 26 08:02	0° ≈			15651 Dec 29 08:47	ರ∘ರ	
morning set	15651 Feb 10 08:27	27° ≈ 06'46		morning max el	15652 Jan 01 12:47	2° る 41'20	23°54'39
	15651 Feb 11 17:08	0°) €		asc. node	15652 Jan 13 04:02	17° る 39'22	
					15652 Jan 20 02:09	0° ≈	
superior conj	15651 Feb 17 10:34	12° 升 12′20	1°18'47	morning set	15652 Jan 25 20:21	11° ≈ 50'34	
minimum elong	15651 Feb 17 12:53	12°) €24'32	1°18'52				
max. Earth dist.	15651 Feb 21 11:08	20°) 32′53	1.34259 AU	superior conj	15652 Feb 01 16:05	26° ≈ 42′04	1°31'08
evening rise	15651 Feb 25 18:48	29° ∺ 05'43		minimum elong	15652 Feb 01 17:38	26° ≈ 50'30	1°31'35
	15651 Feb 26 06:07	0° Υ			15652 Feb 03 04:39	0° ∀	
desc. node	15651 Feb 27 19:05	2° Y ′54'50		max. Earth dist.	15652 Feb 04 07:58	2° ∺ 26′20	1.32711 AU
	15651 Mar 16 00:34	0°8		evening rise	15652 Feb 09 07:26	12°) 45′53	
evening max el	15651 Apr 01 18:37	20° 8 56'23	26°55'33	desc. node	15652 Feb 14 15:41	23°) €05'23	
retrograde	15651 Apr 15 02:17	28° 8 24'51			15652 Feb 18 11:57	0° Υ	
evening set	15651 Apr 21 14:26	25° 8 52'51			15652 Mar 10 05:08	0°8	27020121
asc. node	15651 Apr 24 03:39	23° 8 31'38	0.65027.433	evening max el	15652 Mar 14 07:34	4°818'11	27°29'21
min. Earth dist.	15651 Apr 25 13:22	21° 8 59'42	0.65927 AU	retrograde	15652 Mar 28 01:10	11° 8 49'07	
inferior conj	15651 Apr 27 17:16	19° 8 29'16	1°04'59	evening set	15652 Apr 03 19:31	9° 8 22'22	0.64000 411
minimum elong morning rise	15651 Apr 27 15:42 15651 May 03 18:20	19° 6 33°53	1°03'49	min. Earth dist. inferior conj	15652 Apr 07 14:46 15652 Apr 10 06:37	6°800'00 3°812'32	0.64089 AU 0°04'27
direct	15651 May 06 15:59	13° 8 08'23		minimum elong	15652 Apr 10 06:37 15652 Apr 10 06:29	3° 8 12'52	0°04'27 0°03'59
morning max el	15651 May 12 23:57		18°07'43	transit middle	15652 Apr 10 06:29 15652 Apr 10 06:29	3° 8 12'52	0°03'59
morning max ci	15651 May 23 02:30	0°Ⅱ	10 0/43	transit begin	15652 Apr 10 03:28	3° 8 20'49	0 03 37
desc. node	15651 May 26 20:28	5° П 55'53		transit end	15652 Apr 10 09:30	3° 8 04'55	
acce. Hode	10001 111ay 20 20.20	· <u> </u>			100211pi 10 07.30	5 0,755	

asc. node	15652 Apr 10 00:59	3° 8 27'25		minimum elong	15653 Mar 24 10:26	16° Y 25′10	1°08'41
	15652 Apr 13 13:25	30° ₹Ƴ		asc. node	15653 Mar 27 22:22	13° Y 24'45	
morning rise	15652 Apr 16 19:42	27° Y ′52'21		morning rise	15653 Mar 31 11:28	11° Y 27'54	
direct	15652 Apr 19 08:33	27° Υ 19'56		direct	15653 Apr 02 16:51	11° Y 05'46	
uncci	=						150 45150
	15652 Apr 25 01:59	0°8		morning max el	15653 Apr 09 10:36	14° Y 29'45	17°47'59
morning max el	15652 Apr 25 17:10	0° 8 35'19	17°49'01		15653 Apr 20 04:49	9° 8	
morning set	15652 May 12 14:57	25° 8 58'08		morning set	15653 Apr 25 06:27	8° 8 54'02	
desc. node	15652 May 12 17:19	26° 8 08'08		desc. node	15653 Apr 29 14:06	16° 8 31'43	
	15652 May 15 00:21	Π°					
	,			superior conj	15653 May 06 17:30	28° 8 49'31	-0°55'30
superior coni	15652 May 25 20:20	17° Ⅲ 51'22	1022125	minimum elong	15653 May 06 12:20	28° 8 27'44	
superior conj	•			minimum ciong	-	_	0 33 20
minimum elong	15652 May 25 11:58	17° Ⅱ 17'39			15653 May 07 10:16	Π °0	
max. Earth dist.	15652 May 31 00:06	26° Ⅱ 04'49	1.45211 AU	max. Earth dist.	15653 May 13 16:26	10° Ⅱ 17'50	1.43846 AU
	15652 Jun 02 11:57	0 \circ \odot		evening rise	15653 May 21 02:25	22° Ⅱ 01'43	
evening rise	15652 Jun 10 12:16	12°523'37			15653 May 26 07:19	0 \circ \odot	
C	15652 Jun 22 05:10	$0^{\circ}\Omega$			15653 Jun 16 15:27	$0^{\circ}\Omega$	
asc. node	15652 Jul 06 23:31	19° Ω 49'16		evening max el	15653 Jun 21 00:55	4° Ω 54'06	21°20'57
			20011112	•			21 2037
evening max el	15652 Jul 08 03:09	21°Ω01'02	20°11'13	asc. node	15653 Jun 23 20:24	7° Ω 25'31	
retrograde	15652 Jul 15 21:28	25° Ω 25'53		retrograde	15653 Jun 29 20:19	10° Ω 00'58	
evening set	15652 Jul 19 21:23	23° Ω 54'16		evening set	15653 Jul 04 07:05	8° Ω 12'12	
inferior conj	15652 Jul 25 03:56	17° Ω 51'54	3°05'54	inferior conj	15653 Jul 09 12:37	1° Ω 59'03	3°08'53
minimum elong	15652 Jul 25 04:42	17° Ω 49'18	3°05'12	minimum elong	15653 Jul 09 12:25	1° Ω 59'45	3°08'06
min. Earth dist.	15652 Jul 26 00:33	16° Ω 41'38	0.68244 AU	min. Earth dist.	15653 Jul 09 19:50	1° Ω 33'55	0.68923 AU
			0.00244 AU	mm. Latur dist.			0.00723 AC
morning rise	15652 Jul 30 11:39	11° Ω 27'54			15653 Jul 10 23:06	30° ₹ 55	
direct	15652 Aug 05 01:08	9° Ω 02'04		morning rise	15653 Jul 14 17:32	25° © 40'12	
desc. node	15652 Aug 08 15:54	9° Ω 53'10		direct	15653 Jul 19 18:54	23° © 29'12	
morning max el	15652 Aug 16 11:14	15° Ω 52'08	24°24'27	desc. node	15653 Jul 26 13:17	26° © 26'42	
	15652 Aug 28 03:18	o∘ m y		morning max el	15653 Jul 29 22:49	29°930'50	22°55'03
	15652 Sep 16 22:12	0∘ <u>v</u>		Č	15653 Jul 30 10:15	$0^{\circ}\Omega$	
morning set	15652 Sep 20 23:37	∘ _ 6° ჲ 54'09			15653 Aug 21 21:11	0° mp	
•	•		1 27056 ATT	. ,	-	-•	
max. Earth dist.	15652 Sep 24 14:17	13° ≏ 16'52	1.37856 AU	morning set	15653 Sep 02 02:01	17° m 40'37	
				max. Earth dist.	15653 Sep 06 13:20	25° Mp 10'20	1.40257 AU
superior conj	15652 Oct 01 18:32	26° ₽ 39'23	-0°11'27		15653 Sep 09 08:26	0∘ ⊽	
minimum elong	15652 Oct 01 19:18	26° ≏ 43'01	0°10'59				
behind sun begin	15652 Oct 01 14:16	26° ≙ 18'47		superior conj	15653 Sep 14 09:50	9° ≏ 01'49	-0°47'21
behind sun end	15652 Oct 02 00:20	17'2 م °27		minimum elong	15653 Sep 14 13:29	9° ≏ 18'28	0°46'42
asc. node	15652 Oct 03 01:01	29° ≏ 06'54		asc. node	15653 Sep 19 21:38	19° ≏ 14'26	
use. Houe	15652 Oct 03 11:55	0° M		evening rise	15653 Sep 24 03:24	27° Ω 18'34	
				evening rise			
evening rise	15652 Oct 10 08:48	13° M 37'51			15653 Sep 25 13:19	0° ™	
	15652 Oct 19 01:08	0° ∡		evening max el	15653 Oct 10 02:18	23°M05'20	18°29'26
evening max el	15652 Oct 27 00:09	10° ∡ 56′54	19°13'28	retrograde	15653 Oct 17 23:07	27° M 04'41	
desc. node	15652 Nov 04 12:40	15° ∡ ³33′18		evening set	15653 Oct 19 22:23	26°M50′26	
retrograde	15652 Nov 05 05:30	15° ∡ ³34'51		desc. node	15653 Oct 22 09:58	25°M55'12	
evening set	15652 Nov 07 02:42	15° ∡ °24'04		inferior conj	15653 Oct 27 18:25	22°M18'58	-1°43'11
inferior conj	15652 Nov 15 14:44	11° × 13'00	3°27'58	minimum elong	15653 Oct 27 14:20	22°M26'56	
3				_			
minimum elong	15652 Nov 15 06:15		3°24'09	min. Earth dist.	15653 Oct 30 23:32	19° M 49'05	0.57759 AU
min. Earth dist.	15652 Nov 18 07:00	9° ∡ ¹25'41	0.55907 AU	morning rise	15653 Nov 04 02:50	17° M 09'01	
morning rise	15652 Nov 23 07:21	6° ∡ ¹40'12		direct	15653 Nov 10 07:53	15° ™ 30'54	
direct	15652 Nov 28 20:48	5° ₹ ¹29'08		morning max el	15653 Nov 24 14:22	23°M02'45	27°02'36
morning max el	15652 Dec 12 22:24	12° ∡ ³37′28	25°40'00		15653 Nov 30 20:04	0° ∡ ¹	
Z .	15652 Dec 26 09:27	ರ°0		asc. node	15653 Dec 16 22:20	25° ∡ 15'25	
asc. node	15652 Dec 30 01:13	6° ට 10'13		use. Houe	15653 Dec 19 09:32	0°る	
morning set	15653 Jan 09 07:54	26° る 29'29		morning set	15653 Dec 24 17:15	10° る 57'43	
	15653 Jan 10 22:39	0° ≈					
				superior conj	15653 Dec 31 12:48	26° る 00'12	1°37'20
superior conj	15653 Jan 16 01:31	11° ≈ 20′21	1°37'16	minimum elong	15653 Dec 31 12:17	25° る 57'18	1°38'08
minimum elong	15653 Jan 16 02:04	11° ≈ 23′21	1°37'58	max. Earth dist.	15653 Dec 31 18:28	26° る 31'56	1.31090 AU
max. Earth dist.	15653 Jan 17 11:20	14° ≈ 27'25	1.31640 AU		15654 Jan 02 07:42	0° ≈	
			1.51070 AU	ovening rig-			
evening rise	15653 Jan 23 04:54	26°≈46'53		evening rise	15654 Jan 07 08:42	11° ≈ 01'51	
	15653 Jan 24 18:28	0° ∀		_	15654 Jan 16 23:47	0° ∀	
desc. node	15653 Jan 31 12:20	12° ¥ 58'44		desc. node	15654 Jan 18 09:02	2° ∺ 27'07	
	15653 Feb 10 20:37	0° Y		evening max el	15654 Feb 06 22:16	29° ₭ 09'48	27°03'48
evening max el	15653 Feb 24 17:35	17° Y ′06'41	27°33'37		15654 Feb 07 19:56	0° Y	
retrograde	15653 Mar 10 16:34	24° Y ′33'01		retrograde	15654 Feb 20 22:59	6° Y 26′20	
evening set	15653 Mar 17 12:30	22° Υ 18'57		evening set	15654 Feb 27 14:10	4° Υ 32'39	
min. Earth dist.	15653 Mar 21 06:45	19° Υ 21'34	0.61972 AU	•	15654 Mar 03 12:35	1° Υ 51'07	0.59729 AU
				min. Earth dist.			0.37/29 AU
inferior conj	15653 Mar 24 08:01	16° Ƴ 30'49	-1-09/31		15654 Mar 05 19:23	30°₽)	

inforior coni	15654 Mar 06 17:40	29°) 13'48	2024154	ratra ara da	15655 Feb 02 18:09	17° ¥ 24'06	
inferior conj minimum elong	15654 Mar 06 17:48 15654 Mar 06 23:38	29 X 13 48 29° X 01'52		retrograde evening set	15655 Feb 08 20:50	17 X 24 06 15° X 56'34	
Č	15654 Mar 14 12:36	29 X 01 32 24° X 30'37	2 32 32	min. Earth dist.		13° ∺ 18′27	0.57581 AU
morning rise asc. node	15654 Mar 14 12:38	24 X 30 3 7 24° X 26'24		inferior conj	15655 Feb 13 08:28 15655 Feb 16 08:22	13 X 1827 11° X 11'40	
direct		24°)(15'07		minimum elong	15655 Feb 16 17:13	10° X 56'01	4°01'07
morning max el	15654 Mar 16 12:54 15654 Mar 24 00:41	24 X 13 07 27° X 58'57	10005126	_	15655 Feb 24 16:41	6° ¥ 49'51	4 0107
morning max er		27 π3837 0° Υ	18 03 30	morning rise		6° ∺ 37'11	
	15654 Mar 25 21:18	0° γ 22° Υ 35'19		direct	15655 Feb 26 16:28	6° π 3/11 7° ∺ 08'10	
morning set	15654 Apr 08 14:43			asc. node	15655 Mar 01 17:13		10042142
	15654 Apr 12 14:30	0°8		morning max el	15655 Mar 07 07:26	10°) 51′27	18°43'43
desc. node	15654 Apr 16 10:47	7° 8 01'40			15655 Mar 19 21:51	0°Υ 6° 20 4 7 11 0	
	15654 4 10 12 44	100 40155	0017102	morning set	15655 Mar 23 10:42	6° Ƴ 47'19	
superior conj	15654 Apr 18 13:44	10° 8 49'55			15655 4 01 05 20	2200042102	0017115
minimum elong	15654 Apr 18 12:17	10° 8 43'27		superior conj	15655 Apr 01 05:39	23° Y 43'03	0°17'15
max. Earth dist.	15654 Apr 26 03:59	23° 8 55'35	1.41961 AU	minimum elong	15655 Apr 01 06:47	23° Y '48'20	0°16'48
	15654 Apr 29 20:27	0°П		desc. node	15655 Apr 03 07:25	27° Y ′34′26	
evening rise	15654 May 01 08:25	2° ∏ 25'12			15655 Apr 04 15:13	0°8	
	15654 May 19 16:16	0.20		max. Earth dist.	15655 Apr 08 11:43	6° 8 52'54	1.39757 AU
evening max el	15654 Jun 03 17:54	18° © 47'42	22°39'32	evening rise	15655 Apr 12 11:30	13° 8 44'21	
asc. node	15654 Jun 10 17:24	23° © 59'48			15655 Apr 22 14:26	0°П	
retrograde	15654 Jun 13 17:30	24° © 39'05			15655 May 14 18:14	0ංම	
evening set	15654 Jun 18 15:39	22° © 34'35		evening max el	15655 May 17 08:13	2° 5 42'30	24°01'04
inferior conj	15654 Jun 23 22:35	16° © 12'35	3°01'08	retrograde	15655 May 28 11:34	9° © 14'09	
minimum elong	15654 Jun 23 21:29	16° © 16'25	3°00'10	asc. node	15655 May 28 14:29	9° 5 14'06	
min. Earth dist.	15654 Jun 23 16:44	16° © 32'55	0.69112 AU	evening set	15655 Jun 02 21:26	6°956'20	
morning rise	15654 Jun 29 03:09	10° © 01'00		min. Earth dist.	15655 Jun 07 13:03	1°532'00	0.68817 AU
direct	15654 Jul 03 16:16	8° © 08'12		inferior conj	15655 Jun 08 07:50	0° ട്ട 28'10	2°42'59
morning max el	15654 Jul 12 13:43	13° © 17'57	21°29'19	minimum elong	15655 Jun 08 06:02	0° ട്ട 34'17	2°41'47
desc. node	15654 Jul 13 10:33	14° © 11'21			15655 Jun 08 16:07	30°RⅡ	
	15654 Jul 25 20:56	0 $^{\circ}$ Ω		morning rise	15655 Jun 13 14:40	24° Ⅱ 25'14	
morning set	15654 Aug 13 04:27	27° Ω 26′18		direct	15655 Jun 17 15:47	22° Ⅱ 52'17	
	15654 Aug 14 19:15	0° m		morning max el	15655 Jun 25 10:44	27° Ⅱ 15′23	20°13'35
max. Earth dist.	15654 Aug 19 17:35	7° m 57'44	1.42493 AU		15655 Jun 28 00:02	0ං ම	
				desc. node	15655 Jun 30 07:45	2° 5 48'07	
superior conj	15654 Aug 27 05:28	20°m/33'19	-1°23'23		15655 Jul 19 07:10	0 $^{\circ}$ Ω	
minimum elong	15654 Aug 27 12:09	21°Mp02'07	1°22'45	morning set	15655 Jul 23 12:01	6° Ω 25'18	
	15654 Sep 01 14:49	0∘ ত		max. Earth dist.	15655 Aug 02 04:54	21° Ω 36′29	1.44304 AU
asc. node	15654 Sep 06 18:16	9° ഫ 15'58			15655 Aug 07 09:48	0° m þ	
evening rise	15654 Sep 07 10:07	10° ≏ 27'55					
	15654 Sep 18 19:34	0° M		superior conj	15655 Aug 08 01:54	1° m 05'48	-1°54'05
evening max el	15654 Sep 23 12:37	5°M53'13	18°06'13	minimum elong	15655 Aug 08 09:31	1° m 37′02	1°53'56
retrograde	15654 Sep 30 11:09	9° ™ 26'37		evening rise	15655 Aug 20 23:59	22° m 52'37	
evening set	15654 Oct 02 17:02	9° ™ 04'37		asc. node	15655 Aug 24 14:54	29° m 06'48	
desc. node	15654 Oct 09 07:20	4° ™ 39′21			15655 Aug 25 03:19	0∘ ত	
inferior conj	15654 Oct 09 19:25	4°M12'03	-0°09'32	evening max el	15655 Sep 07 02:52	19° ഫ 09'09	18°02'19
minimum elong	15654 Oct 09 19:06	4° ™ 12'46	0°09'00	retrograde	15655 Sep 13 13:43	22° ₽ 30'36	
transit middle	15654 Oct 09 19:06	4°M12'46	0°09'00	evening set	15655 Sep 16 03:44	21° ≙ 57'14	
transit begin	15654 Oct 09 16:19	4° ™ 19'05		inferior conj	15655 Sep 22 14:29	16° ≏ 45'36	1°04'54
transit end	15654 Oct 09 21:53	4° ™ 06′26		minimum elong	15655 Sep 22 16:13	16° ≙ 41′05	1°04'26
min. Earth dist.	15654 Oct 13 00:35	1° M 17'57	0.59984 AU	min. Earth dist.	15655 Sep 25 11:24	13° ≏ 47'57	0.62277 AU
	15654 Oct 14 14:25	30° Ŗ Ω		desc. node	15655 Sep 26 04:45	13° ≙ 05'46	
morning rise	15654 Oct 16 17:55	28° ≏ 29'35		morning rise	15655 Sep 29 02:15	10° ≏ 39'32	
direct	15654 Oct 23 08:01	26° £ 26′01		direct	15655 Oct 05 18:40	8° £ 16′22	
							27057126
morning max el	15654 Nov 01 15:14	0° M		morning max el	15655 Oct 19 20:49	16° ≙ 13'57	2/°5/26
morning max ci	15654 Nov 01 15:14 15654 Nov 06 14:19	0°ጤ 4°ጤ14'21	27°49'41	morning max el	15655 Oct 19 20:49 15655 Oct 31 05:34	16° ჲ 13'57 0° ጤ	27°57′26
morning max er			27°49'41	morning max el			27°57'26
asc. node	15654 Nov 06 14:19	4° ™ 14'21	27°49'41	morning max el asc. node	15655 Oct 31 05:34	0° M ₊	21°51′26
-	15654 Nov 06 14:19 15654 Nov 25 15:45	4° ጤ 14'21 0° ዶ	27°49'41		15655 Oct 31 05:34 15655 Nov 18 08:12	0° ™ 0° ⊀ ″	2/*5//26
asc. node	15654 Nov 06 14:19 15654 Nov 25 15:45 15654 Dec 03 19:22	4° ጤ 14'21 0° ҂ 14° ҂ 745'44	27°49'41	asc. node	15655 Oct 31 05:34 15655 Nov 18 08:12 15655 Nov 20 16:17	0° M 0° ⊀ ¹ 4° ⊀ ³33'38	1.31643 AU
asc. node	15654 Nov 06 14:19 15654 Nov 25 15:45 15654 Dec 03 19:22 15654 Dec 08 22:36	4°M14'21 0°♂ 14°√45'44 25°√10'51	27°49'41 1.31088 AU	asc. node morning set	15655 Oct 31 05:34 15655 Nov 18 08:12 15655 Nov 20 16:17 15655 Nov 22 21:48	0° M 0° ⊀ 4° ⊀ 33'38 9° ⊀ 03'34	
asc. node morning set	15654 Nov 06 14:19 15654 Nov 25 15:45 15654 Dec 03 19:22 15654 Dec 08 22:36 15654 Dec 11 04:43	4°M14'21 0°ダ 14°ダ45'44 25°ダ10'51 0°る		asc. node morning set	15655 Oct 31 05:34 15655 Nov 18 08:12 15655 Nov 20 16:17 15655 Nov 22 21:48	0° M 0° ⊀ 4° ⊀ 33'38 9° ⊀ 03'34	
asc. node morning set	15654 Nov 06 14:19 15654 Nov 25 15:45 15654 Dec 03 19:22 15654 Dec 08 22:36 15654 Dec 11 04:43	4°M14'21 0°ダ 14°ダ45'44 25°ダ10'51 0°る		asc. node morning set max. Earth dist.	15655 Oct 31 05:34 15655 Nov 18 08:12 15655 Nov 20 16:17 15655 Nov 22 21:48 15655 Nov 28 05:48	0° M 0° X 4° X 33'38 9° X 03'34 20° X 21'03	1.31643 AU
asc. node morning set max. Earth dist.	15654 Nov 06 14:19 15654 Nov 25 15:45 15654 Dec 03 19:22 15654 Dec 08 22:36 15654 Dec 11 04:43 15654 Dec 15 01:53	4°№14'21 0°♂ 14°♂45'44 25°♂10'51 0°♂ 8°♂32'44	1.31088 AU	asc. node morning set max. Earth dist.	15655 Oct 31 05:34 15655 Nov 18 08:12 15655 Nov 20 16:17 15655 Nov 22 21:48 15655 Nov 28 05:48 15655 Nov 30 09:22	0° M 0° ₹ 4° ₹33'38 9° ₹03'34 20° ₹21'03	1.31643 AU 1°19'28
asc. node morning set max. Earth dist. superior conj	15654 Nov 06 14:19 15654 Nov 25 15:45 15654 Dec 03 19:22 15654 Dec 08 22:36 15654 Dec 11 04:43 15654 Dec 15 01:53	4°M14'21 0°ダ 14°ダ45'44 25°ダ10'51 0°उ 8°♂32'44	1.31088 AU 1°31'24	asc. node morning set max. Earth dist.	15655 Oct 31 05:34 15655 Nov 18 08:12 15655 Nov 20 16:17 15655 Nov 22 21:48 15655 Nov 28 05:48 15655 Nov 30 09:22 15655 Nov 30 07:14	0° M. 0° \$\vec{A}\$ 4° \$\vec{A}\$ 33'38 9° \$\vec{A}\$ 03'34 20° \$\vec{A}\$ 21'03 25° \$\vec{A}\$ 03'31 24° \$\vec{A}\$ 51'46	1.31643 AU 1°19'28
asc. node morning set max. Earth dist. superior conj minimum elong	15654 Nov 06 14:19 15654 Nov 25 15:45 15654 Dec 03 19:22 15654 Dec 08 22:36 15654 Dec 11 04:43 15654 Dec 15 01:53 15654 Dec 16 00:04 15654 Dec 15 22:36	4°M14'21 0°ダ 14°ダ45'44 25°ダ10'51 0°℧ 8°℧32'44 10°℧36'29 10°℧28'18	1.31088 AU 1°31'24	asc. node morning set max. Earth dist. superior conj minimum elong	15655 Oct 31 05:34 15655 Nov 18 08:12 15655 Nov 20 16:17 15655 Nov 22 21:48 15655 Nov 28 05:48 15655 Nov 30 09:22 15655 Nov 30 07:14 15655 Dec 02 14:59	0°M. 0°\$\delta\$ 4°\$\delta\$33'38 9°\$\delta\$03'34 20°\$\delta\$21'03 25°\$\delta\$03'31 24°\$\delta\$51'46 0°\$\delta\$	1.31643 AU 1°19'28
asc. node morning set max. Earth dist. superior conj minimum elong	15654 Nov 06 14:19 15654 Nov 25 15:45 15654 Dec 03 19:22 15654 Dec 08 22:36 15654 Dec 11 04:43 15654 Dec 15 01:53 15654 Dec 16 00:04 15654 Dec 15 22:36 15654 Dec 22 16:45	4°№14'21 0°♂ 14°♂45'44 25°♂10'51 0°℧ 8°℧32'44 10°℧36'29 10°℧28'18 25°℧25'52	1.31088 AU 1°31'24	asc. node morning set max. Earth dist. superior conj minimum elong	15655 Oct 31 05:34 15655 Nov 18 08:12 15655 Nov 20 16:17 15655 Nov 22 21:48 15655 Nov 28 05:48 15655 Nov 30 09:22 15655 Nov 30 07:14 15655 Dec 02 14:59 15655 Dec 07 03:06	0° M. 0° \$\times^4\$ 4° \$\times^3 3'38 9° \$\times^0 3'34 20° \$\times^2 21'03 25° \$\times^0 3'31 24° \$\times^5 5'46 0° \$\times^6\$ 9° \$\times 53'47	1.31643 AU 1°19'28
asc. node morning set max. Earth dist. superior conj minimum elong evening rise	15654 Nov 06 14:19 15654 Nov 25 15:45 15654 Dec 03 19:22 15654 Dec 08 22:36 15654 Dec 11 04:43 15654 Dec 15 01:53 15654 Dec 16 00:04 15654 Dec 15 22:36 15654 Dec 22 16:45 15654 Dec 24 20:16	4°№14'21 0°¾ 14°¾45'44 25°¾10'51 0°♂ 8°♂32'44 10°♂36'29 10°♂28'18 25°♂25'52 0°≈	1.31088 AU 1°31'24	asc. node morning set max. Earth dist. superior conj minimum elong evening rise	15655 Oct 31 05:34 15655 Nov 18 08:12 15655 Nov 20 16:17 15655 Nov 22 21:48 15655 Nov 28 05:48 15655 Nov 30 09:22 15655 Nov 30 07:14 15655 Dec 02 14:59 15655 Dec 07 03:06 15655 Dec 17 06:07	0° M. 0° \$\tilde{\mathrm{A}}\$ 4° \$\tilde{\mathrm{A}}\$33'38 9° \$\tilde{\mathrm{A}}\$03'34 20° \$\tilde{\mathrm{A}}\$21'03 25° \$\tilde{\mathrm{A}}\$03'31 24° \$\tilde{\mathrm{A}}\$51'46 0° \$\tilde{\mathrm{C}}\$ 9° \$\tilde{\mathrm{C}}\$53'47 0° \$\implies\$	1.31643 AU 1°19'28
asc. node morning set max. Earth dist. superior conj minimum elong evening rise	15654 Nov 06 14:19 15654 Nov 25 15:45 15654 Dec 03 19:22 15654 Dec 08 22:36 15654 Dec 11 04:43 15654 Dec 15 01:53 15654 Dec 16 00:04 15654 Dec 15 22:36 15654 Dec 22 16:45 15654 Dec 24 20:16 15655 Jan 05 05:50	4°M14'21 0° ¾ 14° ¾ 45'44 25° ¾ 10'51 0° ♂ 8° ♂ 32'44 10° ♂ 36'29 10° ♂ 28'18 25° ♂ 25'52 0° ≈ 21° ≈ 21'15	1.31088 AU 1°31'24 1°32'09	asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node	15655 Oct 31 05:34 15655 Nov 18 08:12 15655 Nov 20 16:17 15655 Nov 22 21:48 15655 Nov 28 05:48 15655 Nov 30 09:22 15655 Nov 30 07:14 15655 Dec 02 14:59 15655 Dec 07 03:06 15655 Dec 17 06:07 15655 Dec 23 02:42	0° M. 0° 🖈 4° 🖈 33'38 9° 🖈 03'34 20° 🕏 21'03 25° 🕏 03'31 24° 🕏 51'46 0° 💍 9° ♂ 553'47 0° ≈ 9° ≈ 28'20	1.31643 AU 1°19'28 1°20'02

evening set	15656 Jan 20 05:05	26°≈31'16		retrograde	15656 Dec 25 17:38	7°≈04'34	
min. Earth dist.	15656 Jan 25 19:56	23° ≈ 40′10	0.55797 AU	evening set	15656 Dec 29 16:11	6°≈30'42	
inferior conj	15656 Jan 28 01:43	22° ≈ 17'18		min. Earth dist.	15657 Jan 06 02:27	3° ≈ 06'50	0.54672 AU
minimum elong	15656 Jan 28 10:07	22° ≈ 04'20	5°19'03	inferior conj	15657 Jan 07 00:40	2° ≈ 35'23	
morning rise	15656 Feb 05 17:11	18° ≈ 16′00		minimum elong	15657 Jan 07 02:17	2° ≈ 33'06	5°59'38
direct	15656 Feb 08 00:28	18° ≈ 01'53			15657 Jan 11 23:49	30°Ŗる	
asc. node	15656 Feb 16 14:36	21° ≈ 34'17		morning rise	15657 Jan 15 13:37	28° ⋜ 47'03	
morning max el	15656 Feb 18 02:38	22°≈55'29	19°44'28	direct	15657 Jan 18 14:46	28° る 25'43	
	15656 Feb 23 20:44	0° ∀			15657 Jan 24 19:15	0° ≈	
morning set	15656 Mar 06 14:33	21° ¥ 18'33		morning max el	15657 Jan 30 07:13	4° ≈ 03'25	21°08'22
	15656 Mar 10 21:27	0° Y		asc. node	15657 Feb 02 11:57	7° ≈ 31'28	
					15657 Feb 16 01:10	0° ℋ	
superior conj	15656 Mar 14 12:50	7° Ƴ 16'56	0°46'13	morning set	15657 Feb 18 23:15	5° ¥ 59'31	
minimum elong	15656 Mar 14 15:11	7° Y 28'36	0°45'49				
desc. node	15656 Mar 20 04:02	18° Ƴ 06′29		superior conj	15657 Feb 26 07:10	21°) 19′34	1°08'46
max. Earth dist.	15656 Mar 20 18:17	19° Ƴ 12'42	1.37465 AU	minimum elong	15657 Feb 26 09:43	21°) 32′41	1°08'38
evening rise	15656 Mar 24 10:55	25° Ƴ 54'46			15657 Mar 02 14:02	0° Y	
	15656 Mar 26 18:53	0°8		max. Earth dist.	15657 Mar 03 03:35	1° Y ′06′53	1.35328 AU
	15656 Apr 15 03:23	$\Pi^{\circ}0$		evening rise	15657 Mar 07 03:29	8° Ƴ 46'57	
evening max el	15656 Apr 28 21:44	16° Ⅲ 37′21	25°18'42	desc. node	15657 Mar 07 00:36	8° Y 33'27	
retrograde	15656 May 11 01:36	23° Ⅱ 40′30			15657 Mar 19 10:17	$_{0\circ}$ 8	
asc. node	15656 May 14 11:38	22° I 52'02			15657 Apr 11 00:41	$\Pi^{\circ}0$	
evening set	15656 May 16 22:48	21° Ⅱ 12'53		evening max el	15657 Apr 11 11:16	0° Ⅲ 26′05	26°25'15
min. Earth dist.	15656 May 21 06:41	16° Ⅱ 25'26	0.68045 AU	retrograde	15657 Apr 24 10:37	7° Ⅱ 49'28	
inferior conj	15656 May 22 14:28	14° Ⅱ 42'12	2°14'10	evening set	15657 Apr 30 17:56	5° Ⅱ 17'06	
minimum elong	15656 May 22 12:19	14° Ⅱ 49'13	2°12'47	asc. node	15657 May 01 08:51	4° Ⅱ 45'11	
morning rise	15656 May 28 02:13	8° Ⅱ 49'11		min. Earth dist.	15657 May 04 19:36	1° Ⅱ 04'57	0.66817 AU
direct	15656 May 31 15:58	7° Ⅱ 35'55			15657 May 05 17:06	30°R ∀	
morning max el	15656 Jun 07 15:12	11° Ⅱ 23'47	19°11'56	inferior conj	15657 May 06 16:21	28° 8 48'55	1°33'51
desc. node	15656 Jun 16 04:51	22° I I03'34		minimum elong	15657 May 06 14:21	28° 8 55'01	1°32'29
greatest brilliancy	15656 Jun 20 10:38		-0.7m	morning rise	15657 May 12 11:46	23° 8 07'07	
8	15656 Jun 21 14:57	0°ಅ	**,*==	direct	15657 May 15 14:56	22° 8 12'00	
morning set	15656 Jul 01 17:09	15° © 23'29		morning max el	15657 May 22 02:17	25° 8 37'40	18°26'20
	15656 Jul 11 03:38	0°Ω			15657 May 25 22:14	0°II	
max. Earth dist.	15656 Jul 14 21:50		1.45500 AU	desc. node	15657 Jun 03 01:50	11° Ⅱ 46'44	
max. Earth dist.	15050 341 11 21.50	3 0032 10	1.13300710	morning set	15657 Jun 11 15:20	25° I I12'58	
superior conj	15656 Jul 18 00:06	10° Ω 44'27	-2°12'03	morning sec	15657 Jun 14 16:07	0°95	
minimum elong	15656 Jul 18 03:39	10° £ 58′27	2°12'39		15057 5411 11 10.07	ů O	
minimum ciong	15656 Jul 30 00:05	0° m)	2 123)	superior conj	15657 Jun 27 09:36	19° © 55'50	-2°11'04
evening rise	15656 Aug 01 15:51	4° m) 20'41		minimum elong	15657 Jun 27 05:23	19° © 39'26	2°11'47
asc. node	15656 Aug 10 11:33	18° m) 42'21		max. Earth dist.	15657 Jun 27 17:23	20°526'13	1.45975 AU
ase. Houe	15656 Aug 18 06:29	0° ت 0°		max. Lartii dist.	15657 Jul 03 20:34	0°Ω	1.43773710
evening max el	15656 Aug 20 17:27	ა _ 2° ჲ 44'20	18°16'40	evening rise	15657 Jul 13 06:36	14° Ω 45'22	
retrograde	15656 Aug 27 02:22	6° ₽ 07'20	10 10 40	greatest brilliancy	15657 Jul 22 06:31	28°Ω50'39	-0.8m
evening set	15656 Aug 30 01:04	5° ≏ 19'48		greatest orimancy	15657 Jul 23 00:31	0° m)	-0.0111
inferior conj	15656 Sep 04 23:35	29° m ₂ 51'43	1°59'31	asc. node	15657 Jul 28 08:14	7° Mp 56'10	
minimum elong	15656 Sep 05 01:56	29° m) 44'54	1°58'44	evening max el	15657 Aug 04 05:23	16° Mp 30'42	18°48'32
minimum ciong	15656 Sep 04 20:43	30°R, M)	1 30 44	retrograde	15657 Aug 10 21:09	20° Mp 08'16	10 40 32
min. Earth dist.	15656 Sep 07 08:09	27° Mp 08'54	0.64407 AU	evening set	15657 Aug 14 05:08	19° Mp 04'30	
morning rise	15656 Sep 11 01:11	23° My 31'37	0.04407 AC	inferior conj	15657 Aug 19 18:56	13° M) 22'06	2°36'38
desc. node	15656 Sep 12 02:10	22° m/ 45'50		minimum elong	15657 Aug 19 20:59	13° m) 15'37	2°35'52
direct	15656 Sep 17 14:27	22 m/45 50 20° m/56'47		min. Earth dist.	15657 Aug 21 13:40	13 mg 13 37	0.66225 AU
morning max el	15656 Oct 01 07:14	20 m/5047 28° m/54'11	27020156	morning rise	15657 Aug 25 11:54	6° Mp 56'07	0.00223 AU
morning max er		-	27 28 30	•	•	-	
	15656 Oct 02 08:54	0° ሆ 0° 亚		desc. node direct	15657 Aug 29 23:36	4° Mp 30'16	
marning got	15656 Oct 24 02:19				15657 Aug 31 17:58	4° Mp 18'21	26°31'26
morning set	15656 Nov 05 12:21	22°M30'37		morning max el	15657 Sep 13 18:46	12° Mp 01'59	20 31 20
asc. node	15656 Nov 06 13:07	24°M33'39 0° ∡ 7			15657 Sep 28 04:56	ი∘ m 0∘ ত	
may Farth di-t	15656 Nov 09 05:18		1 20757 ATT	morning set	15657 Oct 16 16:59	0°肌 5°m 2452	
max. Earth dist.	15656 Nov 10 02:31	1° ∡ 750′09	1.32757 AU	morning set	15657 Oct 19 15:11	5°M24'52	1 2//05 411
aumoria '	15656 N 12 14 41	00.71.010	1901/27	max. Earth dist.	15657 Oct 23 13:28	12°M59'48	1.34405 AU
superior conj	15656 Nov 13 14:41	9° х 16'18	1°01'27	asc. node	15657 Oct 24 09:52	14° M 41'02	
minimum elong	15656 Nov 13 12:20	9°×703'43	1°01'52	aumani '	15657 0-4 20 12 27	220M 00140	0027127
evening rise	15656 Nov 20 13:56	24° ₹ 21′26		superior conj	15657 Oct 28 13:37	23°M08'49	0°37'27
	15050 NI 22 00 05	00 			15/57 0 4 20 11 44		
1 1	15656 Nov 23 06:05	0°る		minimum elong	15657 Oct 28 11:44	22°M59'06	0°37'46
desc. node	15656 Dec 08 23:40	26° පි 31'41			15657 Oct 31 20:05	0° ∡ ¹	0°37'46
desc. node evening max el			22044/20	minimum elong evening rise			0°37'46

evening max el	15657 Nov 24 09:38	10°る48'15	21°07'43	evening rise	15658 Oct 20 05:09	22°M55'49	
desc. node	15657 Nov 25 20:43	12° る 09'42		<i>8</i> 11	15658 Oct 23 17:43	0° ∡ ¹	
retrograde	15657 Dec 06 03:53	16° ප 37'51		evening max el	15658 Nov 06 15:13	21° х ⁴40′16	19°48'51
evening set	15657 Dec 08 20:47	16° ට 20'42		desc. node	15658 Nov 12 17:54	25° ∡ ¹56'41	
inferior conj	15657 Dec 17 15:35	12° る 29'23	-5°40'37	retrograde	15658 Nov 16 18:20	26° ∡ ¹43'33	
minimum elong	15657 Dec 17 08:18	12° る 39'42	5°38'40	evening set	15658 Nov 18 18:46	26° ∡ ³32′27	
min. Earth dist.	15657 Dec 18 08:02	12° පි 06'06	0.54430 AU	inferior conj	15658 Nov 27 12:53	22° ∡ ³31'44	-4°25'36
morning rise	15657 Dec 25 20:05	8° る 37'58		minimum elong	15658 Nov 27 02:55	22° х 47′08	4°21'47
direct	15657 Dec 29 22:09	8° ට 01'58		min. Earth dist.	15658 Nov 29 15:24	21° ∡ 13'47	0.55132 AU
morning max el	15658 Jan 11 22:17	14° る 21'19	22°51'16	morning rise	15658 Dec 05 09:37	18° ∡ 18'27	
asc. node	15658 Jan 20 09:14	24° る 41'35		direct	15658 Dec 10 11:55	17° ∡ "21′15	
	15658 Jan 23 17:40	0° ≈		morning max el	15658 Dec 24 06:54	24° ∡ °13'41	24°41'01
morning set	15658 Feb 03 10:33	20° ≈ 43'55			15658 Dec 29 13:01	0°ප	
	15658 Feb 07 17:53	0° ∀		asc. node	15659 Jan 07 06:28	12° る 46'52	
					15659 Jan 16 08:58	0° ≈	
superior conj	15658 Feb 10 09:25		1°24'48	morning set	15659 Jan 18 22:30	5° ≈ 25'41	
minimum elong	15658 Feb 10 11:27	5° ¥ 52'48	1°25'02				
max. Earth dist.	15658 Feb 13 19:38	12° ¥ 55'50	1.33537 AU	superior conj	15659 Jan 25 16:52	20°≈15'42	1°34'30
evening rise	15658 Feb 18 09:47	22°) 12'19		minimum elong	15659 Jan 25 18:00	20°≈21'57	1°35'02
desc. node	15658 Feb 21 21:13	28°) € 51'32		max. Earth dist.	15659 Jan 27 19:26	24°≈51'46	1.32195 AU
	15658 Feb 22 11:57	0° Υ			15659 Jan 30 04:55	0°) {	
	15658 Mar 13 04:24	0°8	25012100	evening rise	15659 Feb 02 02:32	6°) €02'05	
evening max el	15658 Mar 25 00:49	14° 8 01'00	27°13'09	desc. node	15659 Feb 08 17:51	18°) 55'16	
retrograde	15658 Apr 07 13:43	21° 8 32'30		·	15659 Feb 15 02:24	0°Υ 270 0 010124	27025112
evening set	15658 Apr 14 04:49	19° 8 01'45	0.65101.411	evening max el	15659 Mar 07 12:59	27° Y 10'24	27°35'13
min. Earth dist.	15658 Apr 18 01:52	15° 8 22'09	0.65181 AU		15659 Mar 10 17:59	0°8 4°840'00	
asc. node	15658 Apr 18 06:08	15° 8 10'34 12° 8 42'44	0°40'58	retrograde	15659 Mar 21 09:37	2° 8 18'03	
inferior conj minimum elong	15658 Apr 20 11:04 15658 Apr 20 09:59	12 8 42 44	0°40'02	evening set	15659 Mar 28 05:06 15659 Mar 31 01:04	2 O18 03 30°RΥ	
morning rise	15658 Apr 26 16:56	7° 8 13'52	0 40 02	min. Earth dist.	15659 Mar 31 23:38	29° Y ′06′50	0.63211 AU
direct	15658 Apr 29 10:35	6° 8 34'09		inferior conj	15659 Apr 03 19:46	26°Υ16'18	
morning max el	15658 May 05 18:00	9° 8 50'12	17°57'37	minimum elong	15659 Apr 03 20:36	26° Υ 14'14	0°25'18
morning max ci	15658 May 19 19:53	0°Ⅱ	17 37 37	asc. node	15659 Apr 05 03:30	24° Υ 57'58	0 23 10
desc. node	15658 May 20 22:44	1° I I50'00		morning rise	15659 Apr 10 14:42	21° Υ '02'47	
morning set	15658 May 23 16:38	6° Ⅱ 20'40		direct	15659 Apr 13 00:08	20° Υ 35'11	
morning sec	13030 May 25 10.50	0 1120 10		morning max el	15659 Apr 19 11:39	23° Y '53'08	17°46'20
superior conj	15658 Jun 06 23:03	29° Ⅱ 23'46	-1°50'46	morning man er	15659 Apr 24 10:54	0°8	1, 1020
minimum elong	15658 Jun 06 14:26	28° Ⅱ 49'40	1°50'54	morning set	15659 May 05 19:50	18° 8 42'03	
8	15658 Jun 07 08:13	0°9		desc. node	15659 May 07 19:34	22° 8 07'25	
max. Earth dist.	15658 Jun 10 13:23	5° © 03'28	1.45698 AU		15659 May 12 10:25	0°II	
evening rise	15658 Jun 23 00:25	24°520'59			·		
-	15658 Jun 26 17:01	$0^{\circ}\Omega$		superior conj	15659 May 18 06:41	9° Ⅱ 43'51	-1°17'23
greatest brilliancy	15658 Jul 06 19:06	15° Ω 09'44	-0.6m	minimum elong	15659 May 17 23:25	9° Ⅱ 14'01	1°17'14
asc. node	15658 Jul 15 04:58	26° Ω 40'36		max. Earth dist.	15659 May 24 07:54	19° Ⅲ 30′27	1.44705 AU
	15658 Jul 18 03:35	0° m)			15659 May 31 00:23	0ං ම	
evening max el	15658 Jul 18 12:34	0° m 22'41	19°36'49	evening rise	15659 Jun 02 11:06	3° 5 46'11	
retrograde	15658 Jul 25 19:09	4° Mp 26'59			15659 Jun 20 04:20	0 $^{\circ}$ Ω	
evening set	15658 Jul 29 13:03	3° Mp 05'44		evening max el	15659 Jul 01 13:53	14° Ω 16′32	20°39'35
	15658 Aug 01 16:35	30° R €		asc. node	15659 Jul 02 01:49	14° Ω 45'43	
inferior conj	15658 Aug 03 21:25	27° Ω 10′30	2°58'54	retrograde	15659 Jul 09 18:10	18° Ω 58′03	
minimum elong	15658 Aug 03 22:43	27° Ω 06′10	2°58'12	evening set	15659 Jul 13 22:40	17° Ω 19′03	
min. Earth dist.	15658 Aug 05 02:05	25° Ω 35'07	0.67640 AU	inferior conj	15659 Jul 19 04:30	11° Ω 12'10	3°08'29
morning rise	15658 Aug 09 07:51	20° Ω 44'36		minimum elong	15659 Jul 19 04:51	11° Ω 10'57	3°07'47
direct	15658 Aug 15 04:00	18° Ω 12'11		min. Earth dist.	15659 Jul 19 19:24	10° Ω 20'46	0.68595 AU
desc. node	15658 Aug 16 21:02	18° Ω 23'36		morning rise	15659 Jul 24 10:44	4° Ω 50'13	
morning max el	15658 Aug 27 05:44	25° Ω 25'53	25°14'01	direct	15659 Jul 29 19:15	2° Ω 29'58	
	15658 Aug 31 09:46	0° m)		desc. node	15659 Aug 03 18:25	4°Ω06'10	22046126
	15658 Sep 21 16:46	0° <u>ი</u>		morning max el	15659 Aug 09 16:32	8° Ω 59'49	23°46'30
morning set	15658 Oct 02 02:29	17° £ 36'51	1 26511 411	manmis	15659 Aug 26 05:52	0° M)	
max. Earth dist.	15658 Oct 05 15:26	24° ₽ 04'22	1.36511 AU	morning set	15659 Sep 13 18:03	28° m 57'17	
ogo mad-	15658 Oct 08 18:40	0°M		mov Ftl- 1'	15659 Sep 14 08:48	0° ⊽	1 20007 411
asc. node	15658 Oct 11 06:33	4°M51'15		max. Earth dist.	15659 Sep 17 14:02	5° £ 34'13	1.38886 AU
superior conj	15658 Oct 12 03:13	6°M33′23	0°07'50	superior conj	15659 Sep 25 03:56	19° ≙ 21'54	-0°26'22
minimum elong	15658 Oct 12 02:43	6°M30′52	0°08'11	minimum elong	15659 Sep 25 05:49	19° ≏ 30'47	0°25'50
behind sun begin	15658 Oct 11 21:09	6° ™ 03'19		asc. node	15659 Sep 28 03:12	25° ≙ 01'08	
behind sun end	15658 Oct 12 08:16	6° M 58′29			15659 Sep 30 16:53	0° M .	

evening rise	15659 Oct 04 04:50	6°M50'41		asc. node	15660 Sep 13 23:50	15° £ 06'33	
evening risc	15659 Oct 17 12:53	0° %		evening rise	15660 Sep 16 18:55	20° £ 19'35	
evening max el	15659 Oct 20 10:48	3° ∡ 722'15	18°52'01	evening rise	15660 Sep 22 00:50	0°M	
retrograde	15659 Oct 29 00:52	7°×7'42'04	10 32 01	evening max el	15660 Oct 02 16:52	15°M48'13	18°17'00
evening set	15659 Oct 30 22:18	7° ∡ 730'14		retrograde	15660 Oct 10 02:57	19°MJ35'10	10 17 00
desc. node	15659 Oct 30 15:08	7° ∡ ³33'38		evening set	15660 Oct 12 04:41	19°M18'05	
inferior conj	15659 Nov 08 04:04	3° ∡ 10'36	-2°43'08	desc. node	15660 Oct 16 12:28	17° ML 07'07	
minimum elong	15659 Nov 07 21:21	3° ∡ ¹22'34		inferior conj	15660 Oct 19 17:05	14°M37'05	-1°01'23
min. Earth dist.	15659 Nov 11 03:30	1° ∡ ¹03'38	0.56641 AU	minimum elong	15660 Oct 19 14:48	14°M41'52	
	15659 Nov 12 18:06	30°RML		min. Earth dist.	15660 Oct 22 23:21	11° M 54'37	0.58681 AU
morning rise	15659 Nov 15 17:28	28°M22'24		morning rise	15660 Oct 26 21:28	9° M 12′15	
direct	15659 Nov 21 14:32	26°M59'59		direct	15660 Nov 02 06:58	7°M23'13	
	15659 Nov 30 11:06	0° ∡ ¹		morning max el	15660 Nov 16 14:06	15°M02'28	27°27'28
morning max el	15659 Dec 05 18:30	4° ∡ 18′03	26°18'50		15660 Nov 28 16:50	0° ∡ ″	
	15659 Dec 24 06:54	ರ°0		asc. node	15660 Dec 11 00:43	20° ∡ 50′19	
asc. node	15659 Dec 25 03:38	1° る 33'25			15660 Dec 15 15:12	5°0	
morning set	15660 Jan 03 09:21	20° ට 00'10		morning set	15660 Dec 17 17:17	4° ට 22'53	
	15660 Jan 07 22:30	0° ≈					
				superior conj	15660 Dec 24 14:50	19° る 33'41	1°35'33
superior conj	15660 Jan 10 03:19	4° ≈ 54'44	1°38'02	minimum elong	15660 Dec 24 13:53	19° る 28'24	1°36'20
minimum elong	15660 Jan 10 03:24	4° ≈ 55'13	1°38'47	max. Earth dist.	15660 Dec 24 08:54	19° る 00'25	1.31024 AU
max. Earth dist.	15660 Jan 11 00:58	6° ≈ 55'22	1.31349 AU		15660 Dec 29 07:22	0°≈	
evening rise	15660 Jan 17 03:00	20° ≈ 09'25		evening rise	15660 Dec 31 08:53	4° ≈ 28'51	
	15660 Jan 21 23:28	0°) €		desc. node	15661 Jan 12 11:16	27° ≈ 54'01	
desc. node	15660 Jan 26 14:31	8°) 38'40			15661 Jan 13 17:18	0°)	
	15660 Feb 09 09:10	0° Y		evening max el	15661 Jan 29 22:50	21°) €22'00	26°40'22
evening max el	15660 Feb 17 21:14	9° Ƴ 40'57	27°25'17	retrograde	15661 Feb 12 22:50	28°) 33′14	
retrograde	15660 Mar 02 21:04	17° Y ′02'37		evening set	15661 Feb 19 10:01	26°) 49'49	
evening set	15660 Mar 09 15:55	14° Ƴ 56'37		min. Earth dist.	15661 Feb 23 12:31	24° 米 11′53	0.58789 AU
min. Earth dist.	15660 Mar 13 11:17		0.61023 AU	inferior conj	15661 Feb 26 17:02	21° ¥ 45′27	
inferior conj	15660 Mar 16 15:00	9° Y 20′25		minimum elong	15661 Feb 27 00:20	21° ∺ 31′26	3°10'09
minimum elong	15660 Mar 16 18:48	9° Y 12'01	1°43'08	morning rise	15661 Mar 06 18:05	17°) 11'34	
asc. node	15660 Mar 22 00:55	5° Y 15'33		direct	15661 Mar 08 17:31	16°) 57'42	
morning rise	15660 Mar 24 00:56	4° Υ 25'22		asc. node	15661 Mar 08 22:21	16° ¥ 57'51	
direct	15660 Mar 26 03:56	4° Υ 06'22		morning max el	15661 Mar 16 15:35	20°) 52'47	18°19'17
morning max el	15660 Apr 02 04:02	7° Ƴ 37'17	17°53'07		15661 Mar 23 12:47	0°Υ	
_	15660 Apr 16 16:48	0°8		morning set	15661 Apr 01 08:58	15° Y 55'15	
morning set	15660 Apr 17 19:09	1° 8 59'06			15661 Apr 08 20:29	0°B	
desc. node	15660 Apr 23 16:17	12° 8 33'52			15661 4 10 10 05	20 4 2 2 2 2	0000100
	15660 A 20 12 51	210 00026	0020107	superior conj	15661 Apr 10 19:05	3° 8 33'32	
superior conj	15660 Apr 28 13:51	21° 8 08'36		minimum elong	15661 Apr 10 18:53	3° 8 32'40 2° 8 59'27	0°02'30
minimum elong	15660 Apr 28 10:20	20° 8 53′28 0° Ⅱ	0°39'10	behind sun begin behind sun end	15661 Apr 10 11:36	4° 8 05'48	
max. Earth dist.	15660 May 03 19:30	0°Щ 3°Щ31′26	1.43096 AU	desc. node	15661 Apr 11 02:11 15661 Apr 10 12:57	3° 8 05'36	
evening rise	15660 May 05 22:48 15660 May 12 06:49	13° Ⅱ 40'42	1.43090 AU	max. Earth dist.	15661 Apr 18 08:48	16° 8 53'29	1.41044 AU
evening risc	15660 May 22 24:00	0°95		evening rise	15661 Apr 22 21:35	24° 8 27'34	1.41044 AU
evening max el	15660 Jun 13 09:27	28°909'37	21°53'38	evening rise	15661 Apr 26 07:57	0°Ⅱ	
evening max er	15660 Jun 15 08:39	0°Ω	21 33 36		15661 May 16 20:15	0₀ ©	
asc. node	15660 Jun 17 22:45	1° Ω 57'38		evening max el	15661 May 27 00:53	12° © 02'59	23°14'09
retrograde	15660 Jun 22 16:25	3° Ω 35'05		asc. node	15661 Jun 04 19:47	18°900'11	23 1.05
evening set	15660 Jun 27 08:06	1° Ω 39'10		retrograde	15661 Jun 06 12:31	18°9512'42	
8-11	15660 Jun 29 00:25	30° ℝ ∽		evening set	15661 Jun 11 15:41	16° © 01'54	
inferior conj	15660 Jul 02 13:57	25° © 22'03	3°06'52	inferior conj	15661 Jun 16 23:49	9° 5 36'42	2°54'44
minimum elong	15660 Jul 02 13:21	25°524'09	3°06'01	minimum elong	15661 Jun 16 22:24	9°5541'37	
min. Earth dist.	15660 Jul 02 15:31	25°9516'35	0.69064 AU	min. Earth dist.	15661 Jun 16 12:23	10° © 16'14	0.69045 AU
morning rise	15660 Jul 07 18:26	19° © 06'22		morning rise	15661 Jun 22 05:04	3° © 28'44	
direct	15660 Jul 12 14:36	17° © 02'56		direct	15661 Jun 26 12:55	1°5944'32	
desc. node	15660 Jul 20 15:45	21°512'20		morning max el	15661 Jul 04 22:35	6° © 33'34	20°55'38
morning max el	15660 Jul 22 05:12	22°5641'50	22°17'50	desc. node	15661 Jul 07 12:59	9° © 20'55	
	15660 Jul 28 14:04	$0^{\circ}\Omega$			15661 Jul 22 19:24	$0^{\circ}\Omega$	
	15660 Aug 18 13:14	0° m y		morning set	15661 Aug 04 03:23	18° Ω 39'53	
morning set	15660 Aug 24 10:14	9° m 17'33			15661 Aug 11 07:15	0° m	
max. Earth dist.	15660 Aug 29 15:27	17° m 52'14	1.41250 AU	max. Earth dist.	15661 Aug 11 22:39	1° m 02'07	1.43326 AU
	15660 Sep 05 16:32	0∘ ⊽					
				superior conj	15661 Aug 18 21:21	12° m 29'44	-1°37'29
superior conj	15660 Sep 06 11:24	1° ≏ 23'42	-1°02'52	minimum elong	15661 Aug 19 04:53	13° m 01'27	1°36'58
minimum elong	15660 Sep 06 16:25	1° ≏ 46′00	1°02'10		15661 Aug 28 23:58	0∘ ⊽	

max. Earth dist.

15662 Jul 25 11:54

14°**Ω**55'47 1.44890 AU

15663 Jul 09 22:49

superior conj

1°\$\O259'32 -2°14'08

minimum elong	15663 Jul 09 23:08	2° Ω 00'49	2°14'56		15664 Jun 30 09:42	0° Ω	
evening rise	15663 Jul 25 05:20	26°Ω13'05	2 1430	evening rise	15664 Jul 04 10:11	6° Ω 14'19	
e vennig 1150	15663 Jul 27 13:45	0° m)		greatest brilliancy	15664 Jul 15 14:44	23° Ω 27'31	-0.7m
asc. node	15663 Aug 05 13:44	14° m) 15'35		8	15664 Jul 20 01:23	0° m)	****
evening max el	15663 Aug 14 09:55	25° m) 54'54	18°28'15	asc. node	15664 Jul 22 10:28	3° m 18'02	
retrograde	15663 Aug 20 20:34	29° m 22'09		evening max el	15664 Jul 27 20:06	9° m 44'23	19°07'07
evening set	15663 Aug 23 23:14	28° m) 27'48		retrograde	15664 Aug 03 17:05	13° m) 31'40	
inferior conj	15663 Aug 29 17:38	22° m 53'34	2°17'13	evening set	15664 Aug 07 05:17	12° m/20'20	
minimum elong	15663 Aug 29 19:56	22° m/ 46'38	2°16'26	inferior conj	15664 Aug 12 16:22	6° m/32'08	2°47'44
min. Earth dist.	15663 Aug 31 20:25	20° m 21'41	0.65227 AU	minimum elong	15664 Aug 12 18:08	6° M 26′24	2°47'00
morning rise	15663 Sep 04 15:22	16° m 30'25		min. Earth dist.	15664 Aug 14 05:00	4° m 34′04	0.66884 AU
desc. node	15663 Sep 07 04:42	14° m 49'23		morning rise	15664 Aug 18 06:19	0° m 05'47	
direct	15663 Sep 11 02:07	13° m 53'14			15664 Aug 18 09:00	30°R Ω	
morning max el	15663 Sep 24 12:37	21° m)45'57	27°07'31	direct	15664 Aug 24 08:23	27° Ω 29'40	
	15663 Oct 01 17:37	0∘ ⊽		desc. node	15664 Aug 24 02:08	27° Ω 29'56	
	15663 Oct 21 16:24	0°M₊			15664 Aug 31 03:16	0° m)	
morning set	15663 Oct 30 02:05	15°M24'32		morning max el	15664 Sep 06 00:04	5° ™ 01'44	26°00'25
asc. node	15663 Nov 01 15:19	20°M25'57			15664 Sep 25 05:05	0∘ ⊽	
max. Earth dist.	15663 Nov 03 08:55	23°M56'08	1.33398 AU	morning set	15664 Oct 11 22:46	28° ഫ 01′20	
	15663 Nov 06 07:10	0° ∡ ¹			15664 Oct 13 00:20	0° M	
				max. Earth dist.	15664 Oct 15 15:58	5° M ₊01'45	1.35260 AU
superior conj	15663 Nov 07 12:17	2° ∡ ³33'39	0°52'02	asc. node	15664 Oct 18 12:03	10°M34'43	
minimum elong	15663 Nov 07 10:03	2° ∡ ¹21'47	0°52'22				
evening rise	15663 Nov 14 15:19	17° ∡ ¹49'18		superior conj	15664 Oct 21 07:38	16°M14'45	0°25'33
	15663 Nov 20 14:19	0°ಕ		minimum elong	15664 Oct 21 06:13	16°ML07'32	0°25'50
desc. node	15663 Dec 04 02:01	20° る 42'27			15664 Oct 27 22:52	0° ∡ ¹	
evening max el	15663 Dec 05 13:42	22° る 14'31	22°01'45	evening rise	15664 Oct 28 23:29	2° ∡ 107'52	
retrograde	15663 Dec 18 02:17	28° පි 26'10			15664 Nov 14 00:55	0°ಕ	
evening set	15663 Dec 21 11:32	28° る 00'42		evening max el	15664 Nov 16 10:52		20°31'29
inferior conj	15663 Dec 30 01:15	24° ろ 09'14		desc. node	15664 Nov 19 23:08	5° ට 36'03	
minimum elong	15663 Dec 29 22:46	24° ろ 12'42		retrograde	15664 Nov 27 12:49	8° る 09'49	
min. Earth dist.	15663 Dec 29 19:21	24°る17'29	0.54461 AU	evening set	15664 Nov 29 20:56	7° る 56'12	
morning rise	15664 Jan 07 10:51	20° る 21'56		inferior conj	15664 Dec 08 17:02	4° る 01'57	
direct	15664 Jan 10 22:33	19°る55'03		minimum elong	15664 Dec 08 07:38	4°る15'38	
morning max el	15664 Jan 23 05:23	25°る50'56	21°50'15	min. Earth dist.	15664 Dec 10 00:58	3°る15'30	0.54619 AU
	15664 Jan 27 00:32	0° ≈		morning rise	15664 Dec 16 18:05	0°る03'47	
asc. node	15664 Jan 28 14:24	2°≈01'22		1	15664 Dec 16 22:59	30°₹ ҂ 7	
morning set	15664 Feb 13 00:58	29°≈35'22		direct	15664 Dec 21 06:51	29° х 19'38	
	15664 Feb 13 05:39	0° ∀			15664 Dec 25 12:28	0°る	2202011.5
superior conj	15((4 E-1, 20, 04-2)	14° ¥ 44'06	1°16'22	morning max el	15665 Jan 03 16:30 15665 Jan 14 11:40	5°る53'23 19°る36'37	23-38-15
1 3	15664 Feb 20 04:26	14° X 56'39	1°16'22	asc. node		19 3 30 3 7 0 ≈	
minimum elong max. Earth dist.	15664 Feb 20 06:49 15664 Feb 24 10:11	23°\(\frac{14}{128}\)'02	1.34523 AU	marning sat	15665 Jan 20 11:19 15665 Jan 27 12:47	0°≈ 14°≈19'29	
max. Earm dist.	15664 Feb 27 17:34	23 π 2802 0° Υ	1.34323 AU	morning set	13003 Jan 2/ 12.4/	14 29	
evening rise	15664 Feb 28 15:38	1° Υ 46'03		superior conj	15665 Feb 03 09:10	29° ≈ 12'08	1°29'41
desc. node	15664 Mar 01 02:46	4° Υ 32'13		minimum elong	15665 Feb 03 10:52	29°≈21'16	1°30'03
desc. node	15664 Mar 16 04:50	0°8		minimum clong	15665 Feb 03 18:01	0° \	1 30 03
evening max el	15664 Apr 03 17:59	23° 8 35'32	26°48'23	max. Earth dist.	15665 Feb 06 05:48		1.32907 AU
	15664 Apr 12 11:09	0°Ⅱ	0	evening rise	15665 Feb 11 02:42	15° ∺ 22'25	
retrograde	15664 Apr 16 23:33	1° Ⅱ 02'48		desc. node	15665 Feb 15 23:22	24°) 44'48	
renograde	15664 Apr 21 03:57	30°R 8		dese. node	15665 Feb 18 20:46	0°Υ	
evening set	15664 Apr 23 10:35	28° 8 30'29			15665 Mar 10 21:08	0°8	
asc. node	15664 Apr 25 11:19	26° 8 39'53		evening max el	15665 Mar 17 07:05	7° 8 00'46	27°26'02
min. Earth dist.	15664 Apr 27 10:12	24° 8 32'34	0.66171 AU	retrograde	15665 Mar 30 23:36	14° 8 32'18	
inferior conj	15664 Apr 29 12:16	22° 8 05'37	1°13'02	evening set	15665 Apr 06 17:17	12° 8 04'09	
minimum elong	15664 Apr 29 10:33	22° 8 10'41	1°11'48	min. Earth dist.	15665 Apr 10 12:52	8° 8 37'36	0.64381 AU
morning rise	15664 May 05 11:46	16° 8 28'57		asc. node	15665 Apr 12 08:40	6° 8 41'17	
direct	15664 May 08 10:52	15° 8 40'34		inferior conj	15665 Apr 13 03:07	5° 8 51'41	0°14'30
morning max el	15664 May 14 19:24	19° 8 00'22	18°12'02	minimum elong	15665 Apr 13 02:42	5° 8 52'47	0°13'55
Ç	15664 May 23 06:50	0°II		transit middle	15665 Apr 13 02:42	5° 8 52'47	0°13'55
desc. node	15664 May 28 04:08	7° Ⅱ 35'54		transit begin	15665 Apr 13 01:11	5° 8 56'51	
morning set	15664 Jun 03 02:59	17° Ⅱ 07'16		transit end	15665 Apr 13 04:13	5° 8 48'43	
-	15664 Jun 11 04:50	0ංම		morning rise	15665 Apr 19 14:15	0° 8 29'17	
					15665 Apr 21 04:57	30° ₹Ƴ	
superior conj	15664 Jun 18 07:52	11° © 12'28	-2°04'34	direct	15665 Apr 22 04:19	29° Ƴ 55′06	
minimum elong	15664 Jun 18 01:02	10°5945'44	2°05'03		15665 Apr 23 03:41	$0^{\circ}S$	
max. Earth dist.	15664 Jun 20 02:52	14°900'25	1.45953 AU	morning max el	15665 Apr 28 12:22	3° 8 10'14	17°50'44
max. Larm dist.	130013411 20 02.32			-	•		

morning rise

morning max el

15666 Apr 03 07:43

15666 Apr 05 14:03

15666 Apr 12 05:58

14°**Y**08′15

13°Y44'51

17°**Υ**'07'01 17°46'56

morning rise

asc. node

direct

15667 Mar 17 11:24

15667 Mar 17 03:26

15667 Mar 19 12:15

27°**H** 16'22

27° **X**21'59

27°**)**€00'05

Section Sect		15667 Mar 26 03:30	0° Υ		morning max el	15668 Mar 09 04:48	13° ¥ 38'47	18°36'44
See node	•			18°01'43				
doct, node J5067 Apr 18 18 18 38 J634 S 1 minumen colors of	morning set	•			morning set	15668 Mar 25 04:57	9° Y ′19'03	
Septication		15667 Apr 14 01:07	0°8					
	desc. node	15667 Apr 18 18:28	8° 8 36'43		superior conj	15668 Apr 03 03:34	26° Ƴ 24'59	0°12'19
minimal color 1865 Apr 21 0221 1258 3701 0'223 A behind and case mode 1866 Apr 01 050 6"9"0"0"1 evening rise 1867 May 0 0520 0"T max. Earth dist. 1868 Apr 01 1929 9"5"4"2 1,4093 AU evening rise 1867 May 0 10:11 0"5"5 max. Earth dist. 1868 Apr 10 1929 9"5"4"2 1,4093 AU evening max 1867 May 0 20:11 0"5"5 cerming 1674 1258252 222732 1868 Apr 20 210 19"53943 18"58 Apr 20 210 19"53950 18"53 Apr 20 214 Ap					minimum elong	15668 Apr 03 04:23	26° Y ′28'49	0°11'53
minimal color 1865 Apr 21 0221 1258 3701 0'223 A behind and case mode 1866 Apr 01 050 6"9"0"0"1 evening rise 1867 May 0 0520 0"T max. Earth dist. 1868 Apr 01 1929 9"5"4"2 1,4093 AU evening rise 1867 May 0 10:11 0"5"5 max. Earth dist. 1868 Apr 10 1929 9"5"4"2 1,4093 AU evening max 1867 May 0 20:11 0"5"5 cerming 1674 1258252 222732 1868 Apr 20 210 19"53943 18"58 Apr 20 210 19"53950 18"53 Apr 20 214 Ap	superior conj	15667 Apr 21 14:18	13° 8 38'50	-0°23'01	behind sun begin	15668 Apr 02 23:41	26° Ƴ 06'54	
1966 1967 1967 1968 1968 1968 1968 1968 1969	minimum elong	15667 Apr 21 12:21	13° 8 30'11	0°23'13	_	-	26° Y ′50'43	
1566 May 0 10-20	•	=	26° 8 36'04	1.42268 AU		-	29° Ƴ 09'19	
Serial 1968 1969		•						
1665 May 20 20.11 0°92 2°2732 2°2732 1566 May 12 1170 1°253252 2°2732 1°25425 1°	avanina rica	•			may Earth dist	-		1 40003 ATT
Secondary 1.5667 Jun 6.1704 2.1923/52 2.27372 5.068 Jun 2.1923/52 2.27373 5.668 Jun 2.1923 3.688 Jun 2.1923 3.288 Jun 2.1923 3.288 Jun 3.668 Jun 3.1923 3.288 Jun 3.668 Jun 3.068 Jun 3.068 Jun 3.298 Jun 3.288	evening rise	-				-		1.400/3 AC
1965 1967 18 1968 19		•		22027122	evening rise			
Part	•			22°21'32		•		
						•		
Inferior conj 15667 Jun 26 1521 18°294'25 30'30'0 retrograde 15668 Jun 9 10 1501 11°294'19 retrogrammine 15667 Jun 26 1127 18°295'00 0.69116 AU min. Earth dist. 15668 Jun 10 10.47 3°290'31 2°427'24'27'46'46'27'46'46'27'46'27'46'46'27'46'27'46'46'27'46'46'27'46'46'27'46'46'46'46'46'46'46'46'46'46'46'46'46'	•	15667 Jun 16 12:17			•			23°48'58
minimar and mini	evening set	15667 Jun 21 08:46	25° © 06'06		asc. node	15668 May 29 22:10	11° © 43'55	
nine Earth dist 15667 Jun 16 126 7 Jun 1949 129523243 configure of the continue of	inferior conj	15667 Jun 26 15:21	18° © 45'25	3°03'00	retrograde	15668 May 30 06:51	11° 5 644'29	
Memoring max 1667 Jul 11 1949 1958 Jul 1947 1948 1948 Jul 15 123 1848 Jul 1	minimum elong	15667 Jun 26 14:22	18° © 48'48	3°02'04	evening set	15668 Jun 04 15:02	9° © 28'17	
airce Is667 Jul 16 10.49 10°93701 minimmellong 15668 Jun 19 23.08 3°90641 2°4171 meming maxel 15667 Jul 15 18.10 16°90819 16°90819 morning rise 15668 Jun 19 10.00 2°115641 15667 Aug 16 14.04 0°81427 morning set 15667 Aug 16 14.04 0°84274 morning set 15667 Aug 16 14.04 0°84274 section of morning set 15667 Aug 16 14.04 0°84274 section of morning set 15667 Aug 21 7.58 10°84202 142185 AU desc. node 15668 Jul 19 13.43 0°12 4°92380 0°24040 superior conj 15667 Aug 30 10.51 22°89319 1°1807 morning set 15668 Jul 19 13.43 0°12 4°9141 AU 4°914 AU	min. Earth dist.	15667 Jun 26 11:27	18° © 59'00	0.69116 AU	min. Earth dist.	15668 Jun 09 07:53	3° © 58'33	0.68894 AU
airce Is667 Jul 16 10.49 10°93701 minimmellong 15668 Jun 19 23.08 3°90641 2°4171 meming maxel 15667 Jul 15 18.10 16°90819 16°90819 morning rise 15668 Jun 19 10.00 2°115641 15667 Aug 16 14.04 0°81427 morning set 15667 Aug 16 14.04 0°84274 morning set 15667 Aug 16 14.04 0°84274 section of morning set 15667 Aug 16 14.04 0°84274 section of morning set 15667 Aug 21 7.58 10°84202 142185 AU desc. node 15668 Jul 19 13.43 0°12 4°92380 0°24040 superior conj 15667 Aug 30 10.51 22°89319 1°1807 morning set 15668 Jul 19 13.43 0°12 4°9141 AU 4°914 AU	morning rise	15667 Jul 01 19:49	12° © 32'43		inferior conj	15668 Jun 10 00:47	3° © 00'51	2°46'27
Mathematical 15667 Jul 15 12.30 15°25493 21°41'37 morning rise 15668 Jun 19 1.00 20°11.074 21°41 2	_		10°\$37'01		,		3°906'41	2°45'17
Sees				21°41'37	8			
Second 1.5667 Aug 6 0.315 0°40 0°104247 0	•			21 1137	morning rise		•	
15667 Aug 16 03:15 0° 0° 0° 0° 0° 0° 0° 0	desc. flode							
max. Earth dist. 15667 Aug 6 14-04 0"m42"								20024104
max. Earth dist. 15667 Aug 22 17:58 10°m4022 1.42185 AU desc. node 15668 Jul 19 13:34 4°©38'09' 30°Ω superior conj 15667 Aug 30 08:58 23°m34'19 -1°18'07 morning set 15668 Jul 19 13:34 9°Ω460 14007 JUL 10 asc. node 15667 Sep 30 0043 0°D 18726 max. Earth dist. 15668 Aug 04 04:26 24°R12'S1 14007 JUL 10 asc. node 15667 Sep 10 07:54 13°A1'288 superior conj 15668 Aug 10 16:37 4°m18'19' 1°50'07' evening max 15667 Sep 10 20:57 0°R minimum elong 15668 Aug 25 10 16:37 4°m18'11' 1°90'04' evening max el 15667 Sep 26 08:35 8°B.3555 18°08'21 evening rise 15668 Aug 25 11:16 0°£ 4°m18'11' 1°94'94 evening max 15667 Oct 15 14:29 11°BL52'37 asc. node 15668 Aug 25 11:16 0°£ 1°21'14'94'91 1°19'14'14'14'14'14'14'14'14'14'14'14'14'14'		•			morning max ei			20°24'04
superior conj	•	Č						
Superior conj 15667 Aug 30 08.58 23° m3419 -1° 18'07 moming set 15668 Aug 04 04.20 24° 112'51 1.4071 AU 15666 Aug 04 04.20 24° 112'51 1.4071 AU 15666 Aug 05 03 00.43 0° 40° asc. node 15666 Sep 09 02.03 10° 40° 52' acc. 15666 Aug 07 18.30 0° 40° asc. node 15666 Sep 10 07.34 13° 42'12'51 1.4071 AU 15666 Aug 10 16.50 1.5666 Aug 10 16.50	max. Earth dist.	15667 Aug 22 17:58	10° Mp 40′22	1.42185 AU	desc. node	15668 Jul 01 15:21		
minimum elong						15668 Jul 19 13:43		
15667 Sep 03 00.43 00.45 10.	superior conj	15667 Aug 30 08:58	23° m 34'19	-1°18'07	morning set	15668 Jul 25 23:40	9° Ω 46'40	
Seconde 15667 Sep 19 02:03 10°\(\text{\text{\text{\$\chicknish}}} 15667 Sep 19 02:05 0°\(\text{\text{\$\chicknish}} 15667 Sep 19 20:05 0°\(\text{\text{\$\chicknish}} 15667 Sep 26 08:35 8°\(\text{\text{\$\chicknish}} 15667 Sep 26 08:35 8°\(\text{\text{\$\chicknish}} 15667 Oct 0.0 10:09 00'\(\text{\text{\$\chicknish}} 12°\(\text{\text{\$\chicknish}} 11°\(\t	minimum elong	15667 Aug 30 15:15	24° Mp 01'38	1°17'26	max. Earth dist.	15668 Aug 04 04:26	24° Ω 12'51	1.44071 AU
Second 15667 Sep 19 0.075 13° 4.075 15067 Sep 19 0.075 15667 Sep 19 0.075 0° 10° 10° 10° 10° 10° 10° 10° 10° 10°		15667 Sep 03 00:43	0∘ ⊽			15668 Aug 07 18:30	o°mp	
Pevening rise 15667 Sep 10 07.54 33°A1278 Superior conj 15668 Aug 10 08.52 4°B 1519 7'5004 15667 Sep 19 20.57 O"L minimum clong 15668 Aug 10 08.52 4°B 1519 7'5004 15667 Sep 10 07.54 38°A13675 18'08'21 Evening max cl 15668 Aug 23 01.34 25'B 14'504 15667 Oct 03 09.40 12'ALS 18'BL\$237 Sas. node 15668 Aug 23 01.34 25'B 14'504 15667 Oct 01 16 14'S 18'BL\$237 Sas. node 15668 Aug 25 11:16 O"A 15667 Oct 12 19'23 7'RL02'S4 0°22'33 retrograde 15668 Sep 15 10:27 25'AB10'S4 1616rior conj 15667 Oct 12 19'23 7'RL02'S4 0°22'33 retrograde 15668 Sep 15 10:27 25'AB10'S4 1616rior conj 15667 Oct 12 19'23 7'RL02'S4 0°22'33 retrograde 15668 Sep 15 10:27 25'AB10'S4 15667 Oct 12 19'9.28 1'RL24'S4 0'29'33 minimum clong 15668 Sep 17 10:24 16'A2'S4'10 15667 Oct 12 19'9.39 30'RA 0'80'88 AU 16'A2'S4'10 16'A2'S4'10 15667 Oct 20 0'8.38 29'A2'45 0'80'88 AU 15668 Sep 24 12:01 19'A2'S4 0'64'33'8 15667 Oct 20 0'8.38 29'A2'45 0'80'88 AU 15668 Sep 27 10:24 16'A2'S4'10 15667 Oct 20 0'8.38 29'A2'45 0'8'A3'10 0'8'A3'10 0'8'A3'10 15667 Oct 20 0'8.38 29'A2'45 0'8'A3'10 0'8'A3'10 0'8'A3'10 0'8'A3'10 15667 Oct 20 0'8.30 0'9 0'9 0'9 0'9 0'9 0'9 0'9 0'9 0'9 0'9	asc. node	15667 Sep 09 02:03	10° ≏ 56'32				-	
evening max el 15667 Sep 19 20.57 0°R minimum elong 15668 Aug 20 16.37 4°R4718 1°4949 evening max el 15667 Sep 26 08.35 8°R0555 18°08′21 evening rise 15668 Aug 25 11:16 0°A evening set 15667 Oct 03 09.40 12°R1316 0°A evening max el 15668 Aug 25 11:16 0°A evening set 15667 Oct 05 14.29 1°R.52′37 asc. node 15668 Aug 25 11:16 0°A 0°A 1°R.52′37 asc. node 15668 Aug 25 11:16 0°A 1°R.52′37 asc. node 15668 Aug 25 11:16 0°A 1°A	evening rise	*	13° ≏ 12'58		superior coni	15668 Aug 10 08:52	4° m 15'19	-1°50'04
Pevening max el 15667 Sep 26 08.35 38 ml.3655 18 0821 18 0821 16668 Aug 23 00.34 25 ml.4508 16 0669 16 ml.3766 16 0669 Aug 23 00.34 25 ml.4508 16 0669 Aug 25 02.39 0°44901 16 0668 Aug 26 0668 Aug	8 21	*				•	-	
retrograde 15667 Oct 03 09.40 12°IL13′16 evening set 15668 Aug 25 11:16 0°♣ evening set 15667 Oct 05 14:29 11°IL52′13′ asc. node 15668 Aug 25 12:29 0°♣4917 40°A917 40°A9	evening may el	•		18°08'21	_			1 10 10
desc. node 15667 Oct 10 14:58 8FL0570 cevening max el 15668 Aug 25 22:39 0° 24917 cevening max el 15668 Cot 12 19:23 7° 10.0254 0°2233 retrograde 15668 Sep 15 10:27 25° 24° 11'36 minimum elong 15667 Oct 12 19:23 7° 10.0254 0°221'48 cevening set 15668 Sep 17 23:09 24° 240'10 minimum elong 15667 Oct 16 01:07 4° 11'11'16 0.59648 AU inferior conj 15668 Sep 24 12:01 19° 240'10 0° 54'33 morning rise 15667 Oct 19 19:28 1° 10.24'50 minimum elong 15668 Sep 24 12:01 19° 240'10 0° 54'33 morning rise 15667 Oct 22 19:39 30° 4	Č			10 0021	evening rise	- C	~	
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morning max el 15667 Nov 09 15:09 7° № 10'40 27° 45'09 direct 15668 Oct 07 17:43 11° \(\top\) 07'09 27° 58'44 asc. node 15667 Dec 06 03:02 16° \(\top\) 28'25 37° \(\top\) 44'28 15668 Oct 07 17:43 10° \(\top\) 09 \(\top\)	direct	15667 Oct 26 08:38	29° ≏ 24'54		desc. node	15668 Sep 27 12:21	16° ≏ 28'10	
morning max el 15667 Nov 09 15:09 7° № 10'40 27° 45'09 direct 15668 Oct 07 17:43 11° 207'09 27° 58'44 asc. node 15667 Dec 06 03:02 16° ₹28'27 15668 Oct 21 20:58 19° 204'03 27° 58'44 asc. node 15667 Dec 11 16:21 27° ₹44'28 15668 Nov 18 18:29 0° № 1 15667 Dec 12 17:50 0° ♂ asc. node 15668 Nov 18 18:29 0° ₹ 15668 Nov 18 18:29 0° ₹ 15668 Nov 18 18:29 0° ₹ 15667 Dec 12 17:50 0° ♂ asc. node 15668 Nov 21 23:58 6° ₹14'23 11° ₹4'23 11° ₹2'35 11° ₹2'35 131057 AU morning set 15668 Nov 21 16:37 11° ₹4'05'8 max. Earth dist. 15667 Dec 18 16:41 13° ₹36060 132'41 minimum elong 15667 Dec 18 15:21 12° ₹58'32 1°33'27 superior conj 15668 Dec 02 02:02 27° ₹34'59 1°21'40 evening rise 15667 Dec 25 09:33 27° ₹56'31 minimum elong 15668 Dec 02 00:02 27° ₹34'59 1°21'40 27° ₹4'34 11° ₹4'30		15667 Oct 30 00:09	0° M ₊		morning rise	15668 Oct 01 01:23	13° ≏ 27'46	
15667 Nov 26 21:04 0° \$\frac{1}{8}	morning max el	15667 Nov 09 15:09	7° ጤ 10'40	27°45'09	direct	15668 Oct 07 17:43	11° ≏ 07'09	
asc. node morning set	S		0° ∡ 7		morning max el	15668 Oct 21 20:58	19° Ω 04'03	27°58'44
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retrograde 15668 Feb 05 20:53 20°\text{29'07} evening max el 15669 Jan 03 11:33 23°\$\text{\$\xitit{\$\text{\$\xitit{\$\text{\$\		15668 Jan 11 21:42	0°) €			15668 Dec 17 13:07	0° ≈	
evening set 15668 Feb 12 02:04 18°\(\frac{4}{5}7'27 \) min. Earth dist. 15668 Feb 16 10:59 16°\(\frac{4}{1}9'54 \) 0.57882 AU retrograde 15669 Jan 17 05:01 0°\(\frac{4}{3}'13 \) inferior conj 15668 Feb 19 12:27 14°\(\frac{4}{0}7'40 \) -3°\(51'04 \) minimum elong 15668 Feb 19 20:58 13°\(\frac{4}{5}2'16 \) 3°\(47'56 \) morning rise 15668 Feb 27 19:02 9°\(\frac{4}{2}4'24 \) minimum elong 15668 Feb 29 18:34 9°\(\frac{4}{2}9'48 \) inferior conj 15669 Jan 22 13:51 29°\(\frac{2}{3}3'27 \) 26°\(\frac{2}{3}1'25 \) 25°\(\frac{2}{3}1'25 \) 0.56025 AU 16Feior conj 15669 Jan 20 08:56 25°\(\frac{2}{3}1'25 \) 25°\(evening max el	15668 Jan 22 21:44	13°) €23'48	26°11'03	desc. node	15668 Dec 24 10:24	11° ≈ 29'01	
evening set 15668 Feb 12 02:04 18°\(\frac{4}{5}7'27 \) min. Earth dist. 15668 Feb 16 10:59 16°\(\frac{4}{1}9'54 \) 0.57882 AU retrograde 15669 Jan 17 05:01 0°\(\frac{4}{3}'13 \) inferior conj 15668 Feb 19 12:27 14°\(\frac{4}{0}7'40 \) -3°\(51'04 \) minimum elong 15668 Feb 19 20:58 13°\(\frac{4}{5}2'16 \) 3°\(47'56 \) morning rise 15668 Feb 27 19:02 9°\(\frac{4}{2}4'24 \) minimum elong 15668 Feb 29 18:34 9°\(\frac{4}{2}9'48 \) inferior conj 15669 Jan 22 13:51 29°\(\frac{2}{3}3'27 \) 26°\(\frac{2}{3}1'25 \) 25°\(\frac{2}{3}1'25 \) 0.56025 AU 16Feior conj 15669 Jan 20 08:56 25°\(\frac{2}{3}1'25 \) 25°\(•		20°) €29'07		evening max el			24°42'44
min. Earth dist. 15668 Feb 16 10:59 16°\text{19'54} 0.57882 AU retrograde 15669 Jan 17 05:01 0°\text{43'13} \ inferior conj 15668 Feb 19 12:27 14°\text{\text{\text{07'40}}} -3°\text{51'04} \ \text{15669 Jan 21 14:33} 30°\text{\text{\text{\text{\text{\text{37'}\text{39'}\text{\text{\text{29'}\text{\text{\text{\text{\text{\text{07'40}}}} -3°\text{51'04}} \ \text{evening set} \ \text{15669 Jan 21 14:33} \ \text{29°\text{\text{\text{\text{\text{\text{21'}\text{\text{\text{\text{\text{21'}\text{\text{\text{\text{\text{\text{10'}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{21'}\text{	•				Č			
inferior conj 15668 Feb 19 12:27 14°\text{\$\color{1}\$\c	•			0.57882 ATT	retrograde			
minimum elong 15668 Feb 19 20:58 13° ₹52'16 3°47'56 evening set 15669 Jan 22 13:51 29° ≈39'29 morning rise 15668 Feb 27 19:02 9° ₹42'42 min. Earth dist. 15669 Jan 27 23:27 26° ≈51'35 0.56025 AU direct 15668 Feb 29 18:34 9° ₹29'48 inferior conj 15669 Jan 30 08:56 25° ≈21'25 -5°11'28					0			
morning rise 15668 Feb 27 19:02 9° ₹42'42 min. Earth dist. 15669 Jan 27 23:27 26°≈51'35 0.56025 AU direct 15668 Feb 29 18:34 9° ₹29'48 inferior conj 15669 Jan 30 08:56 25°≈21'25 -5°11'28	3				evening set			
direct 15668 Feb 29 18:34 9°₩29'48 inferior conj 15669 Jan 30 08:56 25°≈21'25 -5°11'28	•			J 71 JU	-			0.56025 411
· · · · · · · · · · · · · · · · · · ·	_							
asc. node 15668 Mar U3 UU:5U 9°★4726 minimum elong 15669 Jan 30 17:48 25°≈07′30 5°08′58					,			
	asc. node	13008 Mar 03 00:50	9° 大 47/26		minimum elong	13009 Jan 30 17:48	∠ɔ་≈ʊ'/'30	2,08,28

morning rise	15669 Feb 07 23:58	21° ≈ 17'32		minimum elong	15670 Jan 10 13:11	5° ≈ 41'34	5°57'08
direct	15669 Feb 10 05:25	21° ≈ 04'01		morning rise	15670 Jan 19 00:04	1° ≈ 56′14	
asc. node	15669 Feb 17 22:12	23° ≈ 58'40		direct	15670 Jan 21 21:48	1° ≈ 36'30	
morning max el	15669 Feb 20 02:02	25° ≈ 51'11	19°33'58	morning max el	15670 Feb 02 08:55	7° ≈ 07'55	20°54'27
	15669 Feb 23 17:09	0°) €		asc. node	15670 Feb 04 19:33	9° ≈ 43'16	
morning set	15669 Mar 09 07:49	23°) 48′08			15670 Feb 17 11:41	0° ∀	
	15669 Mar 12 09:35	0° Y		morning set	15670 Feb 21 15:57	8° ∺ 27'59	
		••					
superior conj	15669 Mar 17 08:46	,		superior conj	15670 Mar 01 01:40	23°) 52′50	1°05'46
minimum elong	15669 Mar 17 11:01	10° Y ′04'54	0°41'47	minimum elong	15670 Mar 01 04:14	24° ∺ 06'00	1°05'34
desc. node	15669 Mar 22 11:43	19° Ƴ 41'51			15670 Mar 04 02:14	0° Υ	
max. Earth dist.	15669 Mar 23 18:41	22° Y °05'02	1.37799 AU	max. Earth dist.	15670 Mar 06 03:04	4° Υ ′00'43	1.35629 AU
evening rise	15669 Mar 27 11:11	28° Y 43′08		desc. node	15670 Mar 09 08:19	10° Y ′09'54	
	15669 Mar 28 04:42	9° 8		evening rise	15670 Mar 10 01:27	11° Y ′29'45	
	15669 Apr 16 06:03	Π °0			15670 Mar 20 17:30	0° 8	
evening max el	15669 May 01 21:00	19° Ⅱ 13'00	25°07'36		15670 Apr 11 11:57	Π °0	
retrograde	15669 May 13 21:35	26° Ⅱ 12'33		evening max el	15670 Apr 14 10:31	3° Ⅱ 03'02	26°16'20
asc. node	15669 May 16 19:17	25° Ⅱ 37'15		retrograde	15670 Apr 27 07:30	10° Ⅲ 24′24	
evening set	15669 May 19 17:08	23° Ⅱ 46′00		evening set	15670 May 03 13:20	7° Ⅱ 52'27	
min. Earth dist.	15669 May 24 02:02	18° Ⅱ 53'08	0.68192 AU	asc. node	15670 May 03 16:31	7° Ⅱ 45'50	
inferior conj	15669 May 25 07:55	17° Ⅱ 15'16	2°19'17	min. Earth dist.	15670 May 07 15:51	3° Ⅲ 35′03	0.67026 AU
minimum elong	15669 May 25 05:47	17° Ⅲ 22'16	2°17'55	inferior conj	15670 May 09 10:39	1° Ⅲ 23′24	1°40'45
morning rise	15669 May 30 18:46	11° Ⅲ 20'44		minimum elong	15670 May 09 08:35	1° Ⅲ 29'46	1°39'23
direct	15669 Jun 03 10:06	10° Ⅲ 04'44			15670 May 10 14:06	30° ₹ 8	
morning max el	15669 Jun 10 11:53	13° Ⅱ 57'09	19°20'06	morning rise	15670 May 15 04:45	25° 8 39'44	
desc. node	15669 Jun 18 12:27	23° Ⅱ 48′26		direct	15670 May 18 09:24	24° 8 42'04	
	15669 Jun 22 19:45	0 \circ \mathfrak{S}		morning max el	15670 May 24 22:04	28° 8 10'25	18°32'02
greatest brilliancy	15669 Jun 23 04:18	0°931'30	-0.7m	-	15670 May 26 15:39	$\Pi^{\circ}0$	
morning set	15669 Jul 05 03:45	18°9541'02		desc. node	15670 Jun 05 09:28	13° Ⅲ 27'55	
-	15669 Jul 12 11:31	$0^{\circ}\Omega$		morning set	15670 Jun 14 22:27	28° Ⅲ 20′17	
max. Earth dist.	15669 Jul 17 20:22	8° £ 22′59	1.45367 AU		15670 Jun 15 23:51	0 \circ \odot	
superior conj	15669 Jul 21 09:56	14° Ω 00′30		superior conj	15670 Jun 30 20:27	23° © 13'53	-2°12'33
minimum elong	15669 Jul 21 14:27	14° Ω 18′25	2°10'58	minimum elong	15670 Jun 30 17:22	23° © 01'53	2°13'18
	15669 Jul 31 08:22	0° m y		max. Earth dist.	15670 Jun 30 15:30	22° © 54'39	1.45950 AU
evening rise	15669 Aug 04 19:57	7° Mp 22'01			15670 Jul 05 04:33	0 $^{\circ}$ Ω	
asc. node	15669 Aug 12 19:17	20° Mp 27'25		evening rise	15670 Jul 16 14:26	17° Ω 56′02	
	15669 Aug 19 02:12	0∘ ত			15670 Jul 24 06:01	0° m ∕	
evening max el	15669 Aug 23 13:06	5° ≙ 21'35	18°13'26	greatest brilliancy	15670 Jul 24 17:55	0° Mp 46′27	-0.8m
retrograde	15669 Aug 29 21:49	8° ≙ 43'39		asc. node	15670 Jul 30 15:59	9° ™ 45'21	
evening set	15669 Sep 01 19:08	7° ≏ 58'28		evening max el	15670 Aug 07 01:39	19° m)07'14	18°42'45
inferior conj	15669 Sep 07 19:16	2° ₽ 32'46	1°52'23	retrograde	15670 Aug 13 15:51	22° Mp 41'44	
minimum elong	15669 Sep 07 21:35	2° ≏ 26′08	1°51'38	evening set	15670 Aug 16 22:24	21° m 40'30	
min. Earth dist.	15669 Sep 10 05:51	29° Mp 46'35	0.64104 AU	inferior conj	15670 Aug 22 13:18	16° Mp 00′17	2°31'58
	15669 Sep 10 01:00	30°R, Mp		minimum elong	15670 Aug 22 15:27	15° m 53'37	2°31'13
morning rise	15669 Sep 13 22:17	26° Mp 14'05		min. Earth dist.	15670 Aug 24 10:11	13° m /41'15	0.65979 AU
desc. node	15669 Sep 14 09:47	25° m 52'21		morning rise	15670 Aug 28 07:27	9° m 34'49	
direct	15669 Sep 20 12:18	23° Mp 40'19		desc. node	15670 Sep 01 07:13	7° m) 17'15	
	15669 Oct 02 13:52	0∘ ⊽		direct	15670 Sep 03 14:52	6° Mp 56′49	
morning max el	15669 Oct 04 06:58	1° മ 38'59	27°35'13	morning max el	15670 Sep 16 18:23	14° m 43'27	26°41'28
	15669 Oct 25 08:55	0° M			15670 Sep 29 06:39	0∘ ত	
morning set	15669 Nov 08 08:37	25° ™ 12'24			15670 Oct 18 02:49	0° M $_{\circ}$	
asc. node	15669 Nov 08 20:48	26°M₁3'01		morning set	15670 Oct 22 13:27	8°ML12'16	
	15669 Nov 10 17:40	0° ∡ ¹		max. Earth dist.	15670 Oct 26 13:43	16°ML00'36	1.34127 AU
max. Earth dist.	15669 Nov 13 01:22	4° ≯ ¹48'55	1.32551 AU	asc. node	15670 Oct 26 17:34	16° M 19'48	
superior conj	15669 Nov 16 08:26	11° ∡ 50′22	1°04'36	superior conj	15670 Oct 31 08:31	25°M46'40	0°41'30
minimum elong	15669 Nov 16 06:05	11° ₹ 37'41	1°05'01	minimum elong	15670 Oct 31 06:31	25°M36'15	0°41'48
evening rise	15669 Nov 23 06:33	26° ₹ 52'23			15670 Nov 02 08:44	0° ∡ ¹	
	15669 Nov 24 17:47	ರ∘8		evening rise	15670 Nov 07 16:19	11° ∡ 16′15	
desc. node	15669 Dec 11 07:22	28° る 43'34			15670 Nov 17 06:45	8°0	
	15669 Dec 12 08:12	0° ≈		evening max el	15670 Nov 27 11:29	13° る 55'39	21°21'14
evening max el	15669 Dec 15 20:57	3° ≈ 49'38	23°00'05	desc. node	15670 Nov 28 04:25	14° る 36'12	
retrograde	15669 Dec 29 00:22	10° ≈ 20′15		retrograde	15670 Dec 09 10:53	19° る 51'11	
evening set	15670 Jan 02 03:38	9° ≈ 43'04		evening set	15670 Dec 12 07:38	19° る 32'17	
min. Earth dist.	15670 Jan 09 06:39	6° ≈ 25'12	0.54785 AU	inferior conj	15670 Dec 21 01:25	15° る 41'29	-5°47'34
inferior conj	15670 Jan 10 10:12	5° ≈ 45'50	-5°58'03	minimum elong	15670 Dec 20 19:13	15° る 50'12	5°45'58

min. Earth dist.	15670 Dec 21 12:12	150至26110	0.54409 AU	inferior conj	15671 Nov 30 20:51	25° √ 40'15	1020120
morning rise	15670 Dec 29 07:13	13 3 2018	0.34409 AU	minimum elong	15671 Nov 30 20:31 15671 Nov 30 10:47	25° x ¹ 40 13	
=	15671 Jan 02 05:37	11 3 3139		C		23 x 33 30 24° x 30'22	0.54975 AU
direct			22025102	min. Earth dist.	15671 Dec 02 18:57		0.54975 AU
morning max el	15671 Jan 15 01:38	17° 3 31'53	22°35'03	morning rise	15671 Dec 08 18:40	21° х 31'31	
asc. node	15671 Jan 22 16:52	26°₹43'29		direct	15671 Dec 13 17:42	20° 🗷 37'48	24025101
	15671 Jan 24 20:46	0° ≈		morning max el	15671 Dec 27 10:30	27° ₹ '25'25	24°25'01
morning set	15671 Feb 06 03:00	23°≈12'11			15671 Dec 29 22:54	0°る	
	15671 Feb 09 07:08	0°) €		asc. node	15672 Jan 09 14:07	14°る41'27	
		001/1000			15672 Jan 17 20:21	0° ≈	
superior conj	15671 Feb 13 02:55	8°) 12'37		morning set	15672 Jan 21 15:01	7° ≈ 55'01	
minimum elong	15671 Feb 13 05:04	8° ¥ 24'02	1°22'57				
max. Earth dist.	15671 Feb 16 18:03	15°) (49′39	1.33781 AU	superior conj	15672 Jan 28 09:45	22°≈45′20	1°33'25
evening rise	15671 Feb 21 05:56	24°) € 50'49		minimum elong	15672 Jan 28 11:03	22° ≈ 52'24	1°33'55
	15671 Feb 23 22:36	0° Υ		max. Earth dist.	15672 Jan 30 16:54	27°≈45′10	1.32363 AU
desc. node	15671 Feb 24 04:56	0° Υ 29'39			15672 Jan 31 18:02	0°) {	
	15671 Mar 14 05:32	0°8		evening rise	15672 Feb 04 21:19	8°) ₹37'39	
evening max el	15671 Mar 28 00:16	16° 8 41'07	27°07'33	desc. node	15672 Feb 11 01:36	20°) (36′20	
retrograde	15671 Apr 10 11:31	24° 8 11'48			15672 Feb 16 09:18	0° Υ	
evening set	15671 Apr 17 01:36	21° 8 40'34		evening max el	15672 Mar 09 12:51	29° Y ′55'48	27°33'52
asc. node	15671 Apr 20 13:49	18° 8 22'07			15672 Mar 09 14:36	0°8	
min. Earth dist.	15671 Apr 20 23:18	17° 8 56'13	0.65447 AU	retrograde	15672 Mar 23 08:29	7° 8 25'51	
inferior conj	15671 Apr 23 06:39	15° 8 19'44	0°49'50	evening set	15672 Mar 30 03:40	5° 8 02'09	
minimum elong	15671 Apr 23 05:22	15° 8 23'23	0°48'49	min. Earth dist.	15672 Apr 02 22:25	1° 8 47'09	0.63522 AU
morning rise	15671 Apr 29 10:46	9° 8 48'41			15672 Apr 04 16:46	30° ₹Ƴ	
direct	15671 May 02 05:47	9° 8 06'48		inferior conj	15672 Apr 05 17:06	28° Y 57′26	
morning max el	15671 May 08 13:15	12° 8 23'32	18°00'48	minimum elong	15672 Apr 05 17:34	28° Y 56′16	0°14'31
	15671 May 21 02:54	Π °0		transit middle	15672 Apr 05 17:34	28° Y 56'16	0°14'31
desc. node	15671 May 23 06:23	3° Ⅱ 28'38		transit begin	15672 Apr 05 16:15	28° Y 59'38	
morning set	15671 May 26 19:39	9° Ⅱ 16′26		transit end	15672 Apr 05 18:53	28° Y 52'54	
	15671 Jun 08 16:34	0 \circ		asc. node	15672 Apr 06 11:10	28° Y 11'36	
				morning rise	15672 Apr 12 09:55	23° Ƴ 41′28	
superior conj	15671 Jun 10 08:14	2° 5 36'40	-1°54'52	direct	15672 Apr 14 20:33	23° Y 12'13	
minimum elong	15671 Jun 09 23:53	2° © 03'43	1°55'06	morning max el	15672 Apr 21 06:50	26° Y 28'59	17°46'54
max. Earth dist.	15671 Jun 13 11:47	7° 5 33'12	1.45786 AU		15672 Apr 24 08:46	9° 8	
evening rise	15671 Jun 26 10:43	27° 5 37'18		morning set	15672 May 07 19:21	21° 8 28'21	
	15671 Jun 27 23:53	$0 {\circ} \Omega$		desc. node	15672 May 09 03:13	23° 8 44'32	
greatest brilliancy	15671 Jul 09 14:55	17° Ω 36′27	-0.7m		15672 May 12 19:35	Π °0	
asc. node	15671 Jul 17 12:45	28° Ω 35′07					
	15671 Jul 18 16:29	0° m)		superior conj	15672 May 20 12:37	12° Ⅱ 47'55	-1°22'56
evening max el	15671 Jul 21 09:43	2° Mp 59'11	19°28'39	minimum elong	15672 May 20 04:54	12° Ⅱ 16′26	1°22'47
retrograde	15671 Jul 28 13:32	6° ₩ 58'33		max. Earth dist.	15672 May 26 06:57	22° Ⅱ 03'59	1.44896 AU
evening set	15671 Aug 01 05:57	5°₩39'53			15672 May 31 08:08	0 \circ ∞	
	15671 Aug 06 10:51	30° ₽ Ω		evening rise	15672 Jun 04 21:26	7° 5 01'40	
inferior conj	15671 Aug 06 14:56	29° Ω 46'31	2°56'22		15672 Jun 20 07:27	$0^{\circ}\Omega$	
minimum elong	15671 Aug 06 16:22	29° Ω 41'47	2°55'39	asc. node	15672 Jul 03 09:36	16° Ω 47'10	
min. Earth dist.	15671 Aug 07 21:40	28° Ω 05′03	0.67460 AU	evening max el	15672 Jul 03 11:56	16° Ω 53'01	20°29'22
morning rise	15671 Aug 12 02:13	23° Ω 20′27		retrograde	15672 Jul 11 12:32	21° Ω 28′25	
direct	15671 Aug 18 00:00	20° Ω 46′50		evening set	15672 Jul 15 15:28	19° Ω 51'54	
desc. node	15671 Aug 19 04:39	20° Ω 52′23		inferior conj	15672 Jul 20 21:29	13° Ω 46'36	3°07'46
morning max el	15671 Aug 30 05:27	28° Ω 05'33	25°26'26	minimum elong	15672 Jul 20 21:59	13° Ω 44'53	3°07'04
	15671 Sep 01 01:01	O° Mp		min. Earth dist.	15672 Jul 21 14:22	12° Ω 48'36	0.68486 AU
	15671 Sep 22 23:37	0∘ ত		morning rise	15672 Jul 26 04:13	7° Ω 23'55	
morning set	15671 Oct 05 03:19	20° ჲ 31'06		direct	15672 Jul 31 14:28	5° Ω 01'40	
max. Earth dist.	15671 Oct 08 16:52	27° ≏ 04'41	1.36180 AU	desc. node	15672 Aug 05 02:00	6° Ω 20′05	
	15671 Oct 10 05:55	0° M		morning max el	15672 Aug 11 16:15	11° Ω 38'34	23°59'47
asc. node	15671 Oct 13 14:17	6° ™ 30'04			15672 Aug 26 09:13	O° m y	
					15672 Sep 14 17:53	0∘ ত	
superior conj	15671 Oct 14 23:44	9° ™ 16′04	0°12'41	morning set	15672 Sep 15 22:04	1° ≏ 59'46	
minimum elong	15671 Oct 14 22:57	9°M12'11	0°13'00	max. Earth dist.	15672 Sep 19 15:44	8° ≏ 29'47	1.38530 AU
behind sun begin	15671 Oct 14 19:11	8°M53'22					
behind sun end	15671 Oct 15 02:43	9°M31'01		superior conj	15672 Sep 27 02:36	22° ჲ 10′26	-0°20'59
evening rise	15671 Oct 22 22:50	25°M30'09		minimum elong	15672 Sep 27 04:04	22° ≏ 17'23	0°20'28
	15671 Oct 25 04:01	0° ∡		asc. node	15672 Sep 29 10:59	26° ≏ 40'22	
evening max el	15671 Nov 09 14:51	24° ₹ ′40′19	19°59'10		15672 Oct 01 04:05	0° M	
desc. node	15671 Nov 15 01:35	28° х ⁴41'31		evening rise	15672 Oct 05 23:37	9°M28'06	
retrograde	15671 Nov 19 23:47	29° ₹ 50'30			15672 Oct 17 08:57	0° ∡ ¹	
evening set	15671 Nov 22 01:48	29° ∡ ³38'58		evening max el	15672 Oct 22 08:26	6° ∡ 14'42	18°59'00
evening sec							

ratra ara da	15672 Oct. 21, 02:29	100.7/40/42		avanina aat	15672 Oct. 15 02:40	220M 10126	
retrograde	15672 Oct 31 03:38	10°× 7 40'43		evening set	15673 Oct 15 03:40	22°M10'26	
desc. node	15672 Oct 31 22:48 15672 Nov 02 00:51	10°× 7 38'38		desc. node	15673 Oct 18 20:04	20°M29'19 17°M32'45	1915150
evening set inferior conj	15672 Nov 10 08:55	10° ₹ 29'20 6° ₹ 12'40	2050105	inferior conj minimum elong	15673 Oct 22 18:45 15673 Oct 22 15:51	17 1163243 17°1163243	1°14'14
minimum elong	15672 Nov 10 08:33	6° ₹ 25'33	2°55'34	min. Earth dist.	15673 Oct 26 00:49	14°ML54'17	0.58352 AU
min. Earth dist.	15672 Nov 13 06:08	4° х 12′21	0.56373 AU	morning rise	15673 Oct 20 00:49	12°M12'56	0.38332 AU
morning rise	15672 Nov 17 23:27	1°×729'57	0.30373 AU	direct	15673 Nov 05 08:36	10°M27'39	
direct	15672 Nov 23 17:58	0°×111'37		morning max el	15673 Nov 19 15:42	18°ML04'36	27°19'34
morning max el	15672 Dec 07 21:17	7° × ⁷ 26'17	26°05'54	morning max ci	15673 Nov 29 15:25	0° ₹	27 17 34
morning max cr	15672 Dec 24 13:15	0°る	20 03 34	asc. node	15673 Dec 13 08:21	22° × ⁷ 35'55	
asc. node	15672 Dec 26 11:17	3° る 22'39		ase. node	15673 Dec 17 02:43	0°중	
morning set	15673 Jan 05 02:08	22° ප 31'16		morning set	15673 Dec 20 10:36	° පි56'25	
morning sec	15673 Jan 08 12:06	0° ≈		morning sec	13073 BCC 20 10.30	0 03023	
	10075 0411 00 12.00	0		superior conj	15673 Dec 27 07:21	22° る 03'57	1°36'19
superior conj	15673 Jan 11 19:53	7° ≈ 24'13	1°37'52	minimum elong	15673 Dec 27 06:33	21° ප් 59'30	1°37'07
minimum elong	15673 Jan 11 20:08	7°≈25'36	1°38'37	max. Earth dist.	15673 Dec 27 05:31	21° ට 53'40	1.31035 AU
max. Earth dist.	15673 Jan 12 21:49	9° ≈ 48'23	1.31436 AU		15673 Dec 30 20:41	0° ≈	
evening rise	15673 Jan 18 20:46	22° ≈ 42'55		evening rise	15674 Jan 03 01:58	7° ≈ 01'08	
C	15673 Jan 22 10:25	0° ∀		desc. node	15674 Jan 14 19:01	29° ≈ 44'03	
desc. node	15673 Jan 27 22:17	10°) €23'38			15674 Jan 14 22:44	0° ∀	
	15673 Feb 09 06:16	$0^{\circ}\mathbf{\Upsilon}$		evening max el	15674 Feb 02 00:23	24°) 21′34	26°49'15
evening max el	15673 Feb 19 21:46	12° Y 32'56	27°28'58	•	15674 Feb 09 17:46	$0^{\circ}\mathbf{\Upsilon}$	
retrograde	15673 Mar 05 21:18	19° Ƴ 56'17		retrograde	15674 Feb 16 00:43	1° Y 34'56	
evening set	15673 Mar 12 16:43	17° Ƴ 47'16		-	15674 Feb 22 04:04	30° ₹ ₩	
min. Earth dist.	15673 Mar 16 11:32	14° Ƴ 55′23	0.61356 AU	evening set	15674 Feb 22 13:29	29°) 47′46	
inferior conj	15673 Mar 19 14:34	12° Y 06'48	-1°31'49	min. Earth dist.	15674 Feb 26 14:19	27°) €08'51	0.59115 AU
minimum elong	15673 Mar 19 17:51	11° Y 59'23	1°30'35	inferior conj	15674 Mar 01 19:20	24°) 38′11	-2°59'22
asc. node	15673 Mar 24 08:34	8° Y 20'43		minimum elong	15674 Mar 02 02:07	24°) 24′51	2°56'41
morning rise	15673 Mar 26 22:13	7° Ƴ 08'59		morning rise	15674 Mar 09 18:16	20° ₭ 01'07	
direct	15673 Mar 29 02:02	6° Ƴ 48'57		asc. node	15674 Mar 11 05:55	19°) 47′42	
morning max el	15673 Apr 04 23:40	10° Ƴ 17'05	17°50'55	direct	15674 Mar 11 17:52	19° ∺ 46'47	
	15673 Apr 18 01:52	9° 8		morning max el	15674 Mar 19 12:10	23°) 37′41	18°14'04
morning set	15673 Apr 20 16:02	4° 8 38'22			15674 Mar 24 14:43	0 ° $\mathbf{\Upsilon}$	
desc. node	15673 Apr 25 23:57	14° 8 10'07		morning set	15674 Apr 04 03:58	18° Ƴ 29'28	
					15674 Apr 10 07:17	$0^{\circ}S$	
superior conj	15673 May 01 16:17	24° 8 03'29		desc. node	15674 Apr 12 20:39	4° 8 41'28	
minimum elong	15673 May 01 12:12	23° 8 45'59	0°44'58				
	15673 May 05 04:42	Π $^{\circ}0$		superior conj	15674 Apr 13 18:27	6° 8 20'06	
max. Earth dist.	15673 May 08 22:27	6° Ⅱ 09'50	1.43369 AU	minimum elong	15674 Apr 13 17:50	6° 8 17'20	0°07'50
evening rise	15673 May 15 14:55	16° Ⅱ 49'47		behind sun begin	15674 Apr 13 11:15	5° 8 47'35	
	15673 May 24 05:53	0°€		behind sun end	15674 Apr 14 00:25	6° 8 47'01	
	15673 Jun 15 14:11	0 \circ Ω		max. Earth dist.	15674 Apr 21 08:47	19° 8 36'46	1.41371 AU
evening max el	15673 Jun 16 08:12		21°42'01	evening rise	15674 Apr 26 02:31	27° 8 28'14	
asc. node	15673 Jun 20 06:32	4°Ω08'10			15674 Apr 27 16:05	0°II	
retrograde	15673 Jun 25 11:04	6° Ω 04'59			15674 May 17 21:10	0°€	
evening set	15673 Jun 30 01:02	4° Ω 11′28		evening max el	15674 May 30 00:03	14°939'07	23°02'01
	15673 Jul 03 18:36	30° ₹ 5	2005140	asc. node	15674 Jun 07 03:30	20°522'16	
inferior conj	15673 Jul 05 06:42	27°955'37	3°07'48	retrograde	15674 Jun 09 07:32	20°542'43	
minimum elong	15673 Jul 05 06:15	27°957'13	3°06'58	evening set	15674 Jun 14 08:57	18°934'03	2057115
min. Earth dist.	15673 Jul 05 10:13	27°543'21	0.69026 AU	inferior conj	15674 Jun 19 16:37	12°909'52	2°57'15
morning rise	15673 Jul 10 11:17	21°538'49		minimum elong	15674 Jun 19 15:18	12°514'25	2°56'13
direct desc. node	15673 Jul 15 09:15	19°932'45		min. Earth dist.	15674 Jun 19 07:09	12°542'43 6°500'32	0.69077 AU
	15673 Jul 22 23:18 15673 Jul 25 04:32	23°5014'59 25°5019'41	22920145	morning rise direct	15674 Jun 24 21:34 15674 Jun 29 07:12	4°9513'20	
morning max el	15673 Jul 29 10:01	23 3 1941 0° Ω	22 30 43	morning max el	15674 Jul 29 07.12 15674 Jul 07 20:58	9°909'37	21°07'10
	15673 Aug 19 20:04	0° m p		desc. node	15674 Jul 09 20:32	9 3 0937 11° 9 15'11	21 0/10
morning set	15673 Aug 17 20.04 15673 Aug 27 17:53	12° Mp 29'44		desc. node	15674 Jul 24 00:05	0°Ω	
max. Earth dist.	15673 Sep 01 16:19	20° m 39'41	1.40906 AU	morning set	15674 Aug 07 14:05	21° Ω 59'39	
max. Durur dist.	15673 Sep 07 02:24	ე∘ <u>ი</u>	1.10,000 110	morning sec	15674 Aug 12 15:28	0° m)	
	15075 50p 07 02.24	~ –		max. Earth dist.	15674 Aug 14 22:15	3° m)41'04	1.43041 AU
superior conj	15673 Sep 09 12:56	4° £ 20'04	-0°57'21		-50,ug 17 22.13	- υχι1 ∪-τ	1
minimum elong	15673 Sep 09 17:27	4° £ 40′25		superior conj	15674 Aug 22 02:16	15° m) 34'54	-1°32'36
asc. node	15673 Sep 16 07:38	16° ≏ 47'07		minimum elong	15674 Aug 22 09:34	16° M) 05'51	
evening rise	15673 Sep 19 15:24	23° ⊆ 01'57			15674 Aug 30 09:16	0∘ ಹ	
6	15673 Sep 23 08:55	0°M		evening rise	15674 Sep 02 17:57	° - 00'01	
evening max el	15673 Oct 05 13:14	18°MJ35'18	18°20'54	asc. node	15674 Sep 03 04:15	6° £ 46'03	
retrograde	15673 Oct 13 02:55	22°M26'24			15674 Sep 17 14:58	0° M	
J					1		

evening max el	15674 Sep 19 00:59	1° M .31'34	18°03'16		15675 Aug 05 05:19	0° m)	
retrograde	15674 Sep 25 19:25	5°ML00'32	18 03 10	evening rise	15675 Aug 16 02:12	18° Mp 09'58	
evening set	15674 Sep 28 03:20	4°MJ35'51		asc. node	15675 Aug 21 00:52	26° m ₂ 33'15	
evening set	15674 Oct 04 15:44	30°R <u>₽</u>		use. Houe	15675 Aug 23 02:23	0° ⊽	
inferior conj	15674 Oct 05 01:08	29° £ 37'55	0°12'43	evening max el	15675 Sep 02 15:41	ა — 14° ჲ 53'59	18°04'35
minimum elong	15674 Oct 05 01:33	29° £ 36'55	0°12'54	retrograde	15675 Sep 09 01:05	18° ♀ 14'24	10 0133
transit middle	15674 Oct 05 01:33	29° £ 36'55	0°12'54	evening set	15675 Sep 11 17:26	17° £ 37'25	
transit begin	15674 Oct 04 23:34	29° £ 41'37		inferior conj	15675 Sep 18 00:29	12° £ 21'16	1°21'34
transit end	15674 Oct 05 03:32	29° £ 32'14		minimum elong	15675 Sep 18 02:30	12° £ 15'50	1°20'59
desc. node	15674 Oct 05 17:25	28° ≏ 59'14		min. Earth dist.	15675 Sep 20 18:22	9° ≏ 25'52	0.62888 AU
min. Earth dist.	15674 Oct 08 04:41	26° ≙ 40'35	0.60618 AU	desc. node	15675 Sep 22 14:50	7° ≙ 38'02	
morning rise	15674 Oct 11 20:38	23° ₽ 47'41		morning rise	15675 Sep 24 09:21	6° ₽ 10'30	
direct	15674 Oct 18 11:55	21° ≏ 37'50		direct	15675 Oct 01 01:31	3° ≏ 42'58	
morning max el	15674 Nov 01 17:47	29° ≏ 30'17	27°55'43	morning max el	15675 Oct 15 01:31	11° ≏ 41'50	27°52'52
	15674 Nov 02 05:42	0°M₊			15675 Oct 29 14:12	0°M	
	15674 Nov 23 15:29	0° ∡ ¹			15675 Nov 16 01:14	0° ∡ ¹	
asc. node	15674 Nov 30 05:20	12° ∡ 11'43		asc. node	15675 Nov 17 02:15	2° х 03′40	
morning set	15674 Dec 04 14:27	21° ∡ ¹04'32		morning set	15675 Nov 18 11:31	4° ∡ 750'54	
	15674 Dec 08 18:16	0°₹		max. Earth dist.	15675 Nov 23 14:21	15° ∡ ³34′20	1.31893 AU
max. Earth dist.	15674 Dec 10 12:13	3° る 51'23	1.31182 AU				
				superior conj	15675 Nov 26 02:40	21° ∡ °02′13	1°15'11
superior conj	15674 Dec 11 18:14	6° ප 38'14		minimum elong	15675 Nov 26 00:26	20° х 49′56	1°15'43
minimum elong	15674 Dec 11 16:34	6° පි 28'52	1°29'28		15675 Nov 30 04:23	0°ಕ	
evening rise	15674 Dec 18 10:47	21° පි 26'27		evening rise	15675 Dec 02 21:27	5° る 54'54	
	15674 Dec 22 12:32	0° ≈			15675 Dec 15 09:16	0° ≈	
desc. node	15675 Jan 01 15:49	18° ≈ 26'41		desc. node	15675 Dec 19 12:42	6°≈18′20	
	15675 Jan 09 21:27	0° ∺		evening max el	15675 Dec 27 06:11	15° ≈ 29'09	23°59'47
evening max el	15675 Jan 14 18:51	5° ∺ 17'00	25°36'19	retrograde	15676 Jan 09 19:08	22°≈12'16	
retrograde	15675 Jan 28 16:43	12° ¥ 17′27		evening set	15676 Jan 14 16:06	21° ≈ 20'41	
evening set	15675 Feb 03 14:13	10°) 57′38	0.55000 111	min. Earth dist.	15676 Jan 20 17:42	18°≈22'20	0.55411 AU
min. Earth dist.	15675 Feb 08 07:41	8° ¥ 17'36	0.57033 AU	inferior conj	15676 Jan 22 15:46	17°≈13'24	
inferior conj	15675 Feb 11 04:01	6° ¥ 21'41		minimum elong	15676 Jan 22 22:56	17°≈02'39	5°35'12
minimum elong	15675 Feb 11 13:16	6° ¥ 05'57	4°24'29	morning rise	15676 Jan 31 07:28	13°≈16'23	
morning rise	15675 Feb 19 15:13 15675 Feb 21 15:55	2° ∺ 06'01 1° ∺ 53'33		direct	15676 Feb 02 18:36 15676 Feb 13 00:40	13°≈00'56	
direct asc. node	15675 Feb 26 03:17	2°\(\frac{1}{5}\)58'08		asc. node morning max el	15676 Feb 13 00:40 15676 Feb 13 07:31	17°≈50'37 18°≈07'00	20°05'18
morning max el	15675 Mar 02 16:11	6° ₩ 18'08	18°58'14	morning max er	15676 Feb 22 04:21	18 ≈ 0700	20 03 18
morning max ci	15675 Mar 17 16:13	0°Υ	16 36 14	morning set	15676 Mar 02 07:52	17° ¥ 22'00	
morning set	15675 Mar 19 02:26	2° Υ 47'33		morning set	15676 Mar 08 12:13	0° Υ	
morning sec	15075 17141 17 02.20	2 1 17 33			13070 Mai 00 12.13	0 1	
superior conj	15675 Mar 27 15:01	19° Ƴ 25'43	0°25'45	superior conj	15676 Mar 10 01:37	3° Y 08'12	0°53'00
minimum elong	15675 Mar 27 16:36	19° Ƴ 33'17	0°25'15	minimum elong	15676 Mar 10 04:07	3° Y ′20'42	0°52'38
desc. node	15675 Mar 30 17:18	25° Y 14'29		max. Earth dist.	15676 Mar 15 22:09	14° Ƴ 31'26	1.36853 AU
	15675 Apr 02 07:50	0°8		desc. node	15676 Mar 16 13:55	15° Ƴ 45'22	
max. Earth dist.	15675 Apr 03 15:22	2° 8 21'06	1.39116 AU	evening rise	15676 Mar 19 16:00	21° Y ′25'23	
evening rise	15675 Apr 07 11:27	9° 8 02'24			15676 Mar 24 13:36	9° 8	
	15675 Apr 20 13:28	Π °0			15676 Apr 13 10:58	Π °0	
evening max el	15675 May 12 13:54	28° Ⅱ 34′04	24°23'15	evening max el	15676 Apr 24 03:31	12° Ⅱ 28′10	25°38'37
	15675 May 14 01:57	0ං ම		retrograde	15676 May 06 13:23	19° Ⅱ 37'51	
retrograde	15675 May 24 00:43	5° © 16'00		asc. node	15676 May 10 21:42	18° Ⅲ 20′50	
asc. node	15675 May 25 00:32	5° © 11'48		evening set	15676 May 12 13:28	17° Ⅱ 08'37	
evening set	15675 May 29 13:40	2°955'08		min. Earth dist.	15676 May 16 19:36	12° Ⅱ 30′56	0.67750 AU
	15675 Jun 01 07:55	30°RⅡ		inferior conj	15676 May 18 06:53	10° Ⅱ 38′07	2°04'24
min. Earth dist.	15675 Jun 03 03:00	27° Ⅱ 40'54	0.68647 AU	minimum elong	15676 May 18 04:43	10° Ⅱ 45'05	2°03'01
inferior conj	15675 Jun 04 01:20	26° Ⅱ 25'40	2°36'16	morning rise	15676 May 23 20:28	4° Ⅱ 47'50	
minimum elong	15675 Jun 03 23:24	26° Ⅱ 32'11	2°35'01	direct	15676 May 27 07:14	3° Ⅱ 39'41	
morning rise	15675 Jun 09 09:15	20° I I25'11		morning max el	15676 Jun 03 02:19	7° I I20'05	18°57'37
direct	15675 Jun 13 07:07	18° Ⅱ 57'47	1005450	desc. node	15676 Jun 12 14:48	19° Ⅱ 27'31	0.7
morning max el	15675 Jun 20 19:58	23° I 10'15	19°54'58	greatest brilliancy	15676 Jun 16 08:53	25° Ⅱ 01'53	-U./m
desc. node	15675 Jun 26 17:43	0°ഇ03'48			15676 Jun 19 15:17	0°©	
	15675 Jun 26 16:33	0°©		morning set	15676 Jun 26 03:00	9° © 59'57	
	15675 Jul 17 05:11	0° Ω		E d E :	15676 Jul 09 00:03	0°Ω	1 45710 411
morning set	15675 Jul 17 18:55	0° £ 52′39	1 44600 411	max. Earth dist.	15676 Jul 10 04:50	1° Ω 52′28	1.45710 AU
max. Earth dist.	15675 Jul 28 10:52	17° Ω 29'57	1.44699 AU	cuparior con:	15676 Jul 12 09:28	5° Ω 18'35	2013/50
superior con:	15675 Aug 02 16:00	25° Ω 51′23	2000/25	superior conj minimum elong	15676 Jul 12 09:28 15676 Jul 12 11:00	5°Ω24'36	
superior conj minimum elong	15675 Aug 02 16:09 15675 Aug 02 23:15	$25^{\circ} \Omega 20'04$		evening rise	15676 Jul 12 11:00 15676 Jul 27 11:08	5° λ (24'36 29° Ω 19'55	2 14 33
minimum ciong	13073 Aug 02 23.13	40 0640 04	2 00 37	evening 1150	130/03ul 2/ 11.08	41 061733	

max. Earth dist.	15678 Jun 05 21:11		1.45492 AU		15679 May 10 05:04	0°Щ	
evening rise	15678 Jun 17 09:33	18°957'18			15(50) (10 0) (0	40 T 4510 6	1005105
	15678 Jun 24 16:03	0°N	0.6	superior conj	15679 May 13 01:42	4° Ⅱ 47'26	
greatest brilliancy	15678 Jul 02 01:23	10° Ω 57'10	-0.6m	minimum elong	15679 May 12 19:23	4° Ⅱ 21'11	
asc. node	15678 Jul 11 15:01	23° Ω 44'42	10050145	max. Earth dist.	15679 May 19 14:22	15° Ⅱ 26'13	1.44315 AU
evening max el	15678 Jul 13 22:14	26° Ω 13'45	19°52'45	evening rise	15679 May 27 21:07	28° Ⅱ 26'22	
	15678 Jul 19 03:08	0°M)			15679 May 28 21:29	0 ಂ ${\cal O}$	
retrograde	15678 Jul 21 10:17 15678 Jul 23 15:09	0° Mp 27′44 30° RΩ		evening max el	15679 Jun 18 11:21 15679 Jun 26 21:47	10° Ω 06'55	20°59'08
avanina aat	15678 Jul 25 07:00	30 kgι 29°Ω01'34		asc. node	15679 Jun 28 11:52	10 δ 2 06 33	20 39 08
evening set inferior conj	15678 Jul 30 14:22	29 δ (01 34 23° Ω 02'48	3°02'41	retrograde	15679 Jul 28 11.32 15679 Jul 05 09:15	$15^{\circ}\Omega00'30$	
minimum elong	15678 Jul 30 15:26	23 δ 02 48 22° Ω 59'14	3°01'59	evening set	15679 Jul 09 16:43	13° Ω 16'51	
min. Earth dist.	15678 Jul 31 15:10	$21^{\circ} \Omega 39'15$	0.67950 AU	inferior conj	15679 Jul 14 22:18	7°Ω06'58	3°09'07
morning rise	15678 Aug 04 23:25	$16^{\circ} \Omega 37'29$	0.07750 AC	minimum elong	15679 Jul 14 22:24	7° Ω 06'39	3°08'22
direct	15678 Aug 10 16:20	14°Ω08'01		min. Earth dist.	15679 Jul 15 09:32	6°Ω28'00	0.68774 AU
desc. node	15678 Aug 13 07:07	14°Ω34'48		morning rise	15679 Jul 20 03:48	0° Ω 46'21	0.00774710
morning max el	15678 Aug 22 10:53	21°Ω11'13	24°50'24	morning rise	15679 Jul 21 02:53	30°RS	
morning max or	15678 Aug 30 02:11	0° m	21 3021	direct	15679 Jul 25 08:55	28° © 30'16	
	15678 Sep 19 14:29	0° م		direct	15679 Jul 30 02:13	0° Ω	
morning set	15678 Sep 27 04:23	12° ≏ 51'06		desc. node	15679 Jul 31 04:28	0°Ω42'05	
max. Earth dist.	15678 Sep 30 17:23	19° £ 12'40	1.37151 AU	morning max el	15679 Aug 04 21:51	4° Ω 46'55	23°21'35
	15678 Oct 06 10:49	0°M	-10,122		15679 Aug 24 08:13	0° m)	
	100,00000000000000000000000000000000000	0 110		morning set	15679 Sep 08 13:41	23° m 55'16	
superior conj	15678 Oct 07 13:36	2°M10'20	-0°01'07		15679 Sep 12 03:38	0∘ ⊽	
minimum elong	15678 Oct 07 13:38	2°M10'32	0°00'44	max. Earth dist.	15679 Sep 12 15:43	0° ჲ 52'11	1.39553 AU
behind sun begin	15678 Oct 07 07:04	1°M38'23			1		
behind sun end	15678 Oct 07 20:13	2°M42'45		superior conj	15679 Sep 20 09:56	14° ≏ 46'37	-0°36'16
asc. node	15678 Oct 07 16:34	2°M24'53		minimum elong	15679 Sep 20 12:38	14° ≏ 59'08	0°35'39
evening rise	15678 Oct 15 21:11	18°M49'22		asc. node	15679 Sep 24 13:11	22° ჲ 33'38	
-	15678 Oct 21 14:04	0° ∡ ¹			15679 Sep 28 09:57	0°M	
evening max el	15678 Nov 01 21:20	16° ∡ ′49'34	19°30'51	evening rise	15679 Sep 29 18:32	2°M37'35	
desc. node	15678 Nov 09 03:58	21° ₹ 22'51		evening max el	15679 Oct 15 20:16	28°M44'42	18°40'13
retrograde	15678 Nov 11 13:51	21° ∡ °40′23			15679 Oct 17 04:52	0° ∡ ¹	
evening set	15678 Nov 13 12:08	21° ₹ 29'44		retrograde	15679 Oct 24 01:30	2° ∡ ¹53'54	
inferior conj	15678 Nov 22 03:45	17° ∡ ¹24'27	-3°58'56	evening set	15679 Oct 25 23:39	2° ∡ ¹41'04	
minimum elong	15678 Nov 21 18:17	17° ∡ ³39'37	3°55'00	desc. node	15679 Oct 27 01:13	2° ∡ ¹23'26	
min. Earth dist.	15678 Nov 24 13:34	15° ₹ 51'52	0.55472 AU		15679 Oct 31 14:50	30°RM	
morning rise	15678 Nov 29 22:27	13° ₹ 02'02		inferior conj	15679 Nov 03 00:51	28°M15'51	-2°14'17
direct	15678 Dec 05 06:23	11° ≯ 758'11		minimum elong	15679 Nov 02 19:24	28°M26'00	2°11'27
morning max el	15678 Dec 19 05:03	18° ₹ 59'00	25°10'15	min. Earth dist.	15679 Nov 06 03:41	25°M57′06	0.57167 AU
	15678 Dec 28 10:03	0° ろ		morning rise	15679 Nov 10 11:55	23°M17'11	
asc. node	15679 Jan 03 16:35	9° る 53'39		direct	15679 Nov 16 13:16	21°M47'01	
	15679 Jan 14 00:24	0° ≈		morning max el	15679 Nov 30 18:28	29° ™ 11'49	26°41'18
morning set	15679 Jan 14 17:05	1° ≈ 29'31			15679 Dec 01 14:02	0° ∡ ¹	
				asc. node	15679 Dec 21 13:42	28° ∡ ¹49'06	
superior conj	15679 Jan 21 10:55	16°≈19′25	1°36'02		15679 Dec 22 04:56	0° ろ	
minimum elong	15679 Jan 21 11:46	16°≈24'10	1°36'40	morning set	15679 Dec 30 03:15	16° පි 00'37	
max. Earth dist.	15679 Jan 23 05:16	20°≈12'14	1.31900 AU		15680 Jan 05 11:20	0° ≈	
	15679 Jan 27 19:03	0°) {			15(00 t 05 01 10	00 - 50140	1027157
evening rise	15679 Jan 28 17:21	1°) 55'35		superior conj	15680 Jan 05 21:49	0°≈58'40	1°37'57
desc. node	15679 Feb 05 03:46	16° ¥ 23'45 0° Ƴ		minimum elong	15680 Jan 05 21:37	0°≈57'32	
	15679 Feb 13 03:24	0°γ 22° Υ '42'47	27925152	max. Earth dist.	15680 Jan 06 11:37	2°≈15'47	1.31199 AU
evening max el	15679 Mar 02 17:42 15679 Mar 14 15:08	0° 8	27 33 32	evening rise	15680 Jan 12 19:29 15680 Jan 19 17:40	16°≈06'31 0°) €	
ratragrada		0° 8 11'27		desc. node	15680 Jan 23 00:29	0 X 6° ¥ 00'11	
retrograde	15679 Mar 16 15:51 15679 Mar 18 15:27	0 O1127 30°RΥ		desc. node	15680 Feb 08 07:04	0° Υ	
evening set	15679 Mar 23 11:41	27° Υ 53'00		evening max el	15680 Feb 13 00:27	5° Υ 00'47	27°16'33
min. Earth dist.	15679 Mar 27 05:53	24° Υ 48'42	0.62619 AU	retrograde	15680 Feb 27 00:57	12° Υ 20'00	21 10 33
inferior conj	15679 Mar 30 04:42	24 γ 48 42 21° γ 57'15		evening set	15680 Mar 04 18:14	12 γ 20 00 10° γ 19'54	
minimum elong	15679 Mar 30 04:42	21° Y 53'32	0°45'19	min. Earth dist.	15680 Mar 08 14:50	7° Υ 34'40	0.60392 AU
asc. node	15679 Apr 01 13:39	19° Υ 44'34	0 70 17	inferior conj	15680 Mar 11 19:32	4° Υ 51'47	
morning rise	15679 Apr 06 03:40	16° Υ 48'45		minimum elong	15680 Mar 12 00:17	4° Υ 41'39	2°06'13
direct	15679 Apr 08 11:00	16° Υ 23'59		asc. node	15680 Mar 18 11:02	0° Υ 21'00	2 00 10
morning max el	15679 Apr 15 01:14	19° Υ 44'30	17°46'18	morning rise	15680 Mar 19 09:44	0° Υ 02'12	
morning man or	15679 Apr 22 17:04	0°8	1, 1010		15680 Mar 19 13:04	30°R ₩	
morning set	15679 May 01 02:33	14° 8 18'05		direct	15680 Mar 21 11:16	29° ¥ 45′02	
desc. node	15679 May 04 05:27	19° 8 44'30			15680 Mar 23 08:41	0° Υ	
						-	

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	15682 Feb 24 05:48	0° \		asc. node	15683 Feb 07 03:13	11° ≈ 56'57	
morning set	15682 Mar 12 01:13	26° ∺ 18'06		asc. node	15683 Feb 18 21:16	0° \	
morning set	15682 Mar 13 21:31	20 γ 18 00		morning set	15683 Feb 24 08:44	10° ¥ 56'32	
	13002 Widi 13 21.31	0 1		morning set	13003100 24 00.44	10 7(3032	
superior conj	15682 Mar 20 04:59	12° Ƴ 31'42	0°38'04	superior conj	15683 Mar 03 20:22	26° ¥ 26'30	1°02'36
minimum elong	15682 Mar 20 07:05	12° Υ 41'58	0°37'36	minimum elong	15683 Mar 03 22:56	26° ₩ 39'38	1°02'21
desc. node	15682 Mar 24 19:30	21° Υ 17'45	0 3, 30		15683 Mar 05 14:34	0°Υ	1 0221
max. Earth dist.	15682 Mar 26 18:59	24° Y 56'14	1.38136 AU	max. Earth dist.	15683 Mar 09 02:41	6° Y ′54'22	1.35936 AU
	15682 Mar 29 14:46	0°8		desc. node	15683 Mar 11 16:07	11° Y '46'33	
evening rise	15682 Mar 30 11:51	1° 8 32'38		evening rise	15683 Mar 12 23:43	14° Y 13'21	
	15682 Apr 17 09:41	0°II			15683 Mar 22 01:17	0°8	
evening max el	15682 May 04 20:18	21° Ⅱ 48'53	24°56'22		15683 Apr 12 03:53	0°II	
retrograde	15682 May 16 17:32	28° Ⅱ 44'31		evening max el	15683 Apr 17 09:53	5° Ⅱ 40′15	26°07'09
asc. node	15682 May 19 02:56	28° Ⅱ 20'25		retrograde	15683 Apr 30 04:18	12° I 59'11	
evening set	15682 May 22 11:24	26° Ⅱ 19'14		evening set	15683 May 06 08:38	10° Ⅱ 27'48	
min. Earth dist.	15682 May 26 21:22	21° Ⅲ 20'52	0.68321 AU	asc. node	15683 May 06 00:09	10° Ⅱ 44'54	
inferior conj	15682 May 28 01:18	19° Ⅱ 48'36	2°24'07	min. Earth dist.	15683 May 10 12:02	6° Ⅱ 05'07	0.67222 AU
minimum elong	15682 May 27 23:13	19° Ⅱ 55'31	2°22'48	inferior conj	15683 May 12 04:53	3° Ⅱ 58′06	1°47'26
morning rise	15682 Jun 02 11:19	13° Ⅱ 52'28		minimum elong	15683 May 12 02:46	4° Ⅱ 04'43	1°46'02
direct	15682 Jun 06 04:17	12° Ⅲ 33'38		C	15683 May 15 16:06	30°R ∀	
morning max el	15682 Jun 13 08:46	16° Ⅱ 30'59	19°28'40	morning rise	15683 May 17 21:42	28° 8 12'36	
desc. node	15682 Jun 20 20:07	25° Ⅱ 34'28		direct	15683 May 21 03:54	27° 8 12'17	
	15682 Jun 23 23:30	0°©			15683 May 26 23:19	$\Pi^{\circ}0$	
greatest brilliancy	15682 Jun 26 00:26	2° © 57'58	-0.7m	morning max el	15683 May 27 18:01	0° Ⅱ 43'31	18°38'09
morning set	15682 Jul 08 14:48	22° © 00'18		desc. node	15683 Jun 07 17:10	15° Ⅱ 10′10	
	15682 Jul 13 19:13	$0^{\circ}\Omega$			15683 Jun 17 07:16	0ංම	
max. Earth dist.	15682 Jul 20 18:59	10° Q 54'34	1.45213 AU	morning set	15683 Jun 18 06:18	1°530'03	
				max. Earth dist.	15683 Jul 03 13:50	25° 5 24'12	1.45909 AU
superior conj	15682 Jul 24 19:33	17° Ω 16'40	-2°08'26				
minimum elong	15682 Jul 25 00:56	17° Ω 38′06	2°08'49	superior conj	15683 Jul 04 07:25	26° © 32'47	-2°13'33
	15682 Aug 01 16:44	0° m y		minimum elong	15683 Jul 04 05:32	26° © 25'26	2°14'20
evening rise	15682 Aug 07 23:34	10° m 22'40			15683 Jul 06 12:30	$0^{\circ}\Omega$	
asc. node	15682 Aug 15 03:02	22° m 12'35		evening rise	15683 Jul 19 21:51	21° Ω 06′05	
	15682 Aug 20 02:06	0∘ ত			15683 Jul 25 12:14	0° m þ	
evening max el	15682 Aug 26 08:46	7° ≙ 59'55	18°10'35	greatest brilliancy	15683 Jul 27 01:52	2° m 28'40	-0.9m
retrograde	15682 Sep 01 17:26	11° ≏ 21'13		asc. node	15683 Aug 01 23:44	11° m 34'02	
evening set	15682 Sep 04 13:25	10° ≏ 38'18		evening max el	15683 Aug 09 21:53	21° m)44'27	18°37'18
inferior conj	15682 Sep 10 15:14	5° ≙ 15'06	1°44'51	retrograde	15683 Aug 16 10:40	25° m 16'03	
minimum elong	15682 Sep 10 17:31	5° ≏ 08'41	1°44'07	evening set	15683 Aug 19 15:51	24° m 17'18	
min. Earth dist.	15682 Sep 13 03:50	2° £ 25'53	0.63796 AU	inferior conj	15683 Aug 25 07:55	18° m 39'12	2°26'58
	15682 Sep 15 14:11	30°R, Mp		minimum elong	15683 Aug 25 10:08	18° m 32'24	2°26'11
morning rise	15682 Sep 16 19:44	28° m 58'07		min. Earth dist.	15683 Aug 27 06:54	16° Mp 15'25	0.65727 AU
desc. node	15682 Sep 16 17:21	29° m 02'44		morning rise	15683 Aug 31 03:17	12° m 14'25	
direct	15682 Sep 23 10:26	26° Mg 25'34		desc. node	15683 Sep 03 14:47	10° m 07'49	
	15682 Oct 02 05:59	0∘ ⊽		direct	15683 Sep 06 12:00	9° m ,36′27	
morning max el	15682 Oct 07 06:45	4° ≙ 24'59	27°40'48	morning max el	15683 Sep 19 18:01	17° m 25'28	26°50'58
	15682 Oct 26 14:37	0° M ₊			15683 Sep 30 06:53	0∘ ⊽	
morning set	15682 Nov 11 04:42	27°M53'58			15683 Oct 19 12:18	0° M	
asc. node	15682 Nov 11 04:33	27°M53'14		morning set	15683 Oct 25 11:23	10° M 58′36	
	15682 Nov 12 05:45	0° ∡ ¹		asc. node	15683 Oct 29 01:21	17° M 58'53	
max. Earth dist.	15682 Nov 16 00:01	7° ∡ ¹47'32	1.32361 AU	max. Earth dist.	15683 Oct 29 13:46	19°ML01'03	1.33864 AU
	150007	1.40 ===	100512		1500077	200m 2-:-	0045:55
superior conj	15682 Nov 19 02:05	14° ∡ ¹24'30 −	1°07'36	superior conj	15683 Nov 03 03:14	28° M ₊23'51	0°45'23
minimum elong	15682 Nov 18 23:44	14° ∡ 11'48 −	1°08'02	minimum elong	15683 Nov 03 01:07	28° M ₁2'49	0°45'42
evening rise	15682 Nov 25 23:11	29° ∡ ¹23'34			15683 Nov 03 21:30	0° ∡ ¹	
	15682 Nov 26 05:58	0°ප		evening rise	15683 Nov 10 09:14	13° ∡ ¹48'07	
	15682 Dec 12 22:50	0° ≈			15683 Nov 18 12:35	0°る	
desc. node	15682 Dec 13 15:02	0°≈53'39	22015125	evening max el	15683 Nov 30 13:38	17° る 03'43	21°35'05
evening max el	15682 Dec 19 00:26	7°≈01'28	23°15'35	desc. node	15683 Nov 30 12:03	16°る59'48	
retrograde	15683 Jan 01 06:55	13°≈35'48		retrograde	15683 Dec 12 17:52	23° ろ 04'58	
evening set	15683 Jan 05 14:49	12°≈55'10	0.54055 :==	evening set	15683 Dec 15 18:47	22°る44'00	#0.#C** *
min. Earth dist.	15683 Jan 12 10:51	9° ≈ 42'53	0.54922 AU	inferior conj	15683 Dec 24 11:20	18°る53'23	
inferior conj	15683 Jan 13 19:30	8°≈55'44		minimum elong	15683 Dec 24 06:21	19°る00'22	
minimum elong	15683 Jan 13 23:46	8°≈49'35	5~53'11	min. Earth dist.	15683 Dec 24 16:22	18°る46'20	0.54408 AU
morning rise	15683 Jan 22 10:09	5°≈04'29		morning rise	15684 Jan 01 18:28	15° る 04'49	
direct	15683 Jan 25 04:43	4°≈46'08	20040150	direct	15684 Jan 05 13:08	14°る33'43	22010105
morning max el	15683 Feb 05 10:18	10° ≈ 11'11	20°40'59	morning max el	15684 Jan 18 04:45	20° る 41'27	22-19.06

1	156041 25 00 22	200746145		11	15604 D 15 00 41	220 75 425	
asc. node	15684 Jan 25 00:33	28° る 46'45		direct	15684 Dec 15 23:41	23° ∡ 54'35	
	15684 Jan 25 20:56	0° ≈			15684 Dec 28 22:05	0°る	
morning set	15684 Feb 08 19:29	25°≈40'24		morning max el	15684 Dec 29 14:10	0° る 37'23	24°08'48
	15684 Feb 10 20:13	0° ∀		asc. node	15685 Jan 10 21:49	16° පි 37'10	
					15685 Jan 18 07:00	0° ≈	
superior conj	15684 Feb 15 20:32	10°) 43′29	1°20'36	morning set	15685 Jan 23 07:28	10° ≈ 24'10	
minimum elong	15684 Feb 15 22:47	10° ¥ 55′22	1°20'43				
max. Earth dist.	15684 Feb 19 16:42	18° ¥ 43'55	1.34033 AU	superior conj	15685 Jan 30 02:42	25° ≈ 14'58	1°32'11
evening rise	15684 Feb 24 02:18	27°) €29'48		minimum elong	15685 Jan 30 04:08	25° ≈ 22'49	1°32'39
	15684 Feb 25 09:37	$0^{\circ}\mathbf{Y}$			15685 Feb 01 07:18	0° ₩	
desc. node	15684 Feb 26 12:42	2° Y '07'38		max. Earth dist.	15685 Feb 01 14:33		1.32544 AU
	15684 Mar 14 08:06	0°B		evening rise	15685 Feb 06 16:16	11°) 13′27	
evening max el	15684 Mar 29 23:44	19° 8 20'59	27°01'24	desc. node	15685 Feb 12 09:18	22°\ 16'34	
retrograde	15684 Apr 12 09:08	26° 8 50'37	27 0124	desc. node	15685 Feb 16 17:02	0° Υ	
•		24° 8 18'58				0° 8	
evening set	15684 Apr 18 22:12	_			15685 Mar 09 21:48		27021142
asc. node	15684 Apr 21 21:28	21° 8 32'56		evening max el	15685 Mar 12 12:34	2° 8 39'50	27°31'43
min. Earth dist.	15684 Apr 22 20:34	20° 8 29'54	0.65706 AU	retrograde	15685 Mar 26 07:08	10° 8 10'20	
inferior conj	15684 Apr 25 02:04	17° 8 56'34	0°58'28	evening set	15685 Apr 02 01:54	7° 8 44'55	
minimum elong	15684 Apr 25 00:36	18° 8 00'46	0°57'21	min. Earth dist.	15685 Apr 05 20:54	4° 8 26'02	0.63832 AU
morning rise	15684 May 01 04:29	12° 8 23'26		inferior conj	15685 Apr 08 14:05	1° 8 37'23	-0°03'43
direct	15684 May 04 00:56	11° 8 39'18		minimum elong	15685 Apr 08 14:13	1° 8 37'03	0°04'03
morning max el	15684 May 10 08:34	14° 8 56'51	18°04'22	transit middle	15685 Apr 08 14:13	1° 8 37'03	0°04'03
morning man vi	15684 May 21 09:07	0°II	10 0.22	transit begin	15685 Apr 08 11:11	1° 8 44'57	0 0.03
desc. node	15684 May 24 14:06	5° Ⅱ 07'57		transit end	15685 Apr 08 17:15	1° 8 29'11	
	-					_	
morning set	15684 May 28 23:18	12° Ⅱ 14'05		asc. node	15685 Apr 08 18:48	1° 8 25'10	
	15684 Jun 09 00:54	0 \circ			15685 Apr 10 04:29	30° ₹Ƴ	
				morning rise	15685 Apr 15 04:52	26° Y 19'06	
superior conj	15684 Jun 12 17:51	5° © 50'47	-1°58'39	direct	15685 Apr 17 16:43	25° Ƴ 48′08	
minimum elong	15684 Jun 12 09:53	5° © 19'30	1°58'58	morning max el	15685 Apr 24 01:58	29° Y ′03'59	17°47'50
max. Earth dist.	15684 Jun 15 10:17	10° © 03'11	1.45859 AU		15685 Apr 24 23:51	0°8	
	15684 Jun 28 07:01	$0^{\circ}\Omega$		morning set	15685 May 10 19:16	24° 8 15'12	
evening rise	15684 Jun 28 20:53	0° Ω 53'25		desc. node	15685 May 11 10:57	25° 8 21'45	
greatest brilliancy	15684 Jul 11 09:16	19° Ω 57'58	-0.7m	4000. 11040	15685 May 14 04:42	0°II	
greatest offinality	15684 Jul 18 11:43	0°m)	-0.7111		13003 Way 14 04.42	νд	
		0.0 m 0.00			15 COS Mars 22 10.02	150TF2146	1000101
asc. node	15684 Jul 18 20:29	0° m/28'27	10000116	superior conj	15685 May 23 19:02	15° Ⅱ 52'46	
evening max el	15684 Jul 23 06:45	5° m 35'37	19°20'46	minimum elong	15685 May 23 10:56	15° Ⅱ 19'56	1°28'13
evening max el retrograde		5° m 35'37 9° m 30'23	19°20'46		•	15° Ⅱ 19'56 24° Ⅱ 36'09	
evening max el	15684 Jul 23 06:45	5° m 35'37	19°20'46	minimum elong	15685 May 23 10:56	15° Ⅱ 19'56	1°28'13
evening max el retrograde	15684 Jul 23 06:45 15684 Jul 30 07:57	5° m 35'37 9° m 30'23		minimum elong	15685 May 23 10:56 15685 May 29 05:50	15° Ⅱ 19'56 24° Ⅱ 36'09	1°28'13
evening max el retrograde evening set	15684 Jul 23 06:45 15684 Jul 30 07:57 15684 Aug 02 22:54	5° m/35'37 9° m/30'23 8° m/14'15	2°53'29	minimum elong max. Earth dist.	15685 May 23 10:56 15685 May 29 05:50 15685 Jun 01 16:13	15°∏19'56 24°∏36'09 0°©	1°28'13
evening max el retrograde evening set inferior conj	15684 Jul 23 06:45 15684 Jul 30 07:57 15684 Aug 02 22:54 15684 Aug 08 08:34	5° m 35'37 9° m 30'23 8° m 14'15 2° m 22'42	2°53'29	minimum elong max. Earth dist.	15685 May 23 10:56 15685 May 29 05:50 15685 Jun 01 16:13 15685 Jun 08 07:51	15°∏19'56 24°∏36'09 0°© 10°©16'53	1°28'13
evening max el retrograde evening set inferior conj minimum elong	15684 Jul 23 06:45 15684 Jul 30 07:57 15684 Aug 02 22:54 15684 Aug 08 08:34 15684 Aug 08 10:08 15684 Aug 09 17:21	5° m 35'37 9° m 30'23 8° m 14'15 2° m 22'42 2° m 17'34	2°53'29 2°52'47	minimum elong max. Earth dist. evening rise	15685 May 23 10:56 15685 May 29 05:50 15685 Jun 01 16:13 15685 Jun 08 07:51 15685 Jun 21 11:39	15°∏19'56 24°∏36'09 0°© 10°©16'53 0°Ω 18°Ω46'28	1°28'13 1.45074 AU
evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	15684 Jul 23 06:45 15684 Jul 30 07:57 15684 Aug 02 22:54 15684 Aug 08 08:34 15684 Aug 08 10:08 15684 Aug 09 17:21 15684 Aug 10 04:21	5° m 35'37 9° m 30'23 8° m 14'15 2° m 22'42 2° m 17'34 0° m 35'20 30° R Ω	2°53'29 2°52'47	minimum elong max. Earth dist. evening rise asc. node evening max el	15685 May 23 10:56 15685 May 29 05:50 15685 Jun 01 16:13 15685 Jun 08 07:51 15685 Jun 21 11:39 15685 Jul 05 17:17 15685 Jul 06 09:47	15°∏19'56 24°∏36'09 0°© 10°©16'53 0°Ω 18°Ω46'28 19°Ω28'37	1°28'13 1.45074 AU
evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	15684 Jul 23 06:45 15684 Jul 30 07:57 15684 Aug 02 22:54 15684 Aug 08 08:34 15684 Aug 08 10:08 15684 Aug 09 17:21 15684 Aug 10 04:21 15684 Aug 13 20:45	5° m 35'37 9° m 30'23 8° m 14'15 2° m 22'42 2° m 17'34 0° m 35'20 30° R \(\Omega\) 25° \(\Omega\) 56'30	2°53'29 2°52'47	minimum elong max. Earth dist. evening rise asc. node evening max el retrograde	15685 May 23 10:56 15685 May 29 05:50 15685 Jun 01 16:13 15685 Jun 08 07:51 15685 Jun 21 11:39 15685 Jul 05 17:17 15685 Jul 06 09:47 15685 Jul 14 06:55	15° \(\Pi\) 19'56 24° \(\Pi\) 36'09 0° \(\Sigma\) 10° \(\Sigma\) 16'53 0° \(\Omega\) 18° \(\Omega\) 46'28 19° \(\Omega\) 28'37 23° \(\Omega\) 58'12	1°28'13 1.45074 AU
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	15684 Jul 23 06:45 15684 Jul 30 07:57 15684 Aug 02 22:54 15684 Aug 08 08:34 15684 Aug 08 10:08 15684 Aug 09 17:21 15684 Aug 10 04:21 15684 Aug 13 20:45 15684 Aug 19 20:05	5° m 35'37 9° m 30'23 8° m 14'15 2° m 22'42 2° m 17'34 0° m 35'20 30° R \Omega 25° \Omega 56'30 23° \Omega 21'53	2°53'29 2°52'47	minimum elong max. Earth dist. evening rise asc. node evening max el retrograde evening set	15685 May 23 10:56 15685 May 29 05:50 15685 Jun 01 16:13 15685 Jun 08 07:51 15685 Jun 21 11:39 15685 Jul 05 17:17 15685 Jul 06 09:47 15685 Jul 14 06:55 15685 Jul 18 08:13	15° \$\Pi\$ 19'56 24° \$\Pi\$ 36'09 0° \$\sigma\$ 10° \$\Sigma\$ 16'53 0° \$\Omega\$ 18° \$\Omega\$ 46'28 19° \$\Omega\$ 28'37 23° \$\Omega\$ 58'12 22° \$\Omega\$ 24'17	1°28'13 1.45074 AU 20°19'27
evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	15684 Jul 23 06:45 15684 Jul 30 07:57 15684 Aug 02 22:54 15684 Aug 08 08:34 15684 Aug 08 10:08 15684 Aug 09 17:21 15684 Aug 10 04:21 15684 Aug 13 20:45 15684 Aug 19 20:05 15684 Aug 20 12:12	5° m 35'37 9° m 30'23 8° m 14'15 2° m 22'42 2° m 17'34 0° m 35'20 30° R \(\Omega\) 25° \(\Omega\) 56'30 23° \(\Omega\) 21'53 23° \(\Omega\) 23'38	2°53'29 2°52'47	minimum elong max. Earth dist. evening rise asc. node evening max el retrograde evening set inferior conj	15685 May 23 10:56 15685 May 29 05:50 15685 Jun 01 16:13 15685 Jun 08 07:51 15685 Jun 21 11:39 15685 Jul 05 17:17 15685 Jul 06 09:47 15685 Jul 14 06:55 15685 Jul 18 08:13 15685 Jul 23 14:30	15° \$\Pi\$ 19'56 24° \$\Pi\$ 36'09 0° \$\Sigma\$ 10° \$\Sigma\$ 16'53 0° \$\Omega\$ 18° \$\Omega\$ 46'28 19° \$\Omega\$ 28'37 23° \$\Omega\$ 58'12 22° \$\Omega\$ 24'17 16° \$\Omega\$ 20'31	1°28'13 1.45074 AU 20°19'27 3°06'46
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	15684 Jul 23 06:45 15684 Jul 30 07:57 15684 Aug 02 22:54 15684 Aug 08 10:08 15684 Aug 09 17:21 15684 Aug 10 04:21 15684 Aug 10 04:21 15684 Aug 19 20:05 15684 Aug 20 12:12 15684 Aug 31 10:56	5° m 35'37 9° m 30'23 8° m 14'15 2° m 22'42 2° m 17'34 0° m 35'20 30° R \(\Omega\) 25° \(\Omega\) 56'30 23° \(\Omega\) 21'53 23° \(\Omega\) 23'38 0° m	2°53'29 2°52'47 0.67271 AU	minimum elong max. Earth dist. evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	15685 May 23 10:56 15685 May 29 05:50 15685 Jun 01 16:13 15685 Jun 08 07:51 15685 Jun 21 11:39 15685 Jul 05 17:17 15685 Jul 06 09:47 15685 Jul 14 06:55 15685 Jul 18 08:13 15685 Jul 23 14:30 15685 Jul 23 15:09	15° \$\Pi\$ 19'56 24° \$\Pi\$ 36'09 0° \$\sigma\$ 10° \$\Sigma\$ 16'53 0° \$\Omega\$ 18° \$\Omega\$ 46'28 19° \$\Omega\$ 28'37 23° \$\Omega\$ 58'12 22° \$\Omega\$ 24'17 16° \$\Omega\$ 20'31 16° \$\Omega\$ 18'18	1°28'13 1.45074 AU 20°19'27 3°06'46 3°06'05
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	15684 Jul 23 06:45 15684 Jul 30 07:57 15684 Aug 02 22:54 15684 Aug 08 08:34 15684 Aug 08 10:08 15684 Aug 09 17:21 15684 Aug 10 04:21 15684 Aug 13 20:45 15684 Aug 20 12:12 15684 Aug 31 10:56 15684 Sep 01 05:10	5° m 35'37 9° m 30'23 8° m 14'15 2° m 22'42 2° m 17'34 0° m 35'20 30° R \(\Omega\) 25° \(\Omega\) 56'30 23° \(\Omega\) 22'53 23° \(\Omega\) 23'38 0° m 0° m 45'18	2°53'29 2°52'47 0.67271 AU	minimum elong max. Earth dist. evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	15685 May 23 10:56 15685 May 29 05:50 15685 Jun 01 16:13 15685 Jun 08 07:51 15685 Jun 21 11:39 15685 Jul 05 17:17 15685 Jul 06 09:47 15685 Jul 14 06:55 15685 Jul 18 08:13 15685 Jul 23 14:30 15685 Jul 23 15:09 15685 Jul 24 09:23	15° \$\Pi\$ 19'56 24° \$\Pi\$ 36'09 0° \$\sigma\$ 10° \$\sigma\$ 16'53 0° \$\Omega\$ 18° \$\Omega\$ 46'28 19° \$\Omega\$ 28'37 23° \$\Omega\$ 58'12 22° \$\Omega\$ 24'17 16° \$\Omega\$ 20'31 16° \$\Omega\$ 18'18 15° \$\Omega\$ 15'55	1°28'13 1.45074 AU 20°19'27 3°06'46
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	15684 Jul 23 06:45 15684 Jul 30 07:57 15684 Aug 02 22:54 15684 Aug 08 08:34 15684 Aug 08 10:08 15684 Aug 09 17:21 15684 Aug 10 04:21 15684 Aug 13 20:45 15684 Aug 19 20:05 15684 Aug 20 12:12 15684 Aug 31 10:56 15684 Sep 01 05:10 15684 Sep 23 05:58	5° m 35'37 9° m 30'23 8° m 14'15 2° m 22'42 2° m 17'34 0° m 35'20 30° R \(\Omega\) 25° \(\Omega\) 56'30 23° \(\Omega\) 22'38 0° m 0° m 45'18 0° \(\Omega\)	2°53'29 2°52'47 0.67271 AU	minimum elong max. Earth dist. evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	15685 May 23 10:56 15685 May 29 05:50 15685 Jun 01 16:13 15685 Jun 08 07:51 15685 Jun 21 11:39 15685 Jul 05 17:17 15685 Jul 06 09:47 15685 Jul 14 06:55 15685 Jul 18 08:13 15685 Jul 23 14:30 15685 Jul 23 15:09 15685 Jul 24 09:23 15685 Jul 28 21:45	15° \$\Pi\$ 19'56 24° \$\Pi\$ 36'09 0° \$\pi\$ 10° \$\pi\$ 16'53 0° \$\Omega\$ 18° \$\Omega\$ 46'28 19° \$\Omega\$ 28'37 23° \$\Omega\$ 58'12 22° \$\Omega\$ 24'17 16° \$\Omega\$ 20'31 16° \$\Omega\$ 18'18 15° \$\Omega\$ 15'55 9° \$\Omega\$ 57'06	1°28'13 1.45074 AU 20°19'27 3°06'46 3°06'05
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	15684 Jul 23 06:45 15684 Jul 30 07:57 15684 Aug 02 22:54 15684 Aug 08 08:34 15684 Aug 08 10:08 15684 Aug 09 17:21 15684 Aug 10 04:21 15684 Aug 13 20:45 15684 Aug 20 12:12 15684 Aug 31 10:56 15684 Sep 01 05:10	5° m 35'37 9° m 30'23 8° m 14'15 2° m 22'42 2° m 17'34 0° m 35'20 30° R \(\Omega\) 25° \(Omega\) 56'30 23° \(Omega\) 22'53 23° \(Omega\) 0° m 0° m 45'18 0° \(Omega\) 23° \(Omega\) 23'57	2°53'29 2°52'47 0.67271 AU	minimum elong max. Earth dist. evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	15685 May 23 10:56 15685 May 29 05:50 15685 Jun 01 16:13 15685 Jun 08 07:51 15685 Jun 21 11:39 15685 Jul 05 17:17 15685 Jul 06 09:47 15685 Jul 14 06:55 15685 Jul 18 08:13 15685 Jul 23 14:30 15685 Jul 23 15:09 15685 Jul 24 09:23 15685 Jul 28 21:45 15685 Aug 03 09:44	15° \$\Pi\$ 19'56 24° \$\Pi\$ 36'09 0° \$\Pi\$ 10° \$\Pi\$ 16'53 0° \$\Omega\$ 18° \$\Omega\$ 46'28 19° \$\Omega\$ 28'37 23° \$\Omega\$ 58'12 22° \$\Omega\$ 24'17 16° \$\Omega\$ 20'31 16° \$\Omega\$ 15'55 9° \$\Omega\$ 57'06 7° \$\Omega\$ 32'56	1°28'13 1.45074 AU 20°19'27 3°06'46 3°06'05
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evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node retrograde	15684 Jul 23 06:45 15684 Jul 30 07:57 15684 Aug 02 22:54 15684 Aug 08 08:34 15684 Aug 09 10:08 15684 Aug 09 17:21 15684 Aug 10 04:21 15684 Aug 13 20:45 15684 Aug 19 20:05 15684 Aug 20 12:12 15684 Aug 31 10:56 15684 Sep 01 05:10 15684 Sep 01 05:10 15684 Oct 07 03:44 15684 Oct 10 17:06 15684 Oct 10 17:06 15684 Oct 10 18:15 15684 Oct 16 18:57 15684 Oct 16 18:57 15684 Oct 24 16:24 15684 Nov 14 06:13 15684 Nov 14 06:13 15684 Nov 16 09:09 15684 Nov 22 05:37 15684 Nov 24 09:30	5° m 35'37 9° m 30'23 8° m 14'15 2° m 22'42 2° m 17'34 0° m 35'20 30° k \(\Omega \) 25° \(\Omega \) 56'30 23° \(\Omega \) 22'53 23° \(\Omega \) 23'38 0° m 0° m 45'18 0° \(\Omega \) 23° \(\Omega \) 23'57 0° m 0° m 05'23 8° m 08'43 11° m 57'41 11° m 52'30 28° m 03'55 0° \(\omega \) 27° \(\omega \) 41'07 0° \(\omega \) 1° \(\omega \) 22'57 2° \(\omega \) 36'61'9	2°53'29 2°52'47 0.67271 AU 25°38'34 1.35853 AU 0°17'23 0°17'42 20°09'59	minimum elong max. Earth dist. evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end asc. node	15685 May 23 10:56 15685 May 29 05:50 15685 Jun 01 16:13 15685 Jun 08 07:51 15685 Jun 05 17:17 15685 Jul 06 09:47 15685 Jul 14 06:55 15685 Jul 18 08:13 15685 Jul 23 14:30 15685 Jul 23 15:09 15685 Jul 24 09:23 15685 Jul 28 21:45 15685 Aug 03 09:44 15685 Aug 07 09:36 15685 Aug 07 09:36 15685 Aug 14 16:01 15685 Aug 27 11:45 15685 Sep 16 02:47 15685 Sep 19 01:36 15685 Sep 22 17:28 15685 Sep 30 00:55 15685 Sep 30 01:59 15685 Sep 30 04:23 15685 Oct 01 18:44 15685 Oct 02 15:30	15° \$\Pi\$ 19'56 24° \$\Pi\$ 36'09 0° \$\Pi\$ 10° \$\Pi\$ 16'53 0° \$\Omega\$ 18° \$\Omega\$ 46'28 19° \$\Omega\$ 28'37 23° \$\Omega\$ 58'12 22° \$\Omega\$ 24'17 16° \$\Omega\$ 20'31 16° \$\Omega\$ 18'18 15° \$\Omega\$ 15'55 9° \$\Omega\$ 55'706 7° \$\Omega\$ 32'56 8° \$\Omega\$ 35'19 14° \$\Omega\$ 16'58 0° \$\Pi\$ 0° \$\Pi\$ 5° \$\Omega\$ 00'40 11° \$\Omega\$ 26'01 24° \$\Omega\$ 57'39 25° \$\Omega\$ 002'43 24° \$\Omega\$ 51'13 25° \$\Omega\$ 14'14 28° \$\Omega\$ 19'02 0° \$\Pi\$.	1°28'13 1.45074 AU 20°19'27 3°06'46 3°06'05 0.68361 AU 24°13'05 1.38167 AU -0°15'38
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set inferior conj	15684 Jul 23 06:45 15684 Jul 30 07:57 15684 Aug 02 22:54 15684 Aug 08 08:34 15684 Aug 08 10:08 15684 Aug 09 17:21 15684 Aug 10 04:21 15684 Aug 10 04:21 15684 Aug 19 20:05 15684 Aug 20 12:12 15684 Aug 31 10:56 15684 Sep 01 05:10 15684 Sep 01 05:10 15684 Oct 07 03:44 15684 Oct 10 17:06 15684 Oct 10 18:15 15684 Oct 16 19:59 15684 Oct 16 18:57 15684 Oct 24 16:24 15684 Oct 24 16:24 15684 Nov 14 06:13 15684 Nov 14 06:13 15684 Nov 14 06:13 15684 Nov 14 09:30 15684 Nov 24 09:30 15684 Dec 01 05:00 15684 Dec 01 05:00 15684 Dec 01 05:00	5° m 35'37 9° m 30'23 8° m 14'15 2° m 22'42 2° m 17'34 0° m 35'20 30° R \(\Omega \) 25° \(\Omega \) 56'30 23° \(\Omega \) 22'53 23° \(\Omega \) 23'57 0° m 0° m 45'18 0° \(\Omega \) 23° \(\Omega \) 23'57 0° m 0° m 05'23 8° m 08'43 11° m 57'41 11° m 52'30 28° m 03'55 0° \(\omega \) 27° \(\omega \) 41'07 0° \(\omega \) 27° \(\omega \) 41'07 0° \(\omega \) 27° \(\omega \) 44'07 0° \(\omega \) 28° \(\omega \) 22'57 2° \(\omega \) 46'19 30° \(\omega \)	2°53'29 2°52'47 0.67271 AU 25°38'34 1.35853 AU 0°17'23 0°17'42 20°09'59	minimum elong max. Earth dist. evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end asc. node evening rise	15685 May 23 10:56 15685 May 29 05:50 15685 Jun 01 16:13 15685 Jun 08 07:51 15685 Jun 05 17:17 15685 Jul 06 09:47 15685 Jul 14 06:55 15685 Jul 18 08:13 15685 Jul 23 14:30 15685 Jul 23 15:09 15685 Jul 24 09:23 15685 Jul 24 09:23 15685 Aug 07 09:36 15685 Aug 07 09:36 15685 Aug 07 09:36 15685 Aug 14 16:01 15685 Aug 27 11:45 15685 Sep 16 02:47 15685 Sep 19 01:36 15685 Sep 22 17:28 15685 Sep 30 00:55 15685 Sep 30 01:59 15685 Sep 30 04:23 15685 Oct 01 18:44 15685 Oct 02 15:30 15685 Oct 08 18:13 15685 Oct 08 18:13	15° \$\Pi\$ 19'56 24° \$\Pi\$ 36'09 0° \$\Pi\$ 10° \$\Pi\$ 16'53 0° \$\Omega\$ 18° \$\Omega\$ 46'28 19° \$\Omega\$ 228'37 23° \$\Omega\$ 58'12 22° \$\Omega\$ 24'17 16° \$\Omega\$ 20'31 16° \$\Omega\$ 18'18 15° \$\Omega\$ 5'55 9° \$\Omega\$ 57'06 7° \$\Omega\$ 32'56 8° \$\Omega\$ 33'19 14° \$\Omega\$ 16'58 0° \$\Pi\$ 0° \$\Pi\$ 5° \$\Omega\$ 00'40 11° \$\Omega\$ 26'01 24° \$\Omega\$ 57'39 25° \$\Omega\$ 002'43 24° \$\Omega\$ 51'13 25° \$\Omega\$ 14'14 28° \$\Omega\$ 19'02 0° \$\Pi\$ 12° \$\Pi\$ 004'44	1°28'13 1.45074 AU 20°19'27 3°06'46 3°06'05 0.68361 AU 24°13'05 1.38167 AU -0°15'38
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong	15684 Jul 23 06:45 15684 Jul 30 07:57 15684 Aug 02 22:54 15684 Aug 08 08:34 15684 Aug 08 10:08 15684 Aug 09 17:21 15684 Aug 10 04:21 15684 Aug 11 20:45 15684 Aug 12 12:12 15684 Aug 13 10:56 15684 Aug 20 12:12 15684 Aug 20 12:12 15684 Aug 21 10:56 15684 Aug 21 10:56 15684 Oct 07 03:44 15684 Oct 10 17:06 15684 Oct 10 18:15 15684 Oct 14 22:05 15684 Oct 16 18:57 15684 Oct 16 18:57 15684 Oct 16 18:57 15684 Oct 24 16:24 15684 Oct 25 15:04 15684 Nov 14 06:13 15684 Nov 14 06:13 15684 Nov 14 06:37 15684 Nov 14 06:37 15684 Nov 14 06:37 15684 Nov 24 09:30 15684 Nov 24 09:30 15684 Dec 01 05:00 15684 Dec 03 05:11 15684 Dec 02 19:11	5° m35'37 9° m30'23 8° m14'15 2° m22'42 2° m17'34 0° m35'20 30° RA 25° A56'30 23° A21'53 23° A23'38 0° m 0° m45'18 0° a 23° a23'57 0° m 0° m05'23 8° m08'43 11° m57'41 11° m52'30 28° m03'55 0° x 27° x 41'07 0° 3 1° 322'57 2° 558'27 2° 546'19 30° R x 28° x 49'24 29° x 04'18	2°53'29 2°52'47 0.67271 AU 25°38'34 1.35853 AU 0°17'23 0°17'42 20°09'59	minimum elong max. Earth dist. evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end asc. node evening rise evening max el	15685 May 23 10:56 15685 May 29 05:50 15685 Jun 01 16:13 15685 Jun 08 07:51 15685 Jun 05 17:17 15685 Jul 06 09:47 15685 Jul 14 06:55 15685 Jul 18 08:13 15685 Jul 23 14:30 15685 Jul 23 15:09 15685 Jul 24 09:23 15685 Jul 28 21:45 15685 Aug 07 09:36 15685 Aug 07 09:36 15685 Aug 14 16:01 15685 Aug 27 11:45 15685 Sep 16 02:47 15685 Sep 19 01:36 15685 Sep 22 17:28 15685 Sep 30 00:55 15685 Sep 30 00:55 15685 Sep 30 01:59 15685 Oct 01 18:44 15685 Oct 02 15:30 15685 Oct 08 18:13 15685 Oct 18 09:57 15685 Oct 18 09:57	15° \$\Pi\$ 19'56 24° \$\Pi\$ 36'09 0° \$\Pi\$ 10° \$\Pi\$ 16'53 0° \$\Omega\$ 18° \$\Omega\$ 46'28 19° \$\Omega\$ 228'37 23° \$\Omega\$ 58'12 22° \$\Omega\$ 224'17 16° \$\Omega\$ 20'31 16° \$\Omega\$ 18'18 15° \$\Omega\$ 15'55 9° \$\Omega\$ 57'06 7° \$\Omega\$ 32'56 8° \$\Omega\$ 35'19 14° \$\Omega\$ 16'58 0° \$\Pi\$ 0° \$\Omega\$ 5° \$\Omega\$ 00'40 11° \$\Omega\$ 26'01 24° \$\Omega\$ 57'39 25° \$\Omega\$ 002'43 24° \$\Omega\$ 51'13 25° \$\Omega\$ 14'14 28° \$\Omega\$ 19'02 0° \$\Pi\$ 12° \$\Pi\$ 104'44 0° \$\neq\$' 9° \$\neq\$ 08'00	1°28'13 1.45074 AU 20°19'27 3°06'46 3°06'05 0.68361 AU 24°13'05 1.38167 AU -0°15'38 0°15'10
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set inferior conj	15684 Jul 23 06:45 15684 Jul 30 07:57 15684 Aug 02 22:54 15684 Aug 08 08:34 15684 Aug 08 10:08 15684 Aug 09 17:21 15684 Aug 10 04:21 15684 Aug 10 04:21 15684 Aug 19 20:05 15684 Aug 20 12:12 15684 Aug 31 10:56 15684 Sep 01 05:10 15684 Sep 01 05:10 15684 Oct 07 03:44 15684 Oct 10 17:06 15684 Oct 10 18:15 15684 Oct 16 19:59 15684 Oct 16 18:57 15684 Oct 24 16:24 15684 Oct 24 16:24 15684 Nov 14 06:13 15684 Nov 14 06:13 15684 Nov 14 06:13 15684 Nov 14 09:30 15684 Nov 24 09:30 15684 Dec 01 05:00 15684 Dec 01 05:00 15684 Dec 01 05:00	5° m 35'37 9° m 30'23 8° m 14'15 2° m 22'42 2° m 17'34 0° m 35'20 30° R \(\Omega \) 25° \(\Omega \) 25° \(\Omega \) 23° \(\Omega \) 23' \(2°53'29 2°52'47 0.67271 AU 25°38'34 1.35853 AU 0°17'23 0°17'42 20°09'59	minimum elong max. Earth dist. evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end asc. node evening rise	15685 May 23 10:56 15685 May 29 05:50 15685 Jun 01 16:13 15685 Jun 08 07:51 15685 Jun 05 17:17 15685 Jul 06 09:47 15685 Jul 14 06:55 15685 Jul 18 08:13 15685 Jul 23 14:30 15685 Jul 23 15:09 15685 Jul 24 09:23 15685 Jul 24 09:23 15685 Aug 07 09:36 15685 Aug 07 09:36 15685 Aug 07 09:36 15685 Aug 14 16:01 15685 Aug 27 11:45 15685 Sep 16 02:47 15685 Sep 19 01:36 15685 Sep 22 17:28 15685 Sep 30 00:55 15685 Sep 30 01:59 15685 Sep 30 04:23 15685 Oct 01 18:44 15685 Oct 02 15:30 15685 Oct 08 18:13 15685 Oct 08 18:13	15° \$\Pi\$ 19'56 24° \$\Pi\$ 36'09 0° \$\Pi\$ 10° \$\Pi\$ 16'53 0° \$\Omega\$ 18° \$\Omega\$ 46'28 19° \$\Omega\$ 28'37 23° \$\Omega\$ 58'12 22° \$\Omega\$ 24'17 16° \$\Omega\$ 20'31 16° \$\Omega\$ 18'18 15° \$\Omega\$ 15'55 9° \$\Omega\$ 57'06 7° \$\Omega\$ 32'56 8° \$\Omega\$ 33'19 14° \$\Omega\$ 16'58 0° \$\Pi\$ 0° \$\Pi\$ 5° \$\Pi\$ 00'40 11° \$\Pi\$ 26'01 24° \$\Pi\$ 57'39 25° \$\Pi\$ 02'43 24° \$\Pi\$ 51'13 25° \$\Pi\$ 14'14 28° \$\Pi\$ 19'02 0° \$\Pi\$ 12° \$\Pi\$ 04'44 0° \$\neq\$	1°28'13 1.45074 AU 20°19'27 3°06'46 3°06'05 0.68361 AU 24°13'05 1.38167 AU -0°15'38 0°15'10

	15605 N 05 04 02	120 72002			15(0)(0) + 25 20 52	200M 20140	1020150
evening set	15685 Nov 05 04:02	13°×729'22		inferior conj	15686 Oct 25 20:52	20°M28'40	
inferior conj	15685 Nov 13 14:17	9° ∡ 15'43		minimum elong	15686 Oct 25 17:20	20°M35'43	1°28'55
minimum elong	15685 Nov 13 06:16	9° ∡ ′29′23	3°11'22	min. Earth dist.	15686 Oct 29 02:32	17° M 54'39	0.58032 AU
min. Earth dist.	15685 Nov 16 08:57	7° ∡ ¹22'17	0.56116 AU	morning rise	15686 Nov 02 04:04	15° M ₊14'05	
morning rise	15685 Nov 21 05:55	4° ∡ ³38′23		direct	15686 Nov 08 10:36	13°M32'35	
direct	15685 Nov 26 21:47	3° ∡ ¹23'59		morning max el	15686 Nov 22 17:24	21°ML06'49	27°10'45
morning max el	15685 Dec 11 00:17	10° ∡ ³35′18	25°52'16		15686 Nov 30 11:16	0° ∡ ¹	
S	15685 Dec 25 18:12	0°₹		asc. node	15686 Dec 15 16:04	24° ∡ ¹21'23	
asc. node	15685 Dec 28 18:59	5° る 12'33			15686 Dec 18 13:53	0°ප	
morning set	15686 Jan 07 18:50	25° ට 01'40		morning set	15686 Dec 23 03:47	9° ろ 28'26	
morning set		25 3 01 40 0° ≈		morning set	13080 Dec 23 03.47	9 02820	
	15686 Jan 10 01:34	0°≈			15(0(D 20 22 51	240-722105	1026157
				superior conj	15686 Dec 29 23:51	24° る 33'05	1°36'57
superior conj	15686 Jan 14 12:27	9° ≈ 53'17	1°37'36	minimum elong	15686 Dec 29 23:12	24° る 29'30	1°37'44
minimum elong	15686 Jan 14 12:52	9° ≈ 55'35	1°38'18	max. Earth dist.	15686 Dec 30 02:02	24° る 45'20	1.31061 AU
max. Earth dist.	15686 Jan 15 18:39	12° ≈ 40'46	1.31539 AU		15687 Jan 01 10:21	0°≈	
evening rise	15686 Jan 21 14:39	25° ≈ 16′08		evening rise	15687 Jan 05 19:07	9° ≈ 32'31	
	15686 Jan 23 21:57	0°) €			15687 Jan 16 05:42	0° ∀	
desc. node	15686 Jan 30 05:56	12° ¥ 06'57		desc. node	15687 Jan 17 02:39	1° ¥ 31'40	
	15686 Feb 10 06:00	0° Υ		evening max el	15687 Feb 05 01:44	27°) 18'49	26°57'22
evening max el	15686 Feb 22 22:01	15° Y ′22'42	27°31'47	evening man er	15687 Feb 08 04:01	0°Υ	20 0 / 22
retrograde	15686 Mar 08 21:15	22° Υ '47'45	2/ 31 4/	retrograde	15687 Feb 19 02:22	4° Υ '34'02	
•				•			
evening set	15686 Mar 15 17:02	20° Y 35'56		evening set	15687 Feb 25 16:27	2° Υ '43'22	
min. Earth dist.	15686 Mar 19 11:30		0.61691 AU	min. Earth dist.	15687 Mar 01 15:54	0° Υ 03'08	0.59442 AU
inferior conj	15686 Mar 22 13:40	14° Ƴ 51'15			15687 Mar 01 17:32	30° ₹	
minimum elong	15686 Mar 22 16:28	14° Ƴ 44'49	1°18'19	inferior conj	15687 Mar 04 21:08	27° ∺ 28'42	-2°45'49
asc. node	15686 Mar 26 16:10	11° Y 26'30		minimum elong	15687 Mar 05 03:24	27° ∺ 16′06	2°43'18
morning rise	15686 Mar 29 19:03	9° Ƴ 50'42		morning rise	15687 Mar 12 17:53	22°) 48′23	
direct	15686 Mar 31 23:42	9° Y ′29'35		asc. node	15687 Mar 13 13:34	22° ∺ 38'42	
morning max el	15686 Apr 07 19:08	12° Y 55'17	17°49'08	direct	15687 Mar 14 17:47	22°) € 33′28	
	15686 Apr 19 10:26	0°8		morning max el	15687 Mar 22 08:31	26° ¥ 20'30	18°09'19
morning set	15686 Apr 23 13:10	7° 8 17'21		morning max cr	15687 Mar 25 12:35	0° Υ	10 07 17
•	=	15° 8 45'57		marning got		21° Υ 03'18	
desc. node	15686 Apr 28 07:41	15 645 57		morning set	15687 Apr 06 23:10		
					15687 Apr 11 18:12	0°8	
superior conj	15686 May 04 19:09	26° 8 58'37		desc. node	15687 Apr 15 04:22	6° 8 16'27	
minimum elong	15686 May 04 14:28	26° 8 38'45	0°50'46				
minimum elong	15686 May 04 14:28 15686 May 06 14:11	26° 8 38'45 0° П	0°50'46	superior conj	15687 Apr 16 18:10	9° 8 06'40	-0°12'58
max. Earth dist.	-		0°50'46 1.43631 AU	superior conj minimum elong	15687 Apr 16 18:10 15687 Apr 16 17:06	_	-0°12'58 0°13'15
	15686 May 06 14:11	$\Pi^{\circ}0$			15687 Apr 16 17:06	_	
max. Earth dist.	15686 May 06 14:11 15686 May 11 21:42 15686 May 18 23:20	0° П 8° П 45′28		minimum elong	15687 Apr 16 17:06 15687 Apr 16 12:49	9° 8 01'53 8° 8 42'40	
max. Earth dist.	15686 May 06 14:11 15686 May 11 21:42 15686 May 18 23:20 15686 May 25 12:25	0°Ⅱ 8°Ⅱ45'28 19°Ⅱ58'48 0°໑		minimum elong behind sun begin behind sun end	15687 Apr 16 17:06 15687 Apr 16 12:49 15687 Apr 16 21:24	9° 8 01'53 8° 8 42'40 9° 8 21'04	0°13'15
max. Earth dist. evening rise	15686 May 06 14:11 15686 May 11 21:42 15686 May 18 23:20 15686 May 25 12:25 15686 Jun 16 04:27	0°Ⅱ 8°Ⅲ45′28 19°Ⅲ58′48 0°ᢒ 0°Ω	1.43631 AU	minimum elong behind sun begin behind sun end max. Earth dist.	15687 Apr 16 17:06 15687 Apr 16 12:49 15687 Apr 16 21:24 15687 Apr 24 08:38	9°801'53 8°842'40 9°821'04 22°818'06	
max. Earth dist. evening rise	15686 May 06 14:11 15686 May 11 21:42 15686 May 18 23:20 15686 May 25 12:25 15686 Jun 16 04:27 15686 Jun 19 06:47	0°∏ 8°∏45'28 19°∏58'48 0°© 0°Ω 3°Ω21'23	1.43631 AU	minimum elong behind sun begin behind sun end	15687 Apr 16 17:06 15687 Apr 16 12:49 15687 Apr 16 21:24 15687 Apr 24 08:38 15687 Apr 29 07:53	9°801'53 8°842'40 9°821'04 22°818'06 0°∏29'14	0°13'15
max. Earth dist. evening rise evening max el asc. node	15686 May 06 14:11 15686 May 11 21:42 15686 May 18 23:20 15686 May 25 12:25 15686 Jun 16 04:27 15686 Jun 19 06:47 15686 Jun 22 14:10	0°II 8°II45'28 19°II58'48 0°S 0°I 3°I21'23 6°I16'01	1.43631 AU	minimum elong behind sun begin behind sun end max. Earth dist.	15687 Apr 16 17:06 15687 Apr 16 12:49 15687 Apr 16 21:24 15687 Apr 24 08:38 15687 Apr 29 07:53 15687 Apr 29 00:40	9°801'53 8°842'40 9°821'04 22°818'06 0°∏29'14 0°∏	0°13'15
max. Earth dist. evening rise evening max el asc. node retrograde	15686 May 06 14:11 15686 May 11 21:42 15686 May 18 23:20 15686 May 25 12:25 15686 Jun 16 04:27 15686 Jun 19 06:47 15686 Jun 22 14:10 15686 Jun 28 05:38	0°II 8°II45'28 19°II58'48 0°© 0°I 3°I21'23 6°I16'01 8°I33'56	1.43631 AU	minimum elong behind sun begin behind sun end max. Earth dist. evening rise	15687 Apr 16 17:06 15687 Apr 16 12:49 15687 Apr 16 21:24 15687 Apr 24 08:38 15687 Apr 29 07:53 15687 Apr 29 00:40 15687 May 18 23:34	9°801'53 8°842'40 9°821'04 22°818'06 0°∏29'14 0°∏	0°13'15 1.41690 AU
max. Earth dist. evening rise evening max el asc. node retrograde evening set	15686 May 06 14:11 15686 May 11 21:42 15686 May 18 23:20 15686 May 25 12:25 15686 Jun 16 04:27 15686 Jun 19 06:47 15686 Jun 22 14:10 15686 Jun 28 05:38 15686 Jul 02 17:53	0° II 8° II 45'28 19° II 58'48 0° II 3° \Omega 21'23 6° \Omega 16'01 8° \Omega 33'56 6° \Omega 42'55	1.43631 AU 21°30'39	minimum elong behind sun begin behind sun end max. Earth dist. evening rise	15687 Apr 16 17:06 15687 Apr 16 12:49 15687 Apr 16 21:24 15687 Apr 24 08:38 15687 Apr 29 07:53 15687 Apr 29 00:40 15687 May 18 23:34 15687 Jun 01 23:12	9°801'53 8°842'40 9°821'04 22°818'06 0°Π29'14 0°Π 0°95 17°9314'40	0°13'15
max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj	15686 May 06 14:11 15686 May 11 21:42 15686 May 18 23:20 15686 May 25 12:25 15686 Jun 16 04:27 15686 Jun 19 06:47 15686 Jun 22 14:10 15686 Jun 28 05:38 15686 Jul 02 17:53 15686 Jul 07 23:27	0°∏ 8°∏45'28 19°∏58'48 0°₷ 0°Д 3°Д21'23 6°Д16'01 8°Д33'56 6°Д42'55 0°Д28'30	1.43631 AU 21°30'39 3°08'28	minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node	15687 Apr 16 17:06 15687 Apr 16 12:49 15687 Apr 16 21:24 15687 Apr 24 08:38 15687 Apr 29 07:53 15687 Apr 29 00:40 15687 May 18 23:34 15687 Jun 01 23:12 15687 Jun 09 11:08	9°801'53 8°842'40 9°821'04 22°818'06 0°1129'14 0°11 0°5 17°514'40 22°541'29	0°13'15 1.41690 AU
max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong	15686 May 06 14:11 15686 May 11 21:42 15686 May 18 23:20 15686 May 25 12:25 15686 Jun 16 04:27 15686 Jun 19 06:47 15686 Jun 22 14:10 15686 Jun 28 05:38 15686 Jul 02 17:53 15686 Jul 07 23:27 15686 Jul 07 23:08	0°∏ 8°∏45'28 19°∏58'48 0°‰ 0°Ω 3°Ω21'23 6°Ω16'01 8°Ω33'56 6°Ω42'55 0°Ω28'30 0°Ω29'36	1.43631 AU 21°30'39 3°08'28 3°07'42	minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node retrograde	15687 Apr 16 17:06 15687 Apr 16 12:49 15687 Apr 16 21:24 15687 Apr 24 08:38 15687 Apr 29 07:53 15687 Apr 29 00:40 15687 May 18 23:34 15687 Jun 01 23:12 15687 Jun 09 11:08 15687 Jun 12 02:29	9°801'53 8°842'40 9°821'04 22°818'06 0°1129'14 0°11 0°5 17°514'40 22°541'29 23°511'47	0°13'15 1.41690 AU
max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj	15686 May 06 14:11 15686 May 11 21:42 15686 May 18 23:20 15686 May 25 12:25 15686 Jun 16 04:27 15686 Jun 19 06:47 15686 Jun 22 14:10 15686 Jun 28 05:38 15686 Jul 02 17:53 15686 Jul 07 23:27	0°∏ 8°∏45'28 19°∏58'48 0°₷ 0°Д 3°Д21'23 6°Д16'01 8°Д33'56 6°Д42'55 0°Д28'30	1.43631 AU 21°30'39 3°08'28	minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node	15687 Apr 16 17:06 15687 Apr 16 12:49 15687 Apr 16 21:24 15687 Apr 24 08:38 15687 Apr 29 07:53 15687 Apr 29 00:40 15687 May 18 23:34 15687 Jun 01 23:12 15687 Jun 09 11:08	9°801'53 8°842'40 9°821'04 22°818'06 0°1129'14 0°11 0°5 17°514'40 22°541'29	0°13'15 1.41690 AU 22°49'55
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max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	15686 May 06 14:11 15686 May 11 21:42 15686 May 12 23:20 15686 May 25 12:25 15686 Jun 16 04:27 15686 Jun 22 14:10 15686 Jun 22 14:10 15686 Jul 02 17:53 15686 Jul 07 23:27 15686 Jul 07 23:08 15686 Jul 08 04:57 15686 Jul 08 07:37 15686 Jul 13 04:11 15686 Jul 13 04:11 15686 Jul 25 06:56 15686 Jul 28 03:55 15686 Jul 28 03:55 15686 Aug 21 02:43 15686 Aug 31 01:00 15686 Sep 04 17:12 15686 Sep 08 12:20	0°II 8°II45'28 19°II58'48 0°© 0°A 3°A21'23 6°A16'01 8°A33'56 6°A42'55 0°A28'30 0°A29'36 0°A09'19 30°R© 24°©10'34 22°©01'51 25°©18'29 27°©56'51 0°A 0°ID 15°ID 15°ID 15°ID 15°ID 15°ID 15°ID	1.43631 AU 21°30'39 3°08'28 3°07'42 0.68971 AU 22°43'50 1.40556 AU -0°51'47	minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set	15687 Apr 16 17:06 15687 Apr 16 12:49 15687 Apr 16 21:24 15687 Apr 24 08:38 15687 Apr 29 07:53 15687 Apr 29 00:40 15687 May 18 23:34 15687 Jun 01 23:12 15687 Jun 12 02:29 15687 Jun 12 02:29 15687 Jun 12 02:08 15687 Jun 22 09:23 15687 Jun 22 09:23 15687 Jun 22 01:52 15687 Jun 27 14:06 15687 Jul 02 01:36 15687 Jul 10 19:28 15687 Jul 10 19:28 15687 Jul 25 04:13 15687 Jul 25 04:15 15687 Aug 11 00:24 15687 Aug 13 23:47	9°801'53 8°842'40 9°821'04 22°818'06 0°1129'14 0°11 0°9 17°914'40 22°941'29 23°911'47 21°905'21 14°942'18 14°946'27 15°908'24 8°931'42 6°941'29 11°945'00 13°910'03 0°0 25°017'34 0°10	0°13'15 1.41690 AU 22°49'55 2°59'31 2°58'32 0.69100 AU 21°18'57
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.	15686 May 06 14:11 15686 May 11 21:42 15686 May 18 23:20 15686 May 25 12:25 15686 Jun 16 04:27 15686 Jun 22 14:10 15686 Jun 22 14:10 15686 Jul 02 17:53 15686 Jul 07 23:27 15686 Jul 07 23:08 15686 Jul 08 04:57 15686 Jul 08 07:37 15686 Jul 13 04:11 15686 Jul 13 04:11 15686 Jul 25 06:56 15686 Jul 28 03:55 15686 Jul 28 03:55 15686 Aug 21 02:43 15686 Aug 31 01:00 15686 Sep 04 17:12 15686 Sep 08 12:20	0°II 8°II45'28 19°II58'48 0°© 0°A 3°A21'23 6°A16'01 8°A33'56 6°A42'55 0°A28'30 0°A29'36 0°A09'19 30°R© 24°©10'34 22°©01'51 25°©18'29 27°©56'51 0°A 0°ID 15°ID 39'53 23°ID 27'11 0°Ω	1.43631 AU 21°30'39 3°08'28 3°07'42 0.68971 AU 22°43'50 1.40556 AU -0°51'47	minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	15687 Apr 16 17:06 15687 Apr 16 12:49 15687 Apr 16 21:24 15687 Apr 24 08:38 15687 Apr 29 07:53 15687 Apr 29 00:40 15687 May 18 23:34 15687 Jun 01 23:12 15687 Jun 12 02:29 15687 Jun 17 02:08 15687 Jun 22 09:23 15687 Jun 22 09:23 15687 Jun 22 01:52 15687 Jun 27 14:06 15687 Jul 02 01:36 15687 Jul 10 19:28 15687 Jul 10 19:28 15687 Jul 25 04:15 15687 Aug 11 00:24 15687 Aug 13 23:47 15687 Aug 17 22:04	9°801'53 8°842'40 9°821'04 22°818'06 0°1129'14 0°11 0°5 17°514'40 22°541'29 23°511'47 21°505'21 14°542'18 14°546'27 15°508'24 8°531'42 6°541'29 11°545'00 13°510'03 0°10 25°11'34 0°10 6°1020'24	0°13'15 1.41690 AU 22°49'55 2°59'31 2°58'32 0.69100 AU 21°18'57 1.42750 AU -1°27'35
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.	15686 May 06 14:11 15686 May 11 21:42 15686 May 18 23:20 15686 May 25 12:25 15686 Jun 16 04:27 15686 Jun 22 14:10 15686 Jun 22 14:10 15686 Jul 02 17:53 15686 Jul 07 23:27 15686 Jul 07 23:27 15686 Jul 08 04:57 15686 Jul 08 07:37 15686 Jul 13 04:11 15686 Jul 18 03:56 15686 Jul 25 06:56 15686 Jul 28 03:55 15686 Jul 28 03:55 15686 Jul 30 02:37 15686 Aug 21 02:43 15686 Sep 04 17:12 15686 Sep 08 12:20	0°II 8°II45'28 19°II58'48 0°© 0°A 3°A21'23 6°A16'01 8°A33'56 6°A42'55 0°A28'30 0°A29'36 0°A09'19 30°R© 24°©10'34 22°©01'51 25°©18'29 27°©56'51 0°A 0°IN 15°IN39'53 23°IN27'11 0°Ω 7°Ω14'30 7°Ω32'49	1.43631 AU 21°30'39 3°08'28 3°07'42 0.68971 AU 22°43'50 1.40556 AU -0°51'47	minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	15687 Apr 16 17:06 15687 Apr 16 12:49 15687 Apr 16 21:24 15687 Apr 24 08:38 15687 Apr 29 07:53 15687 Apr 29 00:40 15687 May 18 23:34 15687 Jun 01 23:12 15687 Jun 12 02:29 15687 Jun 17 02:08 15687 Jun 22 09:23 15687 Jun 22 09:23 15687 Jun 22 01:52 15687 Jun 22 01:52 15687 Jun 27 14:06 15687 Jul 02 01:36 15687 Jul 10 19:28 15687 Jul 10 19:28 15687 Jul 12 04:13 15687 Jul 25 04:15 15687 Aug 11 00:24 15687 Aug 17 22:04	9°801'53 8°842'40 9°821'04 22°818'06 0°1129'14 0°11 0°5 17°514'40 22°541'29 23°511'47 21°505'21 14°542'18 14°546'27 15°508'24 8°531'42 6°541'29 11°545'00 13°510'03 0°10 25°11'34 0°10 6°1020'24	0°13'15 1.41690 AU 22°49'55 2°59'31 2°58'32 0.69100 AU 21°18'57 1.42750 AU -1°27'35
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max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise	15686 May 06 14:11 15686 May 11 21:42 15686 May 18 23:20 15686 May 25 12:25 15686 Jun 16 04:27 15686 Jun 22 14:10 15686 Jun 22 14:10 15686 Jun 22 17:53 15686 Jul 07 23:27 15686 Jul 07 23:27 15686 Jul 08 04:57 15686 Jul 08 07:37 15686 Jul 13 04:11 15686 Jul 18 03:56 15686 Jul 25 06:56 15686 Jul 28 03:55 15686 Jul 28 03:55 15686 Jul 30 02:37 15686 Aug 21 02:43 15686 Aug 21 02:43 15686 Sep 04 17:12 15686 Sep 12 13:58	0°II 8°II45'28 19°II58'48 0°© 0°A 3°A21'23 6°A16'01 8°A33'56 6°A42'55 0°A28'30 0°A09'19 30°R© 24°©10'34 22°©01'51 25°©18'29 27°©56'51 0°A 0°M 15°M39'53 23°M27'11 0°Ω 7°Ω14'30 7°Ω32'49 18°Ω26'25 25°Ω42'43	1.43631 AU 21°30'39 3°08'28 3°07'42 0.68971 AU 22°43'50 1.40556 AU -0°51'47	minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set inferior conj minimum elong min. Earth dist. morning max el desc. node morning set max. Earth dist. superior conj minimum elong asc. node	15687 Apr 16 17:06 15687 Apr 16 12:49 15687 Apr 16 21:24 15687 Apr 24 08:38 15687 Apr 29 07:53 15687 Apr 29 00:40 15687 May 18 23:34 15687 Jun 01 23:12 15687 Jun 12 02:29 15687 Jun 17 02:08 15687 Jun 22 09:23 15687 Jun 22 08:11 15687 Jun 22 01:52 15687 Jun 22 01:52 15687 Jun 27 14:06 15687 Jul 02 01:36 15687 Jul 10 19:28 15687 Jul 10 19:28 15687 Jul 12 04:13 15687 Jul 25 04:15 15687 Aug 11 00:24 15687 Aug 11 00:24 15687 Aug 17 22:04 15687 Aug 25 13:38 15687 Aug 31 18:59 15687 Sep 05 11:57	9°801'53 8°842'40 9°821'04 22°818'06 0°1129'14 0°11 0°9 17°914'40 22°941'29 23°911'47 21°905'21 14°942'18 14°946'27 15°908'24 8°931'42 6°941'29 11°945'00 13°910'03 0°0 25°017'34 0°10 6°1020'24 18°107'43 0°10	0°13'15 1.41690 AU 22°49'55 2°59'31 2°58'32 0.69100 AU 21°18'57 1.42750 AU -1°27'35
max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise evening max el	15686 May 06 14:11 15686 May 11 21:42 15686 May 18 23:20 15686 May 25 12:25 15686 Jun 16 04:27 15686 Jun 22 14:10 15686 Jun 22 14:10 15686 Jun 28 05:38 15686 Jul 07 23:27 15686 Jul 07 23:27 15686 Jul 08 04:57 15686 Jul 08 04:57 15686 Jul 13 04:11 15686 Jul 18 03:56 15686 Jul 25 06:56 15686 Jul 28 03:55 15686 Jul 28 03:55 15686 Jul 28 03:55 15686 Jul 30 02:37 15686 Aug 21 02:43 15686 Aug 21 02:43 15686 Sep 04 17:12 15686 Sep 08 12:20 15686 Sep 12 13:58 15686 Sep 12 13:58 15686 Sep 12 13:58 15686 Sep 12 18:01 15686 Sep 21 11:34 15686 Sep 24 18:03 15686 Sep 24 18:03 15686 Oct 08 09:46	0°II 8°II45'28 19°II58'48 0°© 0°A 3°A21'23 6°A16'01 8°A33'56 6°A42'55 0°A28'30 0°A29'36 0°A09'19 30°R© 24°©10'34 22°©01'51 25°©18'29 27°©556'51 0°A 0°ID 15°ID39'53 23°ID27'11 0°Ω 7°Ω32'49 18°Ω26'25 25°Ω42'43 0°IL 21°IL22'33	1.43631 AU 21°30'39 3°08'28 3°07'42 0.68971 AU 22°43'50 1.40556 AU -0°51'47 0°51'07	minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	15687 Apr 16 17:06 15687 Apr 16 12:49 15687 Apr 16 21:24 15687 Apr 24 08:38 15687 Apr 29 07:53 15687 Apr 29 00:40 15687 May 18 23:34 15687 Jun 01 23:12 15687 Jun 12 02:29 15687 Jun 17 02:08 15687 Jun 22 09:23 15687 Jun 22 09:23 15687 Jun 22 01:52 15687 Jun 22 01:52 15687 Jun 27 14:06 15687 Jul 10 19:28 15687 Jul 10 19:28 15687 Jul 10 19:28 15687 Jul 10 02:41 15687 Aug 11 00:24 15687 Aug 11 00:24 15687 Aug 17 22:04 15687 Aug 25 06:39 15687 Aug 21 13:38 15687 Aug 31 18:59 15687 Sep 05 16:22	9°801'53 8°842'40 9°821'04 22°818'06 0°1129'14 0°11 0°5 17°514'40 22°541'29 23°511'47 21°505'21 14°542'18 14°542'18 14°542'18 14°545'00 13°510'03 0°0 25°017'34 0°10 0°10 18°10'34 0°10 18°10'34 0°10 18°10'34 0°10 18°10'34 0°10 18°10'34 0°10 18°10'34 0°10 18°10'34 0°10 18°10'34 0°10 18°10'34	0°13'15 1.41690 AU 22°49'55 2°59'31 2°58'32 0.69100 AU 21°18'57 1.42750 AU -1°27'35
max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise evening max el retrograde	15686 May 06 14:11 15686 May 11 21:42 15686 May 18 23:20 15686 May 25 12:25 15686 Jun 16 04:27 15686 Jun 19 06:47 15686 Jun 22 14:10 15686 Jun 28 05:38 15686 Jul 07 23:27 15686 Jul 07 23:27 15686 Jul 08 04:57 15686 Jul 08 07:37 15686 Jul 13 04:11 15686 Jul 18 03:56 15686 Jul 25 06:56 15686 Jul 28 03:55 15686 Jul 28 03:55 15686 Jul 28 03:55 15686 Jul 30 02:37 15686 Aug 21 02:43 15686 Aug 21 02:43 15686 Sep 04 17:12 15686 Sep 08 12:20 15686 Sep 12 13:58 15686 Sep 12 13:58 15686 Sep 12 18:01 15686 Sep 22 11:34 15686 Sep 24 18:03 15686 Oct 08 09:46 15686 Oct 08 09:46 15686 Oct 16 03:14	0°II 8°II45'28 19°II58'48 0°© 0°A 3°A21'23 6°A16'01 8°A33'56 6°A42'55 0°A28'30 0°A29'36 0°A09'19 30°R© 24°©10'34 22°©01'51 25°©18'29 27°©56'51 0°A 0°ID 15°ID39'53 23°ID27'11 0°• 7°• 14'30 7°• 132'49 18°• 126'25 25°• 142'43 0°IL 21°IL22'33 25°IL17'59	1.43631 AU 21°30'39 3°08'28 3°07'42 0.68971 AU 22°43'50 1.40556 AU -0°51'47 0°51'07	minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	15687 Apr 16 17:06 15687 Apr 16 12:49 15687 Apr 16 21:24 15687 Apr 24 08:38 15687 Apr 29 07:53 15687 Apr 29 00:40 15687 May 18 23:34 15687 Jun 01 23:12 15687 Jun 02 11:08 15687 Jun 12 02:29 15687 Jun 17 02:08 15687 Jun 22 09:23 15687 Jun 22 08:11 15687 Jun 22 01:52 15687 Jun 22 01:52 15687 Jul 02 01:36 15687 Jul 02 01:36 15687 Jul 10 19:28 15687 Jul 12 04:13 15687 Jul 12 04:13 15687 Jul 12 04:13 15687 Aug 11 00:24 15687 Aug 11 00:24 15687 Aug 13 23:47 15687 Aug 14 22:04 15687 Aug 25 06:39 15687 Aug 31 18:59 15687 Sep 05 16:22 15687 Sep 05 16:22 15687 Sep 18 07:32	9°801'53 8°842'40 9°821'04 22°818'06 0°1129'14 0°11 0°5 17°514'40 22°541'29 23°511'47 21°505'21 14°542'18 14°546'27 15°508'24 8°531'42 6°541'29 11°545'00 13°510'03 0°10 25°10'03 0°10 25°11'34 0°10 6°10'20'24 18°10'37'50 19°10'07'43 0°10 8°120'34 8°120'34 8°120'34 8°120'34	0°13'15 1.41690 AU 22°49'55 2°59'31 2°58'32 0.69100 AU 21°18'57 1.42750 AU -1°27'35 1°26'57
max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise evening max el	15686 May 06 14:11 15686 May 11 21:42 15686 May 18 23:20 15686 May 25 12:25 15686 Jun 16 04:27 15686 Jun 22 14:10 15686 Jun 22 14:10 15686 Jun 28 05:38 15686 Jul 07 23:27 15686 Jul 07 23:27 15686 Jul 08 04:57 15686 Jul 08 04:57 15686 Jul 13 04:11 15686 Jul 18 03:56 15686 Jul 25 06:56 15686 Jul 28 03:55 15686 Jul 28 03:55 15686 Jul 28 03:55 15686 Jul 30 02:37 15686 Aug 21 02:43 15686 Aug 21 02:43 15686 Sep 04 17:12 15686 Sep 08 12:20 15686 Sep 12 13:58 15686 Sep 12 13:58 15686 Sep 12 13:58 15686 Sep 12 18:01 15686 Sep 21 11:34 15686 Sep 24 18:03 15686 Sep 24 18:03 15686 Oct 08 09:46	0°II 8°II45'28 19°II58'48 0°© 0°A 3°A21'23 6°A16'01 8°A33'56 6°A42'55 0°A28'30 0°A29'36 0°A09'19 30°R© 24°©10'34 22°©01'51 25°©18'29 27°©556'51 0°A 0°ID 15°ID39'53 23°ID27'11 0°Ω 7°Ω32'49 18°Ω26'25 25°Ω42'43 0°IL 21°IL22'33	1.43631 AU 21°30'39 3°08'28 3°07'42 0.68971 AU 22°43'50 1.40556 AU -0°51'47 0°51'07	minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set inferior conj minimum elong min. Earth dist. morning max el desc. node morning set max. Earth dist. superior conj minimum elong asc. node	15687 Apr 16 17:06 15687 Apr 16 12:49 15687 Apr 16 21:24 15687 Apr 24 08:38 15687 Apr 29 07:53 15687 Apr 29 00:40 15687 May 18 23:34 15687 Jun 01 23:12 15687 Jun 12 02:29 15687 Jun 17 02:08 15687 Jun 22 09:23 15687 Jun 22 09:23 15687 Jun 22 01:52 15687 Jun 22 01:52 15687 Jun 27 14:06 15687 Jul 10 19:28 15687 Jul 10 19:28 15687 Jul 10 19:28 15687 Jul 10 02:41 15687 Aug 11 00:24 15687 Aug 11 00:24 15687 Aug 17 22:04 15687 Aug 25 06:39 15687 Aug 21 13:38 15687 Aug 31 18:59 15687 Sep 05 16:22	9°801'53 8°842'40 9°821'04 22°818'06 0°1129'14 0°11 0°5 17°514'40 22°541'29 23°511'47 21°505'21 14°542'18 14°542'18 14°542'18 14°545'00 13°510'03 0°0 25°017'34 0°10 0°10 18°10'34 0°10 18°10'34 0°10 18°10'34 0°10 18°10'34 0°10 18°10'34 0°10 18°10'34 0°10 18°10'34 0°10 18°10'34 0°10 18°10'34	0°13'15 1.41690 AU 22°49'55 2°59'31 2°58'32 0.69100 AU 21°18'57 1.42750 AU -1°27'35

evening set	15687 Oct 01 00:08	7°M22'09		asc. node	15688 Aug 22 08:35	28° m 15'55	
inferior conj	15687 Oct 01 00:08 15687 Oct 08 00:23	2°M27'07	0°00'31	asc. Houe	15688 Aug 22 08:33 15688 Aug 23 09:08	0° ⊽	
minimum elong	15687 Oct 08 00:25	2°M27'07	0°00'53	evening max el	15688 Sep 04 11:16	0 = 17° £ 33'01	18°03'12
transit middle	15687 Oct 08 00:25	2°M27'03	0°00'53	retrograde	15688 Sep 10 21:20	20° £ 53'49	16 03 12
transit begin	15687 Oct 07 21:06	2°M34'42	0 00 33	evening set	15688 Sep 13 12:26	20° ⊆ 18'48	
transit end	15687 Oct 08 03:44	2°MJ9'22		inferior conj	15688 Sep 19 21:27	15° ⊆ 05'02	1°12'27
desc. node	15687 Oct 08 01:02	2°M25'35		minimum elong	15688 Sep 19 23:19	15° ⊆ 05'02	1°11'55
desc. node	15687 Oct 10 16:01	2 11G23 33 30°R ≏		min. Earth dist.	15688 Sep 22 16:59	13° ⊆ 00'03	0.62561 AU
min. Earth dist.	15687 Oct 10 10:01	29° ₽ 31'20	0.60276 AU	desc. node	15688 Sep 23 22:28	12 ⊆ 06 19 10° ⊆ 56'35	0.02301 AC
morning rise	15687 Oct 14 21:29	26° £ 41'01	0.00270 AU	morning rise	15688 Sep 26 07:52	8° £ 56'45	
direct	15687 Oct 21 12:13	24° ♀ 34'25		direct	15688 Oct 03 00:15	6° £ 31'30	
direct	15687 Nov 02 03:22	0°M		morning max el	15688 Oct 17 01:24		27°55'41
morning max el	15687 Nov 04 18:20	2°M24'42	27°52'40	morning max ci	15688 Oct 29 15:43	0°M	27 33 41
morning max ci	15687 Nov 24 22:32	2 11G24 42 0° 1 7	27 32 49		15688 Nov 16 12:18	0° ∡ 7	
asc. node	15687 Dec 02 13:03	13° ∡ ¹54'07		asc. node	15688 Nov 18 09:59	3° ∡ ¹43'54	
morning set	15687 Dec 07 08:28	23° ∡ 3407		morning set	15688 Nov 20 06:43	7° × ⁷ 29'14	
morning set	15687 Dec 10 07:38	0°る		max. Earth dist.	15688 Nov 25 12:17	18° х 30'49	1.31749 AU
max. Earth dist.	15687 Dec 13 09:10	6° る 44'51	1.31126 AU	max. Earth dist.	13000 NOV 23 12.17	10 🗴 30 49	1.31749 AO
max. Earm dist.	1308/ Dec 13 09.10	0 044 31	1.31120 AU	superior conj	15688 Nov 27 19:54	23° ∡ ¹34'25	1017'30
superior conj	15687 Dec 14 10:58	9° ට 08'34	1°30'19	minimum elong	15688 Nov 27 17:43	23°×722'23	1°18'12
minimum elong	15687 Dec 14 10:38	9 008 34 8° る 59'51	1°31'02	minimum clong	15688 Nov 30 17:46	0° る	1 1012
evening rise	15687 Dec 21 03:33	23°る57'16	1 31 02	evening rise	15688 Dec 04 14:03	8° る 25'39	
evening rise	15687 Dec 24 00:00	23 3 57 10 0° ≈		evening rise	15688 Dec 15 13:30	0°≈	
desc. node	15688 Jan 03 23:29	0 ∞ 20°≈20'59		desc. node	15688 Dec 20 20:23	0 ∞ 8°≈21'35	
desc. flode	15688 Jan 10 13:04	20 ≈ 20 39		evening max el	15688 Dec 29 09:49	18°≈40'19	24°15'06
evening max el	15688 Jan 17 21:41	8° ¥ 22'54	25°49'04	retrograde	15689 Jan 12 00:27	25°≈26'21	24 13 00
retrograde	15688 Jan 31 20:09	6 X 22 34 15° ¥ 25'01	23 49 04	evening set	15689 Jan 17 01:50	23 ≈2021 24°≈30'35	
evening set	15688 Feb 06 20:27	13 X 2301 14° X 01'06		min. Earth dist.	15689 Jan 22 21:30	24 ≈30 33 21°≈36'21	0.55610 AU
min. Earth dist.	15688 Feb 11 10:42	11° X 22'13	0.57320 AU	inferior conj	15689 Jan 24 23:49	21 ≈3021 20°≈19'54	
inferior conj	15688 Feb 14 09:03	9° ∺ 20′22		minimum elong	15689 Jan 25 07:45	20 ≈19 34 20°≈07'50	
minimum elong	15688 Feb 14 18:07	9° ∺ 04'37	4°11'44	morning rise	15689 Feb 02 15:31	20 ≈0730 16°≈20'37	3 20 43
morning rise	15688 Feb 22 18:46	5° ∺ 01'23	7 11 77	direct	15689 Feb 05 00:28	16°≈05'58	
direct	15688 Feb 24 18:50	4°) 48'52		asc. node	15689 Feb 14 08:23	20°≈11'35	
asc. node	15688 Feb 28 10:58	5° ∺ 33'25		morning max el	15689 Feb 15 07:33	21°≈05'16	19°53'51
morning max el	15688 Mar 04 14:05	9° ₩ 07'55	18°50'15	morning max cr	15689 Feb 22 07:20	0° \	17 33 31
morning max or	15688 Mar 18 02:35	0° Υ	10 30 13	morning set	15689 Mar 05 01:01	19° ∺ 51'40	
morning set	15688 Mar 20 20:24	5° Υ 18'44		morning sec	15689 Mar 10 00:34	0°Υ	
						•	
superior conj	15688 Mar 29 12:21	22° Y '06'15	0°21'02	superior conj	15689 Mar 12 21:09	5° Ƴ 44'15	0°49'15
minimum elong	15688 Mar 29 13:42	22° Y 12'36	0°20'34	minimum elong	15689 Mar 12 23:35	5° Ƴ 56'19	0°48'52
desc. node	15688 Apr 01 01:02	26° Ƴ 49'40		desc. node	15689 Mar 18 21:38	17° Ƴ 21'09	
	15688 Apr 02 18:36	0° ႘		max. Earth dist.	15689 Mar 18 22:34	17° Ƴ 25'32	1.37182 AU
max. Earth dist.	15688 Apr 05 15:56	5° 8 10'12	1.39460 AU	evening rise	15689 Mar 22 15:38	24° Ƴ 12'29	
evening rise	15688 Apr 09 13:48	11° 8 56'07		C	15689 Mar 25 22:53	0°B	
C	15688 Apr 20 19:42	Π°			15689 Apr 14 11:34	$\Pi^{\circ}0$	
	15688 May 13 09:44	0° ©		evening max el	15689 Apr 27 02:54	15° Ⅱ 04'45	25°27'58
evening max el	15688 May 14 13:21	1°9510'14	24°11'18	retrograde	15689 May 09 09:34	22° Ⅱ 10'58	
retrograde	15688 May 25 20:10	7° 5 46'39		asc. node	15689 May 13 05:24	21° Ⅱ 10'42	
asc. node	15688 May 26 08:13	7° 5 45'34		evening set	15689 May 15 08:08	19° Ⅱ 42'33	
evening set	15688 May 31 07:27	5°527'24		min. Earth dist.	15689 May 19 15:11	14° Ⅱ 59'38	0.67918 AU
min. Earth dist.	15688 Jun 04 22:01	0°907'43	0.68747 AU	inferior conj	15689 May 21 00:36	13° Ⅱ 11'56	2°10'00
	15688 Jun 05 00:18	30° Ŗ Ⅱ		minimum elong	15689 May 20 22:25	13° Ⅱ 18'57	2°08'37
inferior conj	15688 Jun 05 18:26	28° Ⅱ 58'37	2°40'09	morning rise	15689 May 26 13:10	7° Ⅲ 20′11	
minimum elong	15688 Jun 05 16:34	29° Ⅱ 04'55	2°38'56	direct	15689 May 30 01:32	6° Ⅱ 09'16	
morning rise	15688 Jun 11 01:44	22° Ⅱ 56'46		morning max el	15689 Jun 05 22:45	9° Ⅱ 53'30	19°05'09
direct	15688 Jun 15 01:22	21° Ⅲ 26′21		desc. node	15689 Jun 14 22:29	21° I I11'38	
morning max el	15688 Jun 22 17:25	25° Ⅱ 44'25	20°04'49	greatest brilliancy	15689 Jun 18 22:35	27° Ⅱ 04'39	-0.7m
-	15688 Jun 26 13:22	0° ©		-	15689 Jun 20 21:10	0ං ම	
desc. node	15688 Jun 28 01:24	1° © 52'31		morning set	15689 Jun 29 12:55	13° © 15'45	
	15688 Jul 17 12:17	$0^{\circ}\Omega$		Ç	15689 Jul 10 08:03	$0^{\circ}\Omega$	
morning set	15688 Jul 20 06:35	4° Ω 13'39		max. Earth dist.	15689 Jul 13 03:32		1.45609 AU
max. Earth dist.	15688 Jul 30 10:03	20° Ω 04'17	1.44498 AU				
				superior conj	15689 Jul 15 19:55	8° Ω 36′15	-2°13'02
superior conj	15688 Aug 05 00:04	29° Ω 03'02	-1°57'08	minimum elong	15689 Jul 15 22:35	8° Ω 46'47	2°13'42
minimum elong	15688 Aug 05 07:30	29° £ 33′21	1°57'04	-	15689 Jul 29 04:53	0° m y	
=							
	15688 Aug 05 14:02	0° m ⁄		evening rise	15689 Jul 30 16:24	2° m 24'30	
evening rise	15688 Aug 05 14:02 15688 Aug 18 03:41	0° Mp 21° Mp 04'32		evening rise asc. node	15689 Jul 30 16:24 15689 Aug 09 05:16	2° Mp 24'30 17° Mp 49'16	

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	15689 Aug 17 22:55	0∘ ⊽			15690 Jul 03 01:00	$0^{\circ}\Omega$	
evening max el	15689 Aug 19 01:40	1° ഫ 10'01	18°19'48	evening rise	15690 Jul 11 04:05	12° Ω 42′00	
retrograde	15689 Aug 25 10:56	4° £ 34'04		greatest brilliancy	15690 Jul 20 20:29	27° Ω 46'47	-0.8m
evening set	15689 Aug 28 10:49	3° ₽ 44'30			15690 Jul 22 07:26	0° m)	
-	15689 Sep 01 19:04	30°R, M⊅		asc. node	15690 Jul 27 01:58	7° m 00'15	
inferior conj	15689 Sep 03 08:01	28° Mp 14'26	2°04'48	evening max el	15690 Aug 02 13:07	14° m 57'38	18°53'46
minimum elong	15689 Sep 03 10:22	28° m 07'33	2°04'01	retrograde	15690 Aug 09 06:19	18° m 37'55	
min. Earth dist.	15689 Sep 05 14:51	25° m 34'44	0.64661 AU	evening set	15690 Aug 12 15:31	17° m 31'55	
morning rise	15689 Sep 09 08:27	21° m 53'19		inferior conj	15690 Aug 18 04:27	11° m)47'42	2°39'58
desc. node	15689 Sep 10 19:53	20° m 50'06		minimum elong	15690 Aug 18 06:26	11° m)41'24	2°39'13
direct	15689 Sep 15 21:00	19° m) 17'42		min. Earth dist.	15690 Aug 19 21:20	9° m ,38′24	0.66432 AU
morning max el	15689 Sep 29 12:01	27° m) 13'48	27°23'04	morning rise	15690 Aug 23 20:29	5° Mp 21'25	
	15689 Oct 02 02:50	0∘ ⊽		desc. node	15690 Aug 28 17:19	2° Mp 50'56	
	15689 Oct 23 08:08	0°M₊		direct	15690 Aug 30 01:21	2° Mp 44'06	
morning set	15689 Nov 03 19:58	20° ML $52'28$		morning max el	15690 Sep 11 23:36	10° My $24'38$	26°22'25
asc. node	15689 Nov 05 06:50	23°M45'12			15690 Sep 27 12:58	0° ∿	
	15689 Nov 08 08:24	0° ∡ ¹			15690 Oct 15 21:07	0° M	
max. Earth dist.	15689 Nov 08 07:53	29°M57'19	1.32933 AU	morning set	15690 Oct 17 20:59	3°M41'23	
				max. Earth dist.	15690 Oct 21 17:37	11°ML05'18	1.34653 AU
superior conj	15689 Nov 12 00:33	7° ∡ ¹45′03	0°58'55	asc. node	15690 Oct 23 03:34	13°M52'58	
minimum elong	15689 Nov 11 22:13	7° ∡ ³32'35	0°59'18				
evening rise	15689 Nov 19 00:49	22° ∡ ¹53′06		superior conj	15690 Oct 26 22:26	21°M33'58	0°34'11
	15689 Nov 22 10:16	0°ಕ		minimum elong	15690 Oct 26 20:40	21°M24'52	0°34'29
desc. node	15689 Dec 07 17:21	25° පි 16'02			15690 Oct 30 23:18	0° ∡ ¹	
evening max el	15689 Dec 10 19:36	28° る 36'25	22°31'42	evening rise	15690 Nov 03 09:53	7° ∡ 14'19	
	15689 Dec 12 07:58	0° ≈			15690 Nov 15 13:46	0°ಕ	
retrograde	15689 Dec 23 16:25	4° ≈ 58'41		evening max el	15690 Nov 22 12:56	8° る 49'27	20°56'27
evening set	15689 Dec 27 11:02	4° ≈ 27'27		desc. node	15690 Nov 24 14:26	10° る 41'21	
min. Earth dist.	15690 Jan 04 03:36		0.54588 AU	retrograde	15690 Dec 04 02:30	14° る 33'39	
inferior conj	15690 Jan 04 21:05	0° ≈ 33'36		evening set	15690 Dec 06 16:27	14° る 17'45	
minimum elong	15690 Jan 04 21:31	0° ≈ 32'59	6°00'41	inferior conj	15690 Dec 15 11:50	10° る 25'48	
	15690 Jan 05 21:04	30°Ŗる		minimum elong	15690 Dec 15 03:47	10° る 37'16	
morning rise	15690 Jan 13 09:10	26° පි 46'00		min. Earth dist.	15690 Dec 16 09:03	9° ට 55'32	0.54464 AU
direct	15690 Jan 16 13:20	26° පි 23'11		morning rise	15690 Dec 23 15:15	6° ට 32'44	
	15690 Jan 25 23:41	0° ≈		direct	15690 Dec 27 20:31	5° 云 54'26	
morning max el	15690 Jan 28 10:14	2°≈06'21	21°20'32	morning max el	15691 Jan 09 23:54	12° る 18'28	23°05'23
asc. node	15690 Feb 01 05:44	6°≈18'48		asc. node	15691 Jan 19 03:01	23° る 35'58	
	15690 Feb 15 05:11	0° ∀			15691 Jan 23 01:31	0° ≈	
morning set	15690 Feb 17 10:12	4°) 33′55		morning set	15691 Feb 01 21:42	19°≈18'07	
					15691 Feb 06 20:36	0° ∀	
superior conj	15690 Feb 24 16:41	19° ¥ 50′11					
minimum elong	15690 Feb 24 19:12	20° ₩ 03'12		superior conj	15691 Feb 08 19:43	4° ₩ 14'13	
max. Earth dist.	15690 Mar 01 08:48	29° ¥ 19'13	1.35083 AU	minimum elong	15691 Feb 08 21:40	4°) € 24'39	1°26'33
	15690 Mar 01 17:03	0° Υ		max. Earth dist.	15691 Feb 12 01:50	11°) €08'32	1.33335 AU
evening rise	15690 Mar 05 10:11	7° Y ′09'42		evening rise	15691 Feb 16 17:56	20°) 38′18	
desc. node	15690 Mar 05 18:14	7° Y 47′29		desc. node	15691 Feb 20 14:50	28°) €03'58	
	15690 Mar 18 15:53	0°8	2 < 0.2 2 2 0		15691 Feb 21 15:55	0°Υ	
evening max el	15690 Apr 09 16:34	28° 8 52'34 0° I I	26°32'29		15691 Mar 12 14:10	0°8	27017124
	15690 Apr 10 21:00			evening max el	15691 Mar 23 05:57	12° 8 24'50	27°17'34
retrograde	15690 Apr 22 17:50	6° Ⅱ 17'14 3° Ⅱ 44'42		retrograde	15691 Apr 05 20:06	19° 8 56'47	
evening set	15690 Apr 29 02:21			evening set	15691 Apr 12 12:03	17° 8 26'36	0.64047.411
asc. node	15690 Apr 30 02:39	2° I 51'42		min. Earth dist.	15691 Apr 16 08:35	13° 8 51'03	0.64947 AU
i r at ii a	15690 May 02 19:28	30°R8	0.66627 ATT	asc. node	15691 Apr 16 23:57	13° 8 09'29	0022145
min. Earth dist.	15690 May 03 03:20	29° 8 36'56	0.66637 AU	inferior conj	15691 Apr 18 19:22	11° 8 09'19	0°33'45
inferior conj	15690 May 05 01:44	27° 8 17'22	1°28'13	minimum elong	15691 Apr 18 18:27	11° 8 11'51	0°32'54
minimum elong	15690 May 04 23:48	27° 8 23'13	1°26'54	morning rise	15691 Apr 25 02:46	5° 8 42'24	
morning rise	15690 May 10 22:19	21° 8 37'10		direct	15691 Apr 27 19:17	5° 8 04'26	17°55'11
direct	15690 May 14 00:16	20° 8 44'06	10021140	morning max el	15691 May 04 02:46	8° 8 20'00 0° Ⅱ	1/ 33/11
morning max el	15690 May 20 10:35 15690 May 25 09:35	24° 8 07'40	18°21'40	daga mada	15691 May 19 01:06		
1 1	1369H May 75 119:35	Π $\circ 0$		desc. node	15691 May 19 16:21	1°П02'56 4°П32'55	
	•	100 T 57120					
desc. node	15690 Jun 01 19:28	10° I 57'30		morning set	15691 May 21 19:10	4 113233	
morning set	15690 Jun 01 19:28 15690 Jun 09 14:18	23° Ⅱ 14'46		-	•		1047!14
	15690 Jun 01 19:28			superior conj	15691 Jun 04 20:07	27° Ⅱ 20'51	
morning set	15690 Jun 01 19:28 15690 Jun 09 14:18 15690 Jun 13 20:42	23°∏14'46 0°©	200022	-	15691 Jun 04 20:07 15691 Jun 04 11:25	27° Ⅱ 20'51 26° Ⅱ 46'17	
morning set superior conj	15690 Jun 01 19:28 15690 Jun 09 14:18 15690 Jun 13 20:42 15690 Jun 25 04:55	23°∏14'46 0°© 17°©47'12		superior conj minimum elong	15691 Jun 04 20:07 15691 Jun 04 11:25 15691 Jun 06 12:20	27°∏20'51 26°∏46'17 0°©	1°47'17
morning set	15690 Jun 01 19:28 15690 Jun 09 14:18 15690 Jun 13 20:42	23° I 14'46 0°© 17°©47'12 17°©27'27		superior conj	15691 Jun 04 20:07 15691 Jun 04 11:25	27° Ⅱ 20'51 26° Ⅱ 46'17	

	15691 Jun 25 22:13	0°N		superior conj	15692 May 15 06:40	7° Ⅱ 49'12	-1°12'50
greatest brilliancy	15691 Jul 05 01:52	13° Ω 40'33	-0.6m	minimum elong	15692 May 14 23:48	7° II 20'55	
asc. node	15691 Jul 13 22:44	25° Ω 41'01		max. Earth dist.	15692 May 21 13:24	18° Ⅱ 00'43	1.44532 AU
evening max el	15691 Jul 16 19:35	28° Ω 50′19	19°44'01		15692 May 29 04:48	0ಂತಾ	
Č	15691 Jul 18 01:15	0° m)		evening rise	15692 May 30 07:01	1°5540'57	
retrograde	15691 Jul 24 04:38	2° m 59'01			15692 Jun 18 12:14	$0^{\circ}\Omega$	
evening set	15691 Jul 27 23:49	1°m/35'32		evening max el	15692 Jun 28 20:05	12° Ω 43'56	20°48'28
	15691 Jul 29 18:41	30° R Ω		asc. node	15692 Jun 29 19:34	13° Ω 40′27	
inferior conj	15691 Aug 02 07:41	25° Ω 38'39	3°00'35	retrograde	15692 Jul 07 03:36	17° Ω 30'51	
minimum elong	15691 Aug 02 08:53	25° Ω 34'40	2°59'55	evening set	15692 Jul 11 09:29	15° Ω 49'43	
min. Earth dist.	15691 Aug 03 10:35	24° Ω 08'40	0.67789 AU	inferior conj	15692 Jul 16 15:11	9° Ω 41'29	3°08'48
morning rise	15691 Aug 07 17:28	19° Ω 12'58		minimum elong	15692 Jul 16 15:25	9° Ω 40'39	3°08'06
direct	15691 Aug 13 12:07	16° Ω 41′50		min. Earth dist.	15692 Jul 17 04:24	8° Ω 55'45	0.68686 AU
desc. node	15691 Aug 15 14:42	16° Ω 59'14		morning rise	15692 Jul 21 21:04	3° Ω 20′05	
morning max el	15691 Aug 25 10:36	23° Ω 50′53	25°03'09	direct	15692 Jul 27 04:01	1° Ω 01'44	
	15691 Aug 30 22:30	0° m y		desc. node	15692 Aug 01 12:05	2° £ 52′53	
	15691 Sep 20 21:59	0∘ ⊽		morning max el	15692 Aug 06 21:24	7° Ω 25′28	23°34'54
morning set	15691 Sep 30 06:00	15° Ω 47'45	1.26000 411		15692 Aug 24 12:42	0° m)	
max. Earth dist.	15691 Oct 03 18:46	22° Ω 11'33	1.36809 AU	morning set	15692 Sep 10 18:40	27° m 00'37	
	15691 Oct 07 22:08	0°M₊		may Earth dist	15692 Sep 12 12:56	0° 亞 3° 亞 45'35	1 20107 AII
superior conj	15691 Oct 10 10:36	4°M54'35	0°03'56	max. Earth dist.	15692 Sep 14 17:09	3-245-33	1.39197 AU
minimum elong	15691 Oct 10 10:30	4°M53'15	0°04'18	superior conj	15692 Sep 22 09:19	17° £ 37'35	0°30'45
behind sun begin	15691 Oct 10 10:20 15691 Oct 10 04:02	4°M22'19	0 04 18	minimum elong	15692 Sep 22 11:33	17 ⊆ 37 33	
behind sun end	15691 Oct 10 16:37	5°M24'16		asc. node	15692 Sep 25 20:54	24° £ 13'17	0 30 11
asc. node	15691 Oct 10 00:15	4°ML03'42		use. Hode	15692 Sep 28 20:41	0°M	
evening rise	15691 Oct 18 15:05	21°M24'30		evening rise	15692 Oct 01 13:41	5°M16'21	
e vennig rise	15691 Oct 22 22:46	0° ₹		evening rise	15692 Oct 16 06:03	0°×7	
evening max el	15691 Nov 04 20:21	19° ∡ ¹47'41	19°40'15	evening max el	15692 Oct 17 17:31	1° ∡ ³36′03	18°46'21
desc. node	15691 Nov 11 11:34	24° ∡ 13′07		retrograde	15692 Oct 26 03:23	5° ∡ 750'49	
retrograde	15691 Nov 14 18:30	24° ∡ ¹45′03		evening set	15692 Oct 28 01:06	5° ∡ ³38'33	
evening set	15691 Nov 16 17:49	24° ₹ ³34'13		desc. node	15692 Oct 28 08:49	5° ∡ ³34'10	
inferior conj	15691 Nov 25 10:53	20° ∡ ³31'30	-4°13'48	inferior conj	15692 Nov 05 04:47	1° ∡ 16′22	-2°30'11
minimum elong	15691 Nov 25 01:05	20° ∡ ¹46′52	4°09'55	minimum elong	15692 Nov 04 22:38	1° ∡ 727'33	2°27'04
min. Earth dist.	15691 Nov 27 16:59	19° ∡ ¹06'37	0.55285 AU		15692 Nov 06 22:31	30°RML	
morning rise	15691 Dec 03 06:38	16° ∡ 14′04		min. Earth dist.	15692 Nov 08 05:57	29°M03'49	0.56879 AU
direct	15691 Dec 08 11:39	15° ∡ 13'45		morning rise	15692 Nov 12 17:06	26°M23'23	
morning max el	15691 Dec 22 08:25		24°54'44	direct	15692 Nov 18 16:16	24°M57'22	
	15691 Dec 29 05:20	0°ප			15692 Nov 30 06:40	0° ∡ ¹	
asc. node	15692 Jan 06 00:13	11° る 46'42		morning max el	15692 Dec 02 20:49	2° ∡ 18'35	26°29'35
	15692 Jan 15 12:39	0° ≈		asc. node	15692 Dec 22 21:21	0° る 37'40	
morning set	15692 Jan 17 09:35	3° ≈ 59′02			15692 Dec 22 13:06	0°る	
	15602 1 24 02 20	10040177	1025114	morning set	15692 Dec 31 20:08	18° る 32'28	
superior conj	15692 Jan 24 03:39 15692 Jan 24 04:40	18°≈48'55	1°35'14 1°35'48		15693 Jan 06 01:00	0° ≈	
minimum elong max. Earth dist.		18°≈54'32	1.32050 AU	superior conj	15602 Ion 07 14:20	200020122	1°38'03
max. Earm dist.	15692 Jan 26 02:20 15692 Jan 29 07:45	23°≈04'43 0°) €	1.52030 AU	minimum elong	15693 Jan 07 14:20 15693 Jan 07 14:18	3°≈28'33 3°≈28'20	1°38'49
evening rise	15692 Jan 31 11:46	4°) (30'30		max. Earth dist.	15693 Jan 08 08:22	5°≈09'08	1.31271 AU
desc. node	15692 Feb 07 11:28	18°) €05'33		evening rise	15693 Jan 14 13:03	18° ≈ 40'03	1.512/1710
dese. node	15692 Feb 14 08:42	0°Υ		evening rise	15693 Jan 20 03:34	0° ∀	
evening max el	15692 Mar 04 17:41	25° Y ′29'53	27°35'55	desc. node	15693 Jan 24 08:09	7°) 46′16	
8	15692 Mar 10 05:44	0°8			15693 Feb 07 22:21	$0^{\circ}\Upsilon$	
retrograde	15692 Mar 18 15:08	2° 8 59'14		evening max el	15693 Feb 15 01:20	7° Ƴ 55'17	27°21'38
evening set	15692 Mar 25 10:46	0° 8 38'54		retrograde	15693 Mar 01 01:29	15° Ƴ 15'48	
-	15692 Mar 26 08:17	30° Ŗ ♈		evening set	15693 Mar 07 19:39	13° Υ 12'30	
min. Earth dist.	15692 Mar 29 05:06	27° Y ′30'57	0.62935 AU	min. Earth dist.	15693 Mar 11 15:32	10° Y 25′09	0.60730 AU
inferior conj	15692 Apr 01 02:32	24° Y 39'47	-0°34'13	inferior conj	15693 Mar 14 19:47	7° Ƴ 40′00	-1°54'57
minimum elong	15692 Apr 01 03:39	24° Y 36'59	0°34'02	minimum elong	15693 Mar 14 24:00	7° Ƴ 30'49	1°53'17
asc. node	15692 Apr 02 21:18	22° Y 56'46		asc. node	15693 Mar 20 18:41	3° Y 22′29	
morning rise	15692 Apr 07 23:18	19° Y ′28′33		morning rise	15693 Mar 22 07:41	2° Y 47'24	
direct	15692 Apr 10 07:45	19° Y ′02'17		direct	15693 Mar 24 09:59	2° Y 29'17	
morning max el	15692 Apr 16 20:26	22° Υ 21'21	17°46'09	morning max el	15693 Mar 31 12:25	6° Y 02'48	17°55'21
	15692 Apr 22 20:20	0°8			15693 Apr 15 21:03	0°8	
morning set	15692 May 03 01:15	17° 8 02'31		morning set	15693 Apr 16 02:47	0° 8 26'02	
desc. node	15692 May 05 13:09	21° 8 21'44		desc. node	15693 Apr 22 09:54	11° 8 49'24	
	15692 May 10 14:20	Π °0		gunorier con:	15602 Am. 26 16:52	19° 8 22'40	0024120
				superior conj	15693 Apr 26 16:53	17 02240	-U J4 JU

minimum elong	15693 Apr 26 13:50	19° 8 09'25	0°34'36	behind sun begin	15694 Apr 08 17:29	1° 8 21'17	
	15693 May 02 23:12	Π °0		behind sun end	15694 Apr 09 07:55	2° 8 27'25	
max. Earth dist.	15693 May 04 03:45	1° Ⅱ 57'51	1.42860 AU	desc. node	15694 Apr 09 06:36	2° 8 21'22	
evening rise	15693 May 10 04:53	11° Ⅱ 42'10		max. Earth dist.	15694 Apr 16 13:14	15° 8 14'23	1.40762 AU
	15693 May 22 05:33	0 \circ 50		evening rise	15694 Apr 20 22:20	22° 8 35'49	
evening max el	15693 Jun 11 15:04	26° © 37'35	22°03'38		15694 Apr 25 12:18	0°П	
_	15693 Jun 15 12:43	0 ° Ω			15694 May 16 05:16	0° ©	
asc. node	15693 Jun 16 16:30	0° Ω 45'14		evening max el	15694 May 25 06:10	10°931'18	23°24'35
retrograde	15693 Jun 21 01:36	2° Ω 08'32		asc. node	15694 Jun 03 13:33	16°538'28	
evening set	15693 Jun 25 18:46	0° Ω 10'37		retrograde	15694 Jun 04 21:17	16°5946'03 14°5933'29	
inforior aoni	15693 Jun 25 23:41	30°Rூ 23°♀52'26	3°05'56	evening set	15694 Jun 10 02:01 15694 Jun 15 10:35	8°907'33	2°52'36
inferior conj minimum elong	15693 Jul 01 00:48 15693 Jul 01 00:05	23°954'54	3°05'04	inferior conj minimum elong	15694 Jun 15 09:05	8°90733	2°51'30
min. Earth dist.	15693 Jul 01 00:43	23°S52'42	0.69098 AU	min. Earth dist.	15694 Jun 14 21:30	8°952'39	0.69011 AU
morning rise	15693 Jul 06 05:15	17° © 37'39	0.09098 AU	morning rise	15694 Jun 20 16:07	2°900'45	0.09011 AO
direct	15693 Jul 10 23:52	15°936'29		direct	15694 Jun 24 22:27	0°9519'06	
desc. node	15693 Jul 19 09:25	20°907'45		morning max el	15694 Jul 03 04:41	5°901'59	20°45'55
morning max el	15693 Jul 20 10:29	21° © 08'34	22°06'42	desc. node	15694 Jul 06 06:39	8°\$22'51	20 .5 55
morning man er	15693 Jul 28 00:22	0°Ω	00	dese. Hour	15694 Jul 22 01:17	0° Ω	
	15693 Aug 17 18:10	0° m)		morning set	15694 Aug 01 22:29	16° Ω 29'51	
morning set	15693 Aug 22 07:41	7° mp 12'51		max. Earth dist.	15694 Aug 10 03:33	29° Ω 28'18	1.43561 AU
max. Earth dist.	15693 Aug 27 19:14	16° m) 10'37	1.41542 AU		15694 Aug 10 11:25	0° m	
	Č	•			Č	•	
superior conj	15693 Sep 04 14:14	29° m 32'52	-1°07'19	superior conj	15694 Aug 16 21:16	10° m) 31'55	-1°41'17
minimum elong	15693 Sep 04 19:38	29° m 56'44	1°06'36	minimum elong	15694 Aug 17 04:56	11° M)04'04	1°40'50
	15693 Sep 04 20:23	0∘ ⊽			15694 Aug 28 04:24	0∘ ত	
asc. node	15693 Sep 12 17:31	14° ≙ 18'07		evening rise	15694 Aug 29 00:22	1° ≏ 28'02	
evening rise	15693 Sep 15 02:15	18° ≏ 41'13		asc. node	15694 Aug 30 14:09	4° ≏ 14'39	
	15693 Sep 21 07:03	0° M		evening max el	15694 Sep 14 13:36	27° ≏ 11'45	18°01'43
evening max el	15693 Oct 01 00:40	14°M07'16	18°14'02		15694 Sep 18 09:59	0° M	
retrograde	15693 Oct 08 07:50	17° ™ 50'49		retrograde	15694 Sep 21 04:39	0° M 37′17	
evening set	15693 Oct 10 10:27	17° M 32'44		evening set	15694 Sep 23 14:45	0°M09'33	
desc. node	15693 Oct 15 06:10	14°M55'46			15694 Sep 24 00:13	30° ₽ Ω	
inferior conj	15693 Oct 17 20:35	12°M48'59		inferior conj	15694 Sep 30 08:08	25° ≏ 06'06	0°33'30
minimum elong	15693 Oct 17 18:45	12°M52'52	0°48'39	minimum elong	15694 Sep 30 09:09	25° £ 03'37	0°33'24
min. Earth dist.	15693 Oct 21 02:48	10°M03'30	0.58968 AU	desc. node	15694 Oct 02 03:34	23° ₽ 19'03	0.61255.411
morning rise	15693 Oct 24 23:39	7°M20'05 5°M27'44		min. Earth dist.	15694 Oct 03 09:26	22° Ω 07'24 19° Ω 09'00	0.61255 AU
direct	15693 Oct 31 10:24 15693 Nov 14 17:24		27°33'35	morning rise direct	15694 Oct 07 00:39 15694 Oct 13 16:37	19° 2 209'00 16° 2 53'40	
morning max el	15693 Nov 28 02:53	13 IIL∪8 34 0° 🗷	27 33 33	morning max el	15694 Oct 27 21:34	16 ≥ 33 40 24° ♀ 48'54	27°58'47
asc. node	15693 Dec 09 18:24	0 x ⁴ 19° x 757'41		morning max er	15694 Nov 01 15:40	0°M	21 3641
asc. node	15693 Dec 14 18:39	0°る			15694 Nov 21 12:58	0° ∡ 7	
morning set	15693 Dec 16 03:30	2° る 52'56		asc. node	15694 Nov 26 15:22	9° ∡ 738'42	
max. Earth dist.	15693 Dec 22 16:18	17° る 13'32	1.31023 AU	morning set	15694 Nov 30 05:46	16° × 55'57	
				max. Earth dist.	15694 Dec 05 22:17	29° ∡ ¹08'51	1.31322 AU
superior conj	15693 Dec 23 01:48	18° る 06'45	1°34'51		15694 Dec 06 07:34	ರ°0	
minimum elong	15693 Dec 23 00:45	18° ට 00'50	1°35'38				
_	15693 Dec 28 10:08	0° ≈		superior conj	15694 Dec 07 12:14	2° る 38'47	1°25'40
evening rise	15693 Dec 29 19:26	3° ≈ 00′25		minimum elong	15694 Dec 07 10:21	2° る 28'23	1°26'20
desc. node	15694 Jan 11 04:55	26° ≈ 57'17		evening rise	15694 Dec 14 04:59	17° る 27'08	
	15694 Jan 13 01:09	0°)			15694 Dec 20 06:34	0° ≈	
evening max el	15694 Jan 28 01:54	19° ∺ 29'00	26°32'10	desc. node	15694 Dec 29 01:46	15° ≈ 27'44	
retrograde	15694 Feb 11 01:36	26° ∺ 38′27		evening max el	15695 Jan 09 17:57	0° ∺ 10′09	25°11'17
evening set	15694 Feb 17 11:13	24° ¥ 58'31			15695 Jan 09 13:42	0° ∀	
min. Earth dist.	15694 Feb 21 15:26	22° ∺ 20'59	0.58510 AU	retrograde	15695 Jan 23 14:04	7° ∺ 06'45	
inferior conj	15694 Feb 24 19:16	19°) 58'34		evening set	15695 Jan 29 05:50	5° ¥ 54'36	
minimum elong	15694 Feb 25 02:58	19°) (44′04	3°21'06	min. Earth dist.	15695 Feb 03 06:17		0.56525 AU
morning rise	15694 Mar 04 22:04	15°) €27'25		inferior conj	15695 Feb 05 22:03	1°) €27'26	
direct	15694 Mar 06 21:27	15°) 13'54		minimum elong	15695 Feb 06 07:22	1°) 12′13	4°46'40
asc. node	15694 Mar 07 16:06	15°) 16'04	10024110		15695 Feb 08 05:02	30°R≈ 27°2217'46	
morning max el	15694 Mar 14 22:57	19° ¥ 12'51 0° Ƴ	18°24'10	morning rise	15695 Feb 14 11:32	27°≈17'46	
morning set	15694 Mar 22 20:35 15694 Mar 30 18:03	14° Υ 25'40		direct asc. node	15695 Feb 16 14:01 15695 Feb 22 13:30	27°≈05'02 28°≈55'22	
morning set	15694 Apr 07 23:49	0° 8		asc. Hour	15695 Feb 24 02:20	28°≈33°22 0° ∺	
	1307-трі 0/ 23.49	v O		morning max el	15695 Feb 25 23:54	0 X 1° ¥ 40'11	19°14'31
superior conj	15694 Apr 09 00:35	1° 8 53'50	0°02'05	morning set	15695 Mar 14 18:44	28°) 48'51	17 1771
minimum elong	15694 Apr 09 00:42	1° 8 54'23	0°01'42		15695 Mar 15 09:02	20 γ (40 31	
viong		2 00 123	·=		1000.02	- •	

	15 (05 Mar. 22, 01.27	1500010145	0022146		15(0) E-L 27 01.24	120 1 20 115	
superior conj	15695 Mar 23 01:27	15° Y 10'45		morning set	15696 Feb 27 01:34	13° ¥ 26′15	
minimum elong	15695 Mar 23 03:24	15° Υ 20'09	0°33'18		1560634 05 15 14	2001/01/20	00.5011.5
desc. node	15695 Mar 27 03:11	22° Y 53'46		superior conj	15696 Mar 05 15:14	29° 米 01'39	0°59'17
max. Earth dist.	15695 Mar 29 19:18	27° Y ′47'17	1.38476 AU	minimum elong	15696 Mar 05 17:48	29° ¥ 14'38	0°59'00
	15695 Mar 31 00:54	0°8			15696 Mar 06 02:47	0° Υ	
evening rise	15695 Apr 02 12:56	4° 8 23'47		max. Earth dist.	15696 Mar 11 02:33	9° Ƴ 49'25	1.36250 AU
	15695 Apr 18 14:01	Π °0		desc. node	15696 Mar 12 23:46	13° Y ′23'32	
evening max el	15695 May 07 19:39	24° ∏ 25'32	24°44'58	evening rise	15696 Mar 14 22:19	16° Y ′58′53	
	15695 May 14 22:47	$0 {\circ} {f \varpi}$			15696 Mar 22 09:17	0°B	
retrograde	15695 May 19 13:26	1° © 16'51			15696 Apr 11 22:49	Π °0	
asc. node	15695 May 21 10:41	1° © 01'46		evening max el	15696 Apr 19 09:16	8° Ⅱ 18'17	25°57'30
	15695 May 23 17:41	30° Ŗ Ⅱ		retrograde	15696 May 02 00:52	15° Ⅱ 34'16	
evening set	15695 May 25 05:34	28° Ⅱ 52'59		asc. node	15696 May 07 07:52	13° Ⅱ 42'15	
min. Earth dist.	15695 May 29 16:39	23° Ⅱ 49'05	0.68443 AU	evening set	15696 May 08 03:43	13° Ⅱ 03'37	
inferior conj	15695 May 30 18:38	22° Ⅲ 22'36	2°28'45	min. Earth dist.	15696 May 12 08:04	8° Ⅱ 35'37	0.67416 AU
minimum elong	15695 May 30 16:36	22° Ⅲ 29′25	2°27'26	inferior conj	15696 May 13 22:57	6° Ⅲ 33'29	1°53'47
morning rise	15695 Jun 05 03:51	16° Ⅱ 24'54		minimum elong	15696 May 13 20:48	6° Ⅱ 40'15	1°52'24
direct	15695 Jun 08 22:29	15° Ⅲ 03'06		morning rise	15696 May 19 14:33	0° Ⅱ 46'11	
morning max el	15695 Jun 16 05:48	19° Ⅱ 05'39	19°37'33		15696 May 21 05:02	30° ₹ 8	
desc. node	15695 Jun 23 03:47	27° Ⅲ 21'56		direct	15696 May 22 22:20	29° 8 43'09	
	15695 Jun 25 01:47	$0 \circ \mathfrak{S}$			15696 May 24 16:34	Π°	
greatest brilliancy	15695 Jun 29 00:25	5° © 39'07	-0.6m	morning max el	15696 May 29 14:02	3° Ⅱ 17'21	18°44'36
morning set	15695 Jul 12 02:06	25°921'05		desc. node	15696 Jun 09 00:48	16° Ⅱ 53'28	
	15695 Jul 15 02:35	0°Ω		greatest brilliancy	15696 Jun 12 18:27	22° I 32'50	-0.8m
max. Earth dist.	15695 Jul 23 17:41		1.45047 AU	8	15696 Jun 17 14:09	0ಂಣ 	******
man. Bartin diot.	100,0001 25 17.11	15 0027 22	1.10017110	morning set	15696 Jun 20 14:40	4°9542'07	
superior conj	15695 Jul 28 04:49	20° Ω 32'46	-2°05'58	max. Earth dist.	15696 Jul 05 12:12	27°954'33	1.45858 AU
minimum elong	15695 Jul 28 10:56	20° Ω 57'15		max. Lartii dist.	13070 301 03 12.12	21 33433	1.43636 AC
minimum ciong	15695 Aug 03 01:04	0° m)	2 00 10	superior conj	15696 Jul 06 18:18	29° © 52'06	-2°14'05
evening rise	15695 Aug 11 02:40	13° Mp 22'37		minimum elong	15696 Jul 06 17:38	29°549'30	
asc. node	15695 Aug 17 02:40 15695 Aug 17 10:48	23° m 57'52		minimum clong	15696 Jul 06 20:19	29 3 49 30	2 14 31
asc. node	_	0° ⊽		avanina riaa		24° Ω 15'16	
	15695 Aug 21 04:36		18°08'05	evening rise	15696 Jul 22 04:41		
evening max el	15695 Aug 29 04:26	10° Ω 39'23	18-08-05	1	15696 Jul 25 18:52	0°M)	
retrograde	15695 Sep 04 13:11	14° Ω 00'04		asc. node	15696 Aug 03 07:30	13° My 22'38	10022112
evening set	15695 Sep 07 07:52	13° Ω 19'19	100 (150	evening max el	15696 Aug 11 17:59	24° m/22'09	18°32'12
inferior conj	15695 Sep 13 11:27	7° Ω 58'36	1°36'53	retrograde	15696 Aug 18 05:31	27° m 51'12	
minimum elong	15695 Sep 13 13:40	7° ≏ 52'29	1°36'11	evening set	15696 Aug 21 09:20	26° Mp 54'51	
min. Earth dist.	15695 Sep 16 01:59	5° Ω 06'49	0.63486 AU	inferior conj	15696 Aug 27 02:38	21°M) 18'49	2°21'35
desc. node	15695 Sep 19 01:00	2° ≙ 16′22		minimum elong	15696 Aug 27 04:54	21° Mp 11'55	2°20'49
morning rise	15695 Sep 19 17:27	1° ≏ 43'35		min. Earth dist.	15696 Aug 29 03:40		0.65467 AU
	15695 Sep 22 14:45	30°₽,₩		morning rise	15696 Sep 01 23:16	14° m 54'51	
direct	15695 Sep 26 08:48	29° m 12'30		desc. node	15696 Sep 04 22:24	13° m)01'38	
	15695 Sep 30 08:17	0∘ ⊽		direct	15696 Sep 08 09:09	12° m) 17'12	
morning max el	15695 Oct 10 06:32	7° ≏ 12'08	27°45'39	morning max el	15696 Sep 21 17:34	20° Mp 08'12	27°00'02
	15695 Oct 27 19:12	0° M			15696 Sep 30 05:09	0∘ ⊽	
asc. node	15695 Nov 13 12:15	29°M33'50			15696 Oct 19 21:12	0° M ₊	
	15695 Nov 13 17:29	0° ∡ 7		morning set	15696 Oct 27 08:58	13° M ₊44'39	
morning set	15695 Nov 14 00:31	0° ∡ ³35′16		asc. node	15696 Oct 30 09:03	19° M ₊38'17	
max. Earth dist.	15695 Nov 18 22:22	10° ∡ ⁴45'43	1.32184 AU	max. Earth dist.	15696 Oct 31 13:37	22°M02'04	1.33608 AU
					15696 Nov 04 10:08	0° ∡ ¹	
superior conj	15695 Nov 21 19:37	16° ∡ 758'46	1°10'27				
minimum elong	15695 Nov 21 17:18	16° ∡ ¹46′09	1°10'55	superior conj	15696 Nov 04 21:44	1° ₮ 01'08	0°49'10
	15695 Nov 27 18:29	8°0		minimum elong	15696 Nov 04 19:33	0° ∡ ¹49'35	0°49'28
evening rise	15695 Nov 28 15:48	1° る 55'13		evening rise	15696 Nov 12 02:05	16° ∡ ¹20'32	
	15695 Dec 13 18:49	0° ≈			15696 Nov 18 19:59	0°ಕ	
desc. node	15695 Dec 15 22:42	3° ≈ 02'29		desc. node	15696 Dec 01 19:43	19° る 21'57	
evening max el	15695 Dec 22 04:01	10° ≈ 14′00	23°31'07	evening max el	15696 Dec 02 16:01	20° ප 13'20	21°49'18
retrograde	15696 Jan 04 13:07	16° ≈ 51'40		retrograde	15696 Dec 15 00:50	26° පි 20'15	
evening set	15696 Jan 09 01:38	16° ≈ 07'23		evening set	15696 Dec 18 06:12	25° る 56'57	
min. Earth dist.	15696 Jan 15 14:59	13° ≈ 00′20	0.55072 AU	inferior conj	15696 Dec 26 21:16	22° පි 06'08	-5°57'23
inferior conj	15696 Jan 17 04:30	12° ≈ 05'34		minimum elong	15696 Dec 26 17:37	22° る 11'15	
minimum elong	15696 Jan 17 09:56	11° ≈ 57'38		min. Earth dist.	15696 Dec 26 20:29	22° る 07'15	0.54423 AU
morning rise	15696 Jan 25 19:43	8°≈12'27		morning rise	15697 Jan 04 05:45	18° る 18'27	
direct	15696 Jan 28 11:24	7° ≈ 55'17		direct	15697 Jan 07 20:39	17° る 49'41	
morning max el	15696 Feb 08 11:17	13° ≈ 13'53	20°28'03	morning max el	15697 Jan 20 07:39	23° ප් 51'13	22°03'29
asc. node	15696 Feb 09 10:51	14°≈13'16		<i>5</i> 42	15697 Jan 25 16:41	0° ≈	
	15696 Feb 20 05:24	0°) €		asc. node	15697 Jan 26 08:10	0°≈52'14	
		- /\			200 00.10	5 . I . D I T	

morning set	15697 Feb 10 11:59	28° ≈ 09'51		morning max el	15698 Jan 01 17:55	3° る 50'25	23°52'25
	15697 Feb 11 08:48	0°) €		asc. node	15698 Jan 13 05:25	18° ප 34'17	
					15698 Jan 19 16:37	0° ≈	
superior conj	15697 Feb 17 14:17	13° ¥ 15'51	1°18'17	morning set	15698 Jan 25 23:55	12° ≈ 53'54	
minimum elong	15697 Feb 17 16:36	13°) €28'07	1°18'19				
max. Earth dist.	15697 Feb 21 15:36	21°) (39'53	1.34291 AU	superior conj	15698 Feb 01 19:43	27°≈45'30	1°30'50
evening rise	15697 Feb 25 22:55	0° Υ 10'31 0° Υ		minimum elong	15698 Feb 01 21:18	27°≈54'05	1°31'14
desc. node	15697 Feb 25 20:44 15697 Feb 27 20:21	3° Y 46'03		max. Earth dist.	15698 Feb 02 20:32 15698 Feb 04 12:19	0°) 3°) 33'24	1.32734 AU
desc. node	15697 Mar 15 11:32	3 1 40 03 0° と		evening rise	15698 Feb 04 12.19 15698 Feb 09 11:22	3 X 53 24 13° X 50'17	1.32/34 AU
evening max el	15697 Apr 01 23:08	22° 8 01'19	26°54'37	desc. node	15698 Feb 14 17:00	23°\frac{15}{57'05}	
retrograde	15697 Apr 15 06:32	29° 8 29'42	20 3437	desc. node	15698 Feb 18 01:20	0° Υ	
evening set	15697 Apr 21 18:32	26° 8 57'39			15698 Mar 10 10:55	0°8	
asc. node	15697 Apr 24 05:08	24° 8 43'01		evening max el	15698 Mar 15 12:07	5° 8 23'31	27°28'55
min. Earth dist.	15697 Apr 25 17:32	23° 8 03'52	0.65962 AU	retrograde	15698 Mar 29 05:35	12° 8 54'34	
inferior conj	15697 Apr 27 21:13	20° 8 33'51	1°06'43	evening set	15698 Apr 04 23:50	10° 8 27'36	
minimum elong	15697 Apr 27 19:36	20° 8 38'34	1°05'34	min. Earth dist.	15698 Apr 08 19:07	7° 8 04'40	0.64134 AU
morning rise	15697 May 03 22:01	14° 8 58'47		inferior conj	15698 Apr 11 10:46	4° 8 17'20	0°06'35
direct	15697 May 06 19:55	14° 8 12'21		minimum elong	15698 Apr 11 10:35	4° 8 17'49	0°06'06
morning max el	15697 May 13 03:55	17° 8 30'57	18°08'18	transit middle	15698 Apr 11 10:35	4° 8 17'49	0°06'06
	15697 May 22 14:04	Π $^{\circ}0$		transit begin	15698 Apr 11 07:43	4° 8 25'25	
desc. node	15697 May 26 21:43	6° Ⅱ 48'06		transit end	15698 Apr 11 13:28	4° 8 10'14	
morning set	15697 Jun 01 03:30	15° Ⅱ 14'07		asc. node	15698 Apr 11 02:26	4° 8 39'26	
	15697 Jun 10 08:59	0 \circ 50			15698 Apr 16 02:40	30° Ŗ ♈	
				morning rise	15698 Apr 17 23:34	28° Y ′56'49	
superior conj	15697 Jun 16 03:43	9° © 06'25		direct	15698 Apr 20 12:36	28° Y ′24′08	
minimum elong	15697 Jun 15 20:20	8°937'26	2°02'29		15698 Apr 24 21:55	0°8	15040111
max. Earth dist.	15697 Jun 18 08:47	12° © 33'53	1.45919 AU	morning max el	15698 Apr 26 21:06	1° 8 39'24	17°49'11
	15697 Jun 29 14:12	0° Ω 4° Ω 09'22		morning set	15698 May 13 19:39	27° 8 04'03	
evening rise greatest brilliancy	15697 Jul 02 06:39 15697 Jul 14 02:14	$4^{\circ}09'22$ $22^{\circ}\Omega15'18$	-0.7m	desc. node	15698 May 13 18:34 15698 May 15 13:25	26° 8 59'30 0° Ⅱ	
greatest offinancy	15697 Jul 19 10:26	0°m)	-0.7111		13096 Way 13 13.23	υщ	
asc. node	15697 Jul 21 04:14	2° m) 21'33		superior conj	15698 May 27 01:57	18° Ⅱ 59'49	-1°33'35
evening max el	15697 Jul 26 03:34	8° m) 12'25	19°13'16	minimum elong	15698 May 26 17:33	18° Ⅱ 25'58	
retrograde	15697 Aug 02 02:23	12° Mp 03'00	17 13 10	max. Earth dist.	15698 Jun 01 04:33	27° I 108'15	1.45234 AU
evening set	15697 Aug 05 15:52	10° Mp 49'26		man. Barur dist.	15698 Jun 03 00:12	0.00 1.00 1.00	125
inferior conj	15697 Aug 11 02:16	4° m) 59'41	2°50'19	evening rise	15698 Jun 11 18:21	13° © 33'13	
minimum elong	15697 Aug 11 03:57	4° m) 54'12	2°49'37	Č	15698 Jun 22 16:20	$0^{\circ}\Omega$	
min. Earth dist.	15697 Aug 12 13:07	3°m/06'30	0.67067 AU	asc. node	15698 Jul 08 01:02	20° Ω 45'38	
	15697 Aug 15 03:46	30° R Ω		evening max el	15698 Jul 09 07:27	22° Ω 04'57	20°09'52
morning rise	15697 Aug 16 15:24	28° € 33'22		retrograde	15698 Jul 17 01:18	26° Ω 28'59	
direct	15697 Aug 22 16:12	25° Ω 57'56		evening set	15698 Jul 21 00:59	24° Ω 57'44	
desc. node	15697 Aug 22 19:48	25° Ω 58′01		inferior conj	15698 Jul 26 07:35	18° Ω 55'37	
	15697 Aug 31 11:11	0° ™		minimum elong	15698 Jul 26 08:23	18° Ω 52'54	3°04'50
morning max el	15697 Sep 04 04:53	3° TQ 26'04	25°50'28	min. Earth dist.	15698 Jul 27 04:30	17° Ω 44'23	0.68225 AU
	15697 Sep 24 11:27	0° ⊽		morning rise	15698 Jul 31 15:25	12° Ω 31'28	
morning set	15697 Oct 10 03:43	26° £ 16'37		direct desc. node	15698 Aug 06 05:06	10°Ω05'25 10°Ω53'28	
max. Earth dist.	15697 Oct 12 03:55 15697 Oct 13 19:35	0°ጤ 3°ጤ07'48	1.35531 AU	morning max el	15698 Aug 09 17:11 15698 Aug 17 15:50	$16^{\circ} \Omega 56'30$	24026116
asc. node	15697 Oct 17 05:47	9°M47'53	1.55551 AU	morning max ci	15698 Aug 28 12:51	0° m)	24 20 10
asc. node	1307/ 001 1/ 03.4/) IIU+133			15698 Sep 17 11:10	0∘ ত الم	
superior conj	15697 Oct 19 15:57	14°M39'23	0°22'01	morning set	15698 Sep 22 04:37	%- ರ 01'09	
minimum elong	15697 Oct 19 14:41	14°M33'02	0°22'18	max. Earth dist.	15698 Sep 25 19:08	14° ≏ 23'40	1.37808 AU
evening rise	15697 Oct 27 09:50	0° ∡ 38'19			ī		
8	15697 Oct 27 02:25	0° ∡ ¹		superior conj	15698 Oct 02 22:52	27° ≏ 44'39	-0°10'22
	15697 Nov 13 21:54	8°0		minimum elong	15698 Oct 02 23:33	27° ≏ 47'55	0°09'55
evening max el	15697 Nov 14 15:02	0° ප 44'01	20°21'20	behind sun begin	15698 Oct 02 18:08	27° ≏ 21'52	
desc. node	15697 Nov 18 16:49	4° る 02'32		behind sun end	15698 Oct 03 04:57	28° ≏ 14'01	
retrograde	15697 Nov 25 11:50	6° る 08'33		asc. node	15698 Oct 04 02:27	29° ჲ 58'16	
evening set	15697 Nov 27 17:54	5° る 55'40			15698 Oct 04 02:48	0° M	
inferior conj	15697 Dec 06 13:54	2° る 00'17		evening rise	15698 Oct 11 12:38	14° M 41'39	
minimum elong	15697 Dec 06 04:10	2° ප 14'36			15698 Oct 19 13:56	0° ∡ 7	
min. Earth dist.	15697 Dec 08 02:17	1°る06'45	0.54708 AU	evening max el	15698 Oct 28 04:32	12° 尽 03'21	19°14'35
	15697 Dec 10 01:31	30°₹ ⋌ ¹		desc. node	15698 Nov 05 14:02	16° ₹ 39'50	
morning rise	15697 Dec 14 13:56	27° 🗷 59'22		retrograde	15698 Nov 06 10:38	16° ₹ 42'09	
direct	15697 Dec 19 05:57	27° ⋌ 12'27		evening set	15698 Nov 08 07:54	16° х 31'23	2020155
	15697 Dec 27 21:55	0°ප		inferior conj	15698 Nov 16 20:12	12° ∡ 20'43	-3 30 33

minimum elong	15698 Nov 16 11:36	12° ∡ ³35′04	3°27'05	min. Earth dist.	15699 Nov 01 04:26	200M 5646	0.57722 AU
•		12 x 33 04 10° x 34'24	0.55878 AU				0.31122 AU
min. Earth dist.	15698 Nov 19 12:02		0.55878 AU	morning rise	15699 Nov 05 08:01	18°M16'45	
morning rise	15698 Nov 24 12:54	7°×748'41		direct	15699 Nov 11 12:54	16°M39'06	25001100
direct	15698 Nov 30 02:04	6° ∡ ³38′02		morning max el	15699 Nov 25 19:15	24°ML10'18	27°01'09
morning max el	15698 Dec 14 03:28	13° ∡ 45′52	25°37'59		15699 Dec 01 03:04	0° ∡ 7	
	15698 Dec 26 21:10	0°₹		asc. node	15699 Dec 17 23:43	26° ∡ ¹07'30	
asc. node	15698 Dec 31 02:36	7° る 03'20			15699 Dec 20 00:22	0°ਰ	
morning set	15699 Jan 10 11:29	27° る 32'20		morning set	15699 Dec 25 20:55	12° ろ 00'39	
	15699 Jan 11 14:43	0° ≈					
				superior conj	15700 Jan 01 16:22	27° る 02'44	1°37'25
superior conj	15699 Jan 17 05:06	12° ≈ 23'02	1°37'10	minimum elong	15700 Jan 01 15:53	27° る 00'02	1°38'13
minimum elong	15699 Jan 17 05:40	12° ≈ 26′14	1°37'50	max. Earth dist.	15700 Jan 01 22:35	27° る 37'30	1.31098 AU
max. Earth dist.	15699 Jan 18 15:30	15° ≈ 33'20	1.31656 AU		15700 Jan 03 00:04	0° ≈	
evening rise	15699 Jan 24 08:41	27°≈50'15		evening rise	15700 Jan 08 12:24	12° ≈ 04'48	
	15699 Jan 25 09:50	0° ∀			15700 Jan 17 13:39	0° ∀	
desc. node	15699 Feb 01 13:41	13° ¥ 50′30		desc. node	15700 Jan 19 10:25	3° ¥ 19′28	
	15699 Feb 11 07:35	0° Y			15700 Feb 07 20:21	0 ° Υ	
evening max el	15699 Feb 25 22:11	18° Ƴ 12'05	27°33'54	evening max el	15700 Feb 08 03:03	0° Ƴ 16′00	27°04'48
retrograde	15699 Mar 11 21:10	25° Ƴ 38'45		retrograde	15700 Feb 22 03:47	7° Ƴ 32'46	
evening set	15699 Mar 18 17:04	23° Y 24'25		evening set	15700 Feb 28 19:04	5° Ƴ 38'44	
min. Earth dist.	15699 Mar 22 11:19	20° Y 26'33	0.62015 AU	min. Earth dist.	15700 Mar 04 17:23	2° Y '56'55	0.59770 AU
inferior conj	15699 Mar 25 12:27	17° Ƴ 35'38	-1°07'02	inferior conj	15700 Mar 07 22:35	0° Υ 19'10	-2°32'15
minimum elong	15699 Mar 25 14:46	17° Ƴ 30'11	1°06'16	minimum elong	15700 Mar 08 04:19	0° Υ 07'24	
asc. node	15699 Mar 28 23:47	14° Υ 34'44	1 00 10	mmmum viong	15700 Mar 08 07:56	30°R) €	2 23 50
morning rise	15699 Apr 01 15:34	12° Υ 32'21		morning rise	15700 Mar 15 17:04	25°) 35'33	
direct	15699 Apr 03 21:05	12° Υ 10'03		asc. node	15700 Mar 15 21:11	25° ∺ 33'02	
morning max el	15699 Apr 10 14:33	15° Υ 33'44	17°47'49	direct	15700 Mar 17 17:25	25° H 19'57	
morning max ci	15699 Apr 20 17:56	0° 8	1/4/49	morning max el	15700 Mar 17 17:25 15700 Mar 25 04:45	29° H 03'19	18°05'05
morning set	15699 Apr 26 10:44	9° 8 58'25		morning max er	15700 Mar 26 02:43	29 γ (03 19	18 03 03
desc. node		17° 8 22'28		mamina aat		23° Υ 38'53	
desc. node	15699 Apr 30 15:22	1/ 02228		morning set	15700 Apr 09 18:44	0° 8	
aumariar aani	15600 May 07, 22:27	200856110	0956120	daga mada	15700 Apr 13 04:51	7° 8 52'09	
superior conj	15699 May 07 22:37	29° 8 56'18		desc. node	15700 Apr 17 12:05	/ 63209	
minimum elong	15699 May 07 17:20	29° 8 34'04	0°56'35		15500 1 10 10 20	110125505	0010100
F 4 F	15699 May 07 23:30	0°II	1 12070 177	superior conj	15700 Apr 19 18:26	11° 8 55'27	
max. Earth dist.	15699 May 14 20:52	11° II 21'16	1.43879 AU	minimum elong	15700 Apr 19 16:53	11° 8 48'33	0°18'46
evening rise	15699 May 22 08:15	23° Ⅱ 10′16		max. Earth dist.	15700 Apr 27 08:38	25° 8 00'08	1.42001 AU
	15699 May 26 19:06	0°9			15700 Apr 30 09:17	0°II	
	15699 Jun 16 23:04	0 \circ Ω		evening rise	15700 May 02 13:53	3° Ⅱ 32'44	
evening max el	15699 Jun 22 05:20	5° Ω 57'58	21°19'25		15700 May 20 02:45	0ಂಣ	
asc. node	15699 Jun 24 21:54	8° Ω 23'34		evening max el	15700 Jun 04 22:25	19° © 51'29	22°37'48
retrograde	15699 Jul 01 00:10	11° Ω 03'55		asc. node	15700 Jun 11 18:53	24° © 59'56	
evening set	15699 Jul 05 10:43	9° Ω 15'29		retrograde	15700 Jun 14 21:22	25°5941'48	
inferior conj	15699 Jul 10 16:14	3° Ω 02'35	3°08'56	evening set	15700 Jun 19 19:18	23° © 37'36	
minimum elong	15699 Jul 10 16:04	3° Ω 03'11	3°08'10	inferior conj	15700 Jun 25 02:10	17° © 15'48	3°01'34
min. Earth dist.	15699 Jul 10 23:45	2° Ω 36′24	0.68912 AU	minimum elong	15700 Jun 25 01:06	17° © 19'32	3°00'36
	15699 Jul 12 21:56	30° ₹ 🥯		min. Earth dist.	15700 Jun 24 20:37	17° © 35'09	0.69117 AU
morning rise	15699 Jul 15 21:11	26°5943'34		morning rise	15700 Jun 30 06:44	11° 5 04'01	
direct	15699 Jul 20 22:48	24° © 32'12		direct	15700 Jul 04 20:07	9° © 10'48	
desc. node	15699 Jul 27 14:32	27° 5 24'19		morning max el	15700 Jul 13 18:09	14°521'33	21°31'00
	15699 Jul 30 13:15	$0^{\circ}\Omega$		desc. node	15700 Jul 14 11:49	15° © 06'39	
morning max el	15699 Jul 31 03:23	0° £ 35′00	22°56'57		15700 Jul 26 07:20	$0^{\circ}\Omega$	
	15699 Aug 22 08:46	0° m p		morning set	15700 Aug 14 10:22	28° Ω 35'16	
morning set	15699 Sep 03 07:33	18° m 49'07			15700 Aug 15 07:47	0° m)	
max. Earth dist.	15699 Sep 07 18:09	26° Mp 16'17	1.40208 AU	max. Earth dist.	15700 Aug 20 22:12	9° ™ 01'56	1.42454 AU
	15699 Sep 09 22:03	0∘ ⊽			C		
	1			superior conj	15700 Aug 28 10:34	21° Mp 40'10	-1°22'24
superior conj	15699 Sep 15 14:33	10° ≏ 08'18	-0°46'15	minimum elong	15700 Aug 28 17:11	22° m 08'44	
minimum elong	15699 Sep 15 18:07	10° £ 24'33			15700 Sep 02 04:45	0∘ ⊽	
asc. node	15699 Sep 20 23:07	20° ⊆ 06'14		asc. node	15700 Sep 02 01:15 15700 Sep 07 19:45	ა — 10° ჲ 07'40	
evening rise	15699 Sep 25 07:28	28° £ 23'08		evening rise	15700 Sep 08 14:25	11° £ 32'29	
- , emily 1150	15699 Sep 26 03:47	0°M		- , ching 1150	15700 Sep 08 14.23 15700 Sep 19 06:23	0°M	
evening max el	15699 Oct 11 06:29	24°MJ11'04	18°30'07	evening max el	15700 Sep 19 00.23	6°M57'32	18°06'31
retrograde	15699 Oct 11 00:29 15699 Oct 19 03:53	28°M11'04	10 3007	retrograde	15700 Sep 24 10:38 15700 Oct 01 15:32	10°MJ31'22	10 00 51
evening set	15699 Oct 19 03:33 15699 Oct 21 03:03	27°M56'56		evening set	15700 Oct 01 13.32 15700 Oct 03 21:15	10 11631 22 10°Mc09'34	
desc. node	15699 Oct 21 03:03 15699 Oct 23 11:19	27°1163636 27°1163636		desc. node	15700 Oct 03 21:15 15700 Oct 10 08:40	5°M51'53	
			10/6!11		15700 Oct 10 08:40 15700 Oct 10 24:00		0012107
inferior conj minimum elong	15699 Oct 28 23:28	23°M25'52		inferior conj		5°M17'24 5°M18'18	
manaman elong	15699 Oct 28 19:16	23°M34'03	1 43 31	minimum elong	15700 Oct 10 23:36	2 1101018	0 11 33

4	15700 0-4 10 22-26	5° M L18'18	0011122		15701 C 00 06.40	20° ≏ 12'33	10002112
transit middle	15700 Oct 10 23:36		0 11 33	evening max el	15701 Sep 08 06:48		18°02'12
transit begin	15700 Oct 10 21:15	5°M23'37		retrograde	15701 Sep 14 17:49	23° £ 34'09	
transit end	15700 Oct 11 01:57	5°M12'59	0.5000 (1.77	evening set	15701 Sep 17 07:37	23° Ω 01'05	1000150
min. Earth dist.	15700 Oct 14 05:14	2°M23'40	0.59936 AU	inferior conj	15701 Sep 23 18:41	17° ≏ 49'46	1°02'50
	15700 Oct 17 07:29	30° ₹ Ω		minimum elong	15701 Sep 23 20:23	17° ≏ 45'23	1°02'24
morning rise	15700 Oct 17 22:42	29° ≏ 35'36		min. Earth dist.	15701 Sep 26 15:48	14° ≙ 52'03	0.62229 AU
direct	15700 Oct 24 12:42	27° ≏ 32'30		desc. node	15701 Sep 27 06:03	14° ≏ 17'21	
	15700 Nov 01 03:59	0°M₊		morning rise	15701 Sep 30 06:40	11° ≏ 44'07	
morning max el	15700 Nov 07 19:02	5° M 20′27	27°49'09	direct	15701 Oct 06 23:05	9° ≏ 21'16	
	15700 Nov 26 04:28	0° ∡ ¹		morning max el	15701 Oct 21 01:23	17° ≏ 18'46	27°57'44
asc. node	15700 Dec 04 20:46	15° ∡ 37'12			15701 Oct 31 15:26	0° M	
morning set	15700 Dec 10 02:23	26° ⊀ 14'12			15701 Nov 18 22:52	0° ∡ ¹	
	15700 Dec 11 20:45	0°ප		asc. node	15701 Nov 21 17:41	5° ҂ ¹24'36	
max. Earth dist.	15700 Dec 16 06:05	9° ⋜ 38'48	1.31079 AU	morning set	15701 Nov 24 01:42	10° х 07′09	
				max. Earth dist.	15701 Nov 29 10:05	21° × ⁷ 27'13	1.31619 AU
superior conj	15700 Dec 17 03:39	11° る 39'12	1°31'42				
minimum elong	15700 Dec 17 02:13	11° ට 31'10	1°32'27	superior conj	15701 Dec 01 12:59	26° х ¹06'14	1°19'58
evening rise	15700 Dec 23 20:22	26° පි 28'46	1 3227	minimum elong	15701 Dec 01 10:52	25° х 54'33	1°20'33
evening rise	15700 Dec 25 20:22	20 ⊙ 20 ∓ 0		minimum clong	15701 Dec 03 07:16	23 × 3433	1 2033
desc. node	15700 Dec 25 11:30 15701 Jan 06 07:13	0 ≈ 22°≈14'55		avanina riaa	15701 Dec 08 06:39	0 3 10° る 56'25	
desc. node				evening rise			
	15701 Jan 11 08:58	0° ∀			15701 Dec 17 19:32	0° ≈	
evening max el	15701 Jan 21 00:21	11° ¥ 28′23	26°01'15	desc. node	15701 Dec 24 04:05	10° ≈ 23'35	
retrograde	15701 Feb 03 23:14	18°) 32′11		evening max el	15702 Jan 02 13:19	21° ≈ 50'45	24°30'09
evening set	15701 Feb 10 02:14	17° ∺ 04'06		retrograde	15702 Jan 16 05:31	28° ≈ 39'43	
min. Earth dist.	15701 Feb 14 13:31	14°) € 26′03	0.57619 AU	evening set	15702 Jan 21 11:02	27° ≈ 39'41	
inferior conj	15701 Feb 17 13:39	12° ₩ 18'31	-4°01'49	min. Earth dist.	15702 Jan 27 01:06	24° ≈ 49′06	0.55826 AU
minimum elong	15701 Feb 17 22:27	12°) €02'53	3°58'40	inferior conj	15702 Jan 29 07:26	23° ≈ 25′10	-5°19'36
morning rise	15701 Feb 25 21:45	7° ¥ 56'15		minimum elong	15702 Jan 29 15:57	23° ≈ 12'01	5°17'19
direct	15701 Feb 27 21:27	7°) 43′34		morning rise	15702 Feb 06 22:55	19° ≈ 23'31	
asc. node	15701 Mar 02 18:36	8° ₩ 11'39		direct	15702 Feb 09 05:52	19° ≈ 09'32	
morning max el	15701 Mar 08 11:44	11°) 57′06	18°42'43	asc. node	15702 Feb 17 16:00	22° ≈ 34'26	
	15701 Mar 20 12:06	0°Υ		morning max el	15702 Feb 19 07:14	24°≈02'13	19°42'53
morning set	15701 Mar 24 14:32	7° Υ ′50'39		morning man er	15702 Feb 24 06:45	0°) €	1, .203
morning sec	13/01 14141 21 11.32	, 1303)			13702100 21 00.13	0 /(
-				morning set	15702 Mar 08 18:12	22°¥21'14	
gyporior coni	15701 Apr. 02 10:01	240847154	0016112	morning set	15702 Mar 08 18:12	22° \ 21'14	
superior conj	15701 Apr 02 10:01	24° Y 47'54	0°16'13	morning set	15702 Mar 08 18:12 15702 Mar 12 12:48	22° 升 21'14 0° Ƴ	
minimum elong	15701 Apr 02 11:05	24° Y 52'53	0°16'13 0°15'45	· ·	15702 Mar 12 12:48	0° Ƴ	0045122
minimum elong behind sun begin	15701 Apr 02 11:05 15701 Apr 02 10:05	24° Y 52'53 24° Y 48'12		superior conj	15702 Mar 12 12:48 15702 Mar 16 16:52	0°Υ 8°Υ20'39	0°45'22
minimum elong behind sun begin behind sun end	15701 Apr 02 11:05 15701 Apr 02 10:05 15701 Apr 02 12:05	24° Y '52'53 24° Y '48'12 24° Y '57'34		superior conj minimum elong	15702 Mar 12 12:48 15702 Mar 16 16:52 15702 Mar 16 19:13	0°Υ 8°Υ20'39 8°Υ32'10	0°45'22 0°44'57
minimum elong behind sun begin	15701 Apr 02 11:05 15701 Apr 02 10:05 15701 Apr 02 12:05 15701 Apr 04 08:44	24°Y52'53 24°Y48'12 24°Y57'34 28°Y25'01		superior conj minimum elong desc. node	15702 Mar 12 12:48 15702 Mar 16 16:52 15702 Mar 16 19:13 15702 Mar 22 05:21	0°Υ 8°Υ20'39 8°Υ32'10 18°Υ56'46	0°44'57
minimum elong behind sun begin behind sun end desc. node	15701 Apr 02 11:05 15701 Apr 02 10:05 15701 Apr 02 12:05 15701 Apr 04 08:44 15701 Apr 05 05:27	24°Y52'53 24°Y48'12 24°Y57'34 28°Y25'01 0°8	0°15'45	superior conj minimum elong desc. node max. Earth dist.	15702 Mar 12 12:48 15702 Mar 16 16:52 15702 Mar 16 19:13 15702 Mar 22 05:21 15702 Mar 22 22:57	0°Υ 8°Υ20'39 8°Υ32'10 18°Υ56'46 20°Υ18'35	
minimum elong behind sun begin behind sun end	15701 Apr 02 11:05 15701 Apr 02 10:05 15701 Apr 02 12:05 15701 Apr 04 08:44 15701 Apr 05 05:27 15701 Apr 09 16:31	24°Y52'53 24°Y48'12 24°Y57'34 28°Y25'01 0°8 7°858'49		superior conj minimum elong desc. node	15702 Mar 12 12:48 15702 Mar 16 16:52 15702 Mar 16 19:13 15702 Mar 22 05:21	0°Υ 8°Υ20'39 8°Υ32'10 18°Υ56'46 20°Υ18'35 27°Υ00'02	0°44'57
minimum elong behind sun begin behind sun end desc. node	15701 Apr 02 11:05 15701 Apr 02 10:05 15701 Apr 02 12:05 15701 Apr 04 08:44 15701 Apr 05 05:27	24°Y52'53 24°Y48'12 24°Y57'34 28°Y25'01 0°8	0°15'45	superior conj minimum elong desc. node max. Earth dist.	15702 Mar 12 12:48 15702 Mar 16 16:52 15702 Mar 16 19:13 15702 Mar 22 05:21 15702 Mar 22 22:57	0°Υ 8°Υ20'39 8°Υ32'10 18°Υ56'46 20°Υ18'35	0°44'57
minimum elong behind sun begin behind sun end desc. node max. Earth dist.	15701 Apr 02 11:05 15701 Apr 02 10:05 15701 Apr 02 12:05 15701 Apr 04 08:44 15701 Apr 05 05:27 15701 Apr 09 16:31	24°Y52'53 24°Y48'12 24°Y57'34 28°Y25'01 0°8 7°858'49	0°15'45	superior conj minimum elong desc. node max. Earth dist.	15702 Mar 12 12:48 15702 Mar 16 16:52 15702 Mar 16 19:13 15702 Mar 22 05:21 15702 Mar 22 22:57 15702 Mar 26 15:34	0°Υ 8°Υ20'39 8°Υ32'10 18°Υ56'46 20°Υ18'35 27°Υ00'02	0°44'57
minimum elong behind sun begin behind sun end desc. node max. Earth dist.	15701 Apr 02 11:05 15701 Apr 02 10:05 15701 Apr 02 12:05 15701 Apr 04 08:44 15701 Apr 05 05:27 15701 Apr 09 16:31 15701 Apr 13 16:35	24°Y52'53 24°Y48'12 24°Y57'34 28°Y25'01 0°8 7°858'49 14°851'03	0°15'45	superior conj minimum elong desc. node max. Earth dist.	15702 Mar 12 12:48 15702 Mar 16 16:52 15702 Mar 16 19:13 15702 Mar 22 05:21 15702 Mar 22 22:57 15702 Mar 26 15:34 15702 Mar 28 08:33	0°Υ 8°Υ20'39 8°Υ32'10 18°Υ56'46 20°Υ18'35 27°Υ00'02 0°႘	0°44'57 1.37516 AU
minimum elong behind sun begin behind sun end desc. node max. Earth dist.	15701 Apr 02 11:05 15701 Apr 02 10:05 15701 Apr 02 12:05 15701 Apr 04 08:44 15701 Apr 05 05:27 15701 Apr 09 16:31 15701 Apr 13 16:35 15701 Apr 23 02:22	24°Y52'53 24°Y48'12 24°Y57'34 28°Y25'01 0°B 7°B58'49 14°B51'03 0°II	0°15'45 1.39805 AU	superior conj minimum elong desc. node max. Earth dist. evening rise	15702 Mar 12 12:48 15702 Mar 16 16:52 15702 Mar 16 19:13 15702 Mar 22 05:21 15702 Mar 22 22:57 15702 Mar 26 15:34 15702 Mar 28 08:33 15702 Apr 16 13:35	0°Υ 8°Υ20'39 8°Υ32'10 18°Υ56'46 20°Υ18'35 27°Υ00'02 0°႘ 0°Π	0°44'57 1.37516 AU
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise	15701 Apr 02 11:05 15701 Apr 02 10:05 15701 Apr 02 12:05 15701 Apr 04 08:44 15701 Apr 05 05:27 15701 Apr 09 16:31 15701 Apr 13 16:35 15701 Apr 23 02:22 15701 May 14 23:56	24°Y52'53 24°Y48'12 24°Y57'34 28°Y25'01 0°8 7°858'49 14°851'03 0°II 0°©	0°15'45 1.39805 AU	superior conj minimum elong desc. node max. Earth dist. evening rise	15702 Mar 12 12:48 15702 Mar 16 16:52 15702 Mar 16 19:13 15702 Mar 22 05:21 15702 Mar 22 22:57 15702 Mar 26 15:34 15702 Mar 28 08:33 15702 Apr 16 13:35 15702 May 01 02:13	0°Υ 8°Υ20'39 8°Υ32'10 18°Υ56'46 20°Υ18'35 27°Υ00'02 0°႘ 0°Π 17°Π40'35	0°44'57 1.37516 AU
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el retrograde	15701 Apr 02 11:05 15701 Apr 02 10:05 15701 Apr 02 12:05 15701 Apr 04 08:44 15701 Apr 05 05:27 15701 Apr 09 16:31 15701 Apr 13 16:35 15701 Apr 23 02:22 15701 May 14 23:56 15701 May 18 12:46 15701 May 29 15:31	24°Y52'53 24°Y48'12 24°Y57'34 28°Y25'01 0°8 7°858'49 14°851'03 0°II 0°\$ 3°\$46'24	0°15'45 1.39805 AU	superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node	15702 Mar 12 12:48 15702 Mar 16 16:52 15702 Mar 16 19:13 15702 Mar 22 05:21 15702 Mar 22 22:57 15702 Mar 26 15:34 15702 Mar 28 08:33 15702 Apr 16 13:35 15702 May 01 02:13 15702 May 13 05:38	0°Υ 8°Υ20'39 8°Υ32'10 18°Υ56'46 20°Υ18'35 27°Υ00'02 0°႘ 0°Π 17°Π40'35 24°Π43'14	0°44'57 1.37516 AU
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise	15701 Apr 02 11:05 15701 Apr 02 10:05 15701 Apr 02 12:05 15701 Apr 04 08:44 15701 Apr 05 05:27 15701 Apr 09 16:31 15701 Apr 13 16:35 15701 Apr 23 02:22 15701 May 14 23:56 15701 May 18 12:46	24°Y52'53 24°Y48'12 24°Y57'34 28°Y25'01 0°8 7°858'49 14°851'03 0°II 0°S 3°S46'24 10°S17'12	0°15'45 1.39805 AU	superior conj minimum elong desc. node max. Earth dist. evening rise	15702 Mar 12 12:48 15702 Mar 16 16:52 15702 Mar 16 19:13 15702 Mar 22 05:21 15702 Mar 22 22:57 15702 Mar 26 15:34 15702 Mar 28 08:33 15702 Apr 16 13:35 15702 May 01 02:13 15702 May 13 05:38 15702 May 16 13:05	0°Υ 8°Υ20'39 8°Υ32'10 18°Υ56'46 20°Υ18'35 27°Υ00'02 0°Β 0°Π 17°Π40'35 24°Π43'14 23°Π57'44	0°44'57 1.37516 AU
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minimum elong behind sun begin behind sun end 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	15701 Apr 02 11:05 15701 Apr 02 10:05 15701 Apr 02 12:05 15701 Apr 04 08:44 15701 Apr 05 05:27 15701 Apr 09 16:31 15701 Apr 13 16:35 15701 Apr 23 02:22 15701 May 14 23:56 15701 May 18 12:46 15701 May 29 15:31 15701 May 29 15:31 15701 Jun 04 01:09 15701 Jun 08 16:57 15701 Jun 09 09:41 15701 Jun 10 14:38 15701 Jun 12 14:38 15701 Jun 18 19:36 15701 Jun 26 15:02 15701 Jun 28 05:45 15701 Jul 01 09:00 15701 Jul 01 09:00 15701 Jul 01 09:00	24°Y52'53 24°Y48'12 24°Y57'34 28°Y25'01 0°8 7°858'49 14°851'03 0°II 0°9 3°946'24 10°917'12 10°917'12 7°959'33 2°934'28 1°931'31 1°937'34 30°RII 25°II28'22 23°II54'59 28°II18'56 0°9 3°941'56 0°Ω	0°15'45 1.39805 AU 23°59'16 0.68835 AU 2°43'47 2°42'35	superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy	15702 Mar 12 12:48 15702 Mar 16 16:52 15702 Mar 16 19:13 15702 Mar 22 05:21 15702 Mar 22 22:57 15702 Mar 26 15:34 15702 Mar 28 08:33 15702 Apr 16 13:35 15702 May 01 02:13 15702 May 13 05:38 15702 May 16 13:05 15702 May 19 02:37 15702 May 23 10:38 15702 May 24 18:09 15702 May 24 16:00 15702 May 30 05:46 15702 Jun 02 19:45 15702 Jun 09 19:19 15702 Jun 18 06:05 15702 Jun 22 14:03 15702 Jun 23 02:28 15702 Jul 03 23:12 15702 Jul 12 15:59	8°Y20'39 8°Y32'10 18°Y56'46 20°Y18'35 27°Y00'02 0°B 0°II 17°II40'35 24°II43'14 23°II57'44 17°II27'31 15°II5'01 15°II5'03 9°II51'48 8°II38'09 12°II26'37 22°II55'50 29°II13'44 0°S 16°S32'26 0°Ω	0°44'57 1.37516 AU 25°17'06 0.68071 AU 2°15'17 2°13'56 19°13'01
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	15702 4 20 06 17	70 0 10101		1 202	15702 1 1 24 00 24	200 0 40100	0.0
retrograde	15702 Aug 29 06:17 15702 Sep 01 04:46	7° ♀ 10'21 6° ♀ 23'10		greatest brilliancy	15703 Jul 24 09:34 15703 Jul 24 12:24	29° Ω 49'00 0° m	-0.8m
evening set inferior conj	15702 Sep 01 04.46 15702 Sep 07 03:31	0° £ 23 10	1°57'58	asc. node	15703 Jul 24 12.24 15703 Jul 30 09:43	8° Mp 49'50	
minimum elong	15702 Sep 07 05:52	0° <u>₽</u> 48'37	1°57'13	evening max el	15703 Jul 30 09:43	17° m) 33'50	18°47'40
minimum clong	15702 Sep 07 03:32 15702 Sep 07 22:38	30°RM)	1 3/13	retrograde	15703 Aug 00 09:27 15703 Aug 13 00:59	21° m) 10'56	16 4/40
min. Earth dist.	15702 Sep 07 22:38 15702 Sep 09 12:22	28° Mp 12'05	0.64364 AU	evening set	15703 Aug 15 00:39	20° m ₀ 10'30	
morning rise	15702 Sep 13 05:19	24° m _p 35'28	0.04304 AC	inferior conj	15703 Aug 21 22:42	14° m) 25'28	2°35'35
desc. node	15702 Sep 14 03:27	23° m 54'36		minimum elong	15703 Aug 22 00:47	14° M) 18'56	2°34'50
direct	15702 Sep 19 18:40	22° m/00'48		min. Earth dist.	15703 Aug 23 17:44	12° m) 10'50	0.66193 AU
morning max el	15702 Oct 03 11:45	29° m 58'23	27°29'53	morning rise	15703 Aug 27 15:51	7° mp 59'31	0.00175110
morning man or	15702 Oct 03 12:24	0∘ ⊽	27 27 03	desc. node	15703 Sep 01 00:52	5° m/35'19	
	15702 Oct 25 15:08	0° M .		direct	15703 Sep 02 22:06	5° m) 21'44	
morning set	15702 Nov 07 16:26	23°M34'42		morning max el	15703 Sep 15 23:16	13° m) 05'47	26°32'49
asc. node	15702 Nov 08 14:31	25°M24'25		Č	15703 Sep 29 15:30	0∘ ⊽	
	15702 Nov 10 20:53	0° ∡ ¹			15703 Oct 18 07:09	0° M .	
max. Earth dist.	15702 Nov 12 06:58	2° ∡ ¹56'35	1.32723 AU	morning set	15703 Oct 21 19:31	6°M29'18	
				max. Earth dist.	15703 Oct 25 18:01	14°ML05'49	1.34368 AU
superior conj	15702 Nov 15 18:24	10° ∡ 19'17	1°02'10	asc. node	15703 Oct 26 11:17	15°MJ31'33	
minimum elong	15702 Nov 15 16:03	10° ∡ ¹06'40	1°02'33				
evening rise	15702 Nov 22 17:28	25° ∡ ¹23'58		superior conj	15703 Oct 30 17:28	24°M11'57	0°38'20
	15702 Nov 24 21:36	5°0		minimum elong	15703 Oct 30 15:34	24° ML $02'04$	0°38'37
desc. node	15702 Dec 11 01:02	27° る 28'58			15703 Nov 02 11:55	0° ∡ ¹	
	15702 Dec 13 05:11	0° ≈		evening rise	15703 Nov 07 02:55	9° ∡ ¹46'19	
evening max el	15702 Dec 14 22:43	1° ≈ 46'48	22°46'54		15703 Nov 17 15:27	0°ರ	
retrograde	15702 Dec 27 23:14	8° ≈ 13'43		evening max el	15703 Nov 26 14:25	11° පි 55'21	21°09'33
evening set	15702 Dec 31 22:31	7° ≈ 39'21		desc. node	15703 Nov 27 22:05	13° පි 09'15	
min. Earth dist.	15703 Jan 08 07:41	4° ≈ 16′23	0.54685 AU	retrograde	15703 Dec 08 09:24	17° る 45'42	
inferior conj	15703 Jan 09 06:39	3° ≈ 43'49		evening set	15703 Dec 11 02:51	17° ට 28'18	
minimum elong	15703 Jan 09 08:31	3° ≈ 41'11	5°59'21	inferior conj	15703 Dec 19 21:27	13° පි 37'08	
	15703 Jan 17 11:55	30°Rる		minimum elong	15703 Dec 19 14:21	13° ठ 47′10	
morning rise	15703 Jan 17 19:48	29° ප් 55'19		min. Earth dist.	15703 Dec 20 13:11	13° ට 14'52	0.54423 AU
direct	15703 Jan 20 20:23	29° る 34'15		morning rise	15703 Dec 28 02:07	9° る 45'57	
	15703 Jan 24 02:19	0° ≈	01006101	direct	15704 Jan 01 03:41	9°る10'17	22240106
morning max el	15703 Feb 01 12:08	5°≈11'11	21°06'21	morning max el	15704 Jan 14 03:20	15° る 29'02	22°49'06
asc. node	15703 Feb 04 13:19	8°≈28'43		asc. node	15704 Jan 22 10:36	25° る 36'19	
	15703 Feb 17 16:14	0° ∺ 7° ∺ 01'58			15704 Jan 25 06:09	0°≈	
morning set	15703 Feb 21 02:50	/ π0138		morning set	15704 Feb 05 14:07 15704 Feb 09 09:58	21° ≈ 46'11 0° ∀	
superior conj	15703 Feb 28 11:01	22° ∺ 22'43	1°08'08		13/04 Feb 09 09.38	υ χ	
minimum elong	15703 Feb 28 13:34	22°\(\frac{7}{2243}\)		superior conj	15704 Feb 12 13:06	6° ¥ 44'31	1°24'22
minimum clong	15703 Mar 04 05:14	22 γ (33 30	1 07 38	minimum elong	15704 Feb 12 15:10	6°\(\frac{44}{55}\)'32	1°24'35
max. Earth dist.	15703 Mar 05 08:09	2°Υ'13'00	1.35373 AU	max. Earth dist.	15704 Feb 16 00:02	14°) 01'46	1.33565 AU
evening rise	15703 Mar 09 07:49	9° Υ 51'25	1.55575110	evening rise	15704 Feb 20 13:51	23° ¥ 16'07	1.55500 110
desc. node	15703 Mar 09 01:57	9° Υ 23'54		desc. node	15704 Feb 23 22:34	29°) 42'20	
	15703 Mar 20 22:46	0°8			15704 Feb 24 02:22	0°Υ	
	15703 Apr 12 04:14	0°II			15704 Mar 13 14:14	0°8	
evening max el	15703 Apr 13 15:46	1° Ⅱ 29'32	26°23'59	evening max el	15704 Mar 26 05:23	15° 8 05'22	27°12'28
retrograde	15703 Apr 26 14:48	8° Ⅱ 52'40		retrograde	15704 Apr 08 18:06	22° 8 36'55	
evening set	15703 May 02 21:55	6° Ⅱ 20′18		evening set	15704 Apr 15 09:03	20° 8 06'07	
asc. node	15703 May 03 10:18	5° Ⅱ 53'58		asc. node	15704 Apr 19 07:34	16° 8 22'05	
min. Earth dist.	15703 May 06 23:41	2° Ⅱ 07'26	0.66851 AU	min. Earth dist.	15704 Apr 19 06:10	16° 8 25'53	0.65218 AU
inferior conj	15703 May 08 20:10	29° 8 51'58	1°35'21	inferior conj	15704 Apr 21 15:08	13° 8 46'47	0°42'55
minimum elong	15703 May 08 18:09	29° 8 58'08	1°34'00	minimum elong	15704 Apr 21 14:00	13° 8 49'58	0°41'58
	15703 May 08 17:33	30° ₹ 8		morning rise	15704 Apr 27 20:44	8° 8 17'38	
morning rise	15703 May 14 15:23	24° 8 09'54		direct	15704 Apr 30 14:36	7° 8 37'35	
direct	15703 May 17 18:46	23° 8 14'24		morning max el	15704 May 06 21:59	10° 8 53'40	17°58'02
morning max el	15703 May 24 06:17	26° 8 40'26	18°27'03		15704 May 20 08:33	$0^{\circ}\Pi$	
_	15703 May 27 06:17	0°II		desc. node	15704 May 22 00:00	2° Ⅱ 41'15	
desc. node	15703 Jun 05 03:05	12° Ⅱ 38′08		morning set	15704 May 24 21:42	7° Ⅱ 27'16	
morning set	15703 Jun 13 20:53	26° Ⅱ 20′24			15704 Jun 07 20:43	0ං ව	
	15703 Jun 16 04:35	0ං ව			155017 00 000	00-0	1051:25
	15702 I 20 15 10	21050	2011124	superior conj	15704 Jun 08 04:59	0°532'42	
superior conj	15703 Jun 29 15:40	21°904'45		minimum elong	15704 Jun 07 20:25	29° Ⅱ 58'48	1°51'44
minimum elong	15703 Jun 29 11:40	20°549'09		max. Earth dist.	15704 Jun 11 17:49	6°906'24	1.45715 AU
max. Earth dist.	15703 Jun 29 21:44	21°€28′22 0° Ω	1.45973 AU	evening rise	15704 Jun 24 06:33	25°930'28	
avaning rise	15703 Jul	0° 3 <i>l</i> 15° Ω 53'31		grantagt brillianar	15704 Jul 07 23:13	0°Ω 16°Ω12'14	0.6m
evening rise	15703 Jul 15 12:20	15 663531		greatest brilliancy	15704 Jul 07 23:13	10 8612 14	-0.0111

asc. node	15704 Jul 16 06:29	27° Ω 35'44		max. Earth dist.	15705 May 25 12:30	20° Ⅲ 34'13	1.44738 AU
	15704 Jul 18 07:56	0° m)			15705 May 31 12:34	0 \circ \odot	
evening max el	15704 Jul 19 16:48	1°Mp26'10	19°35'34	evening rise	15705 Jun 03 17:11	4° © 55'29	
retrograde	15704 Jul 26 22:58	5° m 29'41			15705 Jun 20 14:48	$0^{\circ}\Omega$	
evening set	15704 Jul 30 16:39	4° Mp 08′48		evening max el	15705 Jul 02 18:15	15° Ω 20′01	20°38'03
	15704 Aug 03 16:40	30° R Ω		asc. node	15705 Jul 03 03:20	15° Ω 42'19	
inferior conj	15704 Aug 05 01:06	28° Ω 13'51	2°58'17	retrograde	15705 Jul 10 21:59	20° Ω 00′32	
minimum elong	15704 Aug 05 02:26	28° Ω 09′25	2°57'36	evening set	15705 Jul 15 02:16	18° Ω 21'52	
min. Earth dist.	15704 Aug 06 06:05	26° Ω 37'34	0.67621 AU	inferior conj	15705 Jul 20 08:08		3°08'18
morning rise	15704 Aug 10 11:41	21° Ω 47'53		minimum elong	15705 Jul 20 08:31	12° Ω 13′53	3°07'35
direct	15704 Aug 16 08:03	19° Ω 15′20		min. Earth dist.	15705 Jul 20 23:19	11° Ω 22'52	0.68587 AU
desc. node	15704 Aug 17 22:17	19° Ω 25'16		morning rise	15705 Jul 25 14:27	5° Ω 53'07	
morning max el	15704 Aug 28 10:17	26° Ω 29'39	25°15'40	direct	15705 Jul 30 23:12	3° Ω 32'39	
	15704 Aug 31 16:15	0° m		desc. node	15705 Aug 04 19:40	5° Ω 04'40	
	15704 Sep 22 05:17	0∘ ⊽		morning max el	15705 Aug 10 21:05	10° Ω 03'27	23°48'15
morning set	15704 Oct 03 07:09	18° Ω 42'15	1.26460.444		15705 Aug 26 16:42	0° my	
max. Earth dist.	15704 Oct 06 20:08	25° Ω 10'19	1.36469 AU	morning set	15705 Sep 14 23:09	0° Ω 03'54	
,	15704 Oct 09 09:32	0°M		P. d. F.	15705 Sep 14 22:14	0° ⊽	1 20020 444
asc. node	15704 Oct 12 08:00	5°M42'02		max. Earth dist.	15705 Sep 18 18:47	6° £ 39'45	1.38838 AU
superior conj	15704 Oct 13 07:19	7° M 37'15	0°08'50	superior conj	15705 Sep 26 08:21	20° £ 26'47	
minimum elong	15704 Oct 13 06:45	7° ™ 34'26	0°09'11	minimum elong	15705 Sep 26 10:09	20° ≏ 35'17	0°24'45
behind sun begin	15704 Oct 13 01:27	7° M 08'10		asc. node	15705 Sep 29 04:42	25° ≏ 52'21	
behind sun end	15704 Oct 13 12:03	8°M00'46			15705 Oct 01 07:50	0° M	
evening rise	15704 Oct 21 08:51	23°M58'24		evening rise	15705 Oct 05 08:41	7°M53'58	
	15704 Oct 24 08:40	0° ∡			15705 Oct 17 21:36	0° ∡ ¹	
evening max el	15704 Nov 07 19:42	22° ∡ ¹46'17	19°50'12	evening max el	15705 Oct 21 15:02	4° ₹ 27'45	18°52'59
desc. node	15704 Nov 13 19:14	26° ₹ 59'52		retrograde	15705 Oct 30 05:49	8° ∡ '48'28	
retrograde	15704 Nov 17 23:34	27° х 50'29		desc. node	15705 Oct 31 16:28	8° ∡ 741'34	
evening set	15704 Nov 20 00:15	27° х 39'18	4020111	evening set	15705 Nov 01 03:14	8° ₹ 36'42	2046100
inferior conj	15704 Nov 28 18:28	23° 🗷 38'53		inferior conj	15705 Nov 09 09:18	4° √ 17'29	
minimum elong	15704 Nov 28 08:28	23° 🗷 54'16	4°24'23	minimum elong	15705 Nov 09 02:28	4°×729'38	2°42'48
min. Earth dist.	15704 Nov 30 20:28	22° 尽 21'56 19° 尽 26'15	0.55109 AU	min. Earth dist.	15705 Nov 12 08:26	2° ∡ 11'27	0.56600 AU
morning rise direct	15704 Dec 06 15:18 15704 Dec 11 17:13	18° × 2013		morning rise	15705 Nov 15 22:15 15705 Nov 16 22:48	30°RM 29°M30'07	
morning max el	15704 Dec 25 11:56	25° x ² 21'19	24°38'57	direct	15705 Nov 10 22:48 15705 Nov 22 19:35	28°M08'13	
morning max ci	15704 Dec 29 19:46	0°る	24 3637	direct	15705 Nov 29 17:49	20 11000 13 0° √ 1	
asc. node	15705 Jan 08 07:51	13°る40'09		morning max el	15705 Dec 06 23:28	5° ∡ 125'51	26°17'09
asc. node	15705 Jan 17 00:28	0°≈		morning max cr	15705 Dec 24 20:18	0°る	20 17 07
morning set	15705 Jan 20 02:04	6°≈28'03		asc. node	15705 Dec 26 05:01	0 C 2°る26'07	
morning sec	15/05 3411 20 02.01	0 /4 20 03		morning set	15706 Jan 04 12:58	21° පි 03'17	
superior conj	15705 Jan 26 20:27	21° ≈ 18′06	1°34'16		15706 Jan 08 14:46	0° ≈	
minimum elong	15705 Jan 26 21:38	21° ≈ 24'32	1°34'48				
max. Earth dist.	15705 Jan 28 23:40	25°≈57'34	1.32210 AU	superior conj	15706 Jan 11 06:53	5° ≈ 57'33	1°38'00
	15705 Jan 30 20:48	0°) €		minimum elong	15706 Jan 11 07:00	5° ≈ 58'15	1°38'45
evening rise	15705 Feb 03 06:24	7°) €05'25		max. Earth dist.	15706 Jan 12 05:11	8° ≈ 01'45	1.31356 AU
desc. node	15705 Feb 09 19:13	19°) 46′43		evening rise	15706 Jan 18 06:45	21° ≈ 12'55	
	15705 Feb 15 15:09	0° Y			15706 Jan 22 14:18	0°) €	
evening max el	15705 Mar 08 17:37	28° Y 15'42	27°35'11	desc. node	15706 Jan 27 15:56	9° ∺ 31'13	
	15705 Mar 10 15:15	0° 8			15706 Feb 09 17:49	0° Y	
retrograde	15705 Mar 22 14:10	5° 8 45'30		evening max el	15706 Feb 19 01:59	10° Ƴ 47'22	27°25'54
evening set	15705 Mar 29 09:34	3° 8 23'20		retrograde	15706 Mar 05 01:47	18° Y ′09'22	
min. Earth dist.	15705 Apr 02 04:06	0° 8 11'39	0.63252 AU	evening set	15706 Mar 11 20:41	16° Y ′02'59	
	15705 Apr 02 08:54	30° ₹Ƴ		min. Earth dist.	15706 Mar 15 15:59	13° Y 13′15	0.61068 AU
inferior conj	15705 Apr 05 00:06	27° Y 21'07		inferior conj	15706 Mar 18 19:38	10° Y ′26′07	
minimum elong	15705 Apr 05 00:50	27° Y 19'14	0°23'00	minimum elong	15706 Mar 18 23:19	10° Y 17'54	1°40'34
asc. node	15705 Apr 06 04:55	26° Y ′09'36		asc. node	15706 Mar 24 02:17	6° Y 25′05	
morning rise	15705 Apr 11 18:42	22° Y 07'16		morning rise	15706 Mar 26 05:14	5° Υ 30'41	
direct	15705 Apr 14 04:19	21° Υ 39'25	1004220	direct	15706 Mar 28 08:21	5°Υ11'33	15055
morning max el	15705 Apr 20 15:38	24° Y 57'09	17°46'23	morning max el	15706 Apr 04 08:04	8° Y 42'00	17°52'48
	15705 Apr 24 20:50	0°8		•	15706 Apr 18 06:39	0°8	
morning set	15705 May 07 00:25	19° 8 47'26		morning set	15706 Apr 19 23:21	3° 8 03'37	
desc. node	15705 May 08 20:51	22° 8 58'24		desc. node	15706 Apr 25 17:37	13° 8 24'56	
	15705 May 12 23:42	Π °0		gunorier con:	15706 Amm 20 19.50	220 1 5122	0040110
gunariar car:	15705 May 10 12:10	10° ∏ 51'40	1010120	superior conj	15706 Apr 30 18:52 15706 Apr 30 15:14	22° 8 15'23 21° 8 59'48	-0°40'18 0°40'21
superior conj minimum elong	15705 May 19 12:10 15705 May 19 04:49	10°Щ51'40 10°Щ21'32		minimum elong	15706 Apr 30 15:14 15706 May 05 08:35	21° O 59'48 0°耳	0 4021
minimum ciong	13/03 Iviay 19 04.49	10 1121 32	1 10 20		15/00 Way 05 06.55	νщ	

max. Earth dist.	15706 May 08 03:27	4° Ⅱ 36'00	1.43139 AU	desc. node	15707 Apr 12 14:18	3° 8 56'33	
evening rise	15706 May 14 12:36	14° ∏ 49′20		max. Earth dist.	15707 Apr 20 13:24	17° 8 58'21	1.41087 AU
	15706 May 24 11:21	0 \circ \odot		evening rise	15707 Apr 25 02:51	25° 8 34'49	
evening max el	15706 Jun 15 13:55	29° © 13'23	21°51'55		15707 Apr 27 20:26	Π °0	
	15706 Jun 16 09:03	0 $^{\circ}\Omega$			15707 May 18 05:28	0 \circ \odot	
asc. node	15706 Jun 20 00:15	2° Ω 56′26		evening max el	15707 May 29 05:24	13°907'07	23°12'25
retrograde	15706 Jun 24 20:17	4°Ω37'52		asc. node	15707 Jun 06 21:14	19°501'55	
evening set	15706 Jun 29 11:44 15706 Jul 02 01:31	2° Ω 42'14 30°R ©		retrograde evening set	15707 Jun 08 16:26 15707 Jun 13 19:23	19° © 16'00 17° © 05'28	
inferior conj	15706 Jul 02 01:31 15706 Jul 04 17:33	26°\$25'18	3°07'03	min. Earth dist.	15707 Jun 18 16:17	17 3 03 28	0.69050 AU
minimum elong	15706 Jul 04 16:59	26°\$27'17	3°06'13	inferior conj	15707 Jun 19 03:26	10°5540'26	2°55'18
min. Earth dist.	15706 Jul 04 19:24	26°518'51	0.69065 AU	minimum elong	15707 Jun 19 02:02	10°9545'17	2°54'15
morning rise	15706 Jul 09 22:04	20°509'26		morning rise	15707 Jun 24 08:38	4° © 32'15	
direct	15706 Jul 14 18:28	18° © 05'39		direct	15707 Jun 28 16:44	2° 5 47'39	
desc. node	15706 Jul 22 16:59	22° © 08'45		morning max el	15707 Jul 07 03:00	7° 5 37'43	20°57'16
morning max el	15706 Jul 24 09:44	23° © 45'40	22°19'33	desc. node	15707 Jul 09 14:14	10° © 16'03	
	15706 Jul 29 22:08	0 \circ Ω			15707 Jul 24 06:28	0 $^{\circ}$ Ω	
_	15706 Aug 20 01:20	0° m/		morning set	15707 Aug 06 09:33	19° Ω 50′09	
morning set	15706 Aug 26 15:51	10° Mp 25'45	1 41205 ATT	To all the	15707 Aug 12 19:50	0° Mp	1 42200 ATT
max. Earth dist.	15706 Aug 31 20:06	18°₯56'52 0°₽	1.41205 AU	max. Earth dist.	15707 Aug 14 03:14	2°110/06'3/	1.43290 AU
	15706 Sep 07 06:23	0 ==		superior conj	15707 Aug 21 02:43	13° Mp 37'56	1036'33
superior conj	15706 Sep 08 16:13	2° ≏ 29'50	-1°01'49	minimum elong	15707 Aug 21 02:43	14° Mp 09'33	
minimum elong	15706 Sep 08 21:09	2° ≏ 51'48	1°01'06	minimum crong	15707 Aug 30 13:39	0° ⊡	1 30 02
asc. node	15706 Sep 16 01:20	15° ≏ 58'18		evening rise	15707 Sep 01 23:38	4° Ω 17'14	
evening rise	15706 Sep 18 23:02	21° ≏ 23'47		asc. node	15707 Sep 02 21:58	5° £ 56'31	
	15706 Sep 23 14:36	0° M			15707 Sep 18 11:57	0° M	
evening max el	15706 Oct 04 20:56	16°M53'01	18°17'31	evening max el	15707 Sep 18 09:15	29° ჲ 53'21	18°02'18
retrograde	15706 Oct 12 07:32	20°M40'35		retrograde	15707 Sep 25 02:02	3°M20'36	
evening set	15706 Oct 14 09:05	20°M23'42		evening set	15707 Sep 27 10:56	2°M54'34	
desc. node	15706 Oct 18 13:47	18°M18'45			15707 Oct 02 00:04	30° ₹ Ω	
inferior conj	15706 Oct 21 21:53	15°M43'09		inferior conj	15707 Oct 04 06:42	27° £ 54'04	0°22'05
minimum elong min. Earth dist.	15706 Oct 21 19:29 15706 Oct 25 04:06	15°M48'09 13°M01'16	1°02'41 0.58635 AU	minimum elong desc. node	15707 Oct 04 07:23 15707 Oct 05 11:07	27° £ 52'24 26° £ 45'18	0°22'09
morning rise	15706 Oct 29 02:24	10°M19'04	0.38033 AU	min. Earth dist.	15707 Oct 03 11.07 15707 Oct 07 09:17	26 2 43 18 24° 2 55'53	0.60917 AU
direct	15706 Nov 04 11:45	8°M30'28		morning rise	15707 Oct 07 09:17 15707 Oct 11 00:48	22° £ 00'32	0.00917 AU
morning max el	15706 Nov 18 18:52	16°M09'24	27°26'26	direct	15707 Oct 17 16:28	19° Ω 48'03	
Ü	15706 Nov 30 03:12	0° ∡ ¹		morning max el	15707 Oct 31 21:59	27° Ω 41'55	27°57'28
asc. node	15706 Dec 13 02:06	21° ∡ ⁴42'22			15707 Nov 03 03:16	0° M	
	15706 Dec 17 06:36	8°0			15707 Nov 23 21:23	0° ≯	
morning set	15706 Dec 19 20:57	5° る 26'05		asc. node	15707 Nov 29 23:06	11° ≯ 20'42	
		_		morning set	15707 Dec 04 00:04	19° ∡ 31'52	
superior conj	15706 Dec 26 18:21	20°₹36′20			15707 Dec 08 21:06	0°る 	
minimum elong	15706 Dec 26 17:27	20° ろ 31'14	1°36'31	max. Earth dist.	15707 Dec 09 19:23	2° る 02'52	1.31239 AU
max. Earth dist.	15706 Dec 26 13:00 15706 Dec 30 23:30	20°る06'21 0°≈	1.31024 AU	superior conj	15707 Dec 11 05:03	5° る 09'37	1°27'28
evening rise	15700 Dec 30 23:30 15707 Jan 02 12:29	0 ∞ 5°≈31'49		minimum elong	15707 Dec 11 03:03	3 00937 4° る 59'46	1°28'09
desc. node	15707 Jan 14 12:40	28° ≈ 47'15		evening rise	15707 Dec 17 03:17	19° ට 57'44	1 200)
	15707 Jan 15 05:52	0°) €			15707 Dec 22 16:53	0° ≈	
evening max el	15707 Feb 01 03:38	22°) €28'48	26°41'39	desc. node	15708 Jan 01 09:28	17° ≈ 24'33	
retrograde	15707 Feb 15 03:42	29°) (40′25			15708 Jan 10 16:45	0°) €	
evening set	15707 Feb 21 15:04	27°) ₹56′32		evening max el	15708 Jan 13 20:58	3° ¥ 17′38	25°25'01
min. Earth dist.	15707 Feb 25 17:21	25° ¥ 18′26	0.58830 AU	retrograde	15708 Jan 27 18:08	10°) 16′26	
inferior conj	15707 Feb 28 21:57	22°) 51'24		evening set	15708 Feb 02 13:02	9° ₩ 00'10	
minimum elong	15707 Mar 01 05:10		3°07'37	min. Earth dist.	15708 Feb 07 09:35	6°) 18'53	0.56788 AU
morning rise	15707 Mar 08 22:43	18°) 17'06		inferior conj	15708 Feb 10 03:56	4° ¥ 28'19	
direct asc. node	15707 Mar 10 22:10 15707 Mar 10 23:41	18°) €03'11 18°) €03'12		minimum elong morning rise	15708 Feb 10 13:16 15708 Feb 18 16:17	4°) 12'45 0°) 15'30	7 24 40
morning max el	15707 Mar 18 19:42	21° H 57'42	18°18'35	direct	15708 Feb 18 10.17 15708 Feb 20 17:39	0° X 1330	
	15707 Mar 25 00:33	0°Υ		asc. node	15708 Feb 25 21:05	1° ∺ 26'35	
morning set	15707 Apr 03 12:51	16° Y 58'43		morning max el	15708 Feb 29 22:21	4°) 32′26	19°05'33
-	15707 Apr 10 10:49	0°B		-	15708 Mar 16 20:17	$0^{\circ}\Upsilon$	
				morning set	15708 Mar 17 12:22	1° Ƴ 19'18	
superior conj	15707 Apr 12 23:36	4° 8 38'51					
minimum elong	15707 Apr 12 23:19	4° 8 37'37	0°03'36	superior conj	15708 Mar 25 22:10	17° Y 49'52	
behind sun begin	15707 Apr 12 16:06	4° 8 04'45		minimum elong	15708 Mar 25 23:56	17° Y 58'17	0°28'51
behind sun end	15707 Apr 13 06:33	5° 8 10'24		desc. node	15708 Mar 29 10:55	24° Ƴ 29'27	

	15708 Apr 01 11:21	0°B		desc. node	15709 Mar 16 07:31	15° Y ′00'10	
max. Earth dist.	15708 Apr 01 11:21	0° と 37'14	1.38816 AU	evening rise	15709 Mar 18 21:16	19° Υ 44'39	
evening rise	15708 Apr 05 14:24	7° 8 15'27	1.50010710	evening rise	15709 Mar 16 21:10	0°8	
e vening rise	15708 Apr 19 19:14	0° П			15709 Apr 13 20:29	0°Ⅱ	
evening max el	15708 May 10 19:01	27° I I01'41	24°33'21	evening max el	15709 Apr 23 08:39	10° Ⅱ 55'24	25°47'26
evening man er	15708 May 14 01:49	0.00	2.3321	retrograde	15709 May 05 21:14	18° I I08'02	20 17 20
retrograde	15708 May 22 09:08	3°548'10		asc. node	15709 May 10 15:28	16° Ⅲ 36'28	
asc. node	15708 May 23 18:19	3°540'02		evening set	15709 May 11 22:36	15° Ⅲ 38′07	
evening set	15708 May 27 23:33	1° © 25'52		min. Earth dist.	15709 May 16 03:54	11° Ⅱ 04'54	0.67603 AU
-	15708 May 29 10:55	30° Ŗ Ⅱ		inferior conj	15709 May 17 16:50	9° Ⅱ 07'43	1°59'51
min. Earth dist.	15708 Jun 01 11:49	26° Ⅱ 16'23	0.68557 AU	minimum elong	15709 May 17 14:40	9° Ⅱ 14'38	1°58'28
inferior conj	15708 Jun 02 11:51	24° Ⅱ 55'56	2°33'03	morning rise	15709 May 23 07:19	3° Ⅱ 18'46	
minimum elong	15708 Jun 02 09:52	25° Ⅱ 02'36	2°31'48	direct	15709 May 26 16:43	2° Ⅱ 12'58	
morning rise	15708 Jun 07 20:19	18° Ⅱ 56'41		morning max el	15709 Jun 02 10:07	5° Ⅱ 50′20	18°51'24
direct	15708 Jun 11 16:41	17° Ⅲ 31'52		desc. node	15709 Jun 12 08:25	18° Ⅲ 36'35	
morning max el	15708 Jun 19 02:56	21° Ⅲ 39'44	19°46'47	greatest brilliancy	15709 Jun 15 23:59	24° Ⅱ 04'25	-0.8m
desc. node	15708 Jun 25 11:22	29° Ⅲ 09'21			15709 Jun 19 20:49	0 \circ \odot	
	15708 Jun 26 02:33	0 \circ \odot		morning set	15709 Jun 24 23:31	7° 9 54'48	
morning set	15708 Jul 15 13:36	28°5641'50			15709 Jul 09 04:19	$0^{\circ}\Omega$	
	15708 Jul 16 09:57	$0^{\circ}\Omega$		max. Earth dist.	15709 Jul 09 10:37	0° Ω 24'36	1.45788 AU
max. Earth dist.	15708 Jul 26 16:27	16° Ω 00'02	1.44870 AU				
				superior conj	15709 Jul 11 04:57	3° Ω 10′10	-2°14'08
superior conj	15708 Jul 31 13:36	23° Ω 47′08	-2°03'09	minimum elong	15709 Jul 11 05:31	3° Ω 12'21	2°14'53
minimum elong	15708 Jul 31 20:19	24° Ω 14′09	2°03'19	evening rise	15709 Jul 26 10:51	27° \O 22'06	
	15708 Aug 04 09:35	0° m			15709 Jul 28 02:05	0° ™	
evening rise	15708 Aug 14 05:09	16°M)20'18		asc. node	15709 Aug 06 15:14	15°M)09'52	
asc. node	15708 Aug 19 18:35	25° Mp 42'06		evening max el	15709 Aug 15 13:57	26° m 59'19	18°27'32
	15708 Aug 22 09:10	0∘ ⊽			15709 Aug 19 19:45	0∘ ⊽	
evening max el	15708 Sep 01 00:03	13° ≏ 18'23	18°05'59	retrograde	15709 Aug 22 00:28	0° ჲ 26'16	
retrograde	15708 Sep 07 09:04	16° ≏ 38'46			15709 Aug 24 04:19	30°₽, TD)	
evening set	15708 Sep 10 02:28	16° ≏ 00'06		evening set	15709 Aug 25 02:56	29° m 32'17	
inferior conj	15708 Sep 16 07:54	10° Ω 41'48	1°28'27	inferior conj	15709 Aug 30 21:31	23° TQ 58'18	
minimum elong	15708 Sep 16 10:01	10° ≏ 36′03	1°27'50	minimum elong	15709 Aug 30 23:50	23° m 51'22	
min. Earth dist.	15708 Sep 19 00:16	7° ≏ 47'56	0.63171 AU	min. Earth dist.	15709 Sep 02 00:36	21° Tp 25'52	0.65193 AU
desc. node	15708 Sep 21 08:31	5° ≙ 31'54		morning rise	15709 Sep 05 19:28	17° m 35'15	
morning rise	15708 Sep 22 15:26	4° ₽ 29'01		desc. node	15709 Sep 08 05:56	15° m 57'57	
direct	15708 Sep 29 07:19	1° £ 59'43	27040140	direct	15709 Sep 12 06:21	14° m 58'12	25000125
morning max el	15708 Oct 13 06:16	9° ₽ 59'02	27°49'49	morning max el	15709 Sep 25 17:09	22° m 51'03	27°08'37
	15708 Oct 28 22:49	0°M 0°. ₹			15709 Oct 02 01:18	0∘ ⊽	
1-	15708 Nov 15 05:01	0° 🗷 1° ⋅ 🗷 1 4/22			15709 Oct 22 05:40	0°M	
asc. node	15708 Nov 15 20:00	1° ҂ 14'23 3° ҂ 15'17		morning set asc. node	15709 Oct 31 06:17 15709 Nov 02 16:48	16°M29'40 21°M17'52	
morning set max. Earth dist.	15708 Nov 16 20:06 15708 Nov 21 20:32	3 x · 13 17 13° x ⁴ 43′02	1.32019 AU	max. Earth dist.	15709 Nov 02 16.48 15709 Nov 04 13:25	25°M03'17	1.33363 AU
max. Earm dist.	13/06 NOV 21 20.32	13 8 43 02	1.32019 AU	max. Earm dist.	15709 Nov 04 13.23 15709 Nov 06 22:47	25 11605 17 0° √ 1	1.55505 AU
superior conj	15708 Nov 24 13:01	19° ∡ ³32'08	1°13'10		13/09 1107 00 22.47	0 🗡	
minimum elong	15708 Nov 24 10:44	19° х 3208	1°13'40	superior conj	15709 Nov 08 16:05	3° ∡ ³37'40	0°52'47
minimum ciong	15708 Nov 29 07:24	0°る	1 13 40	minimum elong	15709 Nov 08 13:50	3° ∡ 37 - 40	0°53'08
evening rise	15708 Dec 01 08:23	4° る 26'22		evening rise	15709 Nov 15 18:53	18° × 52'43	0 33 00
e vening rise	15708 Dec 14 18:45	0°≈		evening rise	15709 Nov 21 04:48	0°る	
desc. node	15708 Dec 18 06:21	5° ≈ 09'06		desc. node	15709 Dec 05 03:21	21° る 41'32	
evening max el	15708 Dec 25 07:41	13° ≈ 26'12	23°46'41	evening max el	15709 Dec 06 18:42	23° る 23'34	22°03'52
retrograde	15709 Jan 07 19:01	20°≈06'55		retrograde	15709 Dec 19 07:53	29° පි 36'01	
evening set	15709 Jan 12 12:08	19° ≈ 18'48		evening set	15709 Dec 22 17:52	29° ප 10'08	
min. Earth dist.	15709 Jan 18 19:02	16°≈16'38	0.55242 AU	inferior conj	15709 Dec 31 07:15	25° ප 18'38	-6°00'10
inferior conj	15709 Jan 20 13:14	15° ≈ 14'15		minimum elong	15709 Dec 31 05:02		5°59'16
minimum elong	15709 Jan 20 19:41	15° ≈ 04'42		min. Earth dist.	15709 Dec 31 00:34	25° る 27'59	0.54463 AU
morning rise	15709 Jan 29 04:50	11° ≈ 19'07		morning rise	15710 Jan 08 17:04	21° る 31'25	
direct	15709 Jan 31 17:55	11° ≈ 02'58		direct	15710 Jan 12 04:11	21° る 04'52	
morning max el	15709 Feb 11 11:56	16° ≈ 14'56	20°15'34	morning max el	15710 Jan 24 10:23	27° ට 00'01	21°48'08
asc. node	15709 Feb 11 18:28	16° ≈ 30'57		-	15710 Jan 27 06:22	0° ≈	
	15709 Feb 21 12:01	0° ∀		asc. node	15710 Jan 29 15:49	2° ≈ 58'49	
morning set	15709 Mar 01 18:30	15° ¥ 55'42			15710 Feb 13 21:07	0°)	
	15709 Mar 08 15:08	0° Y		morning set	15710 Feb 14 04:33	0°) 39′01	
superior conj	15709 Mar 09 10:18	1° Y 36'46	0°55'49	superior conj	15710 Feb 21 08:12	15° ¥ 48'14	1°15'47
minimum elong	15709 Mar 09 12:50	1° Y 49'31	0°55'29	minimum elong	15710 Feb 21 10:37	16°) 00′51	1°15'47
max. Earth dist.	15709 Mar 15 02:37	12° Ƴ 43'57	1.36573 AU	max. Earth dist.	15710 Feb 25 14:44	24°) ₹35'38	1.34562 AU

15712 Jan 14 03:34

0°≈

15711 Feb 05 09:54

0°**)**€

superior conj	15712 Jan 20 21:48	14° ≈ 53'02	1926126	aumorior coni	15713 Jan 04 08:52	29° る 32'45	1°37'47
1 3				superior conj			
minimum elong	15712 Jan 20 22:32	14°≈57'07	1°37'14	minimum elong	15713 Jan 04 08:33	29° る 30'56	1°38'33
max. Earth dist.	15712 Jan 22 12:26	18°≈26'07	1.31780 AU	F 4 F .	15713 Jan 04 13:44	0° ≈	
	15712 Jan 27 22:03	0°) {		max. Earth dist.	15713 Jan 04 19:10	0° ≈ 30'23	1.31144 AU
evening rise	15712 Jan 28 02:52	0°) 24′58		evening rise	15713 Jan 11 05:45	14° ≈ 37'52	
desc. node	15712 Feb 04 21:26	15°) 33'43			15713 Jan 18 22:20	0° ∀	
	15712 Feb 13 10:44	0° Υ		desc. node	15713 Jan 21 18:07	5° ∺ 07'00	
evening max el	15712 Feb 29 22:20	21° Y 01'10	27°35'20		15713 Feb 08 00:58	0° Υ	
retrograde	15712 Mar 14 20:58	28° Y 29′08		evening max el	15713 Feb 11 04:14	3° Y 12'57	27°11'30
evening set	15712 Mar 21 16:50	26° Y 12'32		retrograde	15713 Feb 25 04:54	10° Ƴ 31'06	
min. Earth dist.	15712 Mar 25 10:59	23° Ƴ 11'18	0.62338 AU	evening set	15713 Mar 03 21:18	8° Y 33'48	
inferior conj	15712 Mar 28 10:57	20° Y 19′53	-0°55'02	min. Earth dist.	15713 Mar 07 18:39		0.60105 AU
minimum elong	15712 Mar 28 12:49	20° Y 15′24	0°54'29	inferior conj	15713 Mar 10 23:39	3° Y 09'31	
asc. node	15712 Mar 31 07:26	17° Ƴ 45'07		minimum elong	15713 Mar 11 04:50	2° Y 58'38	2°16'44
morning rise	15712 Apr 04 11:48	15° Ƴ 13'48			15713 Mar 15 03:17	30° Ŗ ₩	
direct	15712 Apr 06 18:17	14° Y 50'13		asc. node	15713 Mar 18 04:51	28°) € 30'40	
morning max el	15712 Apr 13 09:57	18° Ƴ 12'09	17°46'51	morning rise	15713 Mar 18 15:50	28°) €22'38	
	15712 Apr 22 00:08	0°8		direct	15713 Mar 20 16:46	28° ₩ 06'15	
morning set	15712 Apr 29 08:43	12° 8 41'01			15713 Mar 25 22:58	$0^{\circ}\Upsilon$	
desc. node	15712 May 02 23:07	18° 8 59'42		morning max el	15713 Mar 28 00:48	1° Ƴ 45'59	18°01'13
	15712 May 09 08:47	0°II		morning set	15713 Apr 12 14:30	26° Y 15'42	
	,			. 8	15713 Apr 14 15:08	0°8	
superior conj	15712 May 11 02:38	2° ∏ 55'47	-1°02'30	desc. node	15713 Apr 19 19:49	9° 8 28'37	
minimum elong	15712 May 10 20:46	2° I I31'18		dese. Hode	13/13/1pi 17 17.17	y 02 037	
max. Earth dist.	15712 May 17 19:59	13° ∏ 56'49	1.44119 AU	superior conj	15713 Apr 22 19:05	14° 8 45'51	-0°24'11
evening rise	15712 May 17 17:35	26° ∏ 23'19	1.44117 AU	minimum elong	15713 Apr 22 17:01	14° 8 36'45	
evening rise	15712 May 28 02:00	0°95		max. Earth dist.	15713 Apr 30 08:34	27° 8 41'57	1.42312 AU
	15712 May 28 02:00 15712 Jun 17 20:41	0°Ω		max. Earth dist.	-	2/ 3 413/ 0° Ⅱ	1.42312 AU
			2190920		15713 May 01 18:00	6° П 37'57	
evening max el	15712 Jun 25 03:50	8° Ω 34'58	21°08'20	evening rise	15713 May 05 20:20	0° ©	
asc. node	15712 Jun 27 05:36	10° Ω 29'53			15713 May 21 06:40		22025144
retrograde	15712 Jul 03 18:40	13° Ω 34'10		evening max el	15713 Jun 07 21:33	22°528'39	22°25'44
evening set	15712 Jul 08 03:32	11° Ω 48'19		asc. node	15713 Jun 14 02:34	27°516'54	
inferior conj	15712 Jul 13 09:04	5° Ω 37'01	3°09'05	retrograde	15713 Jun 17 16:07	28°5512'06	
minimum elong	15712 Jul 13 09:03	5° Ω 37'06	3°08'20	evening set	15713 Jun 22 12:23	26° © 10'04	
min. Earth dist.	15712 Jul 13 18:36	5° Ω 03'54	0.68847 AU	inferior conj	15713 Jun 27 18:55	19° © 49'34	3°03'18
	15712 Jul 17 20:07	30° ₹ 5		minimum elong	15713 Jun 27 17:59	19° © 52'51	3°02'24
morning rise	15712 Jul 18 14:18	29° © 17'03		min. Earth dist.	15713 Jun 27 15:18	20°502'11	0.69124 AU
direct	15712 Jul 23 17:48	27° 5 03'06		morning rise	15713 Jul 02 23:24	13° © 36'42	
desc. node	15712 Jul 29 22:09	29° 5 31'58		direct	15713 Jul 07 14:38	11° 5 40'37	
	15712 Jul 30 13:02	0 $^{\circ}\Omega$		morning max el	15713 Jul 16 16:57	16° © 58'38	21°43'16
morning max el	15712 Aug 03 02:53	3° £ 13′25	23°10'06	desc. node	15713 Jul 16 19:26	17° 9 04'52	
	15712 Aug 23 14:17	O° m p			15713 Jul 27 09:13	$0^{\circ}\Omega$	
morning set	15712 Sep 06 13:30	21°M 56'51			15713 Aug 16 15:28	0° m y	
max. Earth dist.	15712 Sep 10 19:10	29° Mp 06'27	1.39859 AU	morning set	15713 Aug 17 19:51	1° m 52'14	
	15712 Sep 11 07:35	0∘ ⊽		max. Earth dist.	15713 Aug 23 22:32	11° M)45'18	1.42146 AU
	-				-		
superior conj	15712 Sep 18 14:41	13° ഫ 00'58	-0°40'42	superior conj	15713 Aug 31 13:56	24° mp 41'40	-1°17'06
minimum elong	15712 Sep 18 17:46	13° ≏ 15'09	0°40'04	minimum elong	15713 Aug 31 20:09	25° m 08'43	1°16'24
asc. node	15712 Sep 23 06:52	21° ≏ 45'59		C	15713 Sep 03 14:26	0∘ ত	
	15712 Sep 27 14:00	0°M		asc. node	15713 Sep 10 03:30	11° ≏ 49'00	
evening rise	15712 Sep 28 03:03	1°M02'45		evening rise	15713 Sep 11 12:05	14° ≏ 18'07	
evening max el	15712 Oct 14 03:21	27°M00'29	18°35'23		15713 Sep 20 08:49	0° M	
e venning man er	15712 Oct 18 00:52	0° √	10 30 23	evening max el	15713 Sep 27 12:33	9° ™ 42'04	18°08'42
retrograde	15712 Oct 22 04:52	1° ₹ 05'18		retrograde	15713 Oct 04 14:03	13°M 18'57	10 00 12
evening set	15712 Oct 24 03:27	0° ₹ 51'54		evening set	15713 Oct 04 14:03	12°M58'30	
desc. node	15712 Oct 25 18:55	0° ₹ 20'53		desc. node	15713 Oct 00 16:41 15713 Oct 12 16:13	9°M18'20	
desc. node	15712 Oct 26 14:05	30°RM		inferior conj	15713 Oct 12 10:13 15713 Oct 13 23:58	8°M09'11	0°25'12
inforior coni			2901120	,			
inferior conj	15712 Nov 01 02:28	26°M24'03		minimum elong	15713 Oct 13 23:06	8°M11'06	
minimum elong	15712 Oct 31 21:34	26°M33'21	1°59'01	min. Earth dist.	15713 Oct 17 05:44	5°M17'57	0.59596 AU
min. Earth dist.	15712 Nov 04 06:26	24°M00'20	0.57416 AU	morning rise	15713 Oct 21 00:13	2°M31'48	
morning rise	15712 Nov 08 12:21	21°M20'34		direct	15713 Oct 27 13:16	0°M32'21	2704425
direct	15712 Nov 14 15:27	19°M46'52	0.0050150	morning max el	15713 Nov 10 19:49	8°M17'49	27~44'35
morning max el	15712 Nov 28 21:13	27°M14'48	26°50'52		15713 Nov 27 09:00	0° ∕ 7	
_	15712 Dec 01 13:15	0°⊀ ⁷		asc. node	15713 Dec 07 04:28	17° ∡ 121′23	
asc. node	15712 Dec 20 07:26	27° ∡ *54'57		morning set	15713 Dec 12 20:05	28° ∡ ¹48'56	
	15712 Dec 21 10:02	0° ろ			15713 Dec 13 09:29	0° ろ	
morning set	15712 Dec 28 13:56	14° る 32'57		max. Earth dist.	15713 Dec 19 02:54	12° る 32'57	1.31047 AU

	15712 D 10 20 14	1.40-7.00152	1022150		15714 D 04 05 50	200 72007	1022100
superior conj	15713 Dec 19 20:14	14°る09'52		superior conj	15714 Dec 04 05:58	28° ∡ ³38'27	
minimum elong	15713 Dec 19 18:56	14°る02'34	1°33'43	minimum elong	15714 Dec 04 03:56	28° ∡ ¹27'11	1°22'45
evening rise	15713 Dec 26 13:11	29° る 00'38			15714 Dec 04 20:42	0° ろ	
	15713 Dec 27 00:14	0° ≈		evening rise	15714 Dec 10 23:13	13° る 27'48	
desc. node	15714 Jan 08 14:52	24° ≈ 08′08			15714 Dec 19 02:54	0° ≈	
	15714 Jan 12 08:00	0° ℋ		desc. node	15714 Dec 26 11:43	12° ≈ 24'34	
evening max el	15714 Jan 24 02:43	14°) €32'46	26°12'44	evening max el	15715 Jan 05 16:37	25° ≈ 00'46	24°44'50
retrograde	15714 Feb 07 01:54	21°) 38′23			15715 Jan 12 09:14	0° ∀	
evening set	15714 Feb 13 07:25	20° ∺ 06'09		retrograde	15715 Jan 19 10:17	1° ¥ 52'33	
min. Earth dist.	15714 Feb 17 15:59	17° ¥ 28'38	0.57925 AU	evening set	15715 Jan 24 19:37	0°) 48′14	
inferior conj	15714 Feb 20 17:40	15° ¥ 15'36	-3°48'31	•	15715 Jan 26 15:36	30° R ≈	
minimum elong	15714 Feb 21 02:08	15° ¥ 00'16	3°45'24	min. Earth dist.	15715 Jan 30 04:32	28° ≈ 00'43	0.56055 AU
morning rise	15714 Mar 01 00:01	10° ¥ 50'11		inferior conj	15715 Feb 01 14:30	26° ≈ 29'33	-5°09'35
direct	15714 Mar 02 23:31	10°) 37'16		minimum elong	15715 Feb 01 23:26	26° ≈ 15'29	
asc. node	15714 Mar 05 02:14	10° ¥ 52'42		morning rise	15715 Feb 10 05:31	22°≈25'18	5 07 05
morning max el	15714 Mar 11 09:04	14°) 45'27	18°35'44	direct	15715 Feb 12 10:40	22°≈11'53	
morning max cr	15714 Mar 21 20:28	0°Υ	10 33 44	asc. node	15715 Feb 19 23:36	24°≈59'51	
. ,		10° Υ 23'23					10022122
morning set	15714 Mar 27 08:47	10° 1 23′23		morning max el	15715 Feb 22 06:32	26°≈58'14	19°32'33
					15715 Feb 25 00:28	0°) {	
superior conj	15714 Apr 05 07:58	27° Y ′30′52	0°11'17	morning set	15715 Mar 11 11:29	24°) €51'32	
minimum elong	15714 Apr 05 08:43	27° Y ′34′23	0°10'50		15715 Mar 14 00:44	0° Υ	
behind sun begin	15714 Apr 05 03:32	27° Y °10′12					
behind sun end	15714 Apr 05 13:55	27° Y 58'32		superior conj	15715 Mar 19 12:50	10° Ƴ 58′25	0°41'21
desc. node	15714 Apr 06 16:28	0° 8 01'05		minimum elong	15715 Mar 19 15:03	11° Y ′09'17	0°40'54
	15714 Apr 06 16:14	0°8		desc. node	15715 Mar 24 13:05	20° Ƴ 33'15	
max. Earth dist.	15714 Apr 12 17:02	10° 8 47'05	1.40145 AU	max. Earth dist.	15715 Mar 25 23:19	23° Y 11'28	1.37846 AU
evening rise	15714 Apr 16 19:46	17° 8 47'25		evening rise	15715 Mar 29 15:52	29° Ƴ 49'14	
C	15714 Apr 24 09:20	$\Pi^{\circ}0$		C	15715 Mar 29 18:18	0°8	
	15714 May 15 18:02	0° ©			15715 Apr 17 16:24	0°II	
evening max el	15714 May 21 12:07	6°922'58	23°47'10	evening max el	15715 May 04 01:31	20° Ⅱ 17'22	25°06'03
asc. node	15714 May 31 23:36	12° © 47'14	23 17 10	retrograde	15715 May 16 01:39	27° I 16'25	25 00 05
retrograde	15714 Jun 01 10:46	12°548'10		asc. node	15715 May 18 20:43	26° I I43'43	
evening set	15714 Jun 06 18:44	10°932'10		evening set	15715 May 18 20:45	24° II 49'59	
•			0.60000 ATT	=	•		0.60211.411
min. Earth dist.	15714 Jun 11 11:47	5°501'39	0.68909 AU	min. Earth dist.	15715 May 26 06:01	19° Ⅱ 56'23	0.68211 AU
inferior conj	15714 Jun 12 04:24	4°504'50	2°47'07	inferior conj	15715 May 27 11:37	18° Ⅱ 19'16	2°20'22
minimum elong	15714 Jun 12 02:42	4° © 10'37	2°45'59	minimum elong	15715 May 27 09:30	18° Ⅲ 26′15	2°19'02
	15714 Jun 15 08:54	30°Ŗ Ⅱ		morning rise	15715 Jun 01 22:21	12° Ⅲ 24'31	
morning rise	15714 Jun 17 10:41	28° Ⅱ 00′28		direct	15715 Jun 05 13:55	11° Ⅱ 08′05	
direct	15714 Jun 21 13:48	26° Ⅲ 24'12		morning max el	15715 Jun 12 16:05	15° Ⅱ 01'13	19°21'17
	15714 Jun 28 13:57	0		desc. node	15715 Jun 20 13:45	24° ∏ 42'09	
morning max el	15714 Jun 29 12:50	0°954'25	20°25'31		15715 Jun 24 06:39	0 \circ \odot	
desc. node	15714 Jul 03 16:38	5° © 33'03		greatest brilliancy	15715 Jun 25 08:04	1° © 33'24	-0.7m
	15714 Jul 21 01:10	$0^{\circ}\Omega$		morning set	15715 Jul 07 09:57	19° © 51'37	
morning set	15714 Jul 28 05:51	10° Ω 57'12			15715 Jul 13 23:33	$0^{\circ}\Omega$	
max. Earth dist.	15714 Aug 06 08:56	25° Ω 17'04	1.44041 AU	max. Earth dist.	15715 Jul 20 00:52	9° Ω 27'03	1.45346 AU
	15714 Aug 09 07:09	0° ™					
				superior conj	15715 Jul 23 15:57	15° Ω 10'39	-2°10'07
superior conj	15714 Aug 12 14:22	5° m 24'02	-1°49'18	minimum elong	15715 Jul 23 20:39	15° Ω 29'17	
minimum elong	15714 Aug 12 22:09	5° m 56'08	1°49'00	minimum ciong	15715 Aug 01 21:02	0° m)	2 10 30
evening rise	15714 Aug 25 05:13	26° m 51'32	1 4700	evening rise	15715 Aug 07 21:02 15715 Aug 07 01:10	8° Mg 30'10	
evening rise	-	0° ⊽		•	_		
1	15714 Aug 27 00:34			asc. node	15715 Aug 14 20:46	21° Tp 21'09	
asc. node	15714 Aug 28 00:07	1° Ω 42'12	10001125		15715 Aug 20 11:50	0∘ ⊽	10012150
evening max el	15714 Sep 11 02:20	22° ₽ 53'33	18°01'35	evening max el	15715 Aug 25 17:06	6° ≏ 26'10	18°12'58
retrograde	15714 Sep 17 14:34	26° ≏ 16'18		retrograde	15715 Sep 01 01:48	9° ≙ 48'05	
evening set	15714 Sep 20 03:03	25° ≏ 45'10		evening set	15715 Sep 03 22:55	9° ჲ 03'16	
inferior conj	15714 Sep 26 16:15	20° ≏ 36'27	0°52'44	inferior conj	15715 Sep 09 23:17	3° ჲ 37'55	1°50'45
minimum elong	15714 Sep 26 17:44	20° ≏ 32'40	0°52'25	minimum elong	15715 Sep 10 01:36	3° ჲ 31'19	1°50'01
min. Earth dist.	15714 Sep 29 14:54	17° ≏ 38'03	0.61892 AU	min. Earth dist.	15715 Sep 12 10:10	0° ჲ 51'19	0.64064 AU
desc. node	15714 Sep 29 13:36	17° ≏ 41'12			15715 Sep 13 05:15	30°R, Mp	
morning rise	15714 Oct 03 05:49	14° ≏ 33'33		morning rise	15715 Sep 16 02:32	27° m 19'26	
direct	15714 Oct 09 22:08	12° ≙ 13'15		desc. node	15715 Sep 16 11:01	27° m 03'16	
morning max el	15714 Oct 24 01:32	20° ♀ 10'03	27°58'53	direct	15715 Sep 22 16:39	24° m) 45'51	
5	15714 Nov 01 12:39	0°M			15715 Oct 03 13:01	0∘ ⊽	
	15714 Nov 20 08:42	0°×7		morning max el	15715 Oct 06 11:33	ა – 2° ჲ 44'34	27°35'58
asc. node	15714 Nov 24 01:24	7° ∡ ¹06'32			15715 Oct 26 21:12	0°M.	
morning set	15714 Nov 26 20:28	12° х 45'19		morning set	15715 Nov 10 12:41	26°M17'07	
max. Earth dist.	15714 Nov 20 20.28 15714 Dec 02 07:43	24° × 23'56	1.31504 AU	asc. node	15715 Nov 10 12.41 15715 Nov 10 22:16	20 IL1707 27°ML04'51	
man. Darm Wist.	13/17 DCC 02 07.43	47 × 43 30	1.51507 AU	asc. nouc	13/13/10/ 10 22.10	21 HVV+31	

Faul die	15715 Nov 12 09:00	0° ₰ 5° ₰ 55'48	1 22525 ATT	asc. node	15716 Oct 27 19:03	17°M11'11	1 24001 ATT
max. Earth dist.	15715 Nov 15 05:45		1.32525 AU	max. Earth dist.	15716 Oct 27 18:14	17°M07'06	1.34091 AU
superior conj	15715 Nov 18 12:08	12° ⋌ '53'59 –	1°05'15	superior conj	15716 Nov 01 12:22	26°M50'23	0°42'19
minimum elong	15715 Nov 18 09:47	12° ∡ ′41′17	1°05'41	minimum elong	15716 Nov 01 10:21	26°M39'49	0°42'38
evening rise	15715 Nov 25 10:06	27° х 55'30			15716 Nov 03 00:30	0° ✓ 10000	
desc. node	15715 Nov 26 09:24	0°る 29°る40'40		evening rise	15716 Nov 08 19:54	12°₹19'08 0°♂	
desc. node	15715 Dec 13 08:39 15715 Dec 13 14:46	29 3 40 40 0° ≈		evening max el	15716 Nov 17 19:45 15716 Nov 28 16:21	0 る 15°る03'40	21°23'09
evening max el	15715 Dec 18 02:01	0 ≈ 4°≈58'26	23°02'15	desc. node	15716 Nov 29 05:42	15°る35'48	21 23 09
retrograde	15715 Dec 31 05:53	11°≈29'30	23 02 13	retrograde	15716 Dec 10 16:25	20°る59'58	
evening set	15716 Jan 04 09:48	10°≈51'51		evening set	15716 Dec 13 13:48	20° ප් 40'45	
min. Earth dist.	15716 Jan 11 11:51	7° ≈ 34'44	0.54800 AU	inferior conj	15716 Dec 22 07:21	16° පි 50'06	-5°48'46
inferior conj	15716 Jan 12 16:03	6° ≈ 54'23		minimum elong	15716 Dec 22 01:21	16° පි 58'32	
minimum elong	15716 Jan 12 19:16	6° ≈ 49'46	5°56'36	min. Earth dist.	15716 Dec 22 17:25	16° ප 35'57	0.54403 AU
morning rise	15716 Jan 21 06:06	3° ≈ 04'32		morning rise	15716 Dec 30 13:19	13° る 00'29	
direct	15716 Jan 24 03:18	2° ≈ 45′02		direct	15717 Jan 03 11:12	12° る 27'19	
morning max el	15716 Feb 04 13:44	8° ≈ 15'43	20°52'36	morning max el	15717 Jan 16 06:40	18° る 40'24	22°32'54
asc. node	15716 Feb 06 20:58	10° ≈ 41'24		asc. node	15717 Jan 23 18:18	27° る 39'30	
	15716 Feb 19 02:18	0° ∀			15717 Jan 25 08:02	0° ≈	
morning set	15716 Feb 23 19:32	9° ∺ 31′00		morning set	15717 Feb 07 06:35	24° ≈ 15′17	
					15717 Feb 09 23:01	0° ∀	
superior conj	15716 Mar 02 05:31	24° ¥ 56'36	1°05'05				
minimum elong	15716 Mar 02 08:05	25°) €09'45	1°04'53	superior conj	15717 Feb 14 06:39	9° ¥ 16′07	
To all III	15716 Mar 04 17:22	0°Υ 5° 00 °5'22	1.25660 444	minimum elong	15717 Feb 14 08:49	9° ¥ 27'38	1°22'27
max. Earth dist.	15716 Mar 07 07:37	5° Υ 07'22 11° Υ 01'13	1.35668 AU	max. Earth dist.	15717 Feb 17 22:30	16° ¥ 56'36	1.33810 AU
desc. node	15716 Mar 10 09:41 15716 Mar 11 05:47	11°° Y °01′13		evening rise	15717 Feb 22 10:03 15717 Feb 24 13:01	25° ¥ 55'33 0° Ƴ	
evening rise	15716 Mar 21 06:01	0° 8		desc. node	15717 Feb 24 15.01 15717 Feb 25 06:18	0 1 1° Υ 21'12	
	15716 Apr 11 17:14	0°II		desc. node	15717 Mar 14 15:47	0°8	
evening max el	15716 Apr 15 15:03	4° Ⅱ 07'35	26°15'07	evening max el	15717 Mar 29 04:51	17° 8 46'16	27°06'44
retrograde	15716 Apr 28 11:42	11° Ⅲ 28'45	20 13 07	retrograde	15717 Apr 11 15:53	25° 8 16'53	27 00 11
evening set	15716 May 04 17:20	8°II56'50		evening set	15717 Apr 18 05:48	22° 8 45'35	
asc. node	15716 May 04 17:56	8° Ⅱ 55'36		asc. node	15717 Apr 21 15:13	19° 8 34'18	
min. Earth dist.	15716 May 08 19:58	4° Ⅲ 38'43	0.67054 AU	min. Earth dist.	15717 Apr 22 03:34	19° 8 00'37	0.65486 AU
inferior conj	15716 May 10 14:31	2° Ⅲ 27'39	1°42'16	inferior conj	15717 Apr 24 10:41	16° 8 24'28	0°51'46
minimum elong	15716 May 10 12:26	2° Ⅲ 34′05	1°40'54	minimum elong	15717 Apr 24 09:22	16° 8 28'15	0°50'43
	15716 May 12 16:04	30°₽ ႘		morning rise	15717 Apr 30 14:32	10° 8 53'07	
morning rise	15716 May 16 08:24	26° 8 43'43		direct	15717 May 03 09:48	10° 8 10'53	
direct	15716 May 19 13:17	25° 8 45'40		morning max el	15717 May 09 17:14	13° 8 27'39	18°01'16
morning max el	15716 May 26 02:09	29° 8 14'23	18°32'51		15717 May 21 15:10	0°II	
	15716 May 26 20:14	0°II		desc. node	15717 May 24 07:45	4° Ⅱ 20'55	
desc. node	15716 Jun 06 10:48	14° Ⅱ 20'46		morning set	15717 May 28 00:49	10° Ⅱ 23'50	
morning set	15716 Jun 16 04:11 15716 Jun 16 12:00	29° Ⅱ 29'19 0° ©			15717 Jun 09 04:58	0ංම	
	13/16 Juli 16 12.00	0 39		superior conj	15717 Jun 11 14:14	3°946'13	1055120
superior conj	15716 Jul 02 02:36	24°524'04	-2°12'46	minimum elong	15717 Jun 11 14:14	3°913'33	
minimum elong	15716 Jul 01 23:44	24°9512'55		max. Earth dist.	15717 Jun 14 16:15	8°936'39	1.45804 AU
max. Earth dist.	15716 Jul 01 19:56	23°958'04	1.45949 AU	evening rise	15717 Jun 27 16:50	28°9547'07	
	15716 Jul 05 16:43	$0^{\circ}\Omega$		<i>8</i>	15717 Jun 28 11:48	$0^{\circ}\Omega$	
evening rise	15716 Jul 17 20:09	19° Ω 05'07		greatest brilliancy	15717 Jul 10 18:43	18° Ω 38'09	-0.7m
_	15716 Jul 24 18:00	0° m)		asc. node	15717 Jul 18 14:12	29° Ω 30′05	
greatest brilliancy	15716 Jul 25 20:26	1°Mp43'32	-0.8m		15717 Jul 18 23:45	0° m)	
asc. node	15716 Jul 31 17:27	10° m 39'32		evening max el	15717 Jul 22 13:56	4° ™ 02'57	19°27'28
evening max el	15716 Aug 08 05:45	20°M/11'18	18°41'56	retrograde	15717 Jul 29 17:21	8° Mp 01'32	
retrograde	15716 Aug 14 19:44	23° m 45'21		evening set	15717 Aug 02 09:34	6° Mp 43'13	
evening set	15716 Aug 18 02:05	22° m/44'29		inferior conj	15717 Aug 07 18:39	0° m/50'07	2°55'40
inferior conj	15716 Aug 23 17:10	17° Mp 04'32	2°30'51	minimum elong	15717 Aug 07 20:06	0° m/45'17	2°54'58
minimum elong	15716 Aug 23 19:19	16° Mp 57'50	2°30'05	min P d P	15717 Aug 08 09:48	30°R Ω	0 (7420 411
min. Earth dist.	15716 Aug 25 14:20	14° Mp 44'51	0.65949 AU	min. Earth dist.	15717 Aug 09 01:41	29° Ω 07'47	0.67439 AU
morning rise desc. node	15716 Aug 29 11:30	10°Mp39'08		morning rise direct	15717 Aug 13 06:05	24° Ω 23'58 21° Ω 50'16	
desc. node direct	15716 Sep 02 08:29 15716 Sep 04 19:05	8° Mp 23'49 8° Mp 01'09		desc. node	15717 Aug 19 04:04 15717 Aug 20 05:56	$21^{\circ}0.50^{\circ}16$ $21^{\circ}0.54^{\circ}48$	
morning max el	15716 Sep 04 19.05	15° Mp 48'03	26°42'43	morning max el	15717 Aug 20 05:50 15717 Aug 31 09:59	21° Ω 09'34	25°28'03
morning max or	15716 Sep 29 16:30	0∘ ⊽	20 12 73	morning max or	15717 Aug 31 05:35 15717 Sep 01 05:35	0° m)	25 20 05
	15716 Oct 18 16:42	0° m .			15717 Sep 01 05:55	0∘ ⊽	
morning set	15716 Oct 23 17:45	9°M17'13		morning set	15717 Oct 06 07:57	21° ≏ 36'44	
<i>5</i>				5			

		_				_	
max. Earth dist.	15717 Oct 09 21:35		1.36135 AU	morning rise	15718 Jul 28 07:55	8° Ω 26'57	
_	15717 Oct 10 20:38	0° ™		direct	15718 Aug 02 18:24	6° Ω 04'28	
asc. node	15717 Oct 14 15:46	7°M21'13		desc. node	15718 Aug 07 03:19	7° Ω 19'13	
				morning max el	15718 Aug 13 20:49	12° Ω 42'24	24°01'39
superior conj	15717 Oct 16 03:49	10° ™ 20'17	0°13'39		15718 Aug 27 19:38	0° m ∕	
minimum elong	15717 Oct 16 02:59	10° ™ 16′07	0°13'59		15718 Sep 16 07:09	0∘ ⊽	
behind sun begin	15717 Oct 15 23:49	10° M ₀00'17		morning set	15718 Sep 18 03:10	3° ჲ 06'41	
behind sun end	15717 Oct 16 06:09	10° M ⋅31'57		max. Earth dist.	15718 Sep 21 20:33	9° ≙ 35'56	1.38478 AU
evening rise	15717 Oct 24 02:32	26°M33'10					
	15717 Oct 25 19:11	0° ∡ 7		superior conj	15718 Sep 29 07:01	23° ≏ 15'35	-0°19'53
evening max el	15717 Nov 10 19:25	25° ∡ ′47′10	20°00'39	minimum elong	15718 Sep 29 08:23	23° ≏ 22'10	0°19'23
desc. node	15717 Nov 16 02:51	29° х 44'41		asc. node	15718 Oct 01 12:26	27° ≗ 31'33	
	15717 Nov 16 16:09	0°₹			15718 Oct 02 19:01	0° M	
retrograde	15717 Nov 21 05:08	0° ಕ 58'21		evening rise	15718 Oct 08 03:28	10°MJ31'42	
evening set	15717 Nov 23 07:28	0°る46'42			15718 Oct 18 19:47	0° ∡ 7	
•	15717 Nov 26 00:36	30°₽ ⋌ ¹		evening max el	15718 Oct 24 12:44	7° ∡ ¹20'40	19°00'02
inferior conj	15717 Dec 02 02:33	26° ∡ ¹48'16	-4°41'55	retrograde	15718 Nov 02 08:42	11° ∡ ¹47'36	
minimum elong	15717 Dec 01 16:29	27° х °03′29	4°38'19	desc. node	15718 Nov 03 00:05	11° ∡ 746'16	
min. Earth dist.	15717 Dec 04 00:02	25° х 39′29	0.54952 AU	evening set	15718 Nov 04 05:53	11° ∡ 736'16	
morning rise	15717 Dec 10 00:28	22° × ⁷ 40'11	0.0.002110	inferior conj	15718 Nov 12 14:15	7° ∡ 720'01	-3°02'08
direct	15717 Dec 14 23:06	21°×7'46'54		minimum elong	15718 Nov 12 06:46	7° ∡ ³33'03	
morning max el	15717 Dec 28 15:35	28° ₹ 33'55	24°22'50	min. Earth dist.	15718 Nov 15 11:07	5° ₹ 20'41	0.56337 AU
morning max ci	15717 Dec 28 13:35 15717 Dec 30 02:16	0°る	24 22 30	morning rise	15718 Nov 20 04:54	2° × ⁷ 38'07	0.30337 AU
aga mada		15° る 35'48		direct		1° x ⁷ 20'16	
asc. node	15718 Jan 10 15:34 15718 Jan 18 11:29	0°≈			15718 Nov 25 23:06	8° × ⁷ 34'24	26°04'01
. ,				morning max el	15718 Dec 10 02:17		20 04 01
morning set	15718 Jan 22 18:34	8° ≈ 57'52		,	15718 Dec 26 02:08	0°る	
	15510 1 20 12 22	222 4011	1022110	asc. node	15718 Dec 28 12:44	4°る15'49	
superior conj	15718 Jan 29 13:22	23°≈48'11	1°33'10	morning set	15719 Jan 07 05:43	23° る 34'04	
minimum elong	15718 Jan 29 14:41	23° ≈ 55′26	1°33'39		15719 Jan 10 04:20	0° ≈	
max. Earth dist.	15718 Jan 31 21:13	28°≈51'38	1.32386 AU				
	15718 Feb 01 09:56	0° ∀		superior conj	15719 Jan 13 23:26	8° ≈ 26'44	
evening rise	15718 Feb 06 01:13	9°) 41′28		minimum elong	15719 Jan 13 23:43	8° ≈ 28′20	1°38'33
desc. node	15718 Feb 12 02:55	21° ∺ 27'44		max. Earth dist.	15719 Jan 15 01:58	10° ≈ 54'16	1.31451 AU
	15718 Feb 16 22:20	0° Y		evening rise	15719 Jan 21 00:31	23° ≈ 46′03	
	15718 Mar 10 16:40	9° 8			15719 Jan 24 01:31	0° ∀	
evening max el	15718 Mar 11 17:25	1° 8 00'52	27°33'37	desc. node	15719 Jan 29 23:34	11° ∺ 15′12	
retrograde	15718 Mar 25 12:55	8° 8 31'01			15719 Feb 10 16:05	0 ° Υ	
evening set	15718 Apr 01 08:02	6° ႘ 07'05		evening max el	15719 Feb 22 02:23	13° Y 38'16	27°29'24
min. Earth dist.	15718 Apr 05 02:49	2° 8 51'33	0.63567 AU	retrograde	15719 Mar 08 01:53	21° Y '01'55	
inferior conj	15718 Apr 07 21:19	0° 8 01'55	-0°12'07	evening set	15719 Mar 14 21:19	18° Ƴ 52'34	
minimum elong	15718 Apr 07 21:42	0° ප 00'55	0°12'19	min. Earth dist.	15719 Mar 18 16:06	16° Ƴ 00'17	0.61402 AU
transit middle	15718 Apr 07 21:42	0° 8 00'55	0°12'19	inferior conj	15719 Mar 21 19:03	13° Y 11'26	-1°29'20
transit begin	15718 Apr 07 19:41	0° 8 06'05		minimum elong	15719 Mar 21 22:14	13° Y ′04'12	1°28'08
transit end	15718 Apr 07 23:43	29° Y ′55'46		asc. node	15719 Mar 26 09:58	9° Y ′29'34	
	15718 Apr 07 22:04	30° ₹ Υ		morning rise	15719 Mar 29 02:22	8° Y 13'16	
asc. node	15718 Apr 08 12:34	29° Y ′23'04		direct	15719 Mar 31 06:18	7° Y ′53'04	
morning rise	15718 Apr 14 13:50	24° Y ′45'37		morning max el	15719 Apr 07 03:36	11° Y ′20'49	17°50'40
direct	15718 Apr 17 00:39	24° Y °16'07			15719 Apr 19 15:37	0°8	
morning max el	15718 Apr 23 10:45	27° Υ 32'40	17°47'01	morning set	15719 Apr 22 20:11	5° 8 42'07	
morning man vi	15718 Apr 25 16:24	0°8	1, 1, 01	desc. node	15719 Apr 28 01:18	15° 8 00'49	
morning set	15718 May 09 23:56	22° 8 33'37		dose. Hode	20,15,11pt 20 01.10	10 000 49	
desc. node	15718 May 11 04:35	24° 8 35'53		superior conj	15719 May 03 21:16	25° 8 09'33	-0°46'07
desc. flode	15718 May 14 08:51	0°П		minimum elong	15719 May 03 17:03	24° 8 51'36	
	13/16 May 14 06.31	υщ		minimum clong	-	0°Ⅱ	0 4007
	15710 M 22 10 07	1201755140	1024100	T d F d	15719 May 06 17:57		1 42405 ATT
superior conj	15718 May 22 18:07	13° Ⅱ 55'40		max. Earth dist.	15719 May 11 02:55	7° Ⅱ 13'13	1.43405 AU
minimum elong	15718 May 22 10:20	13° Ⅱ 23'57		evening rise	15719 May 17 20:38	17° ∏ 57'41	
max. Earth dist.	15718 May 28 11:26		1.44924 AU		15719 May 25 17:30	0° ©	
	15718 Jun 01 20:25	0.0210140			15719 Jun 16 18:53	0° N	21040/22
evening rise	15718 Jun 07 03:29	8°9510'48		evening max el	15719 Jun 18 12:35	1° Ω 49'19	21°40'23
_	15718 Jun 21 18:16	0°N		asc. node	15719 Jun 22 07:55	5° Ω 06'08	
asc. node	15718 Jul 05 11:01	17° Ω 43'20		retrograde	15719 Jun 27 14:52	7°Ω07'21	
evening max el	15718 Jul 05 16:15	17° Ω 56'30	20°27'56	evening set	15719 Jul 02 04:37	5° Ω 14'10	
retrograde	15718 Jul 13 16:21	22° Ω 31′01			15719 Jul 06 16:36	30° ₹જી	
evening set	15718 Jul 17 19:03	20° Ω 54'51		inferior conj	15719 Jul 07 10:16	28° © 58'32	
inferior conj	15718 Jul 23 01:06	14° Ω 49'46	3°07'30	minimum elong	15719 Jul 07 09:50	29° © 00'02	
minimum elong	15718 Jul 23 01:38	14° Ω 47'55	3°06'49	min. Earth dist.	15719 Jul 07 14:04	28° © 45'15	0.69020 AU
min. Earth dist.	15718 Jul 23 18:16	13° Ω 50'49	0.68470 AU	morning rise	15719 Jul 12 14:53	22° 5 641'31	

direct	15719 Jul 17 13:04	20°935'07		min. Earth dist.	15720 Jun 20 11:01	13° © 45'02	0.69084 AU
desc. node	15719 Jul 25 00:38	20 \$33 07 24°\$11'38		morning rise	15720 Jun 26 01:07	7°503'36	0.09064 AU
morning max el	15719 Jul 27 09:02	24 S11 38 26°S23'11	22°32'33	direct	15720 Jun 30 11:02	5°915'58	
morning max er	15719 Jul 27 09:02 15719 Jul 30 16:53	20 3 23 11 0° Ω	22 32 33			10°©13'18	21°08'48
				morning max el	15720 Jul 09 01:23		21 06 46
	15719 Aug 21 08:05	0° Mp		desc. node	15720 Jul 10 21:51	12°9510'17	
morning set	15719 Aug 29 23:26	13° Mp 37'32	1 40000 477		15720 Jul 24 11:01	0°N	
max. Earth dist.	15719 Sep 03 21:00	21° m/44'18	1.40862 AU	morning set	15720 Aug 08 20:09	23° Ω 09'02	
	15719 Sep 08 16:15	0∘ ⊽		and the	15720 Aug 13 04:08	0° m)	
				max. Earth dist.	15720 Aug 16 02:51	4° Mp 45'02	1.43008 AU
superior conj	15719 Sep 11 17:39	5° £ 25'43					
minimum elong	15719 Sep 11 22:06	5° Ω 45'42	0°55'34	superior conj	15720 Aug 23 07:31	16° Mp 42'06	
asc. node	15719 Sep 18 09:02	17° △ 38'03		minimum elong	15720 Aug 23 14:46	17° m 12'53	1°31'04
evening rise	15719 Sep 21 19:27	24° £ 05'38			15720 Aug 30 23:10	0∘ 亚	
	15719 Sep 24 23:07	0°M		evening rise	15720 Sep 03 22:22	7° ≏ 04'48	
evening max el	15719 Oct 07 17:18	19°MJ39'41	18°21'28	asc. node	15720 Sep 04 05:39	7° ≏ 37'26	
retrograde	15719 Oct 15 07:30	23°M31'25			15720 Sep 17 21:45	0°M	10000100
evening set	15719 Oct 17 08:06	23°M15'36		evening max el	15720 Sep 20 04:57	2° ™ 35'24	18°03'23
desc. node	15719 Oct 20 21:23	21°M39'52		retrograde	15720 Sep 26 23:40	6°M04'38	
inferior conj	15719 Oct 24 23:35	18°MJ38'22		evening set	15720 Sep 29 07:25	5°M40'10	
minimum elong	15719 Oct 24 20:34	18°M44'30	1°17'03	inferior conj	15720 Oct 06 05:34	0°M42'36	0°10'18
min. Earth dist.	15719 Oct 28 05:36	16°M00'29	0.58310 AU	minimum elong	15720 Oct 06 05:55	0° M 41'48	0°10'31
morning rise	15719 Nov 01 05:31	13°ML19'17		transit middle	15720 Oct 06 05:55	0°M41'48	0°10'31
direct	15719 Nov 07 13:26	11°M34'27		transit begin	15720 Oct 06 03:24	0° IL 47'42	
morning max el	15719 Nov 21 20:28		27°18'24	transit end	15720 Oct 06 08:25	0°M35'53	
	15719 Dec 01 00:58	0° ∡ 7		desc. node	15720 Oct 06 18:44	0°M11'28	
asc. node	15719 Dec 15 09:48	23° ∡ 27'39			15720 Oct 06 23:34	30° ₹ Ω	0.60555.444
. ,	15719 Dec 18 18:02	0°る		min. Earth dist.	15720 Oct 09 09:15	27° Ω 45'29	0.60575 AU
morning set	15719 Dec 22 14:14	7° る 58'51		morning rise	15720 Oct 13 01:17	24° ♀ 52'58	
	15710 D 20 10-52	220=205154	1027120	direct	15720 Oct 19 16:33	22° £ 43'29 0° I L	
superior conj minimum elong	15719 Dec 29 10:52 15719 Dec 29 10:06	23°る05'54 23°る01'39	1°36'28 1°37'15	morning max el	15720 Nov 02 07:46 15720 Nov 02 22:25	0°M35'35	27055122
max. Earth dist.	15719 Dec 29 10:00 15719 Dec 29 09:35	23° る 58'47	1.31034 AU	morning max er	15720 Nov 02 22.23 15720 Nov 24 04:57	0° √ 1	21 33 22
max. Earth dist.	15719 Dec 29 09:33 15720 Jan 01 13:01	0°≈	1.51054 AO	asc. node	15720 Nov 24 04:37 15720 Dec 01 06:46	13° ∡ 02'48	
evening rise	15720 Jan 05 05:34	0 ~ 8°≈03'26		morning set	15720 Dec 05 18:13	22° × ⁷ 07'21	
evening rise	15720 Jan 16 11:57	0° ∺		morning set	15720 Dec 09 10:30	0°る	
desc. node	15720 Jan 16 20:18	0° ₩ 36'07		max. Earth dist.	15720 Dec 11 16:21	⁰ ਰ 4°ਰ56'37	1.31169 AU
evening max el	15720 Feb 04 05:11	25°) 27'49	26°50'31	max. Earth dist.	13/20 Bec 11 10.21	. 30037	1.51107110
evening mun er	15720 Feb 09 22:45	0°Υ	20 0001	superior conj	15720 Dec 12 21:48	7° る 40'22	1°29'07
retrograde	15720 Feb 18 05:38	2° Υ 41'33		minimum elong	15720 Dec 12 20:09	7° る 31'09	1°29'49
evening set	15720 Feb 24 18:30	0° Ƴ 53'57		evening rise	15720 Dec 19 14:20	22° る 28'40	
<i>3</i> - 1 - 1	15720 Feb 26 07:13	30° R ₩		8	15720 Dec 23 03:55	0° ≈	
min. Earth dist.	15720 Feb 28 19:08	28°) 14′52	0.59153 AU	desc. node	15721 Jan 02 17:07	19° ≈ 20'05	
inferior conj	15720 Mar 03 00:13	25°) 43′38			15721 Jan 10 04:26	0°) €	
minimum elong	15720 Mar 03 06:55	25° ₩ 30'25	2°54'08	evening max el	15721 Jan 15 23:53	6° ¥ 24'37	25°38'16
morning rise	15720 Mar 10 22:51	21° ₭ 06'08		retrograde	15721 Jan 29 21:53	13° ¥ 25′21	
asc. node	15720 Mar 12 07:22	20°) 53′12		evening set	15721 Feb 04 19:45	12° ¥ 05'00	
direct	15720 Mar 12 22:27	20°) 51'44		min. Earth dist.	15721 Feb 09 12:46	9° ¥ 25'10	0.57066 AU
morning max el	15720 Mar 20 16:16	24° ¥ 42'07	18°13'24	inferior conj	15721 Feb 12 09:23	7° ¥ 28'25	-4°25'17
-	15720 Mar 25 01:05	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	15721 Feb 12 18:38	7° 升 12'40	4°22'11
morning set	15720 Apr 05 07:52	19° Ƴ 32'39		morning rise	15721 Feb 20 20:25	3° 升 12′18	
	15720 Apr 10 21:41	9° 8		direct	15721 Feb 22 20:57	2°) 59′51	
desc. node	15720 Apr 13 21:58	5° 8 31'53		asc. node	15721 Feb 27 04:45	4°) € 00'24	
				morning max el	15721 Mar 03 20:32	7°) €23'42	18°57'05
superior conj	15720 Apr 14 23:00	7° 8 25'11	-0°08'37		15721 Mar 18 07:00	0° Y	
minimum elong	15720 Apr 14 22:18	7° 8 22'01	0°08'57	morning set	15721 Mar 20 06:11	3° Y 50'23	
behind sun begin	15720 Apr 14 16:01	6° 8 53'41					
behind sun end	15720 Apr 15 04:35	7° 8 50'17		superior conj	15721 Mar 28 19:15	20° Y 29'55	0°24'44
max. Earth dist.	15720 Apr 22 13:25	20° 8 41'24	1.41412 AU	minimum elong	15721 Mar 28 20:47	20° Y 37'13	0°24'16
evening rise	15720 Apr 27 07:51	28° 8 35'19		desc. node	15721 Mar 31 18:36	26° Y 04'40	
	15720 Apr 28 04:46	Π °0			15721 Apr 02 22:00	0° 8	
	15720 May 18 07:01	0ಂತಾ		max. Earth dist.	15721 Apr 04 20:06	3° 8 26'42	1.39164 AU
evening max el	15720 May 31 04:33	15°542'53	23°00'15	evening rise	15721 Apr 08 16:23	10° 8 08'25	
asc. node	15720 Jun 08 04:55	21°5523'06			15721 Apr 21 01:08	0°II	
retrograde	15720 Jun 10 11:27	21°5645'33		evening max el	15721 May 13 18:26	29° Ⅱ 37'39	24°21'31
evening set	15720 Jun 15 12:37	19° © 37'10			15721 May 14 03:33	0°€	
inferior conj	15720 Jun 20 20:12	13°913'09	2°57'45	retrograde	15721 May 25 04:41	6°518'48	
minimum elong	15720 Jun 20 18:55	13° © 17'37	2°56'45	asc. node	15721 May 26 02:01	6° © 15'26	

evening set	15721 May 30 17:25	3° © 58'08		min. Earth dist.	15722 May 18 23:36	13° Ⅲ 33'21	0.67779 AU
e venning see	15721 Jun 03 07:37	30°R Ⅱ		inferior conj	15722 May 20 10:38	11° I I41'13	2°05'40
min. Earth dist.	15721 Jun 04 06:55	28° II 43'06	0.68667 AU	minimum elong	15722 May 20 08:28	11° I I48'12	2°04'16
inferior conj	15721 Jun 05 04:59	27° I I28'46	2°37'08	morning rise	15722 May 26 00:03	5° Ⅱ 50'44	2 0.10
minimum elong	15721 Jun 05 03:04		2°35'54	direct	15722 May 29 11:04	4° ∏ 42'10	
morning rise	15721 Jun 10 12:48	21° II 28'04	2 30 0 .	morning max el	15722 Jun 05 06:25	8° П 23'03	18°58'36
direct	15721 Jun 14 10:55	20° I I00'13		desc. node	15722 Jun 14 16:06	20° Ⅱ 19'47	10 2030
morning max el	15721 Jun 22 00:13	24° I 13'27	19°56'18	greatest brilliancy	15722 Jun 18 11:48	25° Ⅱ 59'33	-0.7m
8	15721 Jun 27 01:12	0ಂಣ		8	15722 Jun 21 03:11	0°9	******
desc. node	15721 Jun 27 19:01	0°957'14		morning set	15722 Jun 28 08:58	11° © 08'44	
***************************************	15721 Jul 17 17:14	0°N			15722 Jul 10 12:27	0°N	
morning set	15721 Jul 19 01:09	2° Ω 02'18		max. Earth dist.	15722 Jul 12 09:16	2°Ω55'02	1.45698 AU
max. Earth dist.	15721 Jul 29 15:19	18° Ω 32'55	1.44676 AU	man. Barar alov.	10,22001 12 0,110	2 0000 02	1.100/0110
				superior conj	15722 Jul 14 15:31	6° Ω 27'35	-2°13'43
superior conj	15721 Aug 03 21:53	26° Ω 59'42	-1°59'59	minimum elong	15722 Jul 14 17:16	6° Ω 34'27	
minimum elong	15721 Aug 04 05:04	27° Ω 28'46		mannam erong	15722 Jul 29 09:47	0° m)	2 1.20
mmum trong	15721 Aug 05 18:16	0° m)	2 00 00	evening rise	15722 Jul 29 16:32	0° m) 27'21	
evening rise	15721 Aug 17 07:04	19° m) 15'57		asc. node	15722 Aug 08 22:58	16° m) 56'06	
asc. node	15721 Aug 17 07:04 15721 Aug 22 02:18	27° m) 25'15		evening max el	15722 Aug 08 22:58 15722 Aug 18 09:52	29° m/36'15	18°23'15
asc. nouc	15721 Aug 22 02:18 15721 Aug 23 15:12	0° ⊽		evening max er	15722 Aug 18 09:32 15722 Aug 18 19:44	0° ⊽	16 23 13
evening max el	15721 Aug 23 15.12 15721 Sep 03 19:38	0 = 15° £ 57'26	18°04'20	retrograde	15722 Aug 18 19:44 15722 Aug 24 19:36	ა 3° 01'30	
Č	15721 Sep 03 19:38 15721 Sep 10 05:07		16 04 20	•	C	2° £ 09'53	
retrograde	1	19° Ω 17'53		evening set	15722 Aug 27 20:41		
evening set	15721 Sep 12 21:17	18° Ω 41'13	1010140		15722 Aug 30 15:23	30°R, M)	2000147
inferior conj	15721 Sep 19 04:37	13° Ω 25'21	1°19'40	inferior conj	15722 Sep 02 16:39	26° m 37'59	2°09'47
minimum elong	15721 Sep 19 06:36	13° Ω 20'01	1°19'06	minimum elong	15722 Sep 02 19:00	26° m/31'03	2°09'01
min. Earth dist.	15721 Sep 21 22:43	10° ≏ 29'48	0.62844 AU	min. Earth dist.	15722 Sep 04 21:44	24° m 01'35	0.64907 AU
desc. node	15721 Sep 23 16:07	8° ≏ 49'11		morning rise	15722 Sep 08 15:55	20° m 15'56	
morning rise	15721 Sep 25 13:41	7° ≏ 14'58		desc. node	15722 Sep 10 13:35	18° m 56'48	
direct	15721 Oct 02 05:55	4° ₽ 47'43		direct	15722 Sep 15 03:43	17° m 39'38	
morning max el	15721 Oct 16 06:03	12° ≏ 46′26	27°53'20	morning max el	15722 Sep 28 16:51	25° Mp 34'16	27°16'40
	15721 Oct 30 01:09	0° M .			15722 Oct 02 18:37	0∘ ত	
	15721 Nov 16 16:14	0° ∡ ¹			15722 Oct 23 13:41	0° M ₊	
asc. node	15721 Nov 18 03:41	2° х 54′28		morning set	15722 Nov 03 03:20	19° M ₊13'32	
morning set	15721 Nov 19 15:29	5° ∡ ′54'31		asc. node	15722 Nov 05 00:30	22°M56'40	
max. Earth dist.	15721 Nov 24 18:39	16° ∡ ¹40'18	1.31868 AU	max. Earth dist.	15722 Nov 07 13:02	28°M03'56	1.33128 AU
					15722 Nov 08 11:28	0° ∡ ¹	
superior conj	15721 Nov 27 06:21	22° ∡ ¹04'58	1°15'44				
minimum elong	15721 Nov 27 04:07	21° х 52'43	1°16'16	superior conj	15722 Nov 11 10:17	6° ∡ 13'11	0°56'17
Č	15721 Nov 30 20:37	0°ჳ		minimum elong	15722 Nov 11 07:58	6° ∡ ¹00'54	0°56'38
evening rise	15721 Dec 04 01:01	6° る 57'25		evening rise	15722 Nov 18 11:40	21° ∡ ¹24'17	
Č	15721 Dec 15 21:36	0° ≈		Č	15722 Nov 22 14:47	0°₹	
desc. node	15721 Dec 20 14:02	7° ≈ 13'43		desc. node	15722 Dec 07 11:02	23° る 58'25	
evening max el	15721 Dec 28 11:21	16° ≈ 37'41	24°02'02	evening max el	15722 Dec 09 21:36	26° ප 33'48	22°18'43
retrograde	15722 Jan 11 00:33	23° ≈ 21'13	2.0202	evening man er	15722 Dec 14 01:52	0° ≈	22 10 .5
evening set	15722 Jan 15 22:10	22° ≈ 29'04		retrograde	15722 Dec 22 14:58	2°≈51'31	
min. Earth dist.	15722 Jan 21 22:55	19° ≈ 31'21	0.55433 AU	evening set	15722 Dec 26 05:36	2°≈22'49	
inferior conj	15722 Jan 23 21:34	18° ≈ 21'23		evening set	15722 Dec 31 23:55	2 ~22 ず) 30°Rる	
minimum elong	15722 Jan 24 04:54		5°33'48	min. Earth dist.	15722 Dec 31 23:33 15723 Jan 03 04:40		0.54524 AU
morning rise	15722 Feb 01 13:21	14°≈24'05	3 33 40	inferior conj	15723 Jan 03 17:12	28° ප 30'11	
direct	15722 Feb 04 00:06	14°≈08'47			15723 Jan 03 16:25	28° る 3011	6°00'40
				minimum elong			6-0040
asc. node	15722 Feb 14 02:07	18° ≈ 49'59	20002140	morning rise	15723 Jan 12 04:17	24°₹42'56	
morning max el	15722 Feb 14 12:13	19° ≈ 14'00	20°03'40	direct	15723 Jan 15 11:37	24° る 18'27	
	15722 Feb 22 16:41	0°) {			15723 Jan 27 09:54	0° ≈	
morning set	15722 Mar 04 11:33	18°) €24'50		morning max el	15723 Jan 27 12:54	0° ≈ 07'09	21°33'09
	15722 Mar 10 03:36	0° Υ		asc. node	15723 Jan 31 23:28	5°≈06'08	
		4000			15723 Feb 15 09:08	0° ∀	
superior conj	15722 Mar 12 05:38	4° Υ 11'57		morning set	15723 Feb 16 21:10	3° ∺ 07'26	
minimum elong	15722 Mar 12 08:07	4° Υ 24'20	0°51'49				
max. Earth dist.	15722 Mar 18 02:53	15° Ƴ 37'51	1.36901 AU	superior conj	15723 Feb 24 02:17	18° ∺ 20′16	1°13'11
desc. node	15722 Mar 18 15:14	16° Ƴ 35'44		minimum elong	15723 Feb 24 04:46	18° ¥ 33′07	1°13'06
evening rise	15722 Mar 21 20:35	22° Y ′30'39		max. Earth dist.	15723 Feb 28 13:58	27° ¥ 30′17	1.34837 AU
	15722 Mar 26 03:00	0°8			15723 Mar 01 20:12	0° Y	
					15700) (04 17 00	500022110	
	15722 Apr 14 20:17	$\Pi^{\circ}0$		evening rise	15723 Mar 04 17:02	5° Ƴ 32'10	
evening max el	15722 Apr 14 20:17 15722 Apr 26 08:04	0° Ц 13° Ц 31'47	25°37'04	evening rise desc. node	15/23 Mar 04 1/:02 15723 Mar 05 11:52	5° γ 3210 7° γ 00'56	
evening max el retrograde	=		25°37'04	-			
•	15722 Apr 26 08:04	13° Ⅱ 31'47	25°37'04	-	15723 Mar 05 11:52	7° Y ′00'56	26°39'34
retrograde	15722 Apr 26 08:04 15722 May 08 17:28	13° Д 31'47 20° Д 40'55	25°37'04	desc. node	15723 Mar 05 11:52 15723 Mar 18 21:50	7° Y 00'56 0° と	26°39'34

retrograde	15723 Apr 22 00:59	4° Ⅱ 44'31		retrograde	15724 Apr 04 02:20	18° 8 19'52	
evening set	15723 Apr 28 10:38	2° Ⅱ 11'58		evening set	15724 Apr 10 19:04	15° 8 50'27	
asc. node	15723 Apr 29 20:25	0° I 57′05		min. Earth dist.	15724 Apr 14 15:07	12° 8 18'54	0.64706 AU
	15723 Apr 30 19:02	30° ₹ 8		asc. node	15724 Apr 15 17:45	11° 8 07'24	
min. Earth dist.	15723 May 02 10:59	28° 8 08'33	0.66442 AU	inferior conj	15724 Apr 17 03:28	9° 8 35'06	0°26'19
inferior conj	15723 May 04 11:00	25° 8 45'38	1°22'26	minimum elong	15724 Apr 17 02:44	9° 8 37'05	0°25'35
minimum elong	15723 May 04 09:08	25° 8 51'12	1°21'09	morning rise	15724 Apr 23 12:25	4° 8 10'10	
morning rise	15723 May 10 08:48	20° 8 06'59		direct	15724 Apr 26 03:53	3° 8 33'51	
direct	15723 May 13 09:32	19° 8 15'56		morning max el	15724 May 02 11:31	6° 8 49'05	17°53'06
morning max el	15723 May 19 18:58	22° 8 37'40	18°17'21	desc. node	15724 May 18 09:59	0° Ⅱ 15'46	
-	15723 May 25 19:41	Π $^{\circ}0$			15724 May 18 06:12	Π°	
desc. node	15723 Jun 01 13:06	10° 耳 08′36		morning set	15724 May 19 22:08	2° Ⅱ 46′05	
morning set	15723 Jun 08 13:49	21° Ⅱ 18′08		C	Ž		
Z .	15723 Jun 14 01:13	0°95		superior conj	15724 Jun 02 17:33	25° Ⅱ 18'31	-1°43'31
				minimum elong	15724 Jun 02 08:51	24° I I43'48	
superior conj	15723 Jun 24 00:24	15° © 39'14	-2°07'45	g	15724 Jun 05 16:34	0°9	1 .551
minimum elong	15723 Jun 23 18:34	15°9516'25		max. Earth dist.	15724 Jun 07 01:38	2°9510'07	1.45511 AU
max. Earth dist.	15723 Jun 25 05:42	17°933'31	1.45980 AU	evening rise	15724 Jun 18 15:41	20°906'54	1.43311710
max. Earth dist.	15723 Jul 23 05:42 15723 Jul 03 05:28	0°Ω	1.43900 AU	evening rise	15724 Jun 25 03:41	20 3 00 34	
avanina riaa	15723 Jul 10 01:16	10°Ω37'58		greatest brilliancy	15724 Jul 23 05:41 15724 Jul 03 06:15	12° Ω 02'26	-0.6m
evening rise			0.0				-0.6111
greatest brilliancy	15723 Jul 20 09:24	26° Ω 38'53	-0.8m	asc. node	15724 Jul 12 16:29	24° Ω 40'12	10051106
	15723 Jul 22 14:46	0° m)		evening max el	15724 Jul 15 02:29	27° Ω 17'19	19°51'26
asc. node	15723 Jul 26 19:42	6° Mp 04'00			15724 Jul 18 07:50	0° m)	
evening max el	15723 Aug 01 20:49	13° Mp 24'52	18°59'18	retrograde	15724 Jul 22 14:04	1° Mp 30'28	
retrograde	15723 Aug 08 15:33	17° m 08'03		evening set	15724 Jul 26 10:35	0° Mp 04'40	
evening set	15723 Aug 12 02:02	15° m 59'47			15724 Jul 26 13:04	30° ₹ Ω	
inferior conj	15723 Aug 17 14:08	10° Mp 13'48	2°43'04	inferior conj	15724 Jul 31 18:01	24° Ω 06'11	3°02'08
minimum elong	15723 Aug 17 16:02	10° Mp 07'42	2°42'21	minimum elong	15724 Jul 31 19:06	24° Ω 02'32	3°01'28
min. Earth dist.	15723 Aug 19 05:11	8° m 09'15	0.66630 AU	min. Earth dist.	15724 Aug 01 19:07	22° Ω 41'40	0.67933 AU
morning rise	15723 Aug 23 05:16	3° Mp 47′23		morning rise	15724 Aug 06 03:11	17° Ω 40'46	
desc. node	15723 Aug 28 11:00	1° Mp 13'48		direct	15724 Aug 11 20:20	15° Ω 11'06	
direct	15723 Aug 29 08:55	1° Mp 10'35		desc. node	15724 Aug 14 08:25	15° Ω 35'40	
morning max el	15723 Sep 11 04:26	8° m 47'40	26°13'09	morning max el	15724 Aug 23 15:25	22° Ω 15′05	24°52'07
	15723 Sep 27 20:33	0∘ ⊽			15724 Aug 30 10:26	0° m y	
	15723 Oct 16 01:07	o° M ₊			15724 Sep 20 03:13	0∘ ⊽	
morning set	15723 Oct 17 02:32	1° M 57'30		morning set	15724 Sep 28 09:10	13° ♀ 57'07	
max. Earth dist.	15723 Oct 20 21:38	9°M10'58	1.34910 AU	max. Earth dist.	15724 Oct 01 22:03	20° £ 18'40	1.37103 AU
asc. node	15723 Oct 22 21:15	13°ML05'09			15724 Oct 07 01:41	0° M	
use. Irode	10/23 000 22 21:10	15 110,05 05			10,21,000 07 01	o 110	
superior conj	15723 Oct 26 07:07	19°M58'56	0°30'51	superior conj	15724 Oct 08 17:45	3°ML14'43	-0°00'04
minimum elong	15723 Oct 26 05:28	19°M50'31	0°31'08	minimum elong	15724 Oct 08 17:44		0°00'18
minimum ciong	15723 Oct 31 02:35	0° ∡ 7	0 31 00	behind sun begin	15724 Oct 08 17:44 15724 Oct 08 11:10	2°M42'31	0 00 10
evening rise	15723 Nov 02 20:23	5° ∡ ¹44'35		behind sun end		3°M46'47	
evening rise		ッメ・4433 0°る		asc. node	15724 Oct 09 00:18 15724 Oct 08 17:58	3°M15'44	
	15723 Nov 16 01:45		20945120				
evening max el	15723 Nov 21 16:30	6° る 51'35	20-45-30	evening rise	15724 Oct 17 00:53	19°M52'25	
desc. node	15723 Nov 24 08:07	9°る11'22			15724 Oct 22 04:16	0° ⊀ ⁷	10000111
retrograde	15723 Dec 03 01:08	12° る 30'05		evening max el	15724 Nov 03 01:46	17° ∡ 56′04	19°32'11
evening set	15723 Dec 05 12:29	12° ろ 15'13		desc. node	15724 Nov 10 05:16	22° × ⁷ 27'55	
inferior conj	15723 Dec 14 08:15	8° る 22'23		retrograde	15724 Nov 12 19:04	22° ∡ ¹47'51	
minimum elong	15723 Dec 13 23:33	8° る 34'52		evening set	15724 Nov 14 17:32	22° ∡ ³37′09	
min. Earth dist.	15723 Dec 15 10:10	7° る 45'06	0.54522 AU	inferior conj	15724 Nov 23 09:19	18° ∡ ³32′18	-4°01'46
morning rise	15723 Dec 22 10:36	4° る 27'17		minimum elong	15724 Nov 22 23:47	18° ҂ 747'31	3°57'51
direct	15723 Dec 26 19:06	3° る 46'33		min. Earth dist.	15724 Nov 25 18:39	17° ∡ 00′45	0.55442 AU
morning max el	15724 Jan 09 01:24	10° る 14'54	23°19'30	morning rise	15724 Dec 01 04:06	14° ∡ 10'39	
asc. node	15724 Jan 18 20:44	22° る 30'41		direct	15724 Dec 06 11:41	13° ∡ 07'15	
	15724 Jan 23 08:44	0° ≈		morning max el	15724 Dec 20 10:06	20° ∡ 07'33	25°08'08
morning set	15724 Feb 01 08:48	17° ≈ 51'41			15724 Dec 28 19:33	0°₹	
	15724 Feb 06 23:21	0° ∀		asc. node	15725 Jan 04 17:57	10° ප 47'21	
					15725 Jan 14 16:07	0° ≈	
superior conj	15724 Feb 08 06:05	2°) 46′07	1°27'41	morning set	15725 Jan 15 20:39	2° ≈ 32'35	
minimum elong	15724 Feb 08 07:55	2°) 56'04	1°27'58	S			
max. Earth dist.	15724 Feb 11 08:06	9°) € 20'32	1.33144 AU	superior conj	15725 Jan 22 14:30	17° ≈ 22'27	1°35'53
evening rise	15724 Feb 16 02:14	19°) (04'10		minimum elong	15725 Jan 22 15:24	17°≈27'24	1°36'29
desc. node	15724 Feb 10 02:14 15724 Feb 20 08:28	27° H 15'50		max. Earth dist.	15725 Jan 24 09:30	17 ≈2724 21°≈18'43	1.31918 AU
acse. Hode		27 γ 1330		max. Durin dist.	15725 Jan 28 10:39	0° ∺	1.51710 AU
						· /\	
	15724 Feb 21 20:07			evening rice			
evening max el	15724 Mar 12 00:50 15724 Mar 21 11:05	0°8 10°847'48	27021121	evening rise desc. node	15725 Jan 29 21:11 15725 Feb 06 05:06	2°) 59'30 17°) 15'36	

	15705 Eab. 12 15:02	0°Υ		may Earth dist	15726 Ion 07 15:40	290022125	1 21204 ATT
avanina may al	15725 Feb 13 15:23	23° Υ 48'39	27°35'57	max. Earth dist.	15726 Jan 07 15:48	3°≈22'35 17°≈10'19	1.31204 AU
evening max el	15725 Mar 03 22:22 15725 Mar 12 10:41	0° 8	21 33 31	evening rise	15726 Jan 13 23:10 15726 Jan 20 07:58	0° ∺	
retrograde	15725 Mar 17 20:27	1° 8 17'29		desc. node	15726 Jan 24 01:47	6° ¥ 52'54	
retrograde	15725 Mar 22 22:56	30°RY		dese. Hode	15726 Feb 08 13:14	0°Υ	
evening set	15725 Mar 24 16:13	28° Y '58'48		evening max el	15726 Feb 14 05:12	6° Υ 07'40	27°17'20
min. Earth dist.	15725 Mar 28 10:26	25°Y53'59	0.62664 AU	retrograde	15726 Feb 28 05:39	13° Υ 27'06	27 1720
inferior conj	15725 Mar 31 09:04	23° Υ '02'30		evening set	15726 Mar 06 23:03	11° Υ 26'36	
minimum elong	15725 Mar 31 10:31	22° Y '58'58	0°42'57	min. Earth dist.	15726 Mar 10 19:34	8° Y 41'03	0.60442 AU
asc. node	15725 Apr 02 15:05	20° Y ′55'55		inferior conj	15726 Mar 14 00:13	5° Y ′57'46	
morning rise	15725 Apr 07 07:42	17° Y ′53'36		minimum elong	15726 Mar 14 04:53	5° Ƴ 47'49	
direct	15725 Apr 09 15:13	17° Y ′28′37		asc. node	15726 Mar 20 12:28	1° Y ′29'34	
morning max el	15725 Apr 16 05:12	20° Y 48'54	17°46'16	morning rise	15726 Mar 21 14:07	1° Y °07'45	
C	15725 Apr 23 04:51	0°8		direct	15726 Mar 23 15:45	0° Υ 50'27	
morning set	15725 May 02 07:01	15° 8 23'31		morning max el	15726 Mar 30 20:40	4° Y 26'43	17°57'50
desc. node	15725 May 05 06:46	20° 8 35'53		morning set	15726 Apr 15 10:31	28° Y ′52'08	
	15725 May 10 18:17	$\Pi^{\circ}0$			15726 Apr 16 01:20	0°B	
				desc. node	15726 Apr 22 03:28	11° 8 03'57	
superior conj	15725 May 14 07:05	5° ∏ 55′23	-1°08'15				
minimum elong	15725 May 14 00:40	5° Ⅱ 28'44	1°08'07	superior conj	15726 Apr 25 20:09	17° 8 36'18	-0°29'54
max. Earth dist.	15725 May 20 18:57	16° Ⅱ 30′27	1.44350 AU	minimum elong	15726 Apr 25 17:33	17° 8 24'55	0°30'02
evening rise	15725 May 29 03:12	29° Ⅱ 36′04			15726 May 03 03:08	$\Pi^{\circ}0$	
	15725 May 29 09:25	0 \circ \odot		max. Earth dist.	15726 May 03 08:24	0°Ⅲ21'46	1.42612 AU
	15725 Jun 18 20:48	0 $^{\circ}$ Ω		evening rise	15726 May 09 03:10	9° Ⅱ 43'05	
evening max el	15725 Jun 28 02:11	11° Ω 10′56	20°57'30		15726 May 22 11:31	0 \circ \mathfrak{s}	
asc. node	15725 Jun 29 13:20	12° Ω 33'58		evening max el	15726 Jun 10 20:35	25° © 04'45	22°13'49
retrograde	15725 Jul 06 13:03	16° Ω 03′25		asc. node	15726 Jun 16 10:17	29° © 31'13	
evening set	15725 Jul 10 20:18	14° Ω 20′07			15726 Jun 17 09:43	$0^{\circ}\Omega$	
inferior conj	15725 Jul 16 01:54	8° Ω 10′28	3°08'59	retrograde	15726 Jun 20 10:47	0° Ω 41'26	
minimum elong	15725 Jul 16 02:01	8° Ω 10′02	3°08'16		15726 Jun 23 06:55	30°ષ્દ્	
min. Earth dist.	15725 Jul 16 13:25	7° Ω 30′30	0.68769 AU	evening set	15726 Jun 25 05:24	28° 5 41'34	
morning rise	15725 Jul 21 07:28	1° Ω 49'41		inferior conj	15726 Jun 30 11:38	22° © 22'23	3°04'52
	15725 Jul 24 04:20	30° ₹જી		minimum elong	15726 Jun 30 10:50	22° © 25'12	3°03'59
direct	15725 Jul 26 12:50	29° © 33'19		min. Earth dist.	15726 Jun 30 09:56	22°5528'18	0.69114 AU
	15725 Jul 29 00:45	0°N		morning rise	15726 Jul 05 16:05	16°508'27	
desc. node	15725 Aug 01 05:46	1° Ω 40′24	22022122	direct	15726 Jul 10 09:08	14°509'37	
morning max el	15725 Aug 06 02:23	5° Ω 50'54	23°23'22	desc. node	15726 Jul 19 03:03	19°503'34	21055140
. ,	15725 Aug 24 19:25	0° m)		morning max el	15726 Jul 19 15:52	19° © 35'08	21°55'48
morning set	15725 Sep 09 18:56	25°№02'31 0° <u>മ</u>			15726 Jul 28 10:00	0° N	
may Forth dist	15725 Sep 12 17:09	1° £ 57'26	1 20506 ATT	marning gat	15726 Aug 17 23:03	0° т у 5° т у07'30	
max. Earth dist.	15725 Sep 13 20:23	1 == 3 / 20	1.39506 AU	morning set max. Earth dist.	15726 Aug 21 04:54	14° Mg 29'53	1.41826 AU
superior conj	15725 Sep 21 14:26	15° ≏ 52'01	0°25'10	max. Earth dist.	15726 Aug 26 23:11	14 111/29 33	1.41620 AU
minimum elong	15725 Sep 21 14:20 15725 Sep 21 17:02	15 = 3201 16° Ω 04'08	0°34'34	superior conj	15726 Sep 03 16:49	27° Mp 41'14	10111/13
asc. node	15725 Sep 25 14:36	23° Ω 24'54	0 3434	minimum elong	15726 Sep 03 10.49	28° m) 06'35	
ase. Hode	15725 Sep 29 00:43	0°M		minimum ciong	15726 Sep 05 00:19	0° ⊽	1 1037
evening rise	15725 Sep 29 00:45 15725 Sep 30 22:25	3°M41'12		asc. node	15726 Sep 12 11:14	13° ≏ 29'25	
evening max el	15725 Oct 17 00:25	29°M50'08	18°41'04	evening rise	15726 Sep 14 09:26	17° ユ 27'29	
-0	15725 Oct 17 04:23	0° √			15726 Sep 21 13:50	0°M	
retrograde	15725 Oct 25 06:19	4° ⋌ ¹00'09		evening max el	15726 Sep 30 08:35	12°M26'37	18°11'20
evening set	15725 Oct 27 04:22	3° ∡ ¹47'24		retrograde	15726 Oct 07 13:00	16°M06'58	
desc. node	15725 Oct 28 02:32	3° ∡ ³32'37		evening set	15726 Oct 09 16:32	15° M 47'49	
	15725 Nov 03 09:39	30°RM		desc. node	15726 Oct 14 23:51	12°M43'25	
inferior conj	15725 Nov 04 05:55	29°M22'37	-2°17'20	inferior conj	15726 Oct 17 00:25	11°M01'25	-0°38'44
minimum elong	15725 Nov 04 00:21	29°M32'59	2°14'26	minimum elong	15726 Oct 16 23:02	11°ML04'25	0°37'41
min. Earth dist.	15725 Nov 07 08:32	27°M04'45	0.57121 AU	min. Earth dist.	15726 Oct 20 06:30	8°Ml13'07	0.59261 AU
morning rise	15725 Nov 11 17:06	24°M24'52		morning rise	15726 Oct 24 02:11	5°M28'33	
direct	15725 Nov 17 18:13	22°M55'13		direct	15726 Oct 30 14:04	3°M32'53	
	15725 Dec 01 15:08	0° ∡ 7		morning max el	15726 Nov 13 20:53	11° M 15'55	27°39'02
morning max el	15725 Dec 01 23:20	0° ∡ 19'35	26°39'50		15726 Nov 28 12:18	0° ∡ °	
asc. node	15725 Dec 22 15:05	29° х 42′05		asc. node	15726 Dec 09 12:07	19° ∡ °05′00	
	15725 Dec 22 18:57	0°రె			15726 Dec 14 22:04	0°రె	
morning set	15725 Dec 31 06:52	17° る 04'09		morning set	15726 Dec 15 13:41	1° る 22'26	
	15726 Jan 06 03:34	0° ≈		max. Earth dist.	15726 Dec 21 23:41	15° る 26'02	1.31028 AU
superior conj	15726 Jan 07 01:21	2°≈01'51	1°37'59	superior conj	15726 Dec 22 12:47	16°る39'24	1°34'04
minimum elong	15726 Jan 07 01:11	2°≈00'56	1°38'45	minimum elong	15726 Dec 22 11:37	16° る 32'52	1°34'51

	15726 Dec 28 13:06	0° ≈		superior conj	15727 Dec 06 22:56	1° る 09'53	1°24'10
evening rise	15726 Dec 29 06:04	1° ≈ 31'40		minimum elong	15727 Dec 06 20:59	0° る 59'05	1°24'49
desc. node	15727 Jan 10 22:33	25° ≈ 59'28		evening rise	15727 Dec 13 15:52	15° る 58'37	
	15727 Jan 13 09:45	0° ∀			15727 Dec 20 11:40	0° ≈	
evening max el	15727 Jan 27 04:50	17°) 34'49	26°23'30	desc. node	15727 Dec 28 19:26	14° ≈ 23'56	
retrograde	15727 Feb 10 04:18	24°) 42′27		evening max el	15728 Jan 08 19:52	28° ≈ 09'44	24°59'16
evening set	15727 Feb 16 12:06	23° ¥ 06'04		δ ·	15728 Jan 10 21:19	0° } €	
min. Earth dist.	15727 Feb 20 18:13	20°\(\frac{1}{2}\)28'43	0.58234 AU	retrograde	15728 Jan 22 14:56	5° ∺ 04'18	
inferior conj	15727 Feb 23 21:11	18°\(\frac{1}{2}\) 10'30		evening set	15728 Jan 28 03:48	3°) ₹55'46	
,				=			0.56205.411
minimum elong	15727 Feb 24 05:15	17°) ₹55'35	3-32-02	min. Earth dist.	15728 Feb 02 08:00	1°) 10′49	0.56295 AU
morning rise	15727 Mar 04 01:41	13°) (42′00			15728 Feb 04 04:17	30°R ≈	
direct	15727 Mar 06 01:03	13° ¥ 28'48		inferior conj	15728 Feb 04 21:13	29° ≈ 32'39	
asc. node	15727 Mar 07 09:51	13° ¥ 35′23		minimum elong	15728 Feb 05 06:25	29° ≈ 17'53	4°56'09
morning max el	15727 Mar 14 06:10	17°) €31'54	18°29'19	morning rise	15728 Feb 13 11:32	25° ≈ 25'37	
	15727 Mar 23 03:41	0 ° Υ		direct	15728 Feb 15 15:05	25° ≈ 12'39	
morning set	15727 Mar 30 03:13	12° Y 55'46		asc. node	15728 Feb 22 07:14	27° ≈ 27'19	
				morning max el	15728 Feb 25 05:35	29° ≈ 52'57	19°22'42
superior conj	15727 Apr 08 06:17	0° ප 14'10	0°06'12	•	15728 Feb 25 08:28	0°) €	
minimum elong	15727 Apr 08 06:42	0° 8 16'05	0°05'47	morning set	15728 Mar 13 04:55	27°) 21'52	
behind sun begin	15727 Apr 07 24:00	29° Υ 45'08	0 03 17	morning sec	15728 Mar 14 12:32	0°Υ	
behind sun end	-	0° 8 46'58			13/26 Widi 14 12.32	0 1	
bening sun eng	15727 Apr 08 13:24				15720 34 21 00 07	1200026144	0027100
	15727 Apr 08 03:13	0°8		superior conj	15728 Mar 21 09:07	13° Y 36'44	
desc. node	15727 Apr 09 00:08	1° 8 36'11		minimum elong	15728 Mar 21 11:11	13° Y 46′50	0°36'41
max. Earth dist.	15727 Apr 15 17:32	13° 8 33'50	1.40477 AU	desc. node	15728 Mar 25 20:47	22° Y ′09'03	
evening rise	15727 Apr 19 23:23	20° 8 44'15		max. Earth dist.	15728 Mar 27 23:43	26° Ƴ 03'17	1.38180 AU
	15727 Apr 25 16:52	$\Pi^{\circ}0$			15728 Mar 30 04:25	9° 8	
	15727 May 16 15:07	0 \circ \odot		evening rise	15728 Mar 31 16:37	2° 8 39'22	
evening max el	15727 May 24 11:24	8°958'57	23°35'03		15728 Apr 17 20:18	$\Pi^{\circ}0$	
asc. node	15727 Jun 03 07:19	15° © 14'40		evening max el	15728 May 06 00:50	22° Ⅲ 53'44	24°54'44
retrograde	15727 Jun 04 06:01	15°9518'33		retrograde	15728 May 17 21:36	29° ∏ 48'50	
evening set	15727 Jun 09 12:16	13° © 04'18		asc. node	15728 May 20 04:26	29° I I26'50	
inferior conj	15727 Jun 14 21:19	6°937'41	2°50'18	evening set	15728 May 23 15:15	27° Ⅲ 20′30′ 27° Ⅲ 23′41	
·				•	•		0.68343 AU
minimum elong	15727 Jun 14 19:43	6°543'09	2°49'11	min. Earth dist.	15728 May 28 01:21	22° Ⅱ 24'33	
min. Earth dist.	15727 Jun 14 06:35	7° © 28'17	0.68970 AU	inferior conj	15728 May 29 05:01	20° ∏ 53'05	2°25'11
morning rise	15727 Jun 20 03:10	0°932'03		minimum elong	15728 May 29 02:56	20° Ⅱ 59'59	2°23'52
	15727 Jun 20 20:53	30° Ŗ Ⅱ		morning rise	15728 Jun 03 14:55	14° Ⅱ 56'43	
direct	15727 Jun 24 08:01	28° Ⅱ 52'53		direct	15728 Jun 07 08:06	13° Ⅱ 37'26	
	15727 Jun 28 01:39	0 \circ \odot		morning max el	15728 Jun 14 13:00	17° Ⅲ 35'31	19°29'52
morning max el	15727 Jul 02 10:51	3° 5 29'48	20°36'21	desc. node	15728 Jun 21 21:23	26° Ⅲ 28'34	
desc. node	15727 Jul 06 00:16	7°924'38			15728 Jun 24 09:52	0°ಲಾ	
	15727 Jul 22 07:07	$0^{\circ}\Omega$		greatest brilliancy	15728 Jun 27 04:57	4°9502'56	-0.6m
morning set	15727 Jul 31 17:19	14° Ω 18'32		morning set	15728 Jul 09 21:01	23° © 11'07	
max. Earth dist.	15727 Aug 09 08:33	27° Ω 54'30	1.43791 AU	morning sec	15728 Jul 14 07:08	0°Ω	
max. Lattii dist.	15727 Aug 10 15:42	0°m)	1.43771 AU	max. Earth dist.	15728 Jul 21 23:27		1.45197 AU
	13/2/ Aug 10 13.42	עוויט		max. Earth dist.	13/26 Jul 21 23.27	11 663636	1.43197 AU
	15727 4 15 20 45	00, 20, 20, 20, 20, 20, 20, 20, 20, 20,	1044150		15720 1 1 26 01 20	100 00 (142	2000100
superior conj	15727 Aug 15 20:45	8° m) 32'26		superior conj	15728 Jul 26 01:29	18° Ω 26'43	
minimum elong	15727 Aug 16 04:31	9° m 04'44	1°44'35	minimum elong	15728 Jul 26 07:01	18° Ω 48'46	2°08'23
evening rise	15727 Aug 28 05:17	29° m 43'05			15728 Aug 02 05:24	0° ™	
	15727 Aug 28 09:08	0∘ ಹ		evening rise	15728 Aug 09 04:42	11° m y 30'34	
asc. node	15727 Aug 30 07:52	3° ≏ 24'38		asc. node	15728 Aug 16 04:32	23° m 06'14	
evening max el	15727 Sep 13 21:56	25° ₽ 34'26	18°01'27		15728 Aug 20 12:59	0∘ ত	
retrograde	15727 Sep 20 11:36	28° ≏ 58'35		evening max el	15728 Aug 27 12:47	9° ഫ 04'29	18°10'09
evening set	15727 Sep 22 22:47	28° ≏ 29'20		retrograde	15728 Sep 02 21:27	12° ≏ 25'39	
inferior conj	15727 Sep 29 14:13	23° ہ 23'22	0°42'12	evening set	15728 Sep 05 17:13	11° ≏ 43'05	
minimum elong	15727 Sep 29 15:27	23° ≏ 20'17	0°41'59	inferior conj	15728 Sep 11 19:18	6° ≏ 20'11	1°43'07
desc. node	15727 Oct 01 21:15	21° Ω 05'53	0 1109	minimum elong	15728 Sep 11 21:34	6° £ 13′50	1°42'25
min. Earth dist.	15727 Oct 02 14:18	20° £ 24'41	0.61554 AU	min. Earth dist.	15728 Sep 14 08:09	3° ⊆ 30'39	0.63758 AU
			0.01334 AU		-		0.03/30 AU
morning rise	15727 Oct 06 05:21	17° Ω 23'28		desc. node	15728 Sep 17 18:41	0° Ω 13'54	
direct	15727 Oct 12 21:32	15° Ω 05'47	27050100	morning rise	15728 Sep 18 00:00	0° Ω 03'28	
morning max el	15727 Oct 27 01:50	23° ₾ 01'49	27°59'09		15728 Sep 18 01:49	30°R, Mp	
	15727 Nov 02 07:12	0°M₊		direct	15728 Sep 24 14:49	27° mg 31'07	
	15727 Nov 21 18:07	0° ∡ 7			15728 Oct 01 20:27	0∘ ⊽	
asc. node	15727 Nov 26 09:05	8° ∡ ¹47'56		morning max el	15728 Oct 08 11:18	5° ≏ 30'30	27°41'26
morning set	15727 Nov 29 15:06	15° ∡ ¹22'26			15728 Oct 27 02:32	0° M	
max. Earth dist.	15727 Dec 05 05:09	27° х 19'19	1.31400 AU	morning set	15728 Nov 12 08:43	28°M58'35	
	15727 Dec 06 10:18	ರ∘ರ		asc. node	15728 Nov 12 05:58	28°M44'49	
					15728 Nov 12 20:58	0° ∡ ¹	

max. Earth dist.	15728 Nov 17 04:19	8° ₹ 54'06	1.32334 AU	max. Earth dist.	15729 Oct 30 18:20	20°M08'34	1.33824 AU
superior conj	15728 Nov 20 05:47	15° ∡ 728'08	1°08'14	superior conj	15729 Nov 04 07:05	29°M28'19	0°46'13
minimum elong	15728 Nov 20 03:47	15° х 26°08 15° х 15′27	1°08'40	minimum elong	15729 Nov 04 04:57	29°M17'09	0°46'31
	15728 Nov 26 21:46	0°る		8	15729 Nov 04 13:06	0° ⊼	
evening rise	15728 Nov 27 02:45	0° る 26'48		evening rise	15729 Nov 11 12:50	14° ∡ ′51'49	
-	15728 Dec 13 07:39	0° ≈			15729 Nov 19 02:08	ರ°0	
desc. node	15728 Dec 14 16:23	1° ≈ 50'47		desc. node	15729 Dec 01 13:25	18° ප 00'06	
evening max el	15728 Dec 20 05:32	8° ≈ 10′32	23°17'47	evening max el	15729 Dec 01 18:35	18° る 12'54	21°37'07
retrograde	15729 Jan 02 12:23	14° ≈ 45′21		retrograde	15729 Dec 13 23:28	24° る 14'55	
evening set	15729 Jan 06 20:57	14° ≈ 04'13		evening set	15729 Dec 17 01:04	23° る 53'37	
min. Earth dist.	15729 Jan 13 16:04	10° ≈ 52'41	0.54934 AU	inferior conj	15729 Dec 25 17:20	20° る 03'03	
inferior conj	15729 Jan 15 01:20	10° ≈ 04'35		minimum elong	15729 Dec 25 12:35	20° る 09'42	
minimum elong	15729 Jan 15 05:49	9° ≈ 58'06	5°52'27	min. Earth dist.	15729 Dec 25 21:35	19° る 57'06	0.54405 AU
morning rise	15729 Jan 23 16:06	6°≈13'06		morning rise	15730 Jan 03 00:40	16°る14'38	
direct	15729 Jan 26 10:12	5°≈54'57	20°39'14	direct	15730 Jan 06 18:48	15°る43'53 21°る50'53	22°16'55
morning max el	15729 Feb 06 15:04 15729 Feb 08 04:36	11°≈19'19 12°≈55'54	20-39-14	morning max el	15730 Jan 19 09:49 15730 Jan 26 01:55	21° 6 30'33 29° 6 43'41	22-10-55
asc. node	15729 Feb	12 ≈33 34 0°) (asc. node	15730 Jan 26 06:33	29 ○ 43 41 0° ≈	
morning set	15729 Feb 25 12:21	0 X 12° ∺ 00'17		morning set	15730 Feb 09 23:03	0 ≈ 26°≈44'18	
morning set	13/2/100 23 12:21	12 /(001/		morning set	15730 Feb 11 11:52	0°)	
superior conj	15729 Mar 05 00:16	27° ¥ 31′04	1°01'53		10,00100 11 11.02	٠,٨	
minimum elong	15729 Mar 05 02:50	27°) (44'10	1°01'38	superior conj	15730 Feb 17 00:17	11°){ 47'47	1°20'06
, and the second	15729 Mar 06 05:40	0° Υ		minimum elong	15730 Feb 17 02:33	11°) 59'45	1°20'11
max. Earth dist.	15729 Mar 10 07:19	8° Y 01'55	1.35976 AU	max. Earth dist.	15730 Feb 20 21:12	19°) 51'44	1.34067 AU
desc. node	15729 Mar 12 17:24	12° Y ′38′06		evening rise	15730 Feb 25 06:28	28°) ₹35′20	
evening rise	15729 Mar 14 04:09	15° Ƴ 19′27			15730 Feb 26 00:04	0° Y	
	15729 Mar 22 13:52	9° 8		desc. node	15730 Feb 27 14:01	2° Y 59'41	
	15729 Apr 12 10:25	Π °0			15730 Mar 15 18:41	0°8	
evening max el	15729 Apr 18 14:25	6° ∏ 45'24	26°05'46	evening max el	15730 Apr 01 04:17	20° 8 26'31	27°00'27
retrograde	15729 May 01 08:28	14° Ⅱ 03'57		retrograde	15730 Apr 14 13:24	27° 8 55'59	
asc. node	15729 May 07 01:38	11° Ⅱ 54'35		evening set	15730 Apr 21 02:19	25° 8 24'15	
evening set	15729 May 07 12:35	11° Ⅱ 32'40	0.67055.444	asc. node	15730 Apr 23 22:53	22° 8 45'03	0.65746.433
min. Earth dist.	15729 May 11 16:07	7° Ⅱ 09'15	0.67255 AU	min. Earth dist.	15730 Apr 25 00:45	21° 8 34'33	0.65746 AU
inferior conj minimum elong	15729 May 13 08:42 15729 May 13 06:34	5°П02'52 5°П09'31	1°48'50 1°47'28	inferior conj minimum elong	15730 Apr 27 06:01 15730 Apr 27 04:31	19° 8 01'37	1°00'16 0°59'09
minimum ciong	15729 May 18 00:59	30°R ႘	1 4/20	morning rise	15730 May 03 08:11	13° 8 28'13	0 39 09
morning rise	15729 May 19 01:19	29° 8 17'06		direct	15730 May 06 04:52	12° 8 43'44	
direct	15729 May 22 07:46	28° 8 16'22		morning max el	15730 May 12 12:31	16° 8 01'21	18°04'52
	15729 May 26 19:33	0°II			15730 May 22 20:51	0°II	
morning max el	15729 May 28 22:05	1° Ⅱ 47'57	18°38'59	desc. node	15730 May 26 15:21	6° Ⅱ 00′28	
desc. node	15729 Jun 08 18:25	16° Ⅱ 03'19		morning set	15730 May 31 04:29	13° Ⅲ 22'04	
	15729 Jun 17 19:13	0 \circ \odot			15730 Jun 10 13:09	0 \circ \odot	
morning set	15729 Jun 19 12:04	2° 5 39'34					
max. Earth dist.	15729 Jul 04 18:11	26° © 27'39	1.45910 AU	superior conj	15730 Jun 14 23:48	7° 5 00'47	
				minimum elong	15730 Jun 14 15:57	6° © 29'56	
superior conj	15729 Jul 05 13:31	27°5643'05		max. Earth dist.	15730 Jun 17 14:42	11° © 07'06	1.45874 AU
minimum elong	15729 Jul 05 11:52	27° © 36'36	2°14'27		15730 Jun 29 18:51	0°N	
- -	15729 Jul 07 00:36	0°N		evening rise	15730 Jul 01 02:52	2°Ω03'30	0.7.
evening rise	15729 Jul 21 03:26	22° Ω 15'02		greatest brilliancy	15730 Jul 13 12:45	20° Ω 59'11	-0.7m
greatest brilliancy	15729 Jul 26 00:20 15729 Jul 28 03:30	0° Mp 3° Mp 22'33	-0.9m	asc. node	15730 Jul 19 20:26 15730 Jul 20 21:58	0° Т у 1° Ту 24'01	
asc. node	15729 Aug 03 01:14	12° Mp 28'28	-0.9111	evening max el	15730 Jul 25 10:53	6° Mp 39'53	19°19'41
evening max el	15729 Aug 11 01:56	22° m/48'40	18°36'33	retrograde	15730 Aug 01 11:44	10° m ₂ 33'59	17 17 11
retrograde	15729 Aug 17 14:31	26° mg 19'52	10 30 33	evening set	15730 Aug 05 02:29	9° mp 18'13	
evening set	15729 Aug 20 19:30	25° m/21'28		inferior conj	15730 Aug 10 12:14	3° m) 26'55	2°52'45
inferior conj	15729 Aug 26 11:45	19° m 43'40	2°25'45	minimum elong	15730 Aug 10 13:50	3° m/21'42	2°52'03
minimum elong	15729 Aug 26 13:58	19° m 36'50	2°25'00	min. Earth dist.	15730 Aug 11 21:19		0.67244 AU
min. Earth dist.	15729 Aug 28 11:02	17° m 19'13	0.65692 AU		15730 Aug 13 04:44	30° R Ω	
morning rise	15729 Sep 01 07:19	13° m 18'58		morning rise	15730 Aug 16 00:35	27° Ω 00′39	
desc. node	15729 Sep 04 16:06	11° m 15'04		direct	15730 Aug 22 00:07	24° Ω 25′59	
direct	15729 Sep 07 16:10	10° m 41'05		desc. node	15730 Aug 22 13:30	24° Ω 27'12	
morning max el	15729 Sep 20 22:31	18° m 30'22	26°52'15		15730 Sep 01 12:09	0° m)	
	15729 Sep 30 15:57	0∘ ⊽		morning max el	15730 Sep 03 09:41	1° m 50'04	25°40'13
•	15729 Oct 20 01:52	0°M			15730 Sep 24 17:42	0° ⊽	
morning set	15729 Oct 26 15:40	12°M04'14		morning set	15730 Oct 09 08:17	24° Ω 30'18	
asc. node	15729 Oct 30 02:46	18° M 50′37			15730 Oct 12 07:31	0° M .	

Double dies	15720 0-4 12 22.59	10 M 12/50	1 25000 ATT		15721 A 16 20:25	159 022107	24014154
max. Earth dist. asc. node	15730 Oct 12 22:58 15730 Oct 16 23:29	1°M.12'59 9°M.00'29	1.35808 AU	morning max el	15731 Aug 16 20:35	15° Ω 22'07 0° m	24-14-54
asc. node	13/30 Oct 16 23.29	9 11600 29			15731 Aug 28 21:22 15731 Sep 17 15:38	0∘ ত المار	
superior conj	15730 Oct 18 24:00	13°M02'38	0°18'22	morning set	15731 Sep 17 15.38 15731 Sep 21 06:35	0 = 6° ჲ 08'21	
minimum elong	15730 Oct 18 24:00 15730 Oct 18 22:55	12°M57'12	0°18'40	max. Earth dist.	15731 Sep 24 22:16		1.38122 AU
evening rise	15730 Oct 18 22:33 15730 Oct 26 20:03	29°M07'47	0 1840	max. Earth dist.	13/31 Sep 24 22.10	12 = 33 14	1.36122 AU
evening rise	15730 Oct 20 20:03	0° √		superior conj	15731 Oct 02 05:14	26° ჲ 03'30	-0°14'34
evening max el	15730 Oct 27 00:13 15730 Nov 13 19:23	28° х 49'06	20011137	minimum elong	15731 Oct 02 05:14 15731 Oct 02 06:12	26° ⊆ 03'30 26° ⊆ 08'12	
evening max er	15730 Nov 15 01:34	28 × 4900	20 11 54	behind sun begin	15731 Oct 02 00:12 15731 Oct 02 02:48	25° £ 51'55	0 1403
desc. node	15730 Nov 18 10:32	2° る 26'36		behind sun end	15731 Oct 02 02:48	26° £ 24'29	
retrograde	15730 Nov 24 11:03	4°る07'25		asc. node	15731 Oct 02 09:30 15731 Oct 03 20:10	20 = 24 29 29° ⊆ 11'10	
evening set	15730 Nov 26 15:17	3°る55'09		asc. node	15731 Oct 04 06:13	0°M	
inferior conj	15730 Nov 20 13:17 15730 Dec 05 10:57	29° х 58'26	1051155	evening rise	15731 Oct 04 00:13	13°M 09'04	
-	15730 Dec 05 10:37 15730 Dec 05 01:00	0° る 13'15		evening rise	15731 Oct 10 22:01 15731 Oct 19 21:58	13 1160904 0° √ 1	
minimum elong	15730 Dec 05 01:00 15730 Dec 05 09:54	0 01313 30°R. ₹	4 31 31	avanina may al		0 x . 10° x 14'45	19°07'36
min. Earth dist.		30 Kx. 28° √ 57'51	0.54814 AU	evening max el	15731 Oct 27 10:37	10 x 14 43	19 07 30
	15730 Dec 07 03:40	25° x '57' 51	0.34814 AU	retrograde	15731 Nov 05 11:57		
morning rise	15730 Dec 13 09:59			desc. node	15731 Nov 05 07:43	14° × 47'56	
direct	15730 Dec 18 05:08	25°♂04'36 0°る		evening set	15731 Nov 07 09:07	14° х 37'03	201.010.1
	15730 Dec 29 19:11		24007122	inferior conj	15731 Nov 15 19:39	10° × 23'48	
morning max el	15730 Dec 31 19:16	1°る46'43	24°06'32	minimum elong	15731 Nov 15 11:32	10° ∡ ³37'36	
asc. node	15731 Jan 12 23:10	17° る 32'04		min. Earth dist.	15731 Nov 18 13:57	8° ₹ 31'18	0.56085 AU
	15731 Jan 19 21:39	0°≈		morning rise	15731 Nov 23 11:22	5° ×7 47'13	
morning set	15731 Jan 25 11:00	11° ≈ 27'33		direct	15731 Nov 29 02:55	4° ₹ 33'16	25050120
				morning max el	15731 Dec 13 05:17	11° ∡ ¹44'05	25°50'20
superior conj	15731 Feb 01 06:18		1°31'55		15731 Dec 27 06:15	0° る	
minimum elong	15731 Feb 01 07:46	26°≈26'25	1°32'21	asc. node	15731 Dec 30 20:21	6° ප 06'08	
	15731 Feb 02 23:08	0° ∀		morning set	15732 Jan 09 22:23	26°る05'05	
max. Earth dist.	15731 Feb 03 18:49	1°) 45'46	1.32569 AU		15732 Jan 11 17:35	0° ≈	
evening rise	15731 Feb 08 20:09	12° 米 17′50					
desc. node	15731 Feb 14 10:39	23° ¥ 08'45		superior conj	15732 Jan 16 16:00	10° ≈ 56'31	1°37'31
	15731 Feb 18 06:14	0° Ƴ		minimum elong	15732 Jan 16 16:27	10° ≈ 59'01	1°38'12
	15731 Mar 11 02:21	0°8		max. Earth dist.	15732 Jan 17 22:47	13° ≈ 47'11	1.31552 AU
evening max el	15731 Mar 14 17:06	3° 8 45'23	27°31'26	evening rise	15732 Jan 23 18:23	26° ≈ 20'02	
retrograde	15731 Mar 28 11:32	11° 8 16'06			15732 Jan 25 13:06	0° ∀	
evening set	15731 Apr 04 06:14	8° 8 50'30		desc. node	15732 Feb 01 07:19	12°) 59'39	
min. Earth dist.	15731 Apr 08 01:15	5° 8 31'06	0.63871 AU		15732 Feb 11 16:23	0°Υ	25022112
inferior conj	15731 Apr 10 18:15	2° 8 42'32		evening max el	15732 Feb 25 02:39	16° Y 28'59	2/°32'12
minimum elong	15731 Apr 10 18:19	2° 8 42'23 2° 8 42'23	0°01'54	retrograde	15732 Mar 10 01:54	23°Y54'23	
transit middle transit begin	15731 Apr 10 18:19 15731 Apr 10 15:12	2° 8 50'30	0 01 34	evening set min. Earth dist.	15732 Mar 16 21:40 15732 Mar 20 16:04	21° Y 42'15	0.61730 AU
transit degiii	15731 Apr 10 13.12 15731 Apr 10 21:25	2° 8 34'17		inferior conj	15732 Mar 23 18:08	15° Υ 56'56	
asc. node	15731 Apr 10 21:23	2° 8 37'28		•	15732 Mar 23 20:50	15° Υ 50'42	
asc. node	15731 Apr 10 20:12 15731 Apr 13 12:15	2 3 3728 30° ₹ Υ		minimum elong asc. node	15732 Mar 27 17:34	13 γ 30 42 12° Υ 37'00	1 13 32
marnina rias	15731 Apr 17 08:44	30 K 1 27° Υ 23'59				12 γ 57 00 10° γ 56'02	
morning rise direct	15731 Apr 17 08:44 15731 Apr 19 20:45	26° Y '52'46		morning rise direct	15732 Mar 30 23:11 15732 Apr 02 03:57	10 γ 30 02 10° γ 34'45	
morning max el	-	0° 8 08'29	17°48'03		15732 Apr 02 03.37 15732 Apr 08 23:06	10 γ 34 43 14° γ 00'10	17°48'58
morning max er	15731 Apr 26 05:53 15731 Apr 26 02:21	0 808 29 0°8	1 / 48 03	morning max el	15732 Apr 19 23:37	0° 8	1/4636
morning set	15731 May 12 23:56	25° 8 21'43		morning set	15732 Apr 19 25.57 15732 Apr 24 17:26	8° 8 22'40	
Č		26° 8 13'45		desc. node	•	16° 8 37'36	
desc. node	15731 May 13 12:12 15731 May 15 17:40	0°Ⅱ		uese. Houe	15732 Apr 29 08:58	10 03/30	
	13/31 Way 13 17.40	υщ		superior conj	15732 May 06 00:16	28° 8 06'23	-0°51'59
superior conj	15731 May 26 00:38	17° Ⅱ 01'55	-1°29'23	minimum elong	15732 May 05 19:28	27° 8 46'03	
minimum elong	15731 May 25 16:28	16° Ⅲ 28'53		minimum clong	15732 May 07 03:11	27 О 40 03	0 31 33
max. Earth dist.	15731 May 31 10:20	25° II 40'36	1.45096 AU	max. Earth dist.	15732 May 13 02:17	9° ∏ 50'30	1.43663 AU
max. Earm uist.	15731 Jun 03 04:15	23 п 40 36	1.75070 AU	evening rise	15732 May 20 05:12	9 П 3030 21° П 08'30	1.TJUUJ AU
evening rise	15731 Jun 10 13:58	11°S27'27		evening rise	15732 May 25 03:12 15732 May 25 23:52	0°95	
evening 1150	15731 Jun 22 22:25	0°Ω			15732 Jun 16 10:51	0°€ 0°€	
asc. node	15731 Jul 07 18:46	19° Ω 43'53		avaning may al	15732 Jun 20 11:13		21°28'59
evening max el	15731 Jul 07 18:46 15731 Jul 08 14:04	19° λ (43°53 20° Ω 33'24	20°18'01	evening max el asc. node	15/32 Jun 20 11:13 15/32 Jun 23 15:40	7°Ω15'16	41 40 39
-		$20^{\circ} 033^{\circ} 24$ $25^{\circ} 02^{\circ} 09$	40 1001			9° Ω 37'46	
retrograde	15731 Jul 16 10:43			retrograde	15732 Jul 03 21:29	9° 3 137'46 7° Ω 47'07	
evening set	15731 Jul 20 11:48	23° Ω 28'36	2006127	evening set	15732 Jul 03 21:29		2000122
inferior conj	15731 Jul 25 18:07	17° Ω 25'05 17° Ω 22'45	3°06'27 3°05'46	inferior conj	15732 Jul 09 03:02 15732 Jul 09 02:45	1° Ω 32'55 1° Ω 33'54	3°08'33 3°07'47
minimum elong min. Earth dist.	15731 Jul 25 18:48	$1/^{\circ} \Omega 122'45$ $16^{\circ} \Omega 19'30$	0.68346 AU	minimum elong min. Earth dist.		1° Ω 12'42	0.68968 AU
	15731 Jul 26 13:18	11°Ω01'30	0.00340 AU	mm. Earm dist.	15732 Jul 10 05:49	1° 3€ 12′42 30°Rூ	0.00900 AU
morning rise direct	15731 Jul 31 01:28	8°Ω37'07		morning rice	15732 Jul 10 05:48 15732 Jul 14 07:48	30°қಅ 25°©14'46	
desc. node	15731 Aug 05 13:40 15731 Aug 09 10:51	9° Ω 36'08		morning rise direct	15/32 Jul 14 07:48 15732 Jul 19 07:49	23°905'42	
desc. Houc	13/31 Aug 07 10.31) 06 30 08		uncet	13/32 Jul 19 U/.49	42 د ن د خ	

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desc. node	15732 Jul 26 08:10	26° © 16'37		morning rise	15733 Jun 28 17:42	9° © 35'50	
morning max el	15732 Jul 29 08:27	29° © 01'48	22°45'37	direct	15733 Jul 03 05:28	7° © 45'11	
	15732 Jul 30 07:02	$0^{\circ}\Omega$		morning max el	15733 Jul 11 23:55	12° © 49'44	21°20'36
	15732 Aug 21 14:15	0° m		desc. node	15733 Jul 13 05:27	14° © 06'08	
morning set	15732 Sep 01 06:28	16° Mp 48′39			15733 Jul 25 14:36	0 $^{\circ}$ Ω	
max. Earth dist.	15732 Sep 05 21:53	24° Mp 33'04	1.40515 AU	morning set	15733 Aug 12 06:25	26° Ω 27'47	
	15732 Sep 09 01:53	0∘ ⊽			15733 Aug 14 12:07	0° m ∤	
				max. Earth dist.	15733 Aug 19 02:40	7° m , 25′22	1.42714 AU
superior conj	15732 Sep 13 18:39	8° ≙ 21'07	-0°50'43				
minimum elong	15732 Sep 13 22:36	8° ₾ 39'03	0°50'01	superior conj	15733 Aug 26 11:51	19° m 45'55	-1°26'36
asc. node	15732 Sep 19 16:49	19° ≙ 18'42		minimum elong	15733 Aug 26 18:47	20° Mp 15'36	1°25'57
evening rise	15732 Sep 23 15:35	26° ≏ 47'21			15733 Sep 01 08:41	0∘ ত	
	15732 Sep 25 08:17	0° M		evening rise	15733 Sep 06 20:44	9° ≙ 52'12	
evening max el	15732 Oct 09 13:50	22° ML $28'01$	18°25'53	asc. node	15733 Sep 06 13:27	9° ₽ 19'21	
retrograde	15732 Oct 17 07:49	26° ML $24'04$			15733 Sep 18 17:01	0° M	
evening set	15732 Oct 19 07:36	26°ML09'13		evening max el	15733 Sep 23 00:46	5°M19'06	18°04'53
desc. node	15732 Oct 22 04:58	24°M59'39		retrograde	15733 Sep 29 21:38	8°M50'41	
inferior conj	15732 Oct 27 01:44	21°M35'20	-1°33'50	evening set	15733 Oct 02 04:16	8°M27'42	
minimum elong	15732 Oct 26 22:05	21°M42'37	1°31'45	inferior conj	15733 Oct 09 04:53	3°MJ33'01	-0°02'00
min. Earth dist.	15732 Oct 30 07:20	19° ML 01'57	0.57990 AU	minimum elong	15733 Oct 09 04:49	3°M33'08	0°01'36
morning rise	15732 Nov 03 09:04	16°M21'33		transit middle	15733 Oct 09 04:49	3°M33'08	0°01'36
direct	15732 Nov 09 15:28	14°M40'29		transit begin	15733 Oct 09 01:31	3°M40'46	
morning max el	15732 Nov 23 22:12	22°M14'22	27°09'33	transit end	15733 Oct 09 08:08	3°M25'30	
	15732 Nov 30 19:12	0° ∡ 7		desc. node	15733 Oct 09 02:20	3°M38'53	
asc. node	15732 Dec 16 17:27	25° ∡ 14′07		min. Earth dist.	15733 Oct 12 09:29	0°M37'32	0.60232 AU
	15732 Dec 19 04:44	5°0			15733 Oct 13 02:55	30° ₹ Ω	
morning set	15732 Dec 24 07:27	10° る 32'15		morning rise	15733 Oct 16 02:11	27° ≙ 47'33	
				direct	15733 Oct 22 16:52	25° £ 41'22	
superior conj	15732 Dec 31 03:24	25° ට 36'29	1°37'04		15733 Nov 01 23:17	0° M .	
minimum elong	15732 Dec 31 02:47	25° ප 33'05	1°37'51	morning max el	15733 Nov 05 22:59	3°MJ31'15	27°52'24
max. Earth dist.	15732 Dec 31 06:09	25° ප 51'56	1.31059 AU	-	15733 Nov 25 11:21	0° ∡ ¹	
	15733 Jan 02 02:31	0° ≈		asc. node	15733 Dec 03 14:28	14° ∡ ¹46′18	
evening rise	15733 Jan 06 22:46	10° ≈ 36′20		morning set	15733 Dec 08 12:14	24° ∡ ¹43'19	
-	15733 Jan 16 19:04	0° ∀			15733 Dec 10 23:34	0°ಕ	
desc. node	15733 Jan 18 04:03	2°) 25′21		max. Earth dist.	15733 Dec 14 13:19	7° る 51'22	1.31115 AU
evening max el	15733 Feb 06 06:35	28° ∺ 26'40	26°58'36				
•	15733 Feb 07 23:50	$0^{\circ}\mathbf{\Upsilon}$		superior conj	15733 Dec 15 14:32	10° ප 11'54	1°30'38
retrograde	15733 Feb 20 07:16	5° Ƴ 42'14		minimum elong	15733 Dec 15 13:00	10°る03'20	1°31'21
evening set	15733 Feb 26 21:30	3° Y 51'08		evening rise	15733 Dec 22 07:07	25° ට 00'44	
min. Earth dist.	15733 Mar 02 20:47		0.59483 AU	C	15733 Dec 24 15:24	0° ≈	
	15733 Mar 04 08:29	30° ₹ ₩		desc. node	15734 Jan 05 00:51	21°≈15'31	
inferior conj	15733 Mar 06 02:03	28°) 35′43	-2°43'08		15734 Jan 10 21:32	0° ∀	
minimum elong	15733 Mar 06 08:13	28° ∺ 23'17		evening max el	15734 Jan 19 02:41	9° ∺ 31'26	25°50'54
morning rise	15733 Mar 13 22:28	23°) 54′56		retrograde	15734 Feb 02 01:16	16°) 33′50	
asc. node	15733 Mar 14 14:57	23°) 46′28		evening set	15734 Feb 08 01:55	15° ¥ 09'23	
direct	15733 Mar 15 22:25	23°) 39′57		min. Earth dist.	15734 Feb 12 15:44	12°) 30′38	0.57358 AU
morning max el	15733 Mar 23 12:40	27° ∺ 26′26	18°08'42	inferior conj	15734 Feb 15 14:22	10° ¥ 27'59	-4°12'30
-	15733 Mar 25 20:03	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	15734 Feb 15 23:24	10°) 12′14	4°09'21
morning set	15733 Apr 08 03:11	22° Y 08'04		morning rise	15734 Feb 23 23:54	6° ₩ 08'32	
	15733 Apr 12 08:21	0°8		direct	15734 Feb 25 23:53	5° ¥ 56′01	
desc. node	15733 Apr 16 05:41	7° 8 08'06		asc. node	15734 Mar 01 12:22	6° 升 37'06	
	•			morning max el	15734 Mar 06 18:25	10° ∺ 14'19	18°49'09
superior conj	15733 Apr 17 22:52	10° 8 13'23	-0°14'07	-	15734 Mar 19 16:56	$0^{\circ}\mathbf{\Upsilon}$	
minimum elong	15733 Apr 17 21:42	10° 8 08'11	0°14'23	morning set	15734 Mar 23 00:11	6° Ƴ 22'27	
behind sun begin	15733 Apr 17 18:22	9° 8 53'16		-			
behind sun end	15733 Apr 18 01:02	10° 8 23'04		superior conj	15734 Mar 31 16:38	23° Y 11'20	0°20'03
max. Earth dist.	15733 Apr 25 13:20	23° 8 24'00	1.41735 AU	minimum elong	15734 Mar 31 17:55	23° Ƴ 17′23	0°19'34
	15733 Apr 29 13:12	Π°		desc. node	15734 Apr 03 02:22	27° Ƴ 40'47	
evening rise	15733 Apr 30 13:22	1° Ⅱ 37'55			15734 Apr 04 08:42	8° 0	
-	15733 May 19 09:33	0ಂತಾ		max. Earth dist.	15734 Apr 07 20:37	6° 8 16'12	1.39510 AU
evening max el	15733 Jun 03 03:44	18° © 19'33	22°48'08	evening rise	15734 Apr 11 18:47	13° 8 02'54	
asc. node	15733 Jun 10 12:38	23°543'02			15734 Apr 22 07:24	$\Pi^{\circ}0$	
retrograde	15733 Jun 13 06:24	24°515'39			15734 May 14 14:08	0ಂತ	
evening set	15733 Jun 18 05:50	22° 5 09'29		evening max el	15734 May 16 17:54	2°514'25	24°09'37
min. Earth dist.	15733 Jun 23 05:47	16°©11'45	0.69108 AU	retrograde	15734 May 28 00:08	8°950'00	
inferior conj	15733 Jun 23 13:00	15°5546'39	2°59'58	asc. node	15734 May 28 09:42	8°5549'20	
minimum elong	15733 Jun 23 11:50	15°950'42	2°59'00	evening set	15734 Jun 02 11:13	6°930'56	

evening set	15736 Apr 30 06:22	4° ∏ 48'58		evening set	15737 Apr 13 16:15	18° 8 31'05	
asc. node	15736 May 01 04:03	4°Π02'00		min. Earth dist.	15737 Apr 13 10:13 15737 Apr 17 12:51	14° 8 54'55	0.64987 AU
min. Earth dist.	15736 May 01 04.03	4 П02 00 0°П40'32	0.66666 AU	asc. node	-	14° 8 21'07	0.04987 AU
IIIII. Eartii tist.	,	0 Д4032 30°R と	0.00000 AU	inferior conj	15737 Apr 18 01:20	14 8 21 07	0°35'44
	15736 May 04 21:03		1020140		15737 Apr 19 23:24		
inferior conj	15736 May 06 05:36	28° 8 21'28	1°29'49	minimum elong	15737 Apr 19 22:26	12° 8 16'08	0°34'52
minimum elong	15736 May 06 03:38	28° 8 27'23	1°28'30	morning rise	15737 Apr 26 06:31	6° 8 46'13	
morning rise	15736 May 12 01:58	22° 8 41'01		direct	15737 Apr 28 23:15	6° 8 07'56	
direct	15736 May 15 04:08	21° 8 47'35		morning max el	15737 May 05 06:42	9° 8 23'33	17°55'34
morning max el	15736 May 21 14:37	25° 8 11'28	18°22'26		15737 May 19 13:53	0°Щ	
	15736 May 25 18:30	Π °0		desc. node	15737 May 20 17:38	1° ∏ 54'20	
desc. node	15736 Jun 02 20:45	11° ∏ 49'47		morning set	15737 May 23 00:08	5° Ⅱ 39'19	
morning set	15736 Jun 10 19:54	24° Ⅱ 23'16					
	15736 Jun 14 09:01	0		superior conj	15737 Jun 06 01:59	28° Ⅱ 29'39	
				minimum elong	15737 Jun 05 17:18	27° Ⅲ 55'11	1°48'10
superior conj	15736 Jun 26 11:05	18° © 57'14	-2°09'56		15737 Jun 07 00:48	0 \circ	
minimum elong	15736 Jun 26 06:13	18° © 38'16	2°10'36	max. Earth dist.	15737 Jun 09 23:54	4° © 39'57	1.45629 AU
max. Earth dist.	15736 Jun 27 04:00	20°9503'07	1.45988 AU	evening rise	15737 Jun 22 02:12	23° 5 23'37	
	15736 Jul 03 13:12	$0^{\circ}\Omega$			15737 Jun 26 10:02	$0^{\circ}\Omega$	
evening rise	15736 Jul 12 09:58	13° Ω 51'14		greatest brilliancy	15737 Jul 06 06:04	14° Ω 43'17	-0.6m
greatest brilliancy	15736 Jul 21 23:33	28° Ω 45'46	-0.8m	asc. node	15737 Jul 15 00:13	26° Ω 36′09	
	15736 Jul 22 18:57	0° mp		evening max el	15737 Jul 17 23:48	29° Ω 53'38	19°42'45
asc. node	15736 Jul 28 03:27	7° m 54'31			15737 Jul 18 02:22	o∘ m y	
evening max el	15736 Aug 03 17:13	16° m) 01'16	18°52'49	retrograde	15737 Jul 25 08:25	4° m 01'29	
retrograde	15736 Aug 10 10:09	19° m) 41'03		evening set	15737 Jul 29 03:23	2° m/38'23	
evening set	15736 Aug 13 19:09	18° m) 35'26			15737 Jul 31 21:08	30°RΩ	
inferior conj	15736 Aug 19 08:14	12° mp 51'30	2°38'58	inferior conj	15737 Aug 03 11:20	26° Ω 41'47	3°00'04
minimum elong	15736 Aug 19 10:14	12° Mp 45'09	2°38'14	minimum elong	15737 Aug 03 12:34	26° Ω 37'41	2°59'23
min. Earth dist.	15736 Aug 21 01:26	10° Mp 41'24	0.66403 AU	min. Earth dist.	15737 Aug 03 12:34 15737 Aug 04 14:32	25°Ω10'51	0.67770 AU
morning rise	15736 Aug 25 00:26	6° Mp 25'12	0.00403 AU	morning rise	15737 Aug 04 14.32 15737 Aug 08 21:15	20°Ω15'59	0.07770 AC
desc. node	15736 Aug 29 18:34	3° Mp 55'57		•	•	17° Ω 44'42	
				direct	15737 Aug 14 16:09	17 δί 44 42 18° Ω 00'15	
direct	15736 Aug 31 05:29	3° Mp 47'50	26022150	desc. node	15737 Aug 16 15:57		25004152
morning max el	15736 Sep 13 04:08	11° m/28'49	26°23'50	morning max el	15737 Aug 26 15:08	24° Ω 54'28	25°04'52
	15736 Sep 27 23:43	0∘ ⊽			15737 Aug 31 05:49	0° my	
_	15736 Oct 16 11:17	0° ™			15737 Sep 21 10:36	0∘ ⊽	
morning set	15736 Oct 19 01:21	4°M46'23		morning set	15737 Oct 01 10:45	16° ≏ 53'27	
max. Earth dist.	15736 Oct 22 22:12	12°M11'46	1.34611 AU	max. Earth dist.	15737 Oct 04 23:27	23° ≏ 17'26	1.36758 AU
asc. node	15736 Oct 24 05:01	14° M 44'04			15737 Oct 08 12:59	0° M	
				asc. node	15737 Oct 11 01:44	4°M54'43	
superior conj	15736 Oct 28 02:19	22°M37'36	0°35'04				
minimum elong	15736 Oct 28 00:31	22°M28'19	0°35'21	superior conj	15737 Oct 11 14:45	5° M 58'46	0°04'56
	15736 Oct 31 15:02	0° ∡ 7		minimum elong	15737 Oct 11 14:24	5° M 57′06	0°05'18
evening rise	15736 Nov 04 13:28	8° ∡ 17′02		behind sun begin	15737 Oct 11 08:15	5°M26'47	
	15736 Nov 16 01:01	8°0		behind sun end	15737 Oct 11 20:34	6° M 27′30	
evening max el	15736 Nov 23 17:42	9° る 57'05	20°58'19	evening rise	15737 Oct 19 18:47	22°M27'20	
desc. node	15736 Nov 25 15:45	11° る 41'51			15737 Oct 23 13:27	0° ∡ ¹	
retrograde	15736 Dec 05 08:02	15° පි 42'08		evening max el	15737 Nov 06 00:51	20° ∡ 54'19	19°41'42
evening set	15736 Dec 07 22:31	15° る 26'00		desc. node	15737 Nov 12 12:54	25° ∡ 17'32	
inferior conj	15736 Dec 16 17:44	11° ට 34'13	-5°35'35	retrograde	15737 Nov 15 23:49	25° ∡ 52'42	
minimum elong	15736 Dec 16 09:51	11° る 45'28		evening set	15737 Nov 17 23:21	25° ∡ '41'48	
min. Earth dist.	15736 Dec 17 14:14	11° る 05'01	0.54454 AU	inferior conj	15737 Nov 26 16:32	21° ₹ ³39'28	-4°16'33
morning rise	15736 Dec 24 21:18	7° る 41'26		minimum elong	15737 Nov 26 06:42	21° ×7 54'52	
direct	15736 Dec 29 02:04	7° る 03'30		min. Earth dist.	15737 Nov 28 22:05	20°×715'43	0.55253 AU
morning max el	15737 Jan 11 04:59	13° පි 26'57	23°03'07	morning rise	15737 Dec 04 12:23	17° ∡ 22′50	0.55255710
asc. node	15737 Jan 20 04:22	24° ට 31'03	23 03 07	direct	15737 Dec 09 17:01	16° ₹ 22'58	
asc. node	15737 Jan 23 14:23	0°≈		morning max el	15737 Dec 03 17:01 15737 Dec 23 13:32	23°×718'52	24052125
morning sat	15737 Feb 03 01:13	0 ∞ 20°≈20'45		morning max ci	15737 Dec 29 13:13	25 × 16 52 0°る	24 32 33
morning set		20 ≈ 2043		asc. node		12°る40'34	
	15737 Feb 07 12:36	0 /		asc. Houe	15738 Jan 07 01:36		
aumani ·	15727 E-L 00 02 02	50W 17100	1925152		15738 Jan 16 04:11	0°≈ 5°2202!06	
superior conj	15737 Feb 09 23:22	5°) 17'09	1°25'52	morning set	15738 Jan 18 13:09	5° ≈ 02'06	
minimum elong	15737 Feb 10 01:20	5°) (27'43	1°26'07		15720 1 25 25 15	100 - 5115	1025102
max. Earth dist.	15737 Feb 13 06:11	12°) 14'49	1.33365 AU	superior conj	15738 Jan 25 07:15	19° ≈ 51'56	1°35'02
evening rise	15737 Feb 17 21:57	21°) (42'21		minimum elong	15738 Jan 25 08:18		1°35'35
desc. node	15737 Feb 21 16:11	28°) ₹55'13		max. Earth dist.	15738 Jan 27 06:38	24°≈11'27	1.32070 AU
	15737 Feb 22 06:08	0° Υ		_	15738 Jan 29 23:30	0° ∀	
	15737 Mar 12 23:29	0°8		evening rise	15738 Feb 01 15:38	5°) (34′25	
evening max el	15737 Mar 24 10:29	13° 8 29'23	27°16'53	desc. node	15738 Feb 08 12:50	18° ¥ 57'26	
retrograde	15737 Apr 07 00:27	21° 8 01'21			15738 Feb 14 21:09	0° Y	

evening max el	15738 Mar 06 22:18	26° Ƴ 35'16	27°35'50	desc. node	15739 Jan 26 09:33	8° ¥ 38'21	
evening max er	15738 Mar 10 21:29	0° 8	27 33 30	desc. Hode	15739 Feb 09 06:26	0°Υ	
retrograde	15738 Mar 10 21.29	4° 8 04'41		evening max el	15739 Feb	9° Υ 01'00	2702220
evening set	15738 Mar 27 15:14	1° 8 44'08		retrograde	15739 Mar 03 06:10	9 Y 01 00 16° Υ 21'48	27 22 20
evening set		1 044 08 30°RΥ		-		10 γ 21 48 14° Υ 18'08	
: E 4 E 4	15738 Mar 29 20:39		0.62005 ATT	evening set	15739 Mar 10 00:25		0.60776.411
min. Earth dist.	15738 Mar 31 09:37	28° Y 35'37	0.62985 AU	min. Earth dist.	15739 Mar 13 20:13	11° Υ 30'28	0.60776 AU
inferior conj	15738 Apr 03 06:51	25° Y ′44′28		inferior conj	15739 Mar 17 00:25	8° Y 44'57	
minimum elong	15738 Apr 03 07:54	25° Y 41'52	0°31'42	minimum elong	15739 Mar 17 04:32	8° Ƴ 35'57	1°50'45
asc. node	15738 Apr 04 22:41	24° Y ′08′01		asc. node	15739 Mar 22 20:03	4° Y 30'45	
morning rise	15738 Apr 10 03:17	20° Y 32'51		morning rise	15739 Mar 24 11:59	3° Y 51′59	
direct	15738 Apr 12 11:55	20° Y ′06′21		direct	15739 Mar 26 14:24	3° Y 33'43	
morning max el	15738 Apr 19 00:22	23° Y '25'07	17°46'06	morning max el	15739 Apr 02 16:25	7° Y ′06'45	17°54'57
	15738 Apr 24 07:11	0°8			15739 Apr 17 11:09	0°8	
morning set	15738 May 05 05:43	18° 8 07'15		morning set	15739 Apr 18 06:53	1° 8 29'36	
desc. node	15738 May 07 14:27	22° 8 12'34		desc. node	15739 Apr 24 11:13	12° 8 39'54	
	15738 May 12 03:41	Π °0					
				superior conj	15739 Apr 28 21:45	20° 8 28'24	-0°35'40
superior conj	15738 May 17 12:01	8° Ⅱ 56′22	-1°13'58	minimum elong	15739 Apr 28 18:35	20° 8 14'43	0°35'45
minimum elong	15738 May 17 05:04	8° Ⅲ 27'44	1°13'47		15739 May 04 12:23	Π °0	
max. Earth dist.	15738 May 23 17:51	19° Ⅱ 03'45	1.44566 AU	max. Earth dist.	15739 May 06 08:20	3° Ⅱ 01'40	1.42899 AU
	15738 May 30 16:59	0 \circ \odot		evening rise	15739 May 12 10:32	12° Ⅱ 49'50	
evening rise	15738 Jun 01 13:02	2° 5 49'43			15739 May 23 16:54	0 \circ \odot	
	15738 Jun 19 22:27	$0^{\circ}\Omega$		evening max el	15739 Jun 13 19:33	27° © 41'05	22°01'57
evening max el	15738 Jul 01 00:26	13° Ω 47'15	20°46'58		15739 Jun 16 08:10	$0^{\circ}\Omega$	
asc. node	15738 Jul 01 21:03	14° Ω 37'03		asc. node	15739 Jun 18 17:58	1° Ω 44'02	
retrograde	15738 Jul 09 07:24	18° Ω 33'12		retrograde	15739 Jun 23 05:28	3° Ω 11′05	
evening set	15738 Jul 13 13:04	16° Ω 52'23		evening set	15739 Jun 27 22:24	1° Ω 13′27	
inferior conj	15738 Jul 18 18:47	10° Ω 44'23	3°08'40	C	15739 Jun 29 05:11	30°Rூ	
minimum elong	15738 Jul 18 19:03	10° Ω 43'27	3°07'58	inferior conj	15739 Jul 03 04:23	24°955'28	3°06'09
min. Earth dist.	15738 Jul 19 08:17	9° Ω 57'41	0.68675 AU	minimum elong	15739 Jul 03 03:43	24° © 57'49	3°05'19
morning rise	15738 Jul 24 00:44	4°Ω22'52		min. Earth dist.	15739 Jul 03 04:36	24°954'44	0.69094 AU
direct	15738 Jul 29 07:56	2°Ω04'14		morning rise	15739 Jul 08 08:51	18°9540'30	
desc. node	15738 Aug 03 13:19	3°Ω50'57		direct	15739 Jul 13 03:43	16°939'00	
morning max el	15738 Aug 09 01:57	8° Ω 28'56	23°36'45	desc. node	15739 Jul 21 10:38	21°903'43	
morning max cr	15738 Aug 25 23:44	0° m)	23 30 43	morning max el	15739 Jul 22 15:00	22°9512'14	22°08'31
morning set	15738 Sep 12 23:52	28° Mp 07'26		morning max ci	15739 Jul 29 09:03	0°Ω	22 0031
morning set	15738 Sep 14 02:26	ე∘ <u>ი</u>			15739 Aug 19 06:22	0°m)	
max. Earth dist.	15738 Sep 14 02.20	0 = 4° £ 50'55	1.39149 AU	morning got	15739 Aug 19 00:22 15739 Aug 24 13:28	8°Mp21'28	
max. Earm dist.	13/36 Sep 10 21.33	4 = 30 33	1.39149 AU	morning set max. Earth dist.	15739 Aug 24 13.28 15739 Aug 30 00:02	17° Mp 15'38	1.41499 AU
gunariar agni	15729 Cap. 24 12:49	18° ≏ 42'35	0°20'40	max. Earth dist.	•	0∘ ʊ	1.41499 AU
superior conj	15738 Sep 24 13:48		0°29'06		15739 Sep 06 10:16	0 ==	
minimum elong	15738 Sep 24 15:57	18° ♀ 52'41	0-2906		15720 0 06 10 11	00 0 20120	1006114
asc. node	15738 Sep 27 22:23	25° ₽ 04'24		superior conj minimum elong	15739 Sep 06 19:11	0° Ω 39'20	
	15738 Sep 30 11:37	0°M		U	15739 Sep 07 00:30	1° Ω 02'52 15° Ω 09'48	1-05/31
evening rise	15738 Oct 03 17:35	6° IL 19'39 0° <i>⊀</i> 7		asc. node	15739 Sep 14 19:02		
	15738 Oct 17 12:42		10047114	evening rise	15739 Sep 17 06:28	19° Ω 45'36	
evening max el	15738 Oct 19 21:44	2° × 741'16	18°47'14		15739 Sep 22 20:35	0°M	1001.40.5
retrograde	15738 Oct 28 08:17	6° ₹ 56'52		evening max el	15739 Oct 03 04:44	15°M11'45	18°14'25
evening set	15738 Oct 30 05:57	6° 🗷 44'40		retrograde	15739 Oct 10 12:21	18°M55'52	
desc. node	15738 Oct 30 10:08	6° ₹ 42′23	2022100	evening set	15739 Oct 12 14:49	18°M37'57	
inferior conj	15738 Nov 07 09:58	2° 1 22'52		desc. node	15739 Oct 17 07:26	16°M07'30	0050110
minimum elong	15738 Nov 07 03:42	2° ⋌ ³34'14		inferior conj	15739 Oct 20 01:20	13°M54'36	
min. Earth dist.	15738 Nov 10 10:52		0.56840 AU	minimum elong	15739 Oct 19 23:24	13°M58'42	
	15738 Nov 10 17:20	30°RM₁		min. Earth dist.	15739 Oct 23 07:33	11°M09'36	0.58926 AU
morning rise	15738 Nov 14 22:23	27° M ₃30'45		morning rise	15739 Oct 27 04:34	8°M26'22	
direct	15738 Nov 20 21:18	26°M05'12		direct	15739 Nov 02 15:10	6° ™ 34'28	
	15738 Dec 01 00:54	0° ∡ ¹		morning max el	15739 Nov 16 22:11	14°M15'14	27°32'39
morning max el	15738 Dec 05 01:45		26°27'58		15739 Nov 29 13:56	0° ∡ ¹	
	15738 Dec 24 02:53	0°ಕ		asc. node	15739 Dec 11 19:51	20° х 49′15	
asc. node	15738 Dec 24 22:46	1° る 30'02			15739 Dec 16 10:19	0°る	
morning set	15739 Jan 02 23:45	19° る 35'04		morning set	15739 Dec 18 07:13	3° る 55'39	
	15739 Jan 07 17:24	0° ≈					
				superior conj	15739 Dec 25 05:22	19° る 08'52	
superior conj	15739 Jan 09 17:53	4° ≈ 30'50	1°38'04	minimum elong	15739 Dec 25 04:21		1°35'50
minimum elong	15739 Jan 09 17:53	4° ≈ 30'48	1°38'48	max. Earth dist.	15739 Dec 24 20:26	18° る 18'52	1.31019 AU
max. Earth dist.	15739 Jan 10 12:31	6° ≈ 14'49	1.31280 AU		15739 Dec 30 02:21	0° ≈	
evening rise	15739 Jan 16 16:46	19° ≈ 42'55		evening rise	15739 Dec 31 23:04	4° ≈ 02'49	
	15739 Jan 21 18:21	0° ∀		desc. node	15740 Jan 13 06:18	27° ≈ 50′00	

_	_		_				
	15740 Jan 14 13:29	0° ∀			15740 Dec 20 21:27	0° ≈	
evening max el	15740 Jan 30 06:47	20° ¥ 35'39	26°33'37	desc. node	15740 Dec 30 03:07	16°≈21'50	
retrograde	15740 Feb 13 06:33	27°) 45'29	20 33 37	desc. node	15741 Jan 09 15:25	0° ∀	
evening set	15740 Feb 19 16:22	26°\(\frac{1}{100}\)		evening max el	15741 Jan 10 23:02	1° ¥ 18′07	25°13'22
min. Earth dist.	15740 Feb 23 20:19	23° ¥ 27'28	0.58547 AU	retrograde	15741 Jan 24 19:20	8° ¥ 15′09	20 13 22
inferior conj	15740 Feb 27 00:17	21°\(\frac{1}{2}\)04'22		evening set	15741 Jan 30 11:31	7° ₩ 02'28	
minimum elong	15740 Feb 27 07:54	20°) 49'58	3°18'34	min. Earth dist.	15741 Feb 04 11:26	4°) 19'39	0.56552 AU
morning rise	15740 Mar 06 02:49	16° ¥ 32'48	3 10 34	inferior conj	15741 Feb 07 03:34	2°) 34'41	
direct	15740 Mar 08 02:10	16° X 19'15		minimum elong	15741 Feb 07 03:54	2°)(19'23	
asc. node	15740 Mar 08 17:28	16° ¥ 20'43		minimum ciong	15741 Feb 11 09:51	2 / (1923 30°R ≈	4 44 32
morning max el	15740 Mar 16 03:08		18°23'24	morning rise	15741 Feb 11 09.51	30 k∞ 28°≈24'37	
morning max er	15740 Mar 23 09:06	20 γ (1/30	10 23 24	direct		28°≈11'58	
		0 1 15° Υ 28'45		asc. node	15741 Feb 17 19:10	28 ≈11 38 29°≈56'54	
morning set	15740 Mar 31 21:55			asc. node	15741 Feb 23 14:53	29 ≈36 34 0° \	
	15740 Apr 08 14:14	0°B			15741 Feb 23 16:55		10012116
	15740 4 10 05 02	2012	0001100	morning max el	15741 Feb 27 04:22	2°\(\frac{1}{46}\)'24	19°13'16
superior conj	15740 Apr 10 05:03	2° 8 58'42	0°01'00	morning set	15741 Mar 15 22:29	29°) 52′00	
minimum elong	15740 Apr 10 05:06	2° 8 58'53	0°00'36		15741 Mar 16 00:05	0 ° Υ	
behind sun begin	15740 Apr 09 21:51	2° 8 25'39					
behind sun end	15740 Apr 10 12:21	3° 8 32'02		superior conj	15741 Mar 24 05:39	16° Y 15′12	
desc. node	15740 Apr 10 07:55	3° 8 11'48		minimum elong	15741 Mar 24 07:33	16° Y 24'24	0°32'21
max. Earth dist.	15740 Apr 17 17:57	16° 8 19'26	1.40806 AU	desc. node	15741 Mar 28 04:34	23° Y 44'40	
evening rise	15740 Apr 22 03:34	23° 8 42'33		max. Earth dist.	15741 Mar 31 00:03	28° Y 53′29	1.38522 AU
	15740 Apr 26 00:49	Π °0			15741 Mar 31 14:51	0 \circ 8	
	15740 May 16 14:16	0		evening rise	15741 Apr 03 17:47	5° 8 30'00	
evening max el	15740 May 26 10:41	11° © 34'50	23°22'49		15741 Apr 19 01:12	Π $^{\circ}0$	
asc. node	15740 Jun 04 14:58	17° © 39'56		evening max el	15741 May 09 00:12	25° Ⅱ 29'25	24°43'14
retrograde	15740 Jun 06 01:13	17° 5 048'45			15741 May 14 08:37	0 \circ \odot	
evening set	15740 Jun 11 05:43	15° © 36'26		retrograde	15741 May 20 17:27	2° 5 20'01	
min. Earth dist.	15740 Jun 16 01:23	9° © 54'48	0.69022 AU	asc. node	15741 May 22 12:03	2°906'40	
inferior conj	15740 Jun 16 14:12	9° © 10'37	2°53'10	evening set	15741 May 26 09:22	29° Ⅱ 56′21	
minimum elong	15740 Jun 16 12:43	9° © 15'45	2°52'07		15741 May 26 07:39	30° Ŗ Ⅱ	
morning rise	15740 Jun 21 19:41	3° 5 03'36		min. Earth dist.	15741 May 30 20:36	24° Ⅱ 51'39	0.68467 AU
direct	15740 Jun 26 02:16	1° 5 21'32		inferior conj	15741 May 31 22:19	23° Ⅲ 26′01	2°29'43
morning max el	15740 Jul 04 09:04	6°905'26	20°47'26	minimum elong	15741 May 31 20:17	23° Ⅲ 32'48	2°28'25
desc. node	15740 Jul 07 07:53	9° © 17'07		morning rise	15741 Jun 06 07:25	17° Ⅱ 28′04	
	15740 Jul 22 12:41	$0^{\circ}\Omega$		direct	15741 Jun 10 02:18	16° Ⅱ 05'50	
morning set	15740 Aug 03 04:36	17° Ω 39'09		morning max el	15741 Jun 17 10:01	20° Ⅱ 09'04	19°38'45
•	15740 Aug 11 00:13	0° mp		desc. node	15741 Jun 24 05:03	28° Ⅱ 15'10	
max. Earth dist.	15740 Aug 11 08:06		1.43531 AU		15741 Jun 25 11:50	0ං ම	
	Č	•		greatest brilliancy	15741 Jun 30 06:07	6°547'13	-0.6m
superior conj	15740 Aug 18 02:37	11° m)39'12	-1°40'25	morning set	15741 Jul 13 08:16	26° © 30'36	
minimum elong	15740 Aug 18 10:17	12° m)11'17		Č	15741 Jul 15 14:44	$0^{\circ}\Omega$	
	15740 Aug 28 18:12	0∘ <u>v</u>		max. Earth dist.	15741 Jul 24 22:02		1.45031 AU
evening rise	15740 Aug 30 04:53	2° ₽ 33'00					
asc. node	15740 Aug 31 15:39	5° ഫ 06'28		superior conj	15741 Jul 29 10:36	21° Ω 41'13	-2°05'30
evening max el	15740 Sep 15 17:33	28° ♀ 15'21	18°01'45	minimum elong	15741 Jul 29 16:51	22°Ω06'13	
evening max er	15740 Sep 17 18:20	0°M	10 01 15	minimum crong	15741 Aug 03 14:00	0° m)	2 03 11
retrograde	15740 Sep 22 08:51	1°M41'06		evening rise	15741 Aug 12 07:38	14° m) 28'47	
evening set	15740 Sep 24 18:46	1°M13'39		asc. node	15741 Aug 18 12:16	24° m 50'09	
evening sec	15740 Sep 27 02:14	30°R ≏		use. Houe	15741 Aug 21 16:35	0₀ ರ	
inferior conj	15740 Oct 01 12:30	26° ₽ 10'35	0°31'09	evening max el	15741 Aug 30 08:23		18°07'45
minimum elong	15740 Oct 01 12:30	26° ⊆ 08'16	0°31'06	retrograde	15741 Sep 05 17:10	15° ≏ 03'14	10 07 43
desc. node	15740 Oct 01 13:27 15740 Oct 03 04:49	24° ₽ 31'26	0 31 00	evening set	15741 Sep 03 17:10 15741 Sep 08 11:38	14° £ 22'48	
min. Earth dist.		23° £ 11'59	0.61211 AU	inferior conj		9° £ 02'24	1°35'06
	15740 Oct 04 13:58	23 ≥ 11 39 20° ⊆ 14'00	0.01211 AU	3	15741 Sep 14 15:30	9 2 02 24 8° 2 56'22	1°33'06 1°34'26
morning rise direct	15740 Oct 08 05:13	20 ≥ 14 00 17° ♀ 59'00		minimum elong min. Earth dist.	15741 Sep 14 17:42	8 ≗ 36 22 6° ₽ 10'21	0.63444 AU
	15740 Oct 14 21:10		27050140		15741 Sep 17 06:18		0.03444 AU
morning max el	15740 Oct 29 02:12	25° £ 54'04	27°58'40	desc. node	15741 Sep 20 02:13	3° £ 26'48	
	15740 Nov 01 22:00	0°M 0°. ₹		morning rise	15741 Sep 20 21:43	2° £ 47'43	
1	15740 Nov 22 02:57	0° ∡ ¹		direct	15741 Sep 27 13:09	0° 2 16'53	27046116
asc. node	15740 Nov 27 16:51	10° ₹ 29'53		morning max el	15741 Oct 11 11:02	8° £ 16'25	2/~46'16
morning set	15740 Dec 01 09:36	17° ∡ 759'04			15741 Oct 28 06:57	0° M ₊	
	15740 Dec 06 23:53	0°る	1.01001.1==		15741 Nov 14 08:43	0° ∡¹	
max. Earth dist.	15740 Dec 07 02:28	0° る 14'15	1.31304 AU	asc. node	15741 Nov 14 13:43	0° ∡ ¹24'54	
	15510 5	207	100 (10)	morning set	15741 Nov 15 04:30	1°×738'56	1 001 - 1 - 1
superior conj	15740 Dec 08 15:50		1°26'06	max. Earth dist.	15741 Nov 20 02:41	11° ∡ 751'40	1.32156 AU
minimum elong	15740 Dec 08 13:59	3° る 30'52	1°26'45			=-	
evening rise	15740 Dec 15 08:33	18° る 29'27		superior conj	15741 Nov 22 23:17	18° ∡ ′01′29	1°11'03

minimum elong	15741 Nov 22 20:58	17° ∡ 148'54	1°11'32	evening rise	15742 Nov 14 05:39	17° х 23'20	
	15741 Nov 28 10:33	0°る 2°る57'38		J J.	15742 Nov 20 10:18	0°궁 20°궁20'39	
evening rise	15741 Nov 29 19:20 15741 Dec 14 05:25	2° ⊘ 3/38 0° ≈		desc. node	15742 Dec 03 21:01	20° る 20'39	21°51'22
desc. node	15741 Dec 14 03.23 15741 Dec 17 00:02	0 ≈ 3°≈58'28		evening max el	15742 Dec 04 21:01 15742 Dec 17 06:24	21 3 21 39 27° 3 29'16	21 31 22
evening max el	15741 Dec 17 00.02 15741 Dec 23 09:10	3 ≈38 28 11°≈22'30	23°33'23	retrograde evening set	15742 Dec 17 06.24 15742 Dec 20 12:30	27° ろ 05'34	
retrograde	15742 Jan 05 18:36	11 ≈22 30 18°≈00'33	25 35 25	inferior conj	15742 Dec 29 03:15	27 3 03 34 23° る 14'42	5050102
evening set	15742 Jan 10 07:47	18 ≈00 33 17°≈15'45		minimum elong	15742 Dec 29 03:15 15742 Dec 28 23:51	23° る 1442 23° る 19'27	5°57'01
min. Earth dist.	15742 Jan 16 20:12	17 ≈13 43 14°≈09'24	0.55091 AU	min. Earth dist.	15742 Dec 28 23:31 15742 Dec 29 01:40	23° る 1927	0.54429 AU
inferior conj	15742 Jan 18 10:21	13°≈13'37		morning rise	15743 Jan 06 11:57	19° る 27'05	0.54429 AU
minimum elong	15742 Jan 18 15:59	13°≈05'22		direct	15743 Jan 10 02:18	19 3 2703	
morning rise	15742 Jan 27 01:41	9°≈20'13	3 4030	morning max el	15743 Jan 22 12:39	24° る 59'18	22°01'18
direct	15742 Jan 29 16:56	9°≈03'13		morning max cr	15743 Jan 27 00:38	0°≈	22 01 10
morning max el	15742 Feb 09 16:02	14°≈21'02	20°26'17	asc. node	15743 Jan 28 09:35	1°≈48'25	
asc. node	15742 Feb 10 12:15	15°≈11'42	20 20 17	morning set	15743 Feb 12 15:32	29°≈12'21	
ase. noue	15742 Feb 20 19:05	0° ∀		morning sev	15743 Feb 13 00:34	0° ∀	
morning set	15742 Feb 28 05:11	14°) € 28'53			10, 10 1 00 10 00.0 1	٠,٨	
				superior conj	15743 Feb 19 18:01	14°) 18'46	1°17'44
superior conj	15742 Mar 07 19:09	0° Y 05'07	0°58'32	minimum elong	15743 Feb 19 20:22		1°17'47
minimum elong	15742 Mar 07 21:43	0° Υ 18'03	0°58'14	max. Earth dist.	15743 Feb 23 20:04	22° ¥ 46'06	1.34329 AU
	15742 Mar 07 18:09	$0^{\circ}\mathbf{\Upsilon}$			15743 Feb 27 11:36	0° Υ	
max. Earth dist.	15742 Mar 13 07:11	10° Y ′55'42	1.36295 AU	evening rise	15743 Feb 28 03:06	1° Y 14'41	
desc. node	15742 Mar 15 01:09	14° Υ 14'18		desc. node	15743 Mar 01 21:45	4° Ƴ 37'00	
evening rise	15742 Mar 17 02:47	18° Ƴ 03'51			15743 Mar 16 22:56	0°B	
Č	15742 Mar 23 22:22	0°B		evening max el	15743 Apr 04 03:39	23° 8 05'22	26°53'39
	15742 Apr 13 06:52	$\Pi^{\circ}0$		· ·	15743 Apr 14 04:04	$\Pi^{\circ}0$	
evening max el	15742 Apr 21 13:47	9° Ⅱ 22'04	25°56'04	retrograde	15743 Apr 17 10:45	0° Ⅱ 33'39	
retrograde	15742 May 04 04:59	16° Ⅱ 37'35		C	15743 Apr 20 13:09	30°R ∀	
asc. node	15742 May 09 09:15	14° Ⅱ 50′12		evening set	15743 Apr 23 22:36	28° 8 01'33	
evening set	15742 May 10 07:37	14° Ⅱ 07'00		asc. node	15743 Apr 26 06:31	25° 8 53'38	
min. Earth dist.	15742 May 14 12:06	9° Ⅱ 38'18	0.67446 AU	min. Earth dist.	15743 Apr 27 21:42	24° 8 07'08	0.65996 AU
inferior conj	15742 May 16 02:42	7° Ⅱ 36'49	1°55'10	inferior conj	15743 Apr 30 01:08	21° 8 37'33	1°08'31
minimum elong	15742 May 16 00:33	7° Ⅱ 43'38	1°53'46	minimum elong	15743 Apr 29 23:29	21° 8 42'21	1°07'19
morning rise	15742 May 21 18:08	1° Ⅱ 49'18		morning rise	15743 May 06 01:42	16° 8 02'14	
direct	15742 May 25 02:10	0° Ⅱ 45'50		direct	15743 May 08 23:48	15° 8 15'27	
morning max el	15742 May 31 18:04	4° Ⅲ 20′27	18°45'30	morning max el	15743 May 15 07:52	18° 8 34'12	18°08'54
desc. node	15742 Jun 11 02:06	17° Ⅱ 45'47			15743 May 24 01:37	Π °0	
greatest brilliancy	15742 Jun 14 19:30	23° Ⅱ 23'34	-0.8m	desc. node	15743 May 28 23:03	7° Ⅱ 40′00	
	15742 Jun 19 02:16	0ංම		morning set	15743 Jun 03 08:47	16° Ⅲ 21′22	
morning set	15742 Jun 22 20:30	5°950'41			15743 Jun 11 21:28	0 \circ	
max. Earth dist.	15742 Jul 07 16:35	28° © 57'12	1.45852 AU				
	15742 Jul 08 08:40	$0^{\circ}\Omega$		superior conj	15743 Jun 18 09:46	10° © 15'44	-2°02'41
				minimum elong	15743 Jun 18 02:29	9° 5 47'14	2°03'06
superior conj	15742 Jul 09 00:22	1° Ω 01'19		max. Earth dist.	15743 Jun 20 13:14	13° © 36'57	1.45926 AU
minimum elong	15742 Jul 08 23:56	0° Ω 59'38	2°14'54		15743 Jul 01 02:19	0 $^{\circ}$ Ω	
evening rise	15742 Jul 24 10:11	25° Ω 23'04		evening rise	15743 Jul 04 12:40	5° Ω 18'43	
	15742 Jul 27 07:21	0° m)		greatest brilliancy	15743 Jul 16 05:43	23° Ω 15'44	-0.7m
asc. node	15742 Aug 05 08:56	14° m) 15'48			15743 Jul 20 20:27	0° m)	
evening max el	15742 Aug 13 22:00	25° m 25'31	18°31'30	asc. node	15743 Jul 23 05:39	3° Mp 16'00	
retrograde	15742 Aug 20 09:22	28° m 54'14		evening max el	15743 Jul 28 07:42	9° m 16'00	19°12'11
evening set	15742 Aug 23 12:59	27° m 58'14		retrograde	15743 Aug 04 06:12	13° m 05'59	
inferior conj	15742 Aug 29 06:28	22° m 22'29		evening set	15743 Aug 07 19:27	11° m 52'48	20.40122
minimum elong	15742 Aug 29 08:45	22° m 15'35	2°19'34	inferior conj	15743 Aug 13 05:58	6° Mp 03'17	2°49'33
min. Earth dist.	15742 Aug 31 07:48	19° m 53'39	0.65429 AU	minimum elong	15743 Aug 13 07:41	5° m 57'44	2°48'50
morning rise	15742 Sep 04 03:18	15° m 58'38		min. Earth dist.	15743 Aug 14 17:07	4° Mp 09'18	0.67041 AU
desc. node direct	15742 Sep	14° Mp 08'43		morning rise	15743 Aug 18 09:01	30°RN 29°N36'55	
morning max el	15742 Sep 10 13:18 15742 Sep 23 22:04	13° Mp 21'08 21° Mp 12'23	27°01'15	morning rise direct	15743 Aug 18 19:15 15743 Aug 24 20:15	$29^{\circ} 0.36^{\circ} 33$ $27^{\circ} 0.01^{\circ} 26$	
morning max ei	15742 Sep 23 22:04 15742 Oct 01 13:39	0° ⊡	2/ 0113	desc. node	15743 Aug 24 20:15 15743 Aug 24 21:04	$27^{\circ} \Omega 01'26$ $27^{\circ} \Omega 01'26$	
	15742 Oct 01 13:39 15742 Oct 21 10:44	0° M		uese. Houe	15743 Aug 24 21:04 15743 Sep 01 06:28	0°m)	
morning set	15742 Oct 21 10:44 15742 Oct 29 13:11	บาแน 14° M 49'15		morning max el	15743 Sep 01 06:28 15743 Sep 06 09:25	0°البا 4°ا¶030'09	25°52'02
asc. node	15742 Nov 01 10:30	20°M29'29		morning max ci	15743 Sep 06 09.23 15743 Sep 25 23:07	0° ⊽	23 32 02
max. Earth dist.	15742 Nov 01 10.30 15742 Nov 02 18:10	20 1162929 23°ML08'54	1.33572 AU	morning set	15743 Oct 12 08:12	0 ≗ 27° £ 21'49	
max. Darui dist.	15742 Nov 06 01:51	23 11608 34 0° √	1.55572 AU	morning set	15743 Oct 12 08.12 15743 Oct 13 18:25	27 = 21 49 0° M	
	15/72 1107 00 01.31	~ ^		max. Earth dist.	15743 Oct 16 00:15	4° ጤ 14'19	1.35490 AU
superior conj	15742 Nov 07 01:32	2° ∡ 104'36	0°49'57	asc. node	15743 Oct 19 07:14	10°M38'54	1.55 170 110
minimum elong	15742 Nov 06 23:20	1° × 752'57			10, 10 Oct 17 07.14	10 HW303T	
	1 1.0. 00 2 3. 2 0	- 7. 0201	•				

superior conj	15743 Oct 21 19:54	15° M 43′07	0°22'56	morning set	15744 Sep 23 09:32	9° ≏ 07'49	
minimum elong	15743 Oct 21 18:36	15°M36'31	0°23'14	max. Earth dist.	15744 Sep 26 23:53	15° ≏ 30′00	1.37765 AU
	15743 Oct 28 17:56	0° ∡ ¹					
evening rise	15743 Oct 29 13:27	1° × 741'01		superior conj	15744 Oct 04 03:08	28° ≏ 49'32	-0°09'19
	15743 Nov 15 02:16	0°₹		minimum elong	15744 Oct 04 03:44	28° ≏ 52'26	0°08'52
evening max el	15743 Nov 16 19:37	1° る 50'47	20°22'55	behind sun begin	15744 Oct 03 22:01	28° £ 24'53	
desc. node	15743 Nov 20 18:06	5°る04'09	20 22 33	behind sun end	15744 Oct 04 09:26	29° ₽ 20'01	
		7°る16'18		ocimia sun cha		0°M	
retrograde	15743 Nov 27 17:14				15744 Oct 04 17:42		
evening set	15743 Nov 29 23:41	7° る 03'17		asc. node	15744 Oct 05 03:55	0° M .49'39	
inferior conj	15743 Dec 08 19:38	3° る 08'07		evening rise	15744 Oct 12 16:24	15°M45'00	
minimum elong	15743 Dec 08 09:58	3° る 22'19	5°03'54		15744 Oct 20 03:07	0° ∡ ¹	
min. Earth dist.	15743 Dec 10 07:22	2° る 15'39	0.54693 AU	evening max el	15744 Oct 29 08:50	13° ∡ ¹09'16	19°15'41
	15743 Dec 14 13:57	30°₽ ⋌ ¹		desc. node	15744 Nov 06 15:19	17° ∡ ¹45'42	
morning rise	15743 Dec 16 19:48	29° х 07′40		retrograde	15744 Nov 07 15:41	17° ∡ ¹48'55	
direct	15743 Dec 21 11:19	28° ∡ ¹21'11		evening set	15744 Nov 09 13:01	17° ∡ ³38'10	
	15743 Dec 28 02:34	0°ਰ		inferior conj	15744 Nov 18 01:34	13° ∡ ¹27'57	-3°33'46
morning max el	15744 Jan 03 22:59	4° る 58'35	22050112	minimum elong	15744 Nov 17 16:53	13° × 42'24	
•			23 30 13	_			
asc. node	15744 Jan 15 06:51	19° る 28'42		min. Earth dist.	15744 Nov 20 17:02	11° ∡ ′42'33	0.55846 AU
	15744 Jan 21 07:03	0° ≈		morning rise	15744 Nov 25 18:21	8° ∡ 756'40	
morning set	15744 Jan 28 03:27	13° ≈ 56′27		direct	15744 Dec 01 07:13	7° ∡ ¹46'28	
				morning max el	15744 Dec 15 08:28	14° ∡ ¹53'55	25°36'05
superior conj	15744 Feb 03 23:20	28° ≈ 48'12	1°30'31		15744 Dec 27 08:34	0°ರ	
minimum elong	15744 Feb 04 00:57	28° ≈ 56'56	1°30'54	asc. node	15745 Jan 01 04:03	7° る 56'51	
C	15744 Feb 04 12:34	0° ₩		morning set	15745 Jan 11 15:03	28° ⋜ 35'18	
max. Earth dist.	15744 Feb 06 16:35	4° ¥ 39'23	1.32756 AU		15745 Jan 12 06:43	0° ≈	
evening rise	15744 Feb 11 15:18	14°) 53'58	1.52750110		137 13 3411 12 00:13	0 / 0 /	
•		24°\(\frac{14}{4}\) 48'26			15745 I 10 00:20	12925152	1927/04
desc. node	15744 Feb 16 18:22			superior conj	15745 Jan 18 08:39	13°≈25'52	1°37'04
	15744 Feb 19 14:59	0° Υ		minimum elong	15745 Jan 18 09:15	13° ≈ 29′16	1°37'43
	15744 Mar 10 17:29	0°8		max. Earth dist.	15745 Jan 19 19:40	16° ≈ 39'31	1.31666 AU
evening max el	15744 Mar 16 16:41	6° 8 28'30	27°28'35	evening rise	15745 Jan 25 12:26	28° ≈ 53'49	
retrograde	15744 Mar 30 10:03	13° 8 59'49			15745 Jan 26 01:14	0° ∀	
evening set	15744 Apr 06 04:11	11° 8 32'40		desc. node	15745 Feb 02 15:01	14°) 42′34	
min. Earth dist.	15744 Apr 09 23:29	8° 8 09'13	0.64170 AU		15745 Feb 11 18:41	$0^{\circ}\mathbf{\Upsilon}$	
asc. node	15744 Apr 12 03:51	5° 8 51'28		evening max el	15745 Feb 27 02:50	19° Ƴ 18'10	27°34'15
inferior conj	15744 Apr 12 14:57	5° 8 21'59	0°08'45	retrograde	15745 Mar 13 01:49	26° Υ 45'11	27 3.13
•		5° 8 22'38	0°08'14	•	15745 Mar 19 21:42	24° Υ 30'33	
minimum elong	15744 Apr 12 14:42	_		evening set			0.62050 ATT
transit middle	15744 Apr 12 14:42	5° 8 22'38	0°08'14	min. Earth dist.	15745 Mar 23 15:55	21° Y '32'15	0.62058 AU
transit begin	15744 Apr 12 12:02	5° 8 29'42		inferior conj	15745 Mar 26 16:55	18° Ƴ 41'09	
transit end	15744 Apr 12 17:22	5° 8 15'35		minimum elong	15745 Mar 26 19:09	18° Ƴ 35'54	1°03'51
morning rise	15744 Apr 19 03:26	0° 8 01'13		asc. node	15745 Mar 30 01:14	15° Ƴ 45'32	
	15744 Apr 19 04:35	30° ŖƳ		morning rise	15745 Apr 02 19:42	13° Ƴ 37′29	
direct	15744 Apr 21 16:40	29° Y ′28′16		direct	15745 Apr 05 01:21	13° Ƴ 15′01	
	15744 Apr 24 04:38	0° ႘		morning max el	15745 Apr 11 18:33	16° Ƴ 38'24	17°47'39
morning max el	15744 Apr 28 01:04	2° 8 43'29	17°49'28	<i>y</i>	15745 Apr 21 06:46	0°8	
desc. node	15744 May 14 19:55	27° 8 51'21	17 19 20	morning set	15745 Apr 27 15:04	11° 8 03'31	
	•	28° 8 10'29		desc. node	•	18° 8 13'56	
morning set	15744 May 15 00:27			desc. node	15745 May 01 16:42		
	15744 May 16 02:28	Π \circ 0			15745 May 08 12:39	Π \circ 0	
	1001125	•••	100.415-		1551535 00 00		00.55:50
superior conj	15744 May 28 07:42	20° Ⅲ 08'55		superior conj	15745 May 09 03:48	1° Ⅱ 03'48	
minimum elong	15744 May 27 23:16	19° Ⅱ 34'56	1°34'30	minimum elong	15745 May 08 22:25	0° Ⅱ 41'10	0°57'44
max. Earth dist.	15744 Jun 02 09:06	28° Ⅱ 12'20	1.45255 AU	max. Earth dist.	15745 May 16 01:25	12° Ⅱ 25'36	1.43914 AU
	15744 Jun 03 12:27	0 \circ \odot		evening rise	15745 May 23 14:10	24° Ⅱ 19'35	
evening rise	15744 Jun 13 00:34	14°9543'34			15745 May 27 06:49	0 \circ \odot	
•	15744 Jun 23 03:32	$0^{\circ}\Omega$			15745 Jun 17 07:03	$0^{\circ}\Omega$	
asc. node	15744 Jul 09 02:28	21° Ω 42'04		evening max el	15745 Jun 23 09:46	7° Ω 02'15	21°17'48
evening max el	15744 Jul 10 11:46	23°Ω09'14	20°08'25	asc. node	15745 Jun 25 23:22	9° Ω 21'50	21 17 10
•			20 00 23				
retrograde	15744 Jul 18 05:08	27° Ω 32'23		retrograde	15745 Jul 02 04:02	$12^{\circ}\Omega 07'13$	
evening set	15744 Jul 22 04:35	26° Ω 01'32	200510-	evening set	15745 Jul 06 14:21	10° Ω 19'07	2000:-:
inferior conj	15744 Jul 27 11:14	19° Ω 59'40	3°05'07	inferior conj	15745 Jul 11 19:52	4°Ω06'28	3°08'54
minimum elong	15744 Jul 27 12:04	19° Ω 56′50	3°04'27	minimum elong	15745 Jul 11 19:43	4° Ω 06'56	3°08'10
min. Earth dist.	15744 Jul 28 08:27	18° Ω 47'26	0.68211 AU	min. Earth dist.	15745 Jul 12 03:40	3° Ω 39′16	0.68906 AU
morning rise	15744 Aug 01 19:11	13° Ω 35′20			15745 Jul 14 22:05	30° ℝ ∽	
direct	15744 Aug 07 09:05	11° Ω 09'05		morning rise	15745 Jul 17 00:51	27°5647'17	
desc. node	15744 Aug 10 18:28	11° Ω 54'08		direct	15745 Jul 22 02:43	25° © 35'34	
morning max el	15744 Aug 18 20:25	18° Ω 01'04	24°28'02	desc. node	15745 Jul 28 15:49	28°\$22'19	
	15744 Aug 28 22:08	0° m)	- : - : - : - : - : - : - : - : - : - :		15745 Jul 30 14:25	0° Ω	
	12/TT AUE 40 44.00	עוי ∨			10/70 Jul 30 14.43	000	
	15744 Sep 18 00:04	0∘ ত		morning max el	15745 Aug 01 07:56	1° Ω 39'28	22058145

	15745 Aug 22 20:13	0° m/		morning set	15746 Aug 15 16:18	29° Ω 45'08	
morning set	15745 Sep 04 12:59	19° m 57'30		C	15746 Aug 15 20:04	0° m)	
max. Earth dist.	15745 Sep 08 22:51	27° m 21'58	1.40162 AU	max. Earth dist.	15746 Aug 22 02:50	10° Mp $07'02$	1.42411 AU
	15745 Sep 10 11:34	0∘ ⊽					
		_		superior conj	15746 Aug 29 15:41	22° m 48'03	
superior conj	15745 Sep 16 19:13	11° Ω 14'41		minimum elong	15746 Aug 29 22:15	23° m 16'22	1°20'42
minimum elong	15745 Sep 16 22:41	11° Ω 30'32	0°44'29	1	15746 Sep 02 18:26	0° ⊽	
asc. node evening rise	15745 Sep 22 00:35 15745 Sep 26 11:28	20° £ 58'11 29° £ 27'36		asc. node evening rise	15746 Sep 08 21:12 15746 Sep 09 18:45	11° ♀ 00'12 12° ♀ 38'10	
evening rise	15745 Sep 26 18:15	29 = 2730		evening rise	15746 Sep 19 17:31	0°M	
evening max el	15745 Oct 12 10:37	25°M16'47	18°30'47	evening max el	15746 Sep 25 20:40	8°ML02'56	18°06'46
retrograde	15745 Oct 20 08:34	29°M17'26	10 30 .,	retrograde	15746 Oct 02 19:55	11°M37'13	10 00 10
evening set	15745 Oct 22 07:39	29°M03'25		evening set	15746 Oct 05 01:28	11° M 15'37	
desc. node	15745 Oct 24 12:35	28° ™ 16'41		desc. node	15746 Oct 11 09:56	7°ML05'32	
inferior conj	15745 Oct 30 04:26	24°M32'49	-1°49'10	inferior conj	15746 Oct 12 04:35	6°M23'49	-0°14'46
minimum elong	15745 Oct 30 00:06	24°M41'13	1°46'47	minimum elong	15746 Oct 12 04:05	6° M 24'56	0°14'08
min. Earth dist.	15745 Nov 02 09:17	22°M04'27	0.57680 AU	transit middle	15746 Oct 12 04:05	6° M 24'56	0°14'08
morning rise	15745 Nov 06 13:08	19°M24'33		transit begin	15746 Oct 12 02:27	6° M 28'37	
direct	15745 Nov 12 17:51	17°M47'21	26050140	transit end	15746 Oct 12 05:44	6°M21'14	0.50000 177
morning max el	15745 Nov 27 00:05 15745 Dec 01 09:12	25°M₁8'05 0°⊀	26°59'49	min. Earth dist.	15746 Oct 15 09:52	3°M30'29 0°M42'41	0.59890 AU
asc. node	15745 Dec 19 01:10	0 x · 27° x 700′34		morning rise	15746 Oct 19 03:27 15746 Oct 20 10:02	0 1164241 30°Ŗ ჲ	
asc. Houe	15745 Dec 19 01:10	27 メ ・00 34 0°る		direct	15746 Oct 25 17:22	28° £ 40'03	
morning set	15745 Dec 27 00:34	13°る04'23		uncet	15746 Oct 31 06:30	0°M	
morning sec	10, 10 15 27 00.5 1	15 00.25		morning max el	15746 Nov 08 23:42	6°M27'31	27°48'32
superior conj	15746 Jan 02 19:55	28° පි 06'05	1°37'32	C	15746 Nov 26 16:45	0° ∡ ¹	
minimum elong	15746 Jan 02 19:29	28° る 03'34	1°38'18	asc. node	15746 Dec 05 22:11	16° ∡ ¹29'41	
max. Earth dist.	15746 Jan 03 02:43	28° る 44'05	1.31100 AU	morning set	15746 Dec 11 06:06	27° ∡ 18′09	
	15746 Jan 03 16:17	0° ≈			15746 Dec 12 12:33	0°ප	
evening rise	15746 Jan 09 16:04	13° ≈ 08'38		max. Earth dist.	15746 Dec 17 10:14	10° る 45'25	1.31076 AU
	15746 Jan 18 03:25	0° ∀					
desc. node	15746 Jan 20 11:45	4°) € 12'40		superior conj	15746 Dec 18 07:12	12°る42'30	1°32'01
	15746 Feb 07 21:57	0° Υ 1° Υ 23'27	27005151	minimum elong	15746 Dec 18 05:47	12°る34'38 27°る32'14	1°32'44
evening max el retrograde	15746 Feb 09 07:51 15746 Feb 23 08:38	8° Y 40'30	27°05'51	evening rise	15746 Dec 24 23:57 15746 Dec 26 03:32	2/° ⊘ 32′14 0° ≈	
evening set	15746 Mar 02 00:02	6° Υ 46'06		desc. node	15747 Jan 07 08:31	0 ≈ 23°≈08'56	
min. Earth dist.	15746 Mar 05 22:12	4° Υ ′04'02	0.59816 AU	desc. node	15747 Jan 11 18:49	0° ∀	
inferior conj	15746 Mar 09 03:25	1° Y °25'47		evening max el	15747 Jan 22 05:16	12°) 36′18	26°02'51
minimum elong	15746 Mar 09 09:03	1° Y °14'12	2°27'22	retrograde	15747 Feb 05 04:12	19°) 40′19	
	15746 Mar 10 22:07	30° ₹ ₩		evening set	15747 Feb 11 07:30	18° ¥ 11'44	
morning rise	15746 Mar 16 21:35	26°) 41′43		min. Earth dist.	15747 Feb 15 18:26		0.57658 AU
asc. node	15746 Mar 16 22:37	26° ¥ 41′04		inferior conj	15747 Feb 18 18:47	13° ¥ 25′29	
direct	15746 Mar 18 22:01	26° ¥ 26′01		minimum elong	15747 Feb 19 03:33	13°) €09'54	3°56'14
	15746 Mar 26 05:12	0° Υ	10004120	morning rise	15747 Feb 27 02:41	9°) €02'47	
morning max el	15746 Mar 26 08:50	0° Υ 08'50 24° Υ 43'17	18°04'29	direct	15747 Mar 01 02:17	8° ¥ 50'06 9° ¥ 15'31	
morning set	15746 Apr 10 22:44 15746 Apr 13 19:01	0° 8		asc. node morning max el	15747 Mar 03 19:59 15747 Mar 09 15:57	13° ¥ 02'56	18°41'46
desc. node	15746 Apr 18 13:26	8° 8 43'37		morning max ci	15747 Mar 21 02:04	13 γ (02 30	18 41 40
dese. node	13 / 10 11p1 10 13.20	0 0 13 37		morning set	15747 Mar 25 18:18	8° Υ ′54'21	
superior conj	15746 Apr 20 23:08	13° 8 01'47	-0°19'41	<i>3 3 3 3 3 3 3 3 3 3</i>			
minimum elong	15746 Apr 20 21:29	12° 8 54'27	0°19'55	superior conj	15747 Apr 03 14:19	25° Y ′53'07	0°15'12
max. Earth dist.	15746 Apr 28 13:13	26° 8 05'10	1.42049 AU	minimum elong	15747 Apr 03 15:19	25° Ƴ 57'48	0°14'44
	15746 Apr 30 22:01	Π °0		behind sun begin	15747 Apr 03 12:40	25° Y 45'24	
evening rise	15746 May 03 19:22	4° Ⅱ 40'59		behind sun end	15747 Apr 03 17:58	26° Y 10′12	
	15746 May 20 13:12	0°®		desc. node	15747 Apr 05 10:06	29° Y 16′25	
evening max el	15746 Jun 06 02:55	20°555'50	22°36'05	E d F	15747 Apr 05 19:34	0°8	1 20050 444
asc. node	15746 Jun 12 20:20 15746 Jun 16 01:15	26°\$00'32 26°\$45'07		max. Earth dist. evening rise	15747 Apr 10 21:12	9° 8 04'56 15° 8 58'04	1.39850 AU
retrograde evening set	15746 Jun 16 01:15 15746 Jun 20 22:59	26°9945'07 24°9941'11		evening rise	15747 Apr 14 21:36 15747 Apr 23 14:13	15° O 58'04 0°耳	
inferior conj	15746 Jun 26 05:47	18°9519'36	3°01'55		15747 Apr 25 14.15 15747 May 15 06:02	0°©	
minimum elong	15746 Jun 26 04:44	18°923'14	3°01'00	evening max el	15747 May 19 17:18	4°950'59	23°57'35
min. Earth dist.	15746 Jun 26 00:31	18° © 37'57	0.69120 AU	retrograde	15747 May 30 19:28	11°520'59	
morning rise	15746 Jul 01 10:20	12° © 07'38		asc. node	15747 May 30 17:21	11° © 20'57	
direct	15746 Jul 05 23:58	10° © 14'02		evening set	15747 Jun 05 04:54	9° © 03'31	
morning max el	15746 Jul 14 22:35	15° © 25'48	21°32'41	min. Earth dist.	15747 Jun 09 20:51	3° 5 37'41	0.68847 AU
desc. node	15746 Jul 15 13:06	16° © 02'43		inferior conj	15747 Jun 10 15:05	2° © 35'36	2°44'32
	15746 Jul 26 17:22	0 \circ Ω		minimum elong	15747 Jun 10 13:20	2° © 41'35	2°43'23

1°耳03'02 1°35'33

minimum elong

15749 May 08 21:58

15748 May 30 09:20

morning rise

10°**I**I56′04

	15749 May 09 18:44	30°R ∀		morning rise	15750 Apr 29 00:28	9° 8 22'04	
morning rise	15749 May 14 19:01	25° 8 14'29		direct	15750 Apr 29 00.28 15750 May 01 18:32	8° 8 41'42	
direct	15749 May 17 22:37	24° 8 18'36		morning max el	15750 May 08 01:54	11° 8 57'49	17°58'25
morning max el	•	27° 8 44'58	18°27'50	morning max er	-	0° Ⅱ	17 38 23
morning max er	15749 May 24 10:19	27 3 44 38 0° Ⅱ	18 27 30	1 1	15750 May 20 20:55	0 П 3°П33'40	
1 1-	15749 May 26 12:45	13° Д 31'33		desc. node	15750 May 23 01:20	3°Д33'40 8°Д34'23	
desc. node	15749 Jun 05 04:25			morning set	15750 May 26 02:42		
morning set	15749 Jun 14 02:31	27° Ⅱ 29'45			15750 Jun 08 09:00	0ං ව	
	15749 Jun 15 16:39	0ං ව			15750 1 00 10 50	10642110	1050100
				superior conj	15750 Jun 09 10:50	1°542'10	
superior conj	15749 Jun 29 21:48	22°515'26		minimum elong	15750 Jun 09 02:18	1°508'29	1°52'32
minimum elong	15749 Jun 29 18:01	22°500'38		max. Earth dist.	15750 Jun 12 22:10	7°509'51	1.45730 AU
max. Earth dist.	15749 Jun 30 02:06	22°932'11	1.45976 AU	evening rise	15750 Jun 25 12:36	26°540'32	
	15749 Jul 04 20:59	0 \circ Ω			15750 Jun 27 16:39	0 \circ Ω	
evening rise	15749 Jul 15 18:06	17° Ω 03'11		greatest brilliancy	15750 Jul 09 03:20	17° Ω 15'42	-0.7m
	15749 Jul 24 00:03	0° m		asc. node	15750 Jul 17 07:55	28° Ω 31'36	
greatest brilliancy	15749 Jul 24 12:20	0° ™ 47'39	-0.8m		15750 Jul 18 13:23	0° m)	
asc. node	15749 Jul 30 11:09	9° ™ 44'29		evening max el	15750 Jul 20 21:01	2°m/30'38	19°34'24
evening max el	15749 Aug 06 13:31	18° Mp 38′12	18°46'48	retrograde	15750 Jul 28 02:46	6° Mp 33′25	
retrograde	15749 Aug 13 04:49	22° Mp 14'47		evening set	15750 Jul 31 20:14	5° Mp 12′54	
evening set	15749 Aug 16 12:22	21°M/11'46			15750 Aug 05 16:09	30° R Ω	
inferior conj	15749 Aug 22 02:29	15° m 29'59	2°34'31	inferior conj	15750 Aug 06 04:47	29° Ω 18'13	2°57'39
minimum elong	15749 Aug 22 04:35	15°₩23'25	2°33'46	minimum elong	15750 Aug 06 06:08	29° Ω 13'42	2°56'59
min. Earth dist.	15749 Aug 23 21:50	13°Mp 14'36	0.66162 AU	min. Earth dist.	15750 Aug 07 10:03	27° Ω 41'04	0.67595 AU
morning rise	15749 Aug 27 19:50	9° ™ 04'03		morning rise	15750 Aug 11 15:30	22° Ω 52′12	
desc. node	15749 Sep 01 02:10	6° Mp41'37		direct	15750 Aug 17 12:04	20° Ω 19'32	
direct	15749 Sep 03 02:15	6° Mg 26′17		desc. node	15750 Aug 18 23:36	20° Ω 28′07	
morning max el	15749 Sep 16 03:48	14° Mp 10'43	26°34'10	morning max el	15750 Aug 29 14:49	27° Ω 34'35	25°17'26
	15749 Sep 29 01:33	0∘ ⊽			15750 Aug 31 21:41	0° m)	
	15749 Oct 17 20:59	0° M ₊			15750 Sep 22 17:22	0∘ ⊽	
morning set	15749 Oct 21 23:52	7° M 35'04		morning set	15750 Oct 04 11:54	19° ≏ 49'17	
max. Earth dist.	15749 Oct 25 22:34	15° ™ 13'07	1.34324 AU	max. Earth dist.	15750 Oct 08 00:55	26° ≏ 17'57	1.36423 AU
asc. node	15749 Oct 26 12:44	16°M23'26			15750 Oct 10 00:03	0° M .	
				asc. node	15750 Oct 13 09:27	6°MJ34'04	
superior conj	15749 Oct 30 21:22	25°M16'28	0°39'11				
minimum elong	15749 Oct 30 19:25	25°M06'25	0°39'28	superior conj	15750 Oct 14 11:29	8°M42'46	0°09'51
Č	15749 Nov 02 03:31	0° ⊼ ¹		minimum elong	15750 Oct 14 10:51	8° M 39'40	0°10'11
evening rise	15749 Nov 07 06:30	10° ∡ 49'59		_	15750 Oct 14 05:52	8°M14'55	
evening rise	15749 Nov 07 06:30 15749 Nov 17 03:39	10° ҂ 49'59 0°る		behind sun begin behind sun end		8° M 14'55	
C		0°ರ	21°11'33	behind sun begin behind sun end	15750 Oct 14 05:52		
evening max el	15749 Nov 17 03:39 15749 Nov 26 19:19	0°る 13°る04'27	21°11'33	behind sun begin	15750 Oct 14 05:52 15750 Oct 14 15:51 15750 Oct 22 12:35	8°M14'55 9°M04'28	
evening max el desc. node	15749 Nov 17 03:39 15749 Nov 26 19:19 15749 Nov 27 23:23	0°ರ	21°11'33	behind sun begin behind sun end evening rise	15750 Oct 14 05:52 15750 Oct 14 15:51	8°M14'55 9°M04'28 25°M02'39	19°51'38
evening max el desc. node retrograde	15749 Nov 17 03:39 15749 Nov 26 19:19 15749 Nov 27 23:23 15749 Dec 08 15:03	0°ප 13°ප04'27 14°ප10'23	21°11'33	behind sun begin behind sun end	15750 Oct 14 05:52 15750 Oct 14 15:51 15750 Oct 22 12:35 15750 Oct 24 23:27 15750 Nov 09 00:16	8°M14'55 9°M04'28 25°M02'39 0°×7	
evening max el desc. node retrograde evening set	15749 Nov 17 03:39 15749 Nov 26 19:19 15749 Nov 27 23:23 15749 Dec 08 15:03 15749 Dec 11 09:05	0°පි 13°පි04'27 14°පි10'23 18°පි55'39 18°ප37'59		behind sun begin behind sun end evening rise evening max el desc. node	15750 Oct 14 05:52 15750 Oct 14 15:51 15750 Oct 22 12:35 15750 Oct 24 23:27	8°M14'55 9°M04'28 25°M02'39 0°⊀ 23°⊀54'14	
evening max el desc. node retrograde evening set inferior conj	15749 Nov 17 03:39 15749 Nov 26 19:19 15749 Nov 27 23:23 15749 Dec 08 15:03 15749 Dec 11 09:05 15749 Dec 20 03:28	0° පි 13° පි04'27 14° පි10'23 18° පි55'39 18° පි37'59 14° පි46'59	-5°43'23	behind sun begin behind sun end evening rise evening max el	15750 Oct 14 05:52 15750 Oct 14 15:51 15750 Oct 22 12:35 15750 Oct 24 23:27 15750 Nov 09 00:16 15750 Nov 14 20:32 15750 Nov 19 04:56	8° M.14'55 9° M.04'28 25° M.02'39 0° ₹ 23° ₹ 54'14 28° ₹ 04'43 28° ₹ 59'22	
evening max el desc. node retrograde evening set inferior conj minimum elong	15749 Nov 17 03:39 15749 Nov 26 19:19 15749 Nov 27 23:23 15749 Dec 08 15:03 15749 Dec 11 09:05 15749 Dec 20 03:28 15749 Dec 19 20:33	0°පි 13°පි04'27 14°පි10'23 18°පි55'39 18°ප37'59	-5°43'23 5°41'35	behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set	15750 Oct 14 05:52 15750 Oct 14 15:51 15750 Oct 22 12:35 15750 Oct 24 23:27 15750 Nov 09 00:16 15750 Nov 14 20:32 15750 Nov 19 04:56 15750 Nov 21 05:53	8° M.14'55 9° M.04'28 25° M.02'39 0° ₹ 23° ₹ 54'14 28° ₹ 04'43 28° ₹ 59'22 28° ₹ 48'06	19°51'38
evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist.	15749 Nov 17 03:39 15749 Nov 26 19:19 15749 Nov 27 23:23 15749 Dec 08 15:03 15749 Dec 11 09:05 15749 Dec 20 03:28 15749 Dec 19 20:33 15749 Dec 20 18:25	0°ට 13°ට04'27 14°ට10'23 18°ට55'39 18°ට37'59 14°ට46'59 14°ට56'45	-5°43'23	behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set inferior conj	15750 Oct 14 05:52 15750 Oct 14 15:51 15750 Oct 22 12:35 15750 Oct 24 23:27 15750 Nov 09 00:16 15750 Nov 14 20:32 15750 Nov 19 04:56 15750 Nov 21 05:53 15750 Nov 30 00:11	8° M.14'55 9° M.04'28 25° M.02'39 0° 🖈 23° 🛪 54'14 28° 🛪 04'43 28° 🛪 59'22 28° 🛪 48'06 24° 🛪 47'59	19°51'38
evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	15749 Nov 17 03:39 15749 Nov 26 19:19 15749 Nov 27 23:23 15749 Dec 08 15:03 15749 Dec 11 09:05 15749 Dec 20 03:28 15749 Dec 19 20:33 15749 Dec 20 18:25 15749 Dec 28 08:19	0°ට 13°ට04'27 14°ට10'23 18°ට55'39 18°ට37'59 14°ට46'59 14°ට56'45 14°ට25'51	-5°43'23 5°41'35	behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set inferior conj minimum elong	15750 Oct 14 05:52 15750 Oct 14 15:51 15750 Oct 22 12:35 15750 Oct 24 23:27 15750 Nov 09 00:16 15750 Nov 14 20:32 15750 Nov 19 04:56 15750 Nov 21 05:53 15750 Nov 30 00:11 15750 Nov 29 14:10	8°M.14'55 9°M.04'28 25°M.02'39 0° \nabla* 23° \nabla*54'14 28° \nabla*04'43 28° \nabla*59'22 28° \nabla*48'06 24° \nabla*47'59 25° \nabla*03'22	19°51'38 -4°30'46 4°27'01
evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	15749 Nov 17 03:39 15749 Nov 26 19:19 15749 Nov 27 23:23 15749 Dec 08 15:03 15749 Dec 11 09:05 15749 Dec 20 03:28 15749 Dec 19 20:33 15749 Dec 20 18:25 15749 Dec 28 08:19 15750 Jan 01 09:22	0°ට 13°ට04'27 14°ට10'23 18°ට55'39 18°ට37'59 14°ට46'59 14°ට56'45 14°ට55'51 10°ට56'05 10°ට20'45	-5°43'23 5°41'35 0.54414 AU	behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist.	15750 Oct 14 05:52 15750 Oct 14 15:51 15750 Oct 22 12:35 15750 Oct 24 23:27 15750 Nov 09 00:16 15750 Nov 14 20:32 15750 Nov 19 04:56 15750 Nov 21 05:53 15750 Nov 29 14:10 15750 Dec 02 01:35	8°M.14'55 9°M.04'28 25°M.02'39 0° \nabla* 23° \nabla*54'14 28° \nabla*04'43 28° \nabla*59'22 28° \nabla*48'06 24° \nabla*47'59 25° \nabla*03'22 23° \nabla*32'09	19°51'38 -4°30'46
evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	15749 Nov 17 03:39 15749 Nov 26 19:19 15749 Nov 27 23:23 15749 Dec 08 15:03 15749 Dec 11 09:05 15749 Dec 20 03:28 15749 Dec 19 20:33 15749 Dec 20 18:25 15749 Dec 28 08:19 15750 Jan 01 09:22 15750 Jan 14 08:28	0°궁 13°♂04'27 14°♂10'23 18°♂55'39 18°♂37'59 14°♂46'59 14°♂56'45 14°♂25'51 10°♂56'05 10°♂20'45 16°♂38'52	-5°43'23 5°41'35 0.54414 AU	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	15750 Oct 14 05:52 15750 Oct 14 15:51 15750 Oct 22 12:35 15750 Oct 24 23:27 15750 Nov 09 00:16 15750 Nov 14 20:32 15750 Nov 19 04:56 15750 Nov 21 05:53 15750 Nov 29 14:10 15750 Dec 02 01:35 15750 Dec 07 21:07	8° 11.4'55 9° 11.04'28 25° 11.02'39 0° 12.23° 12.54'14 28° 12.24'3.24'14 28° 12.24'3.24'06 24° 12.24'3.24'59 25° 12.23° 13.2'09 20° 12.36'04	19°51'38 -4°30'46 4°27'01
evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	15749 Nov 17 03:39 15749 Nov 26 19:19 15749 Nov 27 23:23 15749 Dec 08 15:03 15749 Dec 11 09:05 15749 Dec 20 03:28 15749 Dec 19 20:33 15749 Dec 20 18:25 15749 Dec 28 08:19 15750 Jan 01 09:22 15750 Jan 14 08:28 15750 Jan 22 12:03	0°පි 13°පි04'27 14°පි10'23 18°පි55'39 18°පි37'59 14°පි46'59 14°පි56'45 14°පි25'51 10°පි56'05 10°පි20'45 16°ප38'52 26°ප33'11	-5°43'23 5°41'35 0.54414 AU	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	15750 Oct 14 05:52 15750 Oct 14 15:51 15750 Oct 22 12:35 15750 Oct 24 23:27 15750 Nov 09 00:16 15750 Nov 14 20:32 15750 Nov 19 04:56 15750 Nov 21 05:53 15750 Nov 29 14:10 15750 Dec 02 01:35 15750 Dec 07 21:07 15750 Dec 12 22:39	8° 11.4'55 9° 11.04'28 25° 11.02'39 0° 12.23° 12.54'14 28° 12.24'3.24'14 28° 12.25'22 28° 12.24'3.24'59 25° 12.22'3.21'09 20° 12.36'04 19° 12.39'43	19°51'38 -4°30'46 4°27'01 0.55086 AU
evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	15749 Nov 17 03:39 15749 Nov 26 19:19 15749 Nov 27 23:23 15749 Dec 08 15:03 15749 Dec 11 09:05 15749 Dec 20 03:28 15749 Dec 19 20:33 15749 Dec 20 18:25 15749 Dec 28 08:19 15750 Jan 01 09:22 15750 Jan 14 08:28 15750 Jan 22 12:03 15750 Jan 24 17:51	0°ප 13°පි04'27 14°පි10'23 18°පි55'39 18°පි37'59 14°පි46'59 14°පි56'45 14°පි25'51 10°පි56'05 10°පි20'45 16°පි38'52 26°ප33'11 0°≈	-5°43'23 5°41'35 0.54414 AU	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	15750 Oct 14 05:52 15750 Oct 14 15:51 15750 Oct 22 12:35 15750 Oct 24 23:27 15750 Nov 09 00:16 15750 Nov 14 20:32 15750 Nov 19 04:56 15750 Nov 21 05:53 15750 Nov 29 14:10 15750 Dec 02 01:35 15750 Dec 07 21:07 15750 Dec 12 22:39 15750 Dec 26 17:03	8°M.14'55 9°M.04'28 25°M.02'39 0° 🖈 23° 🛪 54'14 28° 🛪 '04'43 28° 🛪 '59'22 28° 🛪 '48'06 24° 🛪 '47'59 25° 🛪 '03'22 23° 🛪 '32'09 20° 🛪 '36'04 19° 🛪 '39'43 26° 🛪 '30'53	19°51'38 -4°30'46 4°27'01
evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	15749 Nov 17 03:39 15749 Nov 26 19:19 15749 Nov 27 23:23 15749 Dec 08 15:03 15749 Dec 11 09:05 15749 Dec 20 03:28 15749 Dec 19 20:33 15749 Dec 20 18:25 15749 Dec 28 08:19 15750 Jan 01 09:22 15750 Jan 14 08:28 15750 Jan 22 12:03 15750 Jan 24 17:51 15750 Feb 05 17:40	0°පි 13°පි04'27 14°පි10'23 18°පි55'39 18°පි37'59 14°පි46'59 14°පි56'45 14°පි25'51 10°පි56'05 10°පි20'45 16°පි38'52 26°පි33'11 0°æ 22°≈50'03	-5°43'23 5°41'35 0.54414 AU	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 morning max el	15750 Oct 14 05:52 15750 Oct 14 15:51 15750 Oct 22 12:35 15750 Oct 24 23:27 15750 Nov 09 00:16 15750 Nov 14 20:32 15750 Nov 19 04:56 15750 Nov 21 05:53 15750 Nov 29 14:10 15750 Dec 02 01:35 15750 Dec 07 21:07 15750 Dec 12 22:39 15750 Dec 26 17:03 15750 Dec 30 01:00	8° M.14'55 9° M.04'28 25° M.02'39 0° औ 23° औ54'14 28° औ59'22 28° औ48'06 24° औ47'59 25° औ03'22 23° औ32'09 20° औ36'04 19° औ39'43 26° औ30'53 0° ጜ	19°51'38 -4°30'46 4°27'01 0.55086 AU
evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	15749 Nov 17 03:39 15749 Nov 26 19:19 15749 Nov 27 23:23 15749 Dec 08 15:03 15749 Dec 11 09:05 15749 Dec 20 03:28 15749 Dec 19 20:33 15749 Dec 20 18:25 15749 Dec 28 08:19 15750 Jan 01 09:22 15750 Jan 14 08:28 15750 Jan 22 12:03 15750 Jan 24 17:51	0°ප 13°පි04'27 14°පි10'23 18°පි55'39 18°පි37'59 14°පි46'59 14°පි56'45 14°පි25'51 10°පි56'05 10°පි20'45 16°පි38'52 26°ප33'11 0°≈	-5°43'23 5°41'35 0.54414 AU	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	15750 Oct 14 05:52 15750 Oct 14 15:51 15750 Oct 22 12:35 15750 Oct 24 23:27 15750 Nov 09 00:16 15750 Nov 14 20:32 15750 Nov 19 04:56 15750 Nov 21 05:53 15750 Nov 29 14:10 15750 Dec 02 01:35 15750 Dec 02 01:35 15750 Dec 12 22:39 15750 Dec 26 17:03 15750 Dec 30 01:00 15751 Jan 09 09:18	8° 11.14'55 9° 11.04'28 25° 11.02'39 0° 12.23° 12.25° 11.4 28° 12.25° 12.22 28° 12.25° 12.22 28° 12.25° 12.22 28° 12.25° 12.22 29° 12.23° 12.22 20° 12.23° 13.21 20° 12.23° 12.22 20° 12.23° 12.2	19°51'38 -4°30'46 4°27'01 0.55086 AU
evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	15749 Nov 17 03:39 15749 Nov 26 19:19 15749 Nov 27 23:23 15749 Dec 08 15:03 15749 Dec 11 09:05 15749 Dec 20 03:28 15749 Dec 19 20:33 15749 Dec 20 18:25 15749 Dec 28 08:19 15750 Jan 01 09:22 15750 Jan 14 08:28 15750 Jan 22 12:03 15750 Jan 24 17:51 15750 Feb 05 17:40 15750 Feb 09 01:44	0°云 13°云04'27 14°云10'23 18°云55'39 18°云37'59 14°云46'59 14°云56'45 14°云25'51 10°云56'05 10°云20'45 16°云38'52 26°云33'11 0°≈ 22°≈50'03 0°光	-5°43'23 5°41'35 0.54414 AU 22°46'49	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 morning max el asc. node	15750 Oct 14 05:52 15750 Oct 24 15:51 15750 Oct 22 12:35 15750 Oct 24 23:27 15750 Nov 09 00:16 15750 Nov 14 20:32 15750 Nov 19 04:56 15750 Nov 21 05:53 15750 Nov 29 14:10 15750 Dec 02 01:35 15750 Dec 07 21:07 15750 Dec 12 22:39 15750 Dec 26 17:03 15750 Dec 30 01:00 15751 Jan 09 09:18 15751 Jan 17 15:37	8° \mathbb{\pi}.14'55 9° \mathbb{\pi}.04'28 25° \mathbb{\pi}.02'39 0° \mathbb{\pi}. 23° \mathbb{\pi}.54'14 28° \mathbb{\pi}.04'43 28° \mathbb{\pi}.59'22 28° \mathbb{\pi}.44'59 25° \mathbb{\pi}.03'22 23° \mathbb{\pi}.32'09 20° \mathbb{\pi}.36'04 19° \mathbb{\pi}.30'53 0° \mathbb{\pi}. 14° \mathbb{\pi}.35'16 0° \mathbb{\pi}.	19°51'38 -4°30'46 4°27'01 0.55086 AU
evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	15749 Nov 17 03:39 15749 Nov 26 19:19 15749 Nov 27 23:23 15749 Dec 08 15:03 15749 Dec 11 09:05 15749 Dec 20 03:28 15749 Dec 19 20:33 15749 Dec 20 18:25 15749 Dec 28 08:19 15750 Jan 01 09:22 15750 Jan 22 12:03 15750 Jan 24 17:51 15750 Feb 05 17:40 15750 Feb 09 01:44	0°云 13°云04'27 14°云10'23 18°云55'39 18°云37'59 14°云46'59 14°云56'45 14°云25'51 10°云56'05 10°云20'45 16°云38'52 26°云33'11 0°≈ 22°≈50'03 0°光 7°光48'43	-5°43'23 5°41'35 0.54414 AU 22°46'49	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 morning max el	15750 Oct 14 05:52 15750 Oct 14 15:51 15750 Oct 22 12:35 15750 Oct 24 23:27 15750 Nov 09 00:16 15750 Nov 14 20:32 15750 Nov 19 04:56 15750 Nov 21 05:53 15750 Nov 29 14:10 15750 Dec 02 01:35 15750 Dec 02 01:35 15750 Dec 12 22:39 15750 Dec 26 17:03 15750 Dec 30 01:00 15751 Jan 09 09:18	8° 11.14'55 9° 11.04'28 25° 11.02'39 0° 12.23° 12.25° 11.4 28° 12.25° 12.22 28° 12.25° 12.22 28° 12.25° 12.22 28° 12.25° 12.22 29° 12.23° 12.22 20° 12.23° 13.21 20° 12.23° 12.22 20° 12.23° 12.2	19°51'38 -4°30'46 4°27'01 0.55086 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 evening rise desc. node	15749 Nov 17 03:39 15749 Nov 26 19:19 15749 Nov 27 23:23 15749 Dec 08 15:03 15749 Dec 11 09:05 15749 Dec 20 03:28 15749 Dec 19 20:33 15749 Dec 20 18:25 15749 Dec 28 08:19 15750 Jan 01 09:22 15750 Jan 14 08:28 15750 Jan 22 12:03 15750 Jan 22 17:51 15750 Feb 05 17:40 15750 Feb 09 01:44 15750 Feb 12 16:49 15750 Feb 12 18:54 15750 Feb 12 18:54 15750 Feb 20 17:57 15750 Feb 23 23:53 15750 Feb 23 16:34 15750 Mar 14 00:01 15750 Mar 27 09:54 15750 Apr 09 22:24 15750 Apr 09 09:01	0°云 13°云04'27 14°云10'23 18°云55'39 18°云57'59 14°云46'59 14°云56'45 14°云25'51 10°云56'05 10°云20'45 16°云38'52 26°云33'11 0°≈ 22°≈50'03 0°光 7°光48'43 7°光59'49 15°光09'29 24°光21'27 0°Ƴ34'19 0°Ƴ 0°℧ 16°℧10'40 23°℧42'04 21°℧11'12 17°℧34'08	-5°43'23 5°41'35 0.54414 AU 22°46'49 1°23'56 1°24'06 1.33601 AU 27°11'38	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 morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	15750 Oct 14 05:52 15750 Oct 14 15:51 15750 Oct 22 12:35 15750 Oct 24 23:27 15750 Nov 09 00:16 15750 Nov 14 20:32 15750 Nov 19 04:56 15750 Nov 21 05:53 15750 Nov 20 00:11 15750 Nov 29 14:10 15750 Dec 02 01:35 15750 Dec 07 21:07 15750 Dec 12 22:39 15750 Dec 26 17:03 15750 Dec 26 17:03 15750 Dec 30 01:00 15751 Jan 09 09:18 15751 Jan 17 15:37 15751 Jan 21 05:40 15751 Jan 28 00:05 15751 Jan 28 01:18 15751 Jan 30 03:58 15751 Jan 31 12:32 15751 Feb 04 10:18 15751 Feb 10 20:32 15751 Feb 16 03:49 15751 Mar 09 22:12 15751 Mar 10 14:30	8° \mathbb{\pi}.14'55 9° \mathbb{\pi}.04'28 25° \mathbb{\pi}.02'39 0° \mathbb{\pi}. 23° \mathbb{\pi}.54'14 28° \mathbb{\pi}.04'43 28° \mathbb{\pi}.59'22 28° \mathbb{\pi}.447'59 25° \mathbb{\pi}.03'22 23° \mathbb{\pi}.32'09 20° \mathbb{\pi}.36'04 19° \mathbb{\pi}.39'43 26° \mathbb{\pi}.30'53 0° \mathbb{\pi}. 14° \mathbb{\pi}.35'16 0° \mathbb{\pi}. 7° \mathbb{\pi}.31'52 22° \mathbb{\pi}.21'52 22° \mathbb{\pi}.28'30 27° \mathbb{\pi}.04'47 0° \mathbb{\pi}. 8° \mathbb{\pi}.10'05 20° \mathbb{\pi}.38'51 0° \mathbb{\pi}. 29° \mathbb{\pi}.21'34 0° \mathbb{\pi}.	19°51'38 -4°30'46 4°27'01 0.55086 AU 24°36'44 1°34'02 1°34'33 1.32233 AU
evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist.	15749 Nov 17 03:39 15749 Nov 26 19:19 15749 Nov 27 23:23 15749 Dec 08 15:03 15749 Dec 11 09:05 15749 Dec 12 03:28 15749 Dec 19 20:33 15749 Dec 20 18:25 15749 Dec 28 08:19 15750 Jan 01 09:22 15750 Jan 14 08:28 15750 Jan 22 12:03 15750 Jan 24 17:51 15750 Feb 05 17:40 15750 Feb 09 01:44 15750 Feb 12 16:49 15750 Feb 12 18:54 15750 Feb 12 18:54 15750 Feb 20 17:57 15750 Feb 23 23:53 15750 Feb 23 16:34 15750 Mar 14 00:01 15750 Mar 27 09:54 15750 Apr 09 22:24 15750 Apr 09 09:01 15750 Apr 20 09:01 15750 Apr 20 09:01	0°云 13°云04'27 14°云10'23 18°云55'39 18°云37'59 14°云46'59 14°云56'45 14°云25'51 10°云56'05 10°云20'45 16°云38'52 26°云33'11 0°≈ 22°≈50'03 0°光 7°光48'43 7°光59'49 15°光09'29 24°光21'27 0°Ƴ34'19 0°Ƴ 0°路 16°엉10'40 23°엉42'04 21°엉11'12 17°엉34'08 17°엉30'17	-5°43'23 5°41'35 0.54414 AU 22°46'49 1°23'56 1°24'06 1.33601 AU 27°11'38	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 morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	15750 Oct 14 05:52 15750 Oct 14 15:51 15750 Oct 22 12:35 15750 Oct 24 23:27 15750 Nov 09 00:16 15750 Nov 14 20:32 15750 Nov 19 04:56 15750 Nov 21 05:53 15750 Nov 20 00:11 15750 Nov 29 14:10 15750 Dec 02 01:35 15750 Dec 07 21:07 15750 Dec 12 22:39 15750 Dec 26 17:03 15750 Dec 30 01:00 15751 Jan 09 09:18 15751 Jan 17 15:37 15751 Jan 28 00:05 15751 Jan 28 00:05 15751 Jan 28 01:18 15751 Jan 30 03:58 15751 Jan 31 12:32 15751 Feb 04 10:18 15751 Feb 10 20:32 15751 Feb 10 20:32 15751 Mar 09 22:12 15751 Mar 10 14:30 15751 Mar 23 18:37	8° \mathbb{\pi}.14'55 9° \mathbb{\pi}.04'28 25° \mathbb{\pi}.02'39 0° \mathbb{\pi}. 23° \mathbb{\pi}.54'14 28° \mathbb{\pi}.04'43 28° \mathbb{\pi}.59'22 28° \mathbb{\pi}.44'759 25° \mathbb{\pi}.03'22 23° \mathbb{\pi}.32'09 20° \mathbb{\pi}.36'04 19° \mathbb{\pi}.39'43 26° \mathbb{\pi}.30'53 0° \mathbb{\pi}. 14° \mathbb{\pi}.35'16 0° \mathbb{\pi}. 7° \mathbb{\pi}.31'52 22° \mathbb{\pi}.21'52 22° \mathbb{\pi}.28'30 27° \mathbb{\pi}.04'47 0° \mathbb{\pi}. 8° \mathbb{\pi}.10'05 20° \mathbb{\pi}.38'51 0° \mathbb{\pi}. 29° \mathbb{\pi}.21'34 0° \mathbb{\pi}. 6° \mathbb{\pi}.51'25	19°51'38 -4°30'46 4°27'01 0.55086 AU 24°36'44 1°34'02 1°34'33 1.32233 AU
evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening rise desc. node	15749 Nov 17 03:39 15749 Nov 26 19:19 15749 Nov 27 23:23 15749 Dec 08 15:03 15749 Dec 11 09:05 15749 Dec 20 03:28 15749 Dec 19 20:33 15749 Dec 20 18:25 15749 Dec 28 08:19 15750 Jan 01 09:22 15750 Jan 14 08:28 15750 Jan 22 12:03 15750 Jan 22 17:51 15750 Feb 05 17:40 15750 Feb 09 01:44 15750 Feb 12 16:49 15750 Feb 12 18:54 15750 Feb 12 18:54 15750 Feb 20 17:57 15750 Feb 23 23:53 15750 Feb 23 16:34 15750 Mar 14 00:01 15750 Mar 27 09:54 15750 Apr 09 22:24 15750 Apr 09 09:01	0°云 13°云04'27 14°云10'23 18°云55'39 18°云57'59 14°云46'59 14°云56'45 14°云25'51 10°云56'05 10°云20'45 16°云38'52 26°云33'11 0°≈ 22°≈50'03 0°光 7°光48'43 7°光59'49 15°光09'29 24°光21'27 0°Ƴ34'19 0°Ƴ 0°℧ 16°℧10'40 23°℧42'04 21°℧11'12 17°℧34'08	-5°43'23 5°41'35 0.54414 AU 22°46'49 1°23'56 1°24'06 1.33601 AU 27°11'38	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 morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	15750 Oct 14 05:52 15750 Oct 14 15:51 15750 Oct 22 12:35 15750 Oct 24 23:27 15750 Nov 09 00:16 15750 Nov 14 20:32 15750 Nov 19 04:56 15750 Nov 21 05:53 15750 Nov 20 00:11 15750 Nov 29 14:10 15750 Dec 02 01:35 15750 Dec 07 21:07 15750 Dec 12 22:39 15750 Dec 26 17:03 15750 Dec 26 17:03 15750 Dec 30 01:00 15751 Jan 09 09:18 15751 Jan 17 15:37 15751 Jan 21 05:40 15751 Jan 28 00:05 15751 Jan 28 01:18 15751 Jan 30 03:58 15751 Jan 31 12:32 15751 Feb 04 10:18 15751 Feb 10 20:32 15751 Feb 16 03:49 15751 Mar 09 22:12 15751 Mar 10 14:30	8° \mathbb{\pi}.14'55 9° \mathbb{\pi}.04'28 25° \mathbb{\pi}.02'39 0° \mathbb{\pi}. 23° \mathbb{\pi}.54'14 28° \mathbb{\pi}.04'43 28° \mathbb{\pi}.59'22 28° \mathbb{\pi}.447'59 25° \mathbb{\pi}.03'22 23° \mathbb{\pi}.32'09 20° \mathbb{\pi}.36'04 19° \mathbb{\pi}.39'43 26° \mathbb{\pi}.30'53 0° \mathbb{\pi}. 14° \mathbb{\pi}.35'16 0° \mathbb{\pi}. 7° \mathbb{\pi}.31'52 22° \mathbb{\pi}.21'52 22° \mathbb{\pi}.28'30 27° \mathbb{\pi}.04'47 0° \mathbb{\pi}. 8° \mathbb{\pi}.10'05 20° \mathbb{\pi}.38'51 0° \mathbb{\pi}. 29° \mathbb{\pi}.21'34 0° \mathbb{\pi}.	19°51'38 -4°30'46 4°27'01 0.55086 AU 24°36'44 1°34'02 1°34'33 1.32233 AU

evening set	15753 Feb 21 20:12	29° ∺ 04'10		evening max el	15754 Jan 14 02:01	4°) (26′14	25°26'59
min. Earth dist.	15753 Feb 25 22:15		0.58868 AU	retrograde	15754 Jan 27 23:20	11° ∺ 25′20	
inferior conj	15753 Mar 01 02:57	23° ¥ 58′15		evening set	15754 Feb 02 18:37	10°) €08'32	
minimum elong	15753 Mar 01 10:05	23°) (44′28	3°05'02	min. Earth dist.	15754 Feb 07 14:41	7° ∺ 27'26	0.56824 AU
morning rise	15753 Mar 09 03:25	19° ∺ 23'33		inferior conj	15754 Feb 10 09:21	5°) 36′00	
direct	15753 Mar 11 02:52	19° ₩ 09'35		minimum elong	15754 Feb 10 18:41		4°32'24
asc. node	15753 Mar 11 01:09	19° ∺ 09'36		morning rise	15754 Feb 18 21:34	1°) 22′42	
morning max el	15753 Mar 18 23:52	23°) €03'31	18°17'51	direct	15754 Feb 20 22:45	1° ∺ 10′14	
	15753 Mar 24 11:37	0 ° $\mathbf{\gamma}$		asc. node	15754 Feb 25 22:30	2° ∺ 29'10	
morning set	15753 Apr 03 16:47	18° Ƴ 02'59		morning max el	15754 Mar 02 02:45	5°) 38′57	19°04'21
	15753 Apr 10 01:03	9° 8			15754 Mar 17 11:05	0 ° $\mathbf{\gamma}$	
desc. node	15753 Apr 12 15:35	4° 8 47'44		morning set	15754 Mar 18 16:07	2° Y 22'51	
superior conj	15753 Apr 13 04:10	5° 8 44'59	-0°04'22	superior conj	15754 Mar 27 02:24	18° Ƴ 54'45	0°28'22
minimum elong	15753 Apr 13 03:48	5° 8 43'19	0°04'42	minimum elong	15754 Mar 27 04:07	19° Ƴ 02'56	0°27'53
behind sun begin	15753 Apr 12 20:41	5° 8 10'59		desc. node	15754 Mar 30 12:13	25° Ƴ 20′21	
behind sun end	15753 Apr 13 10:55	6° 8 15'34			15754 Apr 02 01:20	9° 8	
max. Earth dist.	15753 Apr 20 18:06	19° 8 04'10	1.41134 AU	max. Earth dist.	15754 Apr 03 00:21	1° 8 43'25	1.38867 AU
evening rise	15753 Apr 25 08:11	26° 8 42'46		evening rise	15754 Apr 06 19:19	8° 8 22'06	
C	15753 Apr 27 08:52	$\Pi^{\circ}0$		Č	15754 Apr 20 06:38	$\Pi^{\circ}0$	
	15753 May 17 14:49	0°€		evening max el	15754 May 11 23:34	28° Ⅱ 05'47	24°31'38
evening max el	15753 May 29 09:53	14°911'17	23°10'36	Ü	15754 May 14 00:12	0ಂತ	
asc. node	15753 Jun 06 22:42	20°503'33		retrograde	15754 May 23 13:07	4°951'27	
retrograde	15753 Jun 08 20:19	20°519'14		asc. node	15754 May 24 19:47	4°5944'30	
evening set	15753 Jun 13 23:03	18° © 08'58		evening set	15754 May 29 03:19	2°529'20	
inferior conj	15753 Jun 19 07:01	11°5944'04	2°55'50	evening see	15754 May 31 13:07	30°RⅡ	
minimum elong	15753 Jun 19 05:39	11°948'50	2°54'48	min. Earth dist.	15754 Jun 02 15:45	27° Ⅱ 19'04	0.68578 AU
min. Earth dist.	15753 Jun 18 20:10	12°921'40	0.69064 AU	inferior conj	15754 Jun 03 15:30	25° I 59'28	2°34'00
morning rise	15753 Jun 24 12:11	5°935'39	0.09004 AU	minimum elong	15754 Jun 03 13:31	26° I 106'06	2°32'44
•				Č		20° I I00'00	2 32 44
direct	15753 Jun 28 20:32	3°950'37	20050146	morning rise	15754 Jun 08 23:52	20° Ⅱ 00′00 18° Ⅱ 34'44	
morning max el	15753 Jul 07 07:22	8°541'40	20°58'46	direct	15754 Jun 12 20:30		10040102
desc. node	15753 Jul 09 15:31	11° © 11'15		morning max el	15754 Jun 20 07:10	22° I I43'19	19°48'03
	15753 Jul 23 17:28	0° Ω			15754 Jun 26 11:44	0°€	
morning set	15753 Aug 06 15:32	20° £ 59'36		desc. node	15754 Jun 26 12:40	0°503'05	
	15753 Aug 12 08:24	0° m)		morning set	15754 Jul 16 19:46	29° © 51'39	
max. Earth dist.	15753 Aug 14 07:38	3° Mp 10'11	1.43256 AU	max. Earth dist.	15754 Jul 16 21:57 15754 Jul 27 20:51	0° Ω 17° Ω 03'07	1.44848 AU
aumariar aani	15752 Aug 21 07:55	1.40 m. 45!21	1925140	max. Earth dist.	13/34 Jul 2/ 20.31	1/ 86030/	1.44646 AU
superior conj	15753 Aug 21 07:55	14° Mp 45'21			15754 4 01 10 20	240 0 5 514 6	2002126
minimum elong	15753 Aug 21 15:23	15° Mp 16'53	1-35 06	superior conj	15754 Aug 01 19:20	24° Ω 55'46	
	15753 Aug 30 03:22	0° ⊽		minimum elong	15754 Aug 02 02:09	25° Ω 23'14	2°02'44
evening rise	15753 Sep 02 04:01	5° £ 22'25			15754 Aug 04 22:26	0° m/y	
asc. node	15753 Sep 02 23:22	6° ≏ 48'31		evening rise	15754 Aug 15 10:02	17° m/26'37	
	15753 Sep 17 15:10	0°M		asc. node	15754 Aug 20 20:00	26° My 34'33	
evening max el	15753 Sep 18 13:11	0° M 57′39	18°02'27		15754 Aug 22 21:37	0∘ ত	
retrograde	15753 Sep 25 06:15	4°M25'13		evening max el	15754 Sep 02 03:59	14° ≙ 22'08	18°05'43
evening set	15753 Sep 27 14:58	3°M59'26		retrograde	15754 Sep 08 13:03	17° ≏ 42'29	
	15753 Oct 03 09:24	30° ₹ Ω		evening set	15754 Sep 11 06:15	17° ≙ 04'07	
inferior conj	15753 Oct 04 11:04	28° ♀ 59'20	0°19'45	inferior conj	15754 Sep 17 11:58	11° ≏ 46'10	1°26'39
minimum elong	15753 Oct 04 11:42	28° ≏ 57'50	0°19'49	minimum elong	15754 Sep 17 14:04	11° ≏ 40'30	1°26'02
desc. node	15753 Oct 05 12:26	27° £ 58'10		min. Earth dist.	15754 Sep 20 04:35	8° ≏ 52'04	0.63125 AU
min. Earth dist.	15753 Oct 07 13:48	26° ≏ 01'18	0.60867 AU	desc. node	15754 Sep 22 09:50	6° £ 42'56	
morning rise	15753 Oct 11 05:23	23° ≏ 06'24		morning rise	15754 Sep 23 19:43	5° £ 33'43	
direct	15753 Oct 17 21:00	20° £ 54'16		direct	15754 Sep 30 11:39	3° ഫ 04'42	
morning max el	15753 Nov 01 02:34	28° ≏ 47'54	27°57'17	morning max el	15754 Oct 14 10:46	11° ≏ 03'54	27°50'22
	15753 Nov 02 07:01	0°M			15754 Oct 29 09:57	0° M	
	15753 Nov 23 10:49	0° ∡ ¹			15754 Nov 15 20:00	0° ∡ ¹	
asc. node	15753 Nov 30 00:28	12° ≯ 12'25		asc. node	15754 Nov 16 21:21	2° ∡ 05'23	
morning set	15753 Dec 04 03:51	20° ₹ 35'48		morning set	15754 Nov 18 00:01	4° ₹ 19'12	
	15753 Dec 08 13:10	8°0		max. Earth dist.	15754 Nov 23 00:50	14° ∡ 749′28	1.31996 AU
max. Earth dist.	15753 Dec 09 23:33	3° る 09′21	1.31225 AU			200 = 2	1010:::
				superior conj	15754 Nov 25 16:39		1°13'44
superior conj	15753 Dec 11 08:37	6° る 12'50		minimum elong	15754 Nov 25 14:22	20° ∡ 22'42	1°14'14
minimum elong	15753 Dec 11 06:52	6° る 03'07	1°28'32		15754 Nov 29 23:29	0°₹	
evening rise	15753 Dec 18 01:12	21° ට 01'00		evening rise	15754 Dec 02 11:54	5° る 29'05	
	15753 Dec 22 07:54	0° ≈			15754 Dec 15 06:27	0° ≈	
desc. node	15754 Jan 01 10:48	18° ≈ 19′10		desc. node	15754 Dec 19 07:42	6° ≈ 05'01	
	15754 Jan 09 21:52	0° ∀		evening max el	15754 Dec 26 12:47	14° ≈ 34'40	23°48'51

	retrograde	15755 Jan 09 00:20	21°≈15'40			15755 Dec 16 05:00	0° ≈ ≈	
nine fination 1755 Day 20 0000 0758 Day 21 0000 <td>•</td> <td></td> <td></td> <td></td> <td>ratrograda</td> <td></td> <td>* -</td> <td></td>	•				ratrograda		* -	
Information and	•			0.55267 AU	•			
minimar where					evening set			
Moning 1,575, 150 10,000	3							0.54460.477
officer 1755 Feb 1 20 320 12*monting man of 1575 Feb 1 20 1951 17*mouting man of 1575 Feb 2 20 1952 17*mouting man of 1				5°40'13				
Section 1975 Feb. 12 1948 1978 1	-				3			
1955 196 1975 1974 1974 1974 1974 1974 1974 1975 1974 1					_			5°59'41
1755 1755 1757 1755				20°13'55	=			
Manuming sem	asc. node							
1755 Mar 10 1414 2°P4013 0°5503 moming set 15756 Feb 15 08.05 1°P4118 moming memory 15755 Mar 10 1414 0°P4013 0°5503 moming set 15756 Feb 15 08.05 1°P4118 moming memory 15755 Mar 10 1414 0°P4013 max. Earth dist. 15755 Mar 10 1614 13°P5001 136016 AU minimum elong 15755 Feb 22 11.56 16°M5100 1°P151 1755 Mar 20 1615 16755 Mar 20 1615 1	_				morning max el			21°46'03
1575 Mar 10 1414 2°P4071 0°S503 0°S503 0°S503 0°S503 0°S504 0°S503 0°S503 0°S504 0°S505	morning set							
Marchinimum ellows 1575 Mar 10 14.14 2°94013 0°5903 morning set 15756 Feb 15 08.00 1°44178 1°450 mark Farth dist 15755 Mar 16 0°714 13°95070 136616 AU marminum ellows 15755 Mar 16 0°714 1°795079 marminum ellows 15756 Feb 22 14.22 17°94034 1°1513		15755 Mar 09 06:31	0° ΄γ ′		asc. node			
minimum elong								
Max. Earth dist					morning set	15756 Feb 15 08:05	1° ∺ 41'18	
Part	Č							
Persing files 15755 Mar 20 0145 0°P°P°S 20°P°P°S 20°P°P°		15755 Mar 16 07:14		1.36616 AU				
1575 Nam		15755 Mar 17 08:50			minimum elong	15756 Feb 22 14:22		1°15'13
Part	evening rise	15755 Mar 20 01:45			max. Earth dist.	15756 Feb 26 19:11		1.34596 AU
Pereing max 1975		15755 Mar 25 07:08				15756 Feb 28 23:17		
Petrograde 15755 May 17 10.20 17"		15755 Apr 14 05:19	$\Pi^{\circ}0$		evening rise	15756 Mar 02 00:01		
Section 15755 May 11 16.57 17 14410 1670 1470 15755 May 13 02.31 1670 1	evening max el	15755 Apr 24 13:11	11° Ⅱ 59'26	25°46'03	desc. node	15756 Mar 03 05:27	6° Ƴ 14'37	
Persing set 15755 May 13 0.231 16"H1182 16"B1755 May 15 0.755 May 18 0.36 10"H1124 20"U111 15"S May 18 0.36 10"H1124 20"U111 15"S May 18 1.36 10"H1124 20"U114 15"S May 18 1.36 10"H1124 20"U114 15"S May 18 1.36 10"H1124 20"U114 15"S May 18 1.35"S May 18 1.35"S May 18 1.35"S May 14 1.055 4"H1215 15"S May 18 1.35"S May 18 1.3	retrograde	15755 May 07 01:20	19° Ⅱ 11'39			15756 Mar 17 03:55	0°B	
min. Earth dist. 15755 May 17 07.55 12 "H0754 20"111 2 20"111 15"948 15756 Apr 19 0.803 3" H138 14" 15"755 May 18 18.26 10" H1820 15"948 15"55 Apr 25 18.45 20"80 15"55 May 18 18.26 10" H1820 15"948 15"55 Apr 27 14.12 20"80 20"80 15"55 Apr 27 14.12 20"80 15"55 Apr 27 18.13 20"80 15"55 Apr 27 18.13 15"55 A	asc. node	15755 May 11 16:57	17° Ⅱ 44'10		evening max el	15756 Apr 06 03:02	25° 8 44'33	26°46'18
Inferior conj	evening set	15755 May 13 02:31	16° Ⅱ 41'48			15756 Apr 11 03:19	$\Pi^{\circ}0$	
minimum elong 15755 May 18 1822 10°H 1820 15°948 sec. node 15756 Apr 27 14:12 20°P01728 cliented 15755 May 27 20:33 3°H 1601 minimum elong 15755 May 10 03 14:14 6°H 1823 cliented 15755 May 10 14:14 6°H 1823 cliented 15755 May 10 14:10 20°P0 cliented 15755 May 10 14:10 20°P0 cliented 15755 May 10 14:20 24°B 1930 cliented 15755 May 10 16:20 24°B 1930 cliented 15755 May 10 16:20 24°B 1930 cliented 15755 May 10 18:40 15756 May 10 18:40 1575	min. Earth dist.	15755 May 17 07:56	12° Ⅲ 07'54	0.67627 AU	retrograde	15756 Apr 19 08:03	3° Ⅱ 11'38	
moming rise 15755 May 24 10.55 4°IIZ21*1 asc. node 15756 Apr 27 14.12 29°801'28* 0.66240 AU driced 15755 Jun 3 14.14 6°IIS3'33 18°9226 inferior conji 15756 May 01 18.20 26°4002 0.66240 AU desc. node 15755 Jun 13 09.44 19°IIS'30 minimum clong 15756 May 01 18.20 24°8'13'84 19°12'11 morning set 15755 Jun 20 08.33 9°S04'25 morning maxel 15756 May 17 03.23 12°80'74 18°13'18 max. Earth dist. 15755 Jul 10 15:08 1°Q2 1.4578 AU omming maxel 15756 May 17 03.23 12°80'74 18°13'18 superior conj 15755 Jul 10 15:08 1°Q2 1.4578 AU osc. node 15756 May 10 12 05:33 0°ET 18°13'18 evening rise 15755 Jul 12 11:05 4°Q20'11 -2°14'06 morning set 15756 May 10 12 05:33 0°ET 19°II 23'11 superior conj 15755 Jul 28 14:37 4°Q23'16 2°14'15 morning set 15756 Jul 20 10:30 19°II 23'11 2°0'12'11 evening rise 15755 Jul 28 14:31 11:15	inferior conj	15755 May 18 20:36	10° Ⅱ 11′24	2°01'11	evening set	15756 Apr 25 18:45	0° Ⅲ 39'12	
Minecut 15755 May 27 20.33 3°H 160 15756 May 01 20.06 24°H 070 15756 May 01 20.06 24°H 070 15756 May 01 20.06 24°H 1354 17626 15756 May 01 1840 12°H 1354 17626 15756 May 01 1840 12°H 1354 17626 15756 May 01 1840 12°H 1354 17626 15756 May 01 1840 18°H 1356 May 01 1840 18°	minimum elong	15755 May 18 18:26	10° Ⅱ 18′20	1°59'48		15756 Apr 26 13:21	30° ₹ 8	
Morning max e 15755 Jun 03 14-14 6°H5353 18°5226 inferior conj 15756 May 01 2006 24°B190 19°11	morning rise	15755 May 24 10:55	4° Ⅲ 22'15		asc. node	15756 Apr 27 14:12	29° 8 01'28	
Morning max e 15755 Jun 03 14-14 6°H5353 18°5226 inferior conj 15756 May 01 2006 24°B190 19°11	direct	15755 May 27 20:33	3° Ⅲ 16′01		min. Earth dist.	15756 Apr 29 18:30	26° 8 40'02	0.66240 AU
Parameter brilliance 15755 Jun 17 02:36 25°H0131 0-8m moming rise 15756 May 10 18:41 17°B4743 17°B4744 17°B4743 17°B4744	morning max el		6° Ⅱ 53'53	18°52'26	inferior conj	15756 May 01 20:06	24° 8 13'54	1°16'26
Pare lact brilliance 15755 km	desc. node	15755 Jun 13 09:44	19° Ⅲ 29'20		minimum elong	15756 May 01 18:20	24° 8 19'09	1°15'11
Morning set 15755 Jul 20 08-42 0°\$\bar\$ morning set 15755 Jul 09 16-34 0°\$\bar\$ 0°\$	greatest brilliancy	15755 Jun 17 02:36	25° Ⅲ 01'31	-0.8m	_	•	18° 8 36'48	
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morning set 15756 Oct 14 07:48 0° 112'53 superior conj 15755 Nov 09 19:51 4° ₹40'50 0°53'33 15756 Oct 14 05:00 0° 11.2'53 minimum elong 15755 Nov 09 17:35 4° ₹28'48 0°53'53 max. Earth dist. 15756 Oct 18 01:25 7° 11.16'14 1.35175 AU evening rise 15755 Nov 16 22:26 19° ₹55'15 asc. node 15756 Oct 20 14:59 12° 11.17'38 desc. node 15755 Dec 06 04:42 22° ₹39'35 superior conj 15756 Oct 23 15:37 18° 11.23'27 0°27'25	man. Latui Uist.			1.55551 AU	morning max ei	-		20 03 31
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minimum elong 15755 Nov 09 17:35 4°\$\frac{2}{2}8'48 0°53'53 max. Earth dist. 15756 Oct 18 01:25 7°\$\pi\left\16'14 1.35175 AU evening rise 15755 Nov 16 22:26 19°\$\frac{2}{5}5'15 asc. node 15756 Oct 20 14:59 12°\$\pi\left\17'38 15755 Nov 21 19:36 0°\$\frac{2}{5}\$ desc. node 15755 Dec 06 04:42 22°\$\frac{2}{3}9'35\$ superior conj 15756 Oct 23 15:37 18°\$\pi\left\23'27 0°27'25\$	aumani ·	15755 N 00 10 51	40.740150	0052122	morning set			
evening rise 15755 Nov 16 22:26 19°ネ55'15 asc. node 15756 Oct 20 14:59 12°肌17'38 15755 Nov 21 19:36 0°る desc. node 15755 Dec 06 04:42 22°る39'35 superior conj 15756 Oct 23 15:37 18°肌23'27 0°27'25					mov Fth U.			1 25175 411
15755 Nov 21 19:36 0°る desc. node 15755 Dec 06 04:42 22°る39'35 superior conj 15756 Oct 23 15:37 18°M23'27 0°27'25	_			0 33 33				1.331/3 AU
desc. node 15755 Dec 06 04:42 22°♂39'35 superior conj 15756 Oct 23 15:37 18°M23'27 0°27'25	evening rise				asc. node	13/30 UCT 20 14:59	12-1161/38	
1 ,	4 1				·	1575(0 + 22 15 27	100 m 22127	0927125
evening max ei 15/55 Dec 0/ 25:40 24*\(\rightarrow\) 51/52 22*\(\rightarrow\)556 minimum elong 15/56 Oct 23 14:0/ 18*\(\mathbr{ll}\)15/48 0°27'42				22905157				
	evening max el	15/55 Dec 0/ 25:40	24° O 31'32	22-05.20	minimum elong	13/30 OCT 23 14:07	18 IIL15'48	U-2/42

	15756 Oat 20 05:57	0° ∡ 7		bahind sun bagin	15757 Oct. 06, 19:29	1° M .04'30	
ovening rise	15756 Oct 29 05:57 15756 Oct 31 06:48	0 x · 4° ₹ 14'35		behind sun begin behind sun end	15757 Oct 06 18:28 15757 Oct 07 07:30	2°M07'55	
evening rise	15756 Nov 14 15:38	4 x・1433		asc. node		2°M28'21	
evening max el	15756 Nov 18 20:17	0 る 4° る 54'34	20°34'52	evening rise	15757 Oct 07 11:41 15757 Oct 15 10:38	18°M20'45	
desc. node	15756 Nov 18 20.17 15756 Nov 22 01:47	4 03434 7° る 39'48	20 34 32	evening rise	15757 Oct 13 10:38	0° √	
retrograde	15756 Nov 29 23:53	7 03948 10° る 27'10		evening max el	15757 Nov 01 07:24	0 x . 16° x 05′28	19°24'20
evening set	15756 Dec 02 08:51	10 32/10 10°る13'14		desc. node	15757 Nov 08 22:59	20° x 40'52	19 24 20
inferior conj	15756 Dec 11 04:46	6°る19'26	5010111	retrograde	15757 Nov 10 19:51	20° × 40° 32 20° × 751'35	
minimum elong	15756 Dec 10 19:34	6°る32'47		evening set	15757 Nov 10 19:31 15757 Nov 12 17:40	20° x 31 33	
min. Earth dist.	15756 Dec 12 11:19	5°る35'08	0.54589 AU	inferior conj	15757 Nov 21 08:01	16° х 33'38	3040122
morning rise	15756 Dec 19 06:05	2°る22'06	0.54569 AU	minimum elong	15757 Nov 20 22:50	16° ₹ 48'35	3°45'27
direct	15756 Dec 23 17:52	1°る38'47		min. Earth dist.	15757 Nov 20 22:30 15757 Nov 23 20:21	14° x 755'34	
morning max el	15757 Jan 06 02:48	8°る11'27	23°33'45	morning rise	15757 Nov 29 01:51	12° × 707'35	0.55025 AC
asc. node	15757 Jan 16 14:29	3 31127 21° る 26'49	23 33 43	direct	15757 Dec 04 11:57	11° x '01'01	
asc. node	15757 Jan 21 15:13	0°≈		morning max el	15757 Dec 18 11:47	18° × 704'44	25°21'15
morning set	15757 Jan 29 19:56	0 ~ 16° ≈ 25'52		morning max cr	15757 Dec 28 08:15	0°궁	23 21 13
morning set	15757 Feb 05 01:57	0° ∀		asc. node	15758 Jan 03 11:41	9° る 48'19	
	13/3/100 03 01.3/	0 /		asc. node	15758 Jan 13 19:29	0°≈	
superior conj	15757 Feb 05 16:31	1° ¥ 18'53	1°28'59	morning set	15758 Jan 14 07:40	0 ∞ 1°≈05'27	
minimum elong	15757 Feb 05 18:15	1° ∺ 28'19	1°29'18	morning set	13/38 Jan 14 07.40	1 ~0327	
max. Earth dist.	15757 Feb 08 14:31	7° ∺ 33'43	1.32959 AU	superior conj	15758 Jan 21 01:22	15° ≈ 55'30	1°36'27
evening rise	15757 Feb 13 10:42	17° X 33 4 3	1.32)3) AO	minimum elong	15758 Jan 21 02:08	15°≈59'46	1°37'04
desc. node	15757 Feb 18 02:05	26°\(\frac{1}{2}\)28'07		max. Earth dist.	15758 Jan 22 16:38	13 ≈3940 19°≈31'57	1.31796 AU
desc. Hode	15757 Feb 20 00:17	20 γ (2807		max. Earm dist.	15758 Jan 27 13:41	0° \	1.51790 AU
	15757 Mar 11 12:09	0°8		evening rise	15758 Jan 28 06:40	1° ¥ 28'12	
evening max el	15757 Mar 19 16:11	9° 8 11'00	27925101	desc. node	15758 Feb 04 22:44	16° ¥ 25'03	
retrograde	15757 Apr 02 08:26	16° 8 42'50	27 23 01	desc. node	15758 Feb 12 22:33	10 γ (25 05	
evening set	15757 Apr 02 08:20 15757 Apr 09 01:53	14° 8 14'21		evening max el	15758 Mar 02 02:55	22° Υ '06'16	27°35'29
min. Earth dist.	15757 Apr 12 21:33	10° 8 46'37	0.64466 AU	retrograde	15758 Mar 16 01:31	29° Υ 34'27	21 33 29
asc. node	15757 Apr 12 21:33 15757 Apr 14 11:30	9° 8 05'35	0.04400 AU	evening set	15758 Mar 22 21:21	27°Υ17'36	
inferior conj	15757 Apr 14 11:30 15757 Apr 15 11:23	8° 8 01'03	0°18'43	min. Earth dist.	15758 Mar 26 15:31		0.62385 AU
minimum elong	15757 Apr 15 11:25 15757 Apr 15 10:51	8° 8 02'28	0°18'04	inferior conj	15758 Mar 29 15:19	24 γ 13 32 21° γ 24'20	
morning rise	15757 Apr 13 10:51 15757 Apr 21 21:57	2° 8 38'02	0 10 04	minimum elong	15758 Mar 29 17:06	21° γ 24'20'21° γ 20'03	0°52'06
direct	15757 Apr 24 12:22	2° 8 03'19		asc. node	15758 Apr 01 08:51	18° Υ 55'17	0 32 00
morning max el	15757 Apr 24 12.22 15757 Apr 30 20:16	5° 8 18'21	17°51'13	morning rise	15758 Apr 01 08.51 15758 Apr 05 15:51	16° Υ 17'52	
desc. node	15757 May 17 03:35	29° 8 29'03	17 31 13	direct	15758 Apr 03 13:31 15758 Apr 07 22:29	15° Υ 54'04	
desc. Hode	15757 May 17 03:55 15757 May 17 10:59	29 O 29 03		morning max el	15758 Apr 07 22:29 15758 Apr 14 13:53	19° Υ 15'42	17°46'43
marning got	15757 May 17 10:39 15757 May 18 01:28	1° Ⅱ 00'32		morning max er	15758 Apr 14 13:35	0° 8	1 / 40 43
morning set	13/3/ May 18 01.28	1 Д00 32		marning got	•	13° 8 45'06	
superior aoni	15757 May 21 15:16	23° Ⅱ 17'13	1020127	morning set desc. node	15758 Apr 30 13:02	19° 8 50'04	
superior conj minimum elong	15757 May 31 15:16 15757 May 31 06:38	23 H 1713 22° H 42'40		desc. node	15758 May 04 00:23 15758 May 09 22:11	19 3 30 04 0° Ⅱ	
minimum elong	15757 Jun 04 20:44	0°95	1 39 34		13/38 May 09 22.11	υц	
may Earth dist	15757 Jun 05 07:37		1 45402 ATT	aumanian aani	15759 May 12, 07:40	4° Ⅱ 02'15	1902127
max. Earth dist.	15757 Jun 05 07:37 15757 Jun 16 11:10	0° © 42'53 17° © 59'42	1.45402 AU	superior conj	15758 May 12 07:49		1°03'30
evening rise	15757 Jun 24 09:14	17 3 3942 0° Ω		minimum elong max. Earth dist.	15758 May 12 01:51	3 П 3/21 14° П 59'30	1.44154 AU
			0.6		15758 May 19 00:22	27° I [31'29	1.44134 AU
greatest brilliancy	15757 Jul 01 07:13	10° Ω 12'45	-0.6m	evening rise	15758 May 26 23:28	27° Ц 31729	
asc. node	15757 Jul 11 10:15 15757 Jul 13 09:19	23° Ω 39'20 25° Ω 44'56	19°59'10		15758 May 28 14:05 15758 Jun 18 05:54	0° U	
evening max el		0° m)	19-39 10	avanina may al		9° Ω 38'13	2190640
	15757 Jul 20 06:41			evening max el	15758 Jun 26 08:13		21 00 49
retrograde	15757 Jul 20 23:32	0° Mp 02'41		asc. node	15758 Jun 28 07:05	11° Ω 26'57	
	15757 Jul 21 16:10	30°R€ 200 O 24/22		retrograde	15758 Jul 04 22:29	14° Ω 36'27	
evening set	15757 Jul 24 21:24	28° Ω 34'33	2002121	evening set	15758 Jul 09 07:08	12° Ω 50'56	2000102
inferior conj	15757 Jul 30 04:26	22° Ω 34'28		inferior conj	15758 Jul 14 12:40	6° Ω 39'55	3°09'03
minimum elong	15757 Jul 30 05:25	22° Q 31'10	3°02'52	minimum elong	15758 Jul 14 12:41	6° Ω 39'53	3°08'19
min. Earth dist.	15757 Jul 31 03:44	21° Ω 15'35	0.68064 AU	min. Earth dist.	15758 Jul 14 22:30	6° Ω 05'45	0.68835 AU
morning rise	15757 Aug 04 13:01	16° Ω 09'28		morning rise	15758 Jul 19 17:57	0°Ω19'48	
direct	15757 Aug 10 04:39	13° Ω 41′21		J: 4	15758 Jul 20 03:17	30°R©	
desc. node	15757 Aug 13 02:05	14° Ω 14'11	24941102	direct	15758 Jul 24 21:42	28°©05'33	
morning max el	15757 Aug 21 20:14	20° Ω 40'02	24*41'03	4 1	15758 Jul 30 06:18	0° Q 2012 (
	15757 Aug 29 21:16	0° m)		desc. node	15758 Jul 30 23:26	0° Ω 29'26	22012100
	15757 Sep 19 08:09	0° ⊽		morning max el	15758 Aug 04 07:25	4° Ω 16'57	25~12'00
morning set	15757 Sep 26 12:02	12° £ 06'21	1.07406 177		15758 Aug 24 01:42	0° Mp	
max. Earth dist.	15757 Sep 30 01:25	18° ≏ 27'19	1.37406 AU	morning set	15758 Sep 07 18:55	23° m 04'35	
	15757 Oct 06 05:08	0° M		E 4.2	15758 Sep 11 21:11	0° ⊽	1.20000 : **
		10300 2	000 4100	max. Earth dist.	15758 Sep 11 23:57	0° ჲ 11'57	1.39808 AU
superior conj	15757 Oct 07 00:44	1°MJ35'00			15550 0 10 10		0026:5-
minimum elong	15757 Oct 07 00:59	1°MJ36'11	0°03'44	superior conj	15758 Sep 19 19:20	14° ≙ 06'47	-0°39'35

minimum elong	15758 Sep 19 22:19	14° ≏ 20'34	0°38'57	superior conj	15759 Sep 01 18:56	25° m/48'10	-1°16'04
asc. node	15758 Sep 24 08:20	22° ♀ 37'18	0 3027	minimum elong	15759 Sep 02 01:05	26° m) 14'55	
	15758 Sep 28 04:44	0°M			15759 Sep 04 04:21	0ಂ ರ	
evening rise	15758 Sep 29 07:04	2°ML06'43		asc. node	15759 Sep 11 04:56	12° ≏ 40'23	
evening max el	15758 Oct 15 07:33	28°ML05'56	18°36'08	evening rise	15759 Sep 12 16:19	15° ≏ 22'27	
S	15758 Oct 17 11:46	0° ∡ ¹		C	15759 Sep 20 21:17	0°M₊	
retrograde	15758 Oct 23 09:40	2° ∡ 11'30		evening max el	15759 Sep 28 16:35	10°M46'25	18°09'03
evening set	15758 Oct 25 08:10	1° ∡ 758'11		retrograde	15759 Oct 05 18:29	14°M23'49	
desc. node	15758 Oct 26 20:14	1° ∡ ³30'38		evening set	15759 Oct 07 22:57	14°ML03'33	
	15758 Oct 29 19:04	30°RML		desc. node	15759 Oct 13 17:34	10°M30'32	
inferior conj	15758 Nov 02 07:33	27°M30'44	-2°04'41	inferior conj	15759 Oct 15 04:37	9° ™ 14'37	-0°27'52
minimum elong	15758 Nov 02 02:32	27°ML40'14	2°02'00	minimum elong	15759 Oct 15 03:39	9° ™ 16'45	0°27'02
min. Earth dist.	15758 Nov 05 11:20	25°ML07'52	0.57377 AU	min. Earth dist.	15759 Oct 18 10:24	6°M23'51	0.59551 AU
morning rise	15758 Nov 09 17:34	22°M28'08		morning rise	15759 Oct 22 05:03	3°M37'54	
direct	15758 Nov 15 20:28	20°M54'54		direct	15759 Oct 28 17:59	1°M38'57	
morning max el	15758 Nov 30 02:06	28°M22'12	26°49'20	morning max el	15759 Nov 12 00:33	9° ™ 24'00	27°43'50
	15758 Dec 01 16:59	0° ∡ ¹			15759 Nov 27 21:02	0° ∡ 7	
asc. node	15758 Dec 21 08:49	28° х 47′04		asc. node	15759 Dec 08 05:50	18° ≯ 12'41	
	15758 Dec 22 00:26	0°ಕ		morning set	15759 Dec 13 23:48	29° х 51'47	
morning set	15758 Dec 29 17:34	15° る 35'42			15759 Dec 14 01:21	0°ප	
	15759 Jan 05 06:08	0° ≈					
				superior conj	15759 Dec 20 23:47	15° る 12'06	1°33'14
superior conj	15759 Jan 05 12:25	0° ≈ 35′06	1°37'50	minimum elong	15759 Dec 20 22:30	15° る 04'58	1°33'59
minimum elong	15759 Jan 05 12:08	0° ≈ 33'29	1°38'36	max. Earth dist.	15759 Dec 20 07:02	13° る 38'30	1.31042 AU
max. Earth dist.	15759 Jan 05 23:18	1° ≈ 35'58	1.31153 AU	evening rise	15759 Dec 27 16:46	0° ≈ 03'07	
evening rise	15759 Jan 12 09:26	15° ≈ 40'42			15759 Dec 27 16:12	0° ≈	
	15759 Jan 19 12:41	0° ∀		desc. node	15760 Jan 09 16:14	25° ≈ 01'13	
desc. node	15759 Jan 22 19:27	5° ¥ 58'57			15760 Jan 12 19:06	0° ∀	
	15759 Feb 08 06:09	0° Υ		evening max el	15760 Jan 25 07:39	15°) 39'47	26°14'20
evening max el	15759 Feb 12 08:58	4° Υ 18'51	27°12'22	retrograde	15760 Feb 08 06:51	22°) 45′43	
retrograde	15759 Feb 26 09:38	11° Ƴ 37'11		evening set	15760 Feb 14 12:41	21° ¥ 12'57	
evening set	15759 Mar 05 02:07	9° Ƴ 39'31		min. Earth dist.	15760 Feb 18 20:56		0.57962 AU
min. Earth dist.	15759 Mar 08 23:22	6° Y 55'38	0.60149 AU	inferior conj	15760 Feb 21 22:48	16° 米 21'43	
inferior conj	15759 Mar 12 04:20	4° Υ 14'33		minimum elong	15760 Feb 22 07:12	16°) €06'27	3°42'55
minimum elong	15759 Mar 12 09:26		2°14'09	morning rise	15760 Mar 01 04:55	11°) 55′54	
	15759 Mar 18 07:26	30° ₹		direct	15760 Mar 03 04:20	11°) (42'57	
asc. node	15759 Mar 19 06:13	29°) ₹37'44		asc. node	15760 Mar 05 03:36	11°) ₹56'24	
morning rise	15759 Mar 19 20:12	29°) €27'13		morning max el	15760 Mar 11 13:17	15°) € 50′26	18°34'52
direct	15759 Mar 21 21:14	29°) 10'43			15760 Mar 21 10:07	0°Υ	
	15759 Mar 25 08:09	0°Υ 2° Ω 40157	10000144	morning set	15760 Mar 27 12:36	11° Y ′26′27	
morning max el	15759 Mar 29 04:49	2° Υ 49'57	18°00'44		15760 4 05 12 21	20000027126	0010112
morning set	15759 Apr 13 18:31	27° Y 18′57		superior conj	15760 Apr 05 12:21	28° Y 35'36 28° Y 38'47	0°10'13 0°09'47
JJ.	15759 Apr 15 05:28	0° と 10° と 18'46		minimum elong	15760 Apr 05 13:02	28° Y 12'44	0-0947
desc. node	15759 Apr 20 21:05	10 01840		behind sun begin behind sun end	15760 Apr 05 07:26 15760 Apr 05 18:38	28 1 12 44 29° Υ 04'48	
aumorior comi	15759 Apr 23 23:48	15° 8 51'06	0.025120	bening sun eng	15760 Apr 05 18.38 15760 Apr 06 06:35	0° 8	
superior conj minimum elong	15759 Apr 23 21:38	15° 8 41'33		desc. node	15760 Apr 06 06.33	0° 8 51'25	
max. Earth dist.	15759 May 01 13:08	28° 8 45'49	1.42354 AU	max. Earth dist.	15760 Apr 00 17:43 15760 Apr 12 21:48	11° 8 52'37	1.40189 AU
max. Latin dist.	15759 May 02 07:04	0°Ⅱ	1.42334 AO	evening rise	15760 Apr 17 00:52	18° 8 54'02	1.4010) AC
evening rise	15759 May 07 01:49	7° Ⅱ 45'06		evening rise	15760 Apr 17 00:32 15760 Apr 23 21:33	18 О 3402	
evening rise	15759 May 21 17:40	0°9			15760 May 15 01:37	0.©	
evening max el	15759 Jun 09 02:01	23° © 31'54	22°24'03	evening max el	15760 May 21 16:38	7° 5 26'48	23°45'24
asc. node	15759 Jun 15 04:01	28°516'06	22 2103	asc. node	15760 Jun 01 01:03	13°5549'49	23 13 2 1
retrograde	15759 Jun 18 19:57	29°5014'20		retrograde	15760 Jun 01 14:42	13°951'12	
evening set	15759 Jun 23 16:00	27°512'34		evening set	15760 Jun 06 22:27	11°935'24	
inferior conj	15759 Jun 28 22:29	20°952'17	3°03'40	min. Earth dist.	15760 Jun 11 15:40	6°904'06	0.68923 AU
minimum elong	15759 Jun 28 21:34	20°555'28	3°02'46	inferior conj	15760 Jun 12 08:00	5° © 08'11	2°47'51
min. Earth dist.	15759 Jun 28 19:08	21°903'56	0.69124 AU	minimum elong	15760 Jun 12 06:20	5°9513'54	2°46'44
morning rise	15759 Jul 04 02:58	14°539'14			15760 Jun 16 12:35	30°RⅡ	* * * *
direct	15759 Jul 08 18:27	12°5942'47		morning rise	15760 Jun 17 14:14	29° Ⅱ 03'37	
desc. node	15759 Jul 17 20:42	18°900'12		direct	15760 Jun 21 17:36	27° II 26'56	
morning max el	15759 Jul 17 21:23	18°901'52	21°45'00		15760 Jun 27 12:40	0.00 5. 27000	
0	15759 Jul 27 19:04	0° Ω		morning max el	15760 Jun 29 17:10	1°958'05	20°27'01
	15759 Aug 17 03:53	0° m/y		desc. node	15760 Jul 03 17:53	6°527'13	,
morning set	15759 Aug 19 01:41	3° m 00'48			15760 Jul 20 12:47	0°Ω	
max. Earth dist.	15759 Aug 25 03:14	12° m) 49'45	1.42103 AU	morning set	15760 Jul 28 12:03	12° Ω 06'57	
	5		-	max. Earth dist.	15760 Aug 06 13:28	26° Ω 20'36	1.44014 AU
					<u> </u>		

	15760 Aug 08 19:59	O° Mp		max. Earth dist.	15761 Jul 20 05:15	10° Ω 29'45	1.45332 AU
superior conj	15760 Aug 12 19:52	6° ™ 31'51	-1°48'30	superior conj	15761 Jul 23 21:52	16° Ω 19'35	-2°09'46
minimum elong	15760 Aug 13 03:39	7° Mp 04'02	1°48'11	minimum elong	15761 Jul 24 02:44	16° Ω 38'53	2°10'13
evening rise	15760 Aug 25 09:50	27° m 56'59			15761 Aug 01 09:54	0° m	
	15760 Aug 26 14:06	0∘ ⊽		evening rise	15761 Aug 07 06:18	9° m ,37′00	
asc. node	15760 Aug 28 01:34	2° ≏ 34'08		asc. node	15761 Aug 14 22:15	22° m 13'56	
evening max el	15760 Sep 11 06:17	23° ≏ 57'11	18°01'32		15761 Aug 19 22:18	0∘ ⊽	
retrograde	15760 Sep 17 18:44	27° ≏ 20'09		evening max el	15761 Aug 25 21:04	7° £ 29'30	18°12'31
evening set	15760 Sep 20 07:00	26° ≏ 49'19		retrograde	15761 Sep 01 05:45	10° ≙ 51'18	
inferior conj	15760 Sep 26 20:32	21° Ω 40'56	0°50'35	evening set	15761 Sep 04 02:38	10° ≏ 06'50	
minimum elong	15760 Sep 26 21:58	21° Ω 37'18	0°50'17	inferior conj	15761 Sep 10 03:17	4° £ 41'49	1°49'06
desc. node	15760 Sep 29 14:56	18° £ 53'17	0.61046.441	minimum elong	15761 Sep 10 05:35	4° £ 35'16	1°48'24
min. Earth dist.	15760 Sep 29 19:22 15760 Oct 03 10:18	18° ♀ 42'32 15° ♀ 38'29	0.61846 AU	min. Earth dist.	15761 Sep 12 14:26	1° ♀ 54'46 30°R ™	0.64022 AU
morning rise direct	15760 Oct 05 10.18 15760 Oct 10 02:38	13° £ 3829		morning rise	15761 Sep 14 10:44 15761 Sep 16 06:43	28° Mp 23'34	
morning max el	15760 Oct 24 06:08	21° ⊆ 15'12	27°59'00	desc. node	15761 Sep 16 10:19	28° M) 12'49	
morning max cr	15760 Oct 31 21:13	0°M	27 37 00	direct	15761 Sep 10 12:15	25° m/50'09	
	15760 Nov 19 23:02	0° ⊼ ¹		direct	15761 Oct 02 10:15	0° ರ	
asc. node	15760 Nov 24 02:47	7° × 757'30		morning max el	15761 Oct 06 16:05		27°36'49
morning set	15760 Nov 27 00:20	13° ∡ ¹48'46			15761 Oct 26 09:31	0° M	
max. Earth dist.	15760 Dec 02 11:56	25° ∡ 29'51	1.31484 AU	morning set	15761 Nov 10 16:46	27°M21'26	
				asc. node	15761 Nov 10 23:40	27°M55'50	
superior conj	15760 Dec 04 09:35	29° ∡ 741′04	1°22'37		15761 Nov 12 00:23	0° ∡ 7	
minimum elong	15760 Dec 04 07:34	29° х ⁴29'53	1°23'13	max. Earth dist.	15761 Nov 15 10:10	7° ∡ ¹02'22	1.32491 AU
	15760 Dec 04 13:00	0°ರ					
evening rise	15760 Dec 11 02:47	14° る 30'21		superior conj	15761 Nov 18 15:52	13° ∡ 757'17	1°05'56
	15760 Dec 18 17:06	0° ≈		minimum elong	15761 Nov 18 13:31	13° ∡ ⁴44'34	1°06'20
desc. node	15760 Dec 26 13:06	13° ≈ 19′28		evening rise	15761 Nov 25 13:40	28° ₹ 58′22	
evening max el	15761 Jan 05 21:44	26°≈09'06	24°47'00		15761 Nov 26 01:10	0°ಕ	
_	15761 Jan 10 16:02	0° \			15761 Dec 12 22:19	0° ≈	
retrograde	15761 Jan 19 15:37	3° ₩ 01'21		desc. node	15761 Dec 13 10:03	0°≈38'01	2200 412 4
evening set	15761 Jan 25 01:28	1° ¥ 56′27		evening max el	15761 Dec 18 07:11	6°≈07'35	23°04'34
min. Earth dist.	15761 Jan 28 23:55 15761 Jan 30 09:41	30°R≈ 29°≈09'19	0.56083 AU	retrograde	15761 Dec 31 11:32 15762 Jan 04 16:08	12°≈39'13 12°≈01'04	
inferior conj	15761 Jan 30 09:41 15761 Feb 01 20:07	29°≈09°19 27°≈37'09		evening set min. Earth dist.	15762 Jan 04 16:08 15762 Jan 11 17:08	8°≈44'49	0.54813 AU
minimum elong	15761 Feb 01 20:07 15761 Feb 02 05:07	27°≈22'57	5°05'11	inferior conj	15762 Jan 12 22:04	8°≈03'22	
morning rise	15761 Feb 10 11:06	23°≈32'33	3 03 11	minimum elong	15762 Jan 13 01:31	7°≈58'25	5°56'01
direct	15761 Feb 12 15:57	23°≈19'14		morning rise	15762 Jan 21 12:16	4°≈13'18	2 20 01
asc. node	15761 Feb 20 01:00	26°≈00'36		direct	15762 Jan 24 08:56	3°≈54'03	
morning max el	15761 Feb 22 11:04	28° ≈ 04'47	19°31'08	morning max el	15762 Feb 04 18:38	9° ≈ 23'59	20°50'39
	15761 Feb 24 06:33	0° ∀		asc. node	15762 Feb 06 22:21	11° ≈ 39'42	
morning set	15761 Mar 11 15:10	25°) 54'30			15762 Feb 18 16:45	0°) €	
	15761 Mar 13 15:58	0° Ƴ		morning set	15762 Feb 23 23:10	10° ∺ 34'11	
superior conj	15761 Mar 19 16:56	12° Y 02'34	0°40'27	superior conj	15762 Mar 03 09:26	26° ₩ 00'32	1°04'24
minimum elong	15761 Mar 19 19:07	12° Υ 13'16	0°40'00	minimum elong	15762 Mar 03 12:00	26°) 13'41	1°04'10
desc. node	15761 Mar 24 14:23	21° Y 23'44			15762 Mar 05 08:36	$0^{\circ}\mathbf{\Upsilon}$	
max. Earth dist.	15761 Mar 26 04:01	24° Y 17'36	1.37893 AU	max. Earth dist.	15762 Mar 08 12:15	6° Ƴ 14'17	1.35714 AU
	15761 Mar 29 08:06	9° 8		desc. node	15762 Mar 11 11:02	11° Y 52'13	
evening rise	15761 Mar 29 20:35	0° 8 55'01		evening rise	15762 Mar 12 10:13	13° Y 40′16	
	15761 Apr 17 03:04	$0^{\circ}\Pi$			15762 Mar 21 18:43	0° 8	
evening max el	15761 May 04 06:02	21° I I21'08	25°04'24		15762 Apr 11 23:19	0°II	
retrograde	15761 May 16 05:41	28° Ⅱ 19'38		evening max el	15762 Apr 16 19:35	5° Ⅱ 11'42	26°13'45
asc. node	15761 May 18 22:11	27° Ⅱ 49′23		retrograde	15762 Apr 29 15:52	12° Ⅱ 32'29 10° Ⅱ 00'37	
evening set min. Earth dist.	15761 May 22 00:48 15761 May 26 09:58	25° Ⅲ 53'21 20° Ⅲ 58'58	0.68235 AU	evening set asc. node	15762 May 05 21:18 15762 May 05 19:24	10° Д 00'37 10° Д 04'32	
inferior conj	15761 May 20 09.38 15761 May 27 15:18	20 ∏ 3838 19° ∏ 22'38	2°21'26	min. Earth dist.	15762 May 03 19.24 15762 May 10 00:03	5° I 41'46	0.67089 AU
minimum elong	15761 May 27 13:18 15761 May 27 13:11	19 Ⅱ 22 38 19° Ⅱ 29'35	2°20'07	inferior conj	15762 May 10 00.03	3° П 31'19	1°43'42
morning rise	15761 Jun 02 01:54	13° I I27'39	2 20 07	minimum elong	15762 May 11 16:14	3° ∏ 37'48	1°42'21
direct	15761 Jun 05 17:43	12° Ⅱ 10'48		viong	15762 May 14 19:29	30°R 8	=
morning max el	15761 Jun 12 20:15	16° Ⅱ 04'36	19°22'26	morning rise	15762 May 17 12:01	27° 8 47'07	
desc. node	15761 Jun 20 15:00	25° I I35'01		direct	15762 May 20 17:08	26° 8 48'39	
	15761 Jun 23 17:35	0ංම			15762 May 26 22:44	0°II	
greatest brilliancy	15761 Jun 25 12:04	2° 9 35'27	-0.7m	morning max el	15762 May 27 06:10	0° Ⅱ 17'45	18°33'38
morning set	15761 Jul 07 16:05	21° © 01'09		desc. node	15762 Jun 07 12:02	15° Ⅱ 12'48	
	15761 Jul 13 11:45	$0^{\circ}\Omega$		morning set	15762 Jun 17 09:51	0° 9 37'36	

	15762 Jun 17 00:16	0°ඉ		superior conj	15763 Jun 12 20:10	4°955'38	
	15762 I-J 02 09.42	250@22122	2012100	minimum elong	15763 Jun 12 11:58	4°523'18 9°540'00	1°56'37
superior conj	15762 Jul 03 08:42	25°533'32		max. Earth dist.	15763 Jun 15 20:40		1.45815 AU
minimum elong max. Earth dist.	15762 Jul 03 06:03	25°523'14		evening rise	15763 Jun 28 22:54	29° © 56'59 0° Ω	
max. Earth dist.	15762 Jul 03 00:16 15762 Jul 06 05:01	25°S00'42 0°Ω	1.45947 AU	arrantant brillianas	15763 Jun 28 23:41	0° λ ι 19° Ω 40'37	-0.7m
avanina riaa				greatest brilliancy	15763 Jul 11 22:38		-0./m
evening rise	15762 Jul 19 01:49	20° Ω 13'31			15763 Jul 19 07:40	0° M)	
araataat hrillianav	15762 Jul 25 06:08 15762 Jul 26 23:00	0° Mp 2° Mp 40′21	-0.8m	asc. node	15763 Jul 19 15:43 15763 Jul 23 18:09	0° Mp 25'40 5° Mp 07'06	19°26'19
greatest brilliancy	15762 Jul 26 25.00 15762 Aug 01 18:57	2 11/4021 11° Mp 33'27	-0.8111	evening max el	15763 Jul 30 21:09	9° m y05'00	19 20 19
asc. node evening max el	15762 Aug 01 18.37 15762 Aug 09 09:48	21° m) 14'52	18°41'08	retrograde evening set	15763 Jul 30 21:09 15763 Aug 03 13:10	7° Mg 47'03	
retrograde	15762 Aug 09 09.48 15762 Aug 15 23:35	21° m) 48'28	16 41 06	inferior conj	15763 Aug 03 13:10 15763 Aug 08 22:20	1° m 54'13	2°54'58
evening set	15762 Aug 15 25:35 15762 Aug 19 05:43	24 11) 48 28 23° M) 47'59		minimum elong	15763 Aug 08 22:20 15763 Aug 08 23:50	1°My 49'18	2°54'17
inferior conj	15762 Aug 19 03.43 15762 Aug 24 20:58	18° M) 08'20	2°29'41	min. Earth dist.	15763 Aug 10 05:40	0° mg 11'02	0.67414 AU
minimum elong	15762 Aug 24 20:38 15762 Aug 24 23:08	18° Mp 01'36	2°28'57	iiiii. Latui dist.	15763 Aug 10 09:04	0 m/11 02 30°RΩ	0.07414 AU
min. Earth dist.	15762 Aug 26 18:26	15° Mp 47'59	0.65914 AU	morning rise	15763 Aug 14 09:56	25° Ω 28'01	
morning rise	15762 Aug 30 15:29	11° m) 43'01	0.03714710	direct	15763 Aug 20 08:06	22° Ω 54'14	
desc. node	15762 Sep 03 09:45	9° m ₂ 30'00		desc. node	15763 Aug 21 07:09	$22^{\circ}\Omega57'50$	
direct	15762 Sep 05 03:45	9° m) 05'04		desc. node	15763 Sep 01 08:54	0°m	
morning max el	15762 Sep 19 03:25	16° m ₂ 52'18	26°44'04	morning max el	15763 Sep 01 08:34 15763 Sep 01 14:32	0° Mp 14'09	25°29'44
morning max cr	15762 Sep 30 02:10	0° ⊡	20 44 04	morning max er	15763 Sep 23 23:47	0∘ ⊽	23 27 44
	15762 Oct 19 06:31	o° m .		morning set	15763 Oct 07 12:34	ა — 22° ჲ 42'52	
morning set	15762 Oct 24 22:03	10°M22'09		max. Earth dist.	15763 Oct 11 02:21	29° ₽ 18'22	1.36093 AU
asc. node	15762 Oct 28 20:28	18°ML02'14		max. Earth dist.	15763 Oct 11 11:11	0°M	1.50075710
max. Earth dist.	15762 Oct 28 22:47	18°ML13'47	1.34053 AU	asc. node	15763 Oct 15 17:13	8°M12'46	
max. Earth dist.	13702 000 20 22.17	10 11015 17	1.5 1055 110	use. Houe	13703 000 13 17.13	0 11012 10	
superior conj	15762 Nov 02 16:14	27°M54'06	0°43'11	superior conj	15763 Oct 17 07:53	11°M24'55	0°14'38
minimum elong	15762 Nov 02 14:11	27°M43'23	0°43'27	minimum elong	15763 Oct 17 07:00	11°M20'28	0°14'58
g	15762 Nov 03 16:14	0°×7	v .52,	behind sun begin	15763 Oct 17 04:38	11°ML08'39	0 1.00
evening rise	15762 Nov 09 23:30	13° ∡ 122'02		behind sun end	15763 Oct 17 09:22	11°M32'18	
e vennig rise	15762 Nov 18 09:03	0°중		evening rise	15763 Oct 25 06:12	27°M36'36	
evening max el	15762 Nov 29 21:15	16° ට 11'46	21°25'06	0.0000	15763 Oct 26 10:19	0° ∡ 7	
desc. node	15762 Nov 30 07:06	16° ට 35'36		evening max el	15763 Nov 11 23:57	26° х 54′12	20°02'05
retrograde	15762 Dec 11 21:58	22° ට 08'48		Z .	15763 Nov 15 18:35	0°ಕ	
evening set	15762 Dec 14 19:59	21° ප් 49'17		desc. node	15763 Nov 17 04:12	0° る 47'58	
inferior conj	15762 Dec 23 13:18	17° ට 58'43	-5°49'50	retrograde	15763 Nov 22 10:27	2° ප 06'19	
minimum elong	15762 Dec 23 07:31	18° පි 06'51	5°48'21	evening set	15763 Nov 24 13:05	1° る 54'33	
min. Earth dist.	15762 Dec 23 22:38	17° る 45'38	0.54401 AU	•	15763 Nov 29 17:52	30°R. ✓	
morning rise	15762 Dec 31 19:29	14° ට 09'17		inferior conj	15763 Dec 03 08:13	27° ₹ ¹56'22	-4°44'21
direct	15763 Jan 04 16:49	13° る 36'28		minimum elong	15763 Dec 02 22:10	28° ∡ 11'32	4°40'46
morning max el	15763 Jan 17 11:44	19° පි 48'50	22°30'42	min. Earth dist.	15763 Dec 05 05:06	26° ∡ ¹48'38	0.54934 AU
asc. node	15763 Jan 24 19:40	28° ප 35'13		morning rise	15763 Dec 11 06:15	23° х 48'51	
	15763 Jan 25 18:51	0° ≈		direct	15763 Dec 16 04:28	22° ∡ ¹56′01	
morning set	15763 Feb 08 10:09	25° ≈ 18′06		morning max el	15763 Dec 29 20:39	29° х¹ 42′23	24°20'39
	15763 Feb 10 14:56	0° ∀			15763 Dec 30 03:59	ರ°0	
				asc. node	15764 Jan 11 16:55	16° る 29'52	
superior conj	15763 Feb 15 10:22	10° ¥ 19'16	1°21'51		15764 Jan 19 02:28	0° ≈ ≈	
minimum elong	15763 Feb 15 12:33	10°) € 30'53	1°21'57	morning set	15764 Jan 23 22:07	10° ≈ 00'44	
max. Earth dist.	15763 Feb 19 02:55	18°) €03'04	1.33843 AU				
evening rise	15763 Feb 23 14:09	26° ¥ 59'54		superior conj	15764 Jan 30 16:58	24° ≈ 51′07	1°32'54
	15763 Feb 25 03:36	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	15764 Jan 30 18:19	24° ≈ 58'32	1°33'22
desc. node	15763 Feb 26 07:40	2° Y 12′28		max. Earth dist.	15764 Feb 02 01:28	29° ≈ 57'56	1.32406 AU
	15763 Mar 15 02:21	$0^{\circ}S$			15764 Feb 02 01:51	0° ∀	
evening max el	15763 Mar 30 09:24	18° 8 50'55	27°05'57	evening rise	15764 Feb 07 05:06	10° ¥ 45′20	
retrograde	15763 Apr 12 20:11	26° 8 21'28		desc. node	15764 Feb 13 04:19	22° ∺ 19'39	
evening set	15763 Apr 19 09:59	23° 8 50'08			15764 Feb 17 11:28	0° Υ	
asc. node	15763 Apr 22 16:40	20° 8 45'51			15764 Mar 09 19:49	0° 8	
min. Earth dist.	15763 Apr 23 07:50	20° 8 04'33	0.65522 AU	evening max el	15764 Mar 11 22:01	2° 8 06'23	27°33'27
inferior conj	15763 Apr 25 14:42	17° 8 28'46	0°53'38	retrograde	15764 Mar 25 17:24	9° 8 36'44	
minimum elong	15763 Apr 25 13:20	17° 8 32'40	0°52'34	evening set	15764 Apr 01 12:26	7° 8 12'35	0.60.50.5 :==
morning rise	15763 May 01 18:17	11° 8 57'08		min. Earth dist.	15764 Apr 05 07:13	3° 8 56'36	0.63606 AU
direct	15763 May 04 13:46	11° 8 14'34	1000111	inferior conj	15764 Apr 08 01:34	1° 8 07'00	
morning max el	15763 May 10 21:12	14° 8 31'23	18°01'43	minimum elong	15764 Apr 08 01:53	1° 8 06'11	0°10'06
	15763 May 22 03:20	0°II		transit middle	15764 Apr 08 01:53	1° 8 06'11	0°10'06
desc. node	15763 May 25 08:59	5° Ⅱ 12'37		transit begin	15764 Apr 07 23:26	1° 8 12'29	
morning set	15763 May 29 05:57	11° I I31'00		transit end	15764 Apr 08 04:19	0° 8 59'55	
	15763 Jun 09 17:21	0ං ව		asc. node	15764 Apr 08 13:59	0° 8 35'16	

	15764 Apr 09 04:01	30° ₹ Υ		direct	15765 Mar 31 10:39	8° Ƴ 58'49	
morning rise	15764 Apr 14 17:46	25° Υ ′50'25		morning max el	15765 Apr 07 07:38	12° Υ 26'11	17°50'26
direct	15764 Apr 17 04:46	25° Y '20'39		morning man vi	15765 Apr 19 04:58	0°8	1, 0020
morning max el	15764 Apr 23 14:42	28° Y '37'03	17°47'08	morning set	15765 Apr 23 00:28	6° 8 47'37	
5 5	15764 Apr 24 22:21	0°8		desc. node	15765 Apr 28 02:38	15° 8 52'44	
morning set	15764 May 10 04:33	23° 8 39'41			F		
desc. node	15764 May 11 05:50	25° 8 27'31		superior conj	15765 May 04 02:22	26° 8 17'26	-0°47'19
	15764 May 13 21:57	0°II		minimum elong	15765 May 03 22:03	25° 8 59'01	
	,			Č	15765 May 06 06:57	0°II	
superior conj	15764 May 22 23:39	15° Ⅱ 04'15	-1°25'04	max. Earth dist.	15765 May 11 07:34	8° Ⅱ 18'27	1.43446 AU
minimum elong	15764 May 22 15:48	14° Ⅲ 32'17	1°24'55	evening rise	15765 May 18 02:30	19° Ⅱ 07'23	
max. Earth dist.	15764 May 28 16:00	24° Ⅱ 11'38	1.44951 AU	Č	15765 May 25 04:53	0° ©	
	15764 Jun 01 08:31	0° ©			15765 Jun 16 00:12	$0^{\circ}\Omega$	
evening rise	15764 Jun 07 09:35	9° 5 20'50		evening max el	15765 Jun 18 17:01	2° Ω 53'51	21°38'40
C	15764 Jun 21 05:00	$\Omega^{\circ}\Omega$		asc. node	15765 Jun 22 09:23	6° Ω 05'16	
asc. node	15764 Jul 05 12:31	18° Ω 40′23		retrograde	15765 Jun 27 18:43	8° Ω 10'52	
evening max el	15764 Jul 05 20:34	19° Ω 00'42	20°26'27	evening set	15765 Jul 02 08:13	6° Ω 18′01	
retrograde	15764 Jul 13 20:08	23° Ω 34'17		inferior conj	15765 Jul 07 13:51	0°Ω02'36	3°08'02
evening set	15764 Jul 17 22:37	21°Ω58'29		minimum elong	15765 Jul 07 13:28	0°Ω03'57	3°07'15
inferior conj	15764 Jul 23 04:42	15° Ω 53'36	3°07'14	min. Earth dist.	15765 Jul 07 17:57	29°5548'16	0.69021 AU
minimum elong	15764 Jul 23 05:17	15° Ω 51'39	3°06'33		15765 Jul 07 14:36	30°Rூ	,
min. Earth dist.	15764 Jul 23 22:10	14°Ω53'42	0.68459 AU	morning rise	15765 Jul 12 18:31	23° © 45'21	
morning rise	15764 Jul 28 11:37	9° Ω 30'39	0.00 127 110	direct	15765 Jul 17 16:56	21°938'36	
direct	15764 Aug 02 22:20	7°Ω07'57		desc. node	15765 Jul 25 01:51	25°\$09'09	
desc. node	15764 Aug 07 04:31	8° Ω 18'58		morning max el	15765 Jul 27 13:33	27° 9 27'47	22°34'17
morning max el	15764 Aug 14 01:22	13° Ω 46'50	24°03'24	morning max er	15765 Jul 29 22:44	0°Ω	22 3417
morning max ci	15764 Aug 27 05:42	0° m)	24 03 24		15765 Aug 20 19:46	0°m)	
	-	0∘ ত بابا		marning got	-	0 iny 14°Mo 46'08	
morning got	15764 Sep 15 20:12	0 <u>≈</u> 4° <u>≈</u> 13'42		morning set max. Earth dist.	15765 Aug 30 04:56	22° m) 49'31	1.40817 AU
morning set	15764 Sep 18 08:09	4 ≥ 13 42 10° ⊆ 42'17	1 20422 ATT	max. Earm dist.	15765 Sep 04 01:35	ე∘ ი	1.4081 / AU
max. Earth dist.	15764 Sep 22 01:18	10-22421/	1.38432 AU		15765 Sep 08 05:51	0-32	
superior conj	15764 Sep 29 11:19	24° ≏ 20'51	-0°18'50	superior conj	15765 Sep 11 22:22	6° ≏ 32'14	-0°55'12
minimum elong	15764 Sep 29 12:37			minimum elong	15765 Sep 12 02:43	6° £ 51′50	
asc. node	15764 Oct 01 13:54	28° £ 23'22	0 10 19	asc. node	15765 Sep 18 10:31	18° ≏ 30'22	0 0 . 2
ase. Houe	15764 Oct 02 09:50	0°M		evening rise	15765 Sep 21 23:29	25° ⊆ 10'13	
evening rise	15764 Oct 02 07:16	11°MJ35'27		evening rise	15765 Sep 24 13:12	0°M	
evening rise	15764 Oct 18 07:09	0° √		evening max el	15765 Oct 07 21:21	20°M45'08	18°22'03
evening max el	15764 Oct 24 16:58	8° ∡ 126'42	19°01'03	retrograde	15765 Oct 15 12:05	24°M37'31	18 22 03
retrograde	15764 Nov 02 13:40	12° x 54'32	19 01 03	evening set	15765 Oct 17 12:33	24°M21'51	
desc. node	15764 Nov 03 01:22	12 x 54 32		desc. node	15765 Oct 17 12:33 15765 Oct 20 22:39	22°M51'28	
evening set	15764 Nov 04 10:51	12 x 33 43		inferior conj	15765 Oct 25 04:24	19°M45'04	1021144
•			2905106	,		19 1143 04 19°M 51'26	
inferior conj	15764 Nov 12 19:30	8° ₹ 27'25 8° ₹ 40'37		minimum elong min. Earth dist.	15765 Oct 25 01:16		1°19'53
minimum elong	15764 Nov 12 11:54				15765 Oct 28 10:22	17°M07'49	0.58264 AU
min. Earth dist.	15764 Nov 15 16:01	6° ₹ 29'00 3° ₹ 46'18	0.56300 AU	morning rise	15765 Nov 01 10:29	14°M26'48	
morning rise	15764 Nov 20 10:13			direct	15765 Nov 07 18:14	12°M42'24	27017117
direct	15764 Nov 26 04:09	2° \$\sqrt{28}'55	26002116	morning max el	15765 Nov 22 01:14	20°M18'34	2/01/1/
morning max el	15764 Dec 10 07:14	9° × ⁷ 42'40	26°02'16		15765 Nov 30 09:42	0° ⊼ ¹	
,	15764 Dec 25 14:38	0°る		asc. node	15765 Dec 15 11:11	24° 🗷 20'31	
asc. node	15764 Dec 28 14:05	5° そ 09'06		•	15765 Dec 18 08:58	0°る	
morning set	15765 Jan 07 09:18	24° る 37'35		morning set	15765 Dec 22 17:53	9° る 02'44	
	15765 Jan 09 20:25	0° ≈		superior conj	15765 Dec 29 14:23	24° る 09'19	1°36'37
	157(5 I 14 02.50	0920102	1027147				1°30′37′ 1°37′24
superior conj	15765 Jan 14 02:59	9° ≈ 30'02	1°37'47	minimum elong	15765 Dec 29 13:40	24° る 05'15	
minimum elong	15765 Jan 14 03:18	9° ≈ 31'50	1°38'29	max. Earth dist.	15765 Dec 29 13:41	24° る 05'26	1.31034 AU
max. Earth dist.	15765 Jan 15 06:08	12°≈00'57	1.31458 AU		15766 Jan 01 05:08	0° ≈	
evening rise	15765 Jan 21 04:15	24°≈50'03		evening rise	15766 Jan 05 09:11	9° ≈ 07'13	
	15765 Jan 23 16:33	0°) {			15766 Jan 16 01:03	0°) {	
desc. node	15765 Jan 30 00:58	12°) €08'10		desc. node	15766 Jan 16 21:41	1°) €29'52	26051115
	15765 Feb 10 01:55	0°Υ ••••••		evening max el	15766 Feb 04 09:58	26°) ₹35′22	26°51'43
evening max el	15765 Feb 22 07:04		27°29'56		15766 Feb 08 11:22	0° Υ	
retrograde	15765 Mar 08 06:34	22° Y ′09'10		retrograde	15766 Feb 18 10:29	3° Y '49'26	
evening set	15765 Mar 15 02:02	19° Y ′59′29		evening set	15766 Feb 24 23:30	2° Υ ′01'25	
min. Earth dist.	15765 Mar 18 20:45	17° Y ′06'49	0.61445 AU		15766 Feb 28 03:32	30° ₹	
inferior conj	15765 Mar 21 23:36	14° Y 17'41		min. Earth dist.	15766 Feb 28 23:58		0.59197 AU
minimum elong	15765 Mar 22 02:42	14° Ƴ 10′39	1°25'36	inferior conj	15766 Mar 04 05:05	26° ¥ 50′19	
asc. node	15765 Mar 26 11:19	10° Ƴ 40′22		minimum elong	15766 Mar 04 11:42	26°) 37′15	2°51'34
morning rise	15765 Mar 29 06:36	9° Ƴ 19'10		morning rise	15766 Mar 12 03:25	22°) (12′22	

1	15766 M 12 00 42	2201/00/05		. ,	15767 F. L. OC 01 11	120 V 12110	
asc. node	15766 Mar 13 08:42	22°) €00'05		evening set	15767 Feb 06 01:11	13° ¥ 13'19	0.55105.444
direct	15766 Mar 14 03:04	21°) 57'54		min. Earth dist.	15767 Feb 10 17:48		0.57105 AU
morning max el	15766 Mar 21 20:22	25°) 47'46	18°12'45	inferior conj	15767 Feb 13 14:41	8° ∺ 36′02	
	15766 Mar 25 10:17	0° Y		minimum elong	15767 Feb 13 23:54	8° ∺ 20'17	4°19'52
morning set	15766 Apr 06 11:49	20° Y 36′56		morning rise	15767 Feb 22 01:33	4° 升 19′26	
	15766 Apr 11 11:55	9° 8		direct	15767 Feb 24 01:57	4°) €07'00	
desc. node	15766 Apr 14 23:19	6° ႘ 23′28		asc. node	15767 Feb 28 06:07	5° ∺ 03'33	
				morning max el	15767 Mar 05 00:50	8° ∺ 30′05	18°55'57
superior conj	15766 Apr 16 03:36	8° 8 31'23	-0°09'44		15767 Mar 18 21:30	$0^{\circ}\mathbf{\Upsilon}$	
minimum elong	15766 Apr 16 02:49	8° 8 27'47	0°10'04	morning set	15767 Mar 21 09:55	4° Y ′54'02	
behind sun begin	15766 Apr 15 20:54	8° 8 01'11					
behind sun end	15766 Apr 16 08:43	8° 8 54'20		superior conj	15767 Mar 29 23:28	21° Y ′34'58	0°23'47
max. Earth dist.	15766 Apr 23 18:00	21° 8 46'41	1.41458 AU	minimum elong	15767 Mar 30 00:57	21° Y '42'00	0°23'18
evening rise	15766 Apr 28 13:12	29° 8 43'23	1.11.00110	desc. node	15767 Apr 01 19:58	26° Y 56'13	0 23 10
evening rise	15766 Apr 28 17:18	0°Ⅱ		dese. Hode	15767 Apr 03 12:00	0°8	
	15766 May 18 16:48	0ಂ ತಾ		max. Earth dist.	15767 Apr 06 00:45	4° 8 32'53	1.39211 AU
avanina may al		16°\$47'23	22°58'31		-	11° 8 15'14	1.39211 AU
evening max el	15766 Jun 01 09:03		22 36 31	evening rise	15767 Apr 09 21:16		
asc. node	15766 Jun 09 06:21	22°524'36			15767 Apr 21 12:38	0°II	
retrograde	15766 Jun 11 15:21	22°5549'05			15767 May 14 06:09	0°©	
evening set	15766 Jun 16 16:17	20°5541'00		evening max el	15767 May 14 22:58	0° 5 42'20	24°19'53
inferior conj	15766 Jun 21 23:48	14°9317'11	2°58'15	retrograde	15767 May 26 08:40	7° © 22'44	
minimum elong	15766 Jun 21 22:33	14° © 21'33	2°57'16	asc. node	15767 May 27 03:26	7° 5 20'07	
min. Earth dist.	15766 Jun 21 14:54	14°9548'04	0.69090 AU	evening set	15767 May 31 21:12	5° 5 02'14	
morning rise	15766 Jun 27 04:42	8° © 07'26			15767 Jun 05 06:49	30° Ŗ Ⅱ	
direct	15766 Jul 01 14:52	6° ॐ 19'22		min. Earth dist.	15767 Jun 05 10:51	29° Ⅱ 46′29	0.68681 AU
morning max el	15766 Jul 10 05:47	11° © 17'44	21°10'25	inferior conj	15767 Jun 06 08:38	28° Ⅲ 33′00	2°38'00
desc. node	15766 Jul 11 23:07	13° © 06'05		minimum elong	15767 Jun 06 06:44	28° Ⅲ 39'26	2°36'47
	15766 Jul 24 21:36	$0^{\circ}\Omega$		morning rise	15767 Jun 11 16:22	22° I I32'07	
morning set	15766 Aug 10 02:10	24° Ω 19'14		direct	15767 Jun 15 14:44	21° I I03'49	
morning sec	15766 Aug 13 16:30	0°m		morning max el	15767 Jun 23 04:29		19°57'41
max. Earth dist.	15766 Aug 17 07:24	5° Mp 49'46	1.42969 AU	morning max ci	15767 Jun 27 08:58	0°95	17 37 41
max. Earth dist.	13/00 Aug 1/ 0/.24	3 1144940	1.42909 AU	desc. node	15767 Jun 28 20:18	1°951'51	
	15766 4 24 12 44	170 m. 5011 C	1020142	desc. node			
superior conj	15766 Aug 24 12:44	17° m 50'16			15767 Jul 18 04:54	0° U	
minimum elong	15766 Aug 24 19:56	18° m 20'54	1°30'06	morning set	15767 Jul 20 07:25	3° Ω 13'22	
	15766 Aug 31 12:48	0∘ ⊽		max. Earth dist.	15767 Jul 30 19:54	19° Ω 37'36	1.44652 AU
evening rise	15766 Sep 05 02:45	8° ≏ 10'39				_	
asc. node	15766 Sep 05 07:09	8° ≏ 30'22		superior conj	15767 Aug 05 03:38	28° Ω 09'23	
	15766 Sep 18 05:34	0°M₊		minimum elong	15767 Aug 05 10:53	28° Ω 38'47	1°59'21
evening max el	15766 Sep 21 08:56	3° M 40′37	18°03'34		15767 Aug 06 06:53	0° m y	
retrograde	15766 Sep 28 03:57	7° ጤ 10'11		evening rise	15767 Aug 18 11:56	20° m 23'17	
evening set	15766 Sep 30 11:31	6° ™ 45'57		asc. node	15767 Aug 23 03:47	28° m 18'43	
inferior conj	15766 Oct 07 10:03	1° M .48'48	0°07'48		15767 Aug 24 03:51	0∘ ত	
minimum elong	15766 Oct 07 10:19	1° M 48'11	0°08'04	evening max el	15767 Sep 04 23:37	17° ≏ 02'13	18°04'04
transit middle	15766 Oct 07 10:19	1° M 48'11	0°08'04	retrograde	15767 Sep 11 09:11	20° ≏ 22'42	
transit begin	15766 Oct 07 07:27	1°M54'53		evening set	15767 Sep 14 01:08	19° ≏ 46'20	
transit end	15766 Oct 07 13:10	1°M41'27		inferior conj	15767 Sep 20 08:46	14° ⊆ 30'45	1°17'43
desc. node	15766 Oct 07 20:01	1°M25'19		minimum elong	15767 Sep 20 10:44		1°17'10
desc. Hode				min. Earth dist.	-	14 = 25 52 11° £ 35'05	0.62803 AU
i. Easth diet	15766 Oct 09 08:10	30°R Ω	0.60526.411		15767 Sep 23 03:05		0.02803 AU
min. Earth dist.	15766 Oct 10 13:51	28° £ 51'56	0.60526 AU	desc. node	15767 Sep 24 17:25	10° Ω 01'44	
morning rise	15766 Oct 14 05:57	25° Ω 59'47		morning rise	15767 Sep 26 18:04	8° ♀ 20'43	
direct	15766 Oct 20 21:10	23° Ω 50'44		direct	15767 Oct 03 10:20	5° ≏ 53'48	
	15766 Nov 02 07:31	0° M		morning max el	15767 Oct 17 10:37	13° ≏ 52'19	27°53'41
morning max el	15766 Nov 04 03:04	1°M42'29	27°55'01		15767 Oct 30 11:33	0°M₊	
	15766 Nov 24 17:54	0° ∡ 7			15767 Nov 17 06:56	0° ∡ ¹	
asc. node	15766 Dec 02 08:12	13° ∡ 55′25		asc. node	15767 Nov 19 05:08	3° х 46′33	
morning set	15766 Dec 06 21:58	23° ∡ 11'43		morning set	15767 Nov 20 19:23	6° ∡ ¹58'56	
	15766 Dec 10 02:24	0°₹		max. Earth dist.	15767 Nov 25 22:53	17° ∡ ¹47'02	1.31847 AU
max. Earth dist.	15766 Dec 12 20:32	6° ප 03'40	1.31159 AU				
				superior conj	15767 Nov 28 09:57	23° ∡ ¹08'30	1°16'18
superior conj	15766 Dec 14 01:22	8° る 44'02	1°29'28	minimum elong	15767 Nov 28 07:44	22° x 56'18	1°16'48
minimum elong		8°る34'57		minimum ciong	15767 Dec 01 12:40	0°る	1 10 40
minimum Civilg	13/bb Dec 13 /3///		1 2010				
•	15766 Dec 13 23:44			Avaning rise	15767 Dag 05 04-22	80 	
evening rise	15766 Dec 20 17:54	23° る 32'25		evening rise	15767 Dec 05 04:32	8°る00'44	
evening rise	15766 Dec 20 17:54 15766 Dec 23 19:07	23° පි 32'25 0°≈			15767 Dec 16 10:01	0° ≈	
•	15766 Dec 20 17:54 15766 Dec 23 19:07 15767 Jan 03 18:29	23° ප 32'25 0°≈ 20°≈15'00		desc. node	15767 Dec 16 10:01 15767 Dec 21 15:23	0° ≈ 8° ≈ 10'04	0.400 111 -
evening rise desc. node	15766 Dec 20 17:54 15766 Dec 23 19:07 15767 Jan 03 18:29 15767 Jan 10 11:47	23°る32'25 0°≈ 20°≈15'00 0°升		desc. node evening max el	15767 Dec 16 10:01 15767 Dec 21 15:23 15767 Dec 29 16:27	0°≈ 8°≈10'04 17°≈46'52	24°04'15
evening rise desc. node evening max el	15766 Dec 20 17:54 15766 Dec 23 19:07 15767 Jan 03 18:29 15767 Jan 10 11:47 15767 Jan 17 04:54	23°る32'25 0°≈ 20°≈15'00 0°升 7°升33'18	25°40'06	desc. node evening max el retrograde	15767 Dec 16 10:01 15767 Dec 21 15:23 15767 Dec 29 16:27 15768 Jan 12 05:52	0°≈ 8°≈10'04 17°≈46'52 24°≈30'49	24°04'15
evening rise desc. node	15766 Dec 20 17:54 15766 Dec 23 19:07 15767 Jan 03 18:29 15767 Jan 10 11:47	23°る32'25 0°≈ 20°≈15'00 0°升	25°40'06	desc. node evening max el	15767 Dec 16 10:01 15767 Dec 21 15:23 15767 Dec 29 16:27	0°≈ 8°≈10'04 17°≈46'52	24°04'15

15769 Nov 15 11:46

15769 Nov 21 21:16

evening max el

8°る00'06 20°47'16

15768 Dec 12 16:57

15768 Dec 22 20:31

retrograde

0°≈

4°≈01'07

desc. node	15769 Nov 24 09:26	10°る13'13			15770 Oct 22 18:29	0° ∡ 7	
retrograde	15769 Dec 03 06:43	10 3 13 13		evening max el	15770 Oct 22 18:29 15770 Nov 04 06:13	19° ∡ 03′27	19°33'28
evening set	15769 Dec 05 18:31	13°る3929		desc. node	15770 Nov 04 00:15	23° x 33'38	19 33 26
inferior conj	15769 Dec 14 14:09	9° る 31'48	5020115	retrograde	15770 Nov 11 00.33	23° x '55'06	
-				Č			
minimum elong	15769 Dec 14 05:35	9° る 44'06	5°25'48	evening set	15770 Nov 15 22:56	23° x 45'22	100.412.0
min. Earth dist.	15769 Dec 15 15:22	8°る55'36	0.54509 AU	inferior conj	15770 Nov 24 14:54	19° х 40'51	
morning rise	15769 Dec 22 16:39	5° る 37'04		minimum elong	15770 Nov 24 05:19	19° ₹ 56'08	4°00'36
direct	15769 Dec 27 00:39	4°る56'43		min. Earth dist.	15770 Nov 26 23:45	18° √ 10′22	0.55420 AU
morning max el	15770 Jan 09 06:32	11° る 24'31	23°17'14	morning rise	15770 Dec 02 09:47	15° √ 19'55	
asc. node	15770 Jan 18 22:09	23° る 26'40		direct	15770 Dec 07 17:02	14° ∡ 16'57 −	
	15770 Jan 22 21:50	0° ≈		morning max el	15770 Dec 21 15:10	21° ∡ 16'33	25°05'56
morning set	15770 Feb 01 12:22	18°≈55'25			15770 Dec 29 04:25	0° ろ	
	15770 Feb 06 15:13	0° ∀		asc. node	15771 Jan 05 19:21	11° る 41'29	
					15771 Jan 15 07:43	0° ≈	
superior conj	15770 Feb 08 09:45	3° ¥ 50′05	1°27'17	morning set	15771 Jan 17 00:11	3° ≈ 35'42	
minimum elong	15770 Feb 08 11:37	4° ∺ 00'10	1°27'34				
max. Earth dist.	15770 Feb 11 12:28	10° ¥ 27'57	1.33173 AU	superior conj	15771 Jan 23 18:04	18° ≈ 25'31	1°35'43
evening rise	15770 Feb 16 06:15	20° ∺ 09'11		minimum elong	15771 Jan 23 19:00	18° ≈ 30'40	1°36'17
desc. node	15770 Feb 20 09:50	28° ∺ 08′02		max. Earth dist.	15771 Jan 25 13:38	22° ≈ 24'52	1.31939 AU
	15770 Feb 21 10:01	0 ° Υ			15771 Jan 29 02:18	0° ∀	
	15770 Mar 12 09:24	$_{0\circ}$ 8		evening rise	15771 Jan 31 00:59	4°) €03'21	
evening max el	15770 Mar 22 15:35	11° 8 53'13	27°20'54	desc. node	15771 Feb 07 06:29	18°) (07'47	
retrograde	15770 Apr 05 06:41	19° 8 25'21			15771 Feb 14 03:32	0° Y	
evening set	15770 Apr 11 23:17	16° 8 55'49		evening max el	15771 Mar 05 02:57	24° Y ′54'17	27°36'02
min. Earth dist.	15770 Apr 15 19:25	13° 8 23'37	0.64749 AU		15771 Mar 11 13:44	0°B	
asc. node	15770 Apr 16 19:07	12° 8 19'54		retrograde	15771 Mar 19 00:59	2° 8 23'19	
inferior conj	15770 Apr 18 07:32	10° 8 40'02	0°28'23	evening set	15771 Mar 25 20:40	0° 8 04'27	
minimum elong	15770 Apr 18 06:45	10° 8 42'11	0°27'35	8	15771 Mar 25 23:17	30°RƳ	
morning rise	15770 Apr 24 16:12	5° 8 14'47		min. Earth dist.	15771 Mar 29 14:54	26° Y ′59'08	0.62704 AU
direct	15770 Apr 27 07:51	4° 8 38'12		inferior conj	15771 Apr 01 13:23	24° Υ '07'37	
morning max el	15770 May 03 15:26	7° 8 53'23	17°53'22	minimum elong	15771 Apr 01 14:45	24° Υ '04'17	0°40'37
morning max or	15770 May 18 18:55	0°II	1, 33 22	asc. node	15771 Apr 03 16:27	22°Υ07'14	0 1037
desc. node	15770 May 19 11:16	1° I I07'50		morning rise	15771 Apr 08 11:40	18° Y 58'21	
morning set	15770 May 21 02:58	3° I 52'43		direct	15771 Apr 10 19:21	18° Υ 33'09	
morning set	13770 May 21 02.36	3 Д3243		morning max el	15771 Apr 10 19.21 15771 Apr 17 09:07	21° Υ 53'13	17°46'15
superior conj	15770 Jun 03 23:16	26° Ⅲ 27'33	1044'25	morning max er	15771 Apr 17 09:07 15771 Apr 23 16:13	0° 8	17 4013
minimum elong	15770 Jun 03 14:33	26 H2733 25°H52'52		marning sat	15771 Apr 23 16.13	16° 8 28'54	
minimum elong			1 44 24	morning set	•		
To all the	15770 Jun 06 04:50	0.20 0.20	1 45520 411	desc. node	15771 May 06 08:06	21° 8 27'35	
max. Earth dist.	15770 Jun 08 05:55		1.45530 AU		15771 May 11 07:27	Π $^{\circ}0$	
evening rise	15770 Jun 19 21:43	21°9516'44			15771) (15 10 00	70 T 02114	1000104
	15770 Jun 25 15:12	0°N		superior conj	15771 May 15 12:22	7° Ⅱ 03'14	
greatest brilliancy	15770 Jul 04 11:06	13° Ω 08′22	-0.6m	minimum elong	15771 May 15 05:51	6° Ⅱ 36'12	
asc. node	15770 Jul 13 17:55	25° Ω 36′18		max. Earth dist.	15771 May 21 23:25	17° Ⅱ 34'34	1.44379 AU
evening max el	15770 Jul 16 06:42	28° Ω 21'32	19°50'14		15771 May 29 21:18	0°©	
	15770 Jul 18 01:46	0° m)		evening rise	15771 May 30 09:09	0° © 45'39	
retrograde	15770 Jul 23 17:52	2° My 33'55			15771 Jun 19 06:21	0 $^{\circ}\Omega$	
evening set	15770 Jul 27 14:09	1° m 08'30		evening max el	15771 Jun 29 06:34	12° Ω 15′22	20°55'59
	15770 Jul 28 21:59	30°R Ω		asc. node	15771 Jun 30 14:45	13° Ω 31'46	
inferior conj	15770 Aug 01 21:40	25° Ω 10′18	3°01'40	retrograde	15771 Jul 07 16:51	17° Ω 06′50	
minimum elong	15770 Aug 01 22:47	25° Ω 06'33	3°01'00	evening set	15771 Jul 11 23:52	15° Ω 23'52	
min. Earth dist.	15770 Aug 02 23:05	23° Ω 44'50	0.67908 AU	inferior conj	15771 Jul 17 05:29	9° Ω 14'28	3°08'53
morning rise	15770 Aug 07 06:57	18° Ω 44'48		minimum elong	15771 Jul 17 05:38	9° Ω 13'56	3°08'11
direct	15770 Aug 13 00:18	16° Ω 14'56		min. Earth dist.	15771 Jul 17 17:18	8° N 33'30	0.68757 AU
desc. node	15770 Aug 15 09:38	16° Ω 37'19		morning rise	15771 Jul 22 11:07	2° Ω 53'33	
morning max el	15770 Aug 24 19:58	23° Ω 19'48	24°53'56	direct	15771 Jul 27 16:44	0° Ω 36′53	
	15770 Aug 30 18:02	0° m)		desc. node	15771 Aug 02 07:00	2° Ω 39'13	
	15770 Sep 20 15:37	0० ত		morning max el	15771 Aug 07 06:55	6° Ω 55'28	23°25'15
morning set	15770 Sep 29 14:00	15° ≏ 04'18			15771 Aug 25 06:17	0° ™	
max. Earth dist.	15770 Oct 03 02:50	21° ≏ 26′07	1.37055 AU	morning set	15771 Sep 11 00:13	26° Mp 10'46	
	15770 Oct 07 16:19	0° M,			15771 Sep 13 06:25	0∘ ⊽	
				max. Earth dist.	15771 Sep 15 01:12	3° ჲ 04'07	1.39457 AU
superior conj	15770 Oct 09 21:57	4°M20'15	0°00'58				
minimum elong	15770 Oct 09 21:52	4° ጤ 19'50	0°01'22	superior conj	15771 Sep 22 18:57	16° ≏ 58'21	-0°34'04
behind sun begin				minimum alana	15771 Sep 22 21:29	17° ≏ 10'05	0033128
	15770 Oct 09 15:20	3° M ₊47'49		minimum elong	13//1 Sep 22 21.29	17 -1003	0 33 20
behind sun end	15770 Oct 09 15:20 15770 Oct 10 04:25	3°11.47'49 4°11.51'56		asc. node	15771 Sep 22 21:29 15771 Sep 26 16:04	24° ⊆ 17'06	0 33 20
behind sun end asc. node				_	•		0 33 20
	15770 Oct 10 04:25	4°M51'56		_	15771 Sep 26 16:04	24° ≏ 17'06	0 33 20

	15771 Oct 17 07:10	0° ∡ 7		evening rise	15772 Sep 14 13:35	18° ≏ 06'52	
evening max el	15771 Oct 17 07:10	0° ₹ 56'28	18°41'55	evening rise	15772 Sep 14 15:55 15772 Sep 21 02:55	0°M	
retrograde	15771 Oct 26 11:10	5°×707'16	10 1133	evening max el	15772 Sep 30 12:35	13°M31'21	18°11'45
evening set	15771 Oct 28 09:12	4° √ 54'35		retrograde	15772 Oct 07 17:28	17°M12'16	10 11 10
desc. node	15771 Oct 29 03:49	4° х 42′34		evening set	15772 Oct 09 20:50	16°M53'19	
inferior conj	15771 Nov 05 11:05	0° х 30′11	-2°20'21	desc. node	15772 Oct 15 01:07	13°M55'49	
minimum elong	15771 Nov 05 05:23	0° ∡ ¹40'45	2°17'25	inferior conj	15772 Oct 17 05:05	12° M 07'19	-0°41'30
Č	15771 Nov 06 03:19	30°RM		minimum elong	15772 Oct 17 03:36	12°M10'32	0°40'23
min. Earth dist.	15771 Nov 08 13:27	28°M13'13	0.57085 AU	min. Earth dist.	15772 Oct 20 11:11	9° ™ 19'29	0.59211 AU
morning rise	15771 Nov 12 22:23	25°M33'16		morning rise	15772 Oct 24 07:01	6°M35'09	
direct	15771 Nov 18 23:17	24°ML04'07		direct	15772 Oct 30 18:46	4°M39'58	
	15771 Dec 01 14:07	0°∡7		morning max el	15772 Nov 14 01:37	12°M22'43	27°38'19
morning max el	15771 Dec 03 04:16	1° ∡ ¹27'52	26°38'10		15772 Nov 27 23:34	0° ∡ 7	
	15771 Dec 23 08:49	ರ°ರ		asc. node	15772 Dec 09 13:34	19° ∡ 57′26	
asc. node	15771 Dec 23 16:30	0° る 35'12			15772 Dec 14 13:38	8°0	
morning set	15772 Jan 01 10:28	18° る 07'29		morning set	15772 Dec 15 17:26	2° る 26'15	
	15772 Jan 06 19:50	0° ≈		max. Earth dist.	15772 Dec 22 03:52	16° පි 32'42	1.31020 AU
	15772 I 00 04.54	290 00 4150	1020102		15772 D 22 16:22	17° る 42'38	1°34'20
superior conj	15772 Jan 08 04:54 15772 Jan 08 04:46	3°≈04'50	1°38'02	superior conj	15772 Dec 22 16:22	17° 5 42'38	
minimum elong max. Earth dist.	15772 Jan 08 04:46 15772 Jan 08 19:57	3°≈04'07 4°≈28'53	1°38'46 1.31215 AU	minimum elong	15772 Dec 22 15:14 15772 Dec 28 05:04	0°≈	1-35/05
evening rise	15772 Jan 08 19.57 15772 Jan 15 02:53	4 ≈28 33 18°≈13'53	1.31213 AU	avanina risa	15772 Dec 28 03:04 15772 Dec 29 09:42	0 ≈ 2°≈35'11	
evening rise	15772 Jan 20 22:29	18 ≈13 33 0° ∺		evening rise desc. node	15772 Dec 29 09.42 15773 Jan 10 23:55	2 ≈33 11 26°≈53'20	
desc. node	15772 Jan 25 03:10	0		desc. Hode	15773 Jan 10 23:33	20 ≈33 20 0° H	
desc. flode	15772 Feb 08 20:13	0° Υ		evening max el	15773 Jan 27 09:48	18°) 42'54	26°25'04
evening max el	15772 Feb 15 09:57	7° Υ 14'12	27°18'06	retrograde	15773 Feb 10 09:20	25° H 50'56	20 23 04
retrograde	15772 Feb 13 09:37 15772 Feb 29 10:21	14° Y 33'50	27 1800	evening set	15773 Feb 16 17:23	24°) 14'01	
evening set	15772 Mar 07 03:50	12° Υ 32'57		min. Earth dist.	15773 Feb 20 23:12	21°) 36'38	0.58276 AU
min. Earth dist.	15772 Mar 11 00:17	9° Υ 47'05	0.60485 AU	inferior conj	15773 Feb 24 02:21	19°) 17'40	
inferior conj	15772 Mar 14 04:53	7° Υ '03'29		minimum elong	15773 Feb 24 10:20	19°) €02'50	
minimum elong	15772 Mar 14 09:26	6°Υ53'43	2°01'06	morning rise	15773 Mar 04 06:36	14°) (48'45	3 2721
asc. node	15772 Mar 14 03:20 15772 Mar 20 13:50	2° Υ 38'01	2 01 00	direct	15773 Mar 06 05:56	14°) (35'31	
morning rise	15772 Mar 21 18:26	2°Υ13'03		asc. node	15773 Mar 07 11:15	14°) 40'47	
direct	15772 Mar 23 20:11	1° Y 55'38		morning max el	15773 Mar 14 10:26	18°) 37′54	18°28'26
morning max el	15772 Mar 31 00:40	5° Υ 31'25	17°57'27	morning max or	15773 Mar 22 16:31	0°Υ	10 20 20
morning set	15772 Apr 15 14:37	29° Y ′56'33	1, 3, 2,	morning set	15773 Mar 30 07:07	13° Y 59'44	
. 8	15772 Apr 15 15:22	0°8		8 2 2 2	15773 Apr 07 17:30	0°8	
desc. node	15772 Apr 22 04:50	11° 8 55'22			ī		
	1			superior conj	15773 Apr 08 10:46	1° 8 19'48	0°05'08
superior conj	15772 Apr 26 01:00	18° 8 42'52	-0°31'03	minimum elong	15773 Apr 08 11:07	1° 8 21'23	0°04'42
minimum elong	15772 Apr 25 22:17	18° 8 31'03	0°31'11	behind sun begin	15773 Apr 08 04:14	0° 8 49'38	
	15772 May 02 16:05	Π $\circ 0$		behind sun end	15773 Apr 08 18:00	1° 8 53'03	
max. Earth dist.	15772 May 03 13:05	1° Ⅱ 26′58	1.42651 AU	desc. node	15773 Apr 09 01:31	2° 8 27'33	
evening rise	15772 May 09 08:49	10° Ⅲ 51'41		max. Earth dist.	15773 Apr 15 22:17	14° 8 39'39	1.40527 AU
	15772 May 21 22:30	0 \circ \odot		evening rise	15773 Apr 20 04:37	21° 8 51'44	
evening max el	15772 Jun 11 01:03	26° © 09'03	22°12'03		15773 Apr 25 05:10	Π $^{\circ}0$	
	15772 Jun 15 15:10	$0^{\circ}\Omega$			15773 May 15 23:31	0 \circ \odot	
asc. node	15772 Jun 16 11:42	0° Ω 31′01		evening max el	15773 May 24 15:56	10° © 03'03	23°33'13
retrograde	15772 Jun 20 14:38	1° Ω 44'42		asc. node	15773 Jun 03 08:43	16° © 17'02	
evening set	15772 Jun 25 09:01	29° 5 45'07		retrograde	15773 Jun 04 09:57	16° 5 21'48	
	15772 Jun 25 01:47	30° ₹ 5		evening set	15773 Jun 09 15:58	14° © 07'47	
inferior conj	15772 Jun 30 15:13	23° 5 26'06	3°05'07	min. Earth dist.	15773 Jun 14 10:28	8° 93 0'57	0.68984 AU
minimum elong	15772 Jun 30 14:26	23° © 28'49	3°04'16	inferior conj	15773 Jun 15 00:55	7° 5 41'18	2°50'55
min. Earth dist.	15772 Jun 30 13:47	23° © 31'04	0.69118 AU	minimum elong	15773 Jun 14 23:22	7° 5 46'41	2°49'50
morning rise	15772 Jul 05 19:41	17° © 12'00		morning rise	15773 Jun 20 06:44	1° © 35'25	
direct	15772 Jul 10 12:59	15°5512'48			15773 Jun 23 14:48	30°RⅡ	
desc. node	15772 Jul 19 04:18	20°500'02		direct	15773 Jun 24 11:50	29° ∏ 55'52	
morning max el	15772 Jul 19 20:21	20° © 39'22	21°57'32		15773 Jun 25 09:16	0° ©	
	15772 Jul 27 19:00	Ω°		morning max el	15773 Jul 02 15:13	4°533'44	20°37'51
• ,	15772 Aug 17 11:12	0° Mp		desc. node	15773 Jul 06 01:33	8° © 19'21	
morning set	15772 Aug 21 10:38	6° Mp 16'21	1 41806 : **		15773 Jul 21 18:31	0°N	
max. Earth dist.	15772 Aug 27 03:49	15° m 34'39	1.41786 AU	morning set	15773 Jul 31 23:29	15° Ω 28'24	1 40561 : **
	15770 9 02 21 42	200m. 4715	1010140	max. Earth dist.	15773 Aug 09 13:03	28° Ω 58'08	1.43761 AU
superior conj	15772 Sep 03 21:43	28° Mp 47'55			15773 Aug 10 04:25	0° m	
minimum elong	15772 Sep 04 03:25	29° Mp 12'57	1~09'56		15772 4 16 02 11	00 m. 4011 7	1044100
000 m-J-	15772 Sep 04 14:06	0° <u>დ</u>		superior conj	15773 Aug 16 02:11	9° Mp 40'17	
asc. node	15772 Sep 12 12:42	14° ≏ 21'22		minimum elong	15773 Aug 16 09:57	10° Mp 12'36	1 43 43

	15773 Aug 27 22:46	0 ∘ ⊽		max. Earth dist.	15774 Jul 23 03:52	13° Ω 01'33	1.45175 AU
evening rise	15773 Aug 28 09:51	0° ჲ 48'34					
asc. node	15773 Aug 30 09:20	4° £ 16'46		superior conj	15774 Jul 27 07:23	19° Ω 35'41	
evening max el	15773 Sep 14 01:52	26° £ 38'17	18°01'26	minimum elong	15774 Jul 27 13:04	19° Ω 58′21	2°07'55
retrograde	15773 Sep 19 22:02 15773 Sep 20 15:46	0° ጤ 0° ጤ 02'41		evening rise	15774 Aug 02 18:16 15774 Aug 10 09:47	0°Mp 12°Mp37′26	
retrograde	15773 Sep 20 13.40 15773 Sep 21 09:33	0 11602 41 30°RΩ		asc. node	15774 Aug 10 09.47 15774 Aug 17 05:59	23° M) 58'56	
evening set	15773 Sep 23 02:44	29° £ 33'42		use. Hode	15774 Aug 21 00:25	0° ⊽	
inferior conj	15773 Sep 29 18:30	24° £ 28'07	0°39'57	evening max el	15774 Aug 28 16:45	10° ♀ 08'14	18°09'46
minimum elong	15773 Sep 29 19:41	24° ≏ 25'11	0°39'47	retrograde	15774 Sep 04 01:25	13° ≏ 29'18	
desc. node	15773 Oct 01 22:30	22° ≏ 18'28		evening set	15774 Sep 06 20:59	12° ≏ 47'04	
min. Earth dist.	15773 Oct 02 18:48	21° ≏ 29'24	0.61505 AU	inferior conj	15774 Sep 12 23:20	7° £ 24'31	1°41'24
morning rise	15773 Oct 06 09:50	18° ≏ 28'42		minimum elong	15774 Sep 13 01:35	7° ≏ 18'14	1°40'43
direct	15773 Oct 13 02:00	16° £ 11′20		min. Earth dist.	15774 Sep 15 12:27	4° £ 34'38	0.63714 AU
morning max el	15773 Oct 27 06:26	24° £ 07'16	27°59'14	desc. node	15774 Sep 18 19:55	1° £ 24'31	
	15773 Nov 01 14:24 15773 Nov 21 08:08	0° M 0° ∡ 1		morning rise	15774 Sep 19 04:15	1° £ 08'04	
asc. node	15773 Nov 26 10:32	0 x . 9° ∡ 739'40		direct	15774 Sep 20 20:37 15774 Sep 25 19:10	30°RMp 28°Mp35'55	
morning set	15773 Nov 20 10:52 15773 Nov 29 18:57	16° ₹ 26'16		direct	15774 Oct 01 03:20	0° ⊡	
max. Earth dist.	15773 Dec 05 09:24	28° × ⁷ 25'46	1.31379 AU	morning max el	15774 Oct 09 15:51	° - 6° - 35'19	27°42'10
	15773 Dec 06 02:30	0°ರ		3 3	15774 Oct 27 14:26	0° M	
				asc. node	15774 Nov 13 07:25	29°M36'08	
superior conj	15773 Dec 07 02:32	2° る 12'55	1°24'38	morning set	15774 Nov 13 12:45	0° ∡ ¹02'43	
minimum elong	15773 Dec 07 00:36	2° る 02'13	1°25'15		15774 Nov 13 12:12	0°⊀	
evening rise	15773 Dec 13 19:26	17° පි 01'36		max. Earth dist.	15774 Nov 18 08:40	10° ∡ ¹00′29	1.32307 AU
	15773 Dec 20 02:11	0° ≈				=	
desc. node	15773 Dec 28 20:45	15°≈18'47	25001124	superior conj	15774 Nov 21 09:28	16° ₹ 31'15	1°08'51
evening max el	15774 Jan 09 00:59 15774 Jan 09 18:50	29°≈18'28 0° ℋ	25°01'24	minimum elong	15774 Nov 21 07:08 15774 Nov 27 13:42	16° ₰ 18'34 0° ठ	1°09'18
retrograde	15774 Jan 22 20:16	6° 		evening rise	15774 Nov 28 06:17	0 3 1° 3 29'29	
evening set	15774 Jan 28 09:36	5° H 04'19		evening rise	15774 Nov 28 00:17 15774 Dec 13 17:17	1°⊗2929	
min. Earth dist.	15774 Feb 02 13:09	2°) 19'43	0.56328 AU	desc. node	15774 Dec 15 17:40	2°≈47'06	
inferior conj	15774 Feb 05 02:49	0°) 40′32	-4°56'48	evening max el	15774 Dec 21 10:40	9° ≈ 19'12	23°20'02
minimum elong	15774 Feb 05 12:04	0°) €25'39	4°54'04	retrograde	15775 Jan 03 17:53	15° ≈ 54'24	
	15774 Feb 06 04:10	30° R ≈		evening set	15775 Jan 08 03:07	15° ≈ 12'44	
morning rise	15774 Feb 13 17:04	26° ≈ 33'05		min. Earth dist.	15775 Jan 14 21:18	12° ≈ 01'56	0.54952 AU
direct	15774 Feb 15 20:21	26° ≈ 20'12		inferior conj	15775 Jan 16 07:13	11° ≈ 12'50	
asc. node	15774 Feb 22 08:40	28°≈28'55		minimum elong	15775 Jan 16 11:55	11°≈06'01	5°51'37
	15774 Feb 24 08:11	0° ∀	10021117	morning rise	15775 Jan 24 22:08	7°≈21'03	
morning max el morning set	15774 Feb 25 10:07 15774 Mar 14 08:38	0° 	19°21'17	direct morning max el	15775 Jan 27 15:44 15775 Feb 07 19:51	7°≈03'07 12°≈26'39	20°37'23
morning set	15774 Mar 15 03:40	26 γ (2433		asc. node	15775 Feb 09 06:02	12 ≈20 39 13°≈54'09	20 37 23
	13774 14141 13 03.40	V 1		use. Hode	15775 Feb 20 01:22	0° ∺	
superior conj	15774 Mar 22 13:15	14° Ƴ 40'59	0°36'14	morning set	15775 Feb 26 15:57	13°) €02'50	
minimum elong	15774 Mar 22 15:17	14° Ƴ 50'53	0°35'46	C			
desc. node	15774 Mar 26 22:09	22° Y 59'53		superior conj	15775 Mar 06 04:09	28°) 34′24	1°01'10
max. Earth dist.	15774 Mar 29 04:24	27° Ƴ 09'12	1.38232 AU	minimum elong	15775 Mar 06 06:43	28°) (47′27	1°00'54
	15774 Mar 30 18:21	0°8			15775 Mar 06 21:02	0°Υ	
evening rise	15774 Apr 01 21:24	3° 8 45'12		max. Earth dist.	15775 Mar 11 11:54	9° Y 08'02	1.36021 AU
·	15774 Apr 18 07:21	0°II	24952107	desc. node	15775 Mar 13 18:46	13° Y 28'46	
evening max el	15774 May 07 05:22 15774 May 15 07:24	23° Ⅱ 57'20 0° ⑤	24°53'06	evening rise	15775 Mar 15 08:34 15775 Mar 23 02:53	16° Y 24'13 0° ႘	
retrograde	15774 May 15 07.24 15774 May 19 01:39	0 ಳು 0°951'48			15775 Apr 12 17:55	0°II	
asc. node	15774 May 15 01:55 15774 May 21 05:51	0°931'51		evening max el	15775 Apr 19 18:56	7° ∏ 49'03	26°04'26
use. Houe	15774 May 22 12:51	30°R Ⅱ		retrograde	15775 May 02 12:36	15° I 07'13	20 0.20
evening set	15774 May 24 19:04	28° Ⅱ 26'49		asc. node	15775 May 08 03:03	13° Ⅱ 02'47	
min. Earth dist.	15774 May 29 05:19	23° Ⅱ 26′54	0.68365 AU	evening set	15775 May 08 16:32	12° Ⅲ 36′00	
inferior conj	15774 May 30 08:43	21° Ⅱ 56′14	2°26'12	min. Earth dist.	15775 May 12 20:11	8° Ⅱ 11'52	0.67285 AU
minimum elong	15774 May 30 06:38	22° II 03'07	2°24'53	inferior conj	15775 May 14 12:30	6° Ⅱ 06'08	1°50'16
morning rise	15774 Jun 04 18:29	15° Ⅱ 59'39		minimum elong	15775 May 14 10:22	6° Ⅱ 12'49	1°48'53
direct	15774 Jun 08 11:55	14° Ⅱ 39'56	10001:00	morning rise	15775 May 20 04:56	0° Ⅱ 20'06	
morning max el	15774 Jun 15 17:11	18° Ⅱ 38'45	19°31'03	T	15775 May 20 19:11	30°R 8	
desc. node	15774 Jun 22 22:42	27° Ⅱ 21'43 0° ⑤		direct	15775 May 23 11:37	29° ႘ 18'58 0° 川	
greatest brilliancy	15774 Jun 24 20:19 15774 Jun 28 09:12	0°9 5°905'46	-0.6m	morning max el	15775 May 26 06:08 15775 May 30 02:07	0°П 2°П50'55	18°39'50
morning set	15774 Jul 11 03:10	24°920'44	0.0111	desc. node	15775 Jun 09 19:45	2 H 50 55 16° H 55′29	10 37 30
B	15774 Jul 14 19:17	0°Ω			15775 Jun 18 07:27	0°99	

morning set	15775 Jun 20 17:49	3° © 47'48		superior conj	15776 Jun 15 05:51	8° © 10'03	-2°00'01
max. Earth dist.	15775 Jul 05 22:33	27° © 30'07	1.45905 AU	minimum elong	15776 Jun 14 22:06	7° © 39'38	2°00'21
				max. Earth dist.	15776 Jun 17 19:13	12° © 10'16	1.45888 AU
superior conj	15775 Jul 06 19:36	28° © 52'17	-2°13'49		15776 Jun 29 06:58	0 $^{\circ}$ Ω	
minimum elong	15775 Jul 06 18:10	28° © 46'41	2°14'35	evening rise	15776 Jul 01 08:57	3° £ 12′53	
	15775 Jul 07 12:57	$0^{\circ}\Omega$		greatest brilliancy	15776 Jul 13 16:20	21° Ω 59'43	-0.7m
evening rise	15775 Jul 22 09:02	23° Ω 23′03			15776 Jul 19 05:58	0° m)	
	15775 Jul 26 12:44	o∘ m p		asc. node	15776 Jul 20 23:23	2° Mp 18'18	
greatest brilliancy	15775 Jul 29 05:07	4° m 15'18	-0.9m	evening max el	15776 Jul 25 15:04	7° mp 43'12	19°18'31
asc. node	15775 Aug 04 02:40	13° m 21'40		retrograde	15776 Aug 01 15:32	11° Mp 36'36	
evening max el	15775 Aug 12 05:59	23° m 51'59	18°35'47	evening set	15776 Aug 05 06:04	10° mp 21'13	
retrograde	15775 Aug 18 18:22	27° m/22'48		inferior conj	15776 Aug 10 15:57	4° m/ 30'09	2°51'59
evening set	15775 Aug 21 23:09	26° m) 24'45		minimum elong	15776 Aug 10 17:34	4° m/24'51	2°51'18
inferior conj	15775 Aug 27 15:34	20° mp 47'13	2°24'33	min. Earth dist.	15776 Aug 12 01:20	2° Mp 41'06	0.67222 AU
minimum elong	15775 Aug 27 17:49	20° mp 40'22	2°23'47	mm. Darm dist.	15776 Aug 14 06:11	30°R Ω	0.07222710
min. Earth dist.	15775 Aug 29 15:08	18° Mp 22'10	0.65659 AU	morning rise	15776 Aug 16 04:27	28° Ω 03'49	
morning rise	15775 Sep 02 11:20	14° m/22'38	0.03037 AC	direct	15776 Aug 10 04:27 15776 Aug 22 04:09	25° Ω 29'06	
desc. node	•			desc. node		25° Ω 29'51	
	15775 Sep 05 17:21	12° Tp 21'35		desc. node	15776 Aug 22 14:46		
direct	15775 Sep 08 20:20	11° Mp 44'49	26052120		15776 Aug 31 11:58	0°M) 2°M>53145	25041146
morning max el	15775 Sep 22 02:59	19° Mp 34'16	26°53′28	morning max el	15776 Sep 03 14:13	2° m 53'45	25°41'46
	15775 Oct 01 01:01	0∘ ⊽			15776 Sep 24 05:38	0∘ ⊽	
	15775 Oct 20 15:35	0° M		morning set	15776 Oct 09 12:49	25° ≙ 35'10	
morning set	15775 Oct 27 19:52	13°M08'20			15776 Oct 11 22:10	0°M₊	
asc. node	15775 Oct 31 04:13	19° M 41'18		max. Earth dist.	15776 Oct 13 03:40	2°M19'02	1.35766 AU
max. Earth dist.	15775 Oct 31 22:48	21°M14'29	1.33791 AU	asc. node	15776 Oct 17 00:55	9°M51'02	
superior conj	15775 Nov 05 10:52	0° ∡ 31'13	0°47'00	superior conj	15776 Oct 19 04:00	14°M06'04	0°19'19
minimum elong	15775 Nov 05 08:43	0° ₰ 19'56	0°47'19	minimum elong	15776 Oct 19 02:52	14°M00'22	0°19'37
	15775 Nov 05 04:55	0° ∡ 7		evening rise	15776 Oct 26 23:41	0° ≯ 10′06	
evening rise	15775 Nov 12 16:22	15° ∡ ′53'58			15776 Oct 26 21:43	0° ∡ ¹	
	15775 Nov 19 16:15	8°0		evening max el	15776 Nov 13 23:57	29° ₹ 55'18	20°13'05
desc. node	15775 Dec 02 14:41	18° る 58'20			15776 Nov 14 01:50	0°₹	
evening max el	15775 Dec 02 23:27	19° る 20'09	21°39'03	desc. node	15776 Nov 18 11:47	3° ₹ 28'14	
retrograde	15775 Dec 15 04:54	25° る 22'54		retrograde	15776 Nov 24 16:24	5° ರ 14'34	
evening set	15775 Dec 18 07:12	25° පි 01'14		evening set	15776 Nov 26 20:58	5° る 02'12	
inferior conj	15775 Dec 26 23:12	21° る 10'45	-5°54'59	inferior conj	15776 Dec 05 16:38	1° る 05'43	-4°57'09
minimum elong	15775 Dec 26 18:40	21° る 17'05		minimum elong	15776 Dec 05 06:43	1°る20'26	
min. Earth dist.	15775 Dec 27 02:44	21°る05'48	0.54403 AU	min. Earth dist.	15776 Dec 07 08:42	0° ප 06'11	0.54794 AU
morning rise	15776 Jan 04 06:43	17° る 22'28			15776 Dec 07 12:55	30°R <i>X</i> ⁷	
direct	15776 Jan 08 00:20	16° る 52'03		morning rise	15776 Dec 13 15:47	27° ₹ 02'14	
morning max el	15776 Jan 20 14:46	22° る 58'21	22°14'52	direct	15776 Dec 18 10:29	26°×712'50	
morning max or	15776 Jan 26 15:57	0°≈	22 1132	ancer	15776 Dec 28 13:26	0°중	
asc. node	15776 Jan 27 03:20	0° ≈ 39'14		morning max el	15777 Jan 01 00:19	2°る54'24	24°04'24
morning set	15776 Feb 11 02:36	27°≈46'35		asc. node	15777 Jan 13 00:35	2 3 3 4 2 4 18° る 25'58	24 04 24
morning set	15776 Feb 12 03:45	0°) €		asc. node	15777 Jan 19 12:24	18 O 23 38	
	13//01/60 12 03.43	0 /		marning act	15777 Jan 25 14:32	0 ≈ 12°≈29'49	
aumorior comi	15776 Feb 18 04:00	12°) 50'31	1°19'36	morning set	13/// Jan 23 14.32	12 ≈2949	
superior conj					15777 E-1- 01-00-52	2792014	1021120
minimum elong max. Earth dist.	15776 Feb 18 06:17 15776 Feb 22 01:39	13°) €02'34 20°) €57'52	1°19'40 1.34096 AU	superior conj	15777 Feb 01 09:53	27°≈20'46 27°≈28'56	1°31'38 1°32'02
			1.34096 AU	minimum elong	15777 Feb 01 11:23		1 32 02
evening rise	15776 Feb 26 10:35	29°) (39′20		n a v	15777 Feb 02 15:13	0°) 2°) √51141	1 22505 ***
	15776 Feb 26 14:52	0°Υ •••••••		max. Earth dist.	15777 Feb 03 23:07	2°) 51'41	1.32587 AU
desc. node	15776 Feb 28 15:21	3°Y50'23		evening rise	15777 Feb 09 00:03	13° ¥ 21′10	
	15776 Mar 15 05:49	0°8		desc. node	15777 Feb 14 11:58	23° ¥ 59'37	
evening max el	15776 Apr 01 08:50	21° 8 30'55	26°59'35		15777 Feb 17 19:47	0° Υ	
retrograde	15776 Apr 14 17:42	29° 8 00'18			15777 Mar 10 08:00	0 \circ 8	
evening set	15776 Apr 21 06:28	26° 8 28'30		evening max el	15777 Mar 14 21:39	4° 8 50'07	27°31'08
asc. node	15776 Apr 24 00:17	23° 8 56'16		retrograde	15777 Mar 28 15:58	12° 8 21'03	
min. Earth dist.	15776 Apr 25 04:58	22° 8 38'13	0.65782 AU	evening set	15777 Apr 04 10:34	9° 8 55'14	
inferior conj	15776 Apr 27 10:00	20° 8 05'39	1°02'08	min. Earth dist.	15777 Apr 08 05:37	6° 8 35'18	0.63912 AU
minimum elong	15776 Apr 27 08:28	20° 8 10'05	1°00'59	inferior conj	15777 Apr 10 22:26	3° 8 46'50	0°00'39
morning rise	15776 May 03 11:55	14° 8 31'59		minimum elong	15777 Apr 10 22:26	3° 8 46'51	0°00'16
direct	15776 May 06 08:49	13° 8 47'09		transit middle	15777 Apr 10 22:26	3° 8 46'51	0°00'16
morning max el	15776 May 12 16:31	17° 8 04'52	18°05'25	transit begin	15777 Apr 10 19:18	3° 8 55'02	
	15776 May 22 08:44	Π $^{\circ}0$		transit end	15777 Apr 11 01:33	3° 8 38'41	
desc. node	15776 May 26 16:41	6° Ⅱ 52'18		asc. node	15777 Apr 10 21:37	3° 8 48'59	
morning set	15776 May 31 09:45	14° Ⅱ 29'17			15777 Apr 14 23:04	30° Ŗ ♈	
Ç	15776 Jun 10 01:40	0° ©		morning rise	15777 Apr 17 12:37	28° Ƴ 27'59	
				<u> </u>	1		

direct	15777 Apr 20 00:49	27° Y ′56'30		direct	15778 Apr 03 08:13	11° Y ′39'00	
direct	15777 Apr 25 01:12	0° 8		morning max el	15778 Apr 10 03:04	15° Υ 04'05	17°48'46
morning max el	15777 Apr 26 09:49	1° 8 12'05	17°48'14	morning max cr	15778 Apr 20 12:54	0° 8	17 40 40
morning set	15777 May 13 04:38	26° 8 27'11	17 40 14	morning set	15778 Apr 25 21:42	9° 8 26'50	
desc. node	15777 May 13 13:32	27° 8 04'54		desc. node	15778 Apr 30 10:18	17° 8 28'22	
dese. node	15777 May 15 06:56	0°II		dese. node	10,7011p1 30 10.10	1, 02022	
	•			superior conj	15778 May 07 05:22	29° 8 12'56	-0°53'09
superior conj	15777 May 26 06:15	18° Ⅲ 09'51	-1°30'26	minimum elong	15778 May 07 00:28	28° 8 52'10	0°53'05
minimum elong	15777 May 25 22:02	17° Ⅲ 36′39	1°30'17		15778 May 07 16:31	Π °0	
max. Earth dist.	15777 May 31 14:50	26° Ⅱ 43'44	1.45124 AU	max. Earth dist.	15778 May 14 06:47	10° Ⅲ 53'52	1.43701 AU
	15777 Jun 02 16:40	0 \circ		evening rise	15778 May 21 11:03	22° Ⅱ 16′50	
evening rise	15777 Jun 10 20:05	12° © 36'32			15778 May 26 11:43	0ංම	
_	15777 Jun 22 09:41	0° Ω			15778 Jun 16 18:22	0°Ω	
asc. node	15777 Jul 07 20:11	20° Ω 39'24	2001 (12 (evening max el	15778 Jun 21 15:38	5° Ω 29'33	21°27'21
evening max el	15777 Jul 08 18:21	21° Ω 36'29	20°16'36	asc. node	15778 Jun 24 17:05	8°Ω12'48 10°Ω40'06	
retrograde evening set	15777 Jul 16 14:31 15777 Jul 20 15:23	26° Ω 04'22 24° Ω 31'12		retrograde evening set	15778 Jun 30 13:18 15778 Jul 05 01:05	8° Ω 49'47	
inferior conj	15777 Jul 25 21:44	$18^{\circ}\Omega 27'55$	3°06'06	inferior conj	15778 Jul 10 06:38	2°Ω35'49	3°08'35
minimum elong	15777 Jul 25 22:27	$18^{\circ}\Omega 25'27$	3°05'27	minimum elong	15778 Jul 10 06:38	2°Ω36'41	3°07'51
min. Earth dist.	15777 Jul 26 17:13	17° Ω 21'21	0.68332 AU	min. Earth dist.	15778 Jul 10 12:43	2°Ω14'34	0.68963 AU
morning rise	15777 Jul 31 05:12	12° Ω 04'10	0.00332110	min. Eurur Gibt.	15778 Jul 12 04:05	30°R.55	0.00903110
direct	15777 Aug 05 17:37	9° Ω 39'35		morning rise	15778 Jul 15 11:27	26°9517'28	
desc. node	15777 Aug 09 12:09	10° Ω 35′22		direct	15778 Jul 20 11:43	24° © 08'04	
morning max el	15777 Aug 17 01:09	16° Ω 25'35	24°16'40	desc. node	15778 Jul 27 09:30	27°513'32	
	15777 Aug 28 07:16	0° ™			15778 Jul 30 10:53	$0^{\circ}\Omega$	
	15777 Sep 17 04:47	0∘ ⊽		morning max el	15778 Jul 30 12:59	0° Ω 05′15	22°47'24
morning set	15777 Sep 21 11:33	7° ≏ 14'25			15778 Aug 22 02:03	0° ™	
max. Earth dist.	15777 Sep 25 02:59	13° ≏ 38'40	1.38072 AU	morning set	15778 Sep 02 11:56	17° m 56'08	
		_		max. Earth dist.	15778 Sep 07 02:34	25° m 37'42	1.40469 AU
superior conj	15777 Oct 02 09:31	27° Ω 07'50			15778 Sep 09 15:38	0∘ ⊽	
minimum elong	15777 Oct 02 10:26	27° Ω 12'11	0°13'02		15770 C 14 22.10	00 0 27/25	0940127
behind sun begin behind sun end	15777 Oct 02 06:20 15777 Oct 02 14:32	26° £ 52'32 27° £ 31'51		superior conj minimum elong	15778 Sep 14 23:19 15778 Sep 15 03:11	9° £ 26'35 9° £ 44'08	0°48'56
asc. node	15777 Oct 02 14:32 15777 Oct 03 21:36	0°M01'49		asc. node	15778 Sep 20 18:15	20° £ 09'35	0 48 30
asc. node	15777 Oct 03 21:30 15777 Oct 03 21:13	0°M		evening rise	15778 Sep 24 19:36	20 ⊆ 09 33 27° ⊆ 50'55	
evening rise	15777 Oct 11 01:48	14°M11'59		evening rise	15778 Sep 25 22:50	0° ™	
	15777 Oct 19 10:43	0° ⊼		evening max el	15778 Oct 10 17:57	23°M32'43	18°26'32
evening max el	15777 Oct 27 14:57	11° ∡ ¹20′24	19°08'44	retrograde	15778 Oct 18 12:29	27°M29'26	
desc. node	15777 Nov 05 09:00	15° ∡ ′54'15		evening set	15778 Oct 20 12:09	27°M14'42	
retrograde	15777 Nov 05 17:04	15° ∡ 54'37		desc. node	15778 Oct 23 06:18	26°M09'48	
evening set	15777 Nov 07 14:15	15° х 43′40		inferior conj	15778 Oct 28 06:41	22°M41'16	-1°36'47
inferior conj	15777 Nov 16 01:02	11° ∡ ³30′51		minimum elong	15778 Oct 28 02:54	22°M48'46	1°34'38
minimum elong	15777 Nov 15 16:49	11° ∡ ⁴44'48	3°17'16	min. Earth dist.	15778 Oct 31 12:10	20°M08'35	0.57948 AU
min. Earth dist.	15777 Nov 18 18:58	9° ⋌ 39'21	0.56049 AU	morning rise	15778 Nov 04 14:09	17°M28'19	
morning rise	15777 Nov 23 16:51	6° ∡ 755'05		direct	15778 Nov 10 20:21	15°M47'43	
direct	15777 Nov 29 08:05	5° ∡ 741'35	25040125	morning max el	15778 Nov 25 03:01	23°M21'07	27°08'15
morning max el	15777 Dec 13 10:18 15777 Dec 26 18:14	12° メ *51'57 0° る	25°48'25	asc. node	15778 Dec 01 02:50 15778 Dec 17 18:52	0° ⊀ ⁷ 26° ≮ ⁷ 05'59	
asc. node	15777 Dec 30 21:46	6° る 59'06		asc. Houe	15778 Dec 17 18.32 15778 Dec 19 19:40	20 x 03 39	
morning set	15777 Dec 30 21:40 15778 Jan 10 01:58	27°る07'45		morning set	15778 Dec 25 11:04	11°る34'46	
morning sec	15778 Jan 11 09:43	0°≈		morning sec	13770 Dec 23 11.01	11 051 10	
				superior conj	15779 Jan 01 06:55	26° る 38'33	1°37'12
superior conj	15778 Jan 16 19:33	11° ≈ 58'59	1°37'27	minimum elong	15779 Jan 01 06:21	26° පි 35'21	1°37'57
minimum elong	15778 Jan 16 20:03	12° ≈ 01'41	1°38'06	max. Earth dist.	15779 Jan 01 10:15	26° ප 57'13	1.31063 AU
max. Earth dist.	15778 Jan 18 02:58	14° ≈ 53′01	1.31565 AU		15779 Jan 02 18:55	0° ≈	
evening rise	15778 Jan 23 22:09	27° ≈ 23'11		evening rise	15779 Jan 08 02:24	11° ≈ 38'49	
	15778 Jan 25 04:31	0° ∀			15779 Jan 17 08:55	0° ∀	
desc. node	15778 Feb 01 08:38	13° 米 51′11		desc. node	15779 Jan 19 05:23	3° ¥ 17′23	
	15778 Feb 11 03:15	0°Υ 		evening max el	15779 Feb 07 11:21	29°) (32′39	26°59'41
evening max el	15778 Feb 25 07:17	17° Y 34'24	27°32'34	, 1	15779 Feb 07 23:01	0°Υ 6° W 49 !2 0	
retrograde	15778 Mar 11 06:32	25° Y ′00′09		retrograde	15779 Feb 21 12:06	6° Y 48'29	
evening set	15778 Mar 18 02:17	22° Y '47'42 19° Y '52'08	0.61775 AU	evening set	15779 Feb 28 02:25	4° Y 57'00	0.50524 411
min. Earth dist. inferior conj	15778 Mar 21 20:39 15778 Mar 24 22:36	19°°γ′52′08 17° Υ ′01'44		min. Earth dist.	15779 Mar 04 01:35 15779 Mar 06 21:24	2° Y 16'18 30° R ₩	0.59524 AU
minimum elong	15778 Mar 25 01:13	16° Υ 55'41	1°13'25	inferior conj	15779 Mar 07 06:50	30 KA 29° ∺ 40'51	-2°40'33
asc. node	15778 Mar 28 18:59	13° Y 46'41	1 15 25	minimum elong	15779 Mar 07 12:55	29° H 28'35	
morning rise	15778 Apr 01 03:19	12° Υ '00'28		morning rise	15779 Mar 15 02:57	24°) 59'38	
		. 5526				,,,,,,,,	

,	15770) (15 16 22	2401/52126			15700 E 1 00 07 16	1.601/1.6102	
asc. node	15779 Mar 15 16:23	24° X 52'26		evening set	15780 Feb 09 07:16	16° ¥ 16'23	0.55004.433
direct	15779 Mar 17 02:56	24°) (44'33		min. Earth dist.	15780 Feb 13 20:44	13°) € 37'44	0.57394 AU
morning max el	15779 Mar 24 16:43	28°) 30′34	18°08'08	inferior conj	15780 Feb 16 19:36	11°) 34′19	
	15779 Mar 26 02:28	0° Y		minimum elong	15780 Feb 17 04:36	11° ∺ 18'36	4°06'58
morning set	15779 Apr 09 07:09	23° Y 11'14		morning rise	15780 Feb 25 04:56	7° ∺ 14'26	
	15779 Apr 12 22:47	9° 8		direct	15780 Feb 27 04:49	7° ₩ 01'55	
desc. node	15779 Apr 17 07:02	7° 8 58'33		asc. node	15780 Mar 01 13:47	7° ∺ 39'46	
				morning max el	15780 Mar 06 22:40	11° ∺ 19'29	18°48'07
superior conj	15779 Apr 19 03:30	11° 8 18'33	-0°15'14		15780 Mar 19 07:19	0° Y	
minimum elong	15779 Apr 19 02:15	11° 8 12'55	0°15'31	morning set	15780 Mar 23 03:56	7° Y 25′16	
behind sun begin	15779 Apr 19 00:27	11° 8 04'53		•			
behind sun end	15779 Apr 19 04:02	11° 8 20'56		superior conj	15780 Mar 31 20:53	24° Ƴ 15'37	0°19'02
max. Earth dist.	15779 Apr 26 17:57	24° 8 28'19	1.41774 AU	minimum elong	15780 Mar 31 22:07	24° Y ′21'23	0°18'34
man. Darm diot.	15779 Apr 30 02:05	0°II	1.1177,1110	desc. node	15780 Apr 03 03:40	28° Y 31'12	0 105.
evening rise	15779 May 01 18:47	2° I I45'06		desc. Hode	15780 Apr 03 22:58	0°8	
evening rise	15779 May 19 19:58	0°95		max. Earth dist.	15780 Apr 08 01:18	7° 8 21'36	1.39554 AU
avanina may al	15779 Jun 04 08:16	19° © 23'25	22°46'26		-	14° 8 09'03	1.39334 AU
evening max el			22 40 20	evening rise	15780 Apr 11 23:44		
asc. node	15779 Jun 11 14:04	24°5543'28			15780 Apr 21 19:20	0°II	
retrograde	15779 Jun 14 10:19	25°5518'33			15780 May 13 19:27	0°9	
evening set	15779 Jun 19 09:30	23° © 12'40		evening max el	15780 May 16 22:26	3° © 18'22	24°07'56
inferior conj	15779 Jun 24 16:36	16° © 50'02	3°00'24	retrograde	15780 May 28 04:06	9° 9 53'13	
minimum elong	15779 Jun 24 15:28	16° © 53'59	2°59'27	asc. node	15780 May 28 11:09	9° © 52'51	
min. Earth dist.	15779 Jun 24 09:40	17° 5 014'08	0.69110 AU	evening set	15780 Jun 02 14:58	7° 5 34'19	
morning rise	15779 Jun 29 21:17	10° © 39'02		min. Earth dist.	15780 Jun 07 05:51	2° © 13'09	0.68775 AU
direct	15779 Jul 04 09:19	8° © 47'57		inferior conj	15780 Jun 08 01:43	1° © 05'49	2°41'47
morning max el	15779 Jul 13 04:22	13°953'34	21°22'20	minimum elong	15780 Jun 07 23:53	1°512'00	2°40'36
desc. node	15779 Jul 14 06:46	15° © 01'37		Č	15780 Jun 08 21:14	30°R Ⅱ	
	15779 Jul 26 01:02	$0^{\circ}\Omega$		morning rise	15780 Jun 13 08:51	25° I I03'35	
morning set	15779 Aug 13 12:28	27° Ω 37'23		direct	15780 Jun 17 08:59	23° I I32'18	
morning sec	15779 Aug 15 00:36	0° m)		morning max el	15780 Jun 25 01:59		20°07'39
max. Earth dist.	15779 Aug 20 07:23	8° Mp 30'00	1.42678 AU	morning max cr	15780 Jun 27 02:23	0°95	20 0/37
max. Earth dist.	13/19 Aug 20 07.23	8 11/2000	1.42076 AU	daga mada	15780 Jun 30 03:56	3°9540'44	
	15770 1 27 17 04	200m-52121	1005126	desc. node			
superior conj	15779 Aug 27 17:04	20° m 53'21			15780 Jul 18 11:46	0° Q	
minimum elong	15779 Aug 27 23:56	21° Tp 22'48	1°24'56	morning set	15780 Jul 22 19:07	6° Ω 34'31	
	15779 Sep 01 22:33	0∘ ত		max. Earth dist.	15780 Aug 01 19:09	22° Ω 12′16	1.44442 AU
asc. node	15779 Sep 07 14:54	10° ≏ 11'03			15780 Aug 06 15:33	0° m)	
evening rise	15779 Sep 08 01:08	10° ≏ 57'15					
	15779 Sep 19 03:28	0°M₊		superior conj	15780 Aug 07 11:26	1° Mp 20'53	-1°55'46
evening max el	15779 Sep 24 04:47	6° M 23′27	18°05'03	minimum elong	15780 Aug 07 18:59	1° m 51'44	1°55'37
retrograde	15779 Oct 01 01:58	9° ™ 55'21		evening rise	15780 Aug 20 13:18	23° m 17'42	
evening set	15779 Oct 03 08:25	9° ™ 32'35		asc. node	15780 Aug 24 11:32	0° ≙ 01'29	
inferior conj	15779 Oct 10 09:25	4°MJ38'16	-0°04'33		15780 Aug 24 11:11	0∘ ত	
minimum elong	15779 Oct 10 09:16	4°M38'36	0°04'06	evening max el	15780 Sep 06 19:12	19° ≏ 41'38	18°02'48
transit middle	15779 Oct 10 09:16	4°M38'36	0°04'06	retrograde	15780 Sep 13 05:32	23° ഫ 02'40	
transit begin	15779 Oct 10 06:03	4°M46'00		evening set	15780 Sep 15 20:13	22° £ 28'15	
transit end	15779 Oct 10 12:30	4°M31'11		inferior conj	15780 Sep 22 05:51	17° ≏ 15'07	1°08'23
desc. node	15779 Oct 10 12:30	4°M51'31		minimum elong	15780 Sep 22 07:39	17° ⊆ 10'24	1°07'55
min. Earth dist.	15779 Oct 10 03:38 15779 Oct 13 14:06	1°M43'07	0.60190 AU	min. Earth dist.	15780 Sep 25 01:48	17 ⊆ 1024 14° ⊆ 18'11	0.62472 AU
iiiii. Eartii tiist.			0.00190 AU	desc. node			0.02472 AU
	15779 Oct 15 16:27	30° ŖΩ			15700 C 26 01.01		
morning rise		200 0 52127			15780 Sep 26 01:01	13° £ 21'31	
	15779 Oct 17 06:55	28° ≏ 53'27		morning rise	15780 Sep 28 16:42	11° ≏ 07'36	
direct	15779 Oct 23 21:33	26° ≏ 47'42		morning rise direct	15780 Sep 28 16:42 15780 Oct 05 09:06	11° £ 07'36 8° £ 43'01	
	15779 Oct 23 21:33 15779 Nov 01 15:49	26° £ 47'42 0° ™		morning rise	15780 Sep 28 16:42 15780 Oct 05 09:06 15780 Oct 19 10:34	11° Ω 07'36 8° Ω 43'01 16° Ω 40'51	27°56'19
morning max el	15779 Oct 23 21:33 15779 Nov 01 15:49 15779 Nov 07 03:39	26° £ 47'42 0° M 4° M 37'08	27°51'52	morning rise direct	15780 Sep 28 16:42 15780 Oct 05 09:06 15780 Oct 19 10:34 15780 Oct 30 11:41	11° ച 07'36 8° ച 43'01 16° ച 40'51 0° M	27°56′19
	15779 Oct 23 21:33 15779 Nov 01 15:49	26° £ 47'42 0° ™	27°51'52	morning rise direct	15780 Sep 28 16:42 15780 Oct 05 09:06 15780 Oct 19 10:34	11° Ω 07'36 8° Ω 43'01 16° Ω 40'51	27°56'19
	15779 Oct 23 21:33 15779 Nov 01 15:49 15779 Nov 07 03:39	26° £ 47'42 0° M 4° M 37'08	27°51'52	morning rise direct	15780 Sep 28 16:42 15780 Oct 05 09:06 15780 Oct 19 10:34 15780 Oct 30 11:41	11° ച 07'36 8° ച 43'01 16° ച 40'51 0° M	27°56'19
morning max el	15779 Oct 23 21:33 15779 Nov 01 15:49 15779 Nov 07 03:39 15779 Nov 26 00:11	26° £ 47'42 0° M 4° M 37'08 0° x ⁷	27°51'52	morning rise direct morning max el	15780 Sep 28 16:42 15780 Oct 05 09:06 15780 Oct 19 10:34 15780 Oct 30 11:41 15780 Nov 17 17:33	11° ♀ 07'36 8° ♀ 43'01 16° ♀ 40'51 0° ™ 0° ४	27°56'19
morning max el asc. node	15779 Oct 23 21:33 15779 Nov 01 15:49 15779 Nov 07 03:39 15779 Nov 26 00:11 15779 Dec 04 15:54	26° <u>•</u> 47'42 0° M. 4° M.37'08 0° * √ 15° * √37'41	27°51'52	morning rise direct morning max el asc. node	15780 Sep 28 16:42 15780 Oct 05 09:06 15780 Oct 19 10:34 15780 Oct 30 11:41 15780 Nov 17 17:33 15780 Nov 20 12:51	11° Ω 07'36 8° Ω 43'01 16° Ω 40'51 0° M 0° X 5° X 27'03	27°56'19 1.31709 AU
morning max el asc. node	15779 Oct 23 21:33 15779 Nov 01 15:49 15779 Nov 07 03:39 15779 Nov 26 00:11 15779 Dec 04 15:54 15779 Dec 09 15:59	26° □ 47'42 0° m . 4° m 37'08 0° ♂ 15° ♂ 37'41 25° ♂ 46'17	27°51'52 1.31107 AU	morning rise direct morning max el asc. node morning set	15780 Sep 28 16:42 15780 Oct 05 09:06 15780 Oct 19 10:34 15780 Oct 30 11:41 15780 Nov 17 17:33 15780 Nov 20 12:51 15780 Nov 22 14:33	11° Ω 07'36 8° Ω 43'01 16° Ω 40'51 0° M 0° X 5° X 27'03 9° X 37'27	
morning max el asc. node morning set	15779 Oct 23 21:33 15779 Nov 01 15:49 15779 Nov 07 03:39 15779 Nov 26 00:11 15779 Dec 04 15:54 15779 Dec 09 15:59 15779 Dec 11 15:38	26° £ 47'42 0° M 4° M 37'08 0° ₹ 15° ₹ 37'41 25° ₹ 46'17 0° ♂		morning rise direct morning max el asc. node morning set max. Earth dist.	15780 Sep 28 16:42 15780 Oct 05 09:06 15780 Oct 19 10:34 15780 Oct 30 11:41 15780 Nov 17 17:33 15780 Nov 20 12:51 15780 Nov 22 14:33	11° Ω 07'36 8° Ω 43'01 16° Ω 40'51 0° M 0° X 5° X 27'03 9° X 37'27	
morning max el asc. node morning set max. Earth dist.	15779 Oct 23 21:33 15779 Nov 01 15:49 15779 Nov 07 03:39 15779 Nov 26 00:11 15779 Dec 04 15:54 15779 Dec 09 15:59 15779 Dec 11 15:38 15779 Dec 15 17:27	26° \$\times 47'42 \\ 0° \$\mathbb{M}\$. \\ 4° \$\mathbb{M}\$.37'08 \\ 0° \$\mathbb{Z}\$. \\ 15° \$\mathbb{Z}\$.37'41 \\ 25° \$\mathbb{Z}\$.46'17 \\ 0° \$\mathre{G}\$. \\ 8° \$\mathre{G}\$.56'51	1.31107 AU	morning rise direct morning max el asc. node morning set max. Earth dist.	15780 Sep 28 16:42 15780 Oct 05 09:06 15780 Oct 19 10:34 15780 Oct 30 11:41 15780 Nov 17 17:33 15780 Nov 20 12:51 15780 Nov 22 14:33 15780 Nov 27 20:53	11° △ 07'36 8° △ 43'01 16° △ 40'51 0° M 0° ♂ 5° ♂ 27'03 9° ♂ 37'27 20° ♂ 44'01 25° ♂ 40'49	1.31709 AU 1°18'41
morning max el asc. node morning set max. Earth dist. superior conj	15779 Oct 23 21:33 15779 Nov 01 15:49 15779 Nov 07 03:39 15779 Nov 26 00:11 15779 Dec 04 15:54 15779 Dec 09 15:59 15779 Dec 11 15:38 15779 Dec 15 17:27	26° \$\times 47'42 \\ 0° \$\mathbb{m}\$. \\ 4° \$\mathbb{m}\$.37'08 \\ 0° \$\mathscr{A}\$ \\ 15° \$\mathscr{A}\$'37'41 \\ 25° \$\mathscr{A}\$'46'17 \\ 0° \$\mathscr{G}\$ \\ 8° \$\mathscr{G}\$56'51 \\ 11° \$\mathscr{G}\$14'13	1.31107 AU 1°30'57	morning rise direct morning max el asc. node morning set max. Earth dist.	15780 Sep 28 16:42 15780 Oct 05 09:06 15780 Oct 19 10:34 15780 Oct 30 11:41 15780 Nov 17 17:33 15780 Nov 20 12:51 15780 Nov 22 14:33 15780 Nov 27 20:53 15780 Nov 30 03:10 15780 Nov 30 01:01	11° Ω 07'36 8° Ω 43'01 16° Ω 40'51 0° M 0° X 5° X 27'03 9° X 37'27 20° X 44'01 25° X 40'49 25° X 28'55	1.31709 AU
morning max el asc. node morning set max. Earth dist. superior conj minimum elong	15779 Oct 23 21:33 15779 Nov 01 15:49 15779 Nov 07 03:39 15779 Nov 26 00:11 15779 Dec 04 15:54 15779 Dec 09 15:59 15779 Dec 11 15:38 15779 Dec 15 17:27 15779 Dec 16 18:06 15779 Dec 16 16:35	26° \$\times 47'42 0° \$\times 40' \$\times 37'08 0° \$\times 150' \$\times 37'41 250' \$\times 46'17 0° \$\times 556'51 11° \$\times 14'13 11° \$\times 05'48	1.31107 AU	morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong	15780 Sep 28 16:42 15780 Oct 05 09:06 15780 Oct 19 10:34 15780 Oct 30 11:41 15780 Nov 17 17:33 15780 Nov 20 12:51 15780 Nov 22 14:33 15780 Nov 27 20:53 15780 Nov 30 03:10 15780 Nov 30 01:01 15780 Dec 02 02:08	11° \$\oldsymbol{\Omega}07'36 8° \$\oldsymbol{\Omega}43'01 16° \$\oldsymbol{\Omega}40'51 0° \$\mathbb{M}\$ 5° \$\tilde{\Z}27'03 9° \$\tilde{\Z}37'27 20° \$\tilde{\Z}44'01 25° \$\tilde{\Z}40'49 25° \$\tilde{\Z}28'55 0° \$\tilde{\Z}\$	1.31709 AU 1°18'41
morning max el asc. node morning set max. Earth dist. superior conj	15779 Oct 23 21:33 15779 Nov 01 15:49 15779 Nov 07 03:39 15779 Nov 26 00:11 15779 Dec 04 15:54 15779 Dec 09 15:59 15779 Dec 11 15:38 15779 Dec 15 17:27 15779 Dec 16 18:06 15779 Dec 16 16:35 15779 Dec 23 10:42	26° \$\textit{\Omega} 47'42 0° \$\textit{\mathbb{n}}\$. 4° \$\textit{\mathbb{n}} 37'08 0° \$\textit{\sigma}\$ 15° \$\textit{\sigma} 37'41 25° \$\textit{\sigma} 46'17 0° \$\textit{\Sigma}\$ 8° \$\textit{\Sigma} 56'51 11° \$\textit{\Sigma} 14'13 11° \$\textit{\Sigma} 05'48 26° \$\textit{\Sigma} 03'11	1.31107 AU 1°30'57	morning rise direct morning max el asc. node morning set max. Earth dist.	15780 Sep 28 16:42 15780 Oct 05 09:06 15780 Oct 19 10:34 15780 Oct 30 11:41 15780 Nov 17 17:33 15780 Nov 20 12:51 15780 Nov 22 14:33 15780 Nov 27 20:53 15780 Nov 30 03:10 15780 Nov 30 01:01 15780 Dec 02 02:08 15780 Dec 06 21:10	11° №07'36 8° №43'01 16° №40'51 0° № 0° № 5° №27'03 9° №37'27 20° №44'01 25° №40'49 25° №28'55 0° № 10° №31'44	1.31709 AU 1°18'41
morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise	15779 Oct 23 21:33 15779 Nov 01 15:49 15779 Nov 07 03:39 15779 Nov 26 00:11 15779 Dec 04 15:54 15779 Dec 09 15:59 15779 Dec 11 15:38 15779 Dec 15 17:27 15779 Dec 16 18:06 15779 Dec 23 10:42 15779 Dec 25 07:05	26° \Lambda 47'42 0° \mathbb{m}. 4° \mathbb{m}.37'08 0° \mathbb{n}' 15° \mathbb{n}'37'41 25° \mathbb{n}'46'17 0° \to 8° \to 56'51 11° \to 14'13 11° \to 05'48 26° \to 03'11 0° \impsilon	1.31107 AU 1°30'57	morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise	15780 Sep 28 16:42 15780 Oct 05 09:06 15780 Oct 19 10:34 15780 Oct 30 11:41 15780 Nov 17 17:33 15780 Nov 20 12:51 15780 Nov 22 14:33 15780 Nov 27 20:53 15780 Nov 30 03:10 15780 Nov 30 01:01 15780 Dec 02 02:08 15780 Dec 06 21:10 15780 Dec 16 15:42	11° №07'36 8° №43'01 16° №40'51 0° № 0° № 5° №27'03 9° №37'27'27 20° №44'01 25° №40'49 25° №28'55 0° № 10° №331'44 0° ≈	1.31709 AU 1°18'41
morning max el asc. node morning set max. Earth dist. superior conj minimum elong	15779 Oct 23 21:33 15779 Nov 01 15:49 15779 Nov 07 03:39 15779 Nov 26 00:11 15779 Dec 04 15:54 15779 Dec 09 15:59 15779 Dec 11 15:38 15779 Dec 15 17:27 15779 Dec 16 18:06 15779 Dec 23 10:42 15779 Dec 25 07:05 15780 Jan 06 02:10	26° \overline{2} 47'42 0° \overline{1}\text{\text{\$\text{\$\sigma\$}}} 4\text{\text{\$\sigma\$}} 37'08 0° \ntilde{\text{\$\sigma\$}} 15\text{\text{\$\sigma\$}} 37'41 25\text{\text{\$\sigma\$}} 46'17 0\text{\$\text{\$\sigma\$}} 8\text{\text{\$\sigma\$}} 56'51 11\text{\$\text{\$\sigma\$}} 514'13 11\text{\$\text{\$\sigma\$}} 505'48 26\text{\$\text{\$\sigma\$}} 303'11 0\text{\$\text{\$\sigma\$}} 22\text{\$\text{\$\sigma\$}} 8'45	1.31107 AU 1°30'57	morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node	15780 Sep 28 16:42 15780 Oct 05 09:06 15780 Oct 19 10:34 15780 Oct 30 11:41 15780 Nov 17 17:33 15780 Nov 20 12:51 15780 Nov 22 14:33 15780 Nov 27 20:53 15780 Nov 30 03:10 15780 Nov 30 01:01 15780 Dec 02 02:08 15780 Dec 06 21:10 15780 Dec 16 15:42 15780 Dec 22 23:02	11° №07'36 8° №43'01 16° №40'51 0° № 0° № 5° №27'03 9° №37'27'27 20° №44'01 25° №40'49 25° №28'55 0° № 10° №31'44 0° № 10° №12'42	1.31709 AU 1°18'41 1°19'15
morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node	15779 Oct 23 21:33 15779 Nov 01 15:49 15779 Nov 07 03:39 15779 Nov 26 00:11 15779 Dec 04 15:54 15779 Dec 09 15:59 15779 Dec 11 15:38 15779 Dec 15 17:27 15779 Dec 16 16:35 15779 Dec 23 10:42 15779 Dec 25 07:05 15780 Jan 06 02:10 15780 Jan 11 06:53	26° 年47'42 0° M 4° M 37'08 0° ズ 15° ズ 37'41 25° ズ 46'17 0° उ 8° उ 56'51 11° उ 14'13 11° उ 05'48 26° उ 03'11 0° ≈ 22° ≈ 08'45 0° 大	1.31107 AU 1°30'57 1°31'40	morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node evening max el	15780 Sep 28 16:42 15780 Oct 05 09:06 15780 Oct 19 10:34 15780 Oct 30 11:41 15780 Nov 17 17:33 15780 Nov 20 12:51 15780 Nov 22 14:33 15780 Nov 27 20:53 15780 Nov 30 03:10 15780 Nov 30 01:01 15780 Dec 02 02:08 15780 Dec 06 21:10 15780 Dec 16 15:42 15780 Dec 22 23:02 15780 Dec 31 20:03	11° №07'36 8° №43'01 16° №40'51 0° № 0° № 5° №27'03 9° №37'27 20° №44'01 25° №40'49 25° №28'55 0° № 10° №312'44 20° №12'42 20° №57'48	1.31709 AU 1°18'41
morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node evening max el	15779 Oct 23 21:33 15779 Nov 01 15:49 15779 Nov 07 03:39 15779 Nov 26 00:11 15779 Dec 04 15:54 15779 Dec 09 15:59 15779 Dec 11 15:38 15779 Dec 15 17:27 15779 Dec 16 16:35 15779 Dec 23 10:42 15779 Dec 25 07:05 15780 Jan 06 02:10 15780 Jan 11 06:53 15780 Jan 20 07:39	26° 47'42 0° M 4° M37'08 0° ズ 15° ズ37'41 25° ズ46'17 0° 云 8° 云56'51 11° 云05'48 26° 云03'11 0° ≈ 22° ≈08'45 0° 升 10° 升38'43	1.31107 AU 1°30'57 1°31'40	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	15780 Sep 28 16:42 15780 Oct 05 09:06 15780 Oct 19 10:34 15780 Oct 30 11:41 15780 Nov 17 17:33 15780 Nov 20 12:51 15780 Nov 22 14:33 15780 Nov 27 20:53 15780 Nov 30 03:10 15780 Dec 02 02:08 15780 Dec 06 21:10 15780 Dec 16 15:42 15780 Dec 22 23:02 15780 Dec 31 20:03 15781 Jan 14 11:08	11° №07'36 8° №43'01 16° №40'51 0° № 0° № 5° №27'03 9° №37'27 20° №44'01 25° №40'49 25° №28'55 0° № 10° №312'44 0° № 10° №12'42 20° №57'48 27° ≈44'37	1.31709 AU 1°18'41 1°19'15
morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node	15779 Oct 23 21:33 15779 Nov 01 15:49 15779 Nov 07 03:39 15779 Nov 26 00:11 15779 Dec 04 15:54 15779 Dec 09 15:59 15779 Dec 11 15:38 15779 Dec 15 17:27 15779 Dec 16 16:35 15779 Dec 23 10:42 15779 Dec 25 07:05 15780 Jan 06 02:10 15780 Jan 11 06:53	26° 年47'42 0° M 4° M 37'08 0° ズ 15° ズ 37'41 25° ズ 46'17 0° उ 8° उ 56'51 11° उ 14'13 11° उ 05'48 26° उ 03'11 0° ≈ 22° ≈ 08'45 0° 大	1.31107 AU 1°30'57 1°31'40	morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node evening max el	15780 Sep 28 16:42 15780 Oct 05 09:06 15780 Oct 19 10:34 15780 Oct 30 11:41 15780 Nov 17 17:33 15780 Nov 20 12:51 15780 Nov 22 14:33 15780 Nov 27 20:53 15780 Nov 30 03:10 15780 Nov 30 01:01 15780 Dec 02 02:08 15780 Dec 06 21:10 15780 Dec 16 15:42 15780 Dec 22 23:02 15780 Dec 31 20:03	11° №07'36 8° №43'01 16° №40'51 0° № 0° № 5° №27'03 9° №37'27 20° №44'01 25° №40'49 25° №28'55 0° № 10° №312'44 20° №12'42 20° №57'48	1.31709 AU 1°18'41 1°19'15

i Balaia	15701 1 25 07 46	220 5 412.1	0.55660 ATT		15701 D 20 22 21	60 - 44155	
min. Earth dist.	15781 Jan 25 07:46	23°≈54'31	0.55662 AU	evening set	15781 Dec 29 23:31	6°≈44'55	
inferior conj	15781 Jan 27 11:12	22° ≈ 36′02		min. Earth dist.	15782 Jan 06 13:59	3°≈17'25	0.54610 AU
minimum elong	15781 Jan 27 19:22		5°23'31	inferior conj	15782 Jan 07 08:55	2° ≈ 50'43	
morning rise	15781 Feb 05 02:59	18° ≈ 36′09		minimum elong	15782 Jan 07 09:52		6°00'30
direct	15781 Feb 07 11:13	18° ≈ 21'46			15782 Jan 12 22:56	30°₹ ⋜	
asc. node	15781 Feb 16 11:10	22° ≈ 11'44		morning rise	15782 Jan 15 21:23	29° る 02'52	
morning max el	15781 Feb 17 16:45	23° ≈ 19′22	19°50'44	direct	15782 Jan 19 00:25	28° る 40'37	
	15781 Feb 23 04:38	0° ℋ			15782 Jan 24 17:25	0° ≈	
morning set	15781 Mar 07 08:19	21° ∺ 57'55		morning max el	15782 Jan 30 20:01	4° ≈ 22'17	21°16'34
	15781 Mar 11 07:08	0 ° Υ		asc. node	15782 Feb 03 08:30	8° ≈ 13'26	
					15782 Feb 16 11:25	0° ∀	
superior conj	15781 Mar 15 05:10	7° Ƴ 52'29	0°47'36	morning set	15782 Feb 19 17:20	6°) 39′34	
minimum elong	15781 Mar 15 07:33	8° Y 04'18	0°47'11				
desc. node	15781 Mar 21 00:17	19° Ƴ 02'59		superior conj	15782 Feb 27 00:18	21°) 57'08	1°09'46
max. Earth dist.	15781 Mar 21 07:57	19° Ƴ 38'43	1.37274 AU	minimum elong	15782 Feb 27 02:49	22°) 10′12	1°09'38
evening rise	15781 Mar 25 00:49	26° Y 23'45			15782 Mar 02 23:14	0° Υ	
	15781 Mar 27 01:52	0°8		max. Earth dist.	15782 Mar 03 17:50	1° Υ 32'15	1.35161 AU
	15781 Apr 15 07:13	0°II		evening rise	15782 Mar 07 18:43	9° Υ 19'17	1.50101110
evening max el	15781 Apr 29 11:56	17° Ⅱ 12'51	25°24'54	desc. node	15782 Mar 07 20:54	9° Υ 29'28	
retrograde	15781 May 11 17:41	24° I 18'04	23 24 34	desc. node	15782 Mar 19 16:20	0° 8	
•	•	23° I I24'24				0°II	
asc. node	15781 May 15 08:17				15782 Apr 11 01:05		26020100
evening set	15781 May 17 15:51	21° II 49'47	0.67060 444	evening max el	15782 Apr 12 01:32	1° II 00'57	26°30'09
min. Earth dist.	15781 May 21 23:08	17° I 105'27	0.67968 AU	retrograde	15782 Apr 25 02:13	8° Ⅱ 25'24	
inferior conj	15781 May 23 08:02	15° Ⅱ 19'08	2°12'23	evening set	15782 May 01 10:21	5° ∏ 52'51	
minimum elong	15781 May 23 05:52	15° Ⅱ 26′09	2°11'01	asc. node	15782 May 02 05:29	5° Ⅱ 11'38	
morning rise	15781 May 28 20:18	9° Ⅱ 26'59		min. Earth dist.	15782 May 05 11:32	1° Ⅱ 43'44	0.66701 AU
direct	15781 Jun 01 09:09	8° Ⅱ 15'15			15782 May 06 21:57	30° ₹ 8	
morning max el	15781 Jun 08 07:00	12° Ⅱ 00'37	19°07'16	inferior conj	15782 May 07 09:25	29° 8 25'11	1°31'24
desc. node	15781 Jun 17 01:02	22° Ⅱ 57'31		minimum elong	15782 May 07 07:26	29° 8 31'10	1°30'04
greatest brilliancy	15781 Jun 21 05:05	29° Ⅱ 03'48	-0.7m	morning rise	15782 May 13 05:35	23° 8 44'28	
	15781 Jun 21 20:07	0 \circ \odot		direct	15782 May 16 07:58	22° 8 50'42	
morning set	15781 Jul 02 00:58	15° © 34'54		morning max el	15782 May 22 18:35	26° 8 14'53	18°23'07
	15781 Jul 11 08:26	$0^{\circ}\Omega$			15782 May 26 02:43	$\Pi^{\circ}0$	
max. Earth dist.	15781 Jul 15 12:25	6° Ω 30′10	1.45579 AU	desc. node	15782 Jun 03 22:02	12° Ⅱ 42'00	
				morning set	15782 Jun 12 01:22	25° Ⅲ 31′08	
superior conj	15781 Jul 18 07:55	10° Ω 55'17	-2°12'39	C	15782 Jun 14 21:20	0ം ഉ	
minimum elong	15781 Jul 18 11:00	11° Ω 07'26	2°13'16				
	15781 Jul 30 06:12	0°m)		superior conj	15782 Jun 27 17:06	20°506'43	-2°10'19
evening rise	15781 Aug 02 03:00	4° Mp 40'03		minimum elong	15782 Jun 27 12:26		2°10'58
asc. node	15781 Aug 11 08:11	19° Mp 36'02		max. Earth dist.	15782 Jun 28 08:16		1.45986 AU
use. Houe	15781 Aug 18 11:51	0∘ ರ		max. Earth dist.	15782 Jul 04 01:23	0° Ω	1.43700710
evening max el	15781 Aug 21 09:40	o — 3° ≏ 17'55	18°18'44	evening rise	15782 Jul 13 15:42	15° Ω 00'08	
•	-	5 = 1733 6° £ 41'37	10 10 44	•	15782 Jul 23 02:44	29° Ω 45'33	-0.8m
retrograde	15781 Aug 27 18:49			greatest brilliancy			-0.8111
evening set	15781 Aug 30 18:16	5° £ 52'47	2001140	1-	15782 Jul 23 06:30	0° M)	
inferior conj	15781 Sep 05 15:55	0° ჲ 23'20	2°01'48	asc. node	15782 Jul 29 04:52	8° Mp 48'55	10053100
minimum elong	15781 Sep 05 18:16	0° £ 16'30	2°01'03	evening max el	15782 Aug 04 21:18	17° m, 05'20	18°52'00
	15781 Sep 05 23:55	30°R, Mp		retrograde	15782 Aug 11 14:00	20° m/44'42	
min. Earth dist.	15781 Sep 07 23:18	27° m/42'39	0.64578 AU	evening set	15782 Aug 14 22:47	19° m 39'29	
morning rise	15781 Sep 11 16:45	24° Mp 02'30		inferior conj	15782 Aug 20 12:00	13° m 55'52	2°37'57
desc. node	15781 Sep 12 22:26	23°Mp08'38		minimum elong	15782 Aug 20 14:02	13° m 49'27	2°37'14
direct	15781 Sep 18 05:30	21° m ,27'13		min. Earth dist.	15782 Aug 22 05:31	11° m)45'00	0.66364 AU
morning max el	15781 Oct 01 21:07	29° m 23'44	27°25'00	morning rise	15782 Aug 26 04:23	7° ™ 29'36	
	15781 Oct 02 11:23	0∘ ऌ		desc. node	15782 Aug 30 19:51	5° ™ 01'42	
	15781 Oct 24 09:39	0° M .		direct	15782 Sep 01 09:35	4° My 52'12	
morning set	15781 Nov 06 04:11	23°M01'45		morning max el	15782 Sep 14 08:41	12° m 33'47	26°25'22
asc. node	15781 Nov 07 09:39	25°M27'51			15782 Sep 28 10:03	0∘ ⊽	
	15781 Nov 09 15:23	0°⊀			15782 Oct 17 01:09	0°M₊	
max. Earth dist.	15781 Nov 10 16:48	2° ҂ 11'13	1.32873 AU	morning set	15782 Oct 20 05:47	5°M52'33	
				max. Earth dist.	15782 Oct 24 02:53	13°ML19'42	1.34570 AU
superior conj	15781 Nov 14 08:01	9° ∡ ¹52'05	1°00'20	asc. node	15782 Oct 25 06:24	15°M35'46	
minimum elong	15781 Nov 14 05:41	9° ∡ ³39'31	1°00'43			- *	
evening rise	15781 Nov 21 07:56	24° ₹ '59'06	-	superior conj	15782 Oct 29 06:15	23°M42'24	0°35'58
	15781 Nov 23 16:54	0°る		minimum elong	15782 Oct 29 04:26	23°M32'56	0°36'15
desc. node	15781 Dec 09 20:01	27° ට 11'26		Violig	15782 Nov 01 06:36	0° ⊼ ¹	2 20 10
3050. 11040	15781 Dec 12 08:18	27 O1120 0°≈		evening rise	15782 Nov 01 00:30	9° ∡ 120'56	
evening max el	15781 Dec 12 05:18	0°≈53'36	22°35'58	- , ching 1150	15782 Nov 16 12:33	9×2030	
retrograde	15781 Dec 15 03:41 15781 Dec 26 03:32	0 ≈33 30 7°≈17'04	22 33 30	evening max el	15782 Nov 16 12.33	0 3 11° る 05'48	21°00'09
CHUMINUE	13/01 DEC 20 03.32	/ 🕶 1 / 04		evening max ei	13/02 INUV 24 22.33	11 00348	∠1 UU U7

desc. node	15782 Nov 26 17:04	12° る 43'08			15783 Oct 24 04:05	0° ∡ 7	
retrograde	15782 Dec 06 13:36	16° る 51'37		evening max el	15783 Nov 07 05:19	22° x ⁷ 01'36	19°43'05
evening set	15782 Dec 09 04:40	16° る 35'14		desc. node	15783 Nov 13 14:14	26° ₹ '22'26	
inferior conj	15782 Dec 17 23:42	12° る 43'35	-5°37'04	retrograde	15783 Nov 17 05:03	27° х 00′54	
minimum elong	15782 Dec 17 15:59	12° る 54'34		evening set	15783 Nov 19 04:51	26° х 49′56	
min. Earth dist.	15782 Dec 18 19:29	12° る 15'26	0.54452 AU	inferior conj	15783 Nov 27 22:10	22° ∡ ¹47'57	-4°19'13
morning rise	15782 Dec 26 03:27	8° ප 51'01		minimum elong	15783 Nov 27 12:17	23° ₹ '03'22	4°15'23
direct	15782 Dec 30 07:42	8° ප 13'26		min. Earth dist.	15783 Nov 30 03:09	21° ₹ '25'15	0.55229 AU
morning max el	15783 Jan 12 10:07	14° る 36'09	23°00'46	morning rise	15783 Dec 05 18:06	18° ∡ °32'00	
asc. node	15783 Jan 21 05:47	25° පි 26'53		direct	15783 Dec 10 22:23	17° ∡ ³32'35	
	15783 Jan 24 02:49	0° ≈		morning max el	15783 Dec 24 18:36	24° ∡ ¹27'52	24°50'25
morning set	15783 Feb 04 04:46	21° ≈ 23′50			15783 Dec 29 20:12	8°0	
	15783 Feb 08 04:33	0° ∀		asc. node	15784 Jan 08 03:00	13° る 34'57	
					15784 Jan 16 19:32	0° ≈	
superior conj	15783 Feb 11 03:03	6° ∺ 20'33	1°25'28	morning set	15784 Jan 19 16:43	6° ≈ 05'29	
minimum elong	15783 Feb 11 05:03	6°) 31'14	1°25'40				
max. Earth dist.	15783 Feb 14 10:31	13° ∺ 21'14	1.33400 AU	superior conj	15784 Jan 26 10:51	20° ≈ 55'19	1°34'50
evening rise	15783 Feb 19 02:00	22°) 46′50		minimum elong	15784 Jan 26 11:56	21° ≈ 01'18	1°35'22
desc. node	15783 Feb 22 17:30	29°) 46′32		max. Earth dist.	15784 Jan 28 10:53	25° ≈ 18′10	1.32090 AU
	15783 Feb 22 20:24	$0^{\circ}\Upsilon$			15784 Jan 30 15:13	0°)	
	15783 Mar 13 09:03	9° 8		evening rise	15784 Feb 02 19:31	6°) 38′42	
evening max el	15783 Mar 25 14:59	14° 8 34'09	27°16'11	desc. node	15784 Feb 09 14:10	19°) (49′28	
retrograde	15783 Apr 08 04:48	22° 8 06'07			15784 Feb 15 09:40	0° Y	
evening set	15783 Apr 14 20:26	19° 8 35'48		evening max el	15784 Mar 07 02:56	27° Ƴ 41'20	27°35'49
min. Earth dist.	15783 Apr 18 17:06	15° 8 59'00	0.65025 AU		15784 Mar 09 16:48	9° 8	
asc. node	15783 Apr 19 02:47	15° 8 32'49		retrograde	15784 Mar 21 00:10	5° 8 10'55	
inferior conj	15783 Apr 21 03:26	13° 8 17'50	0°37'41	evening set	15784 Mar 27 19:42	2° 8 50'09	
minimum elong	15783 Apr 21 02:25	13° 8 20'39	0°36'48		15784 Mar 31 06:09	30° ŖƳ	
morning rise	15783 Apr 27 10:16	7° 8 50'19		min. Earth dist.	15784 Mar 31 14:06	29° Ƴ 41'09	0.63026 AU
direct	15783 Apr 30 03:12	7° 8 11'43		inferior conj	15784 Apr 03 11:10	26° Y ′50′01	
morning max el	15783 May 06 10:37	10° 8 27'22	17°55'56	minimum elong	15784 Apr 03 12:08	26° Y 47'37	0°29'25
	15783 May 20 02:30	0°Щ		asc. node	15784 Apr 05 00:08	25° Y ′20′03	
desc. node	15783 May 21 18:57	2° ∏ 46'17		morning rise	15784 Apr 10 07:17	21° Y ′38′03	
morning set	15783 May 24 05:04	6° Ⅱ 46'00		direct	15784 Apr 12 16:05	21° Υ 11'19	
		🗨		morning max el	15784 Apr 19 04:20	24° Y ′29'53	17°46'10
superior conj	15783 Jun 07 07:47	29° Ⅲ 38'43			15784 Apr 23 17:12	0°B	
minimum elong	15783 Jun 06 23:08	29° Ⅱ 04'23	1°49'01	morning set	15784 May 05 10:16	19° 8 13'27	
	15783 Jun 07 13:09	0°€		desc. node	15784 May 07 15:46	23° 8 04'34	
max. Earth dist.	15783 Jun 11 04:15		1.45645 AU		15784 May 11 16:47	Π $^{\circ}0$	
evening rise	15783 Jun 23 08:15	24°533'21			1550434 15 15 00	100 110 610 6	1015105
	15783 Jun 26 21:44	0° Ω	0.6	superior conj	15784 May 17 17:28	10° Ⅱ 05'06	
greatest brilliancy	15783 Jul 07 10:25	15° Ω 47'17	-0.6m	minimum elong	15784 May 17 10:26	9° Ⅱ 36'07	
asc. node	15783 Jul 16 01:38	27° Ω 31'50		max. Earth dist.	15784 May 23 22:29	20° Ⅱ 08'41	1.44597 AU
	15783 Jul 18 05:38	0° M)	10041122		15784 May 30 04:54	0°95 4°9500'08	
evening max el	15783 Jul 19 04:00	0° Mp 57'41	19°41'33	evening rise	15784 Jun 01 19:08 15784 Jun 19 08:29	4°900'08 0°Ω	
retrograde	15783 Jul 26 12:11 15783 Jul 30 06:57	5° Mp 04'45 3° Mp 42'00		arranina marral	15784 Jul 01 04:49	14° Ω 51'55	20°45'23
evening set	15783 Aug 02 21:51	3 11√42 00 30°RΩ		evening max el asc. node	15784 Jul 01 04:49	$14 \ 0.31 \ 33$ $15^{\circ} \Omega 34'50$	20 43 23
inferior conj	15783 Aug 04 14:59		2°59'29	retrograde	15784 Jul 09 11:12	19° Ω 36'49	
minimum elong	15783 Aug 04 14:39 15783 Aug 04 16:14	27° Ω 41'31	2°58'49	evening set	15784 Jul 13 16:39	$19 & 35649$ $17^{\circ} \Omega 56'20$	
min. Earth dist.	15783 Aug 04 10:14 15783 Aug 05 18:29	26°Ω13'51	0.67747 AU	inferior conj	15784 Jul 18 22:23	11° Ω 48'34	3°08'29
morning rise	15783 Aug 10 01:02	20° Ω 19'51	0.07747 AC	minimum elong	15784 Jul 18 22:41	11° Ω 47'31	3°07'48
direct	15783 Aug 15 20:08	$18^{\circ} \Omega 48'24$		min. Earth dist.	15784 Jul 19 12:11	11°Ω00'54	0.68669 AU
desc. node	15783 Aug 17 17:16	19° Ω 02'17		morning rise	15784 Jul 24 04:26	5° Ω 26'54	0.00007710
morning max el	15783 Aug 27 19:39	25° Ω 58'55	25°06'36	direct	15784 Jul 29 11:52	3° Ω 08'01	
morning man or	15783 Aug 31 12:19	0° m)		desc. node	15784 Aug 03 14:39	4°Ω50'28	
	15783 Sep 21 22:53	0∘ ত الأ		morning max el	15784 Aug 09 06:30	9° Ω 33'39	23°38'32
morning set	15783 Oct 02 15:28	18° ⊆ 00'03			15784 Aug 25 10:19	0° m)	
max. Earth dist.	15783 Oct 02 15:28 15783 Oct 06 04:12	24° £ 24'36	1.36712 AU	morning set	15784 Sep 13 05:01	29° Mg 15'07	
Zurur dist.	15783 Oct 00 04:12 15783 Oct 09 03:35	0°M	1.50,12110		15784 Sep 13 15:38	0° ت	
asc. node	15783 Oct 12 03:07	5°M46'15		max. Earth dist.	15784 Sep 17 02:38		1.39103 AU
	1.51 000 12 05.07	- 110.1010		Zurur dibt.	1.1.5.5cp 17 02.50		
superior conj	15783 Oct 12 18:52	7° ™ 03'49	0°05'58	superior conj	15784 Sep 24 18:14	19° ≏ 48'25	-0°28'35
minimum elong	15783 Oct 12 18:28	7°M01'51	0°06'19	minimum elong	15784 Sep 24 20:18	19° ≏ 58'08	0°28'01
behind sun begin	15783 Oct 12 12:29	6°M32'19		asc. node	15784 Sep 27 23:47	25° ⊆ 56'09	
behind sun end	15783 Oct 12 12:25	7°M31'27			15784 Sep 30 02:20	0° ™	
evening rise	15783 Oct 20 22:28	23°M31'05		evening rise	15784 Oct 03 21:26	7°M23'47	
-0				-0		/	

	15784 Oct 16 20:28	0° ∡		evening rise	15785 Sep 17 10:35	20° ჲ 50'37	
evening max el	15784 Oct 20 01:56	3° ∡ ¹47'25	18°48'09		15785 Sep 22 10:03	0° M	
retrograde	15784 Oct 28 13:10	8° ∡ '03'53		evening max el	15785 Oct 03 08:45	16° ™ 17'09	18°14'53
evening set	15784 Oct 30 10:48	7° ∡ 751'46		retrograde	15785 Oct 10 16:52	20°M01'53	
desc. node	15784 Oct 30 11:29	7° ∡ 751′24		evening set	15785 Oct 12 19:09	19° M 44'10	
inferior conj	15784 Nov 07 15:08	3° ∡ ³30′21		desc. node	15785 Oct 17 08:47	17° ™ 19'58	
minimum elong	15784 Nov 07 08:44	3° ∡ ′41′56	2°33'00	inferior conj	15785 Oct 20 06:03	15°M01'16	
min. Earth dist.	15784 Nov 10 15:45	1° ∡ 19'36	0.56797 AU	minimum elong	15785 Oct 20 04:01	15°M05'35	
	15784 Nov 12 16:06	30°ŖM		min. Earth dist.	15785 Oct 23 12:17	12°M16'45	0.58876 AU
morning rise	15784 Nov 15 03:39	28°M39'06		morning rise	15785 Oct 27 09:26	9° ™ 33'46	
direct	15784 Nov 21 02:18	27° ™ 14'04		direct	15785 Nov 02 19:53	7° M 42'19	
	15784 Nov 29 13:35	0° ∡ ¹		morning max el	15785 Nov 17 02:57	15°M22'50	27°31'49
morning max el	15784 Dec 05 06:40	4° ∡ ³34'16	26°26'22		15785 Nov 29 00:16	0° ∡	
	15784 Dec 23 16:12	0°ප		asc. node	15785 Dec 11 21:13	21° ∡ ′42′08	
asc. node	15784 Dec 25 00:09	2° る 23'36			15785 Dec 16 01:33	0°ප	
morning set	15785 Jan 03 03:22	20° පි 39'01		morning set	15785 Dec 18 10:56	5° る 00'08	
	15785 Jan 07 09:31	0° ≈					
				superior conj	15785 Dec 25 08:55	20° る 12'45	1°35'17
superior conj	15785 Jan 09 21:26	5° ≈ 34'28	1°38'04	minimum elong	15785 Dec 25 07:56	20° る 07'12	1°36'02
minimum elong	15785 Jan 09 21:28	5° ≈ 34'39	1°38'48	max. Earth dist.	15785 Dec 25 00:37	19° る 26'16	1.31012 AU
max. Earth dist.	15785 Jan 10 16:43	7° ≈ 22'00	1.31285 AU		15785 Dec 29 18:17	0° ≈	
evening rise	15785 Jan 16 20:29	20° ≈ 47'12		evening rise	15786 Jan 01 02:41	5° ≈ 07'02	
	15785 Jan 21 08:58	0° ∀		desc. node	15786 Jan 13 07:38	28° ≈ 44'22	
desc. node	15785 Jan 26 10:52	9° ∺ 31'27			15786 Jan 14 01:37	0° ∀	
	15785 Feb 08 14:34	0 ° Υ		evening max el	15786 Jan 30 11:41	21°) (44′16	26°35'06
evening max el	15785 Feb 17 10:47	10° Y ′08′22	27°23'03	retrograde	15786 Feb 13 11:33	28° ¥ 54'30	
retrograde	15785 Mar 03 10:54	17° Y ′29'29		evening set	15786 Feb 19 21:35	27° ¥ 13′32	
evening set	15785 Mar 10 05:13	15° Ƴ 25'25		min. Earth dist.	15786 Feb 24 01:14	24°) ₹35′53	0.58592 AU
min. Earth dist.	15785 Mar 14 00:56	12° Y '37'26	0.60823 AU	inferior conj	15786 Feb 27 05:22	22° 升 12′02	-3°18'50
inferior conj	15785 Mar 17 05:06	9° Y 51'33	-1°49'44	minimum elong	15786 Feb 27 12:54	21°) € 57'45	3°15'57
minimum elong	15785 Mar 17 09:07	9° Ƴ 42'45	1°48'11	morning rise	15786 Mar 07 07:38	17°) (40′01	
asc. node	15785 Mar 22 21:32	5° Ƴ 40'42		direct	15786 Mar 09 06:58	17° ¥ 26′26	
morning rise	15785 Mar 24 16:20	4° Υ 58'11		asc. node	15786 Mar 09 18:54	17° ¥ 27′20	
direct	15785 Mar 26 18:52	4° Y 39'47		morning max el	15786 Mar 17 07:20	21°) 24'07	18°22'32
morning max el	15785 Apr 02 20:28	8° Y 12'19	17°54'33		15786 Mar 23 20:49	$0^{\circ}\mathbf{\Upsilon}$	
	15785 Apr 17 00:54	0°8		morning set	15786 Apr 02 01:48	16° Ƴ 33'13	
morning set	15785 Apr 18 11:01	2° 8 34'44			15786 Apr 09 04:25	0°8	
desc. node	15785 Apr 24 12:30	13° 8 31'30					
				superior conj	15786 Apr 11 09:33	4° 8 04'52	-0°00'08
superior conj	15785 Apr 29 02:41	21° 8 35'42	-0°36'51	minimum elong	15786 Apr 11 09:31	4° 8 04'43	0°00'30
minimum elong	15785 Apr 28 23:24	21° 8 21'33	0°36'55	behind sun begin	15786 Apr 11 02:14	3° 8 31'26	
	15785 May 04 01:18	Π $^{\circ}0$		behind sun end	15786 Apr 11 16:47	4° 8 37'55	
max. Earth dist.	15785 May 06 12:58	4° Ⅱ 06'58	1.42943 AU	desc. node	15786 Apr 11 09:11	4° 8 03'12	
evening rise	15785 May 12 16:15	13° Ⅲ 59′01		max. Earth dist.	15786 Apr 18 22:36	17° 8 25'24	1.40857 AU
	15785 May 23 04:00	0 \circ \odot		evening rise	15786 Apr 23 08:49	24° 8 50'32	
evening max el	15785 Jun 14 00:00	28° © 45'37	22°00'13		15786 Apr 26 13:07	$\Pi^{\circ}0$	
	15785 Jun 15 07:03	$\mathfrak{O}^{\circ} \mathfrak{O}$			15786 May 16 23:13	0 \circ \odot	
asc. node	15785 Jun 18 19:28	2° Ω 43′52		evening max el	15786 May 27 15:11	12° © 39'20	23°21'03
retrograde	15785 Jun 23 09:19	4° Ω 14'39		asc. node	15786 Jun 05 16:29	18° 5 42'15	
evening set	15785 Jun 28 02:02	2° Ω 17'18		retrograde	15786 Jun 07 05:09	18° © 52'22	
	15785 Jun 30 07:28	30° ₹ 5		evening set	15786 Jun 12 09:24	16° 5 40'17	
inferior conj	15785 Jul 03 07:59	25° © 59'31	3°06'22	min. Earth dist.	15786 Jun 17 05:16	10° © 57'50	0.69033 AU
minimum elong	15785 Jul 03 07:20	26° © 01'45	3°05'32	inferior conj	15786 Jun 17 17:48	10° © 14'36	2°53'46
min. Earth dist.	15785 Jul 03 08:28	25° © 57'48	0.69097 AU	minimum elong	15786 Jun 17 16:21	10° © 19'38	2°52'43
morning rise	15785 Jul 08 12:28	19° © 44'21		morning rise	15786 Jun 22 23:15	4° © 07'22	
direct	15785 Jul 13 07:33	17° © 42'31		direct	15786 Jun 27 06:04	2° © 24'53	
desc. node	15785 Jul 21 11:56	22° © 00'56		morning max el	15786 Jul 05 13:26	7° 5 09'48	20°48'57
morning max el	15785 Jul 22 19:29	23° © 16'50	22°10'13	desc. node	15786 Jul 08 09:09	10° © 12'31	
	15785 Jul 28 17:04	$0^{\circ}\Omega$			15786 Jul 22 23:41	$0^{\circ}\Omega$	
	15785 Aug 18 18:16	0° ™		morning set	15786 Aug 04 10:41	18° Ω 49'32	
morning set	15785 Aug 24 19:08	9°m/30'38			15786 Aug 11 12:41	0° m)	
max. Earth dist.	15785 Aug 30 04:38	18° m 20'53	1.41455 AU	max. Earth dist.	15786 Aug 12 12:38	1° Mp 36'23	1.43495 AU
	15785 Sep 05 23:54	0∘ ⊽					
				superior conj	15786 Aug 19 07:58	12° m 47'41	-1°39'32
superior conj	15785 Sep 07 00:02	1° ≏ 46′23	-1°05'11	minimum elong	15786 Aug 19 15:37	13° m 19'44	1°39'02
minimum elong	15785 Sep 07 05:16	2° ჲ 09'34	1°04'27		15786 Aug 29 07:44	0∘ ত	
asc. node	15785 Sep 14 20:28	16° ≙ 02'01		evening rise	15786 Aug 31 09:24	3° ॒ 39'13	

minimum elong	15788 Jul 09 06:15	2° Ω 10'55	2°14'55		15789 Jun 30 14:16	0°Ω	
evening rise	15788 Jul 24 15:42	26°Ω31'58	2 1433	evening rise	15789 Jul 04 18:39	6° Ω 28'41	
e vennig 1190	15788 Jul 26 19:38	0° m)		greatest brilliancy	15789 Jul 16 09:00	24°Ω16'05	-0.7m
asc. node	15788 Aug 05 10:25	15° m) 10'07		g,	15789 Jul 20 06:37	0° m)	****
evening max el	15788 Aug 14 02:02	26° m) 29'49	18°30'48	asc. node	15789 Jul 23 07:08	4° m) 11'10	
retrograde	15788 Aug 20 13:14	29° m 58'10		evening max el	15789 Jul 28 11:50	~	19°11'08
evening set	15788 Aug 23 16:39	29° m 02'31		retrograde	15789 Aug 04 10:01	14° m) 09'27	
inferior conj	15788 Aug 29 10:20	23° m/ 27'03	2°19'01	evening set	15789 Aug 07 23:04	12° m 56'39	
minimum elong	15788 Aug 29 12:38	23° m/20'07	2°18'16	inferior conj	15789 Aug 13 09:42	7° m 07'22	2°48'42
min. Earth dist.	15788 Aug 31 11:57	20° m 57'38	0.65395 AU	minimum elong	15789 Aug 13 11:26	7° m 01'43	2°48'01
morning rise	15788 Sep 04 07:23	17° m 03'17		min. Earth dist.	15789 Aug 14 21:08	5° m 12'34	0.67015 AU
desc. node	15788 Sep 07 00:56	15° m) 16'44		morning rise	15789 Aug 18 23:09	0° m 40'56	
direct	15788 Sep 10 17:30	14° m 25'55			15789 Aug 19 19:20	30° R Ω	
morning max el	15788 Sep 24 02:35	22° m 17'20	27°02'24	desc. node	15789 Aug 24 22:21	28° Ω 05′26	
	15788 Sep 30 21:34	0∘ ⊽		direct	15789 Aug 25 00:19	28° Ω 05′24	
	15788 Oct 21 00:00	0°M₊			15789 Aug 30 20:21	0° m	
morning set	15788 Oct 29 17:23	15°M54'25		morning max el	15789 Sep 06 13:58	5° m 34'44	25°53'35
asc. node	15788 Nov 01 11:55	21°ML21'02			15789 Sep 25 10:32	0∘ ⊽	
max. Earth dist.	15788 Nov 02 22:41	24°M16'06	1.33536 AU	morning set	15789 Oct 12 12:43	28° ≏ 27'39	
	15788 Nov 05 17:26	0° ∡ ¹			15789 Oct 13 08:44	0° M	
				max. Earth dist.	15789 Oct 16 04:56	5°M21′26	1.35445 AU
superior conj	15788 Nov 07 05:20	3° ∡ ¹08'38	0°50'44	asc. node	15789 Oct 19 08:40	11°MJ30'24	
minimum elong	15788 Nov 07 03:06	2° ∡ ¹56'53	0°51'03				
evening rise	15788 Nov 14 09:12	18° ∡ ¹26'42		superior conj	15789 Oct 21 23:54	16° M 47′36	0°23'53
	15788 Nov 20 00:40	0°ಕ		minimum elong	15789 Oct 21 22:33	16°M40'46	0°24'10
desc. node	15788 Dec 03 22:22	21° る 20'02			15789 Oct 28 09:22	0° ∡ ¹	
evening max el	15788 Dec 05 01:59	22° ろ 30'34	21°53'27	evening rise	15789 Oct 29 17:06	2° ∡ ⁴44'31	
retrograde	15788 Dec 17 11:59	28° පි 38'56			15789 Nov 14 08:02	0°ಕ	
evening set	15788 Dec 20 18:46	28° る 14'52		evening max el	15789 Nov 17 00:18	2° る 58'43	20°24'37
inferior conj	15788 Dec 29 09:13	24° る 23'59		desc. node	15789 Nov 20 19:29	6° ろ 06'50	
minimum elong	15788 Dec 29 06:04	24° ろ 28'23	5°57'40	retrograde	15789 Nov 27 22:46	8° ට 25'13	
min. Earth dist.	15788 Dec 29 06:50	24°る27'18	0.54428 AU	evening set	15789 Nov 30 05:36	8°る12'04	
morning rise	15789 Jan 06 18:07	20°る36'28		inferior conj	15789 Dec 09 01:30	4°る17'06	
direct	15789 Jan 10 07:56	20°る08'22	21050112	minimum elong	15789 Dec 08 15:54	4°る31'10	
morning max el	15789 Jan 22 17:40	26° る 08'19	21°59'13	min. Earth dist.	15789 Dec 10 12:32	3° る 25'45	0.54675 AU
1	15789 Jan 26 07:16	0°≈ 2°≈ - 45!25		morning rise	15789 Dec 17 01:47	0°る17'08	
asc. node	15789 Jan 28 10:56	2°≈45'25 0°¥16'05		1: 4	15789 Dec 18 01:18	30°₹ ⋌ 7	
morning set	15789 Feb 12 19:07	0° ∺ 1605		direct	15789 Dec 21 16:47	29° メ 31'04 0°る	
	15789 Feb 12 16:03	0°π		morning max el	15789 Dec 25 06:48 15790 Jan 04 04:07	6° る 07'52	22947156
superior conj	15789 Feb 19 21:47	15° ¥ 22'58	1017113	asc. node	15790 Jan 15 08:13	0 00732 20°る23'45	23 47 30
minimum elong	15789 Feb 20 00:08		1°17'13	asc. node	15790 Jan 20 21:09	20° ≈	
max. Earth dist.	15789 Feb 24 00:37		1.34362 AU	morning set	15790 Jan 28 07:00	0 ∞ 14°≈59'48	
max. Earth dist.	15789 Feb 27 02:18	25 γ (33 34	1.54502 AU	morning set	13/90 Jan 28 07.00	14 25740	
evening rise	15789 Feb 28 07:17	2° Υ '20'11		superior conj	15790 Feb 04 02:58	29° ≈ 51'40	1°30'12
desc. node	15789 Mar 01 23:04	5° Υ 28'53		minimum elong	15790 Feb 04 04:37	0° ₩ 00'34	1°30'33
dese. Hode	15789 Mar 16 10:08	0°8		minimum ciong	15790 Feb 04 04:30	0° ∀	1 30 33
evening max el	15789 Apr 04 08:13	24° 8 10'49	26°52'37	max. Earth dist.	15790 Feb 06 20:55		1.32784 AU
<i>y</i>	15789 Apr 11 20:38	0°II		evening rise	15790 Feb 11 19:16	15° ¥ 58'25	
retrograde	15789 Apr 17 15:01	1° Ⅱ 38'59		desc. node	15790 Feb 16 19:43	25°) 40′16	
	15789 Apr 22 21:01	30°R ∀			15790 Feb 19 04:39	0° Υ	
evening set	15789 Apr 24 02:43	29° 8 06'47			15790 Mar 11 00:29	0°B	
asc. node	15789 Apr 26 07:56	27° 8 05'34		evening max el	15790 Mar 17 21:12	7° 8 33'39	27°28'06
min. Earth dist.	15789 Apr 28 01:53	25° 8 11'44	0.66035 AU	retrograde	15790 Mar 31 14:26	15° 8 05'09	
inferior conj	15789 Apr 30 05:04	22° 8 42'34	1°10'16	evening set	15790 Apr 07 08:28	12° 8 37'50	
minimum elong	15789 Apr 30 03:24	22° 8 47'29	1°09'04	min. Earth dist.	15790 Apr 11 03:49	9° 8 13'48	0.64212 AU
morning rise	15789 May 06 05:24	17° 8 07'00		asc. node	15790 Apr 13 05:15	7° 8 03'32	
direct	15789 May 09 03:44	16° 8 19'52		inferior conj	15790 Apr 13 19:04	6° 8 26'42	0°10'52
morning max el	15789 May 15 11:52	19° 8 38'44	18°09'29	minimum elong	15790 Apr 13 18:46	6° 8 27'31	0°10'20
	15789 May 23 12:39	$\Pi^{\circ}0$		transit middle	15790 Apr 13 18:46	6° 8 27'31	0°10'20
desc. node	15789 May 29 00:19	8° Ⅲ 32'36		transit begin	15790 Apr 13 16:24	6° 8 33'49	
morning set	15789 Jun 03 14:07	17° Ⅱ 29'42		transit end	15790 Apr 13 21:08	6° 8 21'14	
	15789 Jun 11 09:44	0ං ම		morning rise	15790 Apr 20 07:16	1° 8 05'39	
				direct	15790 Apr 22 20:41	0° 8 32'26	
superior conj	15789 Jun 18 15:49	11° © 25'54	-2°03'17	morning max el	15790 Apr 29 04:59	3° 8 47'34	17°49'42
minimum elong	15789 Jun 18 08:40	10°957'57		desc. node	15790 May 15 21:12	28° 8 43'02	
max. Earth dist.	15789 Jun 20 17:42	14° © 40'53	1.45939 AU	morning set	15790 May 16 05:12	29° 8 16'41	

	15790 May 16 15:30	0°Ⅲ			15791 May 09 01:54	0°Щ	
superior conj	15790 May 29 13:22	21° Ⅱ 17'41	-1°35'36	superior conj	15791 May 10 08:57	2° Ⅱ 10'56	-0°58'59
minimum elong	15790 May 29 04:54	20° Ⅱ 43'35	1°35'30	minimum elong	15791 May 10 03:28	1° Ⅱ 47'51	0°58'52
max. Earth dist.	15790 Jun 03 13:31	29° Ⅱ 15′50	1.45277 AU	max. Earth dist.	15791 May 17 05:54	13° Ⅲ 29′26	1.43946 AU
	15790 Jun 04 00:43	0 \circ \odot		evening rise	15791 May 24 20:03	25° Ⅱ 28'34	
evening rise	15790 Jun 14 06:41	15° © 53'27			15791 May 27 18:39	0 \circ \odot	
	15790 Jun 23 14:48	0 \circ Ω			15791 Jun 17 15:29	0 $^{\circ}\Omega$	
asc. node	15790 Jul 10 03:57	22° Ω 38′28		evening max el	15791 Jun 24 14:10	8° Ω 06'19	21°16'12
evening max el	15790 Jul 11 16:02	24°Ω13'17	20°07'04	asc. node	15791 Jun 27 00:50	10° Ω 19'53	
retrograde	15790 Jul 19 08:56	28° Ω35'38 27° Ω05'09		retrograde	15791 Jul 03 07:51	13°Ω10'16 11°Ω22'31	
evening set inferior conj	15790 Jul 23 08:10 15790 Jul 28 14:52	21° Ω 03'34	3°04'45	evening set inferior conj	15791 Jul 07 17:56 15791 Jul 12 23:26	$5^{\circ}\Omega 10'07$	3°08'56
minimum elong	15790 Jul 28 15:44	21°Ω00'37	3°04'05	minimum elong	15791 Jul 12 23:20	5°Ω10'28	3°08'11
min. Earth dist.	15790 Jul 29 12:24	19°Ω50'20	0.68191 AU	min. Earth dist.	15791 Jul 13 07:32	4°Ω41'53	0.68899 AU
morning rise	15790 Aug 02 22:55	14° Ω 39'04			15791 Jul 17 00:06	30°Rூ	
direct	15790 Aug 08 13:03	12° Ω 12'36		morning rise	15791 Jul 18 04:29	28° © 50'45	
desc. node	15790 Aug 11 19:45	12° Ω 54'47		direct	15791 Jul 23 06:37	26°538'42	
morning max el	15790 Aug 20 01:00	19° Ω 05'32	24°29'51	desc. node	15791 Jul 29 17:05	29° 5 20'12	
	15790 Aug 29 07:09	0° m			15791 Jul 30 13:16	$0^{\circ}\Omega$	
	15790 Sep 18 12:50	0∘ ⊽		morning max el	15791 Aug 02 12:28	2° Ω 43'41	23°00'35
morning set	15790 Sep 24 14:29	10° ≙ 14'55			15791 Aug 23 07:38	0° m	
max. Earth dist.	15790 Sep 28 04:41	16° ≏ 36'45	1.37715 AU	morning set	15791 Sep 05 18:23	21°M) 05'26	
	15500 0 . 05 05 05	200 0 5 4152	000011.5	max. Earth dist.	15791 Sep 10 03:35	28° m/27'30	1.40119 AU
superior conj	15790 Oct 05 07:25	29° Ω 54'52			15791 Sep 11 01:07	0∘ 亚	
minimum elong behind sun begin	15790 Oct 05 07:57 15790 Oct 05 01:59	29° £ 57'25 29° £ 28'37	0°07'49	aumariar aani	15701 Cap. 17, 22:50	12° ჲ 20'33	0944102
behind sun begin	15790 Oct 05 01:59 15790 Oct 05 13:55	0°M26'17		superior conj minimum elong	15791 Sep 17 23:50 15791 Sep 18 03:13	12° £ 20'33	-0°44'03 0°43'23
bennia sun ena	15790 Oct 05 13:35 15790 Oct 05 08:29	0°M		asc. node	15791 Sep 18 03:13 15791 Sep 23 02:02	21° 2 49'43	0 43 23
asc. node	15790 Oct 05 05:23	1°M41'20		ase. node	15791 Sep 27 08:51	0°M	
evening rise	15790 Oct 13 20:12	16°M48'55		evening rise	15791 Sep 27 15:27	0°M21'31	
	15790 Oct 20 16:29	0° ∡ 7		evening max el	15791 Oct 13 14:44	26°M21'49	18°31'27
evening max el	15790 Oct 30 13:13	14° ∡ 16′00	19°16'52	Č	15791 Oct 19 02:04	0° ∡ ¹	
desc. node	15790 Nov 07 16:40	18° ∡ ′52'17		retrograde	15791 Oct 21 13:13	0° ∡ °23′07	
retrograde	15790 Nov 08 20:51	18° ∡ 56'35		evening set	15791 Oct 23 12:13	0° ₹ 09'11	
evening set	15790 Nov 10 18:16	18° ∡ ¹45'50			15791 Oct 24 02:04	30°RM	
inferior conj	15790 Nov 19 07:03	14° ∡ °36′02	-3°36'44	desc. node	15791 Oct 25 13:56	29°M26'22	
minimum elong	15790 Nov 18 22:16	14° ∡ ′50′37	3°32'52	inferior conj	15791 Oct 31 09:23	25°M39'00	
min. Earth dist.	15790 Nov 21 22:07		0.55815 AU	minimum elong	15791 Oct 31 04:56	25° M 47'37	
morning rise	15790 Nov 26 23:55	10°×705'31		min. Earth dist.	15791 Nov 03 14:06	23°M11'22	0.57640 AU
direct	15790 Dec 02 12:28	8° 🗷 55'46	2502402	morning rise	15791 Nov 07 18:13	20°M31'34	
morning max el	15790 Dec 16 13:32 15790 Dec 27 19:30	16°♂02'41 0°る	25°34'02	direct	15791 Nov 13 22:47	18°M.54'49 26°M.25'04	26959120
asc. node	15790 Dec 27 19.30 15791 Jan 02 05:26	8° る 50'26		morning max el	15791 Nov 28 04:55 15791 Dec 01 14:47	20 IIG23 04 0° ⊼ ¹	20 38 29
morning set	15791 Jan 12 18:38	8 ප 3020 29° පි 38'29		asc. node	15791 Dec 20 02:33	27° х 52'44	
morning sec	15791 Jan 12 22:37	0° ≈		use. Houe	15791 Dec 21 05:31	0°る	
	15/31 0411 12 22:5/			morning set	15791 Dec 28 04:12	14° る 07'16	
superior conj	15791 Jan 19 12:13	14° ≈ 28'54	1°36'56	S			
minimum elong	15791 Jan 19 12:52	14° ≈ 32'30	1°37'35	superior conj	15792 Jan 03 23:27	29° る 08'35	1°37'37
max. Earth dist.	15791 Jan 20 23:51	17° ≈ 45'48	1.31683 AU	minimum elong	15792 Jan 03 23:02	29° පි 06'16	1°38'23
evening rise	15791 Jan 26 16:14	29° ≈ 57'33			15792 Jan 04 08:38	0° ≈	
	15791 Jan 26 16:43	0° ∀		max. Earth dist.	15792 Jan 04 06:49		1.31101 AU
desc. node	15791 Feb 03 16:23	15°) 34′39		evening rise	15792 Jan 10 19:42	14° ≈ 11'35	
	15791 Feb 12 06:06	0° Υ			15792 Jan 18 17:31	0° \	
evening max el	15791 Feb 28 07:27	20° Y 23'47	27°34'29	desc. node	15792 Jan 21 13:07	5°) €05'17	
retrograde	15791 Mar 14 06:25 15791 Mar 21 02:15	27° Y 51'01 25° Y 36'07		ovanina mar -1	15792 Feb 08 01:11 15792 Feb 10 12:38	0°Υ 2°Υ30'10	27006157
evening set min. Earth dist.	15791 Mar 21 02:15 15791 Mar 24 20:27	25° \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0.62101 AU	evening max el retrograde	15792 Feb 10 12:38 15792 Feb 24 13:27	2° γ '30'10 9° γ '47'32	21 00 31
inferior conj	15791 Mar 24 20.27 15791 Mar 27 21:19	19° Υ 46'07		evening set	15792 Feb 24 13.27 15792 Mar 02 04:58	9 1 47 32 7° Υ 52'44	
minimum elong	15791 Mar 27 23:28	19° Υ 41'03	1°01'27	min. Earth dist.	15792 Mar 06 03:02	5°Υ10'26	0.59856 AU
asc. node	15791 Mar 31 02:37	16° Υ 55'51		inferior conj	15792 Mar 09 08:14	2° Υ 31'43	
morning rise	15791 Apr 03 23:46	14° Y ′42'03		minimum elong	15792 Mar 09 13:46	2° Y 20'18	
direct	15791 Apr 06 05:34	14° Ƴ 19'24		Č	15792 Mar 12 14:35	30° ₹ ₩	
morning max el	15791 Apr 12 22:29	17° Ƴ 42'31	17°47'30	morning rise	15792 Mar 17 02:04	27°) 47′13	
	15791 Apr 21 19:28	0°B		asc. node	15792 Mar 17 00:01	27°) 48′34	
morning set	15791 Apr 28 19:22	12° 8 08'12		direct	15792 Mar 19 02:33	27°) €31'25	
desc. node	15791 May 02 17:59	19° 8 05'01			15792 Mar 25 04:00	0° Υ	

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morning max el	15792 Mar 26 12:54	1° Y °13'42	18°03'56		15793 Mar 20 15:58	0° Y	
morning set	15792 Apr 11 02:45	25° Υ 47'19	10 03 20	morning set	15793 Mar 25 22:06	9° Υ 57'40	
morning set	15792 Apr 13 09:15	0°8		morning set	13773 Widi 23 22.00	7 13740	
desc. node	15792 Apr 18 14:42	9° 8 34'29		superior conj	15793 Apr 03 18:39	26° Y ′57'54	0°14'10
dese. Hode	13772 Apr 10 14.42) 0342)		minimum elong	15793 Apr 03 19:35	27° Υ 02'17	0°13'42
superior conj	15792 Apr 21 03:51	14° 8 07'50	0°20'51	behind sun begin	15793 Apr 03 16:01	26°\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot	0 13 42
minimum elong	15792 Apr 21 03:31 15792 Apr 21 02:06	14° 8 00'03		behind sun end	15793 Apr 03 10:01 15793 Apr 03 23:09	20 γ 43 34 27° Υ 18'58	
max. Earth dist.	15792 Apr 28 17:53	_	1.42091 AU	desc. node	15793 Apr 05 11:22	0° 8 06'55	
max. Earm dist.	-	27 8 10 14 0° Ⅱ	1.42091 AU	desc. node	•	0.8	
ovanina rias	15792 Apr 30 10:52 15792 May 04 00:52	5° П 49'04		max. Earth dist.	15793 Apr 05 09:52	10° 8 10'40	1.39899 AU
evening rise	15792 May 04 00.32 15792 May 19 23:49	3 <u>п</u> 4904 0° ©			15793 Apr 11 01:57	10 810 40 17°804'38	1.39699 AU
	,		22024110	evening rise	15793 Apr 15 02:38	0°Ⅱ	
evening max el	15792 Jun 06 07:26		22°34'19		15793 Apr 23 02:19	0₀©	
asc. node	15792 Jun 12 21:48	27°501'00			15793 May 14 12:59		22055140
retrograde	15792 Jun 16 05:07	27°548'22		evening max el	15793 May 19 21:49	5°954'40	23°55'49
evening set	15792 Jun 21 02:37	25°5944'41	2002110	retrograde	15793 May 30 23:24	12°523'49	
inferior conj	15792 Jun 26 09:22	19°523'20	3°02'18	asc. node	15793 May 30 18:50	12°523'40	
minimum elong	15792 Jun 26 08:21	19°526'51	3°01'24	evening set	15793 Jun 05 08:36	10°506'32	0.00000 177
min. Earth dist.	15792 Jun 26 04:23	19°5540'40	0.69126 AU	min. Earth dist.	15793 Jun 10 00:44	4°539'56	0.68863 AU
morning rise	15792 Jul 01 13:55	13°5511'10		inferior conj	15793 Jun 10 18:42	3°538'43	2°45'16
direct	15792 Jul 06 03:48	11°5517'09		minimum elong	15793 Jun 10 16:57	3°5544'38	2°44'07
morning max el	15792 Jul 15 03:02	16° © 29'56	21°34'23		15793 Jun 13 14:22	30°RⅡ	
desc. node	15792 Jul 15 14:20	16° © 58'33		morning rise	15793 Jun 16 01:19	27° Ⅲ 35'14	
	15792 Jul 26 03:19	0 \circ Ω		direct	15793 Jun 20 03:12	26° ∏ 01'01	
	15792 Aug 15 08:24	0° m)			15793 Jun 27 12:37	0∘ ௐ	
morning set	15792 Aug 15 22:13	0° Mp 54′27		morning max el	15793 Jun 27 23:38	0° © 26'43	20°17'53
max. Earth dist.	15792 Aug 22 07:28	11°Mp11'38	1.42376 AU	desc. node	15793 Jul 02 11:31	5° © 30'35	
					15793 Jul 19 18:12	0 \circ Ω	
superior conj	15792 Aug 29 20:46	23° m 55'10		morning set	15793 Jul 26 06:42	9° Ω 55'47	
minimum elong	15792 Aug 30 03:15	24°m/23'13	1°19'40	max. Earth dist.	15793 Aug 04 18:31	24° Ω 48′03	1.44217 AU
	15792 Sep 02 08:15	0∘ ⊽			15793 Aug 08 00:07	0° m ∕	
asc. node	15792 Sep 08 22:40	11° ≏ 52'05					
evening rise	15792 Sep 09 23:01	13° ≏ 42'56		superior conj	15793 Aug 10 18:38	4° m y31'11	-1°51'52
	15792 Sep 19 05:20	0° M		minimum elong	15793 Aug 11 02:23	5° Mp 02'59	1°51'38
evening max el	15792 Sep 26 00:38	9° ™ 07'09	18°06'59	evening rise	15793 Aug 23 14:07	26° Mp 11'02	
retrograde	15792 Oct 03 00:14	12°M41'51			15793 Aug 25 19:05	0∘ ⊽	
evening set	15792 Oct 05 05:37	12°M20'27		asc. node	15793 Aug 26 19:18	1° ≏ 44'27	
desc. node	15792 Oct 11 11:14	8° ™ 17'41		evening max el	15793 Sep 09 14:44	22° ≙ 21'37	18°01'58
inferior conj	15792 Oct 12 09:06	7°M28'58	-0°17'20	retrograde	15793 Sep 16 02:06	25° ≙ 43'35	
minimum elong	15792 Oct 12 08:31	7° M 30'17	0°16'40	evening set	15793 Sep 18 15:28	25° ≙ 11'07	
min. Earth dist.	15792 Oct 15 14:28	4° ™ 36′00	0.59848 AU	inferior conj	15793 Sep 25 03:10	20° ჲ 00′29	0°58'35
morning rise	15792 Oct 19 08:10	1°M48'29		minimum elong	15793 Sep 25 04:47	19° ≙ 56′20	0°58'13
	15792 Oct 23 16:58	30° ŖΩ		min. Earth dist.	15793 Sep 28 00:41	17° ≏ 02'39	0.62135 AU
direct	15792 Oct 25 22:00	29° ≏ 46'17		desc. node	15793 Sep 28 08:35	16° ≏ 43'22	
	15792 Oct 28 04:06	0° M		morning rise	15793 Oct 01 15:35	13° ≏ 55'37	
morning max el	15792 Nov 09 04:20	7°M33'16	27°47'57	direct	15793 Oct 08 07:59	11° ≏ 33'29	
	15792 Nov 26 05:06	0° ∡ ¹		morning max el	15793 Oct 22 10:36	19° ≏ 30'42	27°58'08
asc. node	15792 Dec 05 23:34	17° ∡ °21′02			15793 Oct 31 09:39	0° M	
morning set	15792 Dec 11 09:49	28° ₮ 21'06			15793 Nov 19 03:34	0° ∡ 7	
	15792 Dec 12 04:28	0°ප		asc. node	15793 Nov 22 20:30	7° ∡ ¹08'06	
max. Earth dist.	15792 Dec 17 14:20	11° る 50'54	1.31065 AU	morning set	15793 Nov 25 09:28	12° ∡ 15'34	
				max. Earth dist.	15793 Nov 30 18:38	23° ∡ ¹40'48	1.31585 AU
superior conj	15792 Dec 18 10:44	13° る 44'50	1°32'18				
minimum elong	15792 Dec 18 09:21	13° る 37'07	1°33'01	superior conj	15793 Dec 02 20:13	28° ∡ 12'52	1°20'58
evening rise	15792 Dec 25 03:30	28° る 34'47		minimum elong	15793 Dec 02 18:08	28° ∡ 01'21	1°21'32
	15792 Dec 25 19:22	0°≈			15793 Dec 03 15:36	0°ಕ	
desc. node	15793 Jan 07 09:54	24°≈02'30		evening rise	15793 Dec 09 13:45	13° る 02'48	
	15793 Jan 11 05:15	0°) €			15793 Dec 17 22:52	0° ≈	
evening max el	15793 Jan 22 10:15	13°) 43′58	26°04'39	desc. node	15793 Dec 25 06:45	12° ≈ 14'24	
retrograde	15793 Feb 05 09:15	20°) 48′21		evening max el	15794 Jan 03 23:29	24° ≈ 08'04	24°34'20
evening set	15793 Feb 11 12:53	19°) 1 9′15			15794 Jan 12 15:18	0°) €	
min. Earth dist.	15793 Feb 15 23:25	16°) 41′22	0.57693 AU	retrograde	15794 Jan 17 16:05	0°) 57'45	
inferior conj	15793 Feb 19 00:02	14°) 32′18	-3°56'56	evening set	15794 Jan 22 22:39	29° ≈ 56'31	
minimum elong	15793 Feb 19 08:44	14°) 16'46			15794 Jan 22 18:54	30° R ≈	
morning rise	15793 Feb 27 07:42	10° ∺ 09'11		min. Earth dist.	15794 Jan 28 11:18	27° ≈ 06'46	0.55884 AU
direct	15793 Mar 01 07:15	9° ¥ 56'30		inferior conj	15794 Jan 30 18:37	25° ≈ 40'54	
asc. node	15793 Mar 03 21:23	10°) 19'18		minimum elong	15794 Jan 31 03:19	25° ≈ 27'24	
morning max el	15793 Mar 09 20:14	14°) €08'36	18°40'46	morning rise	15794 Feb 08 10:06	21° ≈ 38'31	
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direct	15794 Feb 10 16:24	21° ≈ 24'47		morning rise	15795 Jan 19 07:59	2° ≈ 12'18	
asc. node	15794 Feb 18 18:44	24° ≈ 35′21		direct	15795 Jan 22 07:30	1° ≈ 51'47	
morning max el	15794 Feb 20 16:17	26° ≈ 15'48	19°40'00	morning max el	15795 Feb 02 21:52	7° ≈ 27'11	21°02'28
	15794 Feb 23 23:56	0° ∀		asc. node	15795 Feb 05 16:04	10° ≈ 24'18	
morning set	15794 Mar 10 01:31	24° ∺ 27'32			15795 Feb 17 21:47	0° ∀	
	15794 Mar 12 19:16	0 ° Υ		morning set	15795 Feb 22 09:59	9° ₩ 07'56	
superior conj	15794 Mar 18 00:57	10° Y 29′10	0°43'40	superior conj	15795 Mar 01 18:41	24°) € 30'07	1°06'50
minimum elong	15794 Mar 18 03:14	10° Ƴ 40′24	0°43'13	minimum elong	15795 Mar 01 21:14	24°) 43'15	1°06'37
desc. node	15794 Mar 23 08:02	20° Ƴ 38'49			15795 Mar 04 11:33	0° Υ	
max. Earth dist.	15794 Mar 24 08:19	22° Ƴ 31'31	1.37606 AU	max. Earth dist.	15795 Mar 06 17:11	4° Y 26′02	1.35452 AU
evening rise	15794 Mar 28 00:51	29° Ƴ 11'40		desc. node	15795 Mar 10 04:40	11° Y 06′19	
	15794 Mar 28 11:48	9° 8		evening rise	15795 Mar 10 16:29	12° Y 01'34	
	15794 Apr 16 10:04	Π \circ 0			15795 Mar 20 23:42	$0^{\circ}S$	
evening max el	15794 May 02 11:13	19° Ⅱ 48'49	25°13'58		15795 Apr 11 13:21	Π °0	
retrograde	15794 May 14 13:43	26° Ⅱ 50'32		evening max el	15795 Apr 15 00:47	3° Ⅱ 38′24	26°21'33
asc. node	15794 May 17 15:56	26° Ⅱ 10'46		retrograde	15795 Apr 27 23:13	11° II 01'10	
evening set	15794 May 20 10:17	24° Ⅲ 23′13		evening set	15795 May 04 05:54	8° Ⅱ 28'54	
min. Earth dist.	15794 May 24 18:33	19° Ⅲ 33'32		asc. node	15795 May 04 13:07	8° Ⅱ 13'47	
inferior conj	15794 May 26 01:32	17° Ⅱ 52'30	2°17'33	min. Earth dist.	15795 May 08 07:53	4° Ⅱ 14'37	0.66911 AU
minimum elong	15794 May 25 23:24	17° Ⅱ 59'30	2°16'14	inferior conj	15795 May 10 03:51	2° Ⅱ 00′16	1°38'26
morning rise	15794 May 31 12:53	11° Ⅱ 58'50		minimum elong	15795 May 10 01:48	2° Ⅱ 06'33	1°37'05
direct	15794 Jun 04 03:20	10° Ⅱ 44'23			15795 May 11 20:08	30° ₹ 8	
morning max el	15794 Jun 11 03:37	14° Ⅲ 34′07	19°15'16	morning rise	15795 May 15 22:39	26° 8 17'42	
desc. node	15794 Jun 19 08:38	24° Ⅱ 42'20		direct	15795 May 19 02:30	25° 8 21'26	
	15794 Jun 23 00:45	0°€		morning max el	15795 May 25 14:22	28° 8 48'10	18°28'40
greatest brilliancy	15794 Jun 23 21:36	1° © 17'01	-0.7m		15795 May 26 18:19	Π $^{\circ}0$	
morning set	15794 Jul 05 11:23	18° © 52'10		desc. node	15795 Jun 06 05:41	14° Ⅲ 23′22	
	15794 Jul 12 16:15	$0^{\circ}\Omega$		morning set	15795 Jun 15 08:13	28° Ⅲ 38′01	
max. Earth dist.	15794 Jul 18 11:01	9° Ω 01'14	1.45453 AU		15795 Jun 16 05:02	0°ಅ	
superior conj	15794 Jul 21 17:59	14° Ω 12′08	-2°11'15	superior conj	15795 Jul 01 03:59	23° © 25'02	-2°12'00
minimum elong	15794 Jul 21 22:05	14° Ω 28′24	2°11'46	minimum elong	15795 Jul 01 00:25	23° © 11'05	2°12'42
	15794 Jul 31 14:23	0° m p		max. Earth dist.	15795 Jul 01 06:30	23° © 34'51	1.45974 AU
evening rise	15794 Aug 05 07:28	7° m 42'40			15795 Jul 05 09:19	$0^{\circ}\Omega$	
asc. node	15794 Aug 13 15:57	21° m 21'39		evening rise	15795 Jul 16 23:53	18° Ω 11'49	
	15794 Aug 19 08:34	0∘ ত			15795 Jul 24 12:04	o° mp	
evening max el	15794 Aug 24 05:21	5° £ 55'22	18°15'14	greatest brilliancy	15795 Jul 25 15:09	1° Mp 45′22	-0.8m
retrograde	15794 Aug 30 14:12	9° 亞 18'00		asc. node	15795 Jul 31 12:39	10° m/38'21	
evening set	15794 Sep 02 12:15	8° £ 31'34		evening max el	15795 Aug 07 17:37		18°45'57
inferior conj	15794 Sep 08 11:29	3° ഫ 04'27	1°54'50	retrograde	15795 Aug 14 08:41	23° m 17'50	
minimum elong	15794 Sep 08 13:49	2° £ 57'44	1°54'06	evening set	15795 Aug 17 16:01	22° m 15'12	
min. Earth dist.	15794 Sep 10 20:53	0° ჲ 20'14	0.64279 AU	inferior conj	15795 Aug 23 06:19	16° Mp 33'43	2°33'25
	15794 Sep 11 04:14	30°R, M⊅		minimum elong	15795 Aug 23 08:26	16° M) 27'07	2°32'41
morning rise	15794 Sep 14 13:42	26° Mp 44'54		min. Earth dist.	15795 Aug 25 01:59	14° Mp 17'36	0.66129 AU
desc. node	15794 Sep 15 06:00	26° Mp 14'20		morning rise	15795 Aug 28 23:51	10° m 07'51	
direct	15794 Sep 21 03:15	24° m 10'34		desc. node	15795 Sep 02 03:25	7° m 47'20	
	15794 Oct 02 14:47	0° ت		direct	15795 Sep 04 06:26	7° m/30'05	
morning max el	15794 Oct 04 20:51	2° ≏ 08'31	27°31'39	morning max el	15795 Sep 17 08:20	15° Mp 14'52	26°35'33
	15794 Oct 25 16:01	0° M .		•	15795 Sep 29 11:38	0∘ ⊽	
morning set	15794 Nov 09 00:36	25°M44'04			15795 Oct 18 10:56	0° M .	
asc. node	15794 Nov 09 17:22	27°ML07'23		morning set	15795 Oct 23 04:12	8°M39'53	
	15794 Nov 11 03:37	0° ∡ 7		max. Earth dist.	15795 Oct 27 03:11	16°ML19'44	1.34286 AU
max. Earth dist.	15794 Nov 13 15:48	5° ∡ 10′29	1.32662 AU	asc. node	15795 Oct 27 14:10	17° M .14'19	
superior conj	15794 Nov 17 01:50	12° ∡ ¹26′27	1°03'32	superior conj	15795 Nov 01 01:14	26°M19'57	0°40'03
minimum elong	15794 Nov 16 23:29	12° ∡ 13'46	1°03'55	minimum elong	15795 Oct 31 23:16	26°M09'45	0°40'20
evening rise	15794 Nov 24 00:34	27° ∡ ³30′10			15795 Nov 02 19:18	0° ∡ ¹	
	15794 Nov 25 04:40	ರ°0		evening rise	15795 Nov 08 10:06	11° ∡ 752'36	
desc. node	15794 Dec 12 03:42	29° る 24'02			15795 Nov 17 16:32	ರ°0	
	15794 Dec 12 15:23	0° ≈		evening max el	15795 Nov 28 00:10	14° る 12'01	21°13'26
evening max el	15794 Dec 16 08:52	4° ≈ 04'31	22°51'16	desc. node	15795 Nov 29 00:44	15° ට 10'05	
retrograde	15794 Dec 29 10:18	10° ≈ 32'32		retrograde	15795 Dec 09 20:33	20° ප 03'57	
evening set	15795 Jan 02 10:59	9° ≈ 57'12		evening set	15795 Dec 12 15:14	19° ප් 45'59	
min. Earth dist.	15795 Jan 09 18:08	6° ≈ 35'51	0.54712 AU	inferior conj	15795 Dec 21 09:25	15° ರ 55'05	-5°44'41
inferior conj	15795 Jan 10 18:29	6° ≈ 01'14	-5°59'27	minimum elong	15795 Dec 21 02:41	16° ප 04'35	5°42'57
minimum elong	15795 Jan 10 20:51	5° ≈ 57'53		min. Earth dist.	15795 Dec 21 23:38		0.54412 AU
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marning rise	15705 Dag 20 14:27	12° る 04'23			15706 Nov. 21, 00:24	200p. 7	
morning rise	15795 Dec 29 14:27				15796 Nov 21 00:24	30°₹ ⋌ 7	4022122
direct	15796 Jan 02 15:00	11°る29'24	2201422	inferior conj	15796 Nov 30 05:53	25° ₹ 55'43	
morning max el	15796 Jan 15 13:32	17° る 46'47	22°44'32	minimum elong	15796 Nov 29 19:51	26° ∡ 11′05	4°29'39
asc. node	15796 Jan 23 13:24	27° る 28'02		min. Earth dist.	15796 Dec 02 06:40	24° ∡ ′41′01	0.55058 AU
	15796 Jan 25 05:34	0° ≈		morning rise	15796 Dec 08 02:55	21° ∡ ⁴44'32	
morning set	15796 Feb 06 21:12	23° ≈ 52′04		direct	15796 Dec 13 04:02	20° ∡ ¹48'39	
	15796 Feb 09 17:48	0° ∀		morning max el	15796 Dec 26 22:09	27° ∡ ³39'14	24°34'33
					15796 Dec 29 05:29	0°る	
superior conj	15796 Feb 13 20:29	8° ¥ 51′05	1°23'29	asc. node	15797 Jan 09 10:40	15° る 29'03	
minimum elong	15796 Feb 13 22:35	9°) 02′19	1°23'39		15797 Jan 17 06:49	0° ≈	
max. Earth dist.	15796 Feb 17 08:49	16° ¥ 15'02	1.33633 AU	morning set	15797 Jan 21 09:13	8° ≈ 34'38	
	15796 Feb 21 22:00	25°\(\frac{15}{25}\)'00	1.55055 AU	morning set	13/7/ Juli 21 07.13	0 ~54 50	
evening rise		25 γ (25 00			15707 1 20 02 41	22024120	1022140
	15796 Feb 24 07:11			superior conj	15797 Jan 28 03:41	23° ≈ 24'39	1°33'48
desc. node	15796 Feb 25 01:17	1° Y ′25′07		minimum elong	15797 Jan 28 04:56	23° ≈ 31'27	
	15796 Mar 13 10:27	0°8		max. Earth dist.	15797 Jan 30 08:17	28° ≈ 11'17	1.32254 AU
evening max el	15796 Mar 27 14:28	17° 8 14'49	27°10'56		15797 Jan 31 04:27	0°) €	
retrograde	15796 Apr 10 02:45	24° 8 46'12		evening rise	15797 Feb 04 14:12	9°) 13′49	
evening set	15796 Apr 16 17:24	22° 8 15'17		desc. node	15797 Feb 10 21:56	21°) € 30'34	
asc. node	15796 Apr 20 10:25	18° 8 45'23			15797 Feb 15 16:51	$0^{\circ}\mathbf{\Upsilon}$	
min. Earth dist.	15796 Apr 20 14:41	18° 8 33'46	0.65295 AU		15797 Mar 09 15:48	0° ႘	
inferior conj	15796 Apr 22 23:10	15° 8 55'22	0°46'45	evening max el	15797 Mar 10 02:50	0° 8 26'46	27°34'49
	15796 Apr 22 21:57	15° 8 58'48	0°45'46	C	15797 Mar 23 23:07	7° 8 56'45	27 3447
minimum elong	1	_	0 43 40	retrograde		_	
morning rise	15796 Apr 29 04:13	10° 8 25'35		evening set	15797 Mar 30 18:25	5° 8 34'09	
direct	15796 May 01 22:31	9° 8 44'53		min. Earth dist.	15797 Apr 03 13:01	2° 8 21'25	0.63344 AU
morning max el	15796 May 08 05:53	13° 8 01'06	17°58'54		15797 Apr 05 21:13	30° ₹Ƴ	
	15796 May 20 09:27	Π $\circ 0$		inferior conj	15797 Apr 06 08:38	29° Ƴ 30'56	-0°18'23
desc. node	15796 May 23 02:37	4° Ⅱ 24'57		minimum elong	15797 Apr 06 09:14	29° Y 29'27	0°18'29
morning set	15796 May 26 07:49	9° Ⅱ 41'01		asc. node	15797 Apr 07 07:44	28° Y 33'07	
	15796 Jun 07 21:33	0°ഇ		morning rise	15797 Apr 13 02:37	24° Y 16'25	
				direct	15797 Apr 15 12:36	23° Y '48'03	
superior conj	15796 Jun 09 16:47	2°951'07	-1°53'11	morning max el	15797 Apr 21 23:30	27° Y °05'17	17°46'28
minimum elong	15796 Jun 09 08:19	2°917'40		morning max er	15797 Apr 24 13:59	0°8	17 40 20
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max. Earth dist.	15796 Jun 13 02:41	8°513'02	1.45745 AU	morning set	15797 May 08 09:29	21° 8 58'15	
evening rise	15796 Jun 25 18:44	27° 5 49'58		desc. node	15797 May 09 23:29	24° 8 41'18	
	15796 Jun 27 04:39	0 \circ Ω			15797 May 13 02:10	Π °0	
greatest brilliancy	15796 Jul 09 07:13	18° Ω 17'15	-0.7m				
asc. node	15796 Jul 17 09:25	29° Ω 26′27		superior conj	15797 May 20 23:02	13° Ⅱ 07′26	-1°20'40
	15796 Jul 17 20:21	0° m y		minimum elong	15797 May 20 15:32	12° Ⅲ 36'42	1°20'29
evening max el	15796 Jul 21 01:14	3°m/33'58	19°33'10	max. Earth dist.	15797 May 26 21:27	22° Ⅱ 41′25	1.44797 AU
retrograde	15796 Jul 28 06:34	7° m/35'55			15797 May 31 12:53	0°ಅ	
evening set	15796 Jul 31 23:50	6° m) 15'47		evening rise	15797 Jun 05 05:18	7° © 14'21	
inferior conj	15796 Aug 06 08:28	0° my 21'21	2°57'01	evening rise	15797 Jun 20 11:56	0°Ω	
minimum elong	15796 Aug 06 09:51	0° m) 16'44		evening max el	15797 Jul 04 02:56	17° Ω 27'45	20025105
minimum ciong	•		2 30 21	•		$17^{\circ}\Omega 35'58$	20 33 03
1 D 4 D 4	15796 Aug 06 14:53	30°RΩ	0.68588.411	asc. node	15797 Jul 04 06:15		
min. Earth dist.	15796 Aug 07 14:02	28° Ω 43'19	0.67577 AU	retrograde	15797 Jul 12 05:34	22° Ω 06′26	
morning rise	15796 Aug 11 19:20	23°Ω55'15		evening set	15797 Jul 16 09:26	20° Ω 28'25	
direct	15796 Aug 17 16:08	21° Ω 22'29		inferior conj	15797 Jul 21 15:20	14° Ω 22'15	3°07'50
desc. node	15796 Aug 19 00:50	21° Ω 29'45		minimum elong	15797 Jul 21 15:47	14° Ω 20'40	3°07'10
morning max el	15796 Aug 29 19:22	28° Ω 38′08	25°19'04	min. Earth dist.	15797 Jul 22 07:06	13° Ω 27'57	0.68562 AU
	15796 Aug 31 02:51	0° m y		morning rise	15797 Jul 26 21:50	7° Ω 59'51	
	15796 Sep 22 05:43	0∘ ⊽		direct	15797 Aug 01 07:01	5° Ω 38'54	
morning set	15796 Oct 04 16:33	20° ≏ 54'29		desc. node	15797 Aug 05 22:12	7° Ω 03'00	
max. Earth dist.	15796 Oct 08 05:35	27° ≏ 23'43	1.36376 AU	morning max el	15797 Aug 12 06:10	12° Ω 11'39	23°51'54
max. Earth dist.	15796 Oct 09 14:50	0°M.	1.50570710	morning max or	15797 Aug 26 13:38	0° my	25 5151
					-	0∘ ত بابا	
asc. node	15796 Oct 13 10:56	7° ™ 24'54			15797 Sep 15 00:42		
	155060 11111		0010170	morning set	15797 Sep 16 09:24	2° Ω 18'09	
superior conj	15796 Oct 14 15:33	9° M 46'31	0°10'50	max. Earth dist.	15797 Sep 20 04:21	8° ≏ 51'53	1.38744 AU
minimum elong	15796 Oct 14 14:52	9° M 43′08	0°11'11				
behind sun begin	15796 Oct 14 10:15	9° ™ 20'08		superior conj	15797 Sep 27 17:10	22° ≏ 37'23	-0°23'08
behind sun end	15796 Oct 14 19:30	10°M06'10		minimum elong	15797 Sep 27 18:49	22° ≏ 45'07	0°22'35
evening rise	15796 Oct 22 16:14	26°M05'11		asc. node	15797 Sep 30 07:37	27° ≏ 35'14	
-	15796 Oct 24 14:35	0° ∡ ¹			15797 Oct 01 13:34	0°M₊	
evening max el	15796 Nov 09 04:48	25° х 00′42	19°53'09	evening rise	15797 Oct 06 16:23	10°M01'18	
desc. node	15796 Nov 14 21:51	29°× 00'12			15797 Oct 17 17:39	0° ⊼	
acse. node	15796 Nov 17 20:54	0802 0°る		evening max el	15797 Oct 17 17:39 15797 Oct 22 23:28	6° ∡ ³39'05	18°54'50
ratra ara da				•			10 24 20
retrograde	15796 Nov 19 10:18	0° る 06'51		retrograde	15797 Oct 31 15:41	11°×701'35	
evening set	15796 Nov 21 11:30	29° ₹ 55'30		desc. node	15797 Nov 01 19:04	10° ∡ 757'17	

	15707 N 02 12 02	100 7 40156			15700 0 . 22 07 26	1.70M 5.510.0	1000154
evening set	15797 Nov 02 13:02	10° × 49'56	2052107	inferior conj	15798 Oct 23 07:26	17°M55'29	
inferior conj	15797 Nov 10 19:43	6° × ⁷ 31'31	-2°52'07 2°48'42	minimum elong	15798 Oct 23 04:49	18°M00'56	1°08'16
minimum elong	15797 Nov 10 12:39	6° х ⁴44'01 4° х ⁴27'15	0.56525 AU	min. Earth dist.	15798 Oct 26 13:36	15°M14'42 12°M32'51	0.58548 AU
min. Earth dist.	15797 Nov 13 18:17	1° x ⁷ 45'46	0.30323 AU	morning rise	15798 Oct 30 12:16	12 IIL3231 10°ML45'09	
morning rise direct	15797 Nov 18 09:24 15797 Nov 24 05:36	0° ∡ ′24'52		direct morning max el	15798 Nov 05 21:21 15798 Nov 20 04:26	18°M23'23	27024122
morning max el	15797 Nov 24 03.36 15797 Dec 08 09:20	0 x ·24 32 7° x ⁷ 41'34	26012145	morning max ei	15798 Nov 20 04.20 15798 Nov 29 22:50	18 1162323 0° x ⁷	21 24 22
morning max er	15797 Dec 08 09.20 15797 Dec 24 22:27	7 x·41 34 0°る	20 13 43	asc. node	15798 Nov 29 22.30 15798 Dec 14 04:56	0 x · 23° x 126'53	
asc. node	15797 Dec 24 22.27 15797 Dec 27 07:51	0 る 4°る12'16		asc. Houe	15798 Dec 17 13:08	25 メ ・20 55	
morning set	15797 Dec 27 07:31 15798 Jan 05 20:10	4 012 10 23° る 09'33		morning set	15798 Dec 21 04:17	7°る32'40	
morning set	15798 Jan 08 23:13	23 ℃ 0933		morning set	13/96 Dec 21 04.1/	7 03240	
	13/96 Jan 06 23.13	0 ~		superior conj	15798 Dec 28 01:25	22°る41'51	1°36'06
superior conj	15798 Jan 12 13:59	8° ≈ 03'13	1°37'58	minimum elong	15798 Dec 28 00:35	22° る 37'08	1°36'51
minimum elong	15798 Jan 12 14:10	8°≈04'19	1°38'40	max. Earth dist.	15798 Dec 27 21:14	22°る18'20	1.31018 AU
max. Earth dist.	15798 Jan 13 13:30	10°≈14'13	1.31371 AU	max. Lartii dist.	15798 Dec 31 07:52	0°≈	1.51016 AC
evening rise	15798 Jan 19 14:11	23°≈19'49	1.515/1710	evening rise	15799 Jan 03 19:42	7° ≈ 37'59	
evening rise	15798 Jan 22 20:13	0° ∀		evening rise	15799 Jan 15 07:33	0° ∀	
desc. node	15798 Jan 28 18:36	11°) 15'49		desc. node	15799 Jan 15 15:19	0° ¥ 33'22	
dese. node	15798 Feb 09 12:21	0°Υ		evening max el	15799 Feb 02 13:17	24°43'10	26°44'22
evening max el	15798 Feb 20 11:21	12° Υ 59'51	27°27'06	evening man er	15799 Feb 09 14:04	0°Υ	2022
retrograde	15798 Mar 06 11:07	20° Y '22'31	27 27 00	retrograde	15799 Feb 16 13:32	1° Υ 55'37	
evening set	15798 Mar 13 06:07	18° Υ 15'23		evening set	15799 Feb 23 01:14	0° Υ 10'49	
min. Earth dist.	15798 Mar 17 01:15	15° Y 25'00	0.61158 AU	evening sec	15799 Feb 23 09:18	30°R ₩	
inferior conj	15798 Mar 20 04:47	12° Υ 37'11		min. Earth dist.	15799 Feb 27 03:05	*	0.58911 AU
minimum elong	15798 Mar 20 08:17	12° Υ 29'22	1°35'32	inferior conj	15799 Mar 02 07:52	25°\ 04'07	
asc. node	15798 Mar 25 05:06	8° Υ 44'01	1 30 32	minimum elong	15799 Mar 02 14:54	24°) 50'29	
morning rise	15798 Mar 27 13:44	7° Υ 41'02		morning rise	15799 Mar 10 08:04	20°\(\frac{1}{2}\)28'59	3 02 2)
direct	15798 Mar 29 17:05	7° Υ 21'36		direct	15799 Mar 12 07:29	20° X 14'59	
morning max el	15798 Apr 05 16:04	10° Υ 51'11	17°52'08	asc. node	15799 Mar 12 02:29	20°\(\)15'08	
morning man er	15798 Apr 18 10:07	0°8	1, 52 00	morning max el	15799 Mar 20 03:59	24°\(\)(08'20	18°17'06
morning set	15798 Apr 21 07:40	5° 8 12'24		morning man vi	15799 Mar 24 22:16	0°Υ	10 17 00
desc. node	15798 Apr 26 20:14	15° 8 07'12		morning set	15799 Apr 04 20:38	19° Y ′06'09	
acse. noue	1077011p1 20 20.11	10 007 12		morning sec	15799 Apr 10 15:28	0°8	
superior conj	15798 May 02 04:45	24° 8 28'39	-0°42'39	desc. node	15799 Apr 13 16:55	5° 8 38'28	
minimum elong	15798 May 02 00:55	24° 8 12'08	0°42'40	dese. node	10,755 11p1 15 10.00	00020	
Č	•			superior coni	15799 Apr 14 08:39	6° 8 49'55	-0°05'27
max. Earth dist.	15798 May 05 10:49	0°П 6°П44'47		superior conj minimum elong	15799 Apr 14 08:39 15799 Apr 14 08:12	. •	
max. Earth dist.	15798 May 05 10:49 15798 May 09 12:37	0°Ⅱ 6°Ⅱ44'47	1.43218 AU	minimum elong	15799 Apr 14 08:12	6° 8 47'54	-0°05'27 0°05'48
C	15798 May 05 10:49 15798 May 09 12:37 15798 May 16 00:01	0°Ⅱ 6°Ⅱ44'47 17°Ⅱ06'17			15799 Apr 14 08:12 15799 Apr 14 01:14	6° 8 47'54 6° 8 16'18	
max. Earth dist.	15798 May 05 10:49 15798 May 09 12:37 15798 May 16 00:01 15798 May 24 10:11	0°Ⅱ 6°Ⅱ44'47 17°Ⅱ06'17 0°໑		minimum elong behind sun begin behind sun end	15799 Apr 14 08:12 15799 Apr 14 01:14 15799 Apr 14 15:10	6°847'54 6°816'18 7°819'25	0°05'48
max. Earth dist. evening rise	15798 May 05 10:49 15798 May 09 12:37 15798 May 16 00:01 15798 May 24 10:11 15798 Jun 15 15:24	0°II 6°II44'47 17°II06'17 0°ജ 0°Ω	1.43218 AU	minimum elong behind sun begin behind sun end max. Earth dist.	15799 Apr 14 08:12 15799 Apr 14 01:14 15799 Apr 14 15:10 15799 Apr 21 22:40	6°847'54 6°816'18 7°819'25 20°808'40	
max. Earth dist. evening rise	15798 May 05 10:49 15798 May 09 12:37 15798 May 16 00:01 15798 May 24 10:11 15798 Jun 15 15:24 15798 Jun 16 22:47	0°Ⅱ 6°Ⅱ44'47 17°Ⅲ06'17 0°ᢒ 0°ℳ 1°ℳ21'14		minimum elong behind sun begin behind sun end	15799 Apr 14 08:12 15799 Apr 14 01:14 15799 Apr 14 15:10 15799 Apr 21 22:40 15799 Apr 26 13:24	6°847'54 6°816'18 7°819'25 20°808'40 27°849'34	0°05'48
max. Earth dist. evening rise evening max el asc. node	15798 May 05 10:49 15798 May 09 12:37 15798 May 16 00:01 15798 May 24 10:11 15798 Jun 15 15:24 15798 Jun 16 22:47 15798 Jun 21 03:08	0°∏ 6°∏44'47 17°∏06'17 0°ᢒ 0°Ω 1°Ω21'14 4°Ω54'05	1.43218 AU	minimum elong behind sun begin behind sun end max. Earth dist.	15799 Apr 14 08:12 15799 Apr 14 01:14 15799 Apr 14 15:10 15799 Apr 21 22:40 15799 Apr 26 13:24 15799 Apr 27 21:32	6°847'54 6°816'18 7°819'25 20°808'40 27°849'34 0°II	0°05'48
max. Earth dist. evening rise evening max el asc. node retrograde	15798 May 05 10:49 15798 May 09 12:37 15798 May 16 00:01 15798 May 24 10:11 15798 Jun 15 15:24 15798 Jun 16 22:47 15798 Jun 21 03:08 15798 Jun 26 03:57	0°Π 6°Π44'47 17°Π06'17 0°Φ 0°Ω 1°Ω21'14 4°Ω54'05 6°Ω43'46	1.43218 AU	minimum elong behind sun begin behind sun end max. Earth dist. evening rise	15799 Apr 14 08:12 15799 Apr 14 01:14 15799 Apr 14 15:10 15799 Apr 21 22:40 15799 Apr 26 13:24 15799 Apr 27 21:32 15799 May 18 00:34	6°847'54 6°816'18 7°819'25 20°808'40 27°849'34	0°05'48 1.41180 AU
max. Earth dist. evening rise evening max el asc. node	15798 May 05 10:49 15798 May 09 12:37 15798 May 16 00:01 15798 May 24 10:11 15798 Jun 15 15:24 15798 Jun 16 22:47 15798 Jun 21 03:08 15798 Jun 26 03:57 15798 Jun 30 18:57	0°∏ 6°∏44'47 17°∏06'17 0°ᢒ 0°Ω 1°Ω21'14 4°Ω54'05	1.43218 AU	minimum elong behind sun begin behind sun end max. Earth dist.	15799 Apr 14 08:12 15799 Apr 14 01:14 15799 Apr 14 15:10 15799 Apr 21 22:40 15799 Apr 26 13:24 15799 Apr 27 21:32 15799 May 18 00:34 15799 May 30 14:20	6°847'54 6°816'18 7°819'25 20°808'40 27°849'34 0°II 0°©	0°05'48 1.41180 AU
max. Earth dist. evening rise evening max el asc. node retrograde evening set	15798 May 05 10:49 15798 May 09 12:37 15798 May 16 00:01 15798 May 24 10:11 15798 Jun 15 15:24 15798 Jun 16 22:47 15798 Jun 21 03:08 15798 Jun 26 03:57	0°Π 6°Π44'47 17°Π06'17 0°S 0°Ω 1°Ω21'14 4°Ω54'05 6°Ω43'46 4°Ω48'46	1.43218 AU	minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node	15799 Apr 14 08:12 15799 Apr 14 01:14 15799 Apr 14 15:10 15799 Apr 21 22:40 15799 Apr 26 13:24 15799 Apr 27 21:32 15799 May 18 00:34	6°847'54 6°816'18 7°819'25 20°808'40 27°849'34 0°II 0°9 15°914'48	0°05'48 1.41180 AU
max. Earth dist. evening rise evening max el asc. node retrograde	15798 May 05 10:49 15798 May 09 12:37 15798 May 16 00:01 15798 May 24 10:11 15798 Jun 15 15:24 15798 Jun 16 22:47 15798 Jun 21 03:08 15798 Jun 26 03:57 15798 Jun 30 18:57 15798 Jul 04 23:24	0° II 6° II 44'47 17° II 06'17 0° © 0° \(\Omega\) 1° \(\Omega\) 21'14 4° \(\Omega\) 54'05 6° \(\Omega\) 43'46 4° \(\Omega\) 48'46 30° R ©	1.43218 AU 21°48'34	minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node retrograde	15799 Apr 14 08:12 15799 Apr 14 01:14 15799 Apr 14 15:10 15799 Apr 21 22:40 15799 Apr 26 13:24 15799 Apr 27 21:32 15799 May 18 00:34 15799 May 30 14:20 15799 Jun 08 00:05	6°847'54 6°816'18 7°819'25 20°808'40 27°849'34 0°11 0°9 15°914'48 21°904'28	0°05'48 1.41180 AU
max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj	15798 May 05 10:49 15798 May 09 12:37 15798 May 16 00:01 15798 May 24 10:11 15798 Jun 15 15:24 15798 Jun 16 22:47 15798 Jun 21 03:08 15798 Jun 26 03:57 15798 Jun 30 18:57 15798 Jul 04 23:24 15798 Jul 06 00:42	0°II 6°II44'47 17°II06'17 0°S 0°I 1°I21'14 4°I54'05 6°I43'46 4°I48'46 30°RS 28°S32'13	1.43218 AU 21°48'34 3°07'22	minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node	15799 Apr 14 08:12 15799 Apr 14 01:14 15799 Apr 14 15:10 15799 Apr 21 22:40 15799 Apr 26 13:24 15799 Apr 27 21:32 15799 May 18 00:34 15799 May 30 14:20 15799 Jun 08 00:05 15799 Jun 10 00:12	6°847'54 6°816'18 7°819'25 20°808'40 27°849'34 0°11 0°9 15°914'48 21°904'28 21°921'54	0°05'48 1.41180 AU 23°08'55
max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong	15798 May 05 10:49 15798 May 09 12:37 15798 May 16 00:01 15798 May 24 10:11 15798 Jun 15 15:24 15798 Jun 16 22:47 15798 Jun 21 03:08 15798 Jun 26 03:57 15798 Jun 30 18:57 15798 Jul 04 23:24 15798 Jul 06 00:42 15798 Jul 06 00:12	0°II 6°II44'47 17°II06'17 0°S 0°I 1°I21'14 4°I54'05 6°I43'46 4°I48'46 30°RS 28°S32'13 28°S33'58	1.43218 AU 21°48'34 3°07'22 3°06'35	minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node retrograde evening set	15799 Apr 14 08:12 15799 Apr 14 01:14 15799 Apr 14 15:10 15799 Apr 21 22:40 15799 Apr 26 13:24 15799 Apr 27 21:32 15799 May 18 00:34 15799 May 30 14:20 15799 Jun 08 00:05 15799 Jun 10 00:12 15799 Jun 15 02:42	6°847'54 6°816'18 7°819'25 20°808'40 27°849'34 0°11 0°9 15°914'48 21°904'28 21°921'54 19°911'54	0°05'48 1.41180 AU 23°08'55
max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	15798 May 05 10:49 15798 May 09 12:37 15798 May 16 00:01 15798 May 24 10:11 15798 Jun 15 15:24 15798 Jun 16 22:47 15798 Jun 21 03:08 15798 Jun 26 03:57 15798 Jun 26 03:57 15798 Jun 04 23:24 15798 Jul 06 00:42 15798 Jul 06 00:12 15798 Jul 06 03:07	0°II 6°II44'47 17°II06'17 0°© 0°I 1°I21'14 4°I54'05 6°I43'46 4°I48'46 30°R© 28°©32'13 28°©33'58 28°©23'45	1.43218 AU 21°48'34 3°07'22 3°06'35	minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj	15799 Apr 14 08:12 15799 Apr 14 01:14 15799 Apr 14 15:10 15799 Apr 21 22:40 15799 Apr 26 13:24 15799 Apr 27 21:32 15799 May 18 00:34 15799 May 30 14:20 15799 Jun 08 00:05 15799 Jun 10 00:12 15799 Jun 15 02:42 15799 Jun 20 10:36	6°847'54 6°816'18 7°819'25 20°808'40 27°849'34 0°II 0°© 15°©14'48 21°©04'28 21°©21'54 19°©11'54 12°©47'10	0°05'48 1.41180 AU 23°08'55 2°56'21
max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	15798 May 05 10:49 15798 May 09 12:37 15798 May 16 00:01 15798 May 24 10:11 15798 Jun 15 15:24 15798 Jun 16 22:47 15798 Jun 21 03:08 15798 Jun 26 03:57 15798 Jun 30 18:57 15798 Jul 06 00:42 15798 Jul 06 00:42 15798 Jul 06 00:12 15798 Jul 06 03:07 15798 Jul 11 05:16	0°II 6°II44'47 17°II06'17 0°© 0°I 1°I21'14 4°I54'05 6°I43'46 4°I48'46 30°R© 28°©32'13 28°©33'58 28°©23'45 22°©15'57	1.43218 AU 21°48'34 3°07'22 3°06'35	minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong	15799 Apr 14 08:12 15799 Apr 14 01:14 15799 Apr 14 15:10 15799 Apr 21 22:40 15799 Apr 26 13:24 15799 Apr 27 21:32 15799 May 18 00:34 15799 May 30 14:20 15799 Jun 08 00:05 15799 Jun 10 00:12 15799 Jun 15 02:42 15799 Jun 20 10:36 15799 Jun 20 09:15	6°847'54 6°816'18 7°819'25 20°808'40 27°849'34 0°II 0°9 15°914'48 21°904'28 21°921'54 19°911'54 12°951'50	0°05'48 1.41180 AU 23°08'55 2°56'21 2°55'22
max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	15798 May 05 10:49 15798 May 09 12:37 15798 May 16 00:01 15798 May 24 10:11 15798 Jun 15 15:24 15798 Jun 16 22:47 15798 Jun 21 03:08 15798 Jun 26 03:57 15798 Jun 30 18:57 15798 Jul 04 23:24 15798 Jul 06 00:42 15798 Jul 06 00:12 15798 Jul 06 03:07 15798 Jul 105:16 15798 Jul 16 02:09	0°II 6°II44'47 17°II06'17 0°I 0°I 0°I 1°I21'14 4°I54'05 6°I43'46 4°I48'46 30°I 28°I33'58 28°I33'58 28°I33'58 28°I5'57 20°I1'30	1.43218 AU 21°48'34 3°07'22 3°06'35 0.69059 AU	minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	15799 Apr 14 08:12 15799 Apr 14 01:14 15799 Apr 14 15:10 15799 Apr 21 22:40 15799 Apr 26 13:24 15799 Apr 27 21:32 15799 May 18 00:34 15799 May 30 14:20 15799 Jun 08 00:05 15799 Jun 10 00:12 15799 Jun 15 02:42 15799 Jun 20 10:36 15799 Jun 20 09:15 15799 Jun 20 00:01	6°847'54 6°816'18 7°819'25 20°808'40 27°849'34 0°II 0°9 15°914'48 21°904'28 21°921'54 19°911'54 12°954'710 12°9551'50 13°923'47	0°05'48 1.41180 AU 23°08'55 2°56'21 2°55'22
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	15798 May 05 10:49 15798 May 09 12:37 15798 May 16 00:01 15798 May 24 10:11 15798 Jun 15 15:24 15798 Jun 16 22:47 15798 Jun 21 03:08 15798 Jun 26 03:57 15798 Jun 04 23:24 15798 Jul 06 00:42 15798 Jul 06 00:12 15798 Jul 06 03:07 15798 Jul 105:16 15798 Jul 11 05:16 15798 Jul 16 02:09 15798 Jul 23 19:32	0°II 6°II44'47 17°II06'17 0°I 0°I 0°I 1°I21'14 4°I54'05 6°I43'46 4°I48'46 30°RI 28°I33'58 28°I33'58 28°I33'57 20°I1'30 24°I32'7	1.43218 AU 21°48'34 3°07'22 3°06'35 0.69059 AU	minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	15799 Apr 14 08:12 15799 Apr 14 01:14 15799 Apr 14 15:10 15799 Apr 21 22:40 15799 Apr 26 13:24 15799 Apr 27 21:32 15799 May 18 00:34 15799 May 30 14:20 15799 Jun 08 00:05 15799 Jun 10 00:12 15799 Jun 10 00:12 15799 Jun 20 10:36 15799 Jun 20 09:15 15799 Jun 20 00:01 15799 Jun 20 00:01 15799 Jun 25 15:43	6°847'54 6°816'18 7°819'25 20°808'40 27°849'34 0°II 0°9 15°914'48 21°904'28 21°921'54 12°951'50 13°923'47 6°938'31	0°05'48 1.41180 AU 23°08'55 2°56'21 2°55'22 0.69070 AU
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	15798 May 05 10:49 15798 May 09 12:37 15798 May 16 00:01 15798 May 24 10:11 15798 Jun 15 15:24 15798 Jun 21 03:08 15798 Jun 26 03:57 15798 Jun 30 18:57 15798 Jul 04 23:24 15798 Jul 06 00:42 15798 Jul 06 00:12 15798 Jul 06 00:12 15798 Jul 06 00:12 15798 Jul 10 05:16 15798 Jul 10 02:09 15798 Jul 23 19:32 15798 Jul 25 18:44	0°II 6°II44'47 17°II06'17 0°I 0°I 0°I 1°I21'14 4°I54'05 6°I43'46 4°I48'46 30°I 28°I33'58 28°I33'58 28°I33'57 20°I1'30 24°I27 25°I5'57'	1.43218 AU 21°48'34 3°07'22 3°06'35 0.69059 AU	minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	15799 Apr 14 08:12 15799 Apr 14 01:14 15799 Apr 14 15:10 15799 Apr 21 22:40 15799 Apr 26 13:24 15799 Apr 27 21:32 15799 May 18 00:34 15799 May 30 14:20 15799 Jun 08 00:05 15799 Jun 10 00:12 15799 Jun 10 00:12 15799 Jun 20 10:36 15799 Jun 20 09:15 15799 Jun 20 00:01 15799 Jun 25 15:43 15799 Jun 30 00:19	6°847'54 6°816'18 7°819'25 20°808'40 27°849'34 0°11 0°9 15°914'48 21°904'28 21°921'54 19°911'54 12°951'50 13°923'47 6°938'31 4°953'04	0°05'48 1.41180 AU 23°08'55 2°56'21 2°55'22 0.69070 AU
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max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	15798 May 05 10:49 15798 May 09 12:37 15798 May 16 00:01 15798 May 24 10:11 15798 Jun 15 15:24 15798 Jun 16 22:47 15798 Jun 21 03:08 15798 Jun 26 03:57 15798 Jun 04 23:24 15798 Jul 06 00:42 15798 Jul 06 00:12 15798 Jul 06 03:07 15798 Jul 11 05:16 15798 Jul 12 31 19:32 15798 Jul 23 19:32 15798 Jul 25 18:44 15798 Jul 29 12:38 15798 Aug 20 01:10 15798 Aug 20 01:10 15798 Aug 20 05:31 15798 Sep 07 09:49 15798 Sep 10 01:50 15798 Sep 10 01:50 15798 Sep 10 06:36 15798 Sep 10 04:15	0°II 6°II44'47 17°II06'17 0°I 0°I 0°I 1°I21'14 4°I54'05 6°I43'46 4°I48'46 30°RI 28°I33'58 28°I32'13 28°I33'58 28°I32'45 22°I5'57 20°I1'30 24°I02'27 25°I53'49 0°I 10°I 12°I\07'23 0°I 4°I41'54	1.43218 AU 21°48'34 3°07'22 3°06'35 0.69059 AU 22°23'07 1.41116 AU -0°59'39	minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	15799 Apr 14 08:12 15799 Apr 14 01:14 15799 Apr 14 15:10 15799 Apr 21 22:40 15799 Apr 26 13:24 15799 Apr 27 21:32 15799 May 18 00:34 15799 May 30 14:20 15799 Jun 08 00:05 15799 Jun 10 00:12 15799 Jun 15 02:42 15799 Jun 20 10:36 15799 Jun 20 09:15 15799 Jun 20 00:01 15799 Jun 20 00:01 15799 Jun 25 15:43 15799 Jun 30 00:19 15799 Jul 08 11:44 15799 Jul 08 11:44 15799 Jul 10 16:46 15799 Jul 24 04:27 15799 Aug 17 21:34 15799 Aug 18 12:11 15799 Aug 22 13:11 15799 Aug 22 13:11	6°847'54 6°816'18 7°819'25 20°808'40 27°849'34 0°II 0°5 15°514'48 21°504'28 21°521'54 19°511'54 12°547'10 12°551'50 13°523'47 6°538'31 4°553'04 9°545'12 12°506'01 0°0 22°009'05 0°m 4°m14'09	0°05'48 1.41180 AU 23°08'55 2°56'21 2°55'22 0.69070 AU 21°00'22 1.43219 AU -1°34'44
max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	15798 May 05 10:49 15798 May 09 12:37 15798 May 16 00:01 15798 May 24 10:11 15798 Jun 15 15:24 15798 Jun 16 22:47 15798 Jun 21 03:08 15798 Jun 26 03:57 15798 Jun 04 23:24 15798 Jul 06 00:42 15798 Jul 06 00:12 15798 Jul 06 00:12 15798 Jul 10 6:30:7 15798 Jul 11 05:16 15798 Jul 12 319:32 15798 Jul 25 18:44 15798 Jul 29 12:38 15798 Aug 20 01:10 15798 Aug 28 03:07 15798 Sep 02 05:31 15798 Sep 10 01:50 15798 Sep 10 01:50 15798 Sep 10 06:36 15798 Sep 17 04:15 15798 Sep 20 07:15	0°II 6°II44'47 17°II06'17 0°© 0°\U 1°\U 1°\U 1°\U 1°\U 1'\U 1'\U 1'\U 1'\U 1'\U 1'\U 1'\U 1'	1.43218 AU 21°48'34 3°07'22 3°06'35 0.69059 AU 22°23'07 1.41116 AU -0°59'39	minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	15799 Apr 14 08:12 15799 Apr 14 01:14 15799 Apr 14 15:10 15799 Apr 21 22:40 15799 Apr 26 13:24 15799 Apr 27 21:32 15799 May 18 00:34 15799 May 30 14:20 15799 Jun 08 00:05 15799 Jun 10 00:12 15799 Jun 15 02:42 15799 Jun 20 09:15 15799 Jun 20 00:01 15799 Jun 20 00:01 15799 Jun 25 15:43 15799 Jun 30 00:19 15799 Jun 30 00:19 15799 Jul 08 11:44 15799 Jul 10 16:46 15799 Jul 24 04:27 15799 Aug 17 21:34 15799 Aug 18 10:11 15799 Aug 18 11:11 15799 Aug 22 13:11 15799 Aug 22 13:11 15799 Aug 30 17:08	6°847'54 6°816'18 7°819'25 20°808'40 27°849'34 0°II 0°9 15°914'48 21°904'28 21°921'54 12°947'10 12°951'50 13°923'47 6°938'31 4°953'04 9°945'12 12°906'01 0°0 22°009'05 0°m 4°m14'09 15°m52'50 16°m524'14 0°9	0°05'48 1.41180 AU 23°08'55 2°56'21 2°55'22 0.69070 AU 21°00'22 1.43219 AU -1°34'44
max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise	15798 May 05 10:49 15798 May 09 12:37 15798 May 16 00:01 15798 May 24 10:11 15798 Jun 15 15:24 15798 Jun 16 22:47 15798 Jun 21 03:08 15798 Jun 26 03:57 15798 Jun 06 03:57 15798 Jul 06 00:42 15798 Jul 06 00:42 15798 Jul 10 06:12 15798 Jul 11 05:16 15798 Jul 12 319:32 15798 Jul 23 19:32 15798 Jul 25 18:44 15798 Jul 25 18:44 15798 Jul 29 12:38 15798 Aug 20 01:10 15798 Aug 20 01:10 15798 Sep 02 05:31 15798 Sep 10 01:50 15798 Sep 10 01:50 15798 Sep 10 06:36 15798 Sep 10 06:36 15798 Sep 20 07:15 15798 Sep 20 07:15	0°II 6°II44'47 17°II06'17 0°I 0°I 0°I 1°I21'14 4°I54'05 6°I43'46 4°I48'46 30°I 28°I33'58 28°I33'58 28°I33'58 22°I15'57 20°I1'30 24°I2'27 25°I53'49 0°I 12°I43'00 21°I407'23 0°I 17°I41'54 23°I32'46 0°IL	1.43218 AU 21°48'34 3°07'22 3°06'35 0.69059 AU 22°23'07 1.41116 AU -0°59'39 0°58'56	minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	15799 Apr 14 08:12 15799 Apr 14 01:14 15799 Apr 14 15:10 15799 Apr 21 22:40 15799 Apr 26 13:24 15799 Apr 27 21:32 15799 May 18 00:34 15799 May 30 14:20 15799 Jun 08 00:05 15799 Jun 10 00:12 15799 Jun 15 02:42 15799 Jun 20 00:01 15799 Jun 20 00:01 15799 Jun 20 00:01 15799 Jun 25 15:43 15799 Jun 30 00:19 15799 Jun 30 00:19 15799 Jul 08 11:44 15799 Jul 10 16:46 15799 Jul 24 04:27 15799 Aug 12 20:59 15799 Aug 12 12:11 15799 Aug 22 13:11 15799 Aug 20 20:37 15799 Aug 30 17:08 15799 Sep 03 08:27	6°847'54 6°816'18 7°819'25 20°808'40 27°849'34 0°11 0°5 15°514'48 21°504'28 21°521'54 19°51'50 13°523'47 6°538'31 4°553'04 9°545'12 12°506'01 0°0 22°009'05 0°m 4°m14'09 15°m52'50 16°m24'14 0°1 6°527'37	0°05'48 1.41180 AU 23°08'55 2°56'21 2°55'22 0.69070 AU 21°00'22 1.43219 AU -1°34'44
max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise evening max el	15798 May 05 10:49 15798 May 09 12:37 15798 May 16 00:01 15798 May 24 10:11 15798 Jun 15 15:24 15798 Jun 16 22:47 15798 Jun 21 03:08 15798 Jun 26 03:57 15798 Jun 06 03:57 15798 Jul 06 00:42 15798 Jul 06 00:42 15798 Jul 10 06:12 15798 Jul 11 05:16 15798 Jul 12 319:32 15798 Jul 23 19:32 15798 Jul 25 18:44 15798 Jul 25 18:44 15798 Jul 29 12:38 15798 Aug 20 01:10 15798 Aug 20 01:10 15798 Aug 28 03:07 15798 Sep 02 05:31 15798 Sep 07 09:49 15798 Sep 10 01:50 15798 Sep 10 06:36 15798 Sep 10 06:36 15798 Sep 20 07:15 15798 Sep 20 07:15 15798 Sep 23 18:25 15798 Oct 06 05:02	0°II 6°II44'47 17°II06'17 0°I 0°I 1°I21'14 4°I54'05 6°I43'46 4°I48'46 30°I 28°I33'58 28°I33'58 28°I33'58 28°I3'45 22°I5'57 20°I1'30 24°I02'27 25°I5'3'49 0°I 10°II 12°II43'00 21°II07'23 0°I 12°II43'00 21°II07'23 0°I 12°II43'00 21°II43'00	1.43218 AU 21°48'34 3°07'22 3°06'35 0.69059 AU 22°23'07 1.41116 AU -0°59'39 0°58'56	minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	15799 Apr 14 08:12 15799 Apr 14 01:14 15799 Apr 14 15:10 15799 Apr 21 22:40 15799 Apr 26 13:24 15799 Apr 27 21:32 15799 May 18 00:34 15799 May 30 14:20 15799 Jun 08 00:05 15799 Jun 10 00:12 15799 Jun 20 10:36 15799 Jun 20 00:01 15799 Jun 20 00:01 15799 Jun 20 00:01 15799 Jun 20 00:19 15799 Jun 30 00:19 15799 Jun 30 00:19 15799 Jul 08 11:44 15799 Jul 10 16:46 15799 Jul 24 04:27 15799 Aug 12 20:59 15799 Aug 12 12:11 15799 Aug 22 13:11 15799 Aug 22 20:37 15799 Aug 30 17:08 15799 Sep 03 08:27 15799 Sep 04 00:50	6°847'54 6°816'18 7°819'25 20°808'40 27°849'34 0°11 0°5 15°514'48 21°504'28 21°521'54 19°51'50 13°52'3'47 6°538'31 4°553'04 9°545'12 12°506'01 0°1 22°109'05 0°10 4°1014'09 15°105'50'50 16°105'50'50 16°105'50'50 16°105'50'50 16°105'50'50 16°105'50'50 16°105'50'50 16°105'50'50 16°105'50'50 16°105'50'50 16°105'50'50 16°105'50'50 16°105'50'50 16°105'50'50 16°105'50'50	0°05'48 1.41180 AU 23°08'55 2°56'21 2°55'22 0.69070 AU 21°00'22 1.43219 AU -1°34'44
max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise evening rise evening max el retrograde	15798 May 05 10:49 15798 May 09 12:37 15798 May 16 00:01 15798 May 24 10:11 15798 Jun 15 15:24 15798 Jun 16 22:47 15798 Jun 21 03:08 15798 Jun 26 03:57 15798 Jun 06 03:57 15798 Jul 06 00:42 15798 Jul 06 00:12 15798 Jul 10 06:12 15798 Jul 11 05:16 15798 Jul 11 05:16 15798 Jul 23 19:32 15798 Jul 23 19:32 15798 Jul 25 18:44 15798 Jul 25 18:44 15798 Jul 29 12:38 15798 Aug 20 01:10 15798 Aug 20 01:10 15798 Aug 20 01:10 15798 Sep 02 05:31 15798 Sep 07 09:49 15798 Sep 10 01:50 15798 Sep 10 01:50 15798 Sep 10 06:36 15798 Sep 10 06:36 15798 Sep 20 07:15 15798 Sep 23 18:25 15798 Oct 06 05:02 15798 Oct 06 05:02 15798 Oct 06 05:02	0° II 6° II 44'47 17° II 06'17 0° II 06'18 28° II 06'18 0° II 06'18 0° II 06'18 0° II 06'18 10° II 06'1	1.43218 AU 21°48'34 3°07'22 3°06'35 0.69059 AU 22°23'07 1.41116 AU -0°59'39 0°58'56	minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	15799 Apr 14 08:12 15799 Apr 14 01:14 15799 Apr 14 15:10 15799 Apr 21 22:40 15799 Apr 26 13:24 15799 Apr 27 21:32 15799 May 18 00:34 15799 May 30 14:20 15799 Jun 08 00:05 15799 Jun 10 00:12 15799 Jun 20 10:36 15799 Jun 20 09:15 15799 Jun 20 00:01 15799 Jun 20 00:01 15799 Jun 20 00:19 15799 Jun 30 00:19 15799 Jul 08 11:44 15799 Jul 08 11:44 15799 Jul 10 16:46 15799 Jul 24 04:27 15799 Aug 12 20:59 15799 Aug 12 12:11 15799 Aug 22 13:11 15799 Aug 30 17:08 15799 Sep 03 08:27 15799 Sep 04 00:50 15799 Sep 17 20:52	6°847'54 6°816'18 7°819'25 20°808'40 27°849'34 0°11 0°5 15°514'48 21°504'28 21°521'54 12°504'710 12°551'50 13°523'47 6°538'31 4°553'04 9°545'12 12°506'01 0°10 22°109'05 0°10 4°1014'09 15°105'50'50 16°105'50'50 16°105'50'50 16°105'50'50 16°105'50'50 16°105'50'50 16°105'50'50 16°105'50'50 16°105'50'50 16°105'50'50 16°105'50'50 16°105'50'50 16°105'50'50	0°05'48 1.41180 AU 23°08'55 2°56'21 2°55'22 0.69070 AU 21°00'22 1.43219 AU -1°34'44 1°34'10

evening set	15799 Sep 28 19:02	5° M L04'11		retrograde	15800 Sep 09 17:04	18° ≏ 46'29	
inferior conj	15799 Oct 05 15:29	0°ML04'27	0°17'19	evening set	15800 Sep 12 10:05	18° ≏ 08'25	
minimum elong	15799 Oct 05 16:02	0°ML03'08	0°17'27	inferior conj	15800 Sep 18 16:06	12° ♀ 50'45	1°24'45
	15799 Oct 05 17:21	30° RΩ		minimum elong	15800 Sep 18 18:09	12° - 45′10	1°24'10
desc. node	15799 Oct 06 13:41	29° ₽ 11'03		min. Earth dist.	15800 Sep 21 08:56	9° £ 56'27	0.63084 AU
min. Earth dist.	15799 Oct 08 18:21	27° £ 06'38	0.60824 AU	desc. node	15800 Sep 23 11:05	7° £ 54'33	0.0300.110
morning rise	15799 Oct 10 10:21 15799 Oct 12 10:00	24° ₽ 12'05	0.00021710	morning rise	15800 Sep 25 11:03 15800 Sep 25 00:03	6° ₽ 38'39	
direct	15799 Oct 12 10:00 15799 Oct 19 01:37	22° ⊆ 00'19		direct	15800 Oct 01 16:02	ა _ 3035 4° _ 09'55	
direct	15799 Nov 02 09:46	0°M		morning max el	15800 Oct 15 15:17	12° ≏ 08'55	27°50'49
morning max el	15799 Nov 02 07:11	29° ₽ 53'37	27°57'00	morning max er	15800 Oct 29 20:52	0°M	27 30 19
morning max er	15799 Nov 24 00:14	0° ⊼	27 37 00		15800 Nov 16 10:54	0° ∡ 7	
asc. node	15799 Dec 01 01:55	13° ∡ 104'02		asc. node	15800 Nov 17 22:49	2° ∡ 756'54	
morning set	15799 Dec 05 07:38	21° x 39'06		morning set	15800 Nov 17 22:49 15800 Nov 19 03:58	5°×723'10	
morning set	15799 Dec 09 05:19	21 メ 3900		max. Earth dist.	15800 Nov 24 05:07	15° ∡ 55'42	1.31972 AU
may Earth dist			1 21211 ATT	max. Earth dist.	13600 NOV 24 03.07	13 8 33 42	1.31972 AU
max. Earth dist.	15799 Dec 11 03:40	4 614 33	1.31211 AU		15000 N 26 20-10	219.722012	1014!10
	15700 D 12 12-11	70=715125	1920114	superior conj	15800 Nov 26 20:18	21° 🗷 38'13	1°14'19
superior conj	15799 Dec 12 12:11	7°る15'25		minimum elong	15800 Nov 26 18:02	21° x ⁷ 25'49	1°14'48
minimum elong	15799 Dec 12 10:27		1°28'54		15800 Nov 30 15:36	0°る	
evening rise	15799 Dec 19 04:45	22° る 03'37		evening rise	15800 Dec 03 15:27	6° ප 31'56	
	15799 Dec 22 23:08	0° ≈			15800 Dec 15 18:29	0° ≈	
desc. node	15800 Jan 02 12:08	19° ≈ 13'14		desc. node	15800 Dec 20 09:02	7° ≈ 01'01	
	15800 Jan 10 04:07	0° ∀		evening max el	15800 Dec 27 17:55	15° ≈ 43'30	23°51'05
evening max el	15800 Jan 15 07:02	5° ¥ 34'15	25°28'57	retrograde	15801 Jan 10 05:46	22° ≈ 24'54	
retrograde	15800 Jan 29 04:30	12°) 33′42		evening set	15801 Jan 15 00:10	21° ≈ 35'40	
evening set	15800 Feb 04 00:09	11° ∺ 16′25		min. Earth dist.	15801 Jan 21 05:20	18° ≈ 34'45	0.55285 AU
min. Earth dist.	15800 Feb 08 19:45		0.56853 AU	inferior conj	15801 Jan 23 00:43	17° ≈ 30′23	-5°40'34
inferior conj	15800 Feb 11 14:44	6°) 43′16	-4°33'13	minimum elong	15801 Jan 23 07:31	17° ≈ 20'17	5°38'58
minimum elong	15800 Feb 12 00:04	6° ∺ 27'36	4°30'11	morning rise	15801 Jan 31 16:30	13° ≈ 34'39	
morning rise	15800 Feb 20 02:48	2° ∺ 29'33		direct	15801 Feb 03 04:47	13° ≈ 18'48	
direct	15800 Feb 22 03:48	2° ₩ 17'07		asc. node	15801 Feb 13 21:16	18° ≈ 29'10	
asc. node	15800 Feb 26 23:53	3° ₩ 31'31		morning max el	15801 Feb 13 21:15	18° ≈ 29'07	20°12'18
morning max el	15800 Mar 03 07:07	6°) 45′10	19°03'12		15801 Feb 22 13:20	0° ∀	
	15800 Mar 18 01:48	0 ° Υ		morning set	15801 Mar 04 01:45	18° ₩ 01'40	
		2000200				0.000	
morning set	15800 Mar 19 19:52	3° Y 26′20			15801 Mar 09 21:48	0 ° $\mathbf{\gamma}$	
morning set	15800 Mar 19 19:52	3°°¥′26′20			15801 Mar 09 21:48	00.4,	
superior conj	15800 Mar 19 19:52 15800 Mar 28 06:37	3°γ26'20 19° Υ 59'35	0°27'24	superior conj	15801 Mar 09 21:48 15801 Mar 11 18:13	3° Υ 44'33	0°54'16
				superior conj minimum elong			0°54'16 0°53'55
superior conj	15800 Mar 28 06:37	19° Y ′59'35		1 3	15801 Mar 11 18:13	3° Y '44'33	
superior conj minimum elong	15800 Mar 28 06:37 15800 Mar 28 08:17	19° Υ '59'35 20° Υ '07'32		minimum elong	15801 Mar 11 18:13 15801 Mar 11 20:43	3° Υ 44'33 3° Υ 57'09	0°53'55
superior conj minimum elong	15800 Mar 28 06:37 15800 Mar 28 08:17 15800 Mar 31 13:34	19°Υ59'35 20°Υ07'32 26°Υ11'32 0°႘		minimum elong max. Earth dist.	15801 Mar 11 18:13 15801 Mar 11 20:43 15801 Mar 17 11:58	3° Y 44'33 3° Y 57'09 14° Y 57'18	0°53'55
superior conj minimum elong desc. node	15800 Mar 28 06:37 15800 Mar 28 08:17 15800 Mar 31 13:34 15800 Apr 02 15:22	19°Υ59'35 20°Υ07'32 26°Υ11'32 0°8	0°26'54	minimum elong max. Earth dist. desc. node	15801 Mar 11 18:13 15801 Mar 11 20:43 15801 Mar 17 11:58 15801 Mar 18 10:12	3°Y44'33 3°Y57'09 14°Y57'18 16°Y42'00	0°53'55
superior conj minimum elong desc. node max. Earth dist.	15800 Mar 28 06:37 15800 Mar 28 08:17 15800 Mar 31 13:34 15800 Apr 02 15:22 15800 Apr 04 05:04 15800 Apr 08 00:12	19°Y59'35 20°Y07'32 26°Y11'32 0°8 2°849'45	0°26'54	minimum elong max. Earth dist. desc. node	15801 Mar 11 18:13 15801 Mar 11 20:43 15801 Mar 17 11:58 15801 Mar 18 10:12 15801 Mar 21 06:17	3°Y44'33 3°Y57'09 14°Y57'18 16°Y42'00 21°Y55'32	0°53'55
superior conj minimum elong desc. node max. Earth dist.	15800 Mar 28 06:37 15800 Mar 28 08:17 15800 Mar 31 13:34 15800 Apr 02 15:22 15800 Apr 04 05:04 15800 Apr 08 00:12 15800 Apr 20 18:04	19°Υ59'35 20°Υ07'32 26°Υ11'32 0°႘ 2°႘49'45 9°႘28'46	0°26'54 1.38913 AU	minimum elong max. Earth dist. desc. node	15801 Mar 11 18:13 15801 Mar 11 20:43 15801 Mar 17 11:58 15801 Mar 18 10:12 15801 Mar 21 06:17 15801 Mar 25 20:20 15801 Apr 14 14:14	3°Y44'33 3°Y57'09 14°Y57'18 16°Y42'00 21°Y55'32 0°8	0°53'55
superior conj minimum elong desc. node max. Earth dist. evening rise	15800 Mar 28 06:37 15800 Mar 28 08:17 15800 Mar 31 13:34 15800 Apr 02 15:22 15800 Apr 04 05:04 15800 Apr 08 00:12	19°Y59'35 20°Y07'32 26°Y11'32 0°B 2°B49'45 9°B28'46 0°II	0°26'54 1.38913 AU	minimum elong max. Earth dist. desc. node evening rise	15801 Mar 11 18:13 15801 Mar 11 20:43 15801 Mar 17 11:58 15801 Mar 18 10:12 15801 Mar 21 06:17 15801 Mar 25 20:20 15801 Apr 14 14:14 15801 Apr 25 17:44	3°Υ44'33 3°Υ57'09 14°Υ57'18 16°Υ42'00 21°Υ55'32 0°႘ 0°Π	0°53'55 1.36660 AU
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el	15800 Mar 28 06:37 15800 Mar 28 08:17 15800 Mar 31 13:34 15800 Apr 02 15:22 15800 Apr 04 05:04 15800 Apr 08 00:12 15800 Apr 20 18:04 15800 May 13 04:06 15800 May 14 00:40	19°Y59'35 20°Y07'32 26°Y11'32 0°℧ 2°℧49'45 9°℧28'46 0°Ⅲ 29°Ⅲ10'11	0°26'54 1.38913 AU	minimum elong max. Earth dist. desc. node evening rise	15801 Mar 11 18:13 15801 Mar 11 20:43 15801 Mar 17 11:58 15801 Mar 18 10:12 15801 Mar 21 06:17 15801 Mar 25 20:20 15801 Apr 14 14:14 15801 Apr 25 17:44 15801 May 08 05:25	3°Υ44'33 3°Υ57'09 14°Υ57'18 16°Υ42'00 21°Υ55'32 0°႘ 0°Ⅱ 13°Ⅲ04'01 20°Ⅲ15'43	0°53'55 1.36660 AU
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde	15800 Mar 28 06:37 15800 Mar 28 08:17 15800 Mar 31 13:34 15800 Apr 02 15:22 15800 Apr 04 05:04 15800 Apr 08 00:12 15800 Apr 20 18:04 15800 May 13 04:06 15800 May 14 00:40 15800 May 24 17:07	19°Y59'35 20°Y07'32 26°Y11'32 0°℧ 2°℧49'45 9°℧28'46 0°ℿ 29°ℿ10'11 0°郖 5°郖55'05	0°26'54 1.38913 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node	15801 Mar 11 18:13 15801 Mar 11 20:43 15801 Mar 17 11:58 15801 Mar 18 10:12 15801 Mar 21 06:17 15801 Mar 25 20:20 15801 Apr 14 14:14 15801 Apr 25 17:44 15801 May 08 05:25 15801 May 12 18:20	3°Y44'33 3°Y57'09 14°Y57'18 16°Y42'00 21°Y55'32 0°B 0°I 13°I04'01 20°II5'43 18°I52'18	0°53'55 1.36660 AU
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node	15800 Mar 28 06:37 15800 Mar 28 08:17 15800 Mar 31 13:34 15800 Apr 02 15:22 15800 Apr 04 05:04 15800 Apr 08 00:12 15800 Apr 20 18:04 15800 May 13 04:06 15800 May 14 00:40 15800 May 24 17:07 15800 May 25 21:10	19°Y59'35 20°Y07'32 26°Y11'32 0°8 2°849'45 9°828'46 0°II 29°II10'11 0°9 5°955'05 5°949'17	0°26'54 1.38913 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set	15801 Mar 11 18:13 15801 Mar 11 20:43 15801 Mar 17 11:58 15801 Mar 18 10:12 15801 Mar 21 06:17 15801 Mar 25 20:20 15801 Apr 14 14:14 15801 Apr 25 17:44 15801 May 08 05:25 15801 May 12 18:20 15801 May 14 06:25	3°Y44'33 3°Y57'09 14°Y57'18 16°Y42'00 21°Y55'32 0°₩ 0°Ⅲ 13°Ⅲ04'01 20°Ⅲ15'43 18°Ⅲ52'18 17°Ⅲ45'56	0°53'55 1.36660 AU 25°44'32
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde	15800 Mar 28 06:37 15800 Mar 28 08:17 15800 Mar 31 13:34 15800 Apr 02 15:22 15800 Apr 04 05:04 15800 Apr 08 00:12 15800 Apr 20 18:04 15800 May 13 04:06 15800 May 14 00:40 15800 May 24 17:07	19°Y59'35 20°Y07'32 26°Y11'32 0°℧ 2°℧49'45 9°℧28'46 0°ℿ 29°ℿ10'11 0°郖 5°郖55'05	0°26'54 1.38913 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node	15801 Mar 11 18:13 15801 Mar 11 20:43 15801 Mar 17 11:58 15801 Mar 18 10:12 15801 Mar 21 06:17 15801 Mar 25 20:20 15801 Apr 14 14:14 15801 Apr 25 17:44 15801 May 08 05:25 15801 May 12 18:20	3°Y44'33 3°Y57'09 14°Y57'18 16°Y42'00 21°Y55'32 0°B 0°I 13°I04'01 20°II5'43 18°I52'18	0°53'55 1.36660 AU
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superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set	15800 Mar 28 06:37 15800 Mar 28 08:17 15800 Mar 31 13:34 15800 Apr 02 15:22 15800 Apr 04 05:04 15800 Apr 08 00:12 15800 Apr 20 18:04 15800 May 13 04:06 15800 May 14 00:40 15800 May 25 21:10 15800 May 25 21:10 15800 May 30 07:06 15800 Jun 02 13:41 15800 Jun 03 19:42 15800 Jun 04 19:09 15800 Jun 04 17:12 15800 Jun 10 03:27 15800 Jun 10 03:27 15800 Jun 21 11:24 15800 Jun 21 11:24 15800 Jun 26 20:23 15800 Jun 27 13:56 15800 Jul 17 09:50 15800 Jul 18 01:59	19°Y59'35 20°Y07'32 26°Y11'32 0°8 2°849'45 9°828'46 0°II 29°II10'11 0°9 5°955'05 5°949'17 3°933'11 30°RII 28°II22'08 27°II03'25 27°II09'59 21°II03'43 19°II38'00 23°II47'18 0°9 0°9557'05 0°\U00001	0°26'54 1.38913 AU 24°29'55 0.68599 AU 2°34'53 2°33'40 19°49'20	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	15801 Mar 11 18:13 15801 Mar 17 11:58 15801 Mar 18 10:12 15801 Mar 21 06:17 15801 Mar 25 20:20 15801 Apr 14 14:14 15801 Apr 25 17:44 15801 May 08 05:25 15801 May 12 18:20 15801 May 14 06:25 15801 May 18 11:56 15801 May 20 00:21 15801 May 20 00:21 15801 May 20 00:21 15801 May 25 14:30 15801 May 29 00:24 15801 Jun 04 18:20 15801 Jun 14 11:01 15801 Jun 18 05:36 15801 Jun 20 20:26 15801 Jun 27 11:27	3°Y44'33 3°Y57'09 14°Y57'18 16°Y42'00 21°Y55'32 0°8 0°II 13°I04'01 20°II5'43 18°I52'18 17°II45'56 13°II1'20 11°II5'31 11°I22'28 5°I26'08 4°I19'30 7°I57'48 20°I22'26 26°I00'22 0°G 10°G13'52	0°53'55 1.36660 AU 25°44'32 0.67659 AU 2°02'28 2°01'06
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	15800 Mar 28 06:37 15800 Mar 28 08:17 15800 Mar 31 13:34 15800 Apr 02 15:22 15800 Apr 04 05:04 15800 Apr 08 00:12 15800 Apr 20 18:04 15800 May 13 04:06 15800 May 14 00:40 15800 May 24 17:07 15800 May 25 21:10 15800 May 30 07:06 15800 Jun 02 13:41 15800 Jun 03 19:42 15800 Jun 04 19:09 15800 Jun 04 17:12 15800 Jun 04 17:12 15800 Jun 10 03:27 15800 Jun 14 00:19 15800 Jun 26 20:23 15800 Jun 27 13:56 15800 Jul 17 09:50	19°Y59'35 20°Y07'32 26°Y11'32 0°႘ 2°႘49'45 9°႘28'46 0°Ⅲ 29°Ⅲ10'11 0°% 5°%55'05 5°%49'17 3°%33'11 30°RⅢ 28°Ⅲ22'08 27°Ⅲ03'25 27°Ⅲ09'59 21°Ⅲ03'43 19°Ⅲ38'00 23°Ⅲ47'18 0°% 0°%57'05 0°Ω	0°26'54 1.38913 AU 24°29'55 0.68599 AU 2°34'53 2°33'40	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.	15801 Mar 11 18:13 15801 Mar 11 20:43 15801 Mar 17 11:58 15801 Mar 18 10:12 15801 Mar 21 06:17 15801 Mar 25 20:20 15801 Apr 14 14:14 15801 Apr 25 17:44 15801 May 08 05:25 15801 May 12 18:20 15801 May 14 06:25 15801 May 18 11:56 15801 May 20 00:21 15801 May 19 22:11 15801 May 25 14:30 15801 May 29 00:24 15801 Jun 04 18:20 15801 Jun 04 18:20 15801 Jun 14 11:01 15801 Jun 18 05:36 15801 Jun 27 11:27 15801 Jul 10 04:46 15801 Jul 11 19:34	3°Y44'33 3°Y57'09 14°Y57'18 16°Y42'00 21°Y55'32 0°℧ 0°П 13°П04'01 20°П15'43 18°П52'18 17°П45'56 13°П11'20 11°П15'31 11°П22'28 5°П26'08 4°П19'30 7°П57'48 20°П22'26 26°П00'22 0°© 10°©13'52 0°Ω 2°Ω31'28	0°53'55 1.36660 AU 25°44'32 0.67659 AU 2°02'28 2°01'06 18°53'23 -0.8m
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	15800 Mar 28 06:37 15800 Mar 28 08:17 15800 Mar 31 13:34 15800 Apr 02 15:22 15800 Apr 04 05:04 15800 Apr 08 00:12 15800 Apr 20 18:04 15800 May 13 04:06 15800 May 14 00:40 15800 May 24 17:07 15800 May 25 21:10 15800 May 30 07:06 15800 Jun 02 13:41 15800 Jun 03 19:42 15800 Jun 04 19:09 15800 Jun 04 17:12 15800 Jun 10 03:27 15800 Jun 10 03:27 15800 Jun 21 11:24 15800 Jun 26 20:23 15800 Jun 27 13:56 15800 Jul 17 09:50 15800 Jul 18 01:59 15800 Jul 29 01:17	19°Y59'35 20°Y07'32 26°Y11'32 0°8 2°849'45 9°828'46 0°II 29°II10'11 0°\$ 5°\$55'05 5°\$49'17 3°\$33'11 30°RII 28°II22'08 27°II03'43 19°II38'00 23°II47'18 0°\$ 0°\$57'05 0°\$ 1°\$\O01'55 18°\$\O06'41	0°26'54 1.38913 AU 24°29'55 0.68599 AU 2°34'53 2°33'40 19°49'20 1.44829 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist. superior conj	15801 Mar 11 18:13 15801 Mar 17 11:58 15801 Mar 18 10:12 15801 Mar 21 06:17 15801 Mar 25 20:20 15801 Apr 14 14:14 15801 Apr 25 17:44 15801 May 08 05:25 15801 May 12 18:20 15801 May 14 06:25 15801 May 14 06:25 15801 May 19 22:11 15801 May 20 00:21 15801 May 20 00:21 15801 May 20 00:21 15801 May 20 00:21 15801 May 29 00:24 15801 May 29 00:24 15801 Jun 04 18:20 15801 Jun 14 11:01 15801 Jun 18 05:36 15801 Jun 20 20:26 15801 Jun 27 11:27 15801 Jul 10 04:46 15801 Jul 11 19:34	3°Y44'33 3°Y57'09 14°Y57'18 16°Y42'00 21°Y55'32 0°႘ 0°Ⅱ 13°Ⅲ04'01 20°Ⅲ15'43 18°Ⅲ52'18 17°Ⅲ45'56 13°Ⅲ11'20 11°Ⅲ15'31 11°Ⅲ22'28 5°Ⅲ26'08 4°Ⅲ19'30 7°Ⅲ57'48 20°Ⅲ22'26 26°Ⅲ00'22 0°಄ 10°಄13'52 0°Ω 2°Ω31'28	0°53'55 1.36660 AU 25°44'32 0.67659 AU 2°02'28 2°01'06 18°53'23 -0.8m
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	15800 Mar 28 06:37 15800 Mar 28 08:17 15800 Mar 31 13:34 15800 Apr 02 15:22 15800 Apr 04 05:04 15800 Apr 08 00:12 15800 Apr 20 18:04 15800 May 13 04:06 15800 May 14 00:40 15800 May 24 17:07 15800 May 25 21:10 15800 May 30 07:06 15800 Jun 02 13:41 15800 Jun 03 19:42 15800 Jun 04 17:12 15800 Jun 04 17:12 15800 Jun 10 03:27 15800 Jun 10 03:27 15800 Jun 21 11:24 15800 Jun 26 20:23 15800 Jun 27 13:56 15800 Jul 18 01:59 15800 Jul 29 01:17	19°Y59'35 20°Y07'32 26°Y11'32 0°8 2°849'45 9°828'46 0°II 29°II10'11 0°\$ 5°\$55'05 5°\$49'17 3°\$33'11 30°RII 28°II22'08 27°II03'43 19°II38'00 23°II47'18 0°\$ 0°\$57'05 0°\$ 1°\$\O01'55 18°\O06'41 26°\O04'46	0°26'54 1.38913 AU 24°29'55 0.68599 AU 2°34'53 2°33'40 19°49'20 1.44829 AU -2°02'02	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	15801 Mar 11 18:13 15801 Mar 17 11:58 15801 Mar 18 10:12 15801 Mar 21 06:17 15801 Mar 25 20:20 15801 Apr 14 14:14 15801 Apr 25 17:44 15801 May 08 05:25 15801 May 12 18:20 15801 May 14 06:25 15801 May 14 06:25 15801 May 19 22:11 15801 May 20 00:21 15801 May 20 00:21 15801 May 20 00:21 15801 May 20 00:24 15801 May 29 00:24 15801 Jun 04 18:20 15801 Jun 04 18:20 15801 Jun 14 11:01 15801 Jun 18 05:36 15801 Jun 20 20:26 15801 Jun 27 11:27 15801 Jul 10 04:46 15801 Jul 11 19:34	3°Y44'33 3°Y57'09 14°Y57'18 16°Y42'00 21°Y55'32 0°℧ 0°П 13°П04'01 20°П15'43 18°П52'18 17°П45'56 13°П11'20 11°П15'31 11°П22'28 5°П26'08 4°П19'30 7°П57'48 20°П22'26 26°П00'22 0°© 10°©13'52 0°Ω 2°Ω31'28 5°Ω29'54 5°Ω33'52	0°53'55 1.36660 AU 25°44'32 0.67659 AU 2°02'28 2°01'06 18°53'23 -0.8m
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superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	15800 Mar 28 06:37 15800 Mar 28 08:17 15800 Mar 31 13:34 15800 Apr 02 15:22 15800 Apr 04 05:04 15800 Apr 08 00:12 15800 Apr 20 18:04 15800 May 13 04:06 15800 May 14 00:40 15800 May 24 17:07 15800 May 25 21:10 15800 May 30 07:06 15800 Jun 02 13:41 15800 Jun 03 19:42 15800 Jun 04 19:09 15800 Jun 04 17:12 15800 Jun 10 03:27 15800 Jun 10 03:27 15800 Jun 10 03:27 15800 Jun 21 11:24 15800 Jun 26 20:23 15800 Jun 27 13:56 15800 Jul 17 09:50 15800 Jul 18 01:59 15800 Aug 03 01:05 15800 Aug 03 01:05 15800 Aug 03 01:05 15800 Aug 03 01:05 15800 Aug 03 11:11 15800 Aug 05 11:11	19°Y59'35 20°Y07'32 26°Y11'32 0°8 2°849'45 9°828'46 0°II 29°II10'11 0°\$ 5°\$55'05 5°\$49'17 3°\$33'11 30°RII 28°II22'08 27°II03'43 19°II38'00 23°II47'18 0°\$ 0°\$57'05 0°\$ 1°\$\O1'55 18°\$\O16'41 26°\$\O14'46 26°\$\O32'38 0°\$\P\ 18°\$\P33'16	0°26'54 1.38913 AU 24°29'55 0.68599 AU 2°34'53 2°33'40 19°49'20 1.44829 AU -2°02'02	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 evening rise asc. node	15801 Mar 11 18:13 15801 Mar 17 11:58 15801 Mar 18 10:12 15801 Mar 21 06:17 15801 Mar 25 20:20 15801 Apr 14 14:14 15801 Apr 25 17:44 15801 May 08 05:25 15801 May 12 18:20 15801 May 14 06:25 15801 May 19 22:11 15801 May 20 00:21 15801 May 20 00:21 15801 May 20 00:21 15801 May 29 00:24 15801 May 29 00:24 15801 Jun 04 18:20 15801 Jun 14 11:01 15801 Jun 18 05:36 15801 Jun 20 20:26 15801 Jun 27 11:27 15801 Jul 10 04:46 15801 Jul 11 19:34 15801 Jul 13 17:10 15801 Jul 13 17:10 15801 Jul 13 17:10 15801 Jul 28 21:48 15801 Jul 29 03:07 15801 Aug 08 18:09	3°Y44'33 3°Y57'09 14°Y57'18 16°Y42'00 21°Y55'32 0°8 0°II 13°II04'01 20°II15'43 18°II5'43 11°I20'2128 5°II26'08 4°II19'30 7°II57'48 20°II22'26 26°II00'22 0°© 10°©13'52 0°Ω 2°Ω31'28 5°Ω29'54 5°Ω33'52 29°Ω38'38 0°III	0°53'55 1.36660 AU 25°44'32 0.67659 AU 2°02'28 2°01'06 18°53'23 -0.8m 1.45773 AU -2°14'04 2°14'47
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	15800 Mar 28 06:37 15800 Mar 28 08:17 15800 Mar 31 13:34 15800 Apr 02 15:22 15800 Apr 04 05:04 15800 Apr 08 00:12 15800 Apr 20 18:04 15800 May 13 04:06 15800 May 14 00:40 15800 May 24 17:07 15800 May 25 21:10 15800 May 30 07:06 15800 Jun 02 13:41 15800 Jun 02 13:41 15800 Jun 04 19:09 15800 Jun 04 17:12 15800 Jun 04 17:12 15800 Jun 10 03:27 15800 Jun 10 03:27 15800 Jun 21 11:24 15800 Jun 26 20:23 15800 Jun 27 13:56 15800 Jun 18 01:59 15800 Jul 18 01:59 15800 Aug 03 01:05 15800 Aug 03 08:00 15800 Aug 03 08:00 15800 Aug 05 11:11 15800 Aug 16 14:56 15800 Aug 16 14:56	19°Y59'35 20°Y07'32 26°Y11'32 0°8 2°849'45 9°828'46 0°II 29°II10'11 0°\$ 5°\$55'05 5°\$49'17 3°\$33'11 30°RII 28°II22'08 27°II03'43 19°II38'00 23°II47'18 0°\$ 0°\$57'05 0°\$\$ 1°\$\O1'55 18°\$\O6'41 26°\$\O4'46 26°\$\O32'38 0°\$\D1'\$\D1'\$\D1'\$\D1'\$\D1'\$\D1'\$\D1'\$\D1'	0°26'54 1.38913 AU 24°29'55 0.68599 AU 2°34'53 2°33'40 19°49'20 1.44829 AU -2°02'02	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 evening rise	15801 Mar 11 18:13 15801 Mar 17 11:58 15801 Mar 18 10:12 15801 Mar 21 06:17 15801 Mar 25 20:20 15801 Apr 14 14:14 15801 Apr 25 17:44 15801 May 08 05:25 15801 May 12 18:20 15801 May 14 06:25 15801 May 18 11:56 15801 May 20 00:21 15801 May 20 00:21 15801 May 20 00:21 15801 May 29 00:24 15801 May 29 00:24 15801 Jun 04 18:20 15801 Jun 14 11:01 15801 Jun 18 05:36 15801 Jun 20 20:26 15801 Jun 27 11:27 15801 Jul 10 04:46 15801 Jul 11 19:34 15801 Jul 13 17:10 15801 Jul 13 17:10 15801 Jul 28 21:48 15801 Jul 29 03:07 15801 Aug 08 18:09 15801 Aug 08 18:09 15801 Aug 17 22:00	3°Y44'33 3°Y57'09 14°Y57'18 16°Y42'00 21°Y55'32 0°8 0°II 13°II04'01 20°II15'43 18°II5'43 110'II20'11'5'31 11°II22'28 5°II26'08 4°II19'30 7°II57'48 20°II22'26 26°II00'22 0°G 10°G13'52 0°R 2°R31'28 5°R29'54 5°R33'52 29°R38'38 0°III	0°53'55 1.36660 AU 25°44'32 0.67659 AU 2°02'28 2°01'06 18°53'23 -0.8m
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	15800 Mar 28 06:37 15800 Mar 28 08:17 15800 Mar 31 13:34 15800 Apr 02 15:22 15800 Apr 04 05:04 15800 Apr 08 00:12 15800 Apr 20 18:04 15800 May 13 04:06 15800 May 14 00:40 15800 May 24 17:07 15800 May 25 21:10 15800 May 30 07:06 15800 Jun 02 13:41 15800 Jun 03 19:42 15800 Jun 04 19:09 15800 Jun 04 17:12 15800 Jun 10 03:27 15800 Jun 10 03:27 15800 Jun 10 03:27 15800 Jun 21 11:24 15800 Jun 26 20:23 15800 Jun 27 13:56 15800 Jul 17 09:50 15800 Jul 18 01:59 15800 Aug 03 01:05 15800 Aug 03 01:05 15800 Aug 03 01:05 15800 Aug 03 01:05 15800 Aug 03 11:11 15800 Aug 05 11:11	19°Y59'35 20°Y07'32 26°Y11'32 0°8 2°849'45 9°828'46 0°II 29°II10'11 0°\$ 5°\$55'05 5°\$49'17 3°\$33'11 30°RII 28°II22'08 27°II03'43 19°II38'00 23°II47'18 0°\$ 0°\$57'05 0°\$ 1°\$\O1'55 18°\$\O16'41 26°\$\O14'46 26°\$\O32'38 0°\$\P\ 18°\$\P33'16	0°26'54 1.38913 AU 24°29'55 0.68599 AU 2°34'53 2°33'40 19°49'20 1.44829 AU -2°02'02 2°02'07	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 evening rise asc. node	15801 Mar 11 18:13 15801 Mar 17 11:58 15801 Mar 18 10:12 15801 Mar 21 06:17 15801 Mar 25 20:20 15801 Apr 14 14:14 15801 Apr 25 17:44 15801 May 08 05:25 15801 May 12 18:20 15801 May 14 06:25 15801 May 19 22:11 15801 May 20 00:21 15801 May 20 00:21 15801 May 20 00:21 15801 May 29 00:24 15801 May 29 00:24 15801 Jun 04 18:20 15801 Jun 14 11:01 15801 Jun 18 05:36 15801 Jun 20 20:26 15801 Jun 27 11:27 15801 Jul 10 04:46 15801 Jul 11 19:34 15801 Jul 13 17:10 15801 Jul 13 17:10 15801 Jul 13 17:10 15801 Jul 28 21:48 15801 Jul 29 03:07 15801 Aug 08 18:09	3°Y44'33 3°Y57'09 14°Y57'18 16°Y42'00 21°Y55'32 0°8 0°II 13°II04'01 20°II15'43 18°II5'43 11°I20'2128 5°II26'08 4°II19'30 7°II57'48 20°II22'26 26°II00'22 0°© 10°©13'52 0°Ω 2°Ω31'28 5°Ω29'54 5°Ω33'52 29°Ω38'38 0°III	0°53'55 1.36660 AU 25°44'32 0.67659 AU 2°02'28 2°01'06 18°53'23 -0.8m 1.45773 AU -2°14'04 2°14'47

ovening set	15801 Aug 27 10:18	1° ≏ 40'07			15802 Jul 22 09:15	0° m	
evening set	•			asa mada		-•	
	15801 Aug 29 15:38	30°R, M)	2012111	asc. node	15802 Jul 26 14:52	6° Mp 02'37	10004104
inferior conj	15801 Sep 02 05:19	26° Mp 06'41	2°13'11	evening max el	15802 Aug 01 08:30	12° m 56'33	19°04'04
minimum elong	15801 Sep 02 07:38	25° m 59'44	2°12'25	retrograde	15802 Aug 08 04:36	16° Mp 42'12	
min. Earth dist.	15801 Sep 04 08:56	23° m 33'10	0.65118 AU	evening set	15802 Aug 11 16:08	15° m 32'03	
morning rise	15801 Sep 08 03:39	19° m 43'52		inferior conj	15802 Aug 17 03:36	9° m 44'39	2°45'07
desc. node	15801 Sep 10 08:31	18° m) 14'10		minimum elong	15802 Aug 17 05:27	9° ™ 38'42	2°44'24
direct	15801 Sep 14 14:46	17° Mp 07'06		min. Earth dist.	15802 Aug 18 17:09	7° m 44'07	0.66796 AU
morning max el	15801 Sep 28 02:13	25° Mp 00'22	27°10'52	morning rise	15802 Aug 22 18:03	3° ™ 18′08	
	15801 Oct 02 15:33	0∘ ত		desc. node	15802 Aug 28 05:57	0° Mp 43′21	
	15801 Oct 23 08:03	0° M		direct	15802 Aug 28 20:38	0° ™ 41'54	
morning set	15801 Nov 02 14:39	18° M ₊39'09		morning max el	15802 Sep 10 13:46	8° m 15'49	26°05'03
asc. node	15801 Nov 04 19:40	23°M00'20		-	15802 Sep 27 14:46	0∘ ত	
max. Earth dist.	15801 Nov 06 22:25	27°M17'05	1.33294 AU		15802 Oct 15 19:09	0° M .	
	15801 Nov 08 06:01	0° ∡ ⊓		morning set	15802 Oct 16 12:15	1°ML18'46	
		• •		max. Earth dist.	15802 Oct 20 06:05	8°M23'35	1.35132 AU
superior conj	15801 Nov 10 23:39	5° ∡ 744'52	0°54'19	asc. node	15802 Oct 20 06:05	13°ML09'18	1.55152710
minimum elong	15801 Nov 10 23:39	5° × 32'45	0°54'39	asc. node	13002 Oct 22 10.23	13 11207 10	
•		20° x 58'43	0 3439		15002 0-4 25 10-24	100 m 27154	0020120
evening rise	15801 Nov 18 02:01			superior conj	15802 Oct 25 19:34	19°M27'54	0°28'20
	15801 Nov 22 10:24	0°る		minimum elong	15802 Oct 25 18:01	19°M20'02	0°28'37
desc. node	15801 Dec 07 06:02	23° ろ 38'31			15802 Oct 30 21:27	0° ∡ ¹	
evening max el	15801 Dec 09 04:44	25° る 40'44	22°08'05	evening rise	15802 Nov 02 10:25	5° ∡ 18′05	
	15801 Dec 14 20:04	0° ≈			15802 Nov 16 00:28	0°ಕ	
retrograde	15801 Dec 21 19:03	1° ≈ 54'36		evening max el	15802 Nov 21 00:59	6° る 02'31	20°36'35
evening set	15801 Dec 25 06:27	1° ≈ 27'51		desc. node	15802 Nov 24 03:07	8° る 41'45	
	15801 Dec 29 06:19	30°₽₹		retrograde	15802 Dec 02 05:22	11° る 36'03	
inferior conj	15802 Jan 02 19:13	27° පි 36'10	-6°00'55	evening set	15802 Dec 04 14:47	11° る 21'57	
minimum elong	15802 Jan 02 17:29	27° る 38'34	6°00'05	inferior conj	15802 Dec 13 10:37	7° 号 28'20	-5°20'05
min. Earth dist.	15802 Jan 02 10:58	27°る47'42	0.54473 AU	minimum elong	15802 Dec 13 01:31	7° る 41'32	
morning rise	15802 Jan 11 05:27	23° る 48'57		min. Earth dist.	15802 Dec 14 16:28	6° ප 45'06	0.54577 AU
direct	15802 Jan 14 15:25	23° る 23'03		morning rise	15802 Dec 21 12:04	3° ට 31'22	0.0 10 / / 110
morning max el	15802 Jan 26 20:21	29° る 16'34	21°43'57	direct	15802 Dec 25 23:21	2°₹48'27	
morning max cr	15802 Jan 27 14:00	0°≈	21 4337	morning max el	15803 Jan 08 07:55	9°る20'32	23021128
1-		0 ∞ 4°≈52'25		•		9 3 2032 22° 3 22'11	23 31 26
asc. node	15802 Jan 31 18:37			asc. node	15803 Jan 18 15:54		
	15802 Feb 15 04:06	0° \			15803 Jan 23 04:48	0° ≈	
morning set	15802 Feb 16 11:41	2°) 44′50		morning set	15803 Jan 31 23:28	17°≈28'59	
					15803 Feb 06 17:55	0° ∀	
superior conj	15802 Feb 23 15:45	17° ¥ 55′03	1°14'40				
minimum elong	15802 Feb 23 18:11	18° ∺ 07'46		superior conj	15803 Feb 07 20:08	2° ∺ 22'11	
max. Earth dist.	15802 Feb 27 23:45		1.34634 AU	minimum elong	15803 Feb 07 21:55	2°) 31′46	1°28'56
	15802 Mar 01 14:10	0 ° Υ		max. Earth dist.	15803 Feb 10 18:47	8°) 40′09	1.32985 AU
evening rise	15802 Mar 04 04:16	5° Ƴ 00'47		evening rise	15803 Feb 15 14:39	18°) 35′28	
desc. node	15802 Mar 05 06:50	7° Ƴ 06′20		desc. node	15803 Feb 20 03:28	27°) 19′58	
	15802 Mar 18 15:36	$_{0\circ}$ 8			15803 Feb 21 14:12	0 ° $\mathbf{\Upsilon}$	
evening max el	15802 Apr 08 07:33	26° 8 49'23	26°45'12		15803 Mar 12 20:17	8° 0	
•	15802 Apr 11 21:22	Π°		evening max el	15803 Mar 21 20:42	10° 8 16'14	27°24'34
retrograde	15802 Apr 21 12:16	4° Ⅱ 16'22		retrograde	15803 Apr 04 12:51	17° 8 48'17	
evening set	15802 Apr 27 22:48	1° Ⅱ 43'54		evening set	15803 Apr 11 06:10	15° 8 19'40	
asc. node	15802 Apr 29 15:36	0° Ⅱ 12'35		min. Earth dist.	15803 Apr 15 01:52	11° 8 51'23	0.64501 AU
use. Houe	15802 Apr 29 20:40	30°R 8		asc. node	15803 Apr 16 12:55	10° 8 17'58	0.01201710
min Forth dist	15802 Apr 29 20.40 15802 May 01 22:38		0.66277 AU	inferior conj	15803 Apr 17 15:29	9° 8 05'58	0°20'48
min. Earth dist.	,				•	9° 8 03'38	
inferior conj	15802 May 03 24:00	25° 8 18'23	1°18'08	minimum elong	15803 Apr 17 14:54		0°20'07
minimum elong	15802 May 03 22:12	25° 8 23'44	1°16'53	morning rise	15803 Apr 24 01:45	3° 8 42'41	
morning rise	15802 May 09 22:49	19° 8 41'03		direct	15803 Apr 26 16:21	3° 8 07'41	
direct	15802 May 12 22:34	18° 8 51'37		morning max el	15803 May 03 00:12	6° 8 22'44	17°51'32
morning max el	15802 May 19 07:22	22° 8 11'59	18°13'55		15803 May 18 23:47	Π °0	
	15802 May 25 14:58	Π °0		desc. node	15803 May 19 04:54	0° Ⅱ 21′22	
desc. node	15802 Jun 01 08:01	10° Ⅱ 12'48		morning set	15803 May 20 06:18	2° Ⅱ 07'29	
morning set	15802 Jun 07 19:08	20° Ⅲ 31'17					
	15802 Jun 13 17:51	0 \circ \odot		superior conj	15803 Jun 02 21:01	24° Ⅱ 26′50	-1°40'35
				minimum elong	15803 Jun 02 12:23	23° II 52'15	1°40'31
superior conj	15802 Jun 23 02:06	14°9542'10	-2°06'10	J	15803 Jun 06 08:54	0ංම	
minimum elong	15802 Jun 22 19:43	14°9517'15		max. Earth dist.	15803 Jun 07 12:05	1°547'09	1.45418 AU
max. Earth dist.	15802 Jun 24 16:10		1.45971 AU	evening rise	15803 Jun 18 17:20	19° © 10'26	
mus. Durin dist.	15802 Jul 02 21:54	0°Ω	1.157/1110	5 (ching 1150	15803 Jun 25 20:32	0°Ω	
ovonina rica				grantast brilli			0.65
evening rise	15802 Jul 09 04:03	9° Ω 43'21	0.7m	greatest brilliancy	15803 Jul 03 12:56	11° Ω 22'13	-0.6m
greatest brilliancy	15802 Jul 20 00:59	26° Ω 29'30	-U./M	asc. node	15803 Jul 13 11:40	24° Ω 36′04	

evening max el	15803 Jul 15 13:35	26° Ω 49'46	19°57'48	evening rise	15804 May 28 05:27	28° Ⅱ 41'35	
	15803 Jul 19 12:07	0° m			15804 May 29 01:48	0 \circ \odot	
retrograde	15803 Jul 23 03:20	1°Mp06'39			15804 Jun 18 14:55	0 ° Ω	
	15803 Jul 26 13:01	30° R Ω		evening max el	15804 Jun 27 12:37	10° Ω 43′08	21°05'12
evening set	15803 Jul 27 00:58	29° Ω 38'55		asc. node	15804 Jun 29 08:32	12° Ω 25′28	
inferior conj	15803 Aug 01 08:05	23° Ω 39′07	3°03'03	retrograde	15804 Jul 06 02:18	15° Ω 40′20	
minimum elong	15803 Aug 01 09:05	23° Ω 35'43	3°02'24	evening set	15804 Jul 10 10:43	13° Ω 55'10	
min. Earth dist.	15803 Aug 02 07:41	22° Ω 19'16	0.68046 AU	inferior conj	15804 Jul 15 16:15	7° Ω 44'24	3°08'56
morning rise	15803 Aug 06 16:47	17° Ω 13'59		minimum elong	15804 Jul 15 16:18	7° Ω 44'14	3°08'14
direct	15803 Aug 12 08:38	14° Ω 45'41		min. Earth dist.	15804 Jul 16 02:22	7° Ω 09'14	0.68830 AU
desc. node	15803 Aug 15 03:19	15° Ω 15'59		morning rise	15804 Jul 20 21:36	1° Ω 24'08	
morning max el	15803 Aug 24 00:48	21° Ω 45'12	24°42'49		15804 Jul 22 20:50	30° ₹ 🥯	
	15803 Aug 31 05:20	0° Mp		direct	15804 Jul 26 01:36	29° © 09'32	
	15803 Sep 20 20:37	0∘ ত			15804 Jul 29 12:43	$0^{\circ}\Omega$	
morning set	15803 Sep 28 16:53	13° ≏ 13'33		desc. node	15804 Aug 01 00:40	1° Ω 28'26	
max. Earth dist.	15803 Oct 02 06:10	19° ≙ 34'33	1.37363 AU	morning max el	15804 Aug 05 11:56	5° Ω 21'56	23°13'48
	15803 Oct 07 19:47	0°M			15804 Aug 24 12:40	0° ™	
				morning set	15804 Sep 09 00:13	24° m 13'00	
superior conj	15803 Oct 09 04:56	2°M40'27	-0°03'06	C	15804 Sep 12 10:26	0∘ ⊽	
minimum elong	15803 Oct 09 05:07	2°M41'18	0°02'41	max. Earth dist.	15804 Sep 13 04:38	1° ≏ 18′08	1.39766 AU
behind sun begin	15803 Oct 08 22:32	2°M09'18					
behind sun end	15803 Oct 09 11:41	3°M13'22		superior conj	15804 Sep 20 23:53	15° Ω 13'15	-0°38'29
asc. node	15803 Oct 09 13:07	3°M20'20		minimum elong	15804 Sep 21 02:47	15° Ω 26'38	
evening rise	15803 Oct 17 14:22	19°M24'44		asc. node	15804 Sep 25 09:47	23° £ 29'36	0 37 31
evening rise	15803 Oct 17 14:22 15803 Oct 23 00:04	0° √		use. Houe	15804 Sep 28 19:16	0°M	
evening max el	15803 Nov 03 11:45	17° ₹ 12'20	19°25'32	evening rise	15804 Sep 30 10:59	3°M11'19	
desc. node	15803 Nov 11 00:15	21° х 46'43	19 23 32	evening max el	15804 Oct 16 11:40	29°M11'55	18°36'51
		21° x ¹ 4043		evening max er		29 IIG11 33 0° √ 1	16 30 31
retrograde	15803 Nov 13 00:58	21 x · 39 18 21° x 48'37		ratra ara da	15804 Oct 17 07:51	0 x. 3°x ⁷ 18′10	
evening set	15803 Nov 14 22:54		2052107	retrograde	15804 Oct 24 14:23		
inferior conj	15803 Nov 23 13:29	17° 🖈 41'45		evening set	15804 Oct 26 12:48	3° ₹ 04'57	
minimum elong	15803 Nov 23 04:13	17° х 56'47	3°48'14	desc. node	15804 Oct 27 21:28	2° ∡ 740'43	
min. Earth dist.	15803 Nov 26 01:22	16° ₹ 04'40	0.55596 AU		15804 Nov 01 15:59	30°RM	2005120
morning rise	15803 Dec 01 07:24	13° ∡ 16′27		inferior conj	15804 Nov 03 12:32	28°M37'55	
direct	15803 Dec 06 17:12	12° ∡ 10'17		minimum elong	15804 Nov 03 07:24	28°M47'38	2°04'56
morning max el	15803 Dec 20 16:48	19° ∡ 13′29	25°19'12	min. Earth dist.	15804 Nov 06 16:09	26°M15'50	0.57338 AU
	15803 Dec 29 18:00	0°る		morning rise	15804 Nov 10 22:41	23°M36'11	
asc. node	15804 Jan 05 13:07	10° る 42'28		direct	15804 Nov 17 01:23	22°M03'26	
	15804 Jan 15 11:10	0° ≈		morning max el	15804 Dec 01 06:55	29°M30'13	26°47'55
morning set	15804 Jan 16 11:12	2° ≈ 08'45			15804 Dec 01 19:06	0° ∡ ″	
				asc. node	15804 Dec 22 10:14	29° х 40′32	
superior conj	15804 Jan 23 04:54	16° ≈ 58'43	1°36'19		15804 Dec 22 14:25	0°ප	
minimum elong	15804 Jan 23 05:42	17° ≈ 03'11	1°36'54	morning set	15804 Dec 30 21:11	16° る 39'37	
max. Earth dist.	15804 Jan 24 20:47	20° ≈ 38′25	1.31811 AU		15805 Jan 05 22:18	0° ≈	
	15804 Jan 29 05:13	0° ∀					
evening rise	15804 Jan 30 10:26	2° 升 32′12		superior conj	15805 Jan 06 15:57	1° ≈ 38'42	1°37'55
desc. node	15804 Feb 07 00:06	17° ∺ 17'29		minimum elong	15805 Jan 06 15:42	1° ≈ 37'17	1°38'39
	15804 Feb 14 10:21	0° Y		max. Earth dist.	15805 Jan 07 03:25	2° ≈ 42'51	1.31155 AU
evening max el	15804 Mar 03 07:32	23° Y 12'30	27°35'43	evening rise	15805 Jan 13 13:06	16° ≈ 44'52	
	15804 Mar 13 08:31	0°8			15805 Jan 20 02:51	0° ∀	
retrograde	15804 Mar 17 06:07	0° 8 40'57		desc. node	15805 Jan 23 20:47	6°) 52′25	
	15804 Mar 20 23:54	30° ₹ Υ			15805 Feb 08 11:37	$0^{\circ}\Upsilon$	
evening set	15804 Mar 24 01:54	28° Ƴ 23'51		evening max el	15805 Feb 13 13:45	5° Y 26′37	27°13'20
min. Earth dist.	15804 Mar 27 20:04	25° Y 21'39	0.62425 AU	retrograde	15805 Feb 27 14:26	12° Ƴ 45'14	
inferior conj	15804 Mar 30 19:43	22° Y 30'01	-0°50'12	evening set	15805 Mar 06 07:01	10° Ƴ 47'11	
minimum elong	15804 Mar 30 21:25	22° Y 25'56	0°49'44	min. Earth dist.	15805 Mar 10 04:08	8° Y 03'03	0.60193 AU
asc. node	15804 Apr 02 10:16	20° Y ′06'48		inferior conj	15805 Mar 13 09:07	5° Υ 21'31	
morning rise	15804 Apr 06 19:54	17° Υ 23'11		minimum elong	15805 Mar 13 14:06	5°Υ11'00	
direct	15804 Apr 09 02:40	16°Υ59'12		asc. node	15805 Mar 20 07:37	0° Υ 46'57	
morning max el	15804 Apr 15 17:49	20° Υ 20'34	17°46'38	morning rise	15805 Mar 21 00:39	0° Υ 33'45	
	15804 Apr 23 00:24	0°8		direct	15805 Mar 23 01:46	0° Υ 17'07	
morning set	15804 May 01 17:25	14° 8 50'51		morning max el	15805 Mar 30 08:53	3°Υ55'50	18°00'14
desc. node	15804 May 05 01:42	20° 8 42'07		morning set	15805 Apr 14 22:35	28° Υ 24'05	
acce. node	15804 May 10 11:16	0°Π			15805 Apr 15 19:25	0°8	
	2000 : 1910y 10 11.10	ν д.		desc. node	15805 Apr 21 22:27	11° 8 10'50	
superior conj	15804 May 13 13:03	5° Ⅱ 10′29	-1°04'47	uese. Houe	15005 Apr 21 22.27	11 010 30	
minimum elong	15804 May 13 07:00	4° Π 45'12		superior conj	15805 Apr 25 04:37	16° 8 58'15	-0°26'30
max. Earth dist.	15804 May 20 04:55		1.44185 AU	minimum elong	15805 Apr 25 02:20	16° 8 48'15	
max. Darui uist.	1300+ May 20 04.33	10 11 04 24	1. 11 103 AU	minimum elong	13003 Apr 23 02.20	10 048 13	0 2040

max. Earth dist.	15805 May 02 17:47 15805 May 02 19:50	29° ႘ 51'30 0° Ⅱ	1.42399 AU	desc. node	15806 Apr 07 20:46 15806 Apr 08 19:07	0° と 1° と 43'04	
evening rise	15805 May 08 07:25 15805 May 22 04:22	8°∏54'12 0° ©		max. Earth dist. evening rise	15806 Apr 15 02:29 15806 Apr 19 05:58	12° 8 58'46 20° 8 01'27	1.40237 AU
evening max el	15805 Jun 10 06:31	24° © 36'47	22°22'18	evening rise	15806 Apr 19 05:38 15806 Apr 25 09:39	20 3 01 27	
asc. node	15805 Jun 16 05:27	29° © 16'45	22 22 10		15806 May 16 09:23	0°©	
use. noue	15805 Jun 17 23:55	0°Ω		evening max el	15806 May 23 21:09	8° © 31'19	23°43'42
retrograde	15805 Jun 19 23:48	0° Ω 18'09		asc. node	15806 Jun 03 02:28	14°952'57	
C	15805 Jun 21 21:29	30° ℝ ∽		retrograde	15806 Jun 03 18:39	14° © 54'54	
evening set	15805 Jun 24 19:39	28°916'40		evening set	15806 Jun 09 02:10	12° © 39'16	
inferior conj	15805 Jun 30 02:04	21° 9 56'35	3°03'57	inferior conj	15806 Jun 14 11:38	6°9512'12	2°48'33
minimum elong	15805 Jun 30 01:11	21° © 59'39	3°03'05	minimum elong	15806 Jun 14 09:59	6° 5 17'49	2°47'27
min. Earth dist.	15805 Jun 29 23:01	22° 5 07'14	0.69128 AU	min. Earth dist.	15806 Jun 13 19:33	7° 5 07'13	0.68933 AU
morning rise	15805 Jul 05 06:34	15° © 43'21		morning rise	15806 Jun 19 17:48	0° ട്ട 07'26	
direct	15805 Jul 09 22:17	13° © 46'32			15806 Jun 19 21:40	30°Ŗ Ⅱ	
desc. node	15805 Jul 18 21:58	18° © 57'01		direct	15806 Jun 23 21:24	28° ∏ 30′20	
morning max el	15805 Jul 19 01:50	19° © 06'39	21°46'43		15806 Jun 28 05:35	0.22 0.22	
	15805 Jul 28 04:16	0° Q		morning max el	15806 Jul 01 21:31	3°502'28	20°28'31
. ,	15805 Aug 17 15:54	0° m)		desc. node	15806 Jul 05 19:13	7° © 22'24	
morning set	15805 Aug 20 07:32	4° Mp 10'46 13° Mp 55'21	1 42061 ATT		15806 Jul 22 00:06	0°Ω 13°Ω17'52	
max. Earth dist.	15805 Aug 26 07:53	13.11/33.71	1.42061 AU	morning set max. Earth dist.	15806 Jul 30 18:16	$13^{\circ} \Omega 1752$ $27^{\circ} \Omega 25'27$	1.43977 AU
superior conj	15805 Sep 02 23:58	26° m 56'02	-1°15'02	max. Earm dist.	15806 Aug 08 18:03 15806 Aug 10 08:29	0°m)	1.439// AU
minimum elong	15805 Sep 02 25:58 15805 Sep 03 06:02	27° m) 22'30			13000 Aug 10 00.27	עוו ט	
minimum crong	15805 Sep 03 00:02 15805 Sep 04 17:56	0∘ ⊽	1 1110	superior conj	15806 Aug 15 01:23	7° m) 41'01	-1°47'43
asc. node	15805 Sep 12 06:24	13° ₽ 33'09		minimum elong	15806 Aug 15 09:11	8° m 13'18	
evening rise	15805 Sep 13 20:34	16° ≏ 28'08		evening rise	15806 Aug 27 14:30	29° m 03'55	
	15805 Sep 21 09:45	0° M			15806 Aug 28 03:22	0∘ ⊽	
evening max el	15805 Sep 29 20:35	11°M51'58	18°09'22	asc. node	15806 Aug 30 03:01	3° ≏ 27'25	
retrograde	15805 Oct 06 22:54	15°M29'53		evening max el	15806 Sep 13 10:17	25° ჲ 02'36	18°01'32
evening set	15805 Oct 09 03:12	15° ™ 09'49		retrograde	15806 Sep 19 22:57	28° ≏ 25'49	
desc. node	15805 Oct 14 18:48	11°M44'02		evening set	15806 Sep 22 11:00	27° ≏ 55'17	
inferior conj	15805 Oct 16 09:14	10°M21'16		inferior conj	15806 Sep 29 00:52	22° ≏ 47'17	0°48'22
minimum elong	15805 Oct 16 08:10	10°M23'37	0°29'41	minimum elong	15806 Sep 29 02:15	22° Ω 43'47	0°48'05
min. Earth dist.	15805 Oct 19 15:03	7°M30'55	0.59504 AU	desc. node	15806 Oct 01 16:12	20° Ω 07'34	0.61706.444
morning rise	15805 Oct 23 09:50 15805 Oct 29 22:38	4°M45'13 2°M46'45		min. Earth dist.	15806 Oct 01 23:52	19° £ 48'53 16° £ 45'16	0.61796 AU
direct morning max el	15805 Nov 13 05:15	10°M31'24	27°43'09	morning rise direct	15806 Oct 05 14:50 15806 Oct 12 07:09	16 2 43 16 14° 2 25'40	
morning max er	15805 Nov 28 08:29	10 IIL31 24 0° √ 1	27 43 09	morning max el	15806 Oct 12 07:09 15806 Oct 26 10:48	22° £ 22'13	27°59'04
asc. node	15805 Dec 09 07:16	19° × ⁷ 05'37		morning max er	15806 Nov 02 04:48	0°M	27 37 04
use. noue	15805 Dec 14 16:53	0°ਰ			15806 Nov 21 12:56	0° ⊼ 7	
morning set	15805 Dec 15 03:31	0° ろ 56'05		asc. node	15806 Nov 26 04:14	8° ≯ 750'13	
max. Earth dist.	15805 Dec 21 11:12	14° る 45'35	1.31038 AU	morning set	15806 Nov 29 04:12	14° ₹ 53'43	
				max. Earth dist.	15806 Dec 04 16:13	26° х ³37'26	1.31471 AU
superior conj	15805 Dec 22 03:19	16° る 15'44	1°33'30		15806 Dec 06 05:02	5°0	
minimum elong	15805 Dec 22 02:05	16° る 08'47	1°34'14				
	15805 Dec 28 07:58	0° ≈		superior conj	15806 Dec 06 13:12	0° る 45'08	1°23'04
evening rise	15805 Dec 28 20:22	1° ≈ 07'01		minimum elong	15806 Dec 06 11:12	0° る 34'03	1°23'41
desc. node	15806 Jan 10 17:32	25°≈55'24		evening rise	15806 Dec 13 06:22	15°₹34'18	
	15806 Jan 13 06:10	0°) {	0.001.515.4		15806 Dec 20 07:13	0° ≈	
evening max el	15806 Jan 26 12:33	16°) 48'07	26°15'54	desc. node	15806 Dec 28 14:23	14°≈15'00	24040100
retrograde evening set	15806 Feb 09 11:49 15806 Feb 15 17:55	23°) 54'21 22°) 21'03		evening max el	15807 Jan 08 02:47 15807 Jan 11 06:10	27°≈18'10 0°) €	24°49'00
min. Earth dist.	15806 Feb 13 17.55 15806 Feb 20 01:50	19°) 43'34	0.58003 AU	retrograde	15807 Jan 21 20:51	0 X 4° ¥ 10'44	
inferior conj	15806 Feb 23 03:55	17° ¥ 29'06		evening set	15807 Jan 27 07:11	3° ¥ 05'15	
minimum elong	15806 Feb 23 12:15		3°40'24	min. Earth dist.	15807 Feb 01 14:48	0°) 18′24	0.56118 AU
morning rise	15806 Mar 03 09:48	13° ¥ 02'51	- -		15807 Feb 02 02:36	30°R≈	
direct	15806 Mar 05 09:11	12°) (49'54		inferior conj	15807 Feb 04 01:39	28° ≈ 45'19	-5°05'48
asc. node	15806 Mar 07 05:00	13° ∺ 01′29		minimum elong	15807 Feb 04 10:43	28° ≈ 30'58	
morning max el	15806 Mar 13 17:30	16° ¥ 56'40	18°33'57	morning rise	15807 Feb 12 16:36	24° ≈ 40'18	
	15806 Mar 22 23:18	0° Y		direct	15807 Feb 14 21:09	24° ≈ 27'05	
morning set	15806 Mar 29 16:26	12° Y ′30'34		asc. node	15807 Feb 22 02:24	27° ≈ 02'04	
				morning max el	15807 Feb 24 15:33	29° ≈ 11'48	19°29'44
superior conj	15806 Apr 07 16:44	29° Y 41'18	0°09'10		15807 Feb 25 10:36	0° ∀	
minimum elong	15806 Apr 07 17:21	29° Y ′44′09	0°08'43	morning set	15807 Mar 13 18:50	26°) ₹57'58	
behind sun begin	15806 Apr 07 11:24	29° Y 16'29			15807 Mar 15 07:04	0 ° Υ	
behind sun end	15806 Apr 07 23:18	0° 8 11'44					

superior conj	15807 Mar 21 21:00	13° Y 07'13	0°39'34	superior conj	15808 Mar 04 13:18	27° ₩ 04'45	1°03'42
minimum elong	15807 Mar 21 23:10	13° Y 17'45	0°39'07	minimum elong	15808 Mar 04 15:52	27° ₩ 17'52	1°03'28
desc. node	15807 Mar 26 15:45	22° Y 15'11			15808 Mar 05 23:46	0°Υ	
			1 27020 ATT	E 41 E 4		7° Υ 21'19	1 25755 ATT
max. Earth dist.	15807 Mar 28 08:38	25° Y ′23'58	1.37939 AU	max. Earth dist.	15808 Mar 09 16:49		1.35755 AU
	15807 Mar 30 21:50	9° 8		desc. node	15808 Mar 12 12:22	12° Ƴ 43'43	
evening rise	15807 Apr 01 01:16	2° 8 01'15		evening rise	15808 Mar 13 14:36	14° Ƴ 45'57	
	15807 Apr 18 13:41	$\Pi^{\circ}0$			15808 Mar 22 07:23	$6^{\circ}B$	
evening max el	15807 May 06 10:31	22° Ⅲ 25'36	25°02'51		15808 Apr 12 05:42	0°Ш	
retrograde	15807 May 18 09:44	29° I I23'38	20 0201	evening max el	15808 Apr 18 00:08	6° Ⅱ 16'40	26012127
•	•			•	-		20 12 27
asc. node	15807 May 20 23:36	28° ∏ 55'48		retrograde	15808 Apr 30 20:05	13° Ⅱ 37'09	
evening set	15807 May 24 04:38	26° Ⅱ 57'29		asc. node	15808 May 06 20:49	11° Ⅱ 14'29	
min. Earth dist.	15807 May 28 13:56	22° Ⅲ 02'21	0.68254 AU	evening set	15808 May 07 01:17	11° Ⅱ 05′22	
inferior conj	15807 May 29 19:00	20° Ⅲ 26'46	2°22'33	min. Earth dist.	15808 May 11 04:08	6° Ⅱ 45'48	0.67118 AU
minimum elong	15807 May 29 16:54	20° Ⅲ 33'43	2°21'13	inferior conj	15808 May 12 22:09	4° Ⅱ 35'58	1°45'13
morning rise	15807 Jun 04 05:29	14° Ⅲ 31'33		minimum elong	15808 May 12 20:03	4° Ⅱ 42'30	1°43'50
direct	15807 Jun 07 21:31	13° Ⅱ 14'19		minimum crong	•	30°R 8	1 13 30
			10000100		15808 May 17 02:31		
morning max el	15807 Jun 15 00:26	17° Ⅱ 08'48	19°23'38	morning rise	15808 May 18 15:39	28° 8 51'30	
desc. node	15807 Jun 22 16:21	26° Ⅱ 29'07		direct	15808 May 21 21:00	27° 8 52'38	
	15807 Jun 25 04:07	0 \circ \odot			15808 May 26 21:10	$\Pi^{\circ}0$	
greatest brilliancy	15807 Jun 27 16:15	3°938'56	-0.7m	morning max el	15808 May 28 10:15	1° Ⅲ 22'07	18°34'30
morning set	15807 Jul 09 22:14	22° © 11'39		desc. node	15808 Jun 08 13:23	16° Ⅲ 06'11	
	15807 Jul 14 23:43	$0^{\circ}\Omega$			15808 Jun 17 12:18	0ంతె	
F 41 F 4			1 45212 ATT	. ,			
max. Earth dist.	15807 Jul 22 09:40	11° Ω 33'31	1.45312 AU	morning set	15808 Jun 18 15:39	1°5647'14	
				max. Earth dist.	15808 Jul 04 04:44	26°904'35	1.45948 AU
superior conj	15807 Jul 26 03:48	17° Ω 29'28					
minimum elong	15807 Jul 26 08:50	17° Ω 49'27	2°09'49	superior conj	15808 Jul 04 14:54	26° © 44'13	-2°13'12
	15807 Aug 02 22:31	0° ™		minimum elong	15808 Jul 04 12:29	26° © 34'47	2°13'56
evening rise	15807 Aug 09 11:27	10° mp 44'50			15808 Jul 06 17:06	$0^{\circ}\Omega$	
asc. node	15807 Aug 16 23:40	23°m/07'22		evening rise	15808 Jul 20 07:34	21° Ω 22'57	
	15807 Aug 21 08:56	0∘ ಹ			15808 Jul 25 18:10	0° m)	
evening max el	15807 Aug 28 01:03	ა _ 8° ჲ 34'01	18°12'06	greatest brilliancy	15808 Jul 28 01:18	3° m) 36'52	-0.8m
•	•		18 12 00				-0.6111
retrograde	15807 Sep 03 09:45	11° ≏ 55'44		asc. node	15808 Aug 02 20:23	12° m 27'39	
evening set	15807 Sep 06 06:26	11° ≏ 11'37		evening max el	15808 Aug 10 13:53	22° Mp 19'04	18°40'16
inferior conj	15807 Sep 12 07:19	5° ≏ 46'55	1°47'29	retrograde	15808 Aug 17 03:26	25° m 52'09	
minimum elong	15807 Sep 12 09:37	5° ≏ 40'25	1°46'46	evening set	15808 Aug 20 09:22	24° m 52'02	
min. Earth dist.	15807 Sep 14 18:45	2° ♀ 59'29	0.63980 AU	inferior conj	15808 Aug 26 00:47	19° m 12'41	2°28'33
	15807 Sep 17 19:42	30°R, Mp		minimum elong	15808 Aug 26 02:58	19° m 05'55	2°27'48
morning rise	15807 Sep 18 10:59	29° m 28'55		min. Earth dist.	15808 Aug 27 22:33	16° m) 51'38	0.65884 AU
•	15807 Sep 18 13:38	29° m 23'47			15808 Aug 31 19:30	12° m) 47'24	0.03004710
desc. node		-		morning rise	•		
direct	15807 Sep 25 01:16	26° m 55'40		desc. node	15808 Sep 04 11:04	10° Mp 36'48	
	15807 Oct 03 03:29	0∘ ⊽		direct	15808 Sep 07 03:26	10° m 09'30	
morning max el	15807 Oct 08 20:38	4° ≙ 54'35	27°37'34	morning max el	15808 Sep 20 07:57	17° m 56'59	26°45'20
	15807 Oct 27 21:27	0° M ₊			15808 Sep 30 11:28	0∘ ত	
morning set	15807 Nov 12 20:48	28°M26'21			15808 Oct 19 20:10	0° M .	
asc. node	15807 Nov 13 01:06	28°M47'46		morning set	15808 Oct 26 02:20	11°M27'19	
ase. node	15807 Nov 13 15:31	0° ⊼		asc. node	15808 Oct 29 21:54	18°M53'38	
Fauth diet			1 22462 ATT				1 24012 ATT
max. Earth dist.	15807 Nov 17 14:32	8° ∡ 09'31	1.32462 AU	max. Earth dist.	15808 Oct 30 03:18	19°M20'36	1.34012 AU
	1500577	1.50 = 0 :::	10000		15000 77 07 77	200 m	004.000
superior conj	15807 Nov 20 19:33	15° ₹ 01'08	1°06'34	superior conj	15808 Nov 03 20:04	28°M58'03	0°44'00
minimum elong	15807 Nov 20 17:12	14° ∡ °48′25	1°07'00	minimum elong	15808 Nov 03 18:00	28° M ₊47'12	0°44'17
evening rise	15807 Nov 27 17:12	0° る 01'48			15808 Nov 04 07:54	0° ∡ ¹	
	15807 Nov 27 16:52	0° ට		evening rise	15808 Nov 11 03:04	14° ∡ °25′10	
	15807 Dec 14 06:34	0° ≈		<i>3</i>	15808 Nov 18 22:33	5°0	
daga mada				arranina marral			2192707
desc. node	15807 Dec 15 11:20	1°≈35'22	****	evening max el	15808 Dec 01 02:09	17°る20'21	21-2/0/
evening max el	15807 Dec 20 12:17	7° ≈ 16′53	23°06'48	desc. node	15808 Dec 01 08:23	17° る 35'29	
retrograde	15808 Jan 02 17:03	13° ≈ 49′00		retrograde	15808 Dec 13 03:34	23° る 18'10	
evening set	15808 Jan 06 22:20	13° ≈ 10′21		evening set	15808 Dec 16 02:13	22° る 58'20	
min. Earth dist.	15808 Jan 13 22:21	9° ≈ 54'53	0.54828 AU	inferior conj	15808 Dec 24 19:17	19° る 07'53	-5°50'57
inferior conj	15808 Jan 15 03:57	9° ≈ 12'25	-5°56'23	minimum elong	15808 Dec 24 13:42	19° る 15'43	5°49'32
minimum elong	15808 Jan 15 07:39	9° ≈ 07'07		min. Earth dist.	15808 Dec 25 03:49		0.54394 AU
morning rise	15808 Jan 23 18:19	5°≈22'06	= .	morning rise	15809 Jan 02 01:38	15° ට 18'41	
direct	15808 Jan 26 14:30	5°≈03'04		direct	15809 Jan 05 22:27	13 3 1841 14° 3 46'12	
			20040146				22020120
morning max el	15808 Feb 06 23:28	10°≈32'15	20°48'46	morning max el	15809 Jan 18 16:47	20°る57'52	22-28-29
asc. node	15808 Feb 08 23:47	12° ≈ 38′28		asc. node	15809 Jan 25 21:06	29° る 31'52	
	15808 Feb 20 06:56	0° ∀			15809 Jan 26 04:56	0° ≈	
morning set	15808 Feb 26 02:45	11°) € 37'36		morning set	15809 Feb 09 13:41	26° ≈ 21'29	
					15809 Feb 11 06:40	0° ∀	

superior conj	15809 Feb 16 14:04	11° ¥ 23'02	1°21'21	asc. node	15810 Jan 12 18:20	17° る 24'45	
minimum elong	15809 Feb 16 16:16	11° X 34'45	1°21'27	asc. node	15810 Jan 19 17:13	0°≈	
max. Earth dist.	15809 Feb 20 07:24	19°) 10'29	1.33878 AU	morning set	15810 Jan 25 01:40	11° ≈ 04'10	
evening rise	15809 Feb 24 18:16	28°) 04'54	1.550,0110	morning sec	10010 va ii 2 0 01.10	11	
8	15809 Feb 25 18:07	0° Υ		superior conj	15810 Jan 31 20:34	25° ≈ 54'32	1°32'38
desc. node	15809 Feb 27 08:57	3° Y '03'56		minimum elong	15810 Jan 31 21:57	26° ≈ 02'08	1°33'04
	15809 Mar 15 12:59	0°8			15810 Feb 02 17:43	0°) €	
evening max el	15809 Mar 31 13:55	19° 8 55'54	27°05'02	max. Earth dist.	15810 Feb 03 05:47	1°) €05'01	1.32429 AU
retrograde	15809 Apr 14 00:27	27° 8 26'18		evening rise	15810 Feb 08 09:00	11°)(49'42	
evening set	15809 Apr 20 14:06	24° 8 54'53		desc. node	15810 Feb 14 05:35	23°) 11'19	
asc. node	15809 Apr 23 18:06	21° 8 57'28			15810 Feb 18 00:40	0° Υ	
min. Earth dist.	15809 Apr 24 12:02	21° 8 08'38	0.65565 AU		15810 Mar 10 24:00	0°B	
inferior conj	15809 Apr 26 18:40	18° 8 33'15	0°55'29	evening max el	15810 Mar 14 02:34	3° 8 11'46	27°33'08
minimum elong	15809 Apr 26 17:16	18° 8 37'16	0°54'24	retrograde	15810 Mar 27 21:49	10° 8 42'13	
morning rise	15809 May 02 22:00	13° 8 01'19		evening set	15810 Apr 03 16:47	8° 8 17'50	
direct	15809 May 05 17:42	12° 8 18'25		min. Earth dist.	15810 Apr 07 11:36	5° 8 01'19	0.63654 AU
morning max el	15809 May 12 01:08	15° 8 35'17	18°02'11	inferior conj	15810 Apr 10 05:46	2° 8 11'45	-0°07'39
	15809 May 22 15:21	$\Pi^{\circ}0$		minimum elong	15810 Apr 10 06:01	2° 8 11'07	0°07'54
desc. node	15809 May 26 10:18	6° Ⅱ 04'46		transit middle	15810 Apr 10 06:01	2° 8 11'07	0°07'54
morning set	15809 May 30 11:03	12° Ⅲ 38′11		transit begin	15810 Apr 10 03:16	2° 8 18'11	
	15809 Jun 10 05:46	0 \circ \odot		transit end	15810 Apr 10 08:45	2° 8 04'05	
				asc. node	15810 Apr 10 15:25	1° 8 47'00	
superior conj	15809 Jun 14 02:06	6° ೨ 04′58	-1°57'06		15810 Apr 12 11:01	30° ₹ Υ	
minimum elong	15809 Jun 13 17:58	5° 5 32'58	1°57'20	morning rise	15810 Apr 16 21:40	26° Y ′54'52	
max. Earth dist.	15809 Jun 17 01:03	10° 5 43'12	1.45831 AU	direct	15810 Apr 19 08:51	26° Y ′24'50	
	15809 Jun 29 11:37	$0^{\circ}\Omega$		morning max el	15810 Apr 25 18:36	29° Ƴ 41'00	17°47'12
evening rise	15809 Jun 30 04:56	1° Ω 06′38			15810 Apr 26 02:17	0° 8	
greatest brilliancy	15809 Jul 13 02:21	20° Ω 42'07	-0.7m	morning set	15810 May 12 09:06	24° 8 45'03	
	15809 Jul 19 16:15	0° m)		desc. node	15810 May 13 07:07	26° 8 18'51	
asc. node	15809 Jul 20 17:08	1° Mp 20'40			15810 May 15 11:10	$\Pi^{\circ}0$	
evening max el	15809 Jul 24 22:18	6° Mp 10'54	19°25'10		-		
retrograde	15809 Aug 01 00:56	10°M)08'06		superior conj	15810 May 25 05:06	16° Ⅱ 12'04	-1°26'07
evening set	15809 Aug 04 16:44	8° m 50'30		minimum elong	15810 May 24 21:11	15° Ⅲ 39'52	1°25'57
inferior conj	15809 Aug 10 02:01	2° m 57'55	2°54'15	max. Earth dist.	15810 May 30 20:24	25° Ⅱ 14'47	1.44980 AU
minimum elong	15809 Aug 10 03:32	2° m 52'54	2°53'35		15810 Jun 02 20:48	0 \circ \mathfrak{s}	
min. Earth dist.	15809 Aug 11 09:38	1° m 13'53	0.67390 AU	evening rise	15810 Jun 09 15:36	10° ട്ട 30'00	
	15809 Aug 12 08:46	30° R Ω			15810 Jun 22 15:59	$0^{\circ}\Omega$	
morning rise	15809 Aug 15 13:45	26° Ω 31'40		asc. node	15810 Jul 07 13:56	19° Ω 36′37	
direct	15809 Aug 21 12:07	23° Ω 57'47		evening max el	15810 Jul 08 00:50	20° Ω 04'15	20°25'03
desc. node	15809 Aug 22 08:27	24° Ω 00′36		retrograde	15810 Jul 15 23:55	24° Ω 36′59	
	15809 Sep 01 11:06	0° m		evening set	15810 Jul 20 02:11	23° Ω 01'32	
morning max el	15809 Sep 02 19:03	1° Mp 18'20	25°31'25	inferior conj	15810 Jul 25 08:18	16° Ω 56'53	3°06'55
	15809 Sep 24 11:42	0∘ ⊽		minimum elong	15810 Jul 25 08:54	16° Ω 54'49	3°06'16
morning set	15809 Oct 08 17:13	23° ≙ 48'52		min. Earth dist.	15810 Jul 26 02:03	15° Ω 56′00	0.68442 AU
	15809 Oct 12 01:42	0° M		morning rise	15810 Jul 30 15:18	10° Ω 33'46	
max. Earth dist.	15809 Oct 12 07:03	0°M25'06	1.36045 AU	direct	15810 Aug 05 02:13	8° Ω 10′52	
asc. node	15809 Oct 16 18:38	9° ™ 03'59		desc. node	15810 Aug 09 05:49	9° Ω 18'25	
				morning max el	15810 Aug 16 05:54	14° Ω 50'46	24°05'15
superior conj	15809 Oct 18 11:58	12°M29'27	0°15'38		15810 Aug 28 15:43	0° m y	
minimum elong	15809 Oct 18 11:01	12°M24'44	0°15'56		15810 Sep 17 09:17	0∘ ত	
behind sun begin	15809 Oct 18 10:03	12°M19'55		morning set	15810 Sep 20 13:12	5° ≏ 20'35	
behind sun end	15809 Oct 18 11:59	12°M29'34		max. Earth dist.	15810 Sep 24 06:07	11° ≏ 48'36	1.38384 AU
evening rise	15809 Oct 26 09:52	28°M39'58					
	15809 Oct 27 01:31	0° ∡ ¹		superior conj	15810 Oct 01 15:40	25° ≏ 25'56	-0°17'44
evening max el	15809 Nov 13 04:32	28° ∡ °01'37	20°03'38	minimum elong	15810 Oct 01 16:54	25° ≏ 31'45	0°17'15
	15809 Nov 15 09:25	0°ප		asc. node	15810 Oct 03 15:17	29° ≏ 14'24	
desc. node	15809 Nov 18 05:30	1° る 51'26			15810 Oct 04 00:42	0° M	
retrograde	15809 Nov 23 15:52	3° ⋜ 14'46		evening rise	15810 Oct 10 11:05	12°M38'58	
evening set	15809 Nov 25 18:49	3° る 02'55			15810 Oct 19 19:07	0° ∡ ¹	
	15809 Dec 03 01:02	30°R. ✓		evening max el	15810 Oct 26 21:13	9° ∡ ³32'28	19°02'03
inferior conj	15809 Dec 04 13:58	29° ₹ 05'01	-4°46'46	retrograde	15810 Nov 04 18:39	14° ∤ 01'11	
minimum elong	15809 Dec 04 03:56	29° ∡ ¹20'07	4°43'15	desc. node	15810 Nov 05 02:42	14° ₹ 00'49	
min. Earth dist.	15809 Dec 06 10:14	27° ∡ ¹58'24	0.54909 AU	evening set	15810 Nov 06 15:51	13° ∡ ¹49'56	
morning rise	15809 Dec 12 12:07	24° ₹ ′58′10		inferior conj	15810 Nov 15 00:48	9° х 34′30	-3°08'04
direct	15809 Dec 17 09:52	24° ∡ °05'47		minimum elong	15810 Nov 14 17:05	9° ∡ ¹47'51	3°04'27
	15809 Dec 30 03:25	ರ∘ರ		min. Earth dist.	15810 Nov 17 20:59	7° ∡ ³36'59	0.56266 AU
morning max el	15809 Dec 31 01:46	0° る 51'33	24°18'25	morning rise	15810 Nov 22 15:36	4° ∡ °54′08	

direct	15810 Nov 28 09:14	3° ∡ ³37'13		morning may al	15811 Nov 24 06:02	21°ML25'18	27016'05
	15810 Nov 28 09:14 15810 Dec 12 12:13	10° x '50'30	26°00'26	morning max el	15811 Nov 24 06.02 15811 Dec 01 18:16	0° x ¹	27 1003
morning max el	15810 Dec 12 12:13 15810 Dec 27 03:02	0°る	20 00 20	asc. node	15811 Dec 17 12:34	25° ∡ 12'15	
asc. node	15810 Dec 27 05:02 15810 Dec 30 15:29	6° る 01'59		asc. node	15811 Dec 17 12:34 15811 Dec 20 00:03	25 メ ・12 13	
		6 3 01 39 25° 3 40'17		marning act		0 3 10° る 05'25	
morning set	15811 Jan 09 12:52 15811 Jan 11 12:35	23 3 40 17 0° ≈		morning set	15811 Dec 24 21:32	10 003 23	
	13811 Jan 11 12.33	0 &		gunariar aani	15911 Dec. 21, 17:56	25° る 11'33	1°36'46
superior conj	15811 Jan 16 06:31	10° ≈ 32'28	1°37'44	superior conj minimum elong	15811 Dec 31 17:56 15811 Dec 31 17:14	25° る 07'40	1°37'32
		10 ≈32 28 10°≈34'28	1°38'24	max. Earth dist.	15811 Dec 31 17:46	25°る0740	1.31034 AU
minimum elong	15811 Jan 16 06:52			max. Earth dist.			1.31034 AU
max. Earth dist.	15811 Jan 17 10:17	13°≈06'40	1.31468 AU		15812 Jan 02 21:30	0° ≈	
evening rise	15811 Jan 23 07:58	25°≈53'07		evening rise	15812 Jan 07 12:49	10°≈09'47	
	15811 Jan 25 07:50	0°) {			15812 Jan 17 14:37	0° ∀	
desc. node	15811 Feb 01 02:16	12°) 59′51		desc. node	15812 Jan 18 23:01	2° ∺ 22'10	
	15811 Feb 11 12:20	0° Υ		evening max el	15812 Feb 06 14:46	27°) €41′50	26°52'59
evening max el	15811 Feb 24 11:42	15° Y 50'44	27°30'26	_	15812 Feb 09 05:31	0° Υ	
retrograde	15811 Mar 10 11:12	23° Y 15'11		retrograde	15812 Feb 20 15:22	4° Y ′56′19	
evening set	15811 Mar 17 06:40	21° Y °05'08		evening set	15812 Feb 27 04:31	3° Y 07'54	
min. Earth dist.	15811 Mar 21 01:20	18° Y 12′07	0.61486 AU	min. Earth dist.	15812 Mar 02 04:49	0° Υ 28'24	0.59234 AU
inferior conj	15811 Mar 24 04:07	15° Y 22'42			15812 Mar 02 19:35	30° ₹ ₩	
minimum elong	15811 Mar 24 07:06	15° Y 15′52	1°23'08	inferior conj	15812 Mar 05 09:58	27° ¥ 56′02	
asc. node	15811 Mar 28 12:45	11° Y 49'49		minimum elong	15812 Mar 05 16:30	27°) 43′07	2°48'59
morning rise	15811 Mar 31 10:46	10° Y 23′50		morning rise	15812 Mar 13 08:00	23° ∺ 17'41	
direct	15811 Apr 02 14:55	10° Y ′03′20		asc. node	15812 Mar 14 10:08	23° ∺ 06′09	
morning max el	15811 Apr 09 11:35	13° Y '30'20	17°50'11	direct	15812 Mar 15 07:40	23° ∺ 03′09	
	15811 Apr 20 18:25	0° 8		morning max el	15812 Mar 23 00:29	26° ¥ 52′29	18°12'08
morning set	15811 Apr 25 04:39	7° 8 51'52			15812 Mar 25 18:43	0° Y	
desc. node	15811 Apr 30 03:54	16° 8 43'32		morning set	15812 Apr 07 15:47	21° Y 40'32	
	•			•	15812 Apr 12 02:20	0°8	
superior conj	15811 May 06 07:23	27° 8 24'02	-0°48'29	desc. node	15812 Apr 16 00:37	7° 8 14'00	
minimum elong	15811 May 06 02:57	27° 8 05'10	0°48'28		•		
· ·	15811 May 07 20:11	$\Pi^{\circ}0$		superior conj	15812 Apr 17 08:13	9° 8 36'52	-0°10'53
max. Earth dist.	15811 May 13 12:07	9° Ⅲ 22'31	1.43482 AU	minimum elong	15812 Apr 17 07:20	9° 8 32'52	0°11'11
evening rise	15811 May 20 08:16	20° Ⅱ 15'51		behind sun begin	15812 Apr 17 01:54	9° 8 08'24	
	15811 May 26 16:33	0 - -		behind sun end	15812 Apr 17 12:46	9° 8 57'18	
	15811 Jun 17 06:35	$0 {\circ} \Omega$		max. Earth dist.	15812 Apr 24 22:40	22° 8 51'35	1.41501 AU
evening max el	15811 Jun 20 21:26	3° Ω 57'38	21°37'01	max. Lartii dist.	15812 Apr 29 06:05	0°Ⅱ	1.41501710
asc. node	15811 Jun 24 10:50	7° Ω 03'36	21 37 01	evening rise	15812 Apr 29 18:36	0° П 50'50	
retrograde	15811 Jun 29 22:33	9° Ω 13'43		evening rise	15812 May 19 02:57	0° ©	
evening set	15811 Jul 04 11:49	7° Ω 21'11		evening max el	15812 Jun 02 13:33	17°951'10	22056144
inferior conj		1° Ω 05'58	2000107	•	15812 Jun 10 07:49	23°925'18	22 30 44
minimum elong	15811 Jul 09 17:26 15811 Jul 09 17:04	1° Ω 03'38		asc. node	15812 Jun 10 07.49	23°951'53	
				retrograde			
min. Earth dist.	15811 Jul 09 21:49	0° Ω 50′39	0.69016 AU	evening set	15812 Jun 17 19:57	21°9544'05	2050142
	15811 Jul 10 12:23	30°₹©		inferior conj	15812 Jun 23 03:24	15°520'26	2°58'43
morning rise	15811 Jul 14 22:07	24°5548'32		minimum elong	15812 Jun 23 02:10	15°9524'42	2°57'45
direct	15811 Jul 19 20:48	22°5541'26		min. Earth dist.	15812 Jun 22 18:47	15°950'19	0.69100 AU
desc. node	15811 Jul 27 03:08	26°906'16	22027105	morning rise	15812 Jun 28 08:16	9°510'27	
morning max el	15811 Jul 29 18:05		22°36'05	direct	15812 Jul 02 18:42	7° © 21'59	
	15811 Jul 31 03:57	0° Ω		morning max el	15812 Jul 11 10:11	12°521'18	21°12'01
	15811 Aug 22 07:31	0° m/		desc. node	15812 Jul 13 00:24	14°9501'07	
morning set	15811 Sep 01 10:29	15° m 54'22			15812 Jul 25 08:19	0°N	
max. Earth dist.	15811 Sep 06 06:19	23° m 54'48	1.40774 AU	morning set	15812 Aug 11 08:08	25° Ω 28'11	
	15811 Sep 09 19:31	0∘ ⊽			15812 Aug 14 05:05	0° m)	
				max. Earth dist.	15812 Aug 18 11:53	6° m 53'13	1.42936 AU
superior conj	15811 Sep 14 03:06	7° ჲ 38'22					
minimum elong	15811 Sep 14 07:22	7° ≏ 57'34	0°53'23	superior conj	15812 Aug 25 17:55	18° m 57'08	-1°29'46
asc. node	15811 Sep 20 11:56	19° ≙ 21'40		minimum elong	15812 Aug 26 01:04	19° m 27'35	1°29'07
evening rise	15811 Sep 24 03:33	26° ≙ 14'23			15812 Sep 01 02:41	0∘ ত	
	15811 Sep 26 03:29	0° M		evening rise	15812 Sep 06 07:07	9° ≙ 15'13	
evening max el	15811 Oct 10 01:26	21°M50'01	18°22'37	asc. node	15812 Sep 06 08:35	9° £ 21'48	
retrograde	15811 Oct 17 16:41	25°M42'58			15812 Sep 18 14:51	0° M	
evening set	15811 Oct 19 17:02	25°M27'27		evening max el	15812 Sep 22 12:54	4°M44'28	18°03'44
desc. node	15811 Oct 22 23:58	24°M02'15		retrograde	15812 Sep 29 08:13	8°M14'24	
inferior conj			102.412.0	arramina aat	-	7°M50'23	
illiellol collj	15811 Oct 27 09:16	20°M51'05	-1°24'39	evening set	15812 Oct 01 15:37	/ 1103023	
minimum elong	15811 Oct 27 09:16 15811 Oct 27 06:01	20°M51'05 20°M57'40	-1°24'39 1°22'44	inferior conj	15812 Oct 01 15.37 15812 Oct 08 14:30	2°M53'36	0°05'21
				-			0°05'21 0°05'39
minimum elong	15811 Oct 27 06:01	20°M57'40	1°22'44	inferior conj	15812 Oct 08 14:30	2°M53'36	
minimum elong min. Earth dist.	15811 Oct 27 06:01 15811 Oct 30 15:10	20°M57'40 18°M14'28	1°22'44	inferior conj minimum elong	15812 Oct 08 14:30 15812 Oct 08 14:41	2°M53'36 2°M53'09	0°05'39

4 24 1	15012 0 4 00 17 47	20 m 45154			15012 0 21 12 54	150 0 24140	1015140
transit end	15812 Oct 08 17:47	2°M45'54		inferior conj	15813 Sep 21 12:54	15° £ 34'40	1°15'48
desc. node	15812 Oct 08 21:19	2°M37'35		minimum elong	15813 Sep 21 14:50	15° £ 29'32	1°15'16
	15812 Oct 11 17:05	30° R <u>Ω</u>		min. Earth dist.	15813 Sep 24 07:27	12° ≏ 38'49	0.62757 AU
min. Earth dist.	15812 Oct 11 18:26	29° £ 56'59	0.60480 AU	desc. node	15813 Sep 25 18:44	11° ≏ 12'43	
morning rise	15812 Oct 15 10:36	27° ≏ 05'14		morning rise	15813 Sep 27 22:25	9° £ 24'59	
direct	15812 Oct 22 01:46	24° ≙ 56'34		direct	15813 Oct 04 14:42	6° ≙ 58'24	
	15812 Nov 02 05:45	0° M		morning max el	15813 Oct 18 15:09	14° ≏ 56'49	27°54'08
morning max el	15812 Nov 05 07:41	2°M47'57	27°54'40		15813 Oct 30 22:01	0° M	
	15812 Nov 25 07:00	0° ∡			15813 Nov 17 21:44	0° ∡	
asc. node	15812 Dec 03 09:36	14° ∡ ¹46'34		asc. node	15813 Nov 20 06:31	4° ∡ °37'16	
morning set	15812 Dec 08 01:46	24° х 14′52		morning set	15813 Nov 21 23:18	8° ≯ 02'24	
Ü	15812 Dec 10 18:30	0°₹		max. Earth dist.	15813 Nov 27 03:12	18° ∡ 753′06	1.31823 AU
max. Earth dist.	15812 Dec 14 00:42	7° る 09'19	1.31147 AU	man. Darur dige.	10013 1(0) 27 03.12	10 7. 22 00	1.51025110
max. Earth dist.	13012 Dec 11 00.12	, 30, 1,	1.5111,710	superior conj	15813 Nov 29 13:35	24° ₹ 11'06	1°16'49
superior conj	15812 Dec 15 04:57	9° ප 46'32	1°29'49	minimum elong	15813 Nov 29 11:23	23° × ⁷ 58'57	1°17'21
		9° る 37'36		minimum clong		23 x 38 37	1 1/21
minimum elong	15812 Dec 15 03:21		1°30'31		15813 Dec 02 04:55		
evening rise	15812 Dec 21 21:30	24° る 35'02		evening rise	15813 Dec 06 08:04	9° ට 03'09	
	15812 Dec 24 10:39	0° ≈			15813 Dec 16 22:58	0° ≈	
desc. node	15813 Jan 04 19:49	21° ≈ 08'39		desc. node	15813 Dec 22 16:44	9° ≈ 05'17	
	15813 Jan 10 20:07	0° ∀		evening max el	15813 Dec 30 21:36	18° ≈ 55'09	24°06'27
evening max el	15813 Jan 18 09:57	8°)(41'11	25°42'00	retrograde	15814 Jan 13 11:13	25° ≈ 39'26	
retrograde	15813 Feb 01 08:09	15°) 42′22		evening set	15814 Jan 18 10:07	24°≈46′05	
evening set	15813 Feb 07 06:42	14°) €20'59		min. Earth dist.	15814 Jan 24 09:13	21° ≈ 49'31	0.55481 AU
min. Earth dist.	15813 Feb 11 22:52	11°) (41'24	0.57138 AU	inferior conj	15814 Jan 26 09:01	20°≈37'34	
inferior conj	15813 Feb 14 20:03	9°) (43'02		minimum elong	15814 Jan 26 16:38	20°≈26'05	5°30'55
•							3 30 33
minimum elong	15813 Feb 15 05:15	9° ₩ 27'16	4°1/30	morning rise	15814 Feb 04 00:55	16°≈39'38	
morning rise	15813 Feb 23 06:44	5° ∺ 25'57		direct	15814 Feb 06 10:55	16° ≈ 24'38	
direct	15813 Feb 25 07:00	5° ∺ 13'32		asc. node	15814 Feb 16 04:55	20° ≈ 49′14	
asc. node	15813 Mar 01 07:32	6°) €06'14		morning max el	15814 Feb 16 21:28	21° ≈ 28′04	20°00'28
morning max el	15813 Mar 06 05:12	9°) 35′56	18°54'52		15814 Feb 23 15:47	0° ∀	
	15813 Mar 19 12:04	0° Υ		morning set	15814 Mar 06 18:49	20°) 30′53	
morning set	15813 Mar 22 13:44	5° Ƴ 57'18			15814 Mar 11 10:15	0° Y	
superior conj	15813 Mar 31 03:46	22° Y 39'38	0°22'46	superior conj	15814 Mar 14 13:35	6° Ƴ 19'51	0°50'36
minimum elong	15813 Mar 31 05:12	22° Y 46′25	0°22'17	minimum elong	15814 Mar 14 16:02	6° Ƴ 32'03	0°50'12
desc. node	15813 Apr 02 21:17	27° Υ 46'45		max. Earth dist.	15814 Mar 20 12:13	17° Y 50'56	1.36989 AU
dese. Hode	15813 Apr 04 02:15	0°8		desc. node	15814 Mar 20 17:55	18° Υ 17'37	1.50707710
Fauth diet	•	5° 8 38'53	1 202(0 AII		15814 Mar 24 05:40	24° Υ 41'40	
max. Earth dist.	15813 Apr 07 05:32	_	1.39260 AU	evening rise			
evening rise	15813 Apr 11 02:17	12° 8 21'43			15814 Mar 27 05:50	0°8	
	15813 Apr 22 00:28	$\Pi^{\circ}0$			15814 Apr 15 15:16	$0^{\circ}\Pi$	
	15813 May 14 10:16	$0 {\circ} \mathfrak{S}$		evening max el	15814 Apr 28 17:07	15° Ⅱ 40'19	25°34'08
evening max el	15813 May 16 03:32	1° 5 346'08	24°18'06	retrograde	15814 May 11 01:39	22° Ⅱ 48'37	
retrograde	15813 May 27 12:39	8° 5 25'39		asc. node	15814 May 15 02:03	21° ∏ 42'39	
asc. node	15813 May 28 04:53	8° © 23'42		evening set	15814 May 17 01:09	20° Ⅱ 19'35	
evening set	15813 Jun 02 00:57	6° © 05'21		min. Earth dist.	15814 May 21 07:37	15° Ⅲ 39'48	0.67828 AU
min. Earth dist.	15813 Jun 06 14:46	0°5548'49	0.68702 AU	inferior conj	15814 May 22 18:08	13° Ⅱ 49′03	2°08'10
	15813 Jun 07 05:15	30° Ŗ Ⅱ		minimum elong	15814 May 22 15:57	13° Ⅱ 56′03	2°06'47
inferior conj	15813 Jun 07 12:17		2°38'53	morning rise	15814 May 28 07:14	7° Ⅲ 58'10	
minimum elong	15813 Jun 07 10:24	29° II 42'36		direct	15814 May 31 18:43	6° Ⅱ 48'47	
•	15813 Jun 12 19:56	23° II 35'07	2 37 40		15814 Jun 07 14:40	10° I I30'43	19°00'44
morning rise				morning max el			19 00 44
direct	15813 Jun 16 18:34	22° I 106'23	10050100	desc. node	15814 Jun 16 18:41	22° I 106'02	0.7
morning max el	15813 Jun 24 08:45	26° Ⅲ 21'10	19°59'00	greatest brilliancy	15814 Jun 20 17:44	27° Ⅱ 57'02	-0.7m
	15813 Jun 27 16:26	0 \circ \odot			15814 Jun 22 02:19	0 \circ \odot	
desc. node	15813 Jun 29 21:36	2° © 45'24		morning set	15814 Jun 30 21:04	13° © 28'37	
	15813 Jul 18 16:53	$0 {\circ} \mathcal{N}$			15814 Jul 11 12:46	$0 { m ^o} \Omega$	
morning set	15813 Jul 21 13:37	4° Ω 22'47		max. Earth dist.	15814 Jul 14 18:15	5° Ω 02'24	1.45676 AU
max. Earth dist.	15813 Aug 01 00:22	20° Ω 40′29	1.44630 AU				
				superior conj	15814 Jul 17 03:44	8° Ω 47'43	-2°13'28
superior conj	15813 Aug 06 09:17	29° Ω 17'21	-1°58'42	minimum elong	15814 Jul 17 05:55	8° Ω 56'18	
minimum elong	15813 Aug 06 16:37	29° Ω 47'05			15814 Jul 30 10:54	0° m)	
mmmum ciong	-	29 3 (4 / 03	1 30 70	avaning rise			
	15813 Aug 06 19:48			evening rise	15814 Aug 01 03:24	2° Mp 44'02	
evening rise	15813 Aug 19 16:44	21° m 28'53		asc. node	15814 Aug 11 01:55	18° m 43'19	
asc. node	15813 Aug 24 05:14	29° m 10'34			15814 Aug 19 02:59	0∘ ত	
	15813 Aug 24 16:56	0∘ ⊽		evening max el	15814 Aug 20 17:54	1° ≏ 44'17	18°21'58
evening max el	15813 Sep 06 03:33	18° ≏ 05'27	18°03'51	retrograde	15814 Aug 27 03:27	5° ≏ 09'06	
retrograde	15813 Sep 12 13:13	21° ≏ 25'59		evening set	15814 Aug 30 04:06	4° £ 18'14	
evening set	15813 Sep 15 04:58	20° ≏ 49'55			15814 Sep 03 23:21	30° ₽, ™)	
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	150146 05 00 20	200m-46152	2007154		15015 4 04 05 01	1.50 m. 2012.4	10057121
inferior conj	15814 Sep 05 00:30	28° Mp 46'52	2°06'54	evening max el	15815 Aug 04 05:01	15° My 32'34	18°57'21
minimum elong	15814 Sep 05 02:51	28° m 39'57 26° m 09'26	2°06'09	retrograde	15815 Aug 10 23:13	19° Mp 14'42	
min. Earth dist.	15814 Sep 07 06:09	•	0.64833 AU	evening set	15815 Aug 14 09:14	18° Mp 07'14	2941100
morning rise desc. node	15814 Sep 11 00:11 15814 Sep 12 16:08	22° m 25'03		inferior conj	15815 Aug 19 21:38	12° m 21'49	2°41'09
	1	21° m) 14'32		minimum elong	15815 Aug 19 23:35	12° M) 15'36	2°40'27
direct	15814 Sep 17 12:12	19° Mp 49'02	27010141	min. Earth dist.	15815 Aug 21 13:18	10° Mp 15'40	0.66571 AU
morning max el	15814 Oct 01 01:55	27° Mp 44'00	2/°18'41	morning rise	15815 Aug 25 13:06	5° My 55'20	
	15814 Oct 03 05:45	ია დ		desc. node	15815 Aug 30 13:32	3° m 23'33	
_	15814 Oct 24 15:32	0° M ,		direct	15815 Aug 31 17:06	3° m/ 18'28	
morning set	15814 Nov 05 11:36	21°M22'46		morning max el	15815 Sep 13 13:31	10° m 56'39	26°16'05
asc. node	15814 Nov 07 03:21	24° M ₃39'17			15815 Sep 28 18:13	0∘ ⊽	
	15814 Nov 09 18:34	0° ∡ ¹			15815 Oct 17 05:24	0° M	
max. Earth dist.	15814 Nov 09 21:57	0° ∡ 17'31	1.33064 AU	morning set	15815 Oct 19 11:23	4°M08'13	
				max. Earth dist.	15815 Oct 23 06:53	11°M24'35	1.34829 AU
superior conj	15814 Nov 13 17:46	8° ∡ 120′06	0°57'45	asc. node	15815 Oct 25 00:07	14° M 47'34	
minimum elong	15814 Nov 13 15:27	8° ₰ 07'41	0°58'06				
evening rise	15814 Nov 20 18:46	23° ∡ °30′07		superior conj	15815 Oct 28 14:58	22°M06'51	0°32'39
	15814 Nov 23 21:05	0°ಕ		minimum elong	15815 Oct 28 13:15	21°M58'03	0°32'55
desc. node	15814 Dec 09 13:42	25° る 54'24			15815 Nov 01 09:53	0° ∡ ¹	
evening max el	15814 Dec 12 07:37	28° る 50'47	22°22'58	evening rise	15815 Nov 05 03:35	7° ∡ 750'35	
	15814 Dec 13 13:23	0°≈			15815 Nov 16 22:50	0°₹	
retrograde	15814 Dec 25 02:04	5° ≈ 09'56		evening max el	15815 Nov 24 01:57	9° る 06'49	20°49'01
evening set	15814 Dec 28 18:07	4° ≈ 40'21		desc. node	15815 Nov 26 10:45	11° る 13'21	
min. Earth dist.	15815 Jan 05 15:02	1° ≈ 07'09	0.54538 AU	retrograde	15815 Dec 05 12:11	14° る 47'04	
inferior conj	15815 Jan 06 05:04	0° ≈ 47'28	-6°01'43	evening set	15815 Dec 08 00:27	14° පි 31'50	
minimum elong	15815 Jan 06 04:49	0° ≈ 47'49	6°00'58	inferior conj	15815 Dec 16 19:57	10° る 39'26	-5°29'55
	15815 Jan 07 15:09	30°Ŗ₹		minimum elong	15815 Dec 16 11:32	10°る51'30	5°27'34
morning rise	15815 Jan 14 16:35	27° る 00'06		min. Earth dist.	15815 Dec 17 20:29	10° පි 04'16	0.54497 AU
direct	15815 Jan 17 22:46	26° පි 36'15		morning rise	15815 Dec 24 22:37	6° る 45'03	
	15815 Jan 27 03:13	0° ≈		direct	15815 Dec 29 06:07	6° る 05'04	
morning max el	15815 Jan 29 22:45	2° ≈ 23'26	21°29'04	morning max el	15816 Jan 11 11:36	12° る 32'23	23°15'02
asc. node	15815 Feb 03 02:15	7° ≈ 00'21		asc. node	15816 Jan 20 23:31	24° る 21'08	
	15815 Feb 16 15:39	0° ∀			15816 Jan 24 10:58	0° ≈	
morning set	15815 Feb 19 04:16	5° ¥ 13'08		morning set	15816 Feb 03 15:53	19° ≈ 57'39	
		. ,,,,,			15816 Feb 08 07:18	0° ∀	
superior conj	15815 Feb 26 09:50	20° ¥ 27'07	1°12'00			• //	
minimum elong	15815 Feb 26 12:19	20°) 40′02	1°11'53	superior conj	15816 Feb 10 13:23	4° ¥ 52'36	1°26'55
max. Earth dist.	15815 Mar 02 22:58	29°) 43′27	1.34912 AU	minimum elong	15816 Feb 10 15:17	5°) 02'49	1°27'09
	15815 Mar 03 02:18	0°Υ		max. Earth dist.	15816 Feb 13 16:47	11°) (33'50	1.33198 AU
evening rise	15815 Mar 07 01:28	7° Υ 41'33		evening rise	15816 Feb 18 10:14	21°) 12'47	1.55170110
desc. node	15815 Mar 07 14:31	8° Y '42'59		desc. node	15816 Feb 22 11:08	28°) 58'45	
desc. node	15815 Mar 19 21:56	0°8		dese. node	15816 Feb 23 00:18	0°Υ	
evening max el	15815 Apr 11 06:49	29° 8 27'08	26°37'20		15816 Mar 12 18:39	0°8	
evening max er	15815 Apr 11 20:28	0°Ⅱ	20 37 20	evening max el	15816 Mar 23 20:07	12° 8 57'41	27°20'20
retrograde	15815 Apr 24 09:24	6° Ⅱ 52'52		retrograde	15816 Apr 06 11:05	20° 8 29'57	27 20 20
evening set	15815 Apr 30 18:42	4° Ⅱ 20'15		evening set	15816 Apr 13 03:32	18° 8 00'17	
asc. node	15815 May 01 23:18	3° Ⅱ 17'32		min. Earth dist.	15816 Apr 16 23:43	14° 8 27'29	0.64787 AU
min. Earth dist.	15815 May 04 19:12	0° П 15'31	0.66507 AU	asc. node	15816 Apr 17 20:34	13° 8 31'26	0.04/8/ AU
mm. Earth dist.	15815 May 05 00:29	30°R 8	0.00307 AU	inferior conj	15816 Apr 19 11:37	11° 8 44'10	0°30'23
inferior conj	15815 May 06 18:44	27° 8 53'31	1025141	minimum elong	15816 Apr 19 10:47	11° 8 46'27	0°29'35
minimum elong	15815 May 06 16:49	27° 8 59'15	1°24'23	morning rise	15816 Apr 25 20:00	6° 8 18'35	0 29 33
•	•	22° 8 14'25	1 24 23	direct	-	5° 8 41'42	
morning rise	15815 May 12 16:05	22 8 1423			15816 Apr 28 11:50	8° 8 56'56	17952142
direct	15815 May 15 17:15		10010144	morning max el	15816 May 04 19:23		1/-5343
morning max el	15815 May 22 02:57	24° 8 44'55	18°18'44		15816 May 19 07:48	0°II	
	15815 May 26 14:41	0°Ⅱ 110Ⅲ52154		desc. node	15816 May 20 12:32	1° Ⅱ 59'05	
desc. node	15815 Jun 03 15:39	11° Ⅱ 52'54		morning set	15816 May 22 07:54	4° Ⅱ 59'02	
morning set	15815 Jun 11 00:44	23° Ⅱ 34'15			15016 1 05 05 05	0.50 H 0.610 5	1045110
	15815 Jun 15 01:55	0₀ ௐ		superior conj	15816 Jun 05 05:07	27° I I36'25	
	15015 1 26 12 2	1700	2000120	minimum elong	15816 Jun 04 20:25	27° Ⅱ 01'48	1~45'19
superior conj	15815 Jun 26 12:36	17°958'51			15816 Jun 06 17:18	0°©	1 45540 : **
minimum elong	15815 Jun 26 07:07	17°537'27		max. Earth dist.	15816 Jun 09 10:23	4°516'33	1.45549 AU
max. Earth dist.	15815 Jun 27 14:32	19° © 39'58	1.45986 AU	evening rise	15816 Jun 21 03:54	22°526'28	
	15815 Jul 04 05:46	0°N			15816 Jun 26 02:56	0°N	
evening rise	15815 Jul 12 13:03	12° Ω 56'41		greatest brilliancy	15816 Jul 05 15:51	14° Ω 13'16	-0.6m
greatest brilliancy	15815 Jul 22 16:01	28° Ω 39'09	-0.8m	asc. node	15816 Jul 14 19:25	26° Ω 31'50	
	15815 Jul 23 13:18	0° m)		evening max el	15816 Jul 17 10:58	29° Ω 25′12	19°48'54
asc. node	15815 Jul 28 22:38	7° m 53'03			15816 Jul 18 01:20	0° m	

						0	
retrograde	15816 Jul 24 21:41	3°M)36'44			15817 Jun 19 16:23	0 \circ Ω	
evening set	15816 Jul 28 17:45	2° Mp 11'43		evening max el	15817 Jun 30 10:56	13° Ω 18'56	20°54'29
	15816 Jul 31 01:43	30° R Ω		asc. node	15817 Jul 01 16:15	14° Ω 28'49	
inferior conj	15816 Aug 03 01:19	26° Ω 13'48	3°01'06	retrograde	15817 Jul 08 20:39	18° Ω 09'24	
minimum elong	15816 Aug 03 02:28	26° Ω 09'56	3°00'27	evening set	15817 Jul 13 03:29	16° Ω 26'46	
min. Earth dist.	15816 Aug 04 03:02	24° Ω 47'23	0.67891 AU	inferior conj	15817 Jul 18 09:06	10° Ω 17'39	3°08'46
morning rise	15816 Aug 08 10:44	19° Ω 48'10		minimum elong	15817 Jul 18 09:17	10° Ω 16'59	3°08'05
direct	15816 Aug 14 04:20	17° Ω 18'06		min. Earth dist.	15817 Jul 18 21:13	9° Ω 35'40	0.68746 AU
desc. node	15816 Aug 16 10:55	17° Ω 38'26		morning rise	15817 Jul 23 14:48	3°Ω56'35	0.007 10 710
	•	24°Ω23'45	24955120	direct	15817 Jul 28 20:39	1° Ω 39'39	
morning max el	15816 Aug 26 00:31		24 33 39				
	15816 Aug 31 01:30	0° my		desc. node	15817 Aug 03 08:16	3° Ω 37'24	22025106
	15816 Sep 21 04:13	0∘ ত		morning max el	15817 Aug 08 11:27	7° Ω 59'15	23°27′06
morning set	15816 Sep 30 18:46	16° ≏ 10'07			15817 Aug 25 17:16	0° ™	
max. Earth dist.	15816 Oct 04 07:31	22° ≙ 31'55	1.37011 AU	morning set	15817 Sep 12 05:30	27° m 18'18	
	15816 Oct 08 07:09	0° M ₊			15817 Sep 13 19:49	0∘ ত	
asc. node	15816 Oct 10 20:49	4°M58'26		max. Earth dist.	15817 Sep 16 05:59	4° ჲ 09'53	1.39407 AU
superior conj	15816 Oct 11 02:08	5° ™ 24'27	0°02'01	superior conj	15817 Sep 23 23:30	18° ≏ 04'03	-0°32'58
minimum elong	15816 Oct 11 01:58	5° M 23'40	0°02'23	minimum elong	15817 Sep 24 01:57	18° ≏ 15'22	0°32'21
behind sun begin	15816 Oct 10 19:29	4° ጤ 51'52		asc. node	15817 Sep 27 17:30	25° ഫ 08'27	
behind sun end	15816 Oct 11 08:28	5°M55'34			15817 Sep 30 06:08	0° M ₊	
evening rise	15816 Oct 19 08:21	21°M59'22		evening rise	15817 Oct 03 06:17	5° ™ 49'39	
S	15816 Oct 23 09:06	0° ∡ ¹		Č	15817 Oct 17 12:34	0° ∡ ¹	
evening max el	15816 Nov 05 10:37	20°×709'20	19°34'44	evening max el	15817 Oct 19 08:51	2°×702'10	18°42'45
desc. node	15816 Nov 12 07:54	24°×737'44	1) 5444	retrograde	15817 Oct 27 16:02	6°×713'48	10 42 43
				•		6°×1348	
retrograde	15816 Nov 15 05:27	25° × 02'51		evening set	15817 Oct 29 14:00		
evening set	15816 Nov 17 04:15	24° ₹ 52'04		desc. node	15817 Oct 30 05:09	5° ₹ 51'45	
inferior conj	15816 Nov 25 20:23	20° ∡ ¹47'57		inferior conj	15817 Nov 06 16:14	1° ∡ ³37'12	
minimum elong	15816 Nov 25 10:44	21° ₮ 03'16	4°03'21	minimum elong	15817 Nov 06 10:24	1° ∡ 747'58	2°20'25
min. Earth dist.	15816 Nov 28 04:46	19° ∡ 18'27	0.55391 AU		15817 Nov 08 20:46	30°Ŗ M ₊	
morning rise	15816 Dec 03 15:22	16° ∡ ¹27'47		min. Earth dist.	15817 Nov 09 18:22	29°M21'07	0.57044 AU
direct	15816 Dec 08 22:17	15° ∡ ¹25'13		morning rise	15817 Nov 14 03:39	26° ™ 41′09	
morning max el	15816 Dec 22 20:10	22° х 24'19	25°03'55	direct	15817 Nov 20 04:18	25°M12'31	
	15816 Dec 29 12:56	ರ°0			15817 Dec 01 10:43	0° ∡ ¹	
asc. node	15817 Jan 06 20:43	12° る 34'45		morning max el	15817 Dec 04 09:11	2° ∡ ³35'42	26°36'35
use. Houe	15817 Jan 15 23:21	0°≈		morning max or	15817 Dec 23 22:34	0°중	20 3033
morning sat	15817 Jan 18 03:44	0 ~ 4° ≈ 38'18		asc. node	15817 Dec 24 17:51	0 3 1°る27'49	
morning set	1361/Jaii 16 03.44	4 ≈36 16					
				morning set	15818 Jan 02 14:06	19° る 10'42	
superior conj	15817 Jan 24 21:37	19° ≈ 28′05			15818 Jan 07 12:08	0° ≈	
minimum elong	15817 Jan 24 22:35	19° ≈ 33'25					
max. Earth dist.	15817 Jan 26 17:50	23° ≈ 30'51	1.31953 AU	superior conj	15818 Jan 09 08:27	4° ≈ 07'43	1°38'03
	15817 Jan 29 18:04	0°) €		minimum elong	15818 Jan 09 08:22	4° ≈ 07'12	1°38'47
evening rise	15817 Feb 01 04:48	5°) €06'47		max. Earth dist.	15818 Jan 10 00:07	5° ≈ 35'12	1.31223 AU
desc. node	15817 Feb 08 07:46	18° ¥ 59'10		evening rise	15818 Jan 16 06:36	19° ≈ 17'20	
	15817 Feb 14 15:58	$0^{\circ}\mathbf{Y}$		-	15818 Jan 21 13:08	0° ∀	
evening max el	15817 Mar 06 07:32	25° Y ′59'41	27°36'07	desc. node	15818 Jan 26 04:30	8°) 38′04	
	15817 Mar 11 02:19	0°8			15818 Feb 09 03:47	0°Υ	
retrograde	15817 Mar 20 05:31	3° 8 28'55		evening max el	15818 Feb 16 14:42	8° Υ 20'43	27°18'52
evening set	15817 Mar 27 01:10	1° 8 09'50		retrograde	15818 Mar 02 15:05	15° Υ 40'35	2, 1002
evening set		30°RΥ		•			
min D d U :	15817 Mar 28 14:43		0.62750.411	evening set	15818 Mar 09 08:38	13° Y 39'19	0.60522 433
min. Earth dist.	15817 Mar 30 19:25	28° Y ′04'01	0.62750 AU	min. Earth dist.	15818 Mar 13 04:59	10° Y 53'10	0.60532 AU
inferior conj	15817 Apr 02 17:44	25° Y 12′26		inferior conj	15818 Mar 16 09:34	8° Y ′09'11	
minimum elong	15817 Apr 02 19:01	25° Y ′09′18	0°38'17	minimum elong	15818 Mar 16 14:01	7° Y 59'37	1°58'31
asc. node	15817 Apr 04 17:53	23° Y 18′16		asc. node	15818 Mar 22 15:15	3° Ƴ 46'36	
morning rise	15817 Apr 09 15:42	20° Y ′02'49		morning rise	15818 Mar 23 22:47	3° Y 18′20	
direct	15817 Apr 11 23:33	19° Ƴ 37'23		direct	15818 Mar 26 00:38	3° Ƴ 00'47	
morning max el	15817 Apr 18 13:04	22° Y ′57'09	17°46'11	morning max el	15818 Apr 02 04:42	6° Y 36'04	17°57'00
Ü	15817 Apr 24 03:17	0°8		Č	15818 Apr 17 05:26	0°8	
morning set	15817 May 04 15:51	17° 8 33'44		morning set	15818 Apr 17 18:42	1° 8 00'37	
desc. node	15817 May 07 09:21	22° 8 18'18		desc. node	15818 Apr 24 06:06	12° 8 46'03	
dese. Houc	-	22 О 18 18		desc. Houc	13010 Apr 24 00.00	12 04003	
	15817 May 11 20:49	υщ		aumoni	15010 4 20 05 50	100 40150	0022114
	15017734 15 15 15	0077.00-	1010121	superior conj	15818 Apr 28 05:50	19° 8 48'59	
superior conj	15817 May 16 17:40	8°Ⅲ10'25		minimum elong	15818 Apr 28 03:01	19° 8 36'42	0~32'20
minimum elong	15817 May 16 11:03	7° Ⅱ 43'01	1°10'22		15818 May 04 05:11	Π °0	
max. Earth dist.	15817 May 23 03:52	18° Ⅱ 37'48	1.44414 AU	max. Earth dist.	15818 May 05 17:42	2° ∏ 31′21	1.42696 AU
	15817 May 30 09:26	0 \circ 60		evening rise	15818 May 11 14:25	11° Ⅱ 59'38	
evening rise	15817 May 31 15:07	1° 9 54'29			15818 May 23 09:43	0 \circ \odot	

evening max el	15818 Jun 13 05:31	27° © 12'43	22°10'23		15819 Apr 26 17:32	0°Щ	
evening max er	15818 Jun 16 08:10	0°Ω	22 1025		15819 May 17 08:10	0° ©	
asc. node	15818 Jun 18 13:11	1°Ω30'13		evening max el	15819 May 26 20:27	11° © 07'18	23°31'28
retrograde	15818 Jun 22 18:29	2°Ω47'22		asc. node	15819 Jun 05 10:12	17°9519'32	23 31 20
evening set	15818 Jun 27 12:40	0° Ω 48'02		retrograde	15819 Jun 06 13:53	17°925'17	
<i>3</i>	15818 Jun 28 09:29	30°Rூ		evening set	15819 Jun 11 19:41	15°5911'29	
inferior conj	15818 Jul 02 18:48	24° © 29'12	3°05'24	min. Earth dist.	15819 Jun 16 14:22	9° © 33'51	0.68993 AU
minimum elong	15818 Jul 02 18:03	24° © 31'49	3°04'33	inferior conj	15819 Jun 17 04:33	8°9545'08	2°51'35
min. Earth dist.	15818 Jul 02 17:39	24° © 33'13	0.69117 AU	minimum elong	15819 Jun 17 03:00	8°\$50'26	2°50'31
morning rise	15818 Jul 07 23:17	18°9514'57		morning rise	15819 Jun 22 10:18	2°539'02	
direct	15818 Jul 12 16:49	16°9515'24		direct	15819 Jun 26 15:38	0°959'04	
desc. node	15818 Jul 21 05:35	20°956'04		morning max el	15819 Jul 04 19:36	5°537'57	20°39'24
morning max el	15818 Jul 22 00:50	21°5643'04	21°59'16	desc. node	15819 Jul 08 02:48	9°514'17	
	15818 Jul 29 03:49	$0^{\circ}\Omega$			15819 Jul 23 05:45	$0^{\circ}\Omega$	
	15818 Aug 18 23:20	0° m		morning set	15819 Aug 03 05:41	16° Ω 38'51	
morning set	15818 Aug 23 16:25	7° m 25'12		max. Earth dist.	15819 Aug 11 17:36	0° My $02'28$	1.43728 AU
max. Earth dist.	15818 Aug 29 08:33	16° m 39'45	1.41739 AU		15819 Aug 11 17:00	0° m)	
superior conj	15818 Sep 06 02:40	29° m 54'45	-1°09'37	superior conj	15819 Aug 18 07:38	10° m 48'45	-1°43'17
minimum elong	15818 Sep 06 08:17	0° ჲ 19'27	1°08'52	minimum elong	15819 Aug 18 15:24	11° m)21'05	1°42'50
	15818 Sep 06 03:52	0∘ 亚			15819 Aug 29 12:18	0∘ ⊽	
asc. node	15818 Sep 14 14:09	15° ≏ 13'14		evening rise	15819 Aug 30 14:27	1° ≙ 54'43	
evening rise	15818 Sep 16 17:48	19° ≙ 11'40		asc. node	15819 Sep 01 10:49	5° ഫ 09'28	
	15818 Sep 22 16:12	0° M ₊		evening max el	15819 Sep 16 05:51	27° ≏ 42'56	18°01'27
evening max el	15818 Oct 02 16:39	14°M36'28	18°12'11		15819 Sep 19 02:24	0°M₊	
retrograde	15818 Oct 09 22:00	18° M ₁7'58		retrograde	15819 Sep 22 20:00	1°ML07'35	
evening set	15818 Oct 12 01:12	17° M ₅59'12		evening set	15819 Sep 25 06:45	0° M ₃38'54	
desc. node	15818 Oct 17 02:29	15° M ₊08'23			15819 Sep 26 15:07	30° ₹ Ω	
inferior conj	15818 Oct 19 09:50	13° M ₊13'37		inferior conj	15819 Oct 01 22:52	25° ≏ 33'42	
minimum elong	15818 Oct 19 08:15	13°M17'03	0°43'06	minimum elong	15819 Oct 01 23:59	25° ♀ 30'55	0°37'32
min. Earth dist.	15818 Oct 22 15:54	10°M26'19	0.59164 AU	desc. node	15819 Oct 03 23:50	23° △ 31'49	
morning rise	15818 Oct 26 11:55	7°M42'08		min. Earth dist.	15819 Oct 04 23:20	22° ₽ 35'02	0.61459 AU
direct	15818 Nov 01 23:32	5°M47'26	27027126	morning rise	15819 Oct 08 14:24	19° 2 34'46	
morning max el	15818 Nov 16 06:24	13°M29'48	27°37'26	direct	15819 Oct 15 06:34	17° £ 17'44	27050111
1	15818 Nov 29 10:33	0° द्र ⁷		morning max el	15819 Oct 29 11:04		27°59'11
asc. node	15818 Dec 11 14:55 15818 Dec 16 05:09	20° メ *49'20 0°る			15819 Nov 02 20:48 15819 Nov 22 21:54	0° ™ 0° <i>≯</i> 7	
marning sat	15818 Dec 17 21:07	0 8 3° る 29'41		asc. node	15819 Nov 28 11:55	0 x · 10° x 31'23	
morning set	13818 Dec 1/ 21.0/	3 02941		morning set	15819 Nov 28 11.55 15819 Dec 01 22:48	10 x ·31 23 17° x /30'24	
superior conj	15818 Dec 24 19:55	18° る 45'27	1°34'33	max. Earth dist.	15819 Dec 07 13:37	29° 🗷 32'20	1.31363 AU
minimum elong	15818 Dec 24 18:49	18° ろ 39'16	1°35'18	max. Earth dist.	15819 Dec 07 18:38	0°る	1.51505 AU
max. Earth dist.	15818 Dec 24 08:01	17° る 38'53	1.31020 AU		13017 Dec 07 10.30	v O	
max. Larm dist.	15818 Dec 29 21:08	0° ≈	1.51020 AC	superior conj	15819 Dec 09 06:08	3° ප 16'13	1°25'03
evening rise	15818 Dec 31 13:19	3° ≈ 38'16		minimum elong	15819 Dec 09 04:13	3° る 05'37	1°25'41
desc. node	15819 Jan 13 01:18	27° ≈ 46'45		evening rise	15819 Dec 15 22:59	18° පි 04'50	
	15819 Jan 14 09:28	0° ∀		<i>8</i>	15819 Dec 21 16:50	0° ≈	
evening max el	15819 Jan 29 14:40	19° ¥ 50'03	26°26'30	desc. node	15819 Dec 30 22:08	16° ≈ 13'54	
retrograde	15819 Feb 12 14:14	26° ¥ 58'25			15820 Jan 10 18:50	0°) €	
evening set	15819 Feb 18 22:32	25° ∺ 21'00		evening max el	15820 Jan 11 06:01	0° ∺ 26'59	25°03'25
min. Earth dist.	15819 Feb 23 04:05	22°) 43'33	0.58316 AU	retrograde	15820 Jan 25 01:30	7° ∺ 22'19	
inferior conj	15819 Feb 26 07:22	20°) 23′56	-3°29'55	evening set	15820 Jan 30 15:16	6°) 12'40	
minimum elong	15819 Feb 26 15:17	20°) €09'12	3°26'56	min. Earth dist.	15820 Feb 04 18:14	3° ¥ 28'19	0.56359 AU
morning rise	15819 Mar 06 11:22	15° ¥ 54'37		inferior conj	15820 Feb 07 08:18	1° ¥ 48′14	-4°54'48
direct	15819 Mar 08 10:40	15° ¥ 41′21		minimum elong	15820 Feb 07 17:35	1° ¥ 33'15	4°52'01
asc. node	15819 Mar 09 12:37	15° ¥ 45'30			15820 Feb 10 06:05	30° R ≈	
morning max el	15819 Mar 16 14:35	19°) 43′06	18°27'38	morning rise	15820 Feb 15 22:27	27° ≈ 40′22	
	15819 Mar 24 05:06	0° Y		direct	15820 Feb 18 01:30	27° ≈ 27'34	
morning set	15819 Apr 01 10:58	15° Y 03'13		asc. node	15820 Feb 24 10:01	29° ≈ 30'30	
	15819 Apr 09 07:51	0°B			15820 Feb 25 03:10	0° ∀	
				morning max el	15820 Feb 27 14:33	2° ∺ 06'19	19°19'59
superior conj	15819 Apr 10 15:13	2° 8 25'05	0°04'03	morning set	15820 Mar 15 12:18	29° ∺ 28′16	
minimum elong	15819 Apr 10 15:29	2° 8 26'17	0°03'38		15820 Mar 15 18:40	0° Y	
behind sun begin	15819 Apr 10 08:27	1° 8 53'56				• •	
behind sun end	15819 Apr 10 22:30	2° 8 58'33		superior conj	15820 Mar 23 17:21	15° ℃ 45'37	0°35'20
desc. node	15819 Apr 11 02:49	3° 8 18'20		minimum elong	15820 Mar 23 19:21	15° Y 55′20	0°34'51
max. Earth dist.	15819 Apr 18 02:58	15° 8 45'10	1.40570 AU	desc. node	15820 Mar 27 23:27	23° Y '50'57	1 20255 : **
evening rise	15819 Apr 22 09:48	22° 8 58'53		max. Earth dist.	15820 Mar 30 09:02	28° Y 15′29	1.38277 AU

	15820 Mar 31 08:12	0°B			15821 Mar 07 12:10	0° Ƴ	
evening rise	15820 Apr 03 02:09	4° 8 51'32		max. Earth dist.	15821 Mar 12 16:35	10° Υ 15'50	1.36066 AU
	15820 Apr 18 18:19	0°II		desc. node	15821 Mar 14 20:05	14° Y ′20′32	
evening max el	15820 May 08 09:52	25° Ⅱ 01'50	24°51'28	evening rise	15821 Mar 16 13:00	17° Ƴ 30'25	
C	15820 May 14 11:16	0ං ම		C	15821 Mar 23 15:42	$B_{\circ O}$	
retrograde	15820 May 20 05:41	1° © 55'42			15821 Apr 13 01:24	Π°	
asc. node	15820 May 22 07:18	1°537'41		evening max el	15821 Apr 20 23:28	8° Ⅱ 54'01	26°03'00
	15820 May 25 08:36	30°RⅡ		retrograde	15821 May 03 16:43	16° Ⅱ 11'44	
evening set	15820 May 25 22:51	29° Ⅱ 30'54		asc. node	15821 May 09 04:28	14° Ⅱ 12'05	
min. Earth dist.	15820 May 30 09:15	24° Ⅱ 30′14	0.68385 AU	evening set	15821 May 09 20:27	13° Ⅱ 40'35	
inferior conj	15820 May 31 12:22	23° Ⅱ 00′23	2°27'12	min. Earth dist.	15821 May 14 00:14	9° Ⅱ 15'42	0.67319 AU
minimum elong	15820 May 31 10:18	23° I 107'13	2°25'55	inferior conj	15821 May 15 16:16	7° Ⅱ 10'38	1°51'39
morning rise	15820 Jun 05 22:01	17° Ⅱ 03'33		minimum elong	15821 May 15 14:07	7° Ⅱ 17'22	1°50'17
direct	15820 Jun 09 15:43	15° Ⅱ 43'24		morning rise	15821 May 21 08:32	1° Ⅱ 24'21	
morning max el	15820 Jun 16 21:23	19° Ⅱ 42'57	19°32'17	direct	15821 May 24 15:27	0°Ⅱ22'48	10040141
desc. node	15820 Jun 23 23:56	28° Ⅱ 15'34 0° ⑤		morning max el desc. node	15821 May 31 06:09	3° Ⅱ 55'08 17° Ⅱ 48'30	18°40'41
greatest brilliancy	15820 Jun 25 06:18 15820 Jun 29 13:52	0 କ୍ତ 6°9511'03	-0.6m	desc. node	15821 Jun 10 20:58 15821 Jun 18 19:21	17 п 48 30	
morning set	15820 Jul 12 09:22	25°931'15	-0.0111	morning set	15821 Jun 21 23:35	0 ع 4°957'17	
morning set	15820 Jul 15 07:14	0°Ω		max. Earth dist.	15821 Jul 07 02:55	28°933'41	1.45904 AU
max. Earth dist.	15820 Jul 24 08:17		1.45160 AU	max. Earth dist.	15021 341 07 02.55	20 333 41	1.43704 710
man zam usu	10020 001 2. 00.17	1. 00001.	1.10100110	superior conj	15821 Jul 08 01:42	0° Ω 02'35	-2°13'57
superior conj	15820 Jul 28 13:16	20° Ω 45'18	-2°07'08	minimum elong	15821 Jul 08 00:30	29°957'52	
minimum elong	15820 Jul 28 19:05	21° Ω 08'32	2°07'26	Č	15821 Jul 08 01:03	$0^{\circ}\Omega$	
	15820 Aug 03 06:57	0° m)		evening rise	15821 Jul 23 14:37	24° Ω 32'01	
evening rise	15820 Aug 11 14:50	13° Mp 44'46			15821 Jul 27 00:55	0° m)	
asc. node	15820 Aug 18 07:29	24° m 52'16		greatest brilliancy	15821 Jul 30 06:04	5° Mp 06′27	-0.9m
	15820 Aug 21 12:00	0∘ ⊽		asc. node	15821 Aug 05 04:09	14° Mp 16'02	
evening max el	15820 Aug 29 20:42	11° ≏ 12'17	18°09'22	evening max el	15821 Aug 13 10:00	24° Mp 56'09	18°35'01
retrograde	15820 Sep 05 05:22	14° £ 33'15		retrograde	15821 Aug 19 22:12	28° m 26'33	
evening set	15820 Sep 08 00:44	13° £ 51′21	1020140	evening set	15821 Aug 23 02:46	27° m/28'52	2022110
inferior conj	15820 Sep 14 03:21	8° ₽ 29'08	1°39'40	inferior conj	15821 Aug 28 19:23	21° Mp 51'36	2°23'18
minimum elong	15820 Sep 14 05:35	8° £ 22'55	1°39'00	minimum elong	15821 Aug 28 21:38	21° Mp 44'44	2°22'34
min. Earth dist. desc. node	15820 Sep 16 16:45 15820 Sep 19 21:12	5° £ 38'53 2° £ 35'20	0.63673 AU	min. Earth dist. morning rise	15821 Aug 30 19:14 15821 Sep 03 15:20	19° Mp 25'57 15° Mp 27'07	0.65626 AU
morning rise	15820 Sep 20 08:29	2° ⊆ 33′20 2° ⊆ 12'58		desc. node	15821 Sep 06 18:36	13° My 29'02	
morning rise	15820 Sep 24 14:24	30°RM)		direct	15821 Sep 10 00:30	12° m) 49'23	
direct	15820 Sep 26 23:29	29° m) 41'02		morning max el	15821 Sep 23 07:29	20° m/39'05	26°54'42
	15820 Sep 29 10:48	0∘ ⊽			15821 Oct 01 09:29	0∘ ⊽	
morning max el	15820 Oct 10 20:23	7° ≏ 40'28	27°42'52		15821 Oct 21 04:58	0° M .	
-	15820 Oct 28 02:03	0°M₊		morning set	15821 Oct 29 00:07	14°ML13'41	
asc. node	15820 Nov 14 08:50	0° ∡ ¹27'45		asc. node	15821 Nov 01 05:38	20°M32'59	
	15820 Nov 14 03:15	0° ∡ ¹		max. Earth dist.	15821 Nov 02 03:18	22°M21'39	1.33751 AU
morning set	15820 Nov 14 16:46	1° ∡ ¹07'27			15821 Nov 05 20:29	0° ∡ ¹	
max. Earth dist.	15820 Nov 19 13:00	11° ∡ 07′23	1.32274 AU				
		_		superior conj	15821 Nov 06 14:41	1° ∡ ³35′26	0°47'50
superior conj	15820 Nov 22 13:09	17° ∡ 35′00	1°09'29	minimum elong	15821 Nov 06 12:31	1° ∡ °24′02	0°48'07
minimum elong	15820 Nov 22 10:49	17° ∡ 22′20	1°09'55	evening rise	15821 Nov 13 19:56	16° ₹ 57'29	
	15820 Nov 28 05:33	0°궁 2° 궁 32'51		J J.	15821 Nov 20 06:16	0°궁 19°궁58'22	
evening rise	15820 Nov 29 09:49 15820 Dec 14 03:14	2° ⊘ 32'31		desc. node evening max el	15821 Dec 03 16:03 15821 Dec 04 04:25	19° る 38°22	21°41'08
desc. node	15820 Dec 14 03:14 15820 Dec 16 19:03	0 ≈ 3°≈44'36		retrograde	15821 Dec 16 10:31	20 3 2918 26° る 32'50	21 41 06
evening max el	15820 Dec 10 15:50	10°≈28'59	23°22'23	evening set	15821 Dec 10 10:31 15821 Dec 19 13:30	26°පි10'48	
retrograde	15821 Jan 04 23:28	17°≈04'41	25 22 25	inferior conj	15821 Dec 28 05:12	22° ろ 20'22	-5°55'47
evening set	15821 Jan 09 09:23	16°≈22'30		minimum elong	15821 Dec 28 00:55	22° る 26'22	
min. Earth dist.	15821 Jan 16 02:33	13° ≈ 12'31	0.54966 AU	min. Earth dist.	15821 Dec 28 07:57		0.54401 AU
inferior conj	15821 Jan 17 13:10	12° ≈ 22'20		morning rise	15822 Jan 05 12:57	18° る 32'15	
minimum elong	15821 Jan 17 18:05	12° ≈ 15'12	5°50'45	direct	15822 Jan 09 05:59	18° る 02'11	
morning rise	15821 Jan 26 04:13	8° ≈ 30'18		morning max el	15822 Jan 21 19:49	24° る 07'42	22°12'39
direct	15821 Jan 28 21:19	8° ≈ 12'34			15822 Jan 27 00:08	0° ≈	
morning max el	15821 Feb 09 00:40	13° ≈ 35′20	20°35'31	asc. node	15822 Jan 28 04:41	1° ≈ 36′12	
asc. node	15821 Feb 10 07:23	14° ≈ 53'32		morning set	15822 Feb 12 06:10	28° ≈ 50'17	
	15821 Feb 20 14:54	0° ∀			15822 Feb 12 19:20	0° ∀	
morning set	15821 Feb 27 19:33	14° ∺ 06'43			15000 F 1 10 07 44	1201/5425	1010105
aumani '	15021 M 07 00 04	2001/2010	1900/27	superior conj	15822 Feb 19 07:44	13° ¥ 54'35	1°19'05
superior conj	15821 Mar 07 08:04	29° ¥ 39'06 29° ¥ 52'07	1°00'27 1°00'09	minimum elong max. Earth dist.	15822 Feb 19 10:01	14° 米 06'43 22° 米 05'24	1°19'07 1.34133 AU
minimum elong	15821 Mar 07 10:37	29 大 320/	1 00 09	max. Earui üist.	15822 Feb 23 06:08	22 X 05 24	1.34133 AU

	15022 E-L 27 05.20	0°Υ			15000 E-L 02 12.22	20024120	1921110
	15822 Feb 27 05:30			superior conj	15823 Feb 03 13:32	28°≈24'28	1°31'19
evening rise	15822 Feb 27 14:44	0° Y 44'38		minimum elong	15823 Feb 03 15:04	28° ≈ 32'49	1°31'43
desc. node	15822 Mar 01 16:42	4° Y '42'20			15823 Feb 04 07:06	0° ∀	
	15822 Mar 16 16:51	0° 8		max. Earth dist.	15823 Feb 06 03:25	3° ¥ 58'47	1.32612 AU
evening max el	15822 Apr 03 13:21	22° 8 35'59	26°58'36	evening rise	15823 Feb 11 04:00	14° ¥ 25′50	
	15822 Apr 15 15:26	Π \circ 0		desc. node	15823 Feb 16 13:21	24° ¥ 51'57	
retrograde	15822 Apr 16 21:56	0°耳05′13			15823 Feb 19 09:14	0 ° Υ	
	15822 Apr 18 03:46	30° ₹႘			15823 Mar 11 14:00	0° 8	
evening set	15822 Apr 23 10:33	27° 8 33'22		evening max el	15823 Mar 17 02:12	5° 8 55'50	27°30'47
asc. node	15822 Apr 26 01:42	25° 8 07'53		retrograde	15823 Mar 30 20:23	13° 8 26'55	
min. Earth dist.	15822 Apr 27 09:08	23° 8 42'26	0.65822 AU	evening set	15823 Apr 06 14:54	11° 8 00'53	
inferior conj	15822 Apr 29 13:56	21° 8 10'16	1°03'54	min. Earth dist.	15823 Apr 10 09:58	7° 8 40'26	0.63954 AU
minimum elong	15822 Apr 29 12:22	21° 8 14'48	1°02'45	asc. node	15823 Apr 12 23:00	5° 8 01'31	***************************************
morning rise	15822 May 05 15:37	15° 8 36'20	1 02 .0	inferior conj	15823 Apr 13 02:37	4° 8 52'03	0°02'51
direct	15822 May 08 12:44	14° 8 51'10		minimum elong	15823 Apr 13 02:32	_	0°02'25
morning max el	15822 May 14 20:26	18° 8 08'57	10005155	transit middle	15823 Apr 13 02:32	4° 8 52'15	0°02'25
morning max er	•	0°Ⅱ	18 03 33		•	5° 8 00'21	0 02 23
	15822 May 23 20:11			transit begin	15823 Apr 12 23:27		
desc. node	15822 May 28 17:55	7° Ⅱ 44'35		transit end	15823 Apr 13 05:38	4° 8 44'10	
morning set	15822 Jun 02 14:54	15° Ⅱ 36'56			15823 Apr 18 18:11	30° ₹ Υ	
	15822 Jun 11 13:58	0 \circ		morning rise	15823 Apr 19 16:29	29° Y 32'55	
				direct	15823 Apr 22 04:53	29° Y ′01'11	
superior conj	15822 Jun 17 11:47	9° © 19'49	-2°00'40		15823 Apr 25 15:09	0 \circ 8	
minimum elong	15822 Jun 17 04:09	8° 5 49'50	2°01'00	morning max el	15823 Apr 28 13:45	2° 8 16'38	17°48'25
max. Earth dist.	15822 Jun 19 23:34	13° © 13'48	1.45897 AU	morning set	15823 May 15 09:18	27° 8 33'36	
	15822 Jun 30 18:50	$0^{\circ}\Omega$		desc. node	15823 May 15 14:49	27° 8 56'56	
evening rise	15822 Jul 03 14:55	4° Ω 22'51			15823 May 16 19:55	Π° 0	
greatest brilliancy	15822 Jul 15 20:02	23° Ω 01'49	-0.7m				
	15822 Jul 20 15:31	0° mp		superior conj	15823 May 28 11:49	19° Ⅱ 18'48	-1°31'26
asc. node	15822 Jul 23 00:52	3° m 13'57		minimum elong	15823 May 28 03:34	18° Ⅱ 45'26	1°31'18
evening max el	15822 Jul 27 19:13	8° m) 47'39	19°17'27	max. Earth dist.	15823 Jun 02 19:19	27° Ⅱ 48'01	1.45147 AU
retrograde	15822 Aug 03 19:20	12° mp 40'28			15823 Jun 04 04:48	0°ಅ	
evening set	15822 Aug 07 09:40	11° m/ 25'26		evening rise	15823 Jun 13 02:10	13°9546'46	
inferior conj	15822 Aug 07 05:40 15822 Aug 12 19:38	5° m) 34'38	2°51'13	evening rise	15823 Jun 23 20:41	0°Ω	
minimum elong	•	5° m) 29'16	2°50'32	asc. node	15823 Jul 09 21:40	21° Ω 36'26	
	15822 Aug 12 21:17						20015112
min. Earth dist.	15822 Aug 14 05:19	3° m/44'46	0.67193 AU	evening max el	15823 Jul 10 22:38	22° Ω 41'00	20°15'13
	15822 Aug 17 10:14	30°R€		retrograde	15823 Jul 18 18:19	27° Ω 08'02	
morning rise	15822 Aug 18 08:17	29° Ω 08'15		evening set	15823 Jul 22 18:57	25° Ω 35'15	
direct	15822 Aug 24 08:10	26° £ 33′29		inferior conj	15823 Jul 28 01:21	-> 00	3°05'47
desc. node	15822 Aug 24 15:59	26° Ω 33'54		minimum elong	15823 Jul 28 02:06	19° Ω 29'37	
	15822 Sep 01 08:29	0° m)		min. Earth dist.	15823 Jul 28 21:07	18° Ω 24'40	0.68315 AU
morning max el	15822 Sep 05 18:45	3° m 58'47	25°43'27	morning rise	15823 Aug 02 08:55	13° Ω 08'18	
	15822 Sep 25 17:03	0∘ ত		direct	15823 Aug 07 21:33	10° Ω 43'30	
morning set	15822 Oct 11 17:24	26° ≏ 41'48		desc. node	15823 Aug 11 13:23	11° Ω 36′05	
	15822 Oct 13 12:25	0° M .		morning max el	15823 Aug 19 05:43	17° Ω 30′29	24°18'28
max. Earth dist.	15822 Oct 15 08:26	3° M 27′02	1.35723 AU		15823 Aug 29 16:31	0° m y	
asc. node	15822 Oct 19 02:22	10°M43'09			15823 Sep 18 17:31	0∘ ⊽	
				morning set	15823 Sep 23 16:30	8° ≏ 21'48	
superior conj	15822 Oct 21 08:02	15° M .11'14	0°20'17	max. Earth dist.	15823 Sep 27 07:46	14° £ 45'43	1.38027 AU
minimum elong	15822 Oct 21 06:52	15°ML05'18	0°20'35				
minimum crong	15822 Oct 28 12:57	0° ∡ 7	0 20 33	superior conj	15823 Oct 04 13:48	28° ₽ 13'27	0°12'27
evening rise	15822 Oct 28 12:37 15822 Oct 29 03:21	1° × 7'14'12		minimum elong	15823 Oct 04 14:38	28° ⊆ 17'26	
evening rise		1 x 14 12 0°る		behind sun begin	15823 Oct 04 14.58 15823 Oct 04 09:59	28 = 1720 27° ⊆ 55'08	0 11 36
	15822 Nov 15 04:15		2001.412.0	· ·			
evening max el	15822 Nov 16 04:34	1°る03'21	20°14'39	behind sun end	15823 Oct 04 19:17	28° △ 39'46	
desc. node	15822 Nov 20 13:08	4°る31'38			15823 Oct 05 11:56	0°M	
retrograde	15822 Nov 26 21:49	6° る 23'37		asc. node	15823 Oct 05 23:04	0° M 53′55	
evening set	15822 Nov 29 02:46	6° ට 11'06		evening rise	15823 Oct 13 05:35	15°M16'06	
inferior conj	15822 Dec 07 22:25	2° る 14'50			15823 Oct 20 23:33	0° ∡ ¹	
minimum elong	15822 Dec 07 12:33	2° る 29'29		evening max el	15823 Oct 29 19:13	12° ∡ ¹26′56	19°09'47
min. Earth dist.	15822 Dec 09 13:50	1° る 16'23	0.54778 AU	desc. node	15823 Nov 07 10:19	17° ∡ *01'13	
	15822 Dec 11 19:57	30°R. ✓		retrograde	15823 Nov 07 22:06	17° ∡ "01'59	
morning rise	15822 Dec 15 21:41	28° ∡ 11′52		evening set	15823 Nov 09 19:18	16° ∡ 751′04	
direct	15822 Dec 20 15:56	27° ∡ °22'55		inferior conj	15823 Nov 18 06:22	12° ∡ ³38'40	-3°23'54
	15822 Dec 29 01:14	ರ∘ರ		minimum elong	15823 Nov 17 22:02	12° ∡ 52'45	3°20'09
morning max el	15823 Jan 03 05:27	4°る03'52	24°02'09	min. Earth dist.	15823 Nov 20 23:55	10° ∡ ¹48'05	0.56018 AU
asc. node	15823 Jan 15 01:57	19° る 21'03		morning rise	15823 Nov 25 22:15	8° ∡ 103'39	
	15823 Jan 21 02:43	0° ≈		direct	15823 Dec 01 13:13	6° х 50'34	
morning set	15823 Jan 27 18:06	13° ≈ 33'28		morning max el	15823 Dec 15 15:17	14° × 00'33	25°46'34
	10020 0011 27 10.00	15 . 4.55 20			10020 000 10 10.17	1. 7. 00 33	20 1004

	15823 Dec 28 05:41	0°₹		aga mada	15824 Dec 18 20:16	26° ₹ 58'57	
1		0 る 7° る 52'47		asc. node		20 x・3837 0°る	
asc. node	15824 Jan 01 23:09				15824 Dec 20 10:15	_	
morning set	15824 Jan 12 05:34	28° ට 11'23		morning set	15824 Dec 26 14:43	12° る 38'33	
	15824 Jan 13 01:38	0° ≈					
				superior conj	15825 Jan 02 10:27	27° ප් 41'57	
superior conj	15824 Jan 18 23:08	13° ≈ 02'27	1°37'20	minimum elong	15825 Jan 02 09:55	27° る 38'57	
minimum elong	15824 Jan 18 23:39	13° ≈ 05′21	1°38'00	max. Earth dist.	15825 Jan 02 14:21	28° る 03'45	1.31062 AU
max. Earth dist.	15824 Jan 20 07:07	15° ≈ 59'40	1.31574 AU		15825 Jan 03 11:07	0° ≈	
evening rise	15824 Jan 26 01:56	28° ≈ 27'21		evening rise	15825 Jan 09 06:02	12° ≈ 42'40	
	15824 Jan 26 19:48	0° ∀			15825 Jan 17 22:36	0° ∀	
desc. node	15824 Feb 03 10:02	14°)(44'04		desc. node	15825 Jan 20 06:45	4°){ 11′01	
	15824 Feb 12 14:06	$0^{\circ}\mathbf{\Upsilon}$			15825 Feb 07 23:27	$0^{\circ}\Upsilon$	
evening max el	15824 Feb 27 11:57	18° Ƴ 41'14	27°33'01	evening max el	15825 Feb 08 16:11	0° Υ 40'27	27°00'52
retrograde	15824 Mar 12 11:14	26° Y 07'26		retrograde	15825 Feb 22 17:00	7° Y 56'37	
evening set	15824 Mar 19 06:57	23° Y 54'41		evening set	15825 Mar 01 07:26	6° Y ′04'45	
min. Earth dist.	15824 Mar 23 01:17	20°Υ58'42	0.61814 AU	min. Earth dist.	15825 Mar 05 06:26	3°Υ23'50	0.59565 AU
		18° Y $08'04$				0° Υ 47'52	
inferior conj	15824 Mar 26 03:08			inferior conj	15825 Mar 08 11:43		
minimum elong	15824 Mar 26 05:38	18° Y 02'14	1°10'56	minimum elong	15825 Mar 08 17:42	0° Y 35'45	2°35'32
asc. node	15824 Mar 29 20:22	14° Y 58'10			15825 Mar 09 11:34	30° ₹	
morning rise	15824 Apr 02 07:30	13° Y 06′28		morning rise	15825 Mar 16 07:31	26° ∺ 06'11	
direct	15824 Apr 04 12:31	12° Ƴ 44'50		asc. node	15825 Mar 16 17:46	26°) €00′28	
morning max el	15824 Apr 11 07:05	16° Ƴ 09'37	17°48'37	direct	15825 Mar 18 07:33	25°) 51′02	
	15824 Apr 21 01:41	0°B		morning max el	15825 Mar 25 20:50	29°) 36′32	18°07'33
morning set	15824 Apr 27 02:03	10° 8 32'48		Č	15825 Mar 26 06:12	$0^{\circ}\mathbf{Y}$	
desc. node	15824 May 01 11:37	18° 8 20'30		morning set	15825 Apr 10 11:10	24° Υ 16'08	
dese. Hode	13021 May 01 11.57	10 02030		morning sec	15825 Apr 13 12:56	0°8	
aumorior aoni	15024 May 00 10-24	0°Т21!20	0054121	desc. node	•	8° 8 50'17	
superior conj	15824 May 08 10:34	0° Ⅱ 21'20		desc. node	15825 Apr 18 08:21	8-03017	
minimum elong	15824 May 08 05:33	0° Ⅱ 00'07	0°54'15				
	15824 May 08 05:32	0°II		superior conj	15825 Apr 20 08:13	12° 8 25'22	
max. Earth dist.	15824 May 15 11:24	11° Ⅱ 59'14	1.43738 AU	minimum elong	15825 Apr 20 06:51	12° 8 19'18	0°16'39
evening rise	15824 May 22 17:00	23° Ⅲ 27′02		max. Earth dist.	15825 Apr 27 22:37	25° 8 34'13	1.41821 AU
	15824 May 26 23:14	0°ಅ			15825 Apr 30 14:44	Π $^{\circ}0$	
	15824 Jun 17 01:52	$0^{\circ}\Omega$		evening rise	15825 May 03 00:16	3° Ⅲ 53'52	
evening max el	15824 Jun 22 20:04	6° Ω 34'27	21°25'40		15825 May 20 06:14	0°ಲಾ	
asc. node	15824 Jun 25 18:33	9° Ω 11'53		evening max el	15825 Jun 05 12:47	20° © 28'09	22°44'38
retrograde	15824 Jul 01 17:09	11° Ω 43'59		asc. node	15825 Jun 12 15:32	25°5944'37	
evening set	15824 Jul 06 04:42	9°Ω54'00		retrograde	15825 Jun 15 14:11	26°©22'11	
•	15824 Jul 11 10:14	3° Ω 40'16	3°08'39	Č	15825 Jun 20 13:10	24°9316'36	
inferior conj				evening set			2000140
minimum elong	15824 Jul 11 10:01	3° Ω 41'01	3°07'54	inferior conj	15825 Jun 25 20:12	17° © 54'09	
min. Earth dist.	15824 Jul 11 16:37	3° Ω 17'58	0.68962 AU	minimum elong	15825 Jun 25 19:05	17° © 58'01	2°59'53
	15824 Jul 14 03:50	30° ₹ 5		min. Earth dist.	15825 Jun 25 13:33	18° © 17'16	0.69120 AU
morning rise	15824 Jul 16 15:06	27° © 21'42		morning rise	15825 Jul 01 00:53	11° © 42'57	
direct	15824 Jul 21 15:37	25°©11'57		direct	15825 Jul 05 13:11	9° © 51'28	
desc. node	15824 Jul 28 10:44	28° © 11'49		morning max el	15825 Jul 14 08:48	14° © 58'03	21°23'55
	15824 Jul 30 12:39	$0^{\circ}\Omega$		desc. node	15825 Jul 15 08:00	15°957'40	
morning max el	15824 Jul 31 17:31	1° Ω 10′11	22°49'09		15825 Jul 26 11:08	$0^{\circ}\Omega$	
	15824 Aug 22 13:24	0° m/		morning set	15825 Aug 14 18:22	28° Ω 47'05	
morning set	15824 Sep 03 17:22	19° m 04'43		morning sec	15825 Aug 15 12:52	0° m)	
max. Earth dist.	15824 Sep 08 07:11	26° Mp 43'19	1.40426 AU	max. Earth dist.	15825 Aug 13 12:52 15825 Aug 21 11:54	-•	1.42640 AU
max. Earth dist.	•	-	1.40420 AU	max. Earth dist.	13623 Aug 21 11.34	9 IJ 34 39	1.42040 AU
	15824 Sep 10 05:03	0∘ ಹ			15025 4 20 22 10	220 m- 01101	1024127
				superior conj	15825 Aug 28 22:10	22° Mp 01'01	
superior conj	15824 Sep 16 03:58	10° £ 33'07		minimum elong	15825 Aug 29 04:58	22° m 30'15	1°23'56
minimum elong	15824 Sep 16 07:44	10° £ 50′16	0°47'50		15825 Sep 02 12:12	0∘ ರ	
asc. node	15824 Sep 21 19:43	21° ≏ 01'55		asc. node	15825 Sep 08 16:22	11° ≏ 03'39	
evening rise	15824 Sep 25 23:35	28° ≏ 55'31		evening rise	15825 Sep 09 05:25	12° ഫ 02'38	
	15824 Sep 26 13:10	0°M₊			15825 Sep 19 14:19	0° M	
evening max el	15824 Oct 11 22:02	24°M38'23	18°27'11	evening max el	15825 Sep 25 08:45	7°M28'30	18°05'18
retrograde	15824 Oct 19 17:07	28°M35'45		retrograde	15825 Oct 02 06:16	11° M 00'49	
evening set	15824 Oct 21 16:41	28°M21'08		evening set	15825 Oct 04 12:33	10°M38'16	
desc. node	15824 Oct 24 07:36	27°M20'46		desc. node	15825 Oct 04 12:55	6°M04'53	
			1920141				0007106
inferior conj	15824 Oct 29 11:34	23°M48'08		inferior conj	15825 Oct 11 13:55	5°M44'20	
minimum elong	15824 Oct 29 07:40	23°M55'51	1°37'29	minimum elong	15825 Oct 11 13:41	5°M44'51	0°06'36
min. Earth dist.	15824 Nov 01 16:59	21°M16'07	0.57906 AU	transit middle	15825 Oct 11 13:41	5° M 44'51	0°06'36
morning rise	15824 Nov 05 19:11	18°M36'00		transit begin	15825 Oct 11 10:39	5°M51'50	
direct	15824 Nov 12 01:14	16°M55'50		transit end	15825 Oct 11 16:44	5°M37'52	
morning max el	15824 Nov 26 07:48	24°M28'46	27°07'00	min. Earth dist.	15825 Oct 14 18:41	2°M49'30	0.60140 AU
	15824 Dec 01 09:28	0° ∡ ¹		morning rise	15825 Oct 18 11:36	0°M00'10	
				-			

	15825 Oct 18 11:43	30° ₽ Ω		morning rise	15826 Sep 30 21:04	12° £ 13'06	
direct	15825 Oct 25 02:10	27° £ 54'53		direct	15826 Oct 07 13:29	9° £ 48'51	
ancer	15825 Nov 01 01:43	0°M		morning max el	15826 Oct 21 15:06	17° Ω 46'31	27°56'36
morning max el	15825 Nov 08 08:17	5° M 43'57	27°51'26		15826 Oct 31 21:08	0°M	_, _,
5 5	15825 Nov 26 12:32	0° ∡ 7			15826 Nov 19 07:58	0° ⊼	
asc. node	15825 Dec 05 17:18	16° ∡ ³30′12		asc. node	15826 Nov 22 14:14	6° ∡ 18'48	
morning set	15825 Dec 10 19:43	26° ₹ ′50'33		morning set	15826 Nov 24 18:24	10° ∡ ′41'33	
	15825 Dec 12 07:23	8°0		max. Earth dist.	15826 Nov 30 01:06	21° ₹ ′50′38	1.31691 AU
max. Earth dist.	15825 Dec 16 21:37	10° る 03'55	1.31098 AU				
				superior conj	15826 Dec 02 06:44	26° ₹ ¹44'01	1°19'13
superior conj	15825 Dec 17 21:38	12° る 17'50	1°31'17	minimum elong	15826 Dec 02 04:36	26° ₹ 32'12	1°19'44
minimum elong	15825 Dec 17 20:09	12° る 09'34	1°31'58		15826 Dec 03 18:15	ರ°0	
evening rise	15825 Dec 24 14:16	27° る 06'58		evening rise	15826 Dec 09 00:40	11° る 34'46	
	15825 Dec 25 22:35	0° ≈			15826 Dec 18 05:07	0° ≈	
desc. node	15826 Jan 07 03:33	23° ≈ 03'33		desc. node	15826 Dec 25 00:24	11° ≈ 08′26	
	15826 Jan 11 16:19	0° ∀		evening max el	15827 Jan 03 01:05	22° ≈ 06′21	24°21'32
evening max el	15826 Jan 21 12:40	11°) √ 47′28	25°54'26	retrograde	15827 Jan 16 16:21	28° ≈ 53'33	
retrograde	15826 Feb 04 11:20	18° ¥ 50′18		evening set	15827 Jan 21 19:29	27° ≈ 56′02	
evening set	15826 Feb 10 12:40	17°) €24'48		min. Earth dist.	15827 Jan 27 12:49	25°≈03'19	
min. Earth dist.	15826 Feb 15 01:45		0.57434 AU	inferior conj	15827 Jan 29 16:47	23° ≈ 43'52	
inferior conj	15826 Feb 18 00:52	12°) (42′02		minimum elong	15827 Jan 30 01:04	23° ≈ 31'12	5°21'53
minimum elong	15826 Feb 18 09:49	12°) €26′20	4°04'32	morning rise	15827 Feb 07 08:35	19° ≈ 43'39	
morning rise	15826 Feb 26 10:00	8°) €21'40		direct	15827 Feb 09 16:30	19° ≈ 29'23	
direct	15826 Feb 28 09:47	8° 光 09'09 8° 光 43'48		asc. node	15827 Feb 18 12:30	23°≈11'45	10040115
asc. node	15826 Mar 03 15:09		10047102	morning max el	15827 Feb 19 21:16	24°≈26'08	19°49'15
morning max el	15826 Mar 09 02:57	12°) 25′56 0° Υ	18°47'03	marning gat	15827 Feb 24 14:11	0° \ 23° \ 00'58	
morning set	15826 Mar 20 21:20 15826 Mar 25 07:43	8° Υ 29'13		morning set	15827 Mar 09 11:55 15827 Mar 12 22:23	23°π0038 0°Υ	
morning set	13820 Widi 23 07.43	0 1 29 13			1362/ Widi 12 22.23	0 1	
superior conj	15826 Apr 03 01:12	25° Y ′21'02	0°18'02	superior conj	15827 Mar 17 09:08	8° Y 56'34	0°46'47
minimum elong	15826 Apr 03 02:21	25° Y '26'31	0°17'33	minimum elong	15827 Mar 17 11:30	9° Y 08'16	0°46'21
desc. node	15826 Apr 05 05:01	29° Y ′22'43		desc. node	15827 Mar 23 01:39	19° Y ′54'15	
	15826 Apr 05 13:06	9° 8		max. Earth dist.	15827 Mar 23 12:33	20° Y '45'03	1.37316 AU
max. Earth dist.	15826 Apr 10 06:02	8° 8 28'04	1.39603 AU	evening rise	15827 Mar 27 05:22	27° Y ′29'25	
evening rise	15826 Apr 14 04:44	15° 8 16'16			15827 Mar 28 15:26	0° 8	
	15826 Apr 23 07:09	Π °0			15827 Apr 16 17:14	Π °0	
	15826 May 15 01:16	0		evening max el	15827 May 01 16:27	18° Ⅱ 17'21	25°23'26
evening max el	15826 May 19 02:58	4° © 22'54	24°06'12	retrograde	15827 May 13 21:46	25° Ⅱ 22'12	
retrograde	15826 May 30 08:02	10° © 56'55		asc. node	15827 May 17 09:41	24° Ⅱ 31'45	
asc. node	15826 May 30 12:35	10° © 56'46		evening set	15827 May 19 19:43	22° ∏ 54'00	
evening set	15826 Jun 04 18:42	8° © 38'11		min. Earth dist.	15827 May 24 03:07	18° ∏ 08'58	0.67987 AU
min. Earth dist.	15826 Jun 09 09:45	3° © 16'15	0.68792 AU	inferior conj	15827 May 25 11:44	16° Ⅲ 23'21	2°13'33
inferior conj	15826 Jun 10 05:20	2°509'48	2°42'33	minimum elong	15827 May 25 09:35	16° Ⅲ 30′22	2°12'13
minimum elong	15826 Jun 10 03:32	2°515'56	2°41'23	morning rise	15827 May 30 23:52	10° Ⅱ 31'01	
	15826 Jun 11 20:21	30°RⅡ 260₩07/22		direct	15827 Jun 03 12:58	9° Ⅱ 18'53	10000106
morning rise	15826 Jun 15 12:24	26° Ⅱ 07'23		morning max el	15827 Jun 10 11:09	13° Ⅱ 04'51	19°08'26
direct	15826 Jun 19 12:47 15826 Jun 27 06:16	24° П 35'40 28° П 56'12	2000002	desc. node	15827 Jun 19 02:17	23° Ⅱ 51'06 0° ©	
morning max el	15826 Jun 28 07:10	0°95	20 09 03	greatest brilliancy	15827 Jun 23 07:17 15827 Jun 23 08:18	0°503'49	-0.7m
desc. node	15826 Jul 02 05:12	4° 9 35'15		morning set	15827 Jul	16°\$45'40	-0.7111
desc. Hode	15826 Jul 19 23:21	4 3 33 13		morning set	15827 Jul 12 20:27	0°Ω	
morning set	15826 Jul 25 01:19	7° Ω 45'05		max. Earth dist.	15827 Jul 17 16:57		1.45564 AU
max. Earth dist.	15826 Aug 03 23:40	23° Ω 16'27	1.44415 AU	max. Earth tist.	13027 341 17 10.37	7 003427	1.43304710
max. Dartii dist.	15826 Aug 08 04:11	0° m)	1.11113 110	superior conj	15827 Jul 20 14:03	12° Ω 05'54	-2°12'27
	13020 11 u g 00 0 1.11	עייי		minimum elong	15827 Jul 20 17:20	12°Ω18'53	
superior conj	15826 Aug 09 17:03	2° m 29'53	-1°55'03		15827 Jul 31 18:44	0° m)	~ *-
minimum elong	15826 Aug 10 00:40	3° m, 00'58		evening rise	15827 Aug 04 08:23	5° Mp 48'46	
evening rise	15826 Aug 22 18:03	24° m/24'22		asc. node	15827 Aug 13 09:40	20° m/30'01	
Č	15826 Aug 26 00:16	0∘ <u>∿</u>			15827 Aug 19 19:57	0∘ <u>⊽</u>	
asc. node	15826 Aug 26 13:01	0° ჲ 54'31		evening max el	15827 Aug 23 13:40	4° ഫ 22'22	18°18'06
evening max el	15826 Sep 08 23:08	20° ≏ 46′02	18°02'37	retrograde	15827 Aug 29 22:45	7° ≏ 45'52	
retrograde	15826 Sep 15 09:36	24° ≏ 07'11		evening set	15827 Sep 01 21:59	6° £ 57'24	
evening set	15826 Sep 18 00:04	23° م 33'05		inferior conj	15827 Sep 07 19:53	1° ≏ 28'14	2°00'15
inferior conj	15826 Sep 24 10:00	18° ≏ 20'15	1°06'21	minimum elong	15827 Sep 07 22:13	1° ≏ 21'25	1°59'31
minimum elong	15826 Sep 24 11:46	18° ≏ 15'38	1°05'55		15827 Sep 09 02:07	30°₽,₩)	
min. Earth dist.	15826 Sep 27 06:09	15° ≏ 23'14	0.62428 AU	min. Earth dist.	15827 Sep 10 03:33	28° m 47'04	0.64542 AU
desc. node	15826 Sep 28 02:17	14° ≏ 34'01		morning rise	15827 Sep 13 20:55	25° m 07'32	

desc. node	15827 Sep 14 23:40	24° Mp 18'35		minimum elong	15828 Aug 21 17:51	14° m 53'35	2°36'12
direct	15827 Sep 20 09:46	22° m/32'23		min. Earth dist.	15828 Aug 23 09:37	12° m/ 48'25	0.66336 AU
	15827 Oct 03 13:59	0ಂ ರ		morning rise	15828 Aug 27 08:22	8° m) 33'46	
morning max el	15827 Oct 04 01:39	0° ჲ 28'59	27°25'52	desc. node	15828 Aug 31 21:05	6° Mp 07'24	
S	15827 Oct 25 22:11	0°M₊		direct	15828 Sep 02 13:45	5° m) 56'21	
morning set	15827 Nov 08 08:15	24°M06'15		morning max el	15828 Sep 15 13:14	13° m/38'22	26°26'45
asc. node	15827 Nov 09 11:06	26°M19'21		-	15828 Sep 28 20:20	0∘ ⊽	
	15827 Nov 11 06:48	0° ∡ ¹			15828 Oct 17 15:07	0° M	
max. Earth dist.	15827 Nov 12 21:12	3° ҂ 17'52	1.32844 AU	morning set	15828 Oct 21 10:10	6° ™ 57'44	
				max. Earth dist.	15828 Oct 25 07:27	14°M26'17	1.34530 AU
superior conj	15827 Nov 16 11:43	10° ∡ 55′25	1°01'02	asc. node	15828 Oct 26 07:54	16° ™ 27'10	
minimum elong	15827 Nov 16 09:22	10° х 42'49	1°01'24				
evening rise	15827 Nov 23 11:26	26° ∡ *01'54		superior conj	15828 Oct 30 10:09	24°M46'15	0°36'50
	15827 Nov 25 08:22	0° ろ		minimum elong	15828 Oct 30 08:18	24°M36'37	0°37'07
desc. node	15827 Dec 11 21:20	28° る 08'55			15828 Nov 01 22:18	0° ∡ ¹	
	15827 Dec 13 11:42	0°≈ 20× -01153	22020105	evening rise	15828 Nov 06 20:42	10° ₹ 23'51	
evening max el	15827 Dec 15 10:39	2°≈01'53	22°38'05	·	15828 Nov 17 00:44	0°る	2100200
retrograde	15827 Dec 28 09:01 15828 Jan 01 05:41	8°≈25'59 7°≈53'23		evening max el desc. node	15828 Nov 26 03:21 15828 Nov 27 18:22	12°る13'37 13°る43'33	21°02'00
evening set min. Earth dist.	15828 Jan 08 19:07	7 ≈33 23 4°≈26'44	0.54618 AU	retrograde	15828 Dec 07 19:10	13 043 33 18° る 00'15	
inferior conj	15828 Jan 09 14:46	3°≈59'01		evening set	15828 Dec 10 10:45	18 3 0013	
minimum elong	15828 Jan 09 15:58	3°≈57'19	6°00'21	inferior conj	15828 Dec 19 05:37	17 さ 4337	-5°38'37
morning rise	15828 Jan 18 03:26	0°≈11'02	0 0021	minimum elong	15828 Dec 18 22:03	13 3 52 12	
morning not	15828 Jan 19 01:42	30°Rる		min. Earth dist.	15828 Dec 20 00:41	13° る 25'06	0.54441 AU
direct	15828 Jan 21 05:55	29° る 49'04		morning rise	15828 Dec 27 09:31	9° る 59'56	
	15828 Jan 23 09:05	0° ≈		direct	15828 Dec 31 13:15	9° る 22'42	
morning max el	15828 Feb 02 00:51	5° ≈ 30'01	21°14'38	morning max el	15829 Jan 13 15:12	15° る 44'52	22°58'34
asc. node	15828 Feb 05 09:51	9° ≈ 10'42		asc. node	15829 Jan 22 07:09	26° る 22'23	
	15828 Feb 18 02:21	0° ∀			15829 Jan 24 14:58	0° ≈	
morning set	15828 Feb 21 20:52	7°) 42′19		morning set	15829 Feb 05 08:19	22° ≈ 26′53	
					15829 Feb 08 20:29	0°) €	
superior conj	15828 Feb 29 04:03	23° ∺ 00'32	1°09'09				
minimum elong	15828 Feb 29 06:35	23° ¥ 13'37	1°08'59	superior conj	15829 Feb 12 06:44	7°) €23'54	
	15828 Mar 03 14:23	0° Υ		minimum elong	15829 Feb 12 08:45	7°) (34'43	
max. Earth dist.	15828 Mar 04 22:18	2° Y 38'42	1.35196 AU	max. Earth dist.	15829 Feb 15 14:55	14°) €28'07	1.33428 AU
evening rise	15828 Mar 08 22:57	10° ℃ 23'59		evening rise	15829 Feb 20 06:03	23°) ₹51′20	
desc. node	15828 Mar 08 22:15	10° Y 20'43			15829 Feb 23 10:44	0°Υ 0° Υ	
	15828 Mar 20 04:42	0°¤ 8°0		desc. node	15829 Feb 23 18:53	0° Y 38'14 0° と	
evening max el	15828 Apr 11 04:47 15828 Apr 13 06:01	0 П 2°П05'23	26°29'02	evening max el	15829 Mar 13 18:51 15829 Mar 26 19:31	15° 8 39'05	27°15'29
retrograde	15828 Apr 26 06:25	2 П 03 23 9° П 29'43	20 29 02	retrograde	15829 Apr 09 09:09	23° 8 11'03	27 13 29
evening set	15828 May 02 14:22	6° I I57'10		evening set	15829 Apr 16 00:39	20° 8 40'39	
asc. node	15828 May 03 06:53	6° Ⅱ 21'47		min. Earth dist.	15829 Apr 19 21:23	17° 8 03'12	0.65067 AU
min. Earth dist.	15828 May 06 15:37	2° Ⅱ 47'22	0.66730 AU	asc. node	15829 Apr 20 04:09	16° 8 44'54	
inferior conj	15828 May 08 13:16	0° Ⅱ 29'20	1°32'57	inferior conj	15829 Apr 22 07:29	14° 8 22'19	0°39'42
minimum elong	15828 May 08 11:16	0° Ⅲ 35'23	1°31'38	minimum elong	15829 Apr 22 06:25	14° 8 25'17	0°38'46
	15828 May 08 22:58	30° ₹ 8		morning rise	15829 Apr 28 14:03	8° 8 54'28	
morning rise	15828 May 14 09:13	24° 8 48'22		direct	15829 May 01 07:12	8° 8 15'34	
direct	15828 May 17 11:48	23° 8 54'13		morning max el	15829 May 07 14:34	11° 8 31'12	17°56'17
morning max el	15828 May 23 22:37	27° 8 18'46	18°23'54		15829 May 20 15:05	Π °0	
	15828 May 26 09:54	0 ° Π		desc. node	15829 May 22 20:14	3° Ⅱ 38′00	
desc. node	15828 Jun 04 23:18	13° Ⅱ 34'26		morning set	15829 May 25 10:02	7° Ⅱ 52'36	
morning set	15828 Jun 13 06:57	26° ∏ 39'48			15829 Jun 08 01:36	0ಂಣ	
	15828 Jun 15 09:36	0ං ව		superior coni	15920 Jun 09 12-27	0.00547120	1940!46
superior conj	15828 Jun 28 23:16	21°©16'56	-2°10'//1	superior conj minimum elong	15829 Jun 08 13:37 15829 Jun 08 05:00	0°547'39 0°513'29	
minimum elong	15828 Jun 28 18:47	20°959'29		max. Earth dist.	15829 Jun 12 08:36	6°9346'02	1.45663 AU
max. Earth dist.	15828 Jun 29 12:43	20 3 3929	1.45987 AU	evening rise	15829 Jun 24 14:20	25°\$42'56	1.15005 AU
Zurur dist.	15828 Jul 04 13:31	0°Ω	2	5.018 1100	15829 Jun 27 09:34	0°Ω	
evening rise	15828 Jul 14 21:33	16° Ω 09'35		greatest brilliancy	15829 Jul 08 14:45	16° Ω 50'52	-0.6m
5 .	15828 Jul 23 18:09	0° m)		asc. node	15829 Jul 17 03:07	28° Ω 27'15	
greatest brilliancy	15828 Jul 24 05:46	0° m/44'43	-0.8m		15829 Jul 18 10:42	0° m/y	
asc. node	15828 Jul 30 06:22	9° m 43′28		evening max el	15829 Jul 20 08:14	2°M/01'31	19°40'21
evening max el	15828 Aug 06 01:24	18° m 09'21	18°51'04	retrograde	15829 Jul 27 16:01	6° ™ 07'49	
retrograde	15828 Aug 12 17:52	21° m 48'11		evening set	15829 Jul 31 10:34	4° Mp 45′26	
evening set	15828 Aug 16 02:25	20° m 43'22			15829 Aug 04 21:22	30°R Ω	
inferior conj	15828 Aug 21 15:48	15° Mp 00'02	2°36'55	inferior conj	15829 Aug 05 18:41	28° Ω 49'25	2°58'54

minimum elong	15829 Aug 05 19:58	28° Ω 45'07	2°58'15	evening set	15830 Jul 15 20:15	18° Ω 59'15	
min. Earth dist.	15829 Aug 06 22:29	27° Ω 16′38	0.67724 AU	inferior conj	15830 Jul 21 01:59	12° Ω 51'45	3°08'19
morning rise	15829 Aug 11 04:52	22° Ω 23′29		minimum elong	15830 Jul 21 02:20	12° Ω 50'33	3°07'39
direct	15829 Aug 17 00:11	19° Ω 51'53		min. Earth dist.	15830 Jul 21 16:04	12° Ω 03′05	0.68652 AU
desc. node	15829 Aug 18 18:30	20° Ω 04'06		morning rise	15830 Jul 26 08:07	6° Ω 29'56	
morning max el	15829 Aug 29 00:13	27° Ω 03'07	25°08'21	direct	15830 Jul 31 15:47	4° Ω 10'48	
Ü	15829 Aug 31 18:21	0° m)		desc. node	15830 Aug 05 15:53	5° Ω 49'00	
	15829 Sep 22 11:10	0∘ <u>v</u>		morning max el	15830 Aug 11 11:04	10° Ω 37'30	23°40'27
morning set	15829 Oct 03 20:15	19° ഫ 06'24			15830 Aug 26 20:59	0° m)	
max. Earth dist.	15829 Oct 07 08:58	25° ₽ 31'22	1.36664 AU	morning set	15830 Sep 15 10:17	0° £ 22'40	
max. Earth dist.	15829 Oct 07 08:38 15829 Oct 09 18:15	0°M	1.30004 AU	morning set		0° <u>₽</u>	
		6°M37'47		max. Earth dist.	15830 Sep 15 04:54		1.39051 AU
asc. node	15829 Oct 13 04:37	0 1163/4/		max. Earm dist.	15830 Sep 19 07:32	/ ==033/	1.39031 AU
	15020 0 + 12 22 02	00 m 00127	0007150		15020 0 26 22 45	200 0 5 4110	0027120
superior conj	15829 Oct 13 23:03	8°M08'37	0°06'59	superior conj	15830 Sep 26 22:45	20° £ 54'10	
minimum elong	15829 Oct 13 22:36	8°M06'21	0°07'20	minimum elong	15830 Sep 27 00:44	21° Ω 03'28	0°26'54
behind sun begin	15829 Oct 13 16:48	7° ™ 37'47		asc. node	15830 Sep 30 01:17	26° ≏ 47'49	
behind sun end	15829 Oct 14 04:23	8°M34'59			15830 Oct 01 17:09	0° M	
evening rise	15829 Oct 22 02:13	24°M34'35		evening rise	15830 Oct 06 01:22	8° ™ 27'49	
	15829 Oct 24 18:56	0° ∡ ¹			15830 Oct 18 05:30	0° ∡ ¹	
evening max el	15829 Nov 08 09:51	23° ∡ ¹08'35	19°44'27	evening max el	15830 Oct 22 06:13	4° ∡ ¹53'27	18°49'04
desc. node	15829 Nov 14 15:31	27° ∡ ¹26'48		retrograde	15830 Oct 30 18:08	9° ∡ 10'47	
retrograde	15829 Nov 18 10:22	28° ∡ 08'49		evening set	15830 Nov 01 15:44	8° ₹ 758'44	
evening set	15829 Nov 20 10:23	27° ∡ 757'46		desc. node	15830 Nov 01 12:45	9° √ 00'14	
inferior conj	15829 Nov 29 03:50	23° ₹ '56'05	-4°21'52	inferior conj	15830 Nov 09 20:24	4° ∡ ³37'43	-2°39'15
minimum elong	15829 Nov 28 17:55	24°×711'31		minimum elong	15830 Nov 09 13:53	4° × ⁷ 49'29	
min. Earth dist.	15829 Dec 01 08:16	22° × ⁷ 34'29	0.55206 AU	min. Earth dist.	15830 Nov 12 20:43	2° × ¹ 27'55	0.56761 AU
	15829 Dec 06 23:52	19° × ⁷ 40'51	0.33200 AU	iiiii. Eartii uist.		2 × 27 33 30°RM	0.50701 AU
morning rise					15830 Nov 16 22:23		
direct	15829 Dec 12 03:47	18° × 41'52	24040112	morning rise	15830 Nov 17 09:02	29°M47'17	
morning max el	15829 Dec 25 23:42	25° ∡ 36′27	24°48'12	direct	15830 Nov 23 07:25	28°M22'46	
	15829 Dec 30 02:30	0°る			15830 Nov 29 17:47	0° ⊼	
asc. node	15830 Jan 09 04:24	14° る 28'52		morning max el	15830 Dec 07 11:39	5° ∡ 42'22	26°24'35
	15830 Jan 17 10:54	0° ≈			15830 Dec 25 05:31	0°రె	
morning set	15830 Jan 20 20:16	7° ≈ 08'13		asc. node	15830 Dec 27 01:36	3° ⋜ 16′29	
				morning set	15831 Jan 05 06:59	21° る 41'52	
superior conj	15830 Jan 27 14:26	21° ≈ 58′02	1°34'37		15831 Jan 09 01:51	0° ≈	
minimum elong	15830 Jan 27 15:34	22° ≈ 04'12	1°35'08				
max. Earth dist.	15830 Jan 29 15:07	26° ≈ 24'13	1.32113 AU	superior conj	15831 Jan 12 01:00	6° ≈ 36'56	1°38'04
	15830 Jan 31 07:07	0°) €		minimum elong	15831 Jan 12 01:04	6° ≈ 37'20	1°38'46
evening rise	15830 Feb 03 23:22	7°) 42′16		max. Earth dist.	15831 Jan 12 20:53	8° ≈ 27'52	1.31299 AU
desc. node	15830 Feb 10 15:32	20°) 41′05		evening rise	15831 Jan 19 00:13	21°≈50'16	
	15830 Feb 15 22:31	$0^{\circ}\mathbf{Y}$		C	15831 Jan 22 23:58	0° ∀	
evening max el	15830 Mar 09 07:31	28° Y '46'20	27°35'43	desc. node	15831 Jan 28 12:13	10°) 23′21	
3	15830 Mar 10 15:17	0°B			15831 Feb 09 23:37	$0^{\circ}\Upsilon$	
retrograde	15830 Mar 23 04:39	6° 8 15'59		evening max el	15831 Feb 19 15:28	11° Υ 13'52	27°23'38
evening set	15830 Mar 30 00:07	3° 8 55'00		retrograde	15831 Mar 05 15:31	18° Y 35'12	27 23 30
min. Earth dist.	15830 Apr 02 18:33	0° 8 45'30	0.63071 AU	evening set	15831 Mar 12 09:54	16° Y 30'47	
iiiii. Lattii dist.	15830 Apr 02 18:33	30°RΥ	0.030/1 AU	min. Earth dist.	15831 Mar 16 05:34	13°\dagger42'26	0.60867 AU
inferior conj	_	27° Υ ′54'23	0927!10	inferior conj	15831 Mar 19 09:39	13 γ 42 20 10° γ 56'15	
,	15830 Apr 05 15:26			·			
minimum elong	15830 Apr 05 16:19	27° Υ 52'10	0°27'08	minimum elong	15831 Mar 19 13:34	10° Y 47'39	1°45'41
asc. node	15830 Apr 07 01:29	26° Y 31′06		asc. node	15831 Mar 24 22:53	6° Y 48'55	
morning rise	15830 Apr 12 11:14	22° Y ′42'03		morning rise	15831 Mar 26 20:34	6° Y 02'31	
direct	15830 Apr 14 20:13	22° Y 15'05		direct	15831 Mar 28 23:13	5° Ƴ 43'58	
morning max el	15830 Apr 21 08:14	25° Y 33′25	17°46'10	morning max el	15831 Apr 05 00:25	9° Ƴ 16′02	17°54'13
	15830 Apr 25 02:48	9° 8			15831 Apr 18 14:54	9° 8	
morning set	15830 May 07 14:43	20° 8 18'11		morning set	15831 Apr 20 15:08	3° 8 38'18	
desc. node	15830 May 09 17:06	23° 8 55'37		desc. node	15831 Apr 26 13:52	14° 8 22'12	
	15830 May 13 06:11	Π° 0					
	-			superior conj	15831 May 01 07:33	22° 8 41'29	-0°38'00
superior conj	15830 May 19 22:49	11° Ⅱ 12'14	-1°16'11	minimum elong	15831 May 01 04:10	22° 8 26'52	
minimum elong	15830 May 19 15:42	10° Ⅱ 42'56		3	15831 May 05 14:34	0°II	
max. Earth dist.	15830 May 26 02:55			max. Earth dist.	15831 May 08 17:33	5° Ⅱ 10'51	1.42980 AU
	15830 May 31 17:09	0°95	1520710	evening rise	15831 May 14 21:53	15° Ⅱ 06'42	12700710
evening rise	15830 Jun 04 01:07	5° © 08'52		5 , ching 1150	15831 May 14 21:33	0°9	
evening 1150	15830 Jun 20 18:59	3 3 08 32		avaning may al	•	0 59 29°5949'01	21°58'32
ovenina ma1			20042156	evening max el	15831 Jun 16 04:25		21 30 32
evening max el	15830 Jul 03 09:10	15° Ω 55'27	20 43 30	1	15831 Jun 16 08:51	0° Ω	
asc. node	15830 Jul 03 23:56	16° Ω 31'25		asc. node	15831 Jun 20 20:51	3° Ω 42'21	
retrograde	15830 Jul 11 15:00	20° Ω 39'24		retrograde	15831 Jun 25 13:08	5° Ω 17'05	

		_				_	
evening set	15831 Jun 30 05:38	3° Ω 20′01		evening max el	15832 May 28 19:41	13° © 43'01	23°19'15
	15831 Jul 03 07:17	30° Ŗ ூ		asc. node	15832 Jun 06 17:51	19° © 43'38	
inferior conj	15831 Jul 05 11:32	27° © 02'26	3°06'34	retrograde	15832 Jun 08 09:03	19° © 55'11	
minimum elong	15831 Jul 05 10:55	27° 5 04'33	3°05'46	evening set	15832 Jun 13 13:04	17° 5 43'21	
min. Earth dist.	15831 Jul 05 12:18	26°©59'44	0.69094 AU	inferior conj	15832 Jun 18 21:23	11° © 17'49	2°54'20
morning rise	15831 Jul 10 16:03	20°5947'04		minimum elong	15832 Jun 18 19:57	11° 5 22'46	2°53'19
direct	15831 Jul 15 11:23	18° © 44'53		min. Earth dist.	15832 Jun 18 09:08	12° © 00'05	0.69044 AU
desc. node	15831 Jul 23 13:13	22° © 57'04		morning rise	15832 Jun 24 02:47	5° © 10'20	
morning max el	15831 Jul 24 23:58	24°\$20'20	22°12'01	direct	15832 Jun 28 09:52	3°\$27'27	
morning max cr	15831 Jul 30 01:00	0°Ω	22 12 01	morning max el	15832 Jul 06 17:48	8°9513'22	20°50'31
	15831 Aug 20 06:21			desc. node	15832 Jul 00 17.48 15832 Jul 09 10:26		20 30 31
	Č	0° m)		desc. node		11°907'10	
morning set	15831 Aug 27 00:48	10° m 38'48			15832 Jul 23 10:52	$0^{\circ}\Omega$	
max. Earth dist.	15831 Sep 01 09:19	19° m 25'24	1.41411 AU	morning set	15832 Aug 05 16:47	19° Ω 58'52	
	15831 Sep 07 13:44	0∘ ⊽			15832 Aug 12 01:22	0° m)	
				max. Earth dist.	15832 Aug 13 17:07	2° m 39'44	1.43465 AU
superior conj	15831 Sep 09 04:52	2° ჲ 52'23	-1°04'07				
minimum elong	15831 Sep 09 10:01	3° ₽ 15'13	1°03'23	superior conj	15832 Aug 20 13:17	13° m 54'54	-1°38'39
asc. node	15831 Sep 16 21:55	16° £ 53'19		minimum elong	15832 Aug 20 20:54	14° m/26'52	1°38'07
evening rise	15831 Sep 19 14:42	21° ≏ 54'35			15832 Aug 29 21:32	0∘ <u>⊽</u>	
o voliding rise	15831 Sep 23 23:54	0°M		evening rise	15832 Sep 01 13:52	ა — 4° ჲ 44'01	
evening max el	15831 Oct 05 12:47	17°M21'33	18°15'23	asc. node	15832 Sep 01 15:32 15832 Sep 02 18:32	6° £ 50'49	
Č			16 13 23	asc. node			
retrograde	15831 Oct 12 21:25	21°M06'53			15832 Sep 17 16:04	0°M,	10001110
evening set	15831 Oct 14 23:32	20°M49'21		evening max el	15832 Sep 18 01:25	0° M 23'45	18°01'49
desc. node	15831 Oct 19 10:03	18°M31'29		retrograde	15832 Sep 24 17:12	3°M50'00	
inferior conj	15831 Oct 22 10:48	16°M06'53	-0°58'18	evening set	15832 Sep 27 02:44	3°M23'04	
minimum elong	15831 Oct 22 08:39	16° ™ 11'25	0°56'54		15832 Oct 02 03:12	30° ŖΩ	
min. Earth dist.	15831 Oct 25 17:01	13° M 22'54	0.58830 AU	inferior conj	15832 Oct 03 21:10	28° ≏ 20'48	0°26'33
morning rise	15831 Oct 29 14:21	10° ™ 40'07		minimum elong	15832 Oct 03 21:59	28° ≏ 18'48	0°26'33
direct	15831 Nov 05 00:40	8°M49'07		desc. node	15832 Oct 05 07:23	26° ₽ 57'01	
morning max el	15831 Nov 19 07:43	16°M29'19	27°30'53	min. Earth dist.	15832 Oct 06 22:59	25° ≏ 22'20	0.61119 AU
morning man vi	15831 Nov 30 10:37	0°×7	2, 3003	morning rise	15832 Oct 10 14:17	22° ₽ 25'15	0.01119110
asc. node	15831 Dec 13 22:40	22° х 34'05		direct	15832 Oct 17 06:12	20° ₽ 10'56	
asc. Houe		22 メ ・3403					27°58'26
	15831 Dec 17 16:58			morning max el	15832 Oct 31 11:23		27 38 20
morning set	15831 Dec 20 14:37	6°る03'07	1 21007 177		15832 Nov 02 07:50	0°M	
max. Earth dist.	15831 Dec 27 04:45	20° る 31'59	1.31007 AU		15832 Nov 23 06:10	0° ∡ ″	
				asc. node	15832 Nov 29 19:38	12° ∡ 13′09	
superior conj	15831 Dec 27 12:28	21° る 15'11	1°35'29	morning set	15832 Dec 03 17:11	20° ∡ 06'31	
minimum elong	15831 Dec 27 11:30	21° る 09'48	1°36'14		15832 Dec 08 08:07	0°る	
	15831 Dec 31 10:31	0° ≈		max. Earth dist.	15832 Dec 09 10:47	2° る 26'38	1.31270 AU
evening rise	15832 Jan 03 06:18	6°≈09'45					
desc. node	15832 Jan 15 08:58	29°≈37'10		superior conj	15832 Dec 10 22:58	5°る47'03	1°26'54
	15832 Jan 15 14:21	0°) €		minimum elong	15832 Dec 10 21:09	5° る 37'01	1°27'32
evening max el	15832 Feb 01 16:33	22°) 51'14	26°36'32	evening rise	15832 Dec 17 15:37	20° る 35'21	
o vonning man or	15832 Feb 14 19:34	0° Υ	20 3032	evening rise	15832 Dec 22 03:19	0° ≈	
retrograde	15832 Feb 15 16:31	0° Υ 01'53		desc. node	15833 Jan 01 05:46	18°≈11'06	
retrograde				desc. Hode		0° ∺	
	15832 Feb 16 13:25	30° ₹			15833 Jan 09 22:50		25015120
evening set	15832 Feb 22 02:45	28° X 20'25	0.50633 177	evening max el	15833 Jan 13 09:07	3°) ₹35'05	25-17-28
min. Earth dist.	15832 Feb 26 06:08	25°) 42'41		retrograde	15833 Jan 27 05:48	10°) (32'49	
inferior conj	15832 Feb 29 10:24	23°) 18′08		evening set	15833 Feb 01 22:47	9°) 19′03	
minimum elong	15832 Feb 29 17:51	23° ∺ 03'58	3°13'22	min. Earth dist.	15833 Feb 06 21:37	6° ∺ 36'46	
morning rise	15832 Mar 08 12:24	18°) 45′43		inferior conj	15833 Feb 09 14:29	4°) 49′58	
direct	15832 Mar 10 11:42	18°) 32′05		minimum elong	15833 Feb 09 23:51	4°) (34′32	4°40'11
asc. node	15832 Mar 10 20:17	18°) 32′33		morning rise	15833 Feb 18 03:37	0° ₩ 39'01	
morning max el	15832 Mar 18 11:30	22° 升 29′08	18°21'44	direct	15833 Feb 20 05:24	0°) €26'30	
Ü	15832 Mar 24 08:22	0° Υ		asc. node	15833 Feb 25 17:41	2°) €01'09	
morning set	15832 Apr 03 05:41	17° Y 36'30		morning max el	15833 Mar 01 13:12	4°) 59′27	19°10'43
	15832 Apr 09 18:51	0°8			15833 Mar 17 05:53	0°Υ	-, -, -,
desc. node	15832 Apr 12 10:32	4° 8 53'55		morning set	15833 Mar 18 05:53	1° Υ 58'38	
acse. Houc	13032 Apr 12 10.32	¬ ()))		morning set	13033 Wiai 10 US.33	1 13030	
superior con:	15932 Apr 12 14:02	50×10101	0001!14	superior comi	15922 Mar 26 12.57	18° Ƴ 24'26	0°30'56
superior conj	15832 Apr 12 14:03	5° 8 10'01		superior conj	15833 Mar 26 13:57		
minimum elong	15832 Apr 12 13:55	5° 8 09'25	0-01/3/	minimum elong	15833 Mar 26 15:46	18° ℃ 33'11	0°30'27
behind sun begin	15832 Apr 12 06:39	4° 8 36'10		desc. node	15833 Mar 30 07:10	25° Y ′26'32	
behind sun end	15832 Apr 12 21:12	5° 8 42'36			15833 Apr 01 18:48	0° 8	
max. Earth dist.	15832 Apr 20 03:16	18° 8 30'20	1.40902 AU	max. Earth dist.	15833 Apr 02 09:24	1° 8 05'52	1.38621 AU
evening rise	15832 Apr 24 14:04	25° 8 57'31		evening rise	15833 Apr 06 03:25	7° 8 42'38	
						—	
	15832 Apr 27 01:44	Π $^{\circ}0$			15833 Apr 19 23:46	Π $^{\circ}0$	
	15832 Apr 27 01:44 15832 May 17 08:38	0ಂ ತಿ 0∘Ⅱ		evening max el	15833 Apr 19 23:46 15833 May 11 09:13	0°Ц 27° Ц 37'34	24°39'54

	15833 May 13 22:49	0°ಅ		evening max el	15834 Apr 23 22:50	11° Ⅲ 30'41	25°53'14
retrograde	15833 May 23 01:27	4°926'46		retrograde	15834 May 06 13:11	18° Ⅱ 45'15	
asc. node	15833 May 24 14:57	4°9516'25		asc. node	15834 May 11 12:07	17° Ⅱ 06'43	
evening set	15833 May 28 16:55	2° © 03'27		evening set	15834 May 12 15:27	16° Ⅱ 14'50	
	15833 May 30 17:56	30° Ŗ Ⅱ		min. Earth dist.	15834 May 16 20:09	11° Ⅱ 44'43	0.67507 AU
min. Earth dist.	15833 Jun 02 04:28	26° Ⅱ 57'10	0.68508 AU	inferior conj	15834 May 18 10:15	9° Ⅱ 44'33	1°57'51
inferior conj	15833 Jun 03 05:37	25° Ⅱ 33'16	2°31'37	minimum elong	15834 May 18 08:05	9° Ⅱ 51'25	1°56'28
minimum elong	15833 Jun 03 03:37	25° Ⅱ 39'58	2°30'22	morning rise	15834 May 24 01:20	3° Ⅱ 56'33	
morning rise	15833 Jun 08 14:30	19° Ⅱ 34'50		direct	15834 May 27 09:51	2° Ⅱ 52'16	
direct	15833 Jun 12 09:53	18° Ⅱ 11'42		morning max el	15834 Jun 03 02:12	6° Ⅱ 27'39	18°47'19
morning max el	15833 Jun 19 18:25	22° Ⅱ 16′27	19°41'16	desc. node	15834 Jun 13 04:39	19° Ⅲ 31'11	
desc. node	15833 Jun 26 07:34	0°ණ02'28		greatest brilliancy	15834 Jun 16 23:03	25° Ⅱ 11'32	-0.8m
	15833 Jun 26 06:50	0 \circ \odot			15834 Jun 20 02:07	0 \circ	
greatest brilliancy	15833 Jul 02 17:43	9° © 05'08	-0.6m	morning set	15834 Jun 25 08:11	8° © 08'51	
morning set	15833 Jul 15 20:40	28°950'52			15834 Jul 09 09:08	0 \circ Ω	
	15833 Jul 16 14:40	0 \circ Ω		max. Earth dist.	15834 Jul 10 01:21	1° Ω 03′16	1.45841 AU
max. Earth dist.	15833 Jul 27 06:53	16° Ω 36'45	1.44987 AU				
				superior conj	15834 Jul 11 12:30	3° Ω 20'37	
superior conj	15833 Jul 31 22:15	23° Ω 59'38		minimum elong	15834 Jul 11 12:31	3° Ω 20'42	2°14'56
minimum elong	15833 Aug 01 04:44		2°04'39	evening rise	15834 Jul 26 21:11	27° Ω 39'29	
	15833 Aug 04 15:31	0° m)			15834 Jul 28 08:14	0° m)	
evening rise	15833 Aug 14 17:36	16° Mp 42'44		asc. node	15834 Aug 07 11:51	16°M)03'01	
asc. node	15833 Aug 20 15:11	26° m/36'01		evening max el	15834 Aug 16 06:03	27° m/33'00	18°30'07
	15833 Aug 22 16:51	0∘ ⊽			15834 Aug 19 07:56	0∘ ⊽	
evening max el	15833 Sep 01 16:18	13° ⊆ 50'44	18°07'04	retrograde	15834 Aug 22 17:06	1° ⊆ 01'04	
retrograde	15833 Sep 08 01:08	17° £ 11'15		evening set	15834 Aug 25 20:19	0° ≏ 05'46	
evening set	15833 Sep 10 19:12	16° ₽ 31'28	1021120		15834 Aug 26 00:10	30°R, M)	2017145
inferior conj	15833 Sep 16 23:37	11° £ 11'43	1°31'30	inferior conj	15834 Aug 31 14:11	24° m) 30'34	
minimum elong	15833 Sep 17 01:46	11° £ 05'49	1°30'52	minimum elong	15834 Aug 31 16:29	24° m) 23'38	2°17'00
min. Earth dist.	15833 Sep 19 14:54	8° ₾ 19'08	0.63359 AU	min. Earth dist.	15834 Sep 02 16:04	22° m, 00'36	0.65357 AU
desc. node	15833 Sep 22 04:46	5° Ω 49'20		morning rise	15834 Sep 06 11:25	18° Mp 06'56	
morning rise	15833 Sep 23 06:16	4° 쇼 57'40		desc. node	15834 Sep 09 02:11	16° Th 23'50	
direct	15833 Sep 29 21:52 15833 Oct 13 20:03	2° £ 27'18 10° £ 26'38	27947127	direct	15834 Sep 12 21:39	15° Tp 29'40	27902125
morning max el	15833 Oct 13 20.03 15833 Oct 29 05:31	0°M	21 4121	morning max el	15834 Sep 26 07:03 15834 Oct 02 05:21	23° ™ 21'17 0° ₽	27°03'35
	15833 Nov 15 14:42	0° ⊼ 7			15834 Oct 02 03.21 15834 Oct 22 13:23	0 == 0°M	
asc. node	15833 Nov 16 16:31	2° × ⁷ 07'37		morning set	15834 Oct 31 21:35	16°M58'37	
morning set	15833 Nov 17 12:27	3° × ⁷ 47'24		asc. node	15834 Nov 03 13:20	22°M11'42	
max. Earth dist.	15833 Nov 22 11:16		1.32106 AU	max. Earth dist.	15834 Nov 05 03:11	25°M22'25	1.33503 AU
max. Earth dist.	13033 1107 22 11.10	14 × 0432	1.52100710	max. Earth dist.	15834 Nov 07 09:09	0° ₹ ¹	1.55505 710
superior conj	15833 Nov 25 06:36	20° ₹ '08'05	1°12'15		130311101 07 07.07	υ <i>γ</i> .	
minimum elong	15833 Nov 25 04:18	19° ₹ 755'32		superior conj	15834 Nov 09 09:06	4° ∡ 11'40	0°51'30
8	15833 Nov 29 18:34	0°ಕ		minimum elong	15834 Nov 09 06:52	3° х 59'49	0°51'49
evening rise	15833 Dec 02 02:24	5° ට 03'32		evening rise	15834 Nov 16 12:45	19° ∡ ¹29'04	
<i>y</i> 21	15833 Dec 15 03:45	0° ≈		<i>3</i>	15834 Nov 21 15:26	0°ප	
desc. node	15833 Dec 19 02:40	5°≈51'12		desc. node	15834 Dec 05 23:40	22° る 17'59	
evening max el	15833 Dec 25 19:24	13° ≈ 40′17	23°37'51	evening max el	15834 Dec 07 06:54	23° る 38'10	21°55'26
retrograde	15834 Jan 08 05:26	20° ≈ 19'06		retrograde	15834 Dec 19 17:28	29° ප් 47'15	
evening set	15834 Jan 12 19:57	19° ≈ 33'13		evening set	15834 Dec 23 00:58	29° る 22'46	
min. Earth dist.	15834 Jan 19 06:35	16° ≈ 28′15	0.55129 AU	inferior conj	15834 Dec 31 15:07	25° る 31'51	-5°59'13
inferior conj	15834 Jan 20 21:58	15° ≈ 30′29	-5°46'10	minimum elong	15834 Dec 31 12:12	25° る 35'55	5°58'17
minimum elong	15834 Jan 21 03:58	15° ≈ 21'39	5°44'48	min. Earth dist.	15834 Dec 31 12:00	25° る 36'13	0.54431 AU
morning rise	15834 Jan 29 13:31	11° ≈ 36'31		morning rise	15835 Jan 09 00:14	21° る 44'24	
direct	15834 Feb 01 03:54	11° ≈ 19'53		direct	15835 Jan 12 13:29	21° る 16'38	
morning max el	15834 Feb 12 01:27	16° ≈ 36′03	20°22'50	morning max el	15835 Jan 24 22:38	27° る 15'50	21°57'10
asc. node	15834 Feb 12 15:02	17° ≈ 09'42			15835 Jan 27 13:12	0° ≈	
	15834 Feb 21 21:21	0° ∀		asc. node	15835 Jan 30 12:20	3° ≈ 41'19	
morning set	15834 Mar 02 12:25	16° ∺ 35′09			15835 Feb 14 07:45	0° ∀	
	15834 Mar 09 00:46	0 ° Υ		morning set	15835 Feb 14 22:41	1° ¥ 18′23	
superior conj	15834 Mar 10 03:00	2°Υ13'03	0°57'02	superior conj	15835 Feb 22 01:32	16° ¥ 25'45	1°16'40
minimum elong	15834 Mar 10 05:32	2°Υ25'52	0°56'42	minimum elong	15835 Feb 22 03:55	16°) (38'14	1°16'39
max. Earth dist.	15834 Mar 15 16:28	13° Y 09'16	1.36383 AU	max. Earth dist.	15835 Feb 26 05:06	24°) ₹59'56	1.34395 AU
desc. node	15834 Mar 17 03:48	15° Y 56′22			15835 Feb 28 17:20	0°Υ 2°Ω2 412	
evening rise	15834 Mar 19 11:43	20° Y 14′50		evening rise	15835 Mar 02 11:28	3° Υ 24'12	
	15834 Mar 25 00:36	0° B		desc. node	15835 Mar 04 00:26	6° ℃ 19'31	
	15834 Apr 13 23:41	0°Щ			15835 Mar 17 21:52	0°8	

evening max el	15835 Apr 06 12:45	25° 8 14'58	26°51'40	desc. node	15836 Feb 18 21:04	26°) 31′21	
evening max er	15835 Apr 12 06:26	0°Ⅱ	20 31 10	desc. Hode	15836 Feb 20 18:35	0°Υ	
retrograde	15835 Apr 19 19:18	2° I I43'03			15836 Mar 11 08:08	0°8	
evening set	15835 Apr 26 06:50	0° Ⅱ 10'48		evening max el	15836 Mar 19 01:46	8° 8 38'31	27°27'45
C	15835 Apr 26 12:12	30°R ∀		retrograde	15836 Apr 01 18:53	16° 8 10'18	
asc. node	15835 Apr 28 09:21	28° 8 16'12		evening set	15836 Apr 08 12:49	13° 8 42'48	
min. Earth dist.	15835 Apr 30 06:04	26° 8 15'10	0.66069 AU	min. Earth dist.	15836 Apr 12 08:11	10° 8 18'15	0.64249 AU
inferior conj	15835 May 02 09:02	23° 8 46'23	1°12'03	asc. node	15836 Apr 14 06:41	8° 8 15'31	
minimum elong	15835 May 02 07:19	23° 8 51'24	1°10'49	inferior conj	15836 Apr 14 23:15	7° 8 31'16	0°13'01
morning rise	15835 May 08 09:07	18° 8 10'36		minimum elong	15836 Apr 14 22:53	7° 8 32'15	0°12'27
direct	15835 May 11 07:41	17° 8 23'07		transit middle	15836 Apr 14 22:53	7° 8 32'15	0°12'27
morning max el	15835 May 17 15:53	20° 8 42'09	18°10'05	transit begin	15836 Apr 14 20:56	7° 8 37'26	
	15835 May 24 23:43	Π °0		transit end	15836 Apr 15 00:50	7° 8 27'04	
desc. node	15835 May 31 01:38	9° Ⅱ 24'25		morning rise	15836 Apr 21 11:09	2° 8 09'56	
morning set	15835 Jun 05 19:28	18° Ⅱ 37′07		direct	15836 Apr 24 00:44	1° 8 36'28	
	15835 Jun 12 22:14	0 \circ		morning max el	15836 Apr 30 08:58	4° 8 51'32	17°49'57
				desc. node	15836 May 16 22:32	29° 8 34'35	
superior conj	15835 Jun 20 21:53	12° © 35'16	-2°03'53	morning set	15836 May 17 10:00	0° Ⅱ 22'48	
minimum elong	15835 Jun 20 14:53		2°04'18		15836 May 17 04:35	Π °0	
max. Earth dist.	15835 Jun 22 22:12	15° 5 44'03	1.45946 AU				
	15835 Jul 02 02:26	0 $^{\circ}\Omega$		superior conj	15836 May 30 19:05	22° Ⅱ 26'21	
evening rise	15835 Jul 07 00:39	7° Ω 38'01		minimum elong	15836 May 30 10:35	21° ∏ 52′10	1°36'29
greatest brilliancy	15835 Jul 18 12:31	25° Ω 16'32	-0.7m		15836 Jun 04 13:06	0	
	15835 Jul 21 17:14	0° m)		max. Earth dist.	15836 Jun 04 18:02	0° © 19'27	1.45302 AU
asc. node	15835 Jul 25 08:35	5° Mp 05'32		evening rise	15836 Jun 15 12:51	17° © 03'10	
evening max el	15835 Jul 30 16:00	11° m 23'41	19°10'04		15836 Jun 24 02:14	0 ° Ω	
retrograde	15835 Aug 06 13:52	15° Mp 12'28		greatest brilliancy	15836 Jun 30 02:42	8° Ω 52'08	-0.6m
evening set	15835 Aug 10 02:41	14° Mp 00'03	20.45151	asc. node	15836 Jul 11 05:24	23° Ω 34'14	20005140
inferior conj	15835 Aug 15 13:27	8° Mp 11'01	2°47'51	evening max el	15836 Jul 12 20:19	25° Ω 16'53	20°05'40
minimum elong	15835 Aug 15 15:12	8° Mp 05'19	2°47'10	retrograde	15836 Jul 20 12:45	29° £ 38′23	
min. Earth dist.	15835 Aug 17 01:11	6° Mp 15'24	0.66987 AU	evening set	15836 Jul 24 11:46	28°Ω08'18	2004117
morning rise	15835 Aug 21 03:03	1° Mp 44'31		inferior conj	15836 Jul 29 18:31	22°Ω06'56 22°Ω03'54	3°04'17 3°03'39
desc. node	15835 Aug 23 16:03	30°R Ω 29° Ω 09'07		minimum elong min. Earth dist.	15836 Jul 29 19:25 15836 Jul 30 16:21	22° Ω 52'44	0.68178 AU
direct	15835 Aug 26 23:37 15835 Aug 27 04:24	29° Ω 08'58		morning rise	15836 Aug 04 02:41	20 δ <i>t</i> 32 44 15° Ω 42'18	0.08178 AU
direct	15835 Aug 27 04.24 15835 Aug 30 23:34	0°m)		direct	15836 Aug 04 02.41 15836 Aug 09 17:02	13° Ω 15'37	
morning max el	15835 Aug 30 25:34 15835 Sep 08 18:32	6° Mp 38'55	25°55'08	desc. node	15836 Aug 12 21:01	13° Ω 55'00	
morning max cr	15835 Sep 06 18:52 15835 Sep 26 21:56	0∘ ⊽	23 33 08	morning max el	15836 Aug 21 05:34	20°Ω09'27	24°31'34
morning set	15835 Oct 14 17:13	0 — 29° ≏ 32'53		morning max ci	15836 Aug 29 16:04	0°m	24 3134
morning set	15835 Oct 14 17:13	0° ™			15836 Sep 19 01:40	0° م	
max. Earth dist.	15835 Oct 18 09:40	6°M28'10	1.35404 AU	morning set	15836 Sep 25 19:21	11° ≏ 21'04	
asc. node	15835 Oct 21 10:06	12°M21'15		max. Earth dist.	15836 Sep 29 09:20	17° £ 42'25	1.37667 AU
					15836 Oct 05 23:21	0°M	
superior conj	15835 Oct 24 03:53	17° M 51'22	0°24'49				
minimum elong	15835 Oct 24 02:29	17° M .44'18	0°25'06	superior conj	15836 Oct 06 11:39	0°M59'20	-0°07'12
C	15835 Oct 30 00:58	0° ∡ ¹		minimum elong	15836 Oct 06 12:06	1°M01'33	0°06'46
evening rise	15835 Oct 31 20:44	3° ∡ '47'15		behind sun begin	15836 Oct 06 05:56	0°M31'43	
•	15835 Nov 15 15:27	ರ∘ರ		behind sun end	15836 Oct 06 18:16	1°M31'26	
evening max el	15835 Nov 19 04:56	4° る 05'29	20°26'13	asc. node	15836 Oct 07 06:48	2°M32'20	
desc. node	15835 Nov 22 20:46	7° る 08'09		evening rise	15836 Oct 14 23:56	17° M 51'59	
retrograde	15835 Nov 30 04:12	9° ට 32'54			15836 Oct 21 06:14	0° ∡ 7	
evening set	15835 Dec 02 11:25	9° ට 19'36		evening max el	15836 Oct 31 17:34	15° ∡ °22'04	19°18'05
inferior conj	15835 Dec 11 07:15	5° る 24'50	-5°11'10	desc. node	15836 Nov 08 17:56	19° ₹ ′58′01	
minimum elong	15835 Dec 10 21:44	5° る 38'46	5°08'12	retrograde	15836 Nov 10 01:59	20° х °03′34	
min. Earth dist.	15835 Dec 12 17:37	4° る 34'32	0.54661 AU	evening set	15836 Nov 11 23:28	19° ∡ 52'50	
morning rise	15835 Dec 19 07:40	1° る 25'18		inferior conj	15836 Nov 20 12:29	15° ∡ ⁴43'28	-3°39'37
direct	15835 Dec 23 22:13	0° ろ 39'38		minimum elong	15836 Nov 20 03:37	15° ₹ ′58′08	3°35'46
morning max el	15836 Jan 06 09:12	7° る 15'53	23°45'45	min. Earth dist.	15836 Nov 23 03:08	14° ∡ °00'02	0.55781 AU
asc. node	15836 Jan 17 09:37	21° る 18'01		morning rise	15836 Nov 28 05:26	11° ∡ 13'45	
	15836 Jan 22 11:15	0° ≈		direct	15836 Dec 03 17:39	10° ∡ °04'24	
morning set	15836 Jan 30 10:33	16° ≈ 02'11		morning max el	15836 Dec 17 18:32	17° ∡ 10'53	25°32'04
	15836 Feb 05 20:37	0° ∀			15836 Dec 28 06:07	0° ろ	
		0014-		asc. node	15837 Jan 03 06:50	9° る 43'54	
superior conj	15836 Feb 06 06:36		1°29'53	morning set	15837 Jan 13 22:12	0° ≈ 41'33	
minimum elong	15836 Feb 06 08:16	1°) €03'16	1°30'12		15837 Jan 13 14:29	0° ≈	
max. Earth dist.	15836 Feb 09 01:12	6°) 52'12	1.32805 AU		15027 1 20 15 17	15021155	102750
evening rise	15836 Feb 13 23:12	17° ∺ 01'58		superior conj	15837 Jan 20 15:47	15° ≈ 31'52	1~36'50

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	15020 D 20 14 15	1.40=7.4715.0	1022124		15020 D 04 22 40	200 71 (102	1021125
superior conj	15838 Dec 20 14:15	14° 3 47'59	1°32'34	superior conj	15839 Dec 04 23:48	29° х 16'03	
minimum elong	15838 Dec 20 12:54	14° る 40'26	1°33'18	minimum elong	15839 Dec 04 21:44	29° ∡ ¹04'37	1°22'00
evening rise	15838 Dec 27 07:04	29° る 38'07			15839 Dec 05 07:45	0° ろ	
	15838 Dec 27 11:07	0° ≈		evening rise	15839 Dec 11 17:16	14° る 05'53	
desc. node	15839 Jan 09 11:10	24° ≈ 56′16			15839 Dec 19 12:48	0° ≈	
	15839 Jan 12 15:54	0° ∺		desc. node	15839 Dec 27 08:02	13° ≈ 09'46	
evening max el	15839 Jan 24 15:08	14° ∺ 51'49	26°06'17	evening max el	15840 Jan 06 04:33	25° ≈ 16'57	24°36'31
retrograde	15839 Feb 07 14:11	21° ¥ 56′27			15840 Jan 12 09:27	0° ∀	
evening set	15839 Feb 13 18:08	20° ∺ 26'48		retrograde	15840 Jan 19 21:24	2° ₩ 07'08	
min. Earth dist.	15839 Feb 18 04:21	17°) (48′57	0.57734 AU	evening set	15840 Jan 25 04:30	1°) €05'20	
inferior conj	15839 Feb 21 05:10	15° ¥ 39′08	-3°54'25		15840 Jan 27 15:03	30° R ≈	
minimum elong	15839 Feb 21 13:49	15° ¥ 23'39	3°51'19	min. Earth dist.	15840 Jan 30 16:23	28° ≈ 16′03	0.55908 AU
morning rise	15839 Mar 01 12:37	11°) 15′36		inferior conj	15840 Feb 02 00:14	26° ≈ 49'11	-5°14'22
direct	15839 Mar 03 12:07	11° ¥ 02'53		minimum elong	15840 Feb 02 09:01	26° ≈ 35'30	
asc. node	15839 Mar 05 22:48	11° X 23'16		morning rise	15840 Feb 10 15:42	22°≈46'30	5 115)
morning max el	15839 Mar 12 00:25	15°) 14'13	18°39'47	direct	15840 Feb 12 21:39	22°≈32'52	
morning max cr	15839 Mar 22 05:36	0° Υ	10 37 47	asc. node	15840 Feb 20 20:10	25°≈36'35	
	15839 Mar 28 01:51	11° Υ 01'03					10020122
morning set	13839 Mar 28 01:31	11-10103		morning max el	15840 Feb 22 20:49	27°≈23'07	19°38'33
	15000 1 05 00 55	2000000110	0012100		15840 Feb 25 06:38	0° \	
superior conj	15839 Apr 05 22:55	28° Y ′02'49	0°13'08	morning set	15840 Mar 11 05:10	25°) (31'15	
minimum elong	15839 Apr 05 23:48	28° Y ′06′53	0°12'41		15840 Mar 13 10:22	0 ° Υ	
behind sun begin	15839 Apr 05 19:33	27° Y '47'02					
behind sun end	15839 Apr 06 04:03	28° Y 26'43		superior conj	15840 Mar 19 05:00	11° Ƴ 34'01	0°42'47
	15839 Apr 07 00:08	9° 8		minimum elong	15840 Mar 19 07:15	11° Ƴ 45′06	0°42'20
desc. node	15839 Apr 07 12:41	0° ႘ 57'58		desc. node	15840 Mar 24 09:19	21° Y 30'13	
max. Earth dist.	15839 Apr 13 06:34	11° 8 16'16	1.39943 AU	max. Earth dist.	15840 Mar 25 13:00	23° Y 38'40	1.37650 AU
evening rise	15839 Apr 17 07:37	18° 8 11'23		evening rise	15840 Mar 29 05:29	0° 8 18'07	
•	15839 Apr 24 14:23	Π $^{\circ}0$			15840 Mar 29 01:24	0° ႘	
	15839 May 15 20:10	0°ಅ			15840 Apr 16 20:23	Π°	
evening max el	15839 May 22 02:19	6°959'03	23°54'09	evening max el	15840 May 03 15:44	20° Ⅱ 53'45	25°12'24
asc. node	15839 Jun 01 20:14	13° © 27'06	23 0 . 05	retrograde	15840 May 15 17:48	27° I 54'59	-5 12-1
retrograde	15839 Jun 02 03:19	13° 5 27'00		asc. node	15840 May 18 17:22	27° Ⅱ 17'59	
evening set	15839 Jun 07 12:19	11°S10'22		evening set	15840 May 21 14:08	27 Ⅱ 17 39 25° Ⅱ 27'47	
•			0.60072 ATT	=	•		0.60140.411
min. Earth dist.	15839 Jun 12 04:36	5°543'02	0.68873 AU	min. Earth dist.	15840 May 25 22:31	20° Ⅲ 37'21	0.68140 AU
inferior conj	15839 Jun 12 22:18	4°5542'42	2°46'02	inferior conj	15840 May 27 05:15	18° Ⅱ 57'03	2°18'43
minimum elong	15839 Jun 12 20:35	4°5548'33	2°44'54	minimum elong	15840 May 27 03:07	19° Ⅱ 04'03	2°17'23
	15839 Jun 16 17:09	30°Ŗ Ⅱ		morning rise	15840 Jun 01 16:28	13° Ⅱ 03'11	
morning rise	15839 Jun 18 04:52	28° ∏ 39′02		direct	15840 Jun 05 07:09	11° Ⅱ 48'19	
direct	15839 Jun 22 06:59	27° Ⅱ 04'24		morning max el	15840 Jun 12 07:48	15° Ⅲ 38'43	19°16'25
	15839 Jun 28 12:24	0		desc. node	15840 Jun 20 09:57	25° Ⅱ 36'30	
morning max el	15839 Jun 30 03:56	1° 5 31'02	20°19'24		15840 Jun 23 11:29	0 \circ \odot	
desc. node	15839 Jul 04 12:50	6° © 25'37		greatest brilliancy	15840 Jun 25 01:11	2° © 18'42	-0.7m
	15839 Jul 21 05:37	$0^{\circ}\Omega$		morning set	15840 Jul 06 17:33	20° © 03'05	
morning set	15839 Jul 28 12:58	11° Ω 06'43			15840 Jul 13 04:09	$0^{\circ}\Omega$	
max. Earth dist.	15839 Aug 06 23:07	25° Ω 52'48	1.44188 AU	max. Earth dist.	15840 Jul 19 15:31	10° Ω 05'38	1.45438 AU
	15839 Aug 09 12:41	0° ™					
				superior conj	15840 Jul 23 00:01	15° Ω 22'40	-2°10'56
superior conj	15839 Aug 13 00:14	5° m 40'20	-1°51'07	minimum elong	15840 Jul 23 04:19	15° Ω 39'41	
minimum elong	15839 Aug 13 08:00	6° mp 12'17	1°50'50	minimum ciong	15840 Aug 01 02:54	0° m)	2 11 20
evening rise	15839 Aug 25 18:50	27° Mp 17'49	1 30 30	evening rise	15840 Aug 06 12:45	8° Mp 51'11	
evening rise	-	0° ⊽		•	15840 Aug 14 17:22		
1-	15839 Aug 27 08:19			asc. node	•	22° m 15'26	
asc. node	15839 Aug 28 20:43	2° Ω 37'15	10001110		15840 Aug 19 18:24	0∘ ⊽	1001444
evening max el	15839 Sep 11 18:41	23° Ω 26'12	18°01'48	evening max el	15840 Aug 25 09:22	7° ⊆ 00'04	18°14'42
retrograde	15839 Sep 18 06:13	26° ≏ 48'21		retrograde	15840 Aug 31 18:10	10° ≏ 22'31	
evening set	15839 Sep 20 19:23	26° ≏ 16'11		evening set	15840 Sep 03 16:00	9° ≏ 36'26	
inferior conj	15839 Sep 27 07:25	21° ≏ 05'51	0°56'30	inferior conj	15840 Sep 09 15:30	4° ჲ 09'38	1°53'14
minimum elong	15839 Sep 27 08:58	21° ≏ 01'51	0°56'08	minimum elong	15840 Sep 09 17:49	4° ჲ 02'58	1°52'31
min. Earth dist.	15839 Sep 30 05:07	18° ≏ 07'58	0.62094 AU	min. Earth dist.	15840 Sep 12 01:10	1° ≏ 24'59	0.64243 AU
desc. node	15839 Sep 30 09:54	17° ≏ 56'18			15840 Sep 13 08:59	30°R, Mp	
morning rise	15839 Oct 03 20:02	15° ≏ 01'23		morning rise	15840 Sep 15 17:55	27° m 50'16	
direct	15839 Oct 10 12:26	12° ≏ 39'34		desc. node	15840 Sep 16 07:19	27° m 24'58	
morning max el	15839 Oct 24 15:11	20° ≏ 36'36	27°58'15	direct	15840 Sep 22 07:34	25° m) 16'06	
5	15839 Nov 01 18:12	0°M			15840 Oct 02 12:55	0∘ ⊽	
	15839 Nov 20 17:46	0° × 7		morning max el	15840 Oct 06 01:25	ა — 3° ჲ 14'09	27°32'26
asc. node	15839 Nov 24 21:55	7° ∡ 759'56			15840 Oct 26 04:10	0°M	
morning set	15839 Nov 27 13:19	13° х 19'38		morning set	15840 Nov 10 04:41	26°M49'00	
max. Earth dist.	15839 Nov 27 13.19 15839 Dec 02 22:50	24° x ⁷ 47'13	1.31565 AU	asc. node	15840 Nov 10 04.41 15840 Nov 10 18:47	26 11649 00 27°M59'08	
man. Latui Uist.	13037 DCC 02 22.30	∠ 4 X.4/13	1.51303 AU	asc. nout	13040 NOV 10 18.4/	41 IIG39 U8	

	15040 N 11 10.51	00.7		Fauth diat	15041 0-4 20 07.50	170 M 27140	1 2424C ATT
Fauth diet	15840 Nov 11 18:51	0° 🗷 1.7!2.7	1 22/22 AII	max. Earth dist.	15841 Oct 28 07:50	17°M27'48	1.34246 AU
max. Earth dist.	15840 Nov 14 20:10	6° ∡ 17'27	1.32633 AU	asc. node	15841 Oct 28 15:35	18°M06'21	
	15040 N 10 05.22	120.720110	1°04'12		15041 N 02 05.10	270 m 25102	0°40'55
superior conj	15840 Nov 18 05:33	13°×730'18		superior conj	15841 Nov 02 05:10		
minimum elong	15840 Nov 18 03:12	13°×717'36	1°04'36	minimum elong	15841 Nov 02 03:11	27°M14'40	0°41'12
evening rise	15840 Nov 25 04:07	28° ₹ '33'33			15841 Nov 03 10:49	0° ⊼ ¹	
	15840 Nov 25 20:18	0°₹		evening rise	15841 Nov 09 13:45	12° ∡ 756'49	
	15840 Dec 12 22:09	0° ≈			15841 Nov 18 05:25	0°る	
desc. node	15840 Dec 13 05:00	0° ≈ 21'40		evening max el	15841 Nov 29 05:05	15° පි 21'17	21°15'20
evening max el	15840 Dec 17 13:57	5° ≈ 13'46	22°53'29	desc. node	15841 Nov 30 02:04	16° ට 11'10	
retrograde	15840 Dec 30 15:54	11° ≈ 42′22		retrograde	15841 Dec 11 02:08	21° る 13'58	
evening set	15841 Jan 03 17:13	11° ≈ 06'35		evening set	15841 Dec 13 21:27	20° る 55'43	
min. Earth dist.	15841 Jan 10 23:21	7° ≈ 46'05	0.54720 AU	inferior conj	15841 Dec 22 15:25	17° る 04'57	-5°45'55
inferior conj	15841 Jan 12 00:24	7° ≈ 10′27	-5°59'07	minimum elong	15841 Dec 22 08:53	17° る 14'10	5°44'16
minimum elong	15841 Jan 12 03:00	7° ≈ 06'45	5°58'17	min. Earth dist.	15841 Dec 23 04:54	16° る 45'56	0.54410 AU
morning rise	15841 Jan 20 14:04	3° ≈ 21′21		morning rise	15841 Dec 30 20:38	13° る 14'26	
direct	15841 Jan 23 13:01	3° ≈ 01'05		direct	15842 Jan 03 20:40	12° る 39'49	
morning max el	15841 Feb 04 02:44	8° ≈ 35'48	21°00'34	morning max el	15842 Jan 16 18:39	18° る 56'29	22°42'15
asc. node	15841 Feb 06 17:31	11° ≈ 23'02		asc. node	15842 Jan 24 14:50	28° る 24'48	
	15841 Feb 18 12:12	0° ∀			15842 Jan 25 16:25	0° ≈	
morning set	15841 Feb 23 13:35	10° ₩ 11'41		morning set	15842 Feb 08 00:47	24° ≈ 55'52	
					15842 Feb 10 09:34	0° ₩	
superior conj	15841 Mar 02 22:32	25°) 34'36	1°06'09				
minimum elong	15841 Mar 03 01:06	25°) 47'44	1°05'56	superior conj	15842 Feb 15 00:13	9° ¥ 55'14	1°23'02
8	15841 Mar 05 02:38	0°Υ		minimum elong	15842 Feb 15 02:20		1°23'09
max. Earth dist.	15841 Mar 07 21:48	5° Υ 33'41	1.35492 AU	max. Earth dist.	15842 Feb 18 13:14	17° ¥ 22'25	1.33667 AU
desc. node	15841 Mar 11 05:56	11° Υ 57'52	1.55 1,2 110	evening rise	15842 Feb 23 02:07	26°\(\)30'18	1.55007 110
evening rise	15841 Mar 11 20:49	13° Υ '07'26		evening rise	15842 Feb 24 21:35	0°Υ	
evening rise	15841 Mar 21 12:10	0° と		desc. node	15842 Feb 26 02:35	2°Υ16'56	
	15841 Apr 11 18:49	0°II		desc. node	15842 Mar 14 20:42	0°8	
avanina may al	-	0 П 4°П43'20	26°20'15	avanina may al	15842 Mar 29 19:00	18° 8 20'12	27910107
evening max el	15841 Apr 16 05:17	12° Ⅱ 05'50	20 20 13	evening max el		_	27 1007
retrograde	15841 Apr 29 03:22			retrograde	15842 Apr 12 07:04	25° 8 51'29	
evening set	15841 May 05 09:53	9° Ⅱ 33'36		evening set	15842 Apr 18 21:33	23° 8 20'30	
asc. node	15841 May 05 14:35	9° Ⅱ 23'49	0.66046.477	asc. node	15842 Apr 22 11:51	19° 8 57'31	0.65006.177
min. Earth dist.	15841 May 09 11:58	5° Ⅱ 18'34	0.66946 AU	min. Earth dist.	15842 Apr 22 18:55	19° 8 38'20	0.65336 AU
inferior conj	15841 May 11 07:40	3° Ⅱ 04'48	1°39'57	inferior conj	15842 Apr 25 03:10	17° 8 00'17	0°48'38
minimum elong	15841 May 11 05:36	3° Ⅱ 11′09	1°38'36	minimum elong	15842 Apr 25 01:54	17° 8 03'51	0°47'38
	15841 May 13 23:15	30° ₹ 8		morning rise	15842 May 01 07:57	11° 8 30'12	
morning rise	15841 May 17 02:16	27° 8 21'57		direct	15842 May 04 02:28	10° 8 49'09	
direct	15841 May 20 06:20	26° 8 25'18		morning max el	15842 May 10 09:48	_	17°59'18
	15841 May 26 21:31	Π \circ 0			15842 May 21 21:36	Π °0	
morning max el	15841 May 26 18:23	29° 8 52'22	18°29'24	desc. node	15842 May 25 03:55	5° Ⅱ 17′21	
desc. node	15841 Jun 07 06:58	15° Ⅱ 16′23		morning set	15842 May 28 12:50	10° Ⅱ 48′21	
morning set	15841 Jun 16 13:49	29° Ⅱ 46'57			15842 Jun 09 09:51	0 \circ \odot	
	15841 Jun 16 17:08	0°©					
				superior conj	15842 Jun 11 22:38	4° ഇ 00'39	-1°53'58
superior conj	15841 Jul 02 10:04	24° © 35'18	-2°12'16	minimum elong	15842 Jun 11 14:14	3° 5 27'28	1°54'07
minimum elong	15841 Jul 02 06:42	24° © 22'09	2°12'58	max. Earth dist.	15842 Jun 15 07:01	9° © 16'29	1.45760 AU
max. Earth dist.	15841 Jul 02 10:48	24° © 38'08	1.45973 AU	evening rise	15842 Jun 28 00:44	28° © 59'56	
	15841 Jul 05 21:22	$0^{\circ}\Omega$			15842 Jun 28 16:23	$0^{\circ}\Omega$	
evening rise	15841 Jul 18 05:35	19° Ω 21'11		greatest brilliancy	15842 Jul 11 11:13	19° Ω 20′22	-0.7m
•	15841 Jul 24 23:53	0° m)		asc. node	15842 Jul 19 10:51	0° m 22'13	
greatest brilliancy	15841 Jul 26 18:00	2° m/44'15	-0.8m		15842 Jul 19 03:46	0° mp	
asc. node	15841 Aug 01 14:05	11° m 33'03		evening max el	15842 Jul 23 05:25	4° m/38'22	19°32'03
evening max el	15841 Aug 08 21:42	20° m/46'15	18°45'09	retrograde	15842 Jul 30 10:21	8° m/39'35	
retrograde	15841 Aug 15 12:33	24° m/21'57	10 .00	evening set	15842 Aug 03 03:25	7° m) 19'48	
evening set	15841 Aug 18 19:41	23° m 19'42		inferior conj	15842 Aug 08 12:08	1° m) 25'40	2°56'22
inferior conj	15841 Aug 24 10:08	17° m ₀ 38'32	2°32'19	minimum elong	15842 Aug 08 13:33	1° m) 20'57	2°55'43
minimum elong	15841 Aug 24 10:08	17° my 31'53	2°31'35	minimum ciong	15842 Aug 09 13:58	1 11√20 37 30°RΩ	2 55 75
min. Earth dist.	15841 Aug 26 06:06	17 my 31 33	0.66092 AU	min. Earth dist.	15842 Aug 09 18:00	30 κ δι 29° Ω 46'44	0.67549 AU
	•	-	0.00092 AU		-	29 δ (46 44 24° Ω 59'31	0.01347 AU
morning rise	15841 Aug 30 03:50	11° Mp 12'44		morning rise	15842 Aug 13 23:08		
desc. node	15841 Sep 03 04:44	8° Mp 54'13		direct	15842 Aug 19 20:07	22° Ω 26'38	
direct	15841 Sep 05 10:35	8° TD 34'58	26926150	desc. node	15842 Aug 21 02:09	22° \O 32'46	25020150
morning max el	15841 Sep 18 12:53		26°36'59	morning max el	15842 Aug 31 23:54		25°20'50
	15841 Sep 29 21:07	0∘ 亚			15842 Sep 01 06:34	0° m)	
	15841 Oct 19 00:31	0°M			15842 Sep 23 17:33	0∘ ⊽	
morning set	15841 Oct 24 08:36	9° M 46'15		morning set	15842 Oct 06 21:15	22° ჲ 01'30	

direct

desc. node

15843 Aug 03 10:56

15843 Aug 07 23:30

6°Ω42'54

8°**Ω**03'11

desc. node

morning max el

24 20:47

25°900'02

26°958'30 22°24'52

15844 Jul

15844 Jul 26 23:14

	15844 Jul 29 18:46 15844 Aug 20 12:50	0° N 0° ™		morning max el desc. node	15845 Jul 09 16:06 15845 Jul 11 18:02	10°549'25 13°501'31	21°01'55
morning set	15844 Aug 29 08:40	13° Mp 51'50		desc. Hode	15845 Jul 24 15:10	0°Ω	
max. Earth dist.	15844 Sep 03 10:06	22° m) 12'36	1.41073 AU	morning set	15845 Aug 09 03:36	23° Ω 18'59	
max. Darm dist.	15844 Sep 07 23:21	0ಂ ರ 75 .थ. 15 30	1.11073710	morning sec	15845 Aug 13 09:25	0° m)	
	10011 Sep 07 23:21	<u> </u>		max. Earth dist.	15845 Aug 16 16:41		1.43184 AU
superior conj	15844 Sep 11 06:35	5° ≏ 49'31	-0°58'35		8	•	
minimum elong	15844 Sep 11 11:15	6° ₽ 10'23	0°57'51	superior conj	15845 Aug 23 18:26	17° m 00'43	-1°33'49
asc. node	15844 Sep 18 05:39	18° ≏ 33'55		minimum elong	15845 Aug 24 01:50	17° Mp 32'00	1°33'12
evening rise	15844 Sep 21 11:17	24° ₽ 37'26			15845 Aug 31 06:48	0∘ ⊽	
	15844 Sep 24 08:22	0° M		evening rise	15845 Sep 04 12:52	7° ≏ 33'09	
evening max el	15844 Oct 07 09:02	20°M08'16	18°19'03	asc. node	15845 Sep 05 02:17	8° ჲ 32'59	
retrograde	15844 Oct 14 21:09	23°M57'39			15845 Sep 18 04:06	0°M₊	
evening set	15844 Oct 16 22:15	23°M41'16		evening max el	15845 Sep 20 21:06	3°M06'27	18°02'40
desc. node	15844 Oct 20 17:39	21°M53'41	1010111	retrograde	15845 Sep 27 14:41	6°M34'34	
inferior conj	15844 Oct 24 12:12	19°M 02'04		evening set	15845 Sep 29 23:03	6°M09'15	001.4157
minimum elong min. Earth dist.	15844 Oct 24 09:27 15844 Oct 27 18:21	19°M07'43	1°11'03	inferior conj	15845 Oct 06 19:51	1°ML09'56 1°ML08'47	0°14'57
min. Earth dist.	15844 Oct 27 18:21 15844 Oct 31 17:10	16°M21'48 13°M40'12	0.58499 AU	minimum elong transit middle	15845 Oct 06 20:20 15845 Oct 06 20:20	1°11L08'47 1°11L08'47	0°15'06 0°15'06
direct	15844 Nov 07 02:05	11°ML52'55		transit begin	15845 Oct 06 19:09	1°M11'36	0 13 00
morning max el	15844 Nov 21 09:11	19°M30'53	27°23'24	transit end	15845 Oct 06 21:31	1°M05'58	
morning man er	15844 Nov 30 07:52	0° ∡ 7	2, 232.	desc. node	15845 Oct 07 15:00	0°M24'03	
asc. node	15844 Dec 15 06:17	24° ∡ 19'36			15845 Oct 08 01:01	30° ₽ Ω	
	15844 Dec 18 04:05	ರ°0		min. Earth dist.	15845 Oct 09 22:52	28° ≙ 12'16	0.60775 AU
morning set	15844 Dec 22 07:57	8° ප 36'51		morning rise	15845 Oct 13 14:33	25° ≙ 18′09	
				direct	15845 Oct 20 06:10	23° ჲ 06'44	
superior conj	15844 Dec 29 04:58		1°36'16		15845 Nov 02 10:55	0° M	
minimum elong	15844 Dec 29 04:09	23° る 40'59	1°37'01	morning max el	15845 Nov 03 11:47	0°M59'48	27°56'49
max. Earth dist.	15844 Dec 29 01:22		1.31012 AU		15845 Nov 24 13:20	0°⊀	
	15844 Dec 31 23:57	0° ≈		asc. node	15845 Dec 02 03:17	13° ₹ 55'55	
evening rise	15845 Jan 04 23:20	8°≈42'01		morning set	15845 Dec 06 11:25	22° х 43'11	
JJ.	15845 Jan 15 20:31	0° \ 1° \ 27'22		Dandla diad	15845 Dec 09 21:16	0°중 5° 중 21'34	1 2110C ATT
desc. node evening max el	15845 Jan 16 16:39 15845 Feb 03 18:10	25° H 51'27	26045144	max. Earth dist.	15845 Dec 12 07:50	3 621 34	1.31196 AU
evening max er	15845 Feb 08 21:06	25 γ (3127	20 43 44	superior conj	15845 Dec 13 15:44	8° る 18'48	1°28'36
retrograde	15845 Feb 17 18:31	3° Υ '04'16		minimum elong	15845 Dec 13 14:03	8° ප 09'21	1°29'16
evening set	15845 Feb 24 06:23	1° Υ 18'59		evening rise	15845 Dec 20 08:17	23° る 07'02	1 29 10
<i>Ş</i>	15845 Feb 26 11:06	30° ₽ ₩		8	15845 Dec 23 14:21	0° ≈	
min. Earth dist.	15845 Feb 28 07:59	28°) 40′28	0.58955 AU	desc. node	15846 Jan 03 13:28	20°≈08'01	
inferior conj	15845 Mar 03 12:53	26° 米 11′29	-3°02'31		15846 Jan 10 10:59	0°) €	
minimum elong	15845 Mar 03 19:49	25° ¥ 57'59	2°59'49	evening max el	15846 Jan 16 12:04	6°) 42′58	25°30'55
morning rise	15845 Mar 11 12:47	21° ¥ 35'53		retrograde	15846 Jan 30 09:40	13°) (42′42	
asc. node	15845 Mar 13 03:54	21° ¥ 22′16		evening set	15846 Feb 05 05:42	12° ∺ 24'52	
direct	15845 Mar 13 12:12	21° ¥ 21'50		min. Earth dist.	15846 Feb 10 00:50	9°) (44'09	0.56890 AU
morning max el	15845 Mar 21 08:09		18°16'20	inferior conj	15846 Feb 12 20:08	7°) € 51'02	
	15845 Mar 25 07:49 15845 Apr 06 00:34	0° Υ 20° Υ 10'39		minimum elong morning rise	15846 Feb 13 05:27 15846 Feb 21 08:03	7°) 35′20 3°) 36′50	4°27'53
morning set	15845 Apr 11 05:42	0° 8		direct	15846 Feb 23 08:53	3° \ 24'26	
desc. node	15845 Apr 14 18:13	6° 8 29'54		asc. node	15846 Feb 28 01:16	4°) (34'24	
dese. node	130 13 11p1 11 10.13	0 02731		morning max el	15846 Mar 04 11:30	7° ¥ 51'42	19°01'59
superior conj	15845 Apr 15 13:14	7° 8 56'17	-0°06'35		15846 Mar 18 16:26	0°Υ	
minimum elong	15845 Apr 15 12:42	7° 8 53'50		morning set	15846 Mar 20 23:36	4° Y 29'50	
behind sun begin	15845 Apr 15 05:56	7° 8 23'13					
behind sun end	15845 Apr 15 19:27	8° 8 24'24		superior conj	15846 Mar 29 10:49	21° Y ′04'25	0°26'26
max. Earth dist.	15845 Apr 23 03:20	21° 8 14'28	1.41231 AU	minimum elong	15846 Mar 29 12:26	21° Y 12'06	0°25'56
evening rise	15845 Apr 27 18:46	28° 8 57'46		desc. node	15846 Apr 01 14:53	27° Y ′02'29	
	15845 Apr 28 10:04	0°Щ			15846 Apr 03 05:28	0° 8	
	15845 May 18 10:16	0.22	22005:2	max. Earth dist.	15846 Apr 05 09:44	3° 8 55'47	1.38964 AU
evening max el	15845 May 31 18:51	16°519'13	23~07'06	evening rise	15846 Apr 09 05:05	10° 8 35'17	
asc. node	15845 Jun 09 01:35	22°506'07			15846 Apr 21 05:39	0°€ 0°∏	
retrograde evening set	15845 Jun 11 04:07 15845 Jun 16 06:22	22°\$25'19 20°\$15'36		evening max el	15846 May 14 02:53 15846 May 14 08:37		24°28'16
min. Earth dist.	15845 Jun 16 06:22 15845 Jun 21 03:53	14°926'40	0.69081 AU	retrograde	15846 May 25 21:06	6°958'26	∠ + ∠0 10
inferior conj	15845 Jun 21 14:11	13°951'02	2°56'53	asc. node	15846 May 26 22:38	6°953'37	
minimum elong							
	15845 Jun 21 12:51	13° © 55'36	2°55'53	evening set	15846 May 31 10:52	4° © 36'43	
morning rise					•		
•	15845 Jun 21 12:51	13° © 55'36			15846 May 31 10:52	4° © 36'43	0.68617 AU

						_	
inferior conj	15846 Jun 05 22:49	28° Ⅱ 07'04	2°35'48	morning rise	15847 May 26 18:07	6° Ⅱ 29'44	
minimum elong	15846 Jun 05 20:52		2°34'35	direct	15847 May 30 04:15	5° Ⅱ 22'41	
morning rise	15846 Jun 11 07:00	22° Ⅱ 07'08		morning max el	15847 Jun 05 22:26	9° Ⅱ 01'27	18°54'22
direct	15846 Jun 15 04:08	20° Ⅱ 40′59		desc. node	15847 Jun 15 12:18	21° Ⅱ 15′13	
morning max el	15846 Jun 22 15:38	24° ∏ 51′03	19°50'39	greatest brilliancy	15847 Jun 19 08:17	26° Ⅱ 57'50	-0.8m
	15846 Jun 27 04:36	0 \circ \odot			15847 Jun 21 08:10	0 \circ \odot	
desc. node	15846 Jun 28 15:12	1° 5 50'59		morning set	15847 Jun 28 17:24	11° 5 23'15	
	15846 Jul 17 21:41	$0^{\circ}\Omega$		-	15847 Jul 10 16:59	$0^{\circ}\Omega$	
morning set	15846 Jul 19 08:12	2° Ω 12'15		max. Earth dist.	15847 Jul 13 00:03	3° Ω 34'53	1.45764 AU
max. Earth dist.	15846 Jul 30 05:45	19° Ω 10′22	1.44802 AU				
		., 00		superior conj	15847 Jul 14 23:14	6° Ω 39'33	-2°14'00
superior conj	15846 Aug 04 06:51	27° Ω 14'00	-2°01'26	minimum elong	15847 Jul 15 00:28	6°Ω44'23	
minimum elong	15846 Aug 04 13:52	27° Ω 42'18		minimum ciong	15847 Jul 29 15:39	0° m)	2 11 12
minimum ciong	15846 Aug 05 23:53	0°m)	2 01 50	evening rise	15847 Jul 30 03:15	0° Mp 46'45	
ovenina rice	15846 Aug 17 19:51	עוי ט 19° m y40'17		asc. node	15847 Aug 09 19:38	17° Mp 50'30	
evening rise asc. node	•			asc. node	•	0∘ ⊽	
asc. node	15846 Aug 22 22:57	28° m 20'25			15847 Aug 18 21:42		10005122
	15846 Aug 23 22:47	0° ⊽	1000 511 1	evening max el	15847 Aug 19 02:02	0° ჲ 10'48	18°25'33
evening max el	15846 Sep 04 11:56	16° Ω 30'37	18°05'11	retrograde	15847 Aug 25 12:10	3° Ω 36'56	
retrograde	15846 Sep 10 21:07	19° ≙ 51'00		evening set	15847 Aug 28 14:00	2° ≏ 44'01	
evening set	15846 Sep 13 13:57	19° ≙ 13'14			15847 Aug 31 21:33	30°R, MD	
inferior conj	15846 Sep 19 20:14	13° ≏ 55'53	1°22'51	inferior conj	15847 Sep 03 09:13	27° m 10'50	
minimum elong	15846 Sep 19 22:16	13° ≏ 50'24	1°22'17	minimum elong	15847 Sep 03 11:33	27° m 03'54	2°11'02
min. Earth dist.	15846 Sep 22 13:17	11° ≏ 01'25	0.63039 AU	min. Earth dist.	15847 Sep 05 13:07	24° m 36'47	0.65082 AU
desc. node	15846 Sep 24 12:24	9° ≏ 06'41		morning rise	15847 Sep 09 07:46	20° m 48'07	
morning rise	15846 Sep 26 04:24	7° ≏ 44'09		desc. node	15847 Sep 11 09:49	19° ™ 22'23	
direct	15846 Oct 02 20:27	5° ≙ 15'42		direct	15847 Sep 15 18:59	18° m)11'31	
morning max el	15846 Oct 16 19:50	13° ≏ 14'30	27°51'19	morning max el	15847 Sep 29 06:44	26° Mp 04'55	27°11'54
	15846 Oct 30 07:25	0°M₊		-	15847 Oct 02 21:53	0∘ ত	
	15846 Nov 17 01:38	0° ∡ ¹			15847 Oct 23 21:07	0° M	
asc. node	15846 Nov 19 00:13	3° ∡ ¹48'26		morning set	15847 Nov 03 18:47	19° M 43'29	
morning set	15846 Nov 20 07:56	6° х 27′37		asc. node	15847 Nov 05 21:04	23°M51'14	
max. Earth dist.	15846 Nov 25 09:26	17° ∡ *02'33	1.31950 AU	max. Earth dist.	15847 Nov 08 02:53	28°M23'34	1.33262 AU
man Darun Gibt.	100.01.07.20 03.20	17 7 0233	1.51750110	man. Darm uist.	15847 Nov 08 21:38	0° ₹	1.55202110
superior conj	15846 Nov 27 23:57	22° х 41'42	1°14'52		100171107 00 21.50	·	
minimum elong	15846 Nov 27 21:42	22° × ⁷ 29'22	1°15'22	superior conj	15847 Nov 12 03:24	6° ≯ '48'03	0°55'03
minimum clong	15846 Dec 01 07:41	0°る	1 13 22	minimum elong	15847 Nov 12 03:24 15847 Nov 12 01:06	6° ₹ 35'51	0°55'23
evening rise	15846 Dec 04 19:00	7° る 35'09		evening rise	15847 Nov 12 01:00 15847 Nov 19 05:34	22° × ⁷ 01'19	0 33 23
evening rise		0°≈		evening rise		0°る	
	15846 Dec 16 06:48			1 1	15847 Nov 23 01:28		
desc. node	15846 Dec 21 10:22	7°≈57'10	22052116	desc. node	15847 Dec 08 07:22	24° る 36'30	22010110
evening max el	15846 Dec 28 23:03	16°≈52'25	23°53'16	evening max el	15847 Dec 10 09:42	26°₹48'48	22°10'10
retrograde	15847 Jan 11 11:07	23° ≈ 34'10		_	15847 Dec 14 05:12	0° ≈	
evening set	15847 Jan 16 06:11	22° ≈ 44'21		retrograde	15847 Dec 23 00:36	3° ≈ 03'22	
min. Earth dist.	15847 Jan 22 10:30	19° ≈ 44′03	0.55308 AU	evening set	15847 Dec 26 12:41	2° ≈ 36'13	
inferior conj	15847 Jan 24 06:29	18° ≈ 38'41			15848 Jan 01 18:21	30°Ŗる	
minimum elong	15847 Jan 24 13:26	18° ≈ 28′20	5°37'40	min. Earth dist.	15848 Jan 03 16:06		0.54475 AU
morning rise	15847 Feb 01 22:20	14° ≈ 42'38		inferior conj	15848 Jan 04 01:06	28° る 44'26	-6°01'13
direct	15847 Feb 04 10:16	14° ≈ 26′56		minimum elong	15848 Jan 03 23:39	28° る 46'29	6°00'26
asc. node	15847 Feb 14 22:38	19° ≈ 28'31		morning rise	15848 Jan 12 11:33	24° る 57'15	
morning max el	15847 Feb 15 01:54	19° ≈ 36′23	20°10'38	direct	15848 Jan 15 20:58	24° る 31'40	
	15847 Feb 23 01:22	0° ∀			15848 Jan 27 14:52	0° ≈	
morning set	15847 Mar 05 05:23	19°)(04'44		morning max el	15848 Jan 28 01:17	0° ≈ 24'29	21°41'58
	15847 Mar 10 13:10	$0^{\circ}\mathbf{\Upsilon}$		asc. node	15848 Feb 01 19:58	5° ≈ 48'57	
					15848 Feb 15 19:29	0° ∀	
superior conj	15847 Mar 12 22:10	4° Ƴ 48'29	0°53'30	morning set	15848 Feb 17 15:15	3°){ 47'44	
minimum elong	15847 Mar 13 00:40	5° Y 00'59	0°53'07	Ü			
max. Earth dist.	15847 Mar 18 16:36	16° Y ′03'49	1.36704 AU	superior conj	15848 Feb 24 19:32	18°) 58'30	1°14'06
desc. node	15847 Mar 19 11:31	17° Y 32'51	1.5070.110	minimum elong	15848 Feb 24 21:58	19°) 11'16	1°14'01
evening rise	15847 Mar 22 10:48	23° Y '00'58		max. Earth dist.	15848 Feb 29 04:18	27°) 55'54	1.34666 AU
ovening 1150	15847 Mar 26 09:43	0° 8		max. Lattii Uist.	15848 Mar 01 05:12	27 γ (33 34	1.57000 AU
		0°U		avaning rise		6° Υ 05'33	
avanir 1	15847 Apr 14 23:32		25042107	evening rise	15848 Mar 04 08:29		
evening max el	15847 Apr 26 22:16	14° ∏ 08'15	25°43'07	desc. node	15848 Mar 05 08:09	7° Y 57'22	
retrograde	15847 May 09 09:32	21° I I19'29			15848 Mar 18 03:31	0°8	26044100
asc. node	15847 May 13 19:48	20° I I00'00		evening max el	15848 Apr 08 12:05	27° 8 54'06	26~44'08
evening set	15847 May 15 10:20	18° Ⅱ 49'46			15848 Apr 10 18:45	0°П	
min. Earth dist.	15847 May 19 15:58	14° Ⅱ 14'29	0.67685 AU	retrograde	15848 Apr 21 16:31	5° Ⅲ 21'00	
inferior conj	15847 May 21 04:08	12° ∏ 19'19	2°03'45	evening set	15848 Apr 28 02:54	2° ∐ 48'27	
minimum elong	15847 May 21 01:57	12° ∏ 26′17	2°02'23	asc. node	15848 Apr 29 17:02	1° Ⅲ 23'32	

	15848 May 01 01:14	30° ₹ 8		asc. node	15849 Apr 16 14:19	11° 8 29'41	
min. Earth dist.	15848 May 02 02:48	28° 8 47'59	0.66311 AU	inferior conj	15849 Apr 17 19:35	10° 8 10'15	0°22'52
inferior conj	15848 May 04 03:55	26° 8 22'45	1°19'49	minimum elong	15849 Apr 17 18:56	10° 8 11'59	0°22'09
minimum elong	15848 May 04 02:06	26° 8 28'11	1°18'34	morning rise	15849 Apr 24 05:33	4° 8 46'40	0 22 0)
morning rise	15848 May 10 02:30	20° 8 45'10	1 1031	direct	15849 Apr 26 20:21	4° 8 11'23	
direct	15848 May 13 02:30	19° 8 55'22		morning max el	15849 May 03 04:08	7° 8 26'24	17°51'49
morning max el	15848 May 19 11:24	23° 8 15'58	18°14'35	morning man vi	15849 May 18 12:47	0°II	1, 51.5
morning man vi	15848 May 25 00:56	0°II	10 1.55	desc. node	15849 May 19 06:10	1° Ⅱ 12'32	
desc. node	15848 Jun 01 09:17	11° Ⅱ 04'57		morning set	15849 May 20 11:08	3° ∏ 13′29	
morning set	15848 Jun 08 00:35	21° ∏ 39′24		<i>5 5 1 1 1 1 1 1 1 1 1 1</i>	,		
. 8	15848 Jun 13 06:14	0ಂತಾ		superior conj	15849 Jun 03 02:46	25° Ⅱ 35'17	-1°41'31
				minimum elong	15849 Jun 02 18:07	25° Ⅱ 00'42	1°41'28
superior conj	15848 Jun 23 08:14	15° © 52'02	-2°06'41	C	15849 Jun 05 21:22	0°ಅ	
minimum elong	15848 Jun 23 02:01	15° © 27'45	2°07'12	max. Earth dist.	15849 Jun 07 16:27	2° © 49'53	1.45442 AU
max. Earth dist.	15848 Jun 24 20:39	18° © 14'10	1.45981 AU	evening rise	15849 Jun 18 23:27	20°519'44	
	15848 Jul 02 10:04	$0^{\circ}\Omega$			15849 Jun 25 08:13	$0^{\circ}\Omega$	
evening rise	15848 Jul 09 10:02	10° Ω 52'47		greatest brilliancy	15849 Jul 03 18:09	12° Ω 28'30	-0.6m
greatest brilliancy	15848 Jul 20 04:14	27° Ω 29'05	-0.8m	asc. node	15849 Jul 13 13:08	25° Ω 31′26	
	15848 Jul 21 20:23	0° m)		evening max el	15849 Jul 15 17:49	27° Ω 53′00	19°56'29
asc. node	15848 Jul 26 16:22	6° ™ 57'00			15849 Jul 18 03:03	0° ™	
evening max el	15848 Aug 01 12:37	14° m 00'03	19°03'01	retrograde	15849 Jul 23 07:07	2° Mp 09'03	
retrograde	15848 Aug 08 08:26	17° m 45'07		evening set	15849 Jul 27 04:32	0° m 41'43	
evening set	15848 Aug 11 19:44	16° Mp 35'23		-	15849 Jul 28 00:42	30° ₽ Ω	
inferior conj	15848 Aug 17 07:21	10° Mp 48'13	2°44'11	inferior conj	15849 Aug 01 11:42	24° Ω 42'12	3°02'35
minimum elong	15848 Aug 17 09:14	10° m 42'12	2°43'30	minimum elong	15849 Aug 01 12:45	24° Ω 38'41	3°01'57
min. Earth dist.	15848 Aug 18 21:12	8° Mp 46'53	0.66772 AU	min. Earth dist.	15849 Aug 02 11:38	23° Ω 21′20	0.68028 AU
morning rise	15848 Aug 22 21:58	4° m/21'39		morning rise	15849 Aug 06 20:32	18° Ω 16′56	
desc. node	15848 Aug 28 07:14	1° Mp 47'26		direct	15849 Aug 12 12:36	15° Ω 48'25	
direct	15848 Aug 29 00:44	1° Mp 45'22		desc. node	15849 Aug 15 04:36	16° Ω 16′22	
morning max el	15848 Sep 10 18:19	9° m 19'50	26°06'30	morning max el	15849 Aug 24 05:21	22° Ω 48'48	24°44'35
-	15848 Sep 27 01:52	0∘ ⊽			15849 Aug 30 13:29	0° ™	
	15848 Oct 15 09:25	0° M			15849 Sep 20 09:20	0∘ ⊽	
morning set	15848 Oct 16 16:42	2°M23'41		morning set	15849 Sep 28 21:43	14° ≏ 19'33	
max. Earth dist.	15848 Oct 20 10:41	9° ™ 29'44	1.35089 AU	max. Earth dist.	15849 Oct 02 10:52	20° ≏ 40'22	1.37313 AU
asc. node	15848 Oct 22 17:50	14°ML00'02			15849 Oct 07 10:37	0° M	
superior conj	15848 Oct 25 23:30	20°M31'26	0°29'15	superior conj	15849 Oct 09 09:08	3°M44'46	-0°02'03
minimum elong	15848 Oct 25 21:55	20° M $23'22$	0°29'31	minimum elong	15849 Oct 09 09:15	3°M45'19	0°01'39
	15848 Oct 30 13:09	0° ∡ ¹		behind sun begin	15849 Oct 09 02:38	3°M13'08	
evening rise	15848 Nov 02 14:01	6° х 20′39		behind sun end	15849 Oct 09 15:51	4° ጤ 17'35	
	15848 Nov 15 10:22	0°ಕ		asc. node	15849 Oct 09 14:33	4° ጤ 11'12	
evening max el	15848 Nov 21 05:40	7° る 09'36	20°38'18	evening rise	15849 Oct 17 18:06	20° M27'42	
desc. node	15848 Nov 24 04:27	9° る 42'44			15849 Oct 22 14:23	0° ∡ ¹	
retrograde	15848 Dec 02 10:53	12° る 44'04		evening max el	15849 Nov 03 16:10	18° ∡ 18'34	19°26'49
evening set	15848 Dec 04 20:42	12° る 29'47		desc. node	15849 Nov 11 01:36	22° ∡ ′51′53	
inferior conj	15848 Dec 13 16:26	8° る 36'24		retrograde	15849 Nov 13 06:09	23° х 06′29	
minimum elong	15848 Dec 13 07:26	8° る 49'24		evening set	15849 Nov 15 04:14	22° ₹ 55'46	
min. Earth dist.	15848 Dec 14 21:36		0.54561 AU	inferior conj	15849 Nov 23 19:01	18° ≯ 49'20	
morning rise	15848 Dec 21 18:01	4° る 39'48		minimum elong	15849 Nov 23 09:41	19° ∡ °04'27	
direct	15848 Dec 26 04:46	3° る 57'18		min. Earth dist.	15849 Nov 26 06:27	17° ∡ 13'17	0.55565 AU
morning max el	15849 Jan 08 13:00	10° る 28'51	23°29'15	morning rise	15849 Dec 01 13:01	14° ∡ *24'49	
asc. node	15849 Jan 18 17:15	23° る 16'45		direct	15849 Dec 06 22:29	13° ∡ 19'07	
	15849 Jan 22 18:15	0° ≈		morning max el	15849 Dec 20 21:52	20° ∡ °21'47	25°17'06
morning set	15849 Feb 01 03:00	18° ≈ 31'40			15849 Dec 29 03:26	0°る	
	15849 Feb 06 09:58	0° ∀		asc. node	15850 Jan 05 14:28	11° る 35'43	
					15850 Jan 15 02:54	0° ≈	
superior conj	15849 Feb 07 23:46	3° ¥ 25′05	1°28'16	morning set	15850 Jan 16 14:45	3° ≈ 11'27	
minimum elong	15849 Feb 08 01:34	3°) (34'49	1°28'33				
max. Earth dist.	15849 Feb 10 23:07	9°) 46'28	1.33010 AU	superior conj	15850 Jan 23 08:27	18° ≈ 01'19	1°36'09
evening rise	15849 Feb 15 18:37	19°) (39′24		minimum elong	15850 Jan 23 09:18	18°≈05'59	1°36'44
desc. node	15849 Feb 20 04:46	28°) 11′05		max. Earth dist.	15850 Jan 25 00:58	21°≈44'24	1.31829 AU
	15849 Feb 21 04:18	0° Υ			15850 Jan 28 20:57	0°) {	
	15849 Mar 12 04:56	0°8		evening rise	15850 Jan 30 14:14	3°) ₹35'35	
evening max el	15849 Mar 22 01:13	11° 8 20'56	27°24'01	desc. node	15850 Feb 07 01:26	18°) €09'00	
retrograde	15849 Apr 04 17:14	18° 8 53'09			15850 Feb 13 22:34	0°Υ	
evening set	15849 Apr 11 10:25	16° 8 24'23		evening max el	15850 Mar 04 12:08	24° Y 17'39	27°35'50
min. Earth dist.	15849 Apr 15 06:10	12° 8 55'29	0.64543 AU		15850 Mar 12 01:10	0°8	

rotro aro do	15950 Mar. 19, 10:20	1° 8 46'16		arraning may al	15851 Feb 14 18:29	6° Ƴ 32'21	27014114
retrograde	15850 Mar 18 10:39	_		evening max el		13° Υ 51'14	2/ 14 14
	15850 Mar 24 10:37	30° ₹ Υ		retrograde	15851 Feb 28 19:08		
evening set	15850 Mar 25 06:23	29° Y 28'55		evening set	15851 Mar 07 11:49	11° Υ 52'48	
min. Earth dist.	15850 Mar 29 00:34		0.62471 AU	min. Earth dist.	15851 Mar 11 08:52	9° Y ′08′23	0.60235 AU
inferior conj	15850 Apr 01 00:03	23° Y 34'30		inferior conj	15851 Mar 14 13:48	6° Y 26′28	
minimum elong	15850 Apr 01 01:40	23° Ƴ 30'37	0°47'22	minimum elong	15851 Mar 14 18:41	6° Ƴ 16′08	2°09'00
asc. node	15850 Apr 03 11:39	21° Y 17'12		asc. node	15851 Mar 21 09:00	1° Y 54'15	
morning rise	15850 Apr 07 23:54	18° Ƴ 27'15		morning rise	15851 Mar 22 05:00	1° Y 38'18	
direct	15850 Apr 10 06:50	18° Y 03'04		direct	15851 Mar 24 06:13	1° Y 21'32	
morning max el	15850 Apr 16 21:44	21° Y ′24'10	17°46'33	morning max el	15851 Mar 31 12:52	4° Ƴ 59'44	17°59'47
morning man er	15850 Apr 23 12:10	0°8	17 .033	morning set	15851 Apr 16 02:37	29° Y 27'31	1, 0, 1,
morning set	15850 May 02 21:45	15° 8 55'13		morning set	15851 Apr 16 09:40	0°8	
desc. node	-			JJ.	•	12° 8 01'06	
desc. node	15850 May 06 02:57	21° 8 32'39		desc. node	15851 Apr 22 23:42	12.001.00	
	15850 May 11 00:42	Π $^{\circ}$ 0					
				superior conj	15851 Apr 26 09:22	18° 8 03'47	
superior conj	15850 May 14 18:17	6° Ⅱ 17'18		minimum elong	15851 Apr 26 06:59	17° 8 53'20	0°27'49
minimum elong	15850 May 14 12:07	5° Ⅱ 51'36	1°05'46		15851 May 03 08:58	Π $^{\circ}$ 0	
max. Earth dist.	15850 May 21 09:23	17° Ⅱ 07'34	1.44219 AU	max. Earth dist.	15851 May 03 22:24	0° Ⅱ 55'42	1.42437 AU
evening rise	15850 May 29 11:22	29° Ⅱ 50′08		evening rise	15851 May 09 12:57	10° Ⅱ 01'48	
Č	15850 May 29 13:55	0 \circ \odot		C	15851 May 22 15:28	0° ©	
	15850 Jun 19 00:37	0°N		evening max el	15851 Jun 11 11:00	25° © 40'35	22°20'35
evening max el	15850 Jun 28 16:59	11° Ω 46'29	21902/20	evening max er	15851 Jun 16 19:05	0°Ω	22 20 33
•		$13^{\circ}\Omega 22'29$	21 03 39	1		0°Ω16'22	
asc. node	15850 Jun 30 09:59			asc. node	15851 Jun 17 06:55		
retrograde	15850 Jul 07 06:05	16° Ω 42'38		retrograde	15851 Jun 21 03:39	1° Ω 20′59	
evening set	15850 Jul 11 14:17	14° Ω 57'49			15851 Jun 25 02:32	30° ₹ ∽	
inferior conj	15850 Jul 16 19:49	8° Ω 47'18	3°08'54	evening set	15851 Jun 25 23:17	29° © 19'45	
minimum elong	15850 Jul 16 19:54	8° Ω 47'01	3°08'12	inferior conj	15851 Jul 01 05:39	22° © 59'54	3°04'16
min. Earth dist.	15850 Jul 17 06:14	8° Ω 11'07	0.68820 AU	minimum elong	15851 Jul 01 04:48	23°902'52	3°03'25
morning rise	15850 Jul 22 01:14	2° Ω 26′53		min. Earth dist.	15851 Jul 01 02:53	23° © 09'33	0.69128 AU
direct	15850 Jul 27 05:30	0° Ω 11'59		morning rise	15851 Jul 06 10:09	16° 5 46'29	
desc. node	15850 Aug 02 01:56	2°Ω26'01		direct	15851 Jul 11 02:07	14°9549'17	
	15850 Aug 02 01:50		23°15'38	desc. node	15851 Jul 19 23:11	19°952'48	
morning max el			23 13 36				21040120
	15850 Aug 24 23:53	0° т р		morning max el	15851 Jul 20 06:19	20°9510'28	21°48'30
morning set	15850 Sep 10 05:30	25° m 20'04			15851 Jul 28 13:31	0 \circ Ω	
	15850 Sep 12 23:57	0∘ ⊽			15851 Aug 18 04:09	0° m	
max. Earth dist.	15850 Sep 14 09:22	2° £ 23'19	1.39720 AU	morning set	15851 Aug 21 13:24	5° m 19'45	
				max. Earth dist.	15851 Aug 27 12:37	15° m 00'08	1.42023 AU
superior conj	15850 Sep 22 04:25	16° ₽ 18'24	-0°37'24				
minimum elong	15850 Sep 22 07:14	16° ₽ 31'23	0°36'45	superior conj	15851 Sep 04 05:00	28° m 02'48	-1°13'59
asc. node	15850 Sep 26 11:12	24° £ 20′28		minimum elong	15851 Sep 04 10:59	28° m/28'57	
ase. Houe	15850 Sep 29 10:05	0°M		minimum ciong	15851 Sep 05 07:46	0° ⊽	1 13 14
	=				•		
evening rise	15850 Oct 01 14:54	4° ጤ 14'37		asc. node	15851 Sep 13 07:52	14° £ 24'43	
	15850 Oct 17 09:14	0° ∡ ¹		evening rise	15851 Sep 15 00:49	17° ≏ 32'38	
evening max el	15850 Oct 17 15:49	0° ∡ 16'46	18°37'37		15851 Sep 21 22:47	0°M₊	
retrograde	15850 Oct 25 19:08	4° ₹ 123'44		evening max el	15851 Oct 01 00:36	12°M56'10	18°09'39
evening set	15850 Oct 27 17:29	4° ≯ 10'36		retrograde	15851 Oct 08 03:19	16°M34'33	
desc. node	15850 Oct 28 22:51	3° ∡ ¹49'27		evening set	15851 Oct 10 07:26	16° M ₊14'42	
	15850 Nov 04 09:03	30°RML		desc. node	15851 Oct 15 20:08	12°M55'50	
inferior conj	15850 Nov 04 17:35	29°M43'58	-2°10'35	inferior conj	15851 Oct 17 13:52	11° M 26'29	-0°33'15
minimum elong	15850 Nov 04 12:19	29°M53'53		minimum elong	15851 Oct 17 12:42	11°M29'03	0°32'19
min. Earth dist.	15850 Nov 07 20:59		0.57299 AU	min. Earth dist.	15851 Oct 20 19:43	8°M36'34	0.59463 AU
		24°M43'05	0.372)) AU			5°M51'06	0.57405 AO
morning rise	15850 Nov 12 03:51			morning rise	15851 Oct 24 14:39		
direct	15850 Nov 18 06:22	23°ML10'49		direct	15851 Oct 31 03:20	3° ™ 53'04	
	15850 Dec 01 20:08	0° ∡ ¹		morning max el	15851 Nov 14 09:57	11°M37'16	27°42'23
morning max el			26046124			00.7	
asc. node	15850 Dec 02 11:46	0° ∡ ³37′03	26°46'24		15851 Nov 28 20:08	0° ∡ 7	
	15850 Dec 02 11:46 15850 Dec 23 11:35	0° る 32'18	20*40 24	asc. node	15851 Nov 28 20:08 15851 Dec 10 08:38	19° ∡ ¹56'41	
			20*40 24	asc. node			
morning set	15850 Dec 23 11:35	0° る 32'18	20~40.24	asc. node morning set	15851 Dec 10 08:38	19° ∡ ¹56'41	
morning set	15850 Dec 23 11:35 15850 Dec 23 04:34	0° ට 32'18 0°ට	20*40 24		15851 Dec 10 08:38 15851 Dec 15 08:40	19° メ *56'41 0° る	1.31031 AU
morning set	15850 Dec 23 11:35 15850 Dec 23 04:34 15851 Jan 01 00:46	0° ප 32'18 0°ප 17° ප් 41'54	20.40.24	morning set	15851 Dec 10 08:38 15851 Dec 15 08:40 15851 Dec 16 07:13	19° 尽 56'41 0°궁 1°궁58'40	1.31031 AU
-	15850 Dec 23 11:35 15850 Dec 23 04:34 15851 Jan 01 00:46 15851 Jan 06 14:44	0°♂32'18 0°♂ 17°♂41'54 0°≈		morning set max. Earth dist.	15851 Dec 10 08:38 15851 Dec 15 08:40 15851 Dec 16 07:13 15851 Dec 22 15:19	19° メ 56'41 0°る 1°る58'40 15°る50'45	
superior conj	15850 Dec 23 11:35 15850 Dec 23 04:34 15851 Jan 01 00:46 15851 Jan 06 14:44 15851 Jan 07 19:27	0°♂32'18 0°♂ 17°♂41'54 0°≈ 2°≈40'38	1°37'57	morning set max. Earth dist.	15851 Dec 10 08:38 15851 Dec 15 08:40 15851 Dec 16 07:13 15851 Dec 22 15:19 15851 Dec 23 06:52	19° ₹56'41 0° で 1° で58'40 15° で50'45	1°33'45
superior conj minimum elong	15850 Dec 23 11:35 15850 Dec 23 04:34 15851 Jan 01 00:46 15851 Jan 06 14:44 15851 Jan 07 19:27 15851 Jan 07 19:14	0°♂32'18 0°♂ 17°♂41'54 0°≈ 2°≈40'38 2°≈39'24	1°37'57 1°38'41	morning set max. Earth dist.	15851 Dec 10 08:38 15851 Dec 15 08:40 15851 Dec 16 07:13 15851 Dec 22 15:19 15851 Dec 23 06:52 15851 Dec 23 05:39	19° ₹56'41 0° ♂ 1°♂58'40 15°♂50'45 17°♂17'43 17°♂10'55	
superior conj minimum elong max. Earth dist.	15850 Dec 23 11:35 15850 Dec 23 04:34 15851 Jan 01 00:46 15851 Jan 06 14:44 15851 Jan 07 19:27 15851 Jan 07 19:14 15851 Jan 08 07:31	0°る32'18 0°る 17°る41'54 0°≈ 2°≈40'38 2°≈39'24 3°≈48'03	1°37'57	morning set max. Earth dist. superior conj minimum elong	15851 Dec 10 08:38 15851 Dec 15 08:40 15851 Dec 16 07:13 15851 Dec 22 15:19 15851 Dec 23 06:52 15851 Dec 23 05:39 15851 Dec 29 00:06	19°₹56'41 0°♂ 1°♂58'40 15°♂50'45 17°♂17'43 17°♂10'55 0°≈	1°33'45
superior conj minimum elong	15850 Dec 23 11:35 15850 Dec 23 04:34 15851 Jan 01 00:46 15851 Jan 06 14:44 15851 Jan 07 19:27 15851 Jan 07 19:14 15851 Jan 08 07:31 15851 Jan 14 16:44	0°る32'18 0°る 17°る41'54 0°≈ 2°≈40'38 2°≈39'24 3°≈48'03 17°≈47'19	1°37'57 1°38'41	morning set max. Earth dist. superior conj minimum elong evening rise	15851 Dec 10 08:38 15851 Dec 15 08:40 15851 Dec 16 07:13 15851 Dec 22 15:19 15851 Dec 23 06:52 15851 Dec 23 05:39 15851 Dec 29 00:06 15851 Dec 29 23:57	19°柔56'41 0°る 1°る58'40 15°る50'45 17°る17'43 17°る10'55 0°≈ 2°≈09'14	1°33'45
superior conj minimum elong max. Earth dist.	15850 Dec 23 11:35 15850 Dec 23 04:34 15851 Jan 01 00:46 15851 Jan 06 14:44 15851 Jan 07 19:27 15851 Jan 07 19:14 15851 Jan 08 07:31	0°♂32'18 0°♂ 17°♂41'54 0°≈ 2°≈40'38 2°≈39'24 3°≈48'03 17°≈47'19	1°37'57 1°38'41	morning set max. Earth dist. superior conj minimum elong	15851 Dec 10 08:38 15851 Dec 15 08:40 15851 Dec 16 07:13 15851 Dec 22 15:19 15851 Dec 23 06:52 15851 Dec 23 05:39 15851 Dec 29 00:06	19° ₹56'41 0° ♂ 1° ♂58'40 15° ♂50'45 17° ♂17'43 17° ♂10'55 0° ≈ 2° ≈09'14 26° ≈48'24	1°33'45
superior conj minimum elong max. Earth dist.	15850 Dec 23 11:35 15850 Dec 23 04:34 15851 Jan 01 00:46 15851 Jan 06 14:44 15851 Jan 07 19:27 15851 Jan 07 19:14 15851 Jan 08 07:31 15851 Jan 14 16:44	0°♂32'18 0°♂ 17°♂41'54 0°≈ 2°≈40'38 2°≈39'24 3°≈48'03 17°≈47'19 0°ዧ 7°ዧ44'23	1°37'57 1°38'41	morning set max. Earth dist. superior conj minimum elong evening rise	15851 Dec 10 08:38 15851 Dec 15 08:40 15851 Dec 16 07:13 15851 Dec 22 15:19 15851 Dec 23 06:52 15851 Dec 23 05:39 15851 Dec 29 00:06 15851 Dec 29 23:57	19°柔56'41 0°る 1°る58'40 15°る50'45 17°る17'43 17°る10'55 0°≈ 2°≈09'14	1°33'45
superior conj minimum elong max. Earth dist. evening rise	15850 Dec 23 11:35 15850 Dec 23 04:34 15851 Jan 01 00:46 15851 Jan 06 14:44 15851 Jan 07 19:27 15851 Jan 07 19:14 15851 Jan 08 07:31 15851 Jan 14 16:44 15851 Jan 20 17:30	0°♂32'18 0°♂ 17°♂41'54 0°≈ 2°≈40'38 2°≈39'24 3°≈48'03 17°≈47'19	1°37'57 1°38'41	morning set max. Earth dist. superior conj minimum elong evening rise	15851 Dec 10 08:38 15851 Dec 15 08:40 15851 Dec 16 07:13 15851 Dec 22 15:19 15851 Dec 23 06:52 15851 Dec 23 05:39 15851 Dec 29 00:06 15851 Dec 29 23:57 15852 Jan 11 18:56	19° ₹56'41 0° ♂ 1° ♂58'40 15° ♂50'45 17° ♂17'43 17° ♂10'55 0° ≈ 2° ≈09'14 26° ≈48'24	1°33'45 1°34'28

retrograde	15852 Feb 10 16:49	25° 米 01'38 23° 米 27'49		evening max el	15853 Jan 08 07:54	28°≈26'26 0°¥	24°51'08
evening set min. Earth dist.	15852 Feb 16 23:11 15852 Feb 21 06:46	23° X 27'49 20° X 50'23	0.58039 AU	retrograde	15853 Jan 10 01:25 15853 Jan 22 02:13	0° π 5° ∺ 19'27	
inferior conj	15852 Feb 24 09:02	18° ¥ 35′08		evening set	15853 Jan 27 13:00	4° ¥ 13′25	
minimum elong	15852 Feb 24 17:19	18° ¥ 20′01	3°37'55	min. Earth dist.	15853 Feb 01 19:57	1° ¥ 26'57	0.56144 AU
morning rise	15852 Mar 03 14:41	14° \(\) 08'31	3 37 33	inferior conj	15853 Feb 04 07:16	29°≈52'55	
direct	15852 Mar 05 14:01	13° ¥ 55'32		minimum elong	15853 Feb 04 16:23	29°≈38'26	
asc. node	15852 Mar 07 06:23	14°) €05'23			15853 Feb 04 02:49	30°R≈	
morning max el	15852 Mar 13 21:43	18° 米 01'37	18°33'04	morning rise	15853 Feb 12 22:10	25° ≈ 47'31	
•	15852 Mar 22 12:29	0° Y		direct	15853 Feb 15 02:24	25° ≈ 34'25	
morning set	15852 Mar 29 20:15	13° Y 33'33		asc. node	15853 Feb 22 03:46	28° ≈ 02'58	
	15852 Apr 07 11:14	0° 8			15853 Feb 24 12:25	0°)	
				morning max el	15853 Feb 24 20:06	0° ¥ 18′23	19°28'21
superior conj	15852 Apr 07 21:07	0° 8 45'52	0°08'06	morning set	15853 Mar 13 22:33	28° ₩ 01'02	
minimum elong	15852 Apr 07 21:40	0° 8 48'24	0°07'40		15853 Mar 14 22:16	0° Y	
behind sun begin	15852 Apr 07 15:25	0° 8 19'24					
behind sun end	15852 Apr 08 03:55	1° 8 17'20		superior conj	15853 Mar 22 01:09	14° Ƴ 11'30	
desc. node	15852 Apr 08 20:24	2° 8 33'19		minimum elong	15853 Mar 22 03:16	14° Y 21'51	0°38'11
max. Earth dist.	15852 Apr 15 07:13	14° 8 04'00	1.40282 AU	desc. node	15853 Mar 26 17:05	23° Y 05'52	
evening rise	15852 Apr 19 11:04	21° 8 07'53		max. Earth dist.	15853 Mar 28 13:24	26° Y 30′22	1.37988 AU
	15852 Apr 24 22:04	$0^{\circ}\Pi$			15853 Mar 30 11:47	0° 8	
	15852 May 15 17:47	0°©		evening rise	15853 Apr 01 06:02	3° 8 07'08	
evening max el	15852 May 24 01:40	9°934'57	23°41'57		15853 Apr 18 00:40	0°II	25001111
asc. node	15852 Jun 03 03:57	15°955'08		evening max el	15853 May 06 15:03	23° Ⅱ 29'18	25°01'11
retrograde	15852 Jun 03 22:36	15°957'45			15853 May 15 21:32	0°©	
evening set	15852 Jun 09 05:54	13°542'19	0.69045 ATT	retrograde	15853 May 18 13:47	0°526'44	
min. Earth dist.	15852 Jun 13 23:26 15852 Jun 14 15:15	8° © 09'29 7° © 15'20	0.68945 AU 2°49'13	asc. node	15853 May 21 01:02	0°501'12 30°R∏	
inferior conj minimum elong	15852 Jun 14 15:15 15852 Jun 14 13:38	7°920'54	2°49'13 2°48'08	evening set	15853 May 21 02:22 15853 May 24 08:28	28° Ⅱ 00'43	
morning rise	15852 Jun 19 21:21	1°9510'24	2 40 00	min. Earth dist.	15853 May 28 17:54	23° I I04'48	0.68279 AU
morning rise	15852 Jun 21 20:07	1 € 10 24 30°R∏		inferior conj	15853 May 29 22:42	23 H 0448 21° H 30'02	
direct	15852 Jun 24 01:13	29° Ⅱ 32'53		minimum elong	15853 May 29 20:36	21° II 36'57	2°22'17
ancet	15852 Jun 26 08:55	0°95		morning rise	15853 Jun 04 09:03	15° I 34'33	2 22 17
morning max el	15852 Jul 02 01:52	4°905'58	20°30'01	direct	15853 Jun 08 01:20	14° I 16'53	
desc. node	15852 Jul 05 20:25	8°916'21	20 30 01	morning max el	15853 Jun 15 04:37	18° Ⅱ 12'04	19°24'46
	15852 Jul 21 11:37	0° Ω		desc. node	15853 Jun 22 17:34	27° I I21'50	
morning set	15852 Jul 31 00:29	14° Ω 27'37			15853 Jun 24 14:44	0° ©	
max. Earth dist.	15852 Aug 08 22:37	28° Ω 29'04	1.43947 AU	greatest brilliancy	15853 Jun 27 20:28	4° 5 641'39	-0.7m
	15852 Aug 09 21:16	0° m)		morning set	15853 Jul 10 04:22	23°521'03	
					15853 Jul 14 11:55	$0^{\circ}\Omega$	
superior conj	15852 Aug 15 06:54	8° m 48'54	-1°46'53	max. Earth dist.	15853 Jul 22 14:01	12° Ω 36′06	1.45294 AU
minimum elong	15852 Aug 15 14:43	9° m 21'15	1°46'30				
evening rise	15852 Aug 27 19:09	0° ჲ 09'26		superior conj	15853 Jul 26 09:43	18° Ω 38'17	-2°09'02
	15852 Aug 27 16:59	0∘ 亚		minimum elong	15853 Jul 26 14:54	18° Ω 58'55	2°09'24
asc. node	15852 Aug 30 04:31	4° ഫ 19'33			15853 Aug 02 11:23	0° ™	
evening max el	15852 Sep 13 14:14	26° ≏ 06'17	18°01'27	evening rise	15853 Aug 09 16:33	11° m 51'37	
retrograde	15852 Sep 20 03:06	29° ≏ 29'42		asc. node	15853 Aug 17 01:10	24° Mp 00'12	
evening set	15852 Sep 22 14:57	28° ≏ 59'28			15853 Aug 20 20:11	0∘ ⊽	
inferior conj	15852 Sep 29 05:09	23° Ω 51'50	0°46'08	evening max el	15853 Aug 28 05:02	9° ≏ 37'34	18°11'43
minimum elong	15852 Sep 29 06:29	23° △ 48'29	0°45'55	retrograde	15853 Sep 03 13:44	12° ♀ 59'12	
desc. node	15852 Oct 01 17:28	21° ₽ 19'53	0.61751.411	evening set	15853 Sep 06 10:12	12° £ 15'25	1045146
min. Earth dist.	15852 Oct 02 04:21	20° ♀ 53'24	0.61751 AU	inferior conj	15853 Sep 12 11:21	6° ₽ 51'05	1°45'46
morning rise direct	15852 Oct 05 19:20 15852 Oct 12 11:38	17° ♀ 50'15 15° ♀ 30'59		minimum elong min. Earth dist.	15853 Sep 12 13:37	6° ♀ 44'38 4° ♀ 03'16	1°45'05 0.63935 AU
morning max el	15852 Oct 12 11.38 15852 Oct 26 15:25	13 ≥ 30 39 23° ♀ 27'25	27°59'09	morning rise	15853 Sep 14 23:02 15853 Sep 18 15:12	4 ≗ 03 10 0° ჲ 33'20	0.03933 AU
morning max er	15852 Nov 01 12:27	0°M	21 39 09	desc. node	15853 Sep 18 14:53	0° ഫ 33'58	
	15852 Nov 01 12.27 15852 Nov 21 03:04	0 IIL 0° ∡ 1		dese. Houc	15853 Sep 18 14.35 15853 Sep 19 09:21	0 <u>=</u> 33 38 30°R, m)	
asc. node	15852 Nov 26 05:38	0 ≯ 9° ₹ '41'11		direct	15853 Sep 25 05:36	28° Mp 00'15	
morning set	15852 Nov 29 08:05	15° × 7'57'09			15853 Oct 01 15:36	0° ರ	
max. Earth dist.	15852 Dec 04 20:28	27° х 43'17	1.31451 AU	morning max el	15853 Oct 09 01:10	∘ – 5° ≙ 59'17	27°38'23
	15852 Dec 05 21:20	0°る			15853 Oct 27 09:25	0°ML	
		-		morning set	15853 Nov 13 00:52	29°M30'36	
superior conj	15852 Dec 06 16:50	1° る 47'43	1°23'32	asc. node	15853 Nov 13 02:31	29°M38'52	
minimum elong	15852 Dec 06 14:51	1° ට 36'44	1°24'08		15853 Nov 13 06:45	0° ∡ ⊓	
evening rise	15852 Dec 13 09:56	16° る 36'49		max. Earth dist.	15853 Nov 17 18:56	9° ∡ 16′02	1.32434 AU
	15852 Dec 19 21:47	0° ≈					
desc. node	15852 Dec 28 15:47	15° ≈ 09'45		superior conj	15853 Nov 20 23:16	16° ₹ 04'20	1°07'14

minimum elong	15853 Nov 20 20:55	15° ₹ '51'38	1°07'39	minimum elong	15854 Nov 04 21:49	29° M .51'03	0°45'07
	15853 Nov 27 08:47	0°る			15854 Nov 04 23:32	0° ✓ 150 730033	
evening rise	15853 Nov 27 20:46	1° る 04'34		evening rise	15854 Nov 12 06:39	15°♂28'22 0°♂	
JJ.	15853 Dec 13 15:47	0°≈ 2°≈≈22100		44-	15854 Nov 19 12:20	0°る 18°る35'12	
desc. node evening max el	15853 Dec 15 12:43 15853 Dec 20 17:24	2°≈32'09 8°≈25'26	23°09'00	desc. node evening max el	15854 Dec 02 09:43 15854 Dec 02 07:05	18°る33'12	21920/05
U	15854 Jan 02 22:33	8°≈25°26 14°≈57'59	23 09 00	retrograde	15854 Dec 02 07:05 15854 Dec 14 09:06	18°628'46 24° 6 27'17	21-29 03
retrograde evening set	15854 Jan 07 04:32	14 ≈3739 14°≈18'49		evening set	15854 Dec 17 08:28	24 3 2/17 24° る 07'06	
min. Earth dist.	15854 Jan 14 03:36	14 ≈1649 11°≈04'06	0.54847 AU	inferior conj	15854 Dec 26 01:16	24 80700 20° る 16'41	5°51'57
inferior conj	15854 Jan 15 09:51	10°≈20'39		minimum elong	15854 Dec 25 19:55		5°50'35
minimum elong	15854 Jan 15 13:46		5°54'42	min. Earth dist.	15854 Dec 26 09:02	20° ろ 05'48	0.54397 AU
morning rise	15854 Jan 24 00:23	6°≈30'03	3 31 12	morning rise	15855 Jan 03 07:51	16° る 27'36	0.5 1557 110
direct	15854 Jan 26 20:04	6°≈11'15		direct	15855 Jan 07 04:09	15° ろ 55'28	
morning max el	15854 Feb 07 04:17	11° ≈ 39'38	20°46'53	morning max el	15855 Jan 19 21:50	22° ろ 06'18	22°26'12
asc. node	15854 Feb 09 01:08	13° ≈ 36'13	20 .003	asc. node	15855 Jan 26 22:27	0°≈27'32	
	15854 Feb 19 21:07	0° ∀			15855 Jan 26 14:37	0° ≈	
morning set	15854 Feb 26 06:21	12°) 40′06		morning set	15855 Feb 10 17:13	27° ≈ 23'58	
C				C	15855 Feb 11 22:32	0°) €	
superior conj	15854 Mar 05 17:10	28° ∺ 07'59	1°03'01				
minimum elong	15854 Mar 05 19:44	28° ¥ 21′05	1°02'44	superior conj	15855 Feb 17 17:46	12° ¥ 25'54	1°20'52
-	15854 Mar 06 15:10	$0^{\circ}\Upsilon$		minimum elong	15855 Feb 17 19:59	12°) 37′42	1°20'57
max. Earth dist.	15854 Mar 10 21:21	8° Y 27'12	1.35798 AU	max. Earth dist.	15855 Feb 21 11:47	20°) 16'31	1.33914 AU
desc. node	15854 Mar 13 13:44	13° Y ′34'25		evening rise	15855 Feb 25 22:22	29°) €08'57	
evening rise	15854 Mar 14 18:58	15° Y 50'36			15855 Feb 26 08:55	0° Y	
	15854 Mar 22 20:23	$0^{\circ}S$		desc. node	15855 Feb 28 10:21	3° Y 55'02	
	15854 Apr 12 12:57	$\Pi^{\circ}0$			15855 Mar 16 00:03	0° 8	
evening max el	15854 Apr 19 04:37	7° Ⅱ 20'24	26°11'10	evening max el	15855 Apr 01 18:27	21° 8 00'10	27°04'12
retrograde	15854 May 02 00:14	14° Ⅱ 40'34		retrograde	15855 Apr 15 04:43	28° 8 30'28	
asc. node	15854 May 07 22:13	12° Ⅲ 23′05		evening set	15855 Apr 21 18:13	25° 8 59'00	
evening set	15854 May 08 05:15	12° Ⅱ 08'52		asc. node	15855 Apr 24 19:28	23° 8 08'36	
min. Earth dist.	15854 May 12 08:12	7° Ⅱ 48'35	0.67149 AU	min. Earth dist.	15855 Apr 25 16:14	22° 8 12'08	0.65599 AU
inferior conj	15854 May 14 01:57	5° Ⅱ 39'22	1°46'39	inferior conj	15855 Apr 27 22:38	19° 8 37'09	0°57'20
minimum elong	15854 May 13 23:50	5° Ⅱ 45'56	1°45'17	minimum elong	15855 Apr 27 21:11	19° 8 41'17	0°56'14
morning rise	15854 May 19 19:15	29° 8 54'39		morning rise	15855 May 04 01:42	14° 8 04'57	
	15854 May 19 15:48	30° ₹ 8		direct	15855 May 06 21:36	13° 8 21'42	
direct	15854 May 23 00:51	28° 8 55'23		morning max el	15855 May 13 05:04	16° 8 38'41	18°02'42
	15854 May 26 12:57	0°Ⅱ 2°Ⅱ	10025110		15855 May 23 03:18	0°II	
morning max el	15854 May 29 14:16	2° Ⅱ 25'14	18°35'19	desc. node	15855 May 27 11:35	6°Ⅲ56'29	
desc. node	15854 Jun 09 14:38	16° Ⅱ 58'10		morning set	15855 May 31 16:13	13° ∏ 45'14	
morning set	15854 Jun 18 00:32 15854 Jun 19 21:21	0° © 2° © 55'29			15855 Jun 10 18:15	0ං ව	
morning set	13634 Juli 19 21.21	2 3933 29		superior conj	15855 Jun 15 08:04	7°©14'15	1057140
superior conj	15854 Jul 05 20:59	27° © 53'34	2013124	minimum elong	15855 Jun 15 00:01		1°58'04
minimum elong	15854 Jul 05 18:48		2°14'07	max. Earth dist.	15855 Jun 18 05:33	11°9546'37	1.45842 AU
max. Earth dist.	15854 Jul 05 09:02	27°507'00	1.45943 AU	max. Earth dist.	15855 Jun 29 23:37	0°Ω	1.13012110
max. Darm dist.	15854 Jul 07 05:24	0°Ω	1.10715710	evening rise	15855 Jul 01 11:00	2° Ω 16'15	
evening rise	15854 Jul 21 13:11	22° Ω 31'12		greatest brilliancy	15855 Jul 14 06:01	21° Ω 43'17	-0.7m
	15854 Jul 26 06:25	0° m)		8	15855 Jul 20 01:23	0° m)	
greatest brilliancy	15854 Jul 29 03:39	4° m/32'52	-0.8m	asc. node	15855 Jul 21 18:35	2° m 15'36	
asc. node	15854 Aug 03 21:51	13° m) 21'27		evening max el	15855 Jul 26 02:28	7° m) 14'34	19°23'59
evening max el	15854 Aug 11 17:56	23° m/22'44	18°39'32	retrograde	15855 Aug 02 04:42	11° m) 11'02	
retrograde	15854 Aug 18 07:17	26° m 55'26		evening set	15855 Aug 05 20:18	9° m 53'49	
evening set	15854 Aug 21 13:01	25° m 55'41		inferior conj	15855 Aug 11 05:40	4° m) 01'28	2°53'34
inferior conj	15854 Aug 27 04:37	20° m 16'38	2°27'22	minimum elong	15855 Aug 11 07:13	3° m 56'23	2°52'53
minimum elong	15854 Aug 27 06:49	20° m 09'51	2°26'38	min. Earth dist.	15855 Aug 12 13:35	2° Mp 16'36	0.67367 AU
min. Earth dist.	15854 Aug 29 02:41	17° m 54'55	0.65845 AU		15855 Aug 14 09:30	30°R Ω	
morning rise	15854 Sep 01 23:31	13° m 51'28		morning rise	15855 Aug 16 17:34	27° Ω 35′10	
desc. node	15854 Sep 05 12:17	11° m 43'28		direct	15855 Aug 22 16:08	25° Ω 01′13	
direct	15854 Sep 08 07:36	11° m y 13'37		desc. node	15855 Aug 23 09:41	25° Ω 03'19	
morning max el	15854 Sep 21 12:27	19° m 01'25	26°46'42		15855 Sep 01 11:43	0° m	
	15854 Sep 30 20:31	0∘ ⊽		morning max el	15855 Sep 03 23:34	2° m 22'23	25°33'03
	15854 Oct 20 09:44	0° M ₊			15855 Sep 24 23:31	0∘ ত	
morning set	15854 Oct 27 06:38	12°M32'34		morning set	15855 Oct 09 21:46	24° ♀ 54'23	
asc. node	15854 Oct 30 23:20	19°M45'02	1.000=1.:==		15855 Oct 12 16:12	0°M,	100001 :=:
max. Earth dist.	15854 Oct 31 07:56	20°M27'58	1.33974 AU	max. Earth dist.	15855 Oct 13 11:43	1°M31'34	1.36001 AU
·	15054N 04 22 55	00 70202	0044150	asc. node	15855 Oct 17 20:04	9°M55'12	
superior conj	15854 Nov 04 23:55	0° ∡ '02'02	0 44 30				

superior conj	15855 Oct 19 15:58	13°M33'31	0°16'35	morning set	15856 Sep 20 18:12	6° £ 27'24	
minimum elong	15855 Oct 19 14:58	13°M28'33	0°16'54	max. Earth dist.	15856 Sep 24 10:48	12° ≏ 54'28	1.38339 AU
evening rise	15855 Oct 27 13:29	29°M42'54					
	15855 Oct 27 16:49	0° ∡ ¹		superior conj	15856 Oct 01 19:59	26° ≙ 30'55	-0°16'41
evening max el	15855 Nov 14 09:05	29° ∡ ′08'35	20°05'12	minimum elong	15856 Oct 01 21:07	26° ≏ 36′23	0°16'11
	15855 Nov 15 06:34	8°0		asc. node	15856 Oct 03 16:45	0°M05'55	
desc. node	15855 Nov 19 06:48	2° る 54'22			15856 Oct 03 15:32	0° M	
retrograde	15855 Nov 24 21:15	4° る 22'45		evening rise	15856 Oct 10 14:52	13° M 42'25	
evening set	15855 Nov 27 00:30	4° る 10'47			15856 Oct 19 07:29	0° ∡ ¹	
inferior conj	15855 Dec 05 19:41	0°る13'09	-4°49'12	evening max el	15856 Oct 27 01:27	10° ∡ ³38′16	19°03'06
minimum elong	15855 Dec 05 09:40	0° る 28'12	4°45'43	retrograde	15856 Nov 04 23:39	15° ∡ 07'55	
•	15855 Dec 06 04:24	30°R <i>⊀</i>		desc. node	15856 Nov 05 03:59	15° ∡ 07'49	
min. Earth dist.	15855 Dec 07 15:17	29° ₹ '07'40	0.54886 AU	evening set	15856 Nov 06 20:50	14° ∡ 56'44	
morning rise	15855 Dec 13 17:56	26° ₹ '06'56		inferior conj	15856 Nov 15 06:04	10° ∡ 741'44	-3°11'00
direct	15855 Dec 18 15:15	25° ₹ 15'00		minimum elong	15856 Nov 14 22:14	10° ∡ 55'14	3°07'23
	15855 Dec 30 00:16	0°ප		min. Earth dist.	15856 Nov 18 01:56	8° ∡ ¹45'08	0.56227 AU
morning max el	15856 Jan 01 06:51	2° ට 00'10	24°16'13	morning rise	15856 Nov 22 20:57	6° ∡ ¹02'11	
asc. node	15856 Jan 13 19:41	18° ろ 19'05	2. 1015	direct	15856 Nov 28 14:15	4° × 745'45	
ase. Hode	15856 Jan 20 07:52	0°≈		morning max el	15856 Dec 12 17:10	11° × 758'41	25°58'40
morning set	15856 Jan 26 05:13	12° ≈ 07'11		morning max cr	15856 Dec 26 15:02	0°중	23 30 40
morning set	13030 3411 20 03.13	12 ~07 11		asc. node	15856 Dec 30 16:53	6° る 55'27	
superior conj	15956 Eab 02 00:10	26° ≈ 57'37	1022121		15857 Jan 09 16:27	6 3 3327 26° る 43'45	
1 3	15856 Feb 02 00:10			morning set		20 ⊘ 43 43 0° ≈	
minimum elong	15856 Feb 02 01:35	27°≈05'23	1°32'47		15857 Jan 11 04:35	0-∞	
F 41 F 4	15856 Feb 03 09:40	0°) {	1 22451 ATT		15057 1 16 10 02	11025142	1027120
max. Earth dist.	15856 Feb 04 10:05	2°) 11'42	1.32451 AU	superior conj	15857 Jan 16 10:03	11°≈35'42	
evening rise	15856 Feb 09 12:54	12°) 53'46		minimum elong	15857 Jan 16 10:27	11° ≈ 37'54	1°38'19
desc. node	15856 Feb 15 06:58	24°) €03'15		max. Earth dist.	15857 Jan 17 14:27	14°≈13'24	1.31475 AU
	15856 Feb 18 14:03	0° Υ		evening rise	15857 Jan 23 11:42	26°≈57'01	
	15856 Mar 10 05:02	0° 8			15857 Jan 24 23:03	0° ∀	
evening max el	15856 Mar 14 07:10	4° 8 17'14	27°32'53	desc. node	15857 Feb 01 03:37	13° ¥ 52'33	
retrograde	15856 Mar 28 02:17	11° 8 47'53			15857 Feb 10 22:49	0° Υ	
evening set	15856 Apr 03 21:10	9° 8 23'18		evening max el	15857 Feb 24 16:22	16° Ƴ 57'17	27°30'54
min. Earth dist.	15856 Apr 07 16:00	6° 8 06'15	0.63696 AU	retrograde	15857 Mar 10 15:53	24° Y 22'06	
inferior conj	15856 Apr 10 09:59	3° 8 16'46		evening set	15857 Mar 17 11:21	22° Ƴ 11'41	
minimum elong	15856 Apr 10 10:10	3° 8 16'19	0°05'41	min. Earth dist.	15857 Mar 21 05:57	19° Ƴ 18'17	0.61534 AU
transit middle	15856 Apr 10 10:10	3° 8 16'19	0°05'41	inferior conj	15857 Mar 24 08:39	16° Ƴ 28'34	-1°21'40
transit begin	15856 Apr 10 07:13	3° 8 23'55		minimum elong	15857 Mar 24 11:33	16° Ƴ 21'57	1°20'38
transit end	15856 Apr 10 13:06	3° 8 08'44		asc. node	15857 Mar 28 14:08	13° Y ′00'24	
asc. node	15856 Apr 10 16:46	2° 8 59'18		morning rise	15857 Mar 31 14:58	11° Y 29'20	
	15856 Apr 13 20:40	30° Ŗ ♈		direct	15857 Apr 02 19:15	11° Y 08'40	
morning rise	15856 Apr 17 01:34	27° Y 59'35		morning max el	15857 Apr 09 15:35	14° Y 35'18	17°49'54
direct	15856 Apr 19 12:57	27° Y 29'18			15857 Apr 20 07:37	0°8	
	15856 Apr 25 02:50	0°B		morning set	15857 Apr 25 08:53	8° 8 56'46	
morning max el	15856 Apr 25 22:33	0° 8 45'18	17°47'22	desc. node	15857 Apr 30 05:13	17° 8 35'00	
morning set	15856 May 12 13:47	25° 8 51'13			•		
desc. node	15856 May 13 08:26	27° 8 10'38		superior conj	15857 May 06 12:26	28° 8 31'15	-0°49'40
	15856 May 15 00:18	0°II		minimum elong	15857 May 06 07:54	28° 8 11'56	
	,			Č	15857 May 07 09:21	0°Щ	
superior conj	15856 May 25 10:43	17° Ⅲ 20'50	-1°27'11	max. Earth dist.	15857 May 13 16:38	10° Ⅱ 26'49	1.43523 AU
minimum elong	15856 May 25 02:44	16° Ⅱ 48'25		evening rise	15857 May 20 14:05	21° Ⅱ 24'49	
max. Earth dist.	15856 May 31 00:57		1.45008 AU		15857 May 26 04:11	0ంత	
mar. Darur dibe.	15856 Jun 02 09:01	0°9	1.10000110		15857 Jun 16 13:32	0°Ω	
evening rise	15856 Jun 09 21:47	11°9540'14		evening max el	15857 Jun 21 01:52	5° Ω 01'44	21°35'22
evening rise	15856 Jun 22 02:56	0° Ω		asc. node	15857 Jun 24 12:17	8° Ω 02'10	21 33 22
asc. node	15856 Jul 07 15:23	20° Ω 33'21		retrograde	15857 Jun 30 02:24	10°Ω16'50	
evening max el	15856 Jul 08 05:10	$20^{\circ} \Omega 08'23$	20°23'31	evening set	15857 Jul 04 15:26	8° Ω 24'39	
•			20 23 31	•		2°Ω09'40	3°08'12
retrograde evening set	15856 Jul 16 03:43 15856 Jul 20 05:45	25°Ω40'13 24°Ω05'08		inferior conj minimum elong	15857 Jul 09 21:01 15857 Jul 09 20:41	2° Ω 10'48	3°08'12 3°07'28
•			2007120	-			
inferior conj	15856 Jul 25 11:54	18° Ω 00'43	3°06'38	min. Earth dist.	15857 Jul 10 01:42	1° £ 053'19	0.69012 AU
minimum elong	15856 Jul 25 12:32	$17^{\circ} \Omega 58'32$	3°05'59	momini-	15857 Jul 11 10:37	30°R©	
min. Earth dist.	15856 Jul 26 05:57	16° Ω 58'50	0.68432 AU	morning rise	15857 Jul 15 01:45	25°S52'02	
morning rise	15856 Jul 30 19:01	11° Ω 37'25		direct	15857 Jul 20 00:40	23°5544'36	
direct	15856 Aug 05 06:09	9° Ω 14'18		desc. node	15857 Jul 27 04:23	27°503'41	2202
desc. node	15856 Aug 09 07:03	10° Ω 18'19	2.4005:01	morning max el	15857 Jul 29 22:36	29° © 36'06	22°37'52
morning max el	15856 Aug 16 10:27	15° Ω 55'07	24~07'01		15857 Jul 30 08:01	0° Q	
	15856 Aug 28 01:28	0° m/			15857 Aug 21 19:07	0° m)	
	15856 Sep 16 22:15	0∘ ⊽		morning set	15857 Sep 01 16:02	17° m 03'01	

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24°**∏**39'23

15859 Jun 13 23:30

morning rise

15858 Jul 25 18:42

 $0^{\circ}\Omega$

minimum elong

morning rise

morning max el

15860 May 22 19:40

15860 May 28 10:48

15860 May 31 22:32

15860 Jun 07 18:47

15°**Ⅱ**00'39

9°**Ⅱ**02'33

7°**I**52'45

11°**Ⅲ**35'14 19°01'47

2°08'01

asc. node

min. Earth dist.

inferior conj

15861 May 02 00:39

15861 May 04 23:18

15861 May 06 02:07

15861 May 06 22:34

4°**I**I28'46

30°R\

1°**I**19'54 0.66543 AU

28°**8**58'23 1°27'19

minimum elong	15861 May 06 20:39	29° 8 04'11	1°26'01	morning rise	15862 Apr 26 23:44	7° 8 23'02	
morning rise	15861 May 12 19:42	23° 8 19'02		direct	15862 Apr 29 15:47	6° 8 45'50	
direct	15861 May 15 21:07	22° 8 26'54		morning max el	15862 May 05 23:17	10° 8 01'08	17°54'04
morning max el	15861 May 22 06:56	25° 8 49'26	18°19'25		15862 May 19 20:23	$\Pi^{\circ}0$	
	15861 May 25 22:58	Π \circ 0		desc. node	15862 May 21 13:52	2° Ⅱ 51'29	
desc. node	15861 Jun 03 16:57	12° Ⅱ 46′01		morning set	15862 May 23 12:47	6° Ⅲ 05'58	
morning set	15861 Jun 11 06:12	24° Ⅱ 43'05					
	15861 Jun 14 14:04	0 \circ \odot		superior conj	15862 Jun 06 10:54	28° Ⅱ 45'54	-1°46'12
				minimum elong	15862 Jun 06 02:12	28° Ⅱ 11′20	1°46'12
superior conj	15861 Jun 26 18:41	19° 5 09'18	-2°09'04		15862 Jun 07 05:33	0 \circ	
minimum elong	15861 Jun 26 13:22	18° 5 48'37	2°09'40	max. Earth dist.	15862 Jun 10 14:45	5° 5 20'18	1.45564 AU
max. Earth dist.	15861 Jun 27 18:52	20° © 43'35	1.45992 AU	evening rise	15862 Jun 22 09:59	23° © 36'49	
	15861 Jul 03 17:46	0 \circ Ω			15862 Jun 26 14:28	0 $^{\circ}$ Ω	
evening rise	15861 Jul 12 18:52	14° Ω 06′28		greatest brilliancy	15862 Jul 06 20:31	15° Ω 18'52	-0.6m
greatest brilliancy	15861 Jul 22 19:06	29° Ω 39'00	-0.8m	asc. node	15862 Jul 15 20:49	27° Ω 28'06	
	15861 Jul 23 00:36	0° ™			15862 Jul 18 03:26	0° Т р	
asc. node	15861 Jul 29 00:03	8° m 47'54		evening max el	15862 Jul 18 15:11	0° m , 29′49	19°47'38
evening max el	15861 Aug 04 09:04	16°Mp36'49	18°56'25	retrograde	15862 Jul 26 01:28	4° m 40'32	
retrograde	15861 Aug 11 03:01	20° m) 18'27		evening set	15862 Jul 29 21:18	3° m 15'54	
evening set	15861 Aug 14 12:50	19° m 11'23			15862 Aug 02 03:12	30°R Ω	
inferior conj	15861 Aug 20 01:22	13° m)26'15	2°40'13	inferior conj	15862 Aug 04 04:58	27° Ω 18'15	3°00'35
minimum elong	15861 Aug 20 03:20	13° m) 19'58	2°39'30	minimum elong	15862 Aug 04 06:08	27° Ω 14'18	2°59'56
min. Earth dist.	15861 Aug 21 17:21	11° M 19'17	0.66540 AU	min. Earth dist.	15862 Aug 05 06:59	25° Ω 50'54	0.67869 AU
morning rise	15861 Aug 25 17:01	6° ™ 59'44		morning rise	15862 Aug 09 14:30	20° Ω 52'33	
desc. node	15861 Aug 30 14:47	4° ™ 29'01		direct	15862 Aug 15 08:20	18° Ω 22'18	
direct	15861 Aug 31 21:11	4° Mg 22'49		desc. node	15862 Aug 17 12:10	18° Ω 40'39	
morning max el	15861 Sep 13 18:02	12° m 01'32	26°17'34	morning max el	15862 Aug 27 05:04	25° Ω 28'45	24°57'26
	15861 Sep 28 04:37	0∘ ⊽			15862 Aug 31 08:05	0° m)	
	15861 Oct 16 19:16	0° M			15862 Sep 21 16:25	0∘ ⊽	
morning set	15861 Oct 19 15:47	5° ™ 14'14		morning set	15862 Oct 01 23:34	17° ≙ 17'16	
max. Earth dist.	15861 Oct 23 11:30	12°M32'08	1.34784 AU	max. Earth dist.	15862 Oct 05 12:18	23° ჲ 39'25	1.36965 AU
asc. node	15861 Oct 25 01:34	15°M39'36			15862 Oct 08 21:40	0° M	
				asc. node	15862 Oct 11 22:17	5° M 50′38	
superior conj	15861 Oct 28 18:52	23°M11'32	0°33'32				
minimum elong	15861 Oct 28 17:07	23°M02'32	0°33'49	superior conj	15862 Oct 12 06:18	6°M29'57	0°03'02
	15861 Nov 01 01:24	0° ∡		minimum elong	15862 Oct 12 06:05	6°M28'53	0°03'25
evening rise	15861 Nov 05 07:11	8° ∡ 754'22		behind sun begin	15862 Oct 11 23:40	5°M57'26	
	15861 Nov 16 10:01	0° ろ		behind sun end	15862 Oct 12 12:29	7°M₀00'24	
evening max el	15861 Nov 24 06:44	10°る15'30	20°50'52	behind sun end evening rise	15862 Oct 20 12:04	23°M03'30	
desc. node	15861 Nov 24 06:44 15861 Nov 26 12:03	10°පි15'30 12°පි15'07	20°50'52	evening rise	15862 Oct 20 12:04 15862 Oct 23 23:35	23°M03'30 0°⊀¹	1002 (102
desc. node retrograde	15861 Nov 24 06:44 15861 Nov 26 12:03 15861 Dec 05 17:44	10°ප15'30 12°ප15'07 15°ප56'39	20°50'52	evening rise evening max el	15862 Oct 20 12:04 15862 Oct 23 23:35 15862 Nov 06 15:04	23° ™ 03'30 0° ҂ ¹ 21° ҂ ¹16'48	19°36'03
desc. node retrograde evening set	15861 Nov 24 06:44 15861 Nov 26 12:03 15861 Dec 05 17:44 15861 Dec 08 06:32	10°පි15'30 12°පි15'07 15°පි56'39 15°පි41'12		evening rise evening max el desc. node	15862 Oct 20 12:04 15862 Oct 23 23:35 15862 Nov 06 15:04 15862 Nov 13 09:11	23°M03'30 0°⊀ 21°⊀16'48 25°⊀43'13	19°36'03
desc. node retrograde evening set inferior conj	15861 Nov 24 06:44 15861 Nov 26 12:03 15861 Dec 05 17:44 15861 Dec 08 06:32 15861 Dec 17 01:54	10°පි15'30 12°පි15'07 15°පි56'39 15°පි41'12 11°පි49'00	-5°31'38	evening rise evening max el desc. node retrograde	15862 Oct 20 12:04 15862 Oct 23 23:35 15862 Nov 06 15:04 15862 Nov 13 09:11 15862 Nov 16 10:40	23°M03'30 0°\$\tilde{\sigma}\) 21°\$\tilde{\sigma}\]16'48 25°\$\tilde{\sigma}\]43'13 26°\$\tilde{\sigma}\]11'11	19°36′03
desc. node retrograde evening set inferior conj minimum elong	15861 Nov 24 06:44 15861 Nov 26 12:03 15861 Dec 05 17:44 15861 Dec 08 06:32 15861 Dec 17 01:54 15861 Dec 16 17:36	10° පි15'30 12° පි15'07 15° පි56'39 15° පි41'12 11° පි49'00 12° පි00'51	-5°31'38 5°29'20	evening rise evening max el desc. node retrograde evening set	15862 Oct 20 12:04 15862 Oct 23 23:35 15862 Nov 06 15:04 15862 Nov 13 09:11 15862 Nov 16 10:40 15862 Nov 18 09:41	23° M 03'30 0° 21° 16'48 25° 43'13 26° 11'11 26° 00'22	
desc. node retrograde evening set inferior conj minimum elong min. Earth dist.	15861 Nov 24 06:44 15861 Nov 26 12:03 15861 Dec 05 17:44 15861 Dec 08 06:32 15861 Dec 17 01:54 15861 Dec 16 17:36 15861 Dec 18 01:41	10° 15'30 12° 15'07 15° 15'6'39 15° 11'2 11° 12'00'51 11° 11'55	-5°31'38	evening rise evening max el desc. node retrograde evening set inferior conj	15862 Oct 20 12:04 15862 Oct 23 23:35 15862 Nov 06 15:04 15862 Nov 13 09:11 15862 Nov 16 10:40 15862 Nov 18 09:41 15862 Nov 27 01:59	23° M 03'30 0° 21° 16'48 25° 43'13 26° 11'11 26° 00'22 21° 56'35	-4°09'57
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	15861 Nov 24 06:44 15861 Nov 26 12:03 15861 Dec 05 17:44 15861 Dec 08 06:32 15861 Dec 17 01:54 15861 Dec 16 17:36 15861 Dec 18 01:41 15861 Dec 25 04:42	10°315'30 12°315'07 15°356'39 15°34'1'12 11°34'9'00 12°300'51 11°314'55 7°354'54	-5°31'38 5°29'20	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong	15862 Oct 20 12:04 15862 Oct 23 23:35 15862 Nov 06 15:04 15862 Nov 13 09:11 15862 Nov 16 10:40 15862 Nov 18 09:41 15862 Nov 27 01:59 15862 Nov 26 16:17	23°M03'30 0° \$\tilde{\mathbb{A}}\) 21° \$\tilde{\mathbb{A}}\] 16'48 25° \$\tilde{\mathbb{A}}\] 43'13 26° \$\tilde{\mathbb{A}}\] 11'11 26° \$\tilde{\mathbb{A}}\] 00'22 21° \$\tilde{\mathbb{A}}\] 56'35 22° \$\tilde{\mathbb{A}}\] 11'57	-4°09'57 4°06'05
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	15861 Nov 24 06:44 15861 Nov 26 12:03 15861 Dec 05 17:44 15861 Dec 08 06:32 15861 Dec 17 01:54 15861 Dec 16 17:36 15861 Dec 18 01:41 15861 Dec 25 04:42 15861 Dec 29 11:42	10° පි15'30 12° පි15'07 15° පි56'39 15° පි41'12 11° පි49'00 12° පි00'51 11° පි14'55 7° පි54'54 7° පි15'19	-5°31'38 5°29'20 0.54487 AU	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist.	15862 Oct 20 12:04 15862 Oct 23 23:35 15862 Nov 06 15:04 15862 Nov 13 09:11 15862 Nov 16 10:40 15862 Nov 18 09:41 15862 Nov 27 01:59 15862 Nov 26 16:17 15862 Nov 29 09:50	23°M03'30 0° \$\tilde{\mathbb{A}}\] 21° \$\tilde{\mathbb{A}}\] 16'48 25° \$\tilde{\mathbb{A}}\] 21'11 26° \$\tilde{\mathbb{A}}\] 00'22 21° \$\tilde{\mathbb{A}}\] 56'35 22° \$\tilde{\mathbb{A}}\] 11'57 20° \$\tilde{\mathbb{A}}\] 28'10	-4°09'57
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	15861 Nov 24 06:44 15861 Nov 26 12:03 15861 Dec 05 17:44 15861 Dec 08 06:32 15861 Dec 17 01:54 15861 Dec 16 17:36 15861 Dec 18 01:41 15861 Dec 25 04:42 15861 Dec 29 11:42 15862 Jan 11 16:43	10°る15'30 12°る15'07 15°る56'39 15°る41'12 11°る49'00 12°る00'51 11°る14'55 7°る54'54 7°る15'19 13°る42'00	-5°31'38 5°29'20	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	15862 Oct 20 12:04 15862 Oct 23 23:35 15862 Nov 06 15:04 15862 Nov 13 09:11 15862 Nov 16 10:40 15862 Nov 18 09:41 15862 Nov 27 01:59 15862 Nov 26 16:17 15862 Nov 29 09:50 15862 Dec 04 21:03	23°M03'30 0° \$\frac{1}{2}\$16'48 25° \$\frac{1}{2}\$11'11 26° \$\frac{1}{2}\$11'11 26° \$\frac{1}{2}\$00'22 21° \$\frac{1}{2}\$56'35 22° \$\frac{1}{2}\$11'57 20° \$\frac{1}{2}\$28'10 17° \$\frac{1}{2}\$37'09	-4°09'57 4°06'05
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	15861 Nov 24 06:44 15861 Nov 26 12:03 15861 Dec 05 17:44 15861 Dec 08 06:32 15861 Dec 17 01:54 15861 Dec 16 17:36 15861 Dec 18 01:41 15861 Dec 25 04:42 15861 Dec 29 11:42 15862 Jan 11 16:43 15862 Jan 21 00:55	10°る15'30 12°る15'07 15°る56'39 15°る41'12 11°る49'00 12°る00'51 11°る14'55 7°る54'54 7°る15'19 13°る42'00 25°る17'14	-5°31'38 5°29'20 0.54487 AU	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	15862 Oct 20 12:04 15862 Oct 23 23:35 15862 Nov 06 15:04 15862 Nov 13 09:11 15862 Nov 16 10:40 15862 Nov 18 09:41 15862 Nov 27 01:59 15862 Nov 26 16:17 15862 Nov 29 09:50 15862 Dec 04 21:03 15862 Dec 10 03:39	23°M03'30 0° \$\frac{1}{2}\$16'48 25° \$\frac{1}{2}\$11'11 26° \$\frac{1}{2}\$00'22 21° \$\frac{1}{2}\$56'35 22° \$\frac{1}{2}\$11'57 20° \$\frac{1}{2}\$28'10 17° \$\frac{1}{2}\$37'09 16° \$\frac{1}{2}\$35'01	-4°09'57 4°06'05 0.55367 AU
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	15861 Nov 24 06:44 15861 Nov 26 12:03 15861 Dec 05 17:44 15861 Dec 08 06:32 15861 Dec 17 01:54 15861 Dec 16 17:36 15861 Dec 18 01:41 15861 Dec 25 04:42 15861 Dec 29 11:42 15862 Jan 11 16:43 15862 Jan 21 00:55 15862 Jan 23 23:29	10°る15'30 12°る15'07 15°る56'39 15°る41'12 11°る49'00 12°る00'51 11°る14'55 7°る54'54 7°る15'19 13°る42'00 25°る17'14 0°≈	-5°31'38 5°29'20 0.54487 AU	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	15862 Oct 20 12:04 15862 Oct 23 23:35 15862 Nov 06 15:04 15862 Nov 13 09:11 15862 Nov 16 10:40 15862 Nov 18 09:41 15862 Nov 27 01:59 15862 Nov 26 16:17 15862 Nov 29 09:50 15862 Dec 04 21:03 15862 Dec 10 03:39 15862 Dec 24 01:14	23°M03'30 0° \$\tilde{\mathbb{A}}\$ 21° \$\tilde{\mathbb{A}}\$ 16'48 25° \$\tilde{\mathbb{A}}\$ 311'11 26° \$\tilde{\mathbb{A}}\$ 00'22 21° \$\tilde{\mathbb{A}}\$ 56'35 22° \$\tilde{\mathbb{A}}\$ 11'57 20° \$\tilde{\mathbb{A}}\$ 28'10 17° \$\tilde{\mathbb{A}}\$ 37'09 16° \$\tilde{\mathbb{A}}\$ 35'01 23° \$\tilde{\mathbb{A}}\$ 33'29	-4°09'57 4°06'05 0.55367 AU
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	15861 Nov 24 06:44 15861 Nov 26 12:03 15861 Dec 05 17:44 15861 Dec 08 06:32 15861 Dec 17 01:54 15861 Dec 16 17:36 15861 Dec 18 01:41 15861 Dec 25 04:42 15861 Dec 29 11:42 15862 Jan 11 16:43 15862 Jan 21 00:55 15862 Jan 23 23:29 15862 Feb 03 19:24	10°る15'30 12°る15'07 15°る56'39 15°る41'12 11°る49'00 12°る00'51 11°る14'55 7°る54'54 7°る15'19 13°る42'00 25°る17'14 0°≈ 21°≈01'05	-5°31'38 5°29'20 0.54487 AU	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	15862 Oct 20 12:04 15862 Oct 23 23:35 15862 Nov 06 15:04 15862 Nov 13 09:11 15862 Nov 16 10:40 15862 Nov 18 09:41 15862 Nov 27 01:59 15862 Nov 26 16:17 15862 Nov 29 09:50 15862 Dec 04 21:03 15862 Dec 10 03:39 15862 Dec 24 01:14 15862 Dec 29 20:26	23°M03'30 0° ₹ 21° ₹16'48 25° ₹43'13 26° ₹11'11 26° ₹00'22 21° ₹56'35 22° ₹11'57 20° ₹28'10 17° ₹37'09 16° ₹35'01 23° ₹33'29 0° ₹	-4°09'57 4°06'05 0.55367 AU
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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	15861 Nov 24 06:44 15861 Nov 26 12:03 15861 Dec 05 17:44 15861 Dec 08 06:32 15861 Dec 17 01:54 15861 Dec 16 17:36 15861 Dec 18 01:41 15861 Dec 25 04:42 15861 Dec 29 11:42 15862 Jan 11 16:43 15862 Jan 21 00:55 15862 Jan 23 23:29 15862 Feb 03 19:24 15862 Feb 10 17:01 15862 Feb 10 17:01 15862 Feb 10 18:56 15862 Feb 10 18:56 15862 Feb 12 12:29 15862 Feb 22 12:29 15862 Feb 22 14:28 15862 Mar 13 03:57 15862 Mar 25 00:37 15862 Apr 07 15:26	10°る15'30 12°る15'07 15°る56'39 15°る41'12 11°る49'00 12°る00'51 11°る14'55 7°る54'54 7°る15'19 13°る42'00 25°る17'14 0°≈ 21°≈01'05 0°米 5°米56'19 6°米06'39 12°米40'45 22°米17'31 29°米50'48 0°℃ 0°8 14°802'51 21°835'09	-5°31'38 5°29'20 0.54487 AU 23°12'41 1°26'30 1°26'44 1.33231 AU	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	15862 Oct 20 12:04 15862 Nov 06 15:04 15862 Nov 13 09:11 15862 Nov 16 10:40 15862 Nov 18 09:41 15862 Nov 27 01:59 15862 Nov 26 16:17 15862 Nov 29 09:50 15862 Dec 04 21:03 15862 Dec 10 03:39 15862 Dec 24 01:14 15862 Dec 29 20:26 15863 Jan 07 22:09 15863 Jan 16 14:44 15863 Jan 19 07:17 15863 Jan 26 01:12 15863 Jan 26 02:12 15863 Jan 26 02:12 15863 Jan 30 09:47 15863 Feb 02 08:37 15863 Feb 09 09:08 15863 Feb 15 04:26	23°M03'30 0° ★ 21° ₹ 16'48 25° ₹ 43'13 26° ₹ 11'11 26° ₹ 00'22 21° ₹ 56'35 22° ₹ 11'57 20° ₹ 28'10 17° ₹ 37'09 16° ₹ 35'01 23° ₹ 33'29 0° ₹ 13° ₹ 29'17 0° ≈ 5° ≈ 41'42 20° ≈ 36'57 24° ≈ 37'32 0° ₹ 6° ₹ 10'58 19° ₹ 51'28 0° ♀	-4°09'57 4°06'05 0.55367 AU 25°01'45 1°35'21 1°35'53 1.31975 AU
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	15861 Nov 24 06:44 15861 Nov 26 12:03 15861 Dec 05 17:44 15861 Dec 08 06:32 15861 Dec 17 01:54 15861 Dec 16 17:36 15861 Dec 18 01:41 15861 Dec 25 04:42 15861 Dec 29 11:42 15862 Jan 11 16:43 15862 Jan 21 00:55 15862 Jan 23 23:29 15862 Feb 03 19:24 15862 Feb 10 17:01 15862 Feb 10 17:01 15862 Feb 10 18:56 15862 Feb 10 18:56 15862 Feb 13 21:05 15862 Feb 22 12:29 15862 Feb 22 12:29 15862 Feb 22 12:29 15862 Mar 13 03:57 15862 Mar 25 00:37 15862 Apr 07 15:26 15862 Apr 14 07:44	10°る15'30 12°る15'07 15°る56'39 15°る41'12 11°る49'00 12°る00'51 11°る14'55 7°る54'54 7°る15'19 13°る42'00 25°る17'14 0°≈ 21°≈01'05 0°米 5°米56'19 6°米06'39 12°米40'45 22°米17'31 29°米50'48 0°℃ 0°४ 14°802'51 21°835'09 19°805'24	-5°31'38 5°29'20 0.54487 AU 23°12'41 1°26'30 1°26'44 1.33231 AU	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	15862 Oct 20 12:04 15862 Nov 06 15:04 15862 Nov 13 09:11 15862 Nov 16 10:40 15862 Nov 18 09:41 15862 Nov 27 01:59 15862 Nov 26 16:17 15862 Nov 29 09:50 15862 Dec 04 21:03 15862 Dec 10 03:39 15862 Dec 29 20:26 15863 Jan 07 22:09 15863 Jan 16 14:44 15863 Jan 26 01:12 15863 Jan 26 01:12 15863 Jan 26 02:12 15863 Jan 27 22:03 15863 Jan 27 22:03 15863 Jan 30 09:47 15863 Feb 02 08:37 15863 Feb 09 09:08 15863 Feb 15 04:26 15863 Mar 07 12:08	23°M03'30 0° ★ 21° ★ 16'48 25° ★ 43'13 26° ★ 11'11 26° ★ 00'22 21° ★ 56'35 22° ★ 11'57 20° ★ 28'10 17° ★ 35'01 23° ★ 35'01 23° ★ 33'29 0° ★ 13° ★ 29'17 0° ≈ 5° ≈ 41'42 20° ≈ 36'57 24° ≈ 37'32 0° ★ 6° ★ 10'58 19° ★ 51'28 0° ❤ 27° ❤ 05'28	-4°09'57 4°06'05 0.55367 AU 25°01'45 1°35'21 1°35'53
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	15861 Nov 24 06:44 15861 Nov 26 12:03 15861 Dec 05 17:44 15861 Dec 08 06:32 15861 Dec 17 01:54 15861 Dec 16 17:36 15861 Dec 18 01:41 15861 Dec 25 04:42 15861 Dec 29 11:42 15862 Jan 11 16:43 15862 Jan 21 00:55 15862 Jan 23 23:29 15862 Feb 03 19:24 15862 Feb 10 17:01 15862 Feb 10 18:56 15862 Feb 10 18:56 15862 Feb 10 18:56 15862 Feb 13 21:05 15862 Feb 13 21:05 15862 Feb 22 12:29 15862 Feb 22 12:29 15862 Feb 22 14:28 15862 Mar 13 03:57 15862 Apr 07 15:26 15862 Apr 14 07:44 15862 Apr 18 03:59	10°る15'30 12°る15'07 15°る56'39 15°る41'12 11°る49'00 12°る00'51 11°る14'55 7°る54'54 7°る15'19 13°る42'00 25°る17'14 0°≈ 21°≈01'05 0°米 5°米56'19 6°米06'39 12°米40'45 22°米17'31 29°米50'48 0°℃ 0°엉 14°엉02'51 21°엉35'09 19°엉05'24 15°엉31'59	-5°31'38 5°29'20 0.54487 AU 23°12'41 1°26'30 1°26'44 1.33231 AU	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	15862 Oct 20 12:04 15862 Nov 06 15:04 15862 Nov 13 09:11 15862 Nov 16 10:40 15862 Nov 18 09:41 15862 Nov 27 01:59 15862 Nov 26 16:17 15862 Nov 29 09:50 15862 Dec 04 21:03 15862 Dec 10 03:39 15862 Dec 24 01:14 15862 Dec 29 20:26 15863 Jan 07 22:09 15863 Jan 16 14:44 15863 Jan 26 01:12 15863 Jan 26 02:12 15863 Jan 27 22:03 15863 Jan 26 02:12 15863 Jan 30 09:47 15863 Feb 09 09:08 15863 Feb 15 04:26 15863 Mar 07 12:08 15863 Mar 07 12:08	23°M03'30 0°メ 21°メ16'48 25°メ14'11 26°メ00'22 21°メ56'35 22°メ11'57 20°メ28'10 17°メ37'09 16°メ35'01 23°メ33'29 0°℧ 13°℧29'17 0°≈ 5°≈41'42 20°≈31'26 20°≈36'57 24°≈37'32 0°升 6°升10'58 19°升51'28 0°Y 27°Y05'28 0°℧	-4°09'57 4°06'05 0.55367 AU 25°01'45 1°35'21 1°35'53 1.31975 AU
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. asc. node	15861 Nov 24 06:44 15861 Nov 26 12:03 15861 Dec 05 17:44 15861 Dec 08 06:32 15861 Dec 17 01:54 15861 Dec 16 17:36 15861 Dec 18 01:41 15861 Dec 25 04:42 15861 Dec 29 11:42 15862 Jan 11 16:43 15862 Jan 21 00:55 15862 Jan 23 23:29 15862 Feb 03 19:24 15862 Feb 07 23:11 15862 Feb 10 17:01 15862 Feb 10 18:56 15862 Feb 10 18:56 15862 Feb 13 21:05 15862 Feb 13 21:05 15862 Feb 22 12:29 15862 Feb 22 14:28 15862 Mar 13 03:57 15862 Mar 25 00:37 15862 Apr 17 15:26 15862 Apr 18 03:59 15862 Apr 18 03:59 15862 Apr 18 21:56	10° \delta 15'30 12° \delta 15'07 15° \delta 56'39 15° \delta 41'12 11° \delta 49'00 12° \delta 00'51 11° \delta 14'55 7° \delta 54'54 7° \delta 15'19 13° \delta 42'00 25° \delta 17'14 0° \times 21° \times 01'05 0° \times 5° \times 56'19 6° \times 06'39 12° \times 40'45 22° \times 17'31 29° \times 50'48 0° \times 0° \times 14° \delta 02'51 21° \delta 35'09 19° \delta 05'24 15° \delta 31'59 14° \delta 43'40	-5°31'38 5°29'20 0.54487 AU 23°12'41 1°26'30 1°26'44 1.33231 AU 27°19'42 0.64826 AU	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	15862 Oct 20 12:04 15862 Nov 06 15:04 15862 Nov 13 09:11 15862 Nov 16 10:40 15862 Nov 18 09:41 15862 Nov 27 01:59 15862 Nov 26 16:17 15862 Nov 29 09:50 15862 Dec 04 21:03 15862 Dec 10 03:39 15862 Dec 24 01:14 15862 Dec 29 20:26 15863 Jan 07 22:09 15863 Jan 16 14:44 15863 Jan 26 01:12 15863 Jan 26 02:12 15863 Jan 27 22:03 15863 Jan 27 22:03 15863 Jan 30 09:47 15863 Feb 02 08:37 15863 Feb 09 09:08 15863 Feb 15 04:26 15863 Mar 07 12:08 15863 Mar 10 19:45 15863 Mar 21 10:00	23°M03'30 0° ★ 21° ★16'48 25° ★43'13 26° ★11'11 26° ₹00'22 21° ₹56'35 22° ₹11'57 20° ₹28'10 17° ₹37'09 16° ₹35'01 23° ₹33'29 0° ₹ 13° ₹29'17 0° ≈ 5° ≈41'42 20° ≈31'26 20° ≈36'57 24° ≈37'32 0° ★ 6° ★10'58 19° ₩51'28 0° ₩ 27° ₩05'28 0° ₩ 4° ₩34'49	-4°09'57 4°06'05 0.55367 AU 25°01'45 1°35'21 1°35'53 1.31975 AU
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	15861 Nov 24 06:44 15861 Nov 26 12:03 15861 Dec 05 17:44 15861 Dec 08 06:32 15861 Dec 17 01:54 15861 Dec 16 17:36 15861 Dec 18 01:41 15861 Dec 25 04:42 15861 Dec 29 11:42 15862 Jan 11 16:43 15862 Jan 21 00:55 15862 Jan 23 23:29 15862 Feb 03 19:24 15862 Feb 10 17:01 15862 Feb 10 18:56 15862 Feb 10 18:56 15862 Feb 10 18:56 15862 Feb 13 21:05 15862 Feb 13 21:05 15862 Feb 22 12:29 15862 Feb 22 12:29 15862 Feb 22 14:28 15862 Mar 13 03:57 15862 Apr 07 15:26 15862 Apr 14 07:44 15862 Apr 18 03:59	10°る15'30 12°る15'07 15°る56'39 15°る41'12 11°る49'00 12°る00'51 11°る14'55 7°る54'54 7°る15'19 13°る42'00 25°る17'14 0°≈ 21°≈01'05 0°米 5°米56'19 6°米06'39 12°米40'45 22°米17'31 29°米50'48 0°℃ 0°엉 14°엉02'51 21°엉35'09 19°엉05'24 15°엉31'59	-5°31'38 5°29'20 0.54487 AU 23°12'41 1°26'30 1°26'44 1.33231 AU	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	15862 Oct 20 12:04 15862 Nov 06 15:04 15862 Nov 13 09:11 15862 Nov 16 10:40 15862 Nov 18 09:41 15862 Nov 27 01:59 15862 Nov 26 16:17 15862 Nov 29 09:50 15862 Dec 04 21:03 15862 Dec 10 03:39 15862 Dec 24 01:14 15862 Dec 29 20:26 15863 Jan 07 22:09 15863 Jan 16 14:44 15863 Jan 26 01:12 15863 Jan 26 02:12 15863 Jan 27 22:03 15863 Jan 26 02:12 15863 Jan 30 09:47 15863 Feb 09 09:08 15863 Feb 15 04:26 15863 Mar 07 12:08 15863 Mar 07 12:08	23°M03'30 0°メ 21°メ16'48 25°メ14'11 26°メ00'22 21°メ56'35 22°メ11'57 20°メ28'10 17°メ37'09 16°メ35'01 23°メ33'29 0°℧ 13°℧29'17 0°≈ 5°≈41'42 20°≈31'26 20°≈36'57 24°≈37'32 0°升 6°升10'58 19°升51'28 0°Y 27°Y05'28 0°℧	-4°09'57 4°06'05 0.55367 AU 25°01'45 1°35'21 1°35'53 1.31975 AU

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	15965 F 1 26 12 20	2101/21/01	2027110	. ,	15066 I 20 20 56	701/21/05	
inferior conj	15865 Feb 26 12:29	21°) (31'01		evening set	15866 Jan 30 20:56	7° ¥ 21'05	0.56204.477
minimum elong	15865 Feb 26 20:19	21°) 16'23	3°24°22	min. Earth dist.	15866 Feb 04 23:22	4°) (36′58	0.56394 AU
morning rise	15865 Mar 06 16:13	17° ∺ 01'18		inferior conj	15866 Feb 07 13:48	2° ¥ 55'58	
direct	15865 Mar 08 15:28	16° ¥ 48′01		minimum elong	15866 Feb 07 23:07	2° ∺ 40'53	4°49'54
asc. node	15865 Mar 09 14:04	16° ∺ 51'10			15866 Feb 12 14:47	30° ₹ ≈	
morning max el	15865 Mar 16 18:49	20°) 49′05	18°26'47	morning rise	15866 Feb 16 03:52	28° ≈ 47'39	
	15865 Mar 23 17:11	0 ° $\mathbf{\Upsilon}$		direct	15866 Feb 18 06:40	28° ≈ 34'56	
morning set	15865 Apr 01 14:50	16° Ƴ 07'12			15866 Feb 23 13:34	0° ∀	
	15865 Apr 08 22:10	0°8		asc. node	15866 Feb 24 11:26	0°) 32′15	
				morning max el	15866 Feb 27 19:00	3° ¥ 12'54	19°18'39
superior conj	15865 Apr 10 19:40	3° 8 30'42	0°02'58	Č	15866 Mar 16 09:40	0° Y	
minimum elong	15865 Apr 10 19:52	3° 8 31'33	0°02'33	morning set	15866 Mar 16 16:00	0° Ƴ 31'29	
behind sun begin	15865 Apr 10 12:44	2° 8 58'46	0 02 33	morning sec	12000 14141 10 10.00	0 1312)	
behind sun end	15865 Apr 11 02:59	4° 8 04'16		superior conj	15866 Mar 24 21:30	16° Ƴ 50'05	0°34'24
	*	4° 8 09'36				16° Y 59'35	0°33'55
desc. node	15865 Apr 11 04:09	_	1 40620 ATT	minimum elong	15866 Mar 24 23:27	16° γ 39'33 24° Υ 41'52	0-33-33
max. Earth dist.	15865 Apr 18 07:41	16° 8 51'04	1.40620 AU	desc. node	15866 Mar 29 00:48	-	1 2022 6 1 7 7
evening rise	15865 Apr 22 14:59	24° 8 06'15		max. Earth dist.	15866 Mar 31 13:41	29° Y ′21′26	1.38326 AU
	15865 Apr 26 05:57	Π °0			15866 Mar 31 22:12	0°8	
	15865 May 16 17:07	0		evening rise	15866 Apr 04 06:55	5° 8 57'38	
evening max el	15865 May 27 00:57	12° © 11'17	23°29'43		15866 Apr 19 05:33	Π \circ 0	
asc. node	15865 Jun 05 11:37	18° © 21'35		evening max el	15866 May 09 14:22	26° Ⅱ 05'39	24°49'49
retrograde	15865 Jun 06 17:49	18° © 28'25			15866 May 14 02:05	0 \circ \odot	
evening set	15865 Jun 11 23:23	16°9514'50		retrograde	15866 May 21 09:41	2°958'53	
inferior conj	15865 Jun 17 08:09	9° © 48'36	2°52'10	asc. node	15866 May 23 08:43	2° 5 42'41	
minimum elong	15865 Jun 17 06:38	9° © 53'49	2°51'08	evening set	15866 May 27 02:38	0° ട്ട 34'14	
min. Earth dist.	15865 Jun 16 18:15	10°936'24	0.69006 AU		15866 May 27 17:44	30°R Ⅱ	
morning rise	15865 Jun 22 13:52	3°9542'17	0.07000710	min. Earth dist.	15866 May 31 13:11	25° I I32'46	0.68407 AU
direct	15865 Jun 26 19:26	2°901'55		inferior conj	15866 Jun 01 16:02	24° I I03'44	
		6°9541'48	20°40'53	•	15866 Jun 01 13:59	24° II 10'33	
morning max el	15865 Jul 04 23:57		20 40 33	minimum elong			2 20 30
desc. node	15865 Jul 08 04:06	10°9509'07		morning rise	15866 Jun 07 01:34	18° Ⅱ 06'40	
	15865 Jul 22 16:57	0 ° Ω		direct	15866 Jun 10 19:30	16° Ⅱ 46'05	
morning set	15865 Aug 03 11:48	17° Ω 48'48		morning max el	15866 Jun 18 01:34	20° Ⅱ 46′19	19°33'29
	15865 Aug 11 05:33	0° ™		desc. node	15866 Jun 25 01:15	29° Ⅱ 09'01	
max. Earth dist.	15865 Aug 11 22:06	1° Mp 06'26	1.43691 AU		15866 Jun 25 16:13	0 \circ \odot	
				greatest brilliancy	15866 Jun 30 18:41	7°ഇ16'08	-0.6m
superior conj	15865 Aug 18 13:02	11° m 56'52	-1°42'26	morning set	15866 Jul 13 15:30	26° © 40'52	
minimum elong	15865 Aug 18 20:47	12° m)29'12	1°41'57		15866 Jul 15 19:18	$0^{\circ}\Omega$	
C	•						
	15865 Aug 29 01:50	0∘ ত		max. Earth dist.	15866 Jul 25 12:36	15°Ω07'58	1.45137 AU
evening rise	15865 Aug 29 01:50 15865 Aug 30 18:59	0° <u>ჲ</u> 3° ჲ 00'36		max. Earth dist.	15866 Jul 25 12:36	15° Ω 07'58	1.45137 AU
evening rise	15865 Aug 30 18:59	3° ჲ 00'36					
asc. node	15865 Aug 30 18:59 15865 Sep 01 12:14	3° £ 00'36 6° £ 01'51	18°01'30	superior conj	15866 Jul 29 19:05	21° Ω 54'09	-2°06'41
•	15865 Aug 30 18:59 15865 Sep 01 12:14 15865 Sep 16 09:49	3° ჲ 00'36 6° ჲ 01'51 28° ჲ 47'36	18°01'30		15866 Jul 29 19:05 15866 Jul 30 01:03	21°Ω54'09 22°Ω17'58	-2°06'41
asc. node evening max el	15865 Aug 30 18:59 15865 Sep 01 12:14 15865 Sep 16 09:49 15865 Sep 17 17:49	3° Ω 00'36 6° Ω 01'51 28° Ω 47'36 0° M	18°01'30	superior conj minimum elong	15866 Jul 29 19:05 15866 Jul 30 01:03 15866 Aug 03 19:44	21° N 54'09 22° N 17'58 0° M	-2°06'41
asc. node evening max el retrograde	15865 Aug 30 18:59 15865 Sep 01 12:14 15865 Sep 16 09:49 15865 Sep 17 17:49 15865 Sep 23 00:12	3° Ω 00'36 6° Ω 01'51 28° Ω 47'36 0° M 2° M 12'30	18°01'30	superior conj minimum elong evening rise	15866 Jul 29 19:05 15866 Jul 30 01:03 15866 Aug 03 19:44 15866 Aug 12 19:50	21° N 54'09 22° N 17'58 0° M 14° M 51'30	-2°06'41
asc. node evening max el	15865 Aug 30 18:59 15865 Sep 01 12:14 15865 Sep 16 09:49 15865 Sep 17 17:49 15865 Sep 23 00:12 15865 Sep 25 10:46	3° Ω 00'36 6° Ω 01'51 28° Ω 47'36 0° M 2° M 12'30 1° M 44'06	18°01'30	superior conj minimum elong	15866 Jul 29 19:05 15866 Jul 30 01:03 15866 Aug 03 19:44 15866 Aug 12 19:50 15866 Aug 19 08:52	21° \$\Omega 54'09 22° \$\Omega 17'58 0° mp 14° mp 51'30 25° mp 44'50	-2°06'41
asc. node evening max el retrograde evening set	15865 Aug 30 18:59 15865 Sep 01 12:14 15865 Sep 16 09:49 15865 Sep 17 17:49 15865 Sep 23 00:12 15865 Sep 25 10:46 15865 Sep 28 10:12	3° Ω 00'36 6° Ω 01'51 28° Ω 47'36 0° M 2° M 12'30 1° M 44'06 30° RΩ		superior conj minimum elong evening rise asc. node	15866 Jul 29 19:05 15866 Jul 30 01:03 15866 Aug 03 19:44 15866 Aug 12 19:50 15866 Aug 19 08:52 15866 Aug 21 23:54	21° \$\Omega 54'09\$ 22° \$\Omega 17'58\$ 0° mo 14° mo 51'30 25° mo 44'50 0° \$\Omega\$	-2°06'41 2°06'57
asc. node evening max el retrograde evening set inferior conj	15865 Aug 30 18:59 15865 Sep 01 12:14 15865 Sep 16 09:49 15865 Sep 17 17:49 15865 Sep 23 00:12 15865 Sep 25 10:46 15865 Sep 28 10:12 15865 Oct 02 03:13	3° Ω 00'36 6° Ω 01'51 28° Ω 47'36 0° M 2° M 12'30 1° M 44'06 30° RΩ 26° Ω 39'19	0°35'23	superior conj minimum elong evening rise asc. node evening max el	15866 Jul 29 19:05 15866 Jul 30 01:03 15866 Aug 03 19:44 15866 Aug 12 19:50 15866 Aug 19 08:52 15866 Aug 21 23:54 15866 Aug 31 00:39	21° \$\Omega 54'09\$ 22° \$\Omega 17'58\$ 0° \$\mathbf{m}\$ 51'30\$ 25° \$\mathbf{m}\$ 44'50\$ 0° \$\Omega \$\Delta 16'08\$	-2°06'41
asc. node evening max el retrograde evening set	15865 Aug 30 18:59 15865 Sep 01 12:14 15865 Sep 16 09:49 15865 Sep 17 17:49 15865 Sep 23 00:12 15865 Sep 25 10:46 15865 Sep 28 10:12 15865 Oct 02 03:13 15865 Oct 02 04:16	3° Ω 00'36 6° Ω 01'51 28° Ω 47'36 0° M 2° M 12'30 1° M 44'06 30° RΩ 26° Ω 39'19 26° Ω 36'42		superior conj minimum elong evening rise asc. node evening max el retrograde	15866 Jul 29 19:05 15866 Jul 30 01:03 15866 Aug 03 19:44 15866 Aug 12 19:50 15866 Aug 19 08:52 15866 Aug 21 23:54 15866 Aug 31 00:39 15866 Sep 06 09:21	21° \$\Omega 54'09 22° \$\Omega 17'58 0° \$\mathbf{m}\$ 51'30 25° \$\mathbf{m}\$ 44'50 0° \$\Omega\$ 12° \$\Omega 16'08 15° \$\Omega 37'04	-2°06'41 2°06'57
asc. node evening max el retrograde evening set inferior conj	15865 Aug 30 18:59 15865 Sep 01 12:14 15865 Sep 16 09:49 15865 Sep 17 17:49 15865 Sep 23 00:12 15865 Sep 25 10:46 15865 Sep 28 10:12 15865 Oct 02 03:13	3° Ω 00'36 6° Ω 01'51 28° Ω 47'36 0° M 2° M 12'30 1° M 44'06 30° RΩ 26° Ω 39'19	0°35'23	superior conj minimum elong evening rise asc. node evening max el retrograde evening set	15866 Jul 29 19:05 15866 Jul 30 01:03 15866 Aug 03 19:44 15866 Aug 12 19:50 15866 Aug 19 08:52 15866 Aug 21 23:54 15866 Aug 31 00:39	21° \$\Omega 54'09 22° \$\Omega 17'58 0° \$\mathbf{m} \tau 13'0 25° \$\mathbf{m} \tau 44'50 0° \$\Omega \tau 16'08 15° \$\Omega 37'04 14° \$\Omega 55'29	-2°06'41 2°06'57
asc. node evening max el retrograde evening set inferior conj minimum elong	15865 Aug 30 18:59 15865 Sep 01 12:14 15865 Sep 16 09:49 15865 Sep 17 17:49 15865 Sep 23 00:12 15865 Sep 25 10:46 15865 Sep 28 10:12 15865 Oct 02 03:13 15865 Oct 02 04:16	3° Ω 00'36 6° Ω 01'51 28° Ω 47'36 0° M 2° M 12'30 1° M 44'06 30° RΩ 26° Ω 39'19 26° Ω 36'42	0°35'23	superior conj minimum elong evening rise asc. node evening max el retrograde	15866 Jul 29 19:05 15866 Jul 30 01:03 15866 Aug 03 19:44 15866 Aug 12 19:50 15866 Aug 19 08:52 15866 Aug 21 23:54 15866 Aug 31 00:39 15866 Sep 06 09:21	21° \$\Omega 54'09 22° \$\Omega 17'58 0° \$\mathbf{m}\$ 51'30 25° \$\mathbf{m}\$ 44'50 0° \$\Omega\$ 12° \$\Omega 16'08 15° \$\Omega 37'04 14° \$\Omega 55'29	-2°06'41 2°06'57
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asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el	15865 Aug 30 18:59 15865 Sep 01 12:14 15865 Sep 16 09:49 15865 Sep 17 17:49 15865 Sep 23 00:12 15865 Sep 25 10:46 15865 Sep 28 10:12 15865 Oct 02 03:13 15865 Oct 02 04:16 15865 Oct 04 01:05 15865 Oct 05 03:51 15865 Oct 05 03:51 15865 Oct 15 11:06 15865 Oct 29 15:42 15865 Nov 02 02:27 15865 Nov 22 11:31	3° \$\textit{\Omega}00'36 6° \$\textit{\Omega}01'51 28° \$\textit{\Omega}47'36 0° \$\textit{\mathbb{m}}. 2° \$\textit{\mathbb{m}}.12'30 1° \$\textit{\mathbb{m}}.44'06 30° \$\textit{\mathbb{R}} \textit{\Omega} 26° \$\textit{\Omega}39'19 26° \$\textit{\Omega}36'42 24° \$\textit{\Omega}45'21 23° \$\textit{\mathbb{m}}.40'53 18° \$\textit{\mathbb{m}}.24'12 26° \$\textit{\mathbb{m}}.19'49 0° \$\textit{\mathbb{m}}. 0° \$\textit{\mathbb{Z}}	0°35'23 0°35'16 0.61408 AU	superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct	15866 Jul 29 19:05 15866 Jul 30 01:03 15866 Aug 03 19:44 15866 Aug 12 19:50 15866 Aug 19 08:52 15866 Aug 21 23:54 15866 Sep 06 09:21 15866 Sep 09 04:31 15866 Sep 15 07:24 15866 Sep 15 09:37 15866 Sep 17 21:03 15866 Sep 20 22:29 15866 Sep 21 12:44 15866 Sep 28 03:49	21° \$\Omega 54'09\\ 22° \$\Omega 17'58\\ 0° mp\\ 14° mp 51'30\\ 25° mp 44'50\\ 0° \omega \\ 12° \Omega 16'08\\ 15° \Omega 37'04\\ 14° \Omega 55'29\\ 9° \Omega 33'36\\ 9° \Omega 27'27\\ 6° \Omega 43'03\\ 3° \Omega 46'10\\ 3° \Omega 17'46\\ 0° \Omega 46'02\\	-2°06'41 2°06'57 18°09'02 1°37'58 1°37'17 0.63628 AU
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asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set max. Earth dist. superior conj	15865 Aug 30 18:59 15865 Sep 01 12:14 15865 Sep 16 09:49 15865 Sep 17 17:49 15865 Sep 23 00:12 15865 Sep 25 10:46 15865 Sep 28 10:12 15865 Oct 02 03:13 15865 Oct 02 04:16 15865 Oct 04 01:05 15865 Oct 05 03:51 15865 Oct 08 18:57 15865 Oct 09 15:42 15865 Nov 02 02:27 15865 Nov 02 02:27 15865 Nov 22 11:31 15865 Nov 28 13:20 15865 Dec 07 10:42 15865 Dec 07 17:50	3° 200'36 6° 201'51 28° 247'36 0° M 2° M.12'30 1° M.44'06 30° R.2 26° 239'19 26° 236'42 24° 245'21 23° 240'43 20° 240'53 18° 224'12 26° 219'49 0° M 0° ₹ 11° ₹23'27 18° ₹34'40 0° ₹ 0° ₹39'11	0°35'23 0°35'16 0.61408 AU 27°59'09 1.31349 AU 1°25'29	superior conj 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	15866 Jul 29 19:05 15866 Jul 30 01:03 15866 Aug 03 19:44 15866 Aug 12 19:50 15866 Aug 19 08:52 15866 Aug 21 23:54 15866 Sep 06 09:21 15866 Sep 09 04:31 15866 Sep 15 07:24 15866 Sep 15 07:24 15866 Sep 17 21:03 15866 Sep 20 22:29 15866 Sep 21 12:44 15866 Sep 28 03:49 15866 Oct 12 00:52 15866 Nov 14 18:16 15866 Nov 15 10:12	21° \$\alpha 54'09 22° \$\alpha 17'58 0° \$\mathbf{m}\$ 51'30 25° \$\mathbf{m}\$ 44'50 0° \$\alpha\$ 12° \$\alpha 16'08 15° \$\alpha 37'04 14° \$\alpha 55'29 9° \$\alpha 33'36 9° \$\alpha 27'27 6° \$\alpha 43'03 3° \$\alpha 46'10 3° \$\alpha 17'46 0° \$\alpha 46'02 8° \$\alpha 45'25 0° \$\mathbf{m}\$ 0° \$\neq 10' \$\neq 19'02	-2°06'41 2°06'57 18°09'02 1°37'58 1°37'17 0.63628 AU
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asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set max. Earth dist. superior conj	15865 Aug 30 18:59 15865 Sep 01 12:14 15865 Sep 16 09:49 15865 Sep 17 17:49 15865 Sep 23 00:12 15865 Sep 25 10:46 15865 Sep 28 10:12 15865 Oct 02 03:13 15865 Oct 02 04:16 15865 Oct 04 01:05 15865 Oct 05 03:51 15865 Oct 08 18:57 15865 Oct 09 15:42 15865 Nov 02 02:27 15865 Nov 02 02:27 15865 Nov 22 11:31 15865 Nov 28 13:20 15865 Dec 07 10:42 15865 Dec 07 17:50	3° 200'36 6° 201'51 28° 247'36 0° M 2° M.12'30 1° M.44'06 30° R.2 26° 239'19 26° 236'42 24° 245'21 23° 240'43 20° 240'53 18° 224'12 26° 219'49 0° M 0° ₹ 11° ₹23'27 18° ₹34'40 0° ₹ 0° ₹39'11	0°35'23 0°35'16 0.61408 AU 27°59'09 1.31349 AU 1°25'29	superior conj 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.	15866 Jul 29 19:05 15866 Jul 30 01:03 15866 Aug 03 19:44 15866 Aug 12 19:50 15866 Aug 19 08:52 15866 Aug 21 23:54 15866 Sep 06 09:21 15866 Sep 06 09:21 15866 Sep 15 07:24 15866 Sep 15 09:37 15866 Sep 17 21:03 15866 Sep 20 22:29 15866 Sep 21 12:44 15866 Sep 22 02:29 15866 Oct 12 00:52 15866 Oct 12 00:52 15866 Oct 12 13:30 15866 Nov 14 18:16 15866 Nov 15 10:12	21° \$\alpha 54'09 22° \$\alpha 17'58 0° \$\mathbf{m}\$ 51'30 25° \$\mathbf{m}\$ 44'50 0° \$\alpha\$ 12° \$\alpha 16'08\$ 15° \$\alpha 37'04\$ 14° \$\alpha 55'29 9° \$\alpha 33'36 9° \$\alpha 27'27 6° \$\alpha 43'03 3° \$\alpha 46'10 3° \$\alpha 17'46 0° \$\alpha 46'02 8° \$\alpha 45'25 0° \$\mathbf{m}\$ 0° \$\neq 10'2 2° \$\neq 11'42	-2°06'41 2°06'57 18°09'02 1°37'58 1°37'17 0.63628 AU 27°43'34
asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong	15865 Aug 30 18:59 15865 Sep 01 12:14 15865 Sep 16 09:49 15865 Sep 17 17:49 15865 Sep 23 00:12 15865 Sep 25 10:46 15865 Sep 28 10:12 15865 Oct 02 03:13 15865 Oct 02 04:16 15865 Oct 04 01:05 15865 Oct 05 03:51 15865 Oct 05 03:51 15865 Oct 15 11:06 15865 Oct 29 15:42 15865 Nov 22 11:31 15865 Nov 22 11:31 15865 Nov 28 13:20 15865 Dec 07 10:42 15865 Dec 07 17:50 15865 Dec 09 09:44 15865 Dec 09 07:51	3° 200'36 6° 201'51 28° 247'36 0° M 2° M.12'30 1° M.44'06 30° R 2 26° 239'19 26° 236'42 24° 240'53 18° 224'12 26° 219'49 0° M 0° \$7 11° \$723'27 18° \$34'40 0° \$39'11 4° \$19'39 4° \$09'11	0°35'23 0°35'16 0.61408 AU 27°59'09 1.31349 AU 1°25'29	superior conj 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.	15866 Jul 29 19:05 15866 Jul 30 01:03 15866 Aug 03 19:44 15866 Aug 12 19:50 15866 Aug 19 08:52 15866 Aug 21 23:54 15866 Sep 06 09:21 15866 Sep 06 09:21 15866 Sep 15 07:24 15866 Sep 15 09:37 15866 Sep 17 21:03 15866 Sep 20 22:29 15866 Sep 21 12:44 15866 Sep 28 03:49 15866 Oct 12 00:52 15866 Nov 14 18:16 15866 Nov 15 10:12 15866 Nov 15 20:45 15866 Nov 20 17:21	21° \$\alpha 54'09 22° \$\alpha 17'58 0° mp 14° mp 51'30 25° mp 44'50 0° \omega 12° \omega 16'08 15° \omega 37'04 14° \omega 55'29 9° \omega 33'36 9° \omega 27'27 6° \omega 43'03 3° \omega 46'10 3° \omega 17'46 0° \omega 46'02 8° \omega 45'25 0° m. 0° \$\struct 10' \struct 19'02 2° \$\struct 11'42 12° \$\struct 14'02	-2°06'41 2°06'57 18°09'02 1°37'58 1°37'17 0.63628 AU 27°43'34
asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong	15865 Aug 30 18:59 15865 Sep 01 12:14 15865 Sep 16 09:49 15865 Sep 17 17:49 15865 Sep 23 00:12 15865 Sep 25 10:46 15865 Sep 28 10:12 15865 Oct 02 03:13 15865 Oct 02 04:16 15865 Oct 04 01:05 15865 Oct 05 03:51 15865 Oct 05 03:51 15865 Oct 15 11:06 15865 Oct 29 15:42 15865 Nov 22 11:31 15865 Nov 22 11:31 15865 Nov 28 13:20 15865 Dec 07 10:42 15865 Dec 07 17:50 15865 Dec 09 09:44 15865 Dec 09 07:51 15865 Dec 16 02:34	3° 200'36 6° 201'51 28° 247'36 0° M 2° M 12'30 1° M 44'06 30° R 2 26° 239'19 26° 236'42 24° 245'21 23° 240'43 20° 24'12 26° 219'49 0° M 0° \$7 11° \$723'27 18° \$734'40 0° \$7 0° \$739'11 4° \$719'39 4° \$09'11 19° \$08'13	0°35'23 0°35'16 0.61408 AU 27°59'09 1.31349 AU 1°25'29	superior conj 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.	15866 Jul 29 19:05 15866 Jul 30 01:03 15866 Aug 03 19:44 15866 Aug 12 19:50 15866 Aug 19 08:52 15866 Aug 21 23:54 15866 Sep 06 09:21 15866 Sep 09 04:31 15866 Sep 15 07:24 15866 Sep 15 09:37 15866 Sep 17 21:03 15866 Sep 20 22:29 15866 Sep 21 12:44 15866 Sep 22 03:49 15866 Oct 12 00:52 15866 Nov 14 18:16 15866 Nov 15 10:12 15866 Nov 15 10:12 15866 Nov 20 17:21	21° \$\alpha 54'09 22° \$\alpha 17'58 0° mp 14° mp 51'30 25° mp 44'50 0° \omega 12° \omega 16'08 15° \omega 37'04 14° \omega 55'29 9° \omega 33'36 9° \omega 27'27 6° \omega 43'03 3° \omega 46'10 3° \omega 17'46 0° \omega 46'02 8° \omega 45'25 0° m. 0° \script* 1° \script* 19'02 2° \script* 11'42 12° \script* 14'02	-2°06'41 2°06'57 18°09'02 1°37'58 1°37'17 0.63628 AU 27°43'34
asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise	15865 Aug 30 18:59 15865 Sep 01 12:14 15865 Sep 16 09:49 15865 Sep 17 17:49 15865 Sep 23 00:12 15865 Sep 25 10:46 15865 Sep 28 10:12 15865 Oct 02 03:13 15865 Oct 02 04:16 15865 Oct 04 01:05 15865 Oct 05 03:51 15865 Oct 05 03:51 15865 Oct 15 11:06 15865 Oct 29 15:42 15865 Nov 22 11:31 15865 Nov 22 11:31 15865 Nov 22 11:31 15865 Dec 02 02:38 15865 Dec 07 10:42 15865 Dec 09 09:44 15865 Dec 09 07:51 15865 Dec 16 02:34 15865 Dec 21 07:36	3° £00'36 6° £01'51 28° £47'36 0° M. 2° M.12'30 1° M.44'06 30° R.£ 26° £39'19 26° £36'42 24° £45'21 23° £40'53 18° £24'12 26° £19'49 0° M. 0° ₺ 11° ₺23'27 18° ₺34'40 0° ₺ 0° ₺39'11 4° ₺19'39 4° ₺09'11 19° ₺08'13 0° ≈	0°35'23 0°35'16 0.61408 AU 27°59'09 1.31349 AU 1°25'29	superior conj 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.	15866 Jul 29 19:05 15866 Jul 30 01:03 15866 Aug 03 19:44 15866 Aug 12 19:50 15866 Aug 19 08:52 15866 Aug 21 23:54 15866 Sep 21 23:54 15866 Sep 06 09:21 15866 Sep 09 04:31 15866 Sep 15 07:24 15866 Sep 15 09:37 15866 Sep 17 21:03 15866 Sep 20 22:29 15866 Sep 21 12:44 15866 Sep 28 03:49 15866 Oct 12 00:52 15866 Oct 28 13:30 15866 Nov 14 18:16 15866 Nov 15 10:12 15866 Nov 20 17:21	21° \$\alpha 54'09 22° \$\alpha 17'58 0° mp 14° mp 51'30 25° mp 44'50 0° \omega 12° \omega 16'08 15° \omega 37'04 14° \omega 55'29 9° \omega 33'36 9° \omega 27'27 6° \omega 43'03 3° \omega 46'10 3° \omega 17'46 0° \omega 46'02 8° \omega 45'25 0° m. 0° \nrac{\sqrt{n}}{\sqrt{n}} 19'02 2° \nrac{\sqrt{n}}{\sqrt{11}} 14'02 18° \nrac{\sqrt{n}}{\sqrt{38}} 38'13 18° \nrac{\sqrt{n}}{\sqrt{25}} 34	-2°06'41 2°06'57 18°09'02 1°37'58 1°37'17 0.63628 AU 27°43'34
asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise	15865 Aug 30 18:59 15865 Sep 01 12:14 15865 Sep 16 09:49 15865 Sep 17 17:49 15865 Sep 23 00:12 15865 Sep 25 10:46 15865 Sep 28 10:12 15865 Oct 02 03:13 15865 Oct 02 04:16 15865 Oct 04 01:05 15865 Oct 05 03:51 15865 Oct 05 03:51 15865 Oct 15 11:06 15865 Oct 29 15:42 15865 Nov 02 02:27 15865 Nov 02 02:27 15865 Nov 22 11:31 15865 Nov 28 13:20 15865 Dec 02 02:38 15865 Dec 07 10:42 15865 Dec 07 17:50 15865 Dec 09 09:44 15865 Dec 09 07:51 15865 Dec 16 02:34 15865 Dec 21 07:36 15865 Dec 23 023:26	3° £00'36 6° £01'51 28° £47'36 0° M. 2° M.12'30 1° M.44'06 30° R.£ 26° £39'19 26° £36'42 24° £45'21 23° £40'53 18° £24'12 26° £19'49 0° M. 0° ₺ 11° ₺23'27 18° ₺34'40 0° ₺ 0° ₺39'11 4° ₺19'39 4° ₺09'11 19° ₺08'13 0° ≈ 17° ≈08'44	0°35'23 0°35'16 0.61408 AU 27°59'09 1.31349 AU 1°25'29 1°26'06	superior conj 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	15866 Jul 29 19:05 15866 Jul 30 01:03 15866 Aug 03 19:44 15866 Aug 12 19:50 15866 Aug 19 08:52 15866 Aug 21 23:54 15866 Sep 21 23:54 15866 Sep 06 09:21 15866 Sep 09 04:31 15866 Sep 15 07:24 15866 Sep 15 09:37 15866 Sep 17 21:03 15866 Sep 20 22:29 15866 Sep 21 12:44 15866 Sep 28 03:49 15866 Oct 12 00:52 15866 Oct 28 13:30 15866 Nov 14 18:16 15866 Nov 15 10:12 15866 Nov 20 17:21 15866 Nov 20 17:21	21° \$\alpha 54'09 22° \$\alpha 17'58 0° mp 14° mp 51'30 25° mp 44'50 0° \overline{\Omega} 12° \overline{\Omega} 16'08 15° \overline{\Omega} 37'04 14° \overline{\Omega} 55'29 9° \overline{\Omega} 33'36 9° \overline{\Omega} 27'27 6° \overline{\Omega} 43'03 3° \overline{\Omega} 46'10 3° \overline{\Omega} 17'46 0° \overline{\Omega} 45'25 0° m. 0° \neq \display 1° \neq 19'02 2° \neq 11'42 12° \neq 14'02 18° \neq 38'13 18° \neq 25'34 0° \overline{\Omega}	-2°06'41 2°06'57 18°09'02 1°37'58 1°37'17 0.63628 AU 27°43'34
asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node	15865 Aug 30 18:59 15865 Sep 01 12:14 15865 Sep 16 09:49 15865 Sep 17 17:49 15865 Sep 23 00:12 15865 Sep 25 10:46 15865 Sep 28 10:12 15865 Oct 02 03:13 15865 Oct 02 04:16 15865 Oct 04 01:05 15865 Oct 05 03:51 15865 Oct 05 03:51 15865 Oct 15 11:06 15865 Oct 29 15:42 15865 Nov 02 02:27 15865 Nov 02 02:27 15865 Nov 02 02:27 15865 Nov 02 02:27 15865 Dec 02 02:38 15865 Dec 07 10:42 15865 Dec 07 17:50 15865 Dec 09 09:44 15865 Dec 09 07:51 15865 Dec 16 02:34 15865 Dec 21 07:36 15865 Dec 30 23:26 15866 Jan 09 20:43	3° £00'36 6° £01'51 28° £47'36 0° M. 2° M.12'30 1° M.44'06 30° R.£ 26° £39'19 26° £36'42 24° £45'21 23° £40'43 20° £40'53 18° £24'12 26° £19'49 0° M. 0° ₺ 11° ₺23'27 18° ₺33'44 0° ₺ 0° ₺39'11 4° ₺19'39 4° ₺09'11 19° ₺08'13 0° ඎ	0°35'23 0°35'16 0.61408 AU 27°59'09 1.31349 AU 1°25'29 1°26'06	superior conj 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	15866 Jul 29 19:05 15866 Jul 30 01:03 15866 Aug 03 19:44 15866 Aug 12 19:50 15866 Aug 19 08:52 15866 Aug 21 23:54 15866 Sep 06 09:21 15866 Sep 09 04:31 15866 Sep 15 07:24 15866 Sep 15 09:37 15866 Sep 17 21:03 15866 Sep 20 22:29 15866 Sep 21 12:44 15866 Sep 22 12:44 15866 Oct 12 00:52 15866 Oct 28 13:30 15866 Nov 14 18:16 15866 Nov 15 10:12 15866 Nov 20 17:21 15866 Nov 23 16:48 15866 Nov 23 16:48 15866 Nov 23 14:28 15866 Nov 28 21:31 15866 Nov 30 13:20	21° \$\Omega 54'09 22° \$\Omega 17'58 0° mp 14° mp 51'30 25° mp 44'50 0° \Omega 12° \Omega 16'08 15° \Omega 37'04 14° \Omega 55'29 9° \Omega 33'36 9° \Omega 27'27 6° \Omega 43'03 3° \Omega 46'10 3° \Omega 17'46 0° \Omega 46'02 8° \Omega 45'25 0° ml 0° \$\omega 1' \omega 19'02 2° \$\omega 11'42 12° \$\omega 14'02 18° \$\omega 38'13 18° \$\omega 25'334 0° \omega 3° \omega 35'42	-2°06'41 2°06'57 18°09'02 1°37'58 1°37'17 0.63628 AU 27°43'34

	15966 Dec 22 20.55	1100027127	22024122		150(7 D 20 10:44	270-710100	
evening max el	15866 Dec 23 20:55	11°≈37'27	23 24 33	evening set	15867 Dec 20 19:44	27° ろ 19'08	505(124
retrograde	15867 Jan 06 04:52	18°≈13'28		inferior conj	15867 Dec 29 11:09	23° ♂ 28'42	
evening set	15867 Jan 10 15:26	17°≈30'46	0.54000.444	minimum elong	15867 Dec 29 07:06		5°55'28
min. Earth dist.	15867 Jan 17 07:42	14° ≈ 21'27	0.54988 AU	min. Earth dist.	15867 Dec 29 13:06	23° ⋜ 25'58	0.54401 AU
inferior conj	15867 Jan 18 18:56	13° ≈ 30'18		morning rise	15868 Jan 06 19:06	19° ප් 40'41	
minimum elong	15867 Jan 19 00:04	13° ≈ 22'51	5°49'50	direct	15868 Jan 10 11:36	19° る 10'58	
morning rise	15867 Jan 27 10:08	9° ≈ 37'57		morning max el	15868 Jan 23 00:48	25° る 15'41	22°10'29
direct	15867 Jan 30 02:49	9° ≈ 20′24			15868 Jan 27 07:47	0° ≈	
morning max el	15867 Feb 10 05:23	14° ≈ 42′21	20°33'45	asc. node	15868 Jan 29 06:05	2° ≈ 32'14	
asc. node	15867 Feb 11 08:46	15° ≈ 51'46		morning set	15868 Feb 13 09:41	29° ≈ 52'44	
	15867 Feb 21 04:27	0° ∀			15868 Feb 13 11:04	0° ∀	
morning set	15867 Feb 28 23:07	15° ∺ 09'10					
				superior conj	15868 Feb 20 11:25	14° ¥ 57′27	1°18'34
superior conj	15867 Mar 08 11:56	0° Ƴ 42'23	0°59'43	minimum elong	15868 Feb 20 13:44	15°) €09'40	1°18'35
minimum elong	15867 Mar 08 14:29	0° Y ′55′22	0°59'25	max. Earth dist.	15868 Feb 24 10:35	23°) 11'46	1.34167 AU
•	15867 Mar 08 03:36	$0^{\circ}\mathbf{Y}$			15868 Feb 27 20:26	$0^{\circ}\mathbf{\Upsilon}$	
max. Earth dist.	15867 Mar 13 21:06	11° Y 21'43	1.36108 AU	evening rise	15868 Feb 28 18:51	1° Y '48'45	
desc. node	15867 Mar 15 21:25	15° Y °11′08		desc. node	15868 Mar 01 18:00	5° Ƴ 33'01	
evening rise	15867 Mar 17 17:24	18° Y 35'12		dese. Hode	15868 Mar 16 04:19	0°8	
evening rise	15867 Mar 24 04:52	0°8		evening max el	15868 Apr 03 17:52	23° 8 40'13	26°57'41
	15867 Apr 13 09:35	0°II		evening max er	15868 Apr 12 07:01	0°Ⅱ	20 37 41
avanina may al	15867 Apr 13 03:59	9° П 58'06	26°01'42	ratra ara da	15868 Apr 17 02:11	1° Ⅱ 09'22	
evening max el		9 Ⅲ 3806 17° Ⅲ 15'26	20 01 42	retrograde		30°R B	
retrograde	15867 May 04 20:52				15868 Apr 21 12:39		
asc. node	15867 May 10 05:53	15° Ⅱ 20'32		evening set	15868 Apr 23 14:39	28° 8 37'27	
evening set	15867 May 11 00:23	14° ∏ 44'22		asc. node	15868 Apr 26 03:08	26° 8 18'39	
min. Earth dist.	15867 May 15 04:16	10° Ⅱ 18'48	0.67344 AU	min. Earth dist.	15868 Apr 27 13:19	24° 8 45'52	0.65858 AU
inferior conj	15867 May 16 20:03	8° Ⅱ 14'23	1°53'05	inferior conj	15868 Apr 29 17:52	22° 8 14'08	1°05'42
minimum elong	15867 May 16 17:54	8° Ⅱ 21'08	1°51'42	minimum elong	15868 Apr 29 16:16	22° 8 18'46	1°04'32
morning rise	15867 May 22 12:07	2° Ⅱ 27'51		morning rise	15868 May 05 19:18	16° 8 39'57	
direct	15867 May 25 19:17	1° Ⅱ 25'53		direct	15868 May 08 16:39	15° 8 54'25	
morning max el	15867 Jun 01 10:13	4° Ⅱ 58'39	18°41'39	morning max el	15868 May 15 00:24	19° 8 12'19	18°06'30
desc. node	15867 Jun 11 22:17	18° Ⅱ 41'13			15868 May 23 07:39	$\Pi^{\circ}0$	
	15867 Jun 19 07:23	0° ©		desc. node	15868 May 28 19:14	8° Ⅱ 36'19	
morning set	15867 Jun 23 05:28	6°506'29		morning set	15868 Jun 02 20:10	16° Ⅱ 44'09	
max. Earth dist.	15067 I1 00 07:24	29° © 37'02	1.45899 AU		15060 I 11 02 20	0°€	
max. Darth dist.	15867 Jul 08 07:24	29 303/02	1. 1 3077 AU		15868 Jun 11 02:30	0 3	
max. Dartii dist.	15867 Jul 08 07:24 15867 Jul 08 13:18	0°Ω	1.43077 AO		15868 Jun 11 02:30	0 3	
max. Bartii dist.			1.430/) AU	superior conj	15868 Jun 17 02:30 15868 Jun 17 17:49	10°529'04	-2°01'20
superior conj				superior conj minimum elong			-2°01'20 2°01'39
	15867 Jul 08 13:18	0°N	-2°14'02		15868 Jun 17 17:49	10° © 29'04 9° © 59'32	
superior conj minimum elong	15867 Jul 08 13:18 15867 Jul 09 07:53	0° N 1° N 12'34 1° N 08'45	-2°14'02	minimum elong	15868 Jun 17 17:49 15868 Jun 17 10:18 15868 Jun 20 04:03	10° 5 29'04 9° 5 59'32 14° 5 16'54	2°01'39
superior conj	15867 Jul 08 13:18 15867 Jul 09 07:53 15867 Jul 09 06:55 15867 Jul 24 20:15	0°N 1°N12'34 1°N08'45 25°N40'35	-2°14'02	minimum elong max. Earth dist.	15868 Jun 17 17:49 15868 Jun 17 10:18 15868 Jun 20 04:03 15868 Jun 30 06:58	10°529'04 9°559'32 14°516'54 0°Ω	2°01'39
superior conj minimum elong evening rise	15867 Jul 08 13:18 15867 Jul 09 07:53 15867 Jul 09 06:55 15867 Jul 24 20:15 15867 Jul 27 13:18	0° N 1° N 12'34 1° N 08'45 25° N 40'35 0° M	-2°14'02 2°14'46	minimum elong max. Earth dist.	15868 Jun 17 17:49 15868 Jun 17 10:18 15868 Jun 20 04:03 15868 Jun 30 06:58 15868 Jul 03 20:57	10°529'04 9°559'32 14°516'54 0°€ 5°€32'10	2°01'39 1.45909 AU
superior conj minimum elong evening rise greatest brilliancy	15867 Jul 08 13:18 15867 Jul 09 07:53 15867 Jul 09 06:55 15867 Jul 24 20:15 15867 Jul 27 13:18 15867 Jul 31 06:27	0° N 1° N 12'34 1° N 08'45 25° N 40'35 0° M 5° M 54'41	-2°14'02	minimum elong max. Earth dist.	15868 Jun 17 17:49 15868 Jun 17 10:18 15868 Jun 20 04:03 15868 Jun 30 06:58 15868 Jul 03 20:57 15868 Jul 15 23:28	10°\$29'04 9°\$59'32 14°\$16'54 0°\$ 5°\$\alpha32'10 24°\$\O1'52	2°01'39 1.45909 AU
superior conj minimum elong evening rise greatest brilliancy asc. node	15867 Jul 08 13:18 15867 Jul 09 07:53 15867 Jul 09 06:55 15867 Jul 24 20:15 15867 Jul 27 13:18 15867 Jul 31 06:27 15867 Aug 06 05:34	0° N 1° N 12'34 1° N 08'45 25° N 40'35 0° M 5° M 54'41 15° M 09'28	-2°14'02 2°14'46 -0.9m	minimum elong max. Earth dist. evening rise greatest brilliancy	15868 Jun 17 17:49 15868 Jun 17 10:18 15868 Jun 20 04:03 15868 Jun 30 06:58 15868 Jul 03 20:57 15868 Jul 15 23:28 15868 Jul 20 01:43	10°\$29'04 9°\$59'32 14°\$16'54 0°\$A 5°\$A32'10 24°\$A01'52 0°\$\$\$\$\$\$	2°01'39 1.45909 AU
superior conj minimum elong evening rise greatest brilliancy asc. node evening max el	15867 Jul 08 13:18 15867 Jul 09 07:53 15867 Jul 09 06:55 15867 Jul 24 20:15 15867 Jul 27 13:18 15867 Jul 31 06:27 15867 Aug 06 05:34 15867 Aug 14 14:03	0° N 1° N 12'34 1° N 08'45 25° N 40'35 0° M 5° M 54'41 15° M 09'28 25° M 59'50	-2°14'02 2°14'46	minimum elong max. Earth dist. evening rise greatest brilliancy asc. node	15868 Jun 17 17:49 15868 Jun 17 10:18 15868 Jun 20 04:03 15868 Jun 30 06:58 15868 Jul 03 20:57 15868 Jul 15 23:28 15868 Jul 20 01:43 15868 Jul 23 02:18	10°\$29'04 9°\$59'32 14°\$16'54 0°\$A 5°\$A32'10 24°\$A01'52 0°\$	2°01'39 1.45909 AU -0.7m
superior conj minimum elong evening rise greatest brilliancy asc. node evening max el retrograde	15867 Jul 08 13:18 15867 Jul 09 07:53 15867 Jul 09 06:55 15867 Jul 24 20:15 15867 Jul 27 13:18 15867 Jul 31 06:27 15867 Aug 06 05:34 15867 Aug 14 14:03 15867 Aug 21 02:03	0° N 1° N 12'34 1° N 08'45 25° N 40'35 0° M 5° M 54'41 15° M 09'28 25° M 59'50 29° M 29'48	-2°14'02 2°14'46 -0.9m	minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el	15868 Jun 17 17:49 15868 Jun 17 10:18 15868 Jun 20 04:03 15868 Jun 30 06:58 15868 Jul 03 20:57 15868 Jul 15 23:28 15868 Jul 20 01:43 15868 Jul 23 02:18 15868 Jul 27 23:22	10°\$29'04 9°\$59'32 14°\$16'54 0°\$\lambda\$ 5°\$\lambda\$32'10 24°\$\lambda\$01'52 0°\$\lambda\$ 4°\$\lambda\$08'15 9°\$\lambda\$50'58	2°01'39 1.45909 AU
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superior conj minimum elong evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj	15867 Jul 08 13:18 15867 Jul 09 07:53 15867 Jul 09 06:55 15867 Jul 24 20:15 15867 Jul 27 13:18 15867 Jul 31 06:27 15867 Aug 06 05:34 15867 Aug 14 14:03 15867 Aug 21 02:03 15867 Aug 24 06:25 15867 Aug 29 23:13	0° N 1° N12'34 1° N08'45 25° N40'35 0° M 5° M 54'41 15° M 09'28 25° M 59'50 29° M 29'48 28° M 32'29 22° M 55'30	-2°14'02 2°14'46 -0.9m 18°34'14	minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set	15868 Jun 17 17:49 15868 Jun 20 04:03 15868 Jun 30 06:58 15868 Jul 03 20:57 15868 Jul 15 23:28 15868 Jul 20 01:43 15868 Jul 27 23:22 15868 Jul 27 23:22 15868 Aug 03 23:09 15868 Aug 07 13:15	10°\$29'04 9°\$59'32 14°\$16'54 0°\$\hat{\O}\$ 5°\$\hat{\O}\$32'10 24°\$\hat{\O}\$01'52 0°\$\hat{\O}\$ 4°\$\hat{\O}\$08'15 9°\$\hat{\O}\$50'58 13°\$\hat{\O}\$43'07 12°\$\hat{\O}\$28'28	2°01'39 1.45909 AU -0.7m 19°16'19
superior conj minimum elong evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong	15867 Jul 08 13:18 15867 Jul 09 07:53 15867 Jul 09 06:55 15867 Jul 24 20:15 15867 Jul 27 13:18 15867 Jul 31 06:27 15867 Aug 06 05:34 15867 Aug 14 14:03 15867 Aug 21 02:03 15867 Aug 22 06:25 15867 Aug 29 23:13 15867 Aug 30 01:29	0° Ω 1° Ω12'34 1° Ω08'45 25° Ω40'35 0° m 5° m 54'41 15° m 09'28 25° m 59'50 29° m 29'48 28° m 32'29 22° m 55'30 22° m 48'36	-2°14'02 2°14'46 -0.9m 18°34'14 2°22'05 2°21'20	minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj	15868 Jun 17 17:49 15868 Jun 20 04:03 15868 Jun 30 06:58 15868 Jul 03 20:57 15868 Jul 15 23:28 15868 Jul 20 01:43 15868 Jul 23 02:18 15868 Jul 27 23:22 15868 Aug 03 23:09 15868 Aug 07 13:15 15868 Aug 12 23:21	10°\$29'04 9°\$59'32 14°\$16'54 0°\$\hat{\O}\$ 5°\$\hat{\O}\$32'10 24°\$\hat{\O}\$01'52 0°\$\hat{\O}\$ 4°\$\hat{\O}\$08'15 9°\$\hat{\O}\$50'58 13°\$\hat{\O}\$43'07 12°\$\hat{\O}\$28'28 6°\$\hat{\O}\$37'54	2°01'39 1.45909 AU -0.7m 19°16'19 2°50'25
superior conj minimum elong evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	15867 Jul 08 13:18 15867 Jul 09 07:53 15867 Jul 09 06:55 15867 Jul 24 20:15 15867 Jul 27 13:18 15867 Jul 31 06:27 15867 Aug 06 05:34 15867 Aug 14 14:03 15867 Aug 21 02:03 15867 Aug 22 03:13 15867 Aug 29 23:13 15867 Aug 30 01:29 15867 Aug 31 23:21	0° Ω 1° Ω12'34 1° Ω08'45 25° Ω40'35 0° m 5° m 54'41 15° m 09'28 25° m 59'50 29° m 29'48 28° m 32'29 22° m 55'30 22° m 48'36 20° m 29'14	-2°14'02 2°14'46 -0.9m 18°34'14	minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong	15868 Jun 17 17:49 15868 Jun 20 04:03 15868 Jun 30 06:58 15868 Jul 03 20:57 15868 Jul 15 23:28 15868 Jul 20 01:43 15868 Jul 23 02:18 15868 Jul 27 23:22 15868 Aug 03 23:09 15868 Aug 07 13:15 15868 Aug 12 23:21 15868 Aug 13 01:01	10°\$29'04 9°\$59'32 14°\$16'54 0°\$\hat{\Omega}\$ 5°\$\hat{\Omega}\$32'10 24°\$\hat{\Omega}\$01'52 0°\$\tag{\Omega}\$4"\$\tag{\Omega}\$08'15 9°\$\tag{\Omega}\$50'58 13°\$\tag{\Omega}\$43'07 12°\$\tag{\Omega}\$28'28 6°\$\tag{\Omega}\$37'54 6°\$\tag{\Omega}\$32'26	2°01'39 1.45909 AU -0.7m 19°16'19 2°50'25 2°49'45
superior conj minimum elong evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	15867 Jul 08 13:18 15867 Jul 09 07:53 15867 Jul 09 06:55 15867 Jul 24 20:15 15867 Jul 27 13:18 15867 Jul 31 06:27 15867 Aug 06 05:34 15867 Aug 14 14:03 15867 Aug 21 02:03 15867 Aug 22 03:13 15867 Aug 29 23:13 15867 Aug 30 01:29 15867 Aug 31 23:21 15867 Sep 04 19:23	0° Ω 1° Ω12'34 1° Ω08'45 25° Ω40'35 0° m 5° m 54'41 15° m 09'28 25° m 59'50 29° m 29'48 28° m 32'29 22° m 48'36 20° m 29'14 16° m 31'05	-2°14'02 2°14'46 -0.9m 18°34'14 2°22'05 2°21'20	minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	15868 Jun 17 17:49 15868 Jun 20 04:03 15868 Jun 30 06:58 15868 Jul 03 20:57 15868 Jul 15 23:28 15868 Jul 20 01:43 15868 Jul 23 02:18 15868 Jul 27 23:22 15868 Aug 03 23:09 15868 Aug 07 13:15 15868 Aug 12 23:21 15868 Aug 13 01:01 15868 Aug 14 09:19	10°\$29'04 9°\$59'32 14°\$16'54 0°\$\hat{\O}\$ 5°\$\hat{\O}\$32'10 24°\$\hat{\O}\$01'52 0°\$\hat{\O}\$ 4°\$\hat{\O}\$08'15 9°\$\hat{\O}\$50'58 13°\$\hat{\O}\$43'07 12°\$\hat{\O}\$28'28 6°\$\hat{\O}\$37'54 6°\$\hat{\O}\$32'26 4°\$\hat{\O}\$47'12	2°01'39 1.45909 AU -0.7m 19°16'19 2°50'25
superior conj minimum elong evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	15867 Jul 08 13:18 15867 Jul 09 07:53 15867 Jul 09 06:55 15867 Jul 24 20:15 15867 Jul 27 13:18 15867 Jul 31 06:27 15867 Aug 06 05:34 15867 Aug 14 14:03 15867 Aug 21 02:03 15867 Aug 22 03:13 15867 Aug 29 23:13 15867 Aug 30 01:29 15867 Aug 31 23:21 15867 Sep 04 19:23 15867 Sep 07 19:54	0° Ω 1° Ω12'34 1° Ω08'45 25° Ω40'35 0° m 5° m 54'41 15° m 09'28 25° m 59'50 29° m 29'48 28° m 32'29 22° m 48'36 20° m 29'14 16° m 31'05 14° m 36'04	-2°14'02 2°14'46 -0.9m 18°34'14 2°22'05 2°21'20	minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong	15868 Jun 17 17:49 15868 Jun 20 04:03 15868 Jun 30 06:58 15868 Jul 03 20:57 15868 Jul 15 23:28 15868 Jul 20 01:43 15868 Jul 23 02:18 15868 Jul 27 23:22 15868 Aug 03 23:09 15868 Aug 07 13:15 15868 Aug 12 23:21 15868 Aug 13 01:01 15868 Aug 14 09:19 15868 Aug 18 12:09	10°\$29'04 9°\$59'32 14°\$16'54 0°\$\hat{\alpha}\$ 5°\$\hat{\alpha}32'10 24°\$\hat{\alpha}01'52 0°\$\mathred{m}\$ 4°\$\mathred{m}\tag{\alpha}8'15 9°\$\mathred{m}\tag{\alpha}3'07 12°\$\mathred{m}\tag{\alpha}28'28 6°\$\mathred{m}\tag{\alpha}37'54 6°\$\mathred{m}\tag{\alpha}2'26 4°\$\mathred{m}\tag{\alpha}7'12 0°\$\mathred{m}\tag{\alpha}11'27	2°01'39 1.45909 AU -0.7m 19°16'19 2°50'25 2°49'45
superior conj minimum elong evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	15867 Jul 08 13:18 15867 Jul 09 07:53 15867 Jul 09 06:55 15867 Jul 24 20:15 15867 Jul 27 13:18 15867 Jul 31 06:27 15867 Aug 06 05:34 15867 Aug 14 14:03 15867 Aug 21 02:03 15867 Aug 24 06:25 15867 Aug 29 23:13 15867 Aug 30 01:29 15867 Aug 31 23:21 15867 Sep 04 19:23 15867 Sep 07 19:54 15867 Sep 11 04:41	0° N 1° \(\Omega \) 12'34 1° \(\Omega \) 12'34 25° \(\Omega \) 40'35 0° \(\mathred{m} \) 5° \(\mathred{m} \) 54'41 15° \(\mathred{m} \) 09'28 25° \(\mathred{m} \) 59'50 29° \(\mathred{m} \) 22'29 22° \(\mathred{m} \) 35'30 22° \(\mathred{m} \) 48'36 20° \(\mathred{m} \) 29'14 16° \(\mathred{m} \) 31'05 14° \(\mathred{m} \) 36'04 13° \(\mathred{m} \) 55'328	-2°14'02 2°14'46 -0.9m 18°34'14 2°22'05 2°21'20 0.65592 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	15868 Jun 17 17:49 15868 Jun 20 04:03 15868 Jun 30 06:58 15868 Jul 03 20:57 15868 Jul 15 23:28 15868 Jul 20 01:43 15868 Jul 23 02:18 15868 Jul 27 23:22 15868 Aug 03 23:09 15868 Aug 07 13:15 15868 Aug 12 23:21 15868 Aug 12 23:21 15868 Aug 14 09:19 15868 Aug 18 12:09 15868 Aug 18 17:29	10°\$29'04 9°\$59'32 14°\$16'54 0°\$\Omega\$ 5°\$\Omega\$32'10 24°\$\Omega\$01'52 0°\$\mathred{m}\$40'07 12°\$\mathred{m}\$28'28 6°\$\mathred{m}\$32'26 4°\$\mathred{m}\$47'12 0°\$\mathred{m}\$11'27 30°\$\mathred{R}\$\Omega\$	2°01'39 1.45909 AU -0.7m 19°16'19 2°50'25 2°49'45
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superior conj minimum elong evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	15867 Jul 08 13:18 15867 Jul 09 07:53 15867 Jul 09 06:55 15867 Jul 24 20:15 15867 Jul 27 13:18 15867 Jul 31 06:27 15867 Aug 06 05:34 15867 Aug 14 14:03 15867 Aug 21 02:03 15867 Aug 24 06:25 15867 Aug 29 23:13 15867 Aug 30 01:29 15867 Aug 31 23:21 15867 Sep 04 19:23 15867 Sep 07 19:54 15867 Sep 11 04:41 15867 Sep 24 12:00 15867 Oct 01 17:48	0° Ω 1° Ω12'34 1° Ω08'45 25° Ω40'35 0° m 5° m 54'41 15° m 09'28 25° m 59'50 29° m 29'48 28° m 32'29 22° m 48'36 20° m 29'14 16° m 31'05 14° m 36'04 13° m 53'28 21° m 43'21 0° Ω	-2°14'02 2°14'46 -0.9m 18°34'14 2°22'05 2°21'20 0.65592 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	15868 Jun 17 17:49 15868 Jun 17 10:18 15868 Jun 20 04:03 15868 Jun 30 06:58 15868 Jul 03 20:57 15868 Jul 15 23:28 15868 Jul 20 01:43 15868 Jul 27 23:22 15868 Aug 03 23:09 15868 Aug 07 13:15 15868 Aug 12 23:21 15868 Aug 14 09:19 15868 Aug 18 12:09 15868 Aug 18 17:29 15868 Aug 24 12:13 15868 Aug 24 17:18	10°\$29'04 9°\$59'32 14°\$16'54 0°\$\Omega\$ 5°\$\Omega\$32'10 24°\$\Omega\$01'52 0°\$\mathbf{m}\$ 4°\$\mathbf{m}\$08'15 9°\$\mathbf{m}\$50'58 13°\$\mathbf{m}\$43'07 12°\$\mathbf{m}\$28'28 6°\$\mathbf{m}\$32'26 4°\$\mathbf{m}\$47'12 0°\$\mathbf{m}\$11'27 30°\$\mathbf{R}\Omega\$27°\$\Omega\$36'36 27°\$\Omega\$36'47	2°01'39 1.45909 AU -0.7m 19°16'19 2°50'25 2°49'45
superior conj minimum elong evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	15867 Jul 08 13:18 15867 Jul 09 07:53 15867 Jul 09 06:55 15867 Jul 24 20:15 15867 Jul 27 13:18 15867 Aug 13 1 06:27 15867 Aug 06 05:34 15867 Aug 14 14:03 15867 Aug 21 02:03 15867 Aug 24 06:25 15867 Aug 29 23:13 15867 Aug 30 01:29 15867 Aug 31 23:21 15867 Sep 04 19:23 15867 Sep 04 19:23 15867 Sep 11 04:41 15867 Sep 24 12:00 15867 Oct 01 17:48 15867 Oct 21 18:25	0° Ω 1° Ω12'34 1° Ω08'45 25° Ω40'35 0° m 5° m54'41 15° m09'28 25° m59'50 29° m29'48 28° m32'29 22° m48'36 20° m29'14 16° m31'05 14° m36'04 13° m53'28 21° m43'21 0° Ω 0° M.	-2°14'02 2°14'46 -0.9m 18°34'14 2°22'05 2°21'20 0.65592 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	15868 Jun 17 17:49 15868 Jun 17 10:18 15868 Jun 20 04:03 15868 Jun 30 06:58 15868 Jul 03 20:57 15868 Jul 15 23:28 15868 Jul 20 01:43 15868 Jul 23 02:18 15868 Jul 27 23:22 15868 Aug 03 23:09 15868 Aug 07 13:15 15868 Aug 12 23:21 15868 Aug 13 01:01 15868 Aug 14 09:19 15868 Aug 18 12:09 15868 Aug 18 17:29 15868 Aug 24 12:13 15868 Aug 24 17:18 15868 Aug 31 01:39	10°\$29'04 9°\$59'32 14°\$16'54 0°\$\lambda\$ 5°\$\lambda\$32'10 24°\$\lambda\$01'52 0°\$\lambda\$ 4°\$\lambda\$08'15 9°\$\lambda\$50'58 13°\$\lambda\$3'07 12°\$\lambda\$28'28 6°\$\lambda\$37'54 6°\$\lambda\$32'26 4°\$\lambda\$47'12 0°\$\lambda\$11'27 30°\$\lambda\$27°\$\lambda\$36'36 27°\$\lambda\$36'47 0°\$\lambda\$	2°01'39 1.45909 AU -0.7m 19°16'19 2°50'25 2°49'45 0.67170 AU
superior conj minimum elong 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	15867 Jul 08 13:18 15867 Jul 09 07:53 15867 Jul 09 06:55 15867 Jul 24 20:15 15867 Jul 27 13:18 15867 Jul 31 06:27 15867 Aug 06 05:34 15867 Aug 14 14:03 15867 Aug 21 02:03 15867 Aug 24 06:25 15867 Aug 29 23:13 15867 Aug 30 01:29 15867 Aug 31 23:21 15867 Sep 04 19:23 15867 Sep 04 19:23 15867 Sep 07 19:54 15867 Sep 11 04:41 15867 Sep 24 12:00 15867 Oct 01 17:48 15867 Oct 21 18:25 15867 Oct 30 04:20	0° Ω 1° Ω12'34 1° Ω08'45 25° Ω40'35 0° m 5° m 54'41 15° m 09'28 25° m 59'50 29° m 29'48 28° m 32'29 22° m 55'30 22° m 48'36 20° m 29'14 16° m 31'05 14° m 36'04 13° m 53'28 21° m 43'21 0° Ω 0° m 15° m 18'11	-2°14'02 2°14'46 -0.9m 18°34'14 2°22'05 2°21'20 0.65592 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	15868 Jun 17 17:49 15868 Jun 20 04:03 15868 Jun 30 06:58 15868 Jul 03 20:57 15868 Jul 15 23:28 15868 Jul 20 01:43 15868 Jul 23 02:18 15868 Jul 27 23:22 15868 Aug 03 23:09 15868 Aug 07 13:15 15868 Aug 12 23:21 15868 Aug 13 01:01 15868 Aug 14 09:19 15868 Aug 18 12:09 15868 Aug 24 12:13 15868 Aug 24 17:18 15868 Aug 31 01:39 15868 Sep 05 23:17	10°\$29'04 9°\$59'32 14°\$16'54 0°\$\mathbb{\alpha}\$ 5°\$\mathbb{\alpha}32'10 24°\$\mathbb{\alpha}01'52 0°\$\mathbb{\matha}\mathbb{\mathbb{\mathbb{\mathbb{\m	2°01'39 1.45909 AU -0.7m 19°16'19 2°50'25 2°49'45
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superior conj minimum elong 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 asc. node max. Earth dist.	15867 Jul 08 13:18 15867 Jul 09 07:53 15867 Jul 09 06:55 15867 Jul 24 20:15 15867 Jul 27 13:18 15867 Jul 31 06:27 15867 Aug 06 05:34 15867 Aug 14 14:03 15867 Aug 21 02:03 15867 Aug 24 06:25 15867 Aug 29 23:13 15867 Aug 30 01:29 15867 Aug 31 23:21 15867 Sep 04 19:23 15867 Sep 07 19:54 15867 Sep 11 04:41 15867 Sep 24 12:00 15867 Oct 21 18:25 15867 Nov 02 07:01 15867 Nov 03 07:49 15867 Nov 06 12:10 15867 Nov 07 18:28 15867 Nov 07 18:28	0° Ω 1° Ω12'34 1° Ω08'45 25° Ω40'35 0° m 5° m54'41 15° m09'28 25° m59'50 29° m29'48 28° m32'29 22° m48'36 20° m29'14 16° m31'05 14° m36'04 13° m53'28 21° m43'21 0° Ω 0° m 15° m.18'11 21° m.23'46 23° m.28'08 0° 🖈 2° ₹38'44 2° ₹27'14	-2°14'02 2°14'46 -0.9m 18°34'14 2°22'05 2°21'20 0.65592 AU 26°55'56	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. asc. node	15868 Jun 17 17:49 15868 Jun 20 04:03 15868 Jun 30 06:58 15868 Jul 03 20:57 15868 Jul 15 23:28 15868 Jul 20 01:43 15868 Jul 23 02:18 15868 Jul 27 23:22 15868 Aug 03 23:09 15868 Aug 07 13:15 15868 Aug 12 23:21 15868 Aug 14 09:19 15868 Aug 14 09:19 15868 Aug 18 17:29 15868 Aug 18 17:29 15868 Aug 24 12:13 15868 Aug 24 17:18 15868 Aug 31 01:39 15868 Sep 05 23:17 15868 Sep 15 23:17 15868 Oct 11 21:57 15868 Oct 13 02:55 15868 Oct 19 03:47	10°\$29'04 9°\$59'32 14°\$16'54 0°\$\Omega\$ 5°\$\Omega\$32'10 24°\$\Omega\$01'52 0°\$\mathbf{m}\$ 4°\$\mathbf{m}\$08'15 9°\$\mathbf{m}\$50'58 13°\$\mathbf{m}\$43'07 12°\$\mathbf{m}\$28'28 6°\$\mathbf{m}\$32'26 4°\$\mathbf{m}\$47'12 0°\$\mathbf{m}\$11'27 30°\$\mathbf{R}\Omega\$226 4°\$\mathbf{m}\$47'12 0°\$\mathbf{m}\$11'27 30°\$\mathbf{R}\Omega\$27°\$\Omega\$36'47 0°\$\mathbf{m}\$5°\$\mathbf{m}\$02'30 0°\$\mathbf{n}\$27°\$\mathbf{L}\$46'52 0°\$\mathbf{m}\$4'\mathbf{m}\$33'04 11°\$\mathbf{m}\$33'42	2°01'39 1.45909 AU -0.7m 19°16'19 2°50'25 2°49'45 0.67170 AU 25°45'02
superior conj minimum elong 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 asc. node max. Earth dist.	15867 Jul 08 13:18 15867 Jul 09 07:53 15867 Jul 09 06:55 15867 Jul 24 20:15 15867 Jul 27 13:18 15867 Jul 31 06:27 15867 Aug 06 05:34 15867 Aug 14 14:03 15867 Aug 21 02:03 15867 Aug 24 06:25 15867 Aug 29 23:13 15867 Aug 30 01:29 15867 Aug 31 23:21 15867 Sep 04 19:23 15867 Sep 07 19:54 15867 Sep 11 04:41 15867 Sep 24 12:00 15867 Oct 01 17:48 15867 Oct 01 17:48 15867 Oct 21 18:25 15867 Nov 02 07:01 15867 Nov 03 07:49 15867 Nov 06 12:10 15867 Nov 07 18:28 15867 Nov 07 16:17 15867 Nov 07 16:17	0° Ω 1° Ω12'34 1° Ω08'45 25° Ω40'35 0° m 5° m54'41 15° m09'28 25° m59'50 29° m29'48 28° m32'29 22° m48'36 20° m29'14 16° m31'05 14° m36'04 13° m53'28 21° m43'21 0° Ω 0° m 15° m.18'11 21° m.23'46 23° m.28'08 0° 🖈 2° ₹38'44 2° ₹27'14 18° ₹00'02	-2°14'02 2°14'46 -0.9m 18°34'14 2°22'05 2°21'20 0.65592 AU 26°55'56	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. asc. node superior conj	15868 Jun 17 17:49 15868 Jun 20 04:03 15868 Jun 30 06:58 15868 Jul 03 20:57 15868 Jul 15 23:28 15868 Jul 20 01:43 15868 Jul 23 02:18 15868 Jul 27 23:22 15868 Aug 03 23:09 15868 Aug 07 13:15 15868 Aug 12 23:21 15868 Aug 14 09:19 15868 Aug 18 12:09 15868 Aug 18 17:29 15868 Aug 18 17:29 15868 Aug 24 12:13 15868 Aug 24 17:18 15868 Aug 31 01:39 15868 Aug 31 01:39 15868 Sep 05 23:17 15868 Sep 15 04:43 15868 Oct 13 02:55 15868 Oct 15 13:06 15868 Oct 19 03:47	10°\$29'04 9°\$59'32 14°\$16'54 0°\$\alpha\$ 5°\$\alpha\$32'10 24°\$\alpha\$01'52 0°\$\mathbf{m}\$4'07 12°\$\mathbf{m}\$28'28 6°\$\mathbf{m}\$32'26 4°\$\mathbf{m}\$47'12 0°\$\mathbf{m}\$11'27 30°\$\mathbf{R}\$\alpha\$2'26 4°\$\mathbf{m}\$47'12 0°\$\mathbf{m}\$11'27 30°\$\mathbf{R}\$\alpha\$2'26 4°\$\mathbf{m}\$47'12 0°\$\mathbf{m}\$11'27 30°\$\mathbf{R}\$\alpha\$2 27°\$\alpha\$36'36 27°\$\alpha\$36'47 0°\$\mathbf{m}\$5"\$\mathbf{m}\$02'30 0°\$\mathbf{n}\$27°\$\mathbf{L}\$46'52 0°\$\mathbf{m}\$46'52 0°\$\mathbf{m}\$40'411°\$\mathbf{m}\$33'42	2°01'39 1.45909 AU -0.7m 19°16'19 2°50'25 2°49'45 0.67170 AU 25°45'02 1.35676 AU
superior conj minimum elong 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 asc. node max. Earth dist.	15867 Jul 08 13:18 15867 Jul 09 07:53 15867 Jul 09 06:55 15867 Jul 24 20:15 15867 Jul 27 13:18 15867 Jul 31 06:27 15867 Aug 06 05:34 15867 Aug 14 14:03 15867 Aug 21 02:03 15867 Aug 22 06:25 15867 Aug 29 23:13 15867 Aug 30 01:29 15867 Aug 31 23:21 15867 Sep 04 19:23 15867 Sep 07 19:54 15867 Sep 11 04:41 15867 Sep 24 12:00 15867 Oct 01 17:48 15867 Oct 21 18:25 15867 Oct 30 04:20 15867 Nov 02 07:01 15867 Nov 03 07:49 15867 Nov 07 18:28 15867 Nov 07 16:17 15867 Nov 14 23:28 15867 Nov 14 23:28 15867 Nov 20 20:42	0° Ω 1° Ω12'34 1° Ω08'45 25° Ω40'35 0° m 5° m54'41 15° m09'28 25° m59'50 29° m29'48 28° m32'29 22° m48'36 20° m29'14 16° m31'05 14° m36'04 13° m53'28 21° m43'21 0° Ω 0° m 15° m 18'11 21° m 23'46 23° m 28'08 0° 🛣 2° 🛣 38'44 2° 🛣 27'14 18° 🛣 00'02 0° 🛣	-2°14'02 2°14'46 -0.9m 18°34'14 2°22'05 2°21'20 0.65592 AU 26°55'56 1.33715 AU 0°48'37 0°48'55	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	15868 Jun 17 17:49 15868 Jun 20 04:03 15868 Jun 30 06:58 15868 Jul 03 20:57 15868 Jul 15 23:28 15868 Jul 20 01:43 15868 Jul 23 02:18 15868 Jul 27 23:22 15868 Aug 03 23:09 15868 Aug 07 13:15 15868 Aug 12 23:21 15868 Aug 14 09:19 15868 Aug 18 12:09 15868 Aug 18 17:29 15868 Aug 18 17:29 15868 Aug 24 12:13 15868 Aug 24 12:13 15868 Aug 24 17:18 15868 Aug 31 01:39 15868 Aug 31 01:39 15868 Cut 11 21:57 15868 Oct 11 21:57 15868 Oct 13 02:55 15868 Oct 19 03:47 15868 Oct 21 12:03 15868 Oct 21 12:03	10°\$29'04 9°\$59'32 14°\$16'54 0°\$\Omega\$ 5°\$\Omega\$32'10 24°\$\Omega\$01'52 0°\$\mathbf{m}\$ 4°\$\mathbf{m}\$08'15 9°\$\mathbf{m}\$50'58 13°\$\mathbf{m}\$43'07 12°\$\mathbf{m}\$28'28 6°\$\mathbf{m}\$32'26 4°\$\mathbf{m}\$47'12 0°\$\mathbf{m}\$11'27 30°\$\mathbf{n}\$02'30 27°\$\Omega\$36'47 0°\$\mathbf{m}\$ 5°\$\mathbf{m}\$02'30 0°\$\Omega\$ 27°\$\Omega\$46'52 0°\$\mathbf{m}\$ 4°\$\mathbf{m}\$33'04 11°\$\mathbf{m}\$33'42 16°\$\mathbf{m}\$14'52 16°\$\mathbf{m}\$08'41	2°01'39 1.45909 AU -0.7m 19°16'19 2°50'25 2°49'45 0.67170 AU 25°45'02 1.35676 AU
superior conj minimum elong 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 asc. node max. Earth dist.	15867 Jul 08 13:18 15867 Jul 09 07:53 15867 Jul 09 06:55 15867 Jul 24 20:15 15867 Jul 27 13:18 15867 Jul 31 06:27 15867 Aug 06 05:34 15867 Aug 14 14:03 15867 Aug 21 02:03 15867 Aug 22 06:25 15867 Aug 30 01:29 15867 Aug 31 23:21 15867 Sep 04 19:23 15867 Sep 07 19:54 15867 Sep 11 04:41 15867 Sep 24 12:00 15867 Oct 01 17:48 15867 Oct 01 17:48 15867 Oct 21 18:25 15867 Nov 02 07:01 15867 Nov 03 07:49 15867 Nov 07 16:17 15867 Nov 07 16:17 15867 Nov 14 23:28 15867 Nov 20 20:42 15867 Dec 04 17:20	0° N 1° N12'34 1° N08'45 25° N40'35 0° m 5° M54'41 15° M09'28 25° M59'50 29° M29'48 28° M32'29 22° M55'30 22° M48'36 20° M29'14 16° M31'05 14° M36'04 13° M53'28 21° M43'21 0° □ 0° M 15° M.18'11 21° M.23'46 23° M.28'08 0° √ 2° √38'44 2° √27'14 18° √00'02 0° ♂ 20° ♂557'01	-2°14'02 2°14'46 -0.9m 18°34'14 2°22'05 2°21'20 0.65592 AU 26°55'56 1.33715 AU 0°48'37 0°48'55	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	15868 Jun 17 17:49 15868 Jun 20 04:03 15868 Jun 30 06:58 15868 Jul 03 20:57 15868 Jul 15 23:28 15868 Jul 20 01:43 15868 Jul 20 01:43 15868 Jul 27 23:22 15868 Aug 03 23:09 15868 Aug 07 13:15 15868 Aug 12 23:21 15868 Aug 13 01:01 15868 Aug 14 09:19 15868 Aug 18 12:09 15868 Aug 18 17:29 15868 Aug 24 12:13 15868 Aug 24 17:18 15868 Aug 24 17:18 15868 Aug 31 01:39 15868 Aug 31 01:39 15868 Aug 31 01:39 15868 Cet 11 21:57 15868 Oct 11 21:57 15868 Oct 13 02:55 15868 Oct 15 13:06 15868 Oct 21 12:03 15868 Oct 21 10:49 15868 Oct 21 10:49 15868 Oct 22 04:30	10°\$29'04 9°\$59'32 14°\$16'54 0°\$\Omega\$ 5°\$\Omega\$32'10 24°\$\Omega\$01'52 0°\$\mathbf{m}\$ 4°\$\mathbf{m}\$08'15 9°\$\mathbf{m}\$50'58 13°\$\mathbf{m}\$43'07 12°\$\mathbf{m}\$28'28 6°\$\mathbf{m}\$32'26 4°\$\mathbf{m}\$47'12 0°\$\mathbf{m}\$11'27 30°\$\mathbf{n}\$02'30 27°\$\Omega\$36'47 0°\$\mathbf{m}\$ 5°\$\mathbf{m}\$02'30 0°\$\Omega\$ 27°\$\Omega\$46'52 0°\$\mathbf{m}\$ 4°\$\mathbf{m}\$33'04 11°\$\mathbf{m}\$33'42 16°\$\mathbf{m}\$14'52 16°\$\mathbf{m}\$08'41 0°\$\nall\$	2°01'39 1.45909 AU -0.7m 19°16'19 2°50'25 2°49'45 0.67170 AU 25°45'02 1.35676 AU

	15060 N 16 00 11	20710115	20017110		15060 0 4 05 02 52	00 m	
evening max el	15868 Nov 16 09:11	2°る10'15	20°16'19	1	15869 Oct 05 02:52	0°M	
desc. node	15868 Nov 20 14:26	5° る 33'42		asc. node	15869 Oct 06 00:29	1°M44'33	
retrograde	15868 Nov 27 03:19	7°る31'36		evening rise	15869 Oct 13 09:23	16° ™ 19'07	
evening set	15868 Nov 29 08:36	7° る 18'58			15869 Oct 20 12:57	0° ∡ 7	
inferior conj	15868 Dec 08 04:14	3° る 22'59		evening max el	15869 Oct 29 23:33		19°10'54
minimum elong	15868 Dec 07 18:25	3° る 37'31	4°58'28	desc. node	15869 Nov 07 11:38	18° ≯ 07'13	
min. Earth dist.	15868 Dec 09 18:59	2° る 25'38	0.54754 AU	retrograde	15869 Nov 08 03:11	18° ≯ 08'33	
	15868 Dec 14 10:18	30°Ŗ ⋌ ¹		evening set	15869 Nov 10 00:27	17° ₹ 57'39	
morning rise	15868 Dec 16 03:37	29° ∡ ′20′35		inferior conj	15869 Nov 18 11:46	13° ≯ 45'42	-3°26'52
direct	15868 Dec 20 21:20	28° ∡ ³32′06		minimum elong	15869 Nov 18 03:20	13° ₹ 59'55	3°23'05
	15868 Dec 27 03:27	0°₹		min. Earth dist.	15869 Nov 21 04:57	11° ₹ 56'04	0.55983 AU
morning max el	15869 Jan 03 10:35	5° る 12'32	23°59'54	morning rise	15869 Nov 26 03:44	9° ҂ 11′28	
asc. node	15869 Jan 15 03:21	20° る 15'33		direct	15869 Dec 01 18:23	7° ∡ 758'51	
	15869 Jan 20 17:00	0° ≈		morning max el	15869 Dec 15 20:19	15° ₹ 08'25	25°44'38
morning set	15869 Jan 27 21:40	14° ≈ 36′23			15869 Dec 27 17:02	0°る	
				asc. node	15870 Jan 02 00:33	8° る 45'41	
superior conj	15869 Feb 03 17:10	29° ≈ 27'30	1°31'02	morning set	15870 Jan 12 09:09	29° る 14'01	
minimum elong	15869 Feb 03 18:43	29° ≈ 36′00	1°31'23		15870 Jan 12 17:40	0° ≈	
	15869 Feb 03 23:08	0° ∀					
max. Earth dist.	15869 Feb 06 07:46	5° ₩ 05'28	1.32636 AU	superior conj	15870 Jan 19 02:42	14° ≈ 04'54	1°37'15
evening rise	15869 Feb 11 07:57	15° ¥ 29'51		minimum elong	15870 Jan 19 03:15	14°≈08'00	1°37'52
desc. node	15869 Feb 16 14:39	25°) 43′13		max. Earth dist.	15870 Jan 20 11:19	17° ≈ 05'33	1.31588 AU
	15869 Feb 18 22:58	$0^{\circ}\mathbf{\Upsilon}$		evening rise	15870 Jan 26 05:42	29° ≈ 30′29	
	15869 Mar 10 20:52	0°B		-	15870 Jan 26 11:23	0° ∀	
evening max el	15869 Mar 17 06:47	7° 8 00'48	27°30'22	desc. node	15870 Feb 03 11:20	15°) 35′28	
retrograde	15869 Mar 31 00:50	14° 8 32'02			15870 Feb 12 01:31	$0^{\circ}\mathbf{Y}$	
evening set	15869 Apr 06 19:15	12° 8 05'47		evening max el	15870 Feb 27 16:35	19° Ƴ 46'30	27°33'19
min. Earth dist.	15869 Apr 10 14:21	8° 8 44'48	0.64001 AU	retrograde	15870 Mar 13 15:51	27° Ƴ 12'58	
inferior conj	15869 Apr 13 06:49	5° 8 56'29	0°05'02	evening set	15870 Mar 20 11:32	24° Ƴ 59'55	
minimum elong	15869 Apr 13 06:40	5° 8 56'51	0°04'34	min. Earth dist.	15870 Mar 24 05:51	22° Y 03'29	0.61861 AU
transit middle	15869 Apr 13 06:40	5° 8 56'51	0°04'34	inferior conj	15870 Mar 27 07:35	19° Ƴ 12'39	
transit begin	15869 Apr 13 03:41	6° 8 04'42		minimum elong	15870 Mar 27 10:00		1°08'30
transit end	15869 Apr 13 09:40	5° 8 49'00		asc. node	15870 Mar 30 21:47	16° Ƴ 07'50	
asc. node	15869 Apr 13 00:26	6° 8 13'15		morning rise	15870 Apr 03 11:37	14° Ƴ 10'39	
morning rise	15869 Apr 19 20:23	0° 8 37'03		direct	15870 Apr 05 16:46	13° Ƴ 48'52	
direct	15869 Apr 22 08:58	0° 8 05'02		morning max el	15870 Apr 12 11:03	17° Ƴ 13'19	17°48'23
morning max el	15869 Apr 28 17:42	3° 8 20'20	17°48'33		15870 Apr 21 14:39	0°8	
morning set	15869 May 15 13:59	28° 8 39'00		morning set	15870 Apr 28 06:17	11° 8 36'43	
desc. node	15869 May 15 16:07	28° 8 48'03		desc. node	15870 May 02 12:56	19° 8 11'00	
	15869 May 16 09:09	0°II			15870 May 08 18:58	0°Щ	
	J				,		
superior conj	15869 May 28 17:26	20° Ⅱ 26'43	-1°32'28	superior conj	15870 May 09 15:39	1° Ⅱ 27'36	-0°55'29
minimum elong	15869 May 28 09:08	19° Ⅲ 53'12	1°32'19	minimum elong	15870 May 09 10:32	1° Ⅱ 05'57	0°55'25
max. Earth dist.	15869 Jun 02 23:45	28° Ⅱ 50′53	1.45175 AU	max. Earth dist.	15870 May 16 15:52	13° Ⅲ 02'21	1.43774 AU
	15869 Jun 03 17:16	0°99		evening rise	15870 May 23 22:49	24° Ⅲ 35′06	
evening rise	15869 Jun 13 08:16	14° © 55'53		•	15870 May 27 11:14	0 \circ \mathfrak{s}	
C	15869 Jun 23 08:06	$0^{\circ}\Omega$			15870 Jun 17 10:19	$0^{\circ}\Omega$	
asc. node	15869 Jul 09 23:07	22° Ω 32′02		evening max el	15870 Jun 24 00:28	7° Ω 37'44	21°24'05
evening max el	15869 Jul 11 02:56		20°13'49	asc. node	15870 Jun 26 20:00	10° Ω 09'18	
retrograde	15869 Jul 18 22:08	28° Ω 10′25		retrograde	15870 Jul 02 20:59	12° Ω 46′18	
evening set	15869 Jul 22 22:33	26° Ω 38'00		evening set	15870 Jul 07 08:18	10° Ω 56'40	
inferior conj	15869 Jul 28 04:59	20° Ω 35'11	3°05'22	inferior conj	15870 Jul 12 13:49		3°08'39
minimum elong	15869 Jul 28 05:46	20° Ω 32'30	3°04'45	minimum elong	15870 Jul 12 13:38		3°07'57
min. Earth dist.	15869 Jul 29 01:04	19° Ω 26'40	0.68299 AU	min. Earth dist.	15870 Jul 12 20:30	4° Ω 19'50	0.68954 AU
morning rise	15869 Aug 02 12:39	14° Ω 11'07			15870 Jul 16 04:41	30° №	
direct	15869 Aug 08 01:30	11° Ω 46′06		morning rise	15870 Jul 17 18:44	28°524'26	
desc. node	15869 Aug 11 14:41	12° Ω 35'37		direct	15870 Jul 22 19:30	26° © 14'19	
morning max el	15869 Aug 19 10:17		24°20'15	desc. node	15870 Jul 29 12:02	29° © 08'53	
5	15869 Aug 29 01:56	0° m)			15870 Jul 30 12:56	0° Ω	
	15869 Sep 18 06:30	0∘ <u>v</u>		morning max el	15870 Aug 01 22:04		22°51'00
morning set	15869 Sep 23 21:29	9° ჲ 28'01		Č	15870 Aug 23 01:00	0° m/	
max. Earth dist.	15869 Sep 27 12:32	15° ≏ 51'25	1.37978 AU	morning set	15870 Sep 04 22:53	20° m 12'36	
	<u>.</u>		-	max. Earth dist.	15870 Sep 09 11:56	27° m/48'28	1.40378 AU
superior conj	15869 Oct 04 18:07	29° ≏ 17'56	-0°11'22		15870 Sep 10 18:40	0∘ ರ	-
minimum elong	15869 Oct 04 18:53	29° ჲ 21'33			1		
behind sun begin	15869 Oct 04 13:47	28° ♀ 57'05		superior conj	15870 Sep 17 08:41	11° ≏ 39'00	-0°47'26
behind sun end	15869 Oct 04 23:58	29° ≏ 46'02		minimum elong	15870 Sep 17 12:22	11° ≏ 55'44	
				3	*		

aca mada	15970 Can 22 21:10	210052102		aga mada	15071 Can 00 17:47	11005455	
asc. node	15870 Sep 22 21:10	21° £ 53'03		asc. node	15871 Sep 09 17:47	11° £ 54'55	
evening rise	15870 Sep 27 03:39	29° £ 59'28		evening rise	15871 Sep 10 09:43	13° ♀ 07'01	
	15870 Sep 27 03:45	0°M,	10007140		15871 Sep 20 01:58	0°M	10005122
evening max el	15870 Oct 13 02:11	25°M43'24	18°27'49	evening max el	15871 Sep 26 12:44	8°M32'25	18°05'32
retrograde	15870 Oct 20 21:48	29°M41'22		retrograde	15871 Oct 03 10:34	12°M05'08	
evening set	15870 Oct 22 21:16	29°M26'53		evening set	15871 Oct 05 16:42	11°M42'46	
desc. node	15870 Oct 25 08:54	28°M30'59		desc. node	15871 Oct 12 06:14	7°M16'56	
inferior conj	15870 Oct 30 16:32	24°M54'19	-1°42'41	inferior conj	15871 Oct 12 18:26	6°M49'12	-0°09'38
minimum elong	15870 Oct 30 12:30	25°M02'15	1°40'25	minimum elong	15871 Oct 12 18:07	6° M 49'55	0°09'06
min. Earth dist.	15870 Nov 02 21:49	22°M23'02	0.57866 AU	transit middle	15871 Oct 12 18:07	6° ™ 49'55	0°09'06
morning rise	15870 Nov 07 00:17	19°M43'00		transit begin	15871 Oct 12 15:21	6°M56'13	
direct	15870 Nov 13 06:11	18° M 03'16		transit end	15871 Oct 12 20:52	6°M43'36	
morning max el	15870 Nov 27 12:38	25°M35'41	27°05'41	min. Earth dist.	15871 Oct 15 23:17	3°M54'42	0.60096 AU
	15870 Dec 01 15:42	0° ∡ ¹		morning rise	15871 Oct 19 16:18	1° ML 05'41	
asc. node	15870 Dec 19 21:41	27° ₹ 50'51			15871 Oct 21 17:46	30° Ŗ Ω	
	15870 Dec 21 00:56	0°రె		direct	15871 Oct 26 06:47	29° ≏ 00'49	
morning set	15870 Dec 27 18:22	13° る 41'14			15871 Oct 31 00:22	0° M .	
Ü				morning max el	15871 Nov 09 12:55	6° M 49'27	27°50'56
superior conj	15871 Jan 03 14:00	28° 云 44'12	1°37'25		15871 Nov 27 01:02	0° ∡ 7	
minimum elong	15871 Jan 03 13:30	28° ප් 41'24	1°38'09	asc. node	15871 Dec 06 18:42	17° ×7 21'21	
max. Earth dist.	15871 Jan 03 18:27	29° ろ 09'05	1.31066 AU	morning set	15871 Dec 11 23:27	27° × 53'23	
max. Earth dist.	15871 Jan 04 03:32	0° ≈	1.51000710	morning set	15871 Dec 12 23:21	0°중	
ovening rise	15871 Jan 10 09:42	0 ∞ 13°≈45'19		max. Earth dist.	15871 Dec 12 23.21 15871 Dec 18 01:45	· <u> </u>	1.31087 AU
evening rise		13 ≈ 43 19 0° H		max. Earth dist.	138/1 Dec 18 01.43	11 00913	1.3108/ AU
1 1	15871 Jan 18 12:45				15071 D 10 01 11	120=20001	1021124
desc. node	15871 Jan 21 08:03	5°) €02'59		superior conj	15871 Dec 19 01:11	13°る20'01	1°31'34
	15871 Feb 08 02:03	0° Υ		minimum elong	15871 Dec 18 23:44	13°る11'55	1°32'17
evening max el	15871 Feb 09 20:56	1° Y 46'34	27°01'56	evening rise	15871 Dec 25 17:50	28°る09'20	
retrograde	15871 Feb 23 21:47	9° Ƴ 03'01			15871 Dec 26 14:26	0° ≈	
evening set	15871 Mar 02 12:20	7° Ƴ 10'47		desc. node	15872 Jan 08 04:51	23° ≈ 56'41	
min. Earth dist.	15871 Mar 06 11:13	4° Ƴ 29'37	0.59607 AU		15872 Jan 12 02:34	0° ∀	
inferior conj	15871 Mar 09 16:31	1° Ƴ 53'09		evening max el	15872 Jan 22 17:39	12° 升 54'58	25°56'16
minimum elong	15871 Mar 09 22:23	1° Y 41'12	2°32'57	retrograde	15872 Feb 05 16:25	19° ¥ 58′09	
	15871 Mar 12 02:23	30°Ŗ ℋ		evening set	15872 Feb 11 18:05	18°) 32′07	
morning rise	15871 Mar 17 11:59	27° ₩ 11′03		min. Earth dist.	15872 Feb 16 06:45	15° ¥ 53'41	0.57467 AU
asc. node	15871 Mar 17 19:10	27°) €06'53		inferior conj	15872 Feb 19 06:07	13°) 48′42	-4°05'14
direct	15871 Mar 19 12:05	26°) 55′47		minimum elong	15872 Feb 19 15:02	13°) 33′02	4°02'06
	15871 Mar 26 07:28	0° Υ		morning rise	15872 Feb 27 15:03	9° 升 27'55	
morning max el	15871 Mar 27 00:53	0° Ƴ 40'46	18°06'58	direct	15872 Feb 29 14:44	9° ₩ 15'24	
morning set	15871 Apr 11 15:07	25° Ƴ 19′21		asc. node	15872 Mar 03 16:34	9°) 47′03	
Z .	15871 Apr 14 03:21	0°8		morning max el	15872 Mar 09 07:14	13°) €31'30	18°46'03
desc. node	15871 Apr 19 09:39	9° 8 40'35		C	15872 Mar 20 11:21	$0^{\circ}\Upsilon$	
	r			morning set	15872 Mar 25 11:31	9° Ƴ 32'32	
superior conj	15871 Apr 21 12:51	13° 8 30'31	-0°17'32	morning set	100/2 11111 20 11131	, , , , , ,	
minimum elong	15871 Apr 21 11:23	13° 8 24'01		superior conj	15872 Apr 03 05:31	26° Y 25'51	0°16'59
max. Earth dist.	15871 Apr 29 03:11		1.41864 AU	minimum elong	15872 Apr 03 06:37	26° Υ 31'02	0°16'31
max. Earth dist.	15871 May 01 03:45	0°II	1.41004710	desc. node	15872 Apr 05 06:18	0° 8 13'15	0 1031
evening rise	15871 May 04 05:41	5° Ⅱ 00'58		desc. node	15872 Apr 05 00:18	0°8	
evening rise	15871 May 04 05:41 15871 May 20 16:58	0.2 2 H00.29		max. Earth dist.	15872 Apr 03 03:20 15872 Apr 10 10:50	9° 8 34'11	1.39650 AU
avanina may al	15871 Jun 06 17:15	21° 9 31'35	22042155			16° 8 22'57	1.39030 AU
evening max el			22 42 33	evening rise	15872 Apr 14 09:46		
asc. node	15871 Jun 13 16:57	26°544'30			15872 Apr 22 19:13	0°II	
retrograde	15871 Jun 16 18:02	27°524'38			15872 May 14 07:52	0.æ	24004124
evening set	15871 Jun 21 16:48	25°519'19	2001114	evening max el	15872 May 19 07:30	5°526'55	24°04'24
inferior conj	15871 Jun 26 23:46	18° © 57'06	3°01'14	retrograde	15872 May 30 11:58	12°500'03	
minimum elong	15871 Jun 26 22:41	19° © 00'51	3°00'19	asc. node	15872 May 30 14:00	12° © 00'01	
min. Earth dist.	15871 Jun 26 17:25	19° © 19'13	0.69125 AU	evening set	15872 Jun 04 22:26	9° 5 41'30	
morning rise	15871 Jul 02 04:27	12°5945'42		min. Earth dist.	15872 Jun 09 13:38	4° © 18'49	0.68812 AU
direct	15871 Jul 06 17:00	10° © 53'49		inferior conj	15872 Jun 10 08:58	3° © 13'13	2°43'22
morning max el	15871 Jul 15 13:12	16° © 01'22	21°25'35	minimum elong	15872 Jun 10 07:10	3°519'17	2°42'12
desc. node	15871 Jul 16 09:18	16° © 52'51			15872 Jun 12 20:18	30°RⅡ	
	15871 Jul 26 21:21	0 $^{\circ}\Omega$		morning rise	15872 Jun 15 15:58	27° Ⅱ 10′36	
morning set	15871 Aug 16 00:16	29° Ω 55'50		direct	15872 Jun 19 16:36	25° Ⅱ 38′28	
	15871 Aug 16 01:20	0° m			15872 Jun 27 10:37	0ංම	
max. Earth dist.	15871 Aug 22 16:29	10° m 38'32	1.42603 AU	morning max el	15872 Jun 27 10:33	29° Ⅱ 59'49	20°10'26
				desc. node	15872 Jul 02 06:29	5°529'16	
superior conj	15871 Aug 30 03:16	23° m 07'41	-1°23'38		15872 Jul 19 11:05	$0^{\circ}\Omega$	
minimum elong	15871 Aug 30 10:00	23° m/36'40		morning set	15872 Jul 25 07:30	8° Ω 54'46	
Z .	15871 Sep 03 02:04	0∘ ⊽		max. Earth dist.	15872 Aug 04 04:10	24° Ω 19'51	1.44393 AU

	15872 Aug 07 16:59	0° m		max. Earth dist.	15873 Jul 17 21:18	8° Ω 37'08	1.45552 AU
superior conj	15872 Aug 09 22:37	3°m/37'51	-1°54'21	superior conj	15873 Jul 20 20:00	13° Ω 14'57	-2°12'12
minimum elong	15872 Aug 10 06:16	4° m) 09'10		minimum elong	15873 Jul 20 23:30	13° Ω 28'43	
evening rise	15872 Aug 22 22:45	25° m) 29'57		· ·	15873 Jul 31 07:29	0° m/y	
	15872 Aug 25 13:35	0∘ ⊽		evening rise	15873 Aug 04 13:37	6° Mp 55′57	
asc. node	15872 Aug 26 14:24	1° ≏ 46′21		asc. node	15873 Aug 13 11:05	21°M 22'46	
evening max el	15872 Sep 09 03:03	21° ≏ 49'27	18°02'28		15873 Aug 19 05:08	0∘ ⊽	
retrograde	15872 Sep 15 13:39	25° ≏ 10'44		evening max el	15873 Aug 23 17:37	5° £ 25'43	18°17'35
evening set	15872 Sep 18 03:56	24° £ 36'55		retrograde	15873 Aug 30 02:39	8° ≏ 49'04	
inferior conj	15872 Sep 24 14:10	19° ≏ 24'24	1°04'21	evening set	15873 Sep 02 01:39	8° Ω 00'59	
minimum elong	15872 Sep 24 15:54	19° Ω 19'54	1°03'55	inferior conj	15873 Sep 07 23:48	2° Ω 32'09	1°58'45
min. Earth dist.	15872 Sep 27 10:31	16° Ω 27'17	0.62383 AU	minimum elong	15873 Sep 08 02:08	2° £ 25'21	1°58'01
desc. node	15872 Sep 28 03:36	15° Ω 45'29		i Batis	15873 Sep 10 04:22	30°RM)	0.64501.441
morning rise	15872 Oct 01 01:27	13° Ω 17'37		min. Earth dist.	15873 Sep 10 07:45	29° m 50'28	0.64501 AU
direct morning max el	15872 Oct 07 17:52 15872 Oct 21 19:38	10° £ 53'42 18° £ 51'16	27°56'53	morning rise desc. node	15873 Sep 14 01:02 15873 Sep 15 00:59	26° m 11'36 25° m 27'26	
morning max er	15872 Oct 21 19:38 15872 Oct 31 06:32	0°M	27 30 33	direct	15873 Sep 15 00:59 15873 Sep 20 13:59	23° m) 36'37	
	15872 Nov 18 22:27	0° ⊼ ¹		direct	15873 Oct 02 15:30	0° ⊡	
asc. node	15872 Nov 22 15:37	7° ∡ 109'38		morning max el	15873 Oct 02 15:30	0 — 1° Ω 33'27	27°26'51
morning set	15872 Nov 24 22:16	11° × 744'55		morning max or	15873 Oct 25 10:41	0°M	27 2031
max. Earth dist.	15872 Nov 30 05:20	22° ₹ 56′29	1.31668 AU	morning set	15873 Nov 08 12:20	25°M10'41	
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		asc. node	15873 Nov 09 12:27	27°M10'15	
superior conj	15872 Dec 02 10:20	27° ∡ ¹46'32	1°19'42		15873 Nov 10 22:10	0° ∡ ¹	
minimum elong	15872 Dec 02 08:12	27° ∡ ³34'48	1°20'15	max. Earth dist.	15873 Nov 13 01:37	4° ∡ °24'34	1.32811 AU
	15872 Dec 03 10:31	ರ°0					
evening rise	15872 Dec 09 04:11	12° る 37'11		superior conj	15873 Nov 16 15:26	11° ₰ 758'44	1°01'44
	15872 Dec 17 18:54	0° ≈		minimum elong	15873 Nov 16 13:05	11° х 46′06	1°02'06
desc. node	15872 Dec 25 01:43	12° ≈ 03′25		evening rise	15873 Nov 23 14:59	27° ₹ 04'46	
evening max el	15873 Jan 03 06:12	23° ≈ 14'45	24°23'46		15873 Nov 24 23:56	0°ප	
	15873 Jan 15 21:04	0° ∀		desc. node	15873 Dec 11 22:41	29° る 06'33	
retrograde	15873 Jan 16 21:42	0°) €02'24			15873 Dec 12 16:34	0° ≈	
	15873 Jan 17 22:24	30°R≈		evening max el	15873 Dec 15 15:43	3°≈10'41	22°40'19
evening set	15873 Jan 22 01:24	29°≈04'15	0.55712.411	retrograde	15873 Dec 28 14:36	9°≈35'25	
min. Earth dist.	15873 Jan 27 17:57	26°≈12'04 24°≈51'36	0.55713 AU	evening set	15874 Jan 01 11:59	9°≈02'21 5°≈36'34	0.54620.411
inferior conj minimum elong	15873 Jan 29 22:27 15873 Jan 30 06:51			min. Earth dist. inferior conj	15874 Jan 09 00:21 15874 Jan 09 20:44	5°≈36'34 5°≈07'46	0.54630 AU
morning rise	15873 Feb 07 14:17	24 ≈36 44 20°≈51'04	3 20 13	minimum elong	15874 Jan 09 20:44 15874 Jan 09 22:11	5°≈05'43	6°00'09
direct	15873 Feb 09 21:49	20°≈36'56		morning rise	15874 Jan 18 09:36	1°≈19'38	0 00 0)
asc. node	15873 Feb 18 13:56	24°≈11'50		direct	15874 Jan 21 11:32	0°≈57'57	
morning max el	15873 Feb 20 01:50	25° ≈ 32'50	19°47'45	morning max el	15874 Feb 02 05:46	6° ≈ 38'07	21°12'37
Ü	15873 Feb 23 22:57	0°) €		asc. node	15874 Feb 05 11:15	10° ≈ 08'17	
morning set	15873 Mar 09 15:34	24°) €03'54			15874 Feb 17 17:09	0° ∀	
	15873 Mar 12 13:43	0° Y		morning set	15874 Feb 22 00:26	8°) 45′08	
superior conj	15873 Mar 17 13:10	10° Y ′00′33	0°45'56	superior conj	15874 Mar 01 07:53	24°) €04'03	1°08'31
minimum elong	15873 Mar 17 15:30	10° Y 12′07	0°45'30	minimum elong	15874 Mar 01 10:25	24° ∺ 17'07	1°08'19
desc. node	15873 Mar 23 02:55	20° ℃ 44'41			15874 Mar 04 05:38	0°Υ	
max. Earth dist.	15873 Mar 23 17:16	21° Υ 51'34	1.37363 AU	max. Earth dist.	15874 Mar 06 02:49	3° Y 45′04	1.35238 AU
evening rise	15873 Mar 27 09:59	28° Ƴ 34'59		desc. node	15874 Mar 09 23:33	11° Υ 11'24	
	15873 Mar 28 05:11	0° ∀		evening rise	15874 Mar 10 03:15	11° Y 28'48	
avanina may al	15873 Apr 16 03:36	0° П 19° П 21'07	25°21'50		15874 Mar 20 17:17	0°H 8°0	
evening max el retrograde	15873 May 01 20:56 15873 May 14 01:47	26° I I25'29	23 21 30	evening max el	15874 Apr 11 09:31 15874 Apr 14 10:31	3°∏09'26	26°27'48
asc. node	15873 May 17 11:08	26 H 23 29 25° H 38'04		retrograde	15874 Apr 27 10:37	10° Д 33'36	20 27 46
evening set	15873 May 19 23:32	23° II 57'24		evening set	15874 May 03 18:21	8° П 01'03	
min. Earth dist.	15873 May 24 07:04	19° ∏ 11'36	0.68015 AU	asc. node	15874 May 04 08:21	7° П 31'16	
inferior conj	15873 May 25 15:26	17° Ⅲ 26'43	2°14'43	min. Earth dist.	15874 May 07 19:43	3° П 50'34	0.66762 AU
minimum elong	15873 May 25 13:16	17° Ⅲ 33'44	2°13'23	inferior conj	15874 May 09 17:05	1° Ⅱ 33'03	1°34'30
morning rise	15873 May 31 03:25	11° ∏ 34'10		minimum elong	15874 May 09 15:05	1° ∏ 39'11	1°33'11
direct	15873 Jun 03 16:44	10° Ⅱ 21'38		-	15874 May 11 00:16	30°₽ ႘	
morning max el	15873 Jun 10 15:16	14° Ⅱ 08'12	19°09'30	morning rise	15874 May 15 12:50	25° 8 51'51	
desc. node	15873 Jun 19 03:34	24° Ⅱ 43'55		direct	15874 May 18 15:39	24° 8 57'19	
	15873 Jun 22 18:33	0		morning max el	15874 May 25 02:37	28° 8 22'12	18°24'39
greatest brilliancy	15873 Jun 23 11:52	1° 5 04'19	-0.7m		15874 May 26 15:59	$\Pi^{\circ 0}$	
morning set	15873 Jul 04 13:10	17° 9 54'57		desc. node	15874 Jun 06 00:34	14° Ⅱ 26'36	
	15873 Jul 12 08:41	0 ° Ω		morning set	15874 Jun 14 12:31	27° Ⅱ 47'59	

	15874 Jun 15 21:56	0°ಅ		superior conj	15875 Jun 09 19:33	1° © 57'17	-1°50'37
				minimum elong	15875 Jun 09 10:58	1° 5 23'17	1°50'42
superior conj	15874 Jun 30 05:23	22°\$26'40	-2°11'02	max. Earth dist.	15875 Jun 13 13:06	7° © 49'56	1.45676 AU
minimum elong	15874 Jun 30 01:06	22°510'00	2°11'40	evening rise	15875 Jun 25 20:31	26°\$53'20	
max. Earth dist.	15874 Jun 30 17:05	23° © 12'15	1.45988 AU		15875 Jun 27 21:17	$0^{\circ}\Omega$	
	15874 Jul 05 01:44	$0^{\circ}\Omega$		greatest brilliancy	15875 Jul 09 19:01	17° Ω 54'44	-0.6m
evening rise	15874 Jul 16 03:21	17° Ω 18'34		asc. node	15875 Jul 18 04:36	29° Ω 23′15	
	15874 Jul 24 05:59	0° m			15875 Jul 18 16:48	0° ™	
greatest brilliancy	15874 Jul 25 08:49	1° m 43'44	-0.8m	evening max el	15875 Jul 21 12:30	3° m 05'58	19°39'05
asc. node	15874 Jul 31 07:48	10° m 37'33		retrograde	15875 Jul 28 19:50	7° Mp 11'28	
evening max el	15874 Aug 07 05:28	19° m 13'03	18°50'09	evening set	15875 Aug 01 14:10	5° ™ 49'28	
retrograde	15874 Aug 13 21:40	22° m 51'22		inferior conj	15875 Aug 06 22:22	29° Ω 53'43	2°58'15
evening set	15874 Aug 17 06:01	21°Mp46'57		minimum elong	15875 Aug 06 23:41	29° Ω 49'20	2°57'37
inferior conj	15874 Aug 22 19:34	16°M)03'56	2°35'52		15875 Aug 06 20:29	30°R Ω	
minimum elong	15874 Aug 22 21:37	15° m 57'26	2°35'09	min. Earth dist.	15875 Aug 08 02:28	28° Ω 20′03	0.67704 AU
min. Earth dist.	15874 Aug 24 13:41	13° m 51'34	0.66305 AU	morning rise	15875 Aug 12 08:41	23° Ω 27'43	
morning rise	15874 Aug 28 12:18	9° m 37'41		direct	15875 Aug 18 04:14	20° Ω 55'58	
desc. node	15874 Sep 01 22:24	7° m) 12'52		desc. node	15875 Aug 19 19:47	21°Ω06'39	
direct	15874 Sep 03 17:52	7° Mp 00'16	2 (020100	morning max el	15875 Aug 30 04:46	28° Ω 07'52	25°10'03
morning max el	15874 Sep 16 17:45	14° m/42'43	26°28'09		15875 Aug 31 23:29	0ം ⊽ 0ംൂൂ	
	15874 Sep 29 06:25	0∘ ফ		. ,	15875 Sep 22 23:16		
marning gat	15874 Oct 18 04:59	0°ጤ 8°ጤ02'46		morning set	15875 Oct 05 00:57	20° £ 12'45	1 26624 AII
morning set max. Earth dist.	15874 Oct 22 14:30 15874 Oct 26 12:02	15°M32'58	1.34493 AU	max. Earth dist.	15875 Oct 08 13:41 15875 Oct 10 08:49	26° £ 38′10 0° I L	1.36624 AU
asc. node	15874 Oct 27 09:15	17°M17'58	1.34493 AU	asc. node	15875 Oct 10 08:49	7°M29'03	
asc. Houc	13874 Oct 27 09.13	1/ 1161/30		asc. node	13873 Oct 14 00.00	/ 1162903	
superior conj	15874 Oct 31 14:01	25°M49'56	0°37'43	superior conj	15875 Oct 15 03:10	9°M13'23	0°08'00
minimum elong	15874 Oct 31 12:08	25°M40'08		minimum elong	15875 Oct 15 02:39	9°M10'49	0°08'20
minimum crong	15874 Nov 02 13:59	0° ₹	0 37 50	behind sun begin	15875 Oct 14 21:06	8°M43'23	0 00 20
evening rise	15874 Nov 08 00:16	11° ×7 26'37		behind sun end	15875 Oct 15 08:12	9°M38'19	
	15874 Nov 17 13:19	0°궁		evening rise	15875 Oct 23 05:55	25° ™ 38'00	
evening max el	15874 Nov 27 08:07	13° る 21'12	21°03'49	<i>3</i>	15875 Oct 25 09:52	0° ∡ ¹	
desc. node	15874 Nov 28 19:44	14° る 43'47		evening max el	15875 Nov 09 14:18	24° ∡ 15'16	19°45'46
retrograde	15874 Dec 09 00:40	19° ろ 08'36		desc. node	15875 Nov 15 16:53	28° ∡ ³30'49	
evening set	15874 Dec 11 16:47	18° ප 51'46		retrograde	15875 Nov 19 15:35	29° ∡ 16′21	
inferior conj	15874 Dec 20 11:29	15° る 00'29	-5°40'00	evening set	15875 Nov 21 15:50	29° ∡ ¹05′15	
minimum elong	15874 Dec 20 04:05	15° る 10'58	5°38'05	inferior conj	15875 Nov 30 09:23	25° х 03′53	-4°24'27
min. Earth dist.	15874 Dec 21 05:50	14° る 34'25	0.54435 AU	minimum elong	15875 Nov 29 23:26	25° ∡ 19'19	4°20'40
morning rise	15874 Dec 28 15:34	11° る 08'28		min. Earth dist.	15875 Dec 02 13:18	23° х 43′18	0.55184 AU
direct	15875 Jan 01 18:49	10° る 31'36		morning rise	15875 Dec 08 05:32	20° ∡ ¹49'21	
morning max el	15875 Jan 14 20:15	16° る 53'09	22°56'21	direct	15875 Dec 13 09:05	19° ∡ ′50'48	
asc. node	15875 Jan 23 08:32	27° る 17'36		morning max el	15875 Dec 27 04:43	26° ∡ ⁴44'45	24°46'06
	15875 Jan 25 02:49	0° ≈			15875 Dec 30 07:48	0° ろ	
morning set	15875 Feb 06 11:51	23° ≈ 29′28		asc. node	15876 Jan 10 05:46	15° る 22'46	
	15875 Feb 09 12:29	0° ∀			15876 Jan 18 02:07	0° ≈	
	15055 7 1 10 10 01	001/26140	100 400	morning set	15876 Jan 21 23:49	8°≈11'08	
superior conj	15875 Feb 13 10:24	8° ¥ 26'48			15076 1 20 10 00	220 00157	102.42.4
minimum elong max. Earth dist.	15875 Feb 13 12:26 15875 Feb 16 19:15	8°) 37'44 15°) 34'14	1°24'47 1.33456 AU	superior conj	15876 Jan 28 18:00 15876 Jan 28 19:09	23°≈00'57 23°≈07'18	1°34'24 1°34'53
		24° ¥ 55′21	1.33430 AU	minimum elong	15876 Jan 28 19:09 15876 Jan 30 19:19		
evening rise	15875 Feb 21 10:04 15875 Feb 24 01:14	24° π 35'21 0° Υ		max. Earth dist.	15876 Jan 30 19:19 15876 Jan 31 22:59	27°≈30'29 0° ¥	1.32129 AU
desc. node	15875 Feb 24 01:14 15875 Feb 24 20:12	1° Υ 29'16		evening rise	15876 Feb 05 03:12	8° ∺ 46'05	
dese. Hode	15875 Mar 14 05:00	0°8		desc. node	15876 Feb 11 16:52	21°) 32'56	
evening max el	15875 Mar 28 00:04	16° 8 43'50	27°14'53	dese. Hode	15876 Feb 16 11:24	0° Υ	
retrograde	15875 Apr 10 13:31	24° 8 15'53	27 1433	evening max el	15876 Mar 09 12:08	29° Υ ′52'07	27°35'44
evening set	15875 Apr 17 04:52	21° 8 45'24		evening man er	15876 Mar 09 15:26	0°8	2, 55
min. Earth dist.	15875 Apr 21 01:41	18° 8 07'19	0.65100 AU	retrograde	15876 Mar 23 09:10	7° 8 21'59	
asc. node	15875 Apr 21 05:37	17° 8 56'39		evening set	15876 Mar 30 04:35	5° 8 00'47	
inferior conj	15875 Apr 23 11:32	15° 8 26'46	0°41'37	min. Earth dist.	15876 Apr 02 23:01	1° 8 50'49	0.63111 AU
minimum elong	15875 Apr 23 10:25	15° 8 29'51	0°40'42		15876 Apr 04 19:47	30° ₹ Υ	
morning rise	15875 Apr 29 17:49	9° 8 58'37		inferior conj	15876 Apr 05 19:46	28° Y ′59'40	-0°24'52
direct	15875 May 02 11:10	9° 8 19'24		minimum elong	15876 Apr 05 20:34	28° Y 57'39	
morning max el	15875 May 08 18:31	12° 8 35'07	17°56'43	asc. node	15876 Apr 07 02:57	27° Y ′42'59	
	15875 May 21 03:32	$\Pi^{\circ}0$		morning rise	15876 Apr 12 15:13	23° Y '47'01	
desc. node	15875 May 23 21:30	4° Ⅱ 29'50		direct	15876 Apr 15 00:24	23° Y 19'48	
morning set	15875 May 26 15:05	8° Ⅱ 59'44		morning max el	15876 Apr 21 12:11	26° Ƴ 37'53	17°46'12
	15875 Jun 08 13:58	0 \circ \odot			15876 Apr 24 11:15	0°8	

morning set	15876 May 07 19:14	21° 8 23'58		morning set	15877 Apr 20 19:16	4° 8 43'20	
desc. node	15876 May 09 18:21	24° 8 47'05		desc. node	15877 Apr 26 15:08	15° 8 13'43	
	15876 May 12 19:22	$\Pi^{\circ}0$					
				superior conj	15877 May 01 12:29	23° 8 48'41	-0°39'11
superior conj	15876 May 20 04:13	12° Ⅲ 20′29	-1°17'17	minimum elong	15877 May 01 08:59	23° 8 33'37	0°39'14
minimum elong	15876 May 19 21:00	11° Ⅱ 50'51	1°17'06		15877 May 05 03:36	$\Pi^{\circ}0$	
max. Earth dist.	15876 May 26 07:27	22° Ⅱ 16′05	1.44655 AU	max. Earth dist.	15877 May 08 22:11	6°Ⅱ16′02	1.43024 AU
	15876 May 31 05:12	0°ഇ		evening rise	15877 May 15 03:35	16° Ⅱ 15'44	
evening rise	15876 Jun 04 07:09	6° © 18'47		Ü	15877 May 24 02:46	0° ©	
Ü	15876 Jun 20 05:22	$0^{\circ}\Omega$			15877 Jun 15 11:59	$0^{\circ}\Omega$	
evening max el	15876 Jul 03 13:33	16°Ω59'55	20°42'25	evening max el	15877 Jun 16 08:52	0°Ω53'23	21°56'50
asc. node	15876 Jul 04 01:27	17° Ω 29'03	20 .220	asc. node	15877 Jun 20 22:21	4°Ω41'52	21 0000
retrograde	15876 Jul 11 18:49	21° Ω 42'55		retrograde	15877 Jun 25 16:59	6° Ω 20'28	
evening set	15876 Jul 15 23:51	20°Ω03'06		evening set	15877 Jun 30 09:15	4°Ω23'41	
•	15876 Jul 21 05:36	$13^{\circ}\Omega 55'50$	3°08'06	evening set	15877 Jul 04 06:11	30°R95	
inferior conj				::		•	2006146
minimum elong	15876 Jul 21 05:59	13° Ω 54'32	3°07'27	inferior conj	15877 Jul 05 15:06	28°506'16	3°06'46
min. Earth dist.	15876 Jul 21 19:59	13° Ω 06'12	0.68642 AU	minimum elong	15877 Jul 05 14:32	28°508'17	3°05'58
morning rise	15876 Jul 26 11:49	7° Ω 33'53		min. Earth dist.	15877 Jul 05 16:10	28° © 02'35	0.69093 AU
direct	15876 Jul 31 19:42	5° Ω 14'31		morning rise	15877 Jul 10 19:39	21° © 50'44	
desc. node	15876 Aug 05 17:08	6° Ω 48'30		direct	15877 Jul 15 15:13	19° © 48'12	
morning max el	15876 Aug 11 15:37	11° Ω 42'10	23°42'16	desc. node	15877 Jul 23 14:27	23° © 54'07	
	15876 Aug 26 07:17	0° m)		morning max el	15877 Jul 25 04:28	25° © 24'48	22°13'46
	15876 Sep 14 17:57	0∘ 亚			15877 Jul 29 08:08	$0^{\circ}\Omega$	
morning set	15876 Sep 15 15:27	1° ₽ 30'32			15877 Aug 19 18:07	o∘mp	
max. Earth dist.	15876 Sep 19 12:19	8° ഫ 10'13	1.39004 AU	morning set	15877 Aug 27 06:29	11° Mp 48'02	
	1			max. Earth dist.	15877 Sep 01 13:59	20° m) 31'00	1.41364 AU
superior conj	15876 Sep 27 03:12	22° ഫ 00'12	-0°26'23		15877 Sep 07 03:15	0∘ ⊽	
minimum elong	15876 Sep 27 05:06	22° ഫ 09'07			13077 Вер 07 03.13	٠ <u> </u>	
asc. node	15876 Sep 30 02:43	27° ⊆ 39'43	0 23 40	superior conj	15877 Sep 09 09:44	3° ჲ 59'35	1003'03
asc. node	15876 Oct 01 07:50	27 <u>=</u> 3943 0°M		minimum elong	*	4° £ 22'04	
		9°M32'09		C	15877 Sep 09 14:47		1 02 17
evening rise	15876 Oct 06 05:15			asc. node	15877 Sep 16 23:22	17° Ω 45'47	
	15876 Oct 17 15:20	0° ∡ ¹	1004015	evening rise	15877 Sep 19 18:50	22° ≏ 59'47	
evening max el	15876 Oct 22 10:25	5° ⋌ '59'40 –	18°49'57		15877 Sep 23 13:37	0° M	
retrograde	15876 Oct 30 23:01	10° ∡ 17'53		evening max el	15877 Oct 05 16:50	18° M 27'17	18°15'52
evening set	15876 Nov 01 20:35	10° ∡ 05'53		retrograde	15877 Oct 13 01:57	22°M13'14	
desc. node	15876 Nov 01 14:04	10° ∡ ′09′02		evening set	15877 Oct 15 03:54	21°M55'53	
inferior conj	15876 Nov 10 01:35	5° ∡ ¹45'17	-2°42'16	desc. node	15877 Oct 19 11:21	19° M 44'10	
minimum elong	15876 Nov 09 18:56	5° ∡ 757'14	2°39'00	inferior conj	15877 Oct 22 15:34	17° M l3'51	-1°01'07
min. Earth dist.	15876 Nov 13 01:37	3° ∡ ³36′21	0.56724 AU	minimum elong	15877 Oct 22 13:18	17° M 18'37	0°59'40
morning rise	15876 Nov 17 14:18	0° ∡ ¹55'40		min. Earth dist.	15877 Oct 25 21:44	14° M 30'27	0.58783 AU
	15876 Nov 20 02:29	30°RM		morning rise	15877 Oct 29 19:15	11° M 47'50	
direct	15876 Nov 23 12:25	29°M31'41		direct	15877 Nov 05 05:25	9° ™ 57'18	
	15876 Nov 26 22:55	0° ∡ ¹		morning max el	15877 Nov 19 12:29	17° M 37'10	27°29'54
morning max el	15876 Dec 07 16:35	6° ∡ ¹50'47	26°22'55	, and the second	15877 Nov 29 20:13	0° ∡ ¹	
	15876 Dec 24 18:27	0°ප		asc. node	15877 Dec 13 24:00	23° ∡ ¹26'46	
asc. node	15876 Dec 27 02:55	4° ろ 09'44			15877 Dec 17 08:01	0°る	
morning set	15877 Jan 05 10:35	22° る 45'36		morning set	15877 Dec 20 18:17	でる07'13	
morning set	15877 Jan 08 17:57	0° ≈		morning set	13877 DCC 20 18.17	7 00713	
	130// Jan 00 1/.3/	∪ ~ ~		superior conj	15877 Dec 27 15:59	22° る 18'43	1°35'40
	15055 1 10 04 22	70 - 40122	1020102				1°36'25
superior conj	15877 Jan 12 04:32	7°≈40'23	1°38'03	minimum elong	15877 Dec 27 15:04	22°る13'32	
minimum elong	15877 Jan 12 04:39	7°≈40'59	1°38'44	max. Earth dist.	15877 Dec 27 08:53	21° ට 38'53	1.31009 AU
max. Earth dist.	15877 Jan 13 01:03	9° ≈ 34'46	1.31306 AU		15877 Dec 31 02:34	0° ≈	
evening rise	15877 Jan 19 03:56	22° ≈ 54′21		evening rise	15878 Jan 03 09:54	7°≈13'35	
	15877 Jan 22 14:50	0° ∀		desc. node	15878 Jan 15 10:19	0°) 31′03	
desc. node	15877 Jan 28 13:34	11°) 16′23			15878 Jan 15 03:03	0°) €	
	15877 Feb 09 08:41	0 ° Υ		evening max el	15878 Feb 01 21:20	23°) 58′48	26°37'49
evening max el	15877 Feb 19 20:11	12° Y 20′59	27°24'19		15878 Feb 10 11:51	$0^{\circ}\mathbf{\Upsilon}$	
retrograde	15877 Mar 05 20:13	19° Y '42'39		retrograde	15878 Feb 15 21:22	1° Y ′09'48	
evening set	15877 Mar 12 14:40	17° Y '37'50			15878 Feb 21 04:41	30°₽)	
min. Earth dist.	15877 Mar 16 10:15	14° Ƴ 49'11	0.60913 AU	evening set	15878 Feb 22 07:47	29°) €27'53	
inferior conj	15877 Mar 19 14:17	12° Y ′02'38		min. Earth dist.	15878 Feb 26 10:59	26°) (49'58	0.58676 AU
minimum elong	15877 Mar 19 18:06	11° Y ′54'14	1°43'06	inferior conj	15878 Mar 01 15:20	24°) 24'49	
asc. node	15877 Mar 25 00:17	7° Υ ′58'58		minimum elong	15878 Mar 01 22:42	24°) 10'46	
morning rise	15877 Mar 27 00:52	7° Υ '08'31		morning rise	15878 Mar 09 17:03	19° X 51'59	2 10 10
direct	15877 Mar 29 03:37	6° Υ 49'50		direct	15878 Mar 11 16:20	19° X 31'39	
		10° Υ 21'26	17°53'51	asc. node	15878 Mar 11 21:38	19 ★ 3819	
morning max el	15877 Apr 05 04:27	0° 8	1 / 33 31			23° H 34'45	10020150
	15877 Apr 18 04:32	v O		morning max el	15878 Mar 19 15:37	43 八 34 43	10 20 39

	15000 F 1 12 06 10	150 4420	20021104		15001 1 00 06 20	22275445	
morning max el	15880 Feb 13 06:10	17° ≈ 44'30	20°21'04	morning rise	15881 Jan 09 06:28	22° る 54'15	
asc. node	15880 Feb 13 16:23	18° ≈ 09'40		direct	15881 Jan 12 19:07	22° ප් 26'50	
	15880 Feb 22 09:45	0° ∀		morning max el	15881 Jan 25 03:39	28° පි 25'17	21°55'02
morning set	15880 Mar 02 16:01	17° 米 39'10			15881 Jan 26 17:04	0° ≈	
	15880 Mar 08 15:56	0 ° $\mathbf{\gamma}$		asc. node	15881 Jan 30 13:43	4° ≈ 38'54	
					15881 Feb 13 23:04	0° ℋ	
superior conj	15880 Mar 10 06:56	3° Ƴ 17'56	0°56'17	morning set	15881 Feb 15 02:16	2° ∺ 22'25	
minimum elong	15880 Mar 10 09:27	3° Ƴ 30'41	0°55'55				
max. Earth dist.	15880 Mar 15 21:09	14° Ƴ 17′08	1.36428 AU	superior conj	15881 Feb 22 05:19	17°) 30′14	1°16'07
desc. node	15880 Mar 17 05:07	16° Ƴ 48'14		minimum elong	15881 Feb 22 07:42	17°)(42'47	1°16'04
evening rise	15880 Mar 19 16:13	21° Y 21'17		max. Earth dist.	15881 Feb 26 09:40	26° ₩ 08'01	1.34432 AU
	15880 Mar 24 13:40	0°8			15881 Feb 28 08:08	0° Y	
	15880 Apr 13 08:18	$\Pi^{\circ}0$		evening rise	15881 Mar 02 15:40	4° Ƴ 29'57	
evening max el	15880 Apr 24 03:23	12° Ⅱ 35'56	25°51'46	desc. node	15881 Mar 04 01:45	7° Υ 11'32	
retrograde	15880 May 06 17:17	19° Ⅱ 50'02			15881 Mar 17 09:24	0°8	
asc. node	15880 May 11 13:32	18° Ⅱ 15'47		evening max el	15881 Apr 06 17:16	26° 8 20'13	26°50'33
evening set	15880 May 12 19:22	17° I I19'41		evening max er	15881 Apr 10 22:14	0°II	20 0000
min. Earth dist.	15880 May 17 00:12	12° I I48'51	0.67537 AU	retrograde	15881 Apr 19 23:31	3° Ⅱ 48'08	
inferior conj	15880 May 17 00:12 15880 May 18 14:01	12 ∏ 4831 10° ∏ 49'23	1°59'10	evening set	15881 Apr 26 10:54	1° Ⅱ 15'49	
minimum elong	•	10 II 4923	1°57'49	evening set	15881 Apr 27 21:35	30°R 8	
•	15880 May 18 11:50		1 3/49	1	*		
morning rise	15880 May 24 04:56	5° I 01'09		asc. node	15881 Apr 28 10:47	29° 8 27'42	0.66111.411
direct	15880 May 27 13:42	3° ∏ 56′26		min. Earth dist.	15881 Apr 30 10:13	27° 8 19'31	0.66111 AU
morning max el	15880 Jun 03 06:17	7° Ⅲ 32'16	18°48'17	inferior conj	15881 May 02 12:56	24° 8 51'09	1°13'44
desc. node	15880 Jun 13 05:54	20° Ⅲ 24'46		minimum elong	15881 May 02 11:12	24° 8 56'15	1°12'31
greatest brilliancy	15880 Jun 17 01:15	26° Ⅱ 08'04	-0.8m	morning rise	15881 May 08 12:48	19° 8 15'07	
	15880 Jun 19 13:45	0 \circ 60		direct	15881 May 11 11:36	18° 8 27'17	
morning set	15880 Jun 25 14:06	9° © 19'07		morning max el	15881 May 17 19:50	21° 8 46'27	18°10'37
	15880 Jul 08 21:08	$0 {\circ} \mathcal{N}$			15881 May 24 10:11	Π $\circ 0$	
max. Earth dist.	15880 Jul 10 05:49	2° Ω 07'31	1.45838 AU	desc. node	15881 May 31 02:53	10° Ⅱ 16′52	
				morning set	15881 Jun 06 00:44	19° Ⅱ 45′07	
superior conj	15880 Jul 11 18:38	4° Ω 31'22	-2°14'13		15881 Jun 12 10:31	0 \circ \odot	
minimum elong	15880 Jul 11 18:53	4° Ω 32'21	2°14'56				
evening rise	15880 Jul 27 02:43	28° Ω 48'41		superior conj	15881 Jun 21 03:53	13° © 45'11	-2°04'27
	15880 Jul 27 20:30	0° m p		minimum elong	15881 Jun 20 21:01	13° © 18'21	2°04'53
asc. node	15880 Aug 07 13:20	16° m 57'25		max. Earth dist.	15881 Jun 23 02:33	16°5947'28	1.45956 AU
evening max el	15880 Aug 16 10:05	28° m, 37'28	18°29'23		15881 Jul 01 14:25	$\Omega^{\circ}\Omega$	
S	15880 Aug 17 22:54	0 ° $\overline{\mathbf{v}}$		evening rise	15881 Jul 07 06:35	8° Ω 47'49	
retrograde	15880 Aug 22 20:59	2° £ 05'12		greatest brilliancy	15881 Jul 18 16:02	26° Ω 17'51	-0.7m
evening set	15880 Aug 25 23:59	1° £ 10'15		greatest stillare;	15881 Jul 21 03:51	0° m	0.711
e vennig set	15880 Aug 27 15:09	30°R, MD		asc. node	15881 Jul 25 10:04	6° Mp 00'46	
inferior conj	15880 Aug 31 18:04	25° m/35'16	2°16'25	evening max el	15881 Jul 30 20:07	12° Mp 27'54	19°09'02
minimum elong	15880 Aug 31 20:22	25° m/28'20	2°15'41	retrograde	15881 Aug 06 17:41	16° M) 16'08	17 07 02
min. Earth dist.	15880 Sep 02 20:13		0.65324 AU	•	•	-•	
	•	23° Mp 04'45	0.03324 AU	evening set	15881 Aug 10 06:17	15° Mp 04'07	2047/01
morning rise	15880 Sep 06 15:29	19° Mp 11'44		inferior conj	15881 Aug 15 17:10	9° M) 15'20	2°47'01
desc. node	15880 Sep 09 03:29	17° Mp 32'12		minimum elong	15881 Aug 15 18:57	9° Mp 09'34	2°46'20
direct	15880 Sep 13 01:52	16° Mp 34'35	2500 442	min. Earth dist.	15881 Aug 17 05:12	7° m 18'53	0.66957 AU
morning max el	15880 Sep 26 11:34	24° m 26'22	27°04'43	morning rise	15881 Aug 21 06:55	2° Mp 48'47	
	15880 Oct 01 12:20	0∘ ⊽		direct	15881 Aug 27 08:26	0° m 13'11	
	15880 Oct 22 02:26	0°M		desc. node	15881 Aug 27 00:53	0° Mp 13′34	
morning set	15880 Nov 01 01:47	18°M03'53		morning max el	15881 Sep 08 23:05	7° ™ 43'48	25°56'45
asc. node	15880 Nov 03 14:46	23°M03'27			15881 Sep 26 08:59	0∘ ⊽	
max. Earth dist.	15880 Nov 05 07:39	26°M29'31	1.33465 AU	morning set	15881 Oct 14 21:47	0°M39'14	
	15880 Nov 07 00:38	0° ⊼			15881 Oct 14 13:14	0° M	
				max. Earth dist.	15881 Oct 18 14:24	7°M35'52	1.35358 AU
superior conj	15880 Nov 09 12:54	5° ҂ 15'48	0°52'17	asc. node	15881 Oct 21 11:33	13°M13'07	
minimum elong	15880 Nov 09 10:39	5° х 03′52	0°52'35				
evening rise	15880 Nov 16 16:19	20° х 32′36		superior conj	15881 Oct 24 07:54	18°M56'18	0°25'46
	15880 Nov 21 06:06	8°0		minimum elong	15881 Oct 24 06:28	18° M 49'01	0°26'03
desc. node	15880 Dec 06 01:02	23° ප 17'30		-	15881 Oct 29 16:23	0° ∡ ¹	
evening max el	15880 Dec 07 11:55		21°57'36	evening rise	15881 Nov 01 00:24	4° ∡ 751'10	
5 -	15880 Dec 15 01:12	0° ≈		S	15881 Nov 14 23:36	0° ට	
retrograde	15880 Dec 19 23:06	0°≈57'23		evening max el	15881 Nov 19 09:38	5° ਰ 13'45	20°27'53
evening set	15880 Dec 23 07:18	0°≈32'30		desc. node	15881 Nov 22 22:08	8° る 10'53	
- ,	15880 Dec 25 07:18	30°Rる		retrograde	15881 Nov 30 09:43	10°පි42'11	
inferior conj	15880 Dec 25 02:45 15880 Dec 31 21:08	26° පි 41'36	-5°59'45	evening set	15881 Dec 02 17:21	10°る4211	
minimum elong	15880 Dec 31 18:29	26°₹45′18		inferior conj	15881 Dec 11 13:07	6°る34'12	-5°13'17
min. Earth dist.			0.54428 AU		15881 Dec 11 13.07	6°る48'00	
mm. Darm ulst.	15880 Dec 31 17:13	ZU 04/U4	U.J4428 AU	minimum elong	13001 Dec 11 03:41	0 04800	J 10 44

min. Earth dist.	15881 Dec 12 22:48	5°₹44'58	0.54643 AU	desc. node	15882 Nov 09 19:17	21° ×7 04'04	
morning rise	15881 Dec 19 13:39	2° る 35'06	0.5 10 15 110	retrograde	15882 Nov 11 07:05	21°×°10'58	
direct	15881 Dec 24 03:43	1° る 49'53		evening set	15882 Nov 13 04:39	21° × °00'13	
morning max el	15882 Jan 06 14:23	8° ට 25'36	23°43'29	inferior conj	15882 Nov 21 17:54	16° ∡ 751'15	-3°42'27
asc. node	15882 Jan 17 11:00	22° る 13'32		minimum elong	15882 Nov 21 08:56	17° ∡ ¹06'01	3°38'36
	15882 Jan 22 00:51	0° ≈		min. Earth dist.	15882 Nov 24 08:09	15° ∡ ′08'47	0.55753 AU
morning set	15882 Jan 30 14:08	17° ≈ 06'02		morning rise	15882 Nov 29 10:56	12° ∡ °22′16	
-	15882 Feb 05 12:31	0°) €		direct	15882 Dec 04 22:53	11° √ 13′19	
				morning max el	15882 Dec 18 23:32	18° ∡ 19'17	25°30'06
superior conj	15882 Feb 06 10:16	1° ¥ 58′11	1°29'31		15882 Dec 28 16:16	8°0	
minimum elong	15882 Feb 06 11:58	2°) 07′24	1°29'50	asc. node	15883 Jan 04 08:12	10° る 37'22	
max. Earth dist.	15882 Feb 09 05:34	7° ¥ 59'40	1.32831 AU		15883 Jan 14 06:15	0° ≈	
evening rise	15882 Feb 14 03:11	18° ∺ 06'54		morning set	15883 Jan 15 01:46	1° ≈ 44'39	
desc. node	15882 Feb 18 22:25	27° ∺ 23'32					
	15882 Feb 20 08:22	0° Y		superior conj	15883 Jan 21 19:21	16° ≈ 34'51	1°36'42
	15882 Mar 11 15:58	0° S		minimum elong	15883 Jan 21 20:04	16° ≈ 38′50	1°37'17
evening max el	15882 Mar 20 06:18	9° 8 44'05	27°27'15	max. Earth dist.	15883 Jan 23 08:10	19° ≈ 58′09	1.31708 AU
retrograde	15882 Apr 02 23:17	17° 8 15'59			15883 Jan 27 23:51	0° ∀	
evening set	15882 Apr 09 17:06	14° 8 48'17		evening rise	15883 Jan 28 23:48	2°) (04'59	
min. Earth dist.	15882 Apr 13 12:30	11° 8 23'09	0.64295 AU	desc. node	15883 Feb 05 19:06	17°) 18′58	
asc. node	15882 Apr 15 08:05	9° 8 28'00			15883 Feb 13 05:28	0°Υ 	
inferior conj	15882 Apr 16 03:23	8° 8 36'18	0°15'08	evening max el	15883 Mar 02 16:43	22° Y 35'53	27°35'06
minimum elong	15882 Apr 16 02:57	8° 8 37'27	0°14'32		15883 Mar 15 11:34	0°8	
transit middle	15882 Apr 16 02:57	8° 8 37'27 8° 8 40'54	0°14′32	retrograde	15883 Mar 16 15:41	0° ႘ 03'48 30°Ŗ Ƴ	
transit begin	15882 Apr 16 01:39	8° 8 34'01			15883 Mar 17 19:27	30° γ 1 27° Υ 48'23	
transit end morning rise	15882 Apr 16 04:14 15882 Apr 22 14:59	3° 8 14'40		evening set min. Earth dist.	15883 Mar 23 11:25 15883 Mar 27 05:35	2/ 1 48 23 24° Y 48'42	0.62184 AU
direct	15882 Apr 25 04:45	2° 8 40'56		inferior conj	15883 Mar 30 06:12	24 1 48 42 21° Y 57'09	
morning max el	15882 May 01 12:53	5° 8 55'54	17°50'08	minimum elong	15883 Mar 30 08:09	21° Υ 52'29	
desc. node	15882 May 17 23:47	0° Ц 26'23	17 30 00	asc. node	15883 Apr 02 05:24	19° Υ 18'06	0 30 30
dese. Hode	15882 May 17 17:30	0°Ⅱ 0°Ⅱ		morning rise	15883 Apr 06 07:57	16° Υ 52'22	
morning set	15882 May 18 14:43	1° Ⅱ 29'05		direct	15883 Apr 08 14:02	16° Υ 29'19	
morning sec	10002 11111 10 111110	. 22,00		morning max el	15883 Apr 15 06:26		17°47'16
superior conj	15882 Jun 01 00:42	23° II 35'05	-1°37'33		15883 Apr 22 19:55	0°8	
minimum elong	15882 May 31 16:10	23° Ⅱ 00'49		morning set	15883 May 01 04:04	14° 8 18'49	
Č	15882 Jun 05 01:23	0ං ම		desc. node	15883 May 04 20:36	20° 8 48'04	
max. Earth dist.	15882 Jun 05 22:24	1°522'58	1.45325 AU		15883 May 10 04:20	$\Pi^{\circ}0$	
evening rise	15882 Jun 16 18:53	18°9512'56			•		
_	15882 Jun 24 13:36	$0^{\circ}\Omega$		superior conj	15883 May 12 19:24	4° Ⅱ 26'26	-1°01'19
greatest brilliancy	15882 Jul 01 12:25	10° Ω 15′22	-0.6m	minimum elong	15883 May 12 13:42	4° Ⅱ 02'30	1°01'11
asc. node	15882 Jul 12 06:51	24° Ω 30'34		max. Earth dist.	15883 May 19 14:57	15° Ⅱ 38′07	1.44018 AU
evening max el	15882 Jul 14 00:33	26° Ω 20'55	20°04'21	evening rise	15883 May 27 07:57	27° Ⅱ 47'40	
	15882 Jul 18 20:09	0° ™			15883 May 28 18:17	0 \circ \mathfrak{s}	
retrograde	15882 Jul 21 16:32	0°Mp41'36			15883 Jun 18 09:15	$0^{\circ}\Omega$	
	15882 Jul 24 09:19	30°R Ω		evening max el	15883 Jun 26 22:58	10° Ω 14'45	21°12'55
evening set	15882 Jul 25 15:19	29° Ω 11'55		asc. node	15883 Jun 29 03:43	12° Ω 15'58	
inferior conj	15882 Jul 30 22:07	23°Ω10'50	3°03'54	retrograde	15883 Jul 05 15:28	15° Ω 16'34	
minimum elong	15882 Jul 30 23:03	23° Ω 07'40	3°03'15	evening set	15883 Jul 10 01:06	13° Ω 29'32	2000151
min. Earth dist.	15882 Jul 31 20:16	21° Ω 55'39	0.68158 AU	inferior conj	15883 Jul 15 06:36		3°08'51
morning rise	15882 Aug 05 06:24	16° Ω 46'03		minimum elong	15883 Jul 15 06:34	7° Ω 17'45	3°08'09
direct	15882 Aug 10 20:58	14° Ω 19'09		min. Earth dist.	15883 Jul 15 15:19	6° Ω 47'19	0.68892 AU
desc. node	15882 Aug 13 22:16	14° Ω 55'50	24922121	morning rise	15883 Jul 20 11:47	0° £ 57′53 30° ₹ ©	
morning max el	15882 Aug 22 10:06 15882 Aug 30 00:27	21° Ω 13'58 0° m	24 33 21	direct	15883 Jul 21 17:47 15883 Jul 25 14:24	30 ଝୁଞ 28°9345'11	
	15882 Sep 19 14:13	0∘ ত اللا		direct	15883 Jul 29 20:20	28 3 43 11	
morning set	15882 Sep 27 00:14	0 = 12° £ 28'03		desc. node	15883 Jul 31 19:35	1° Ω 16'18	
max. Earth dist.	15882 Sep 30 14:06	12 — 28 03	1.37621 AU	morning max el	15883 Aug 04 21:30	4° Ω 52'09	23°04'08
max. Darm dist.	15882 Oct 06 14:01	0°M	1.57021710	morning max cr	15883 Aug 24 06:07	0° m)	23 04 00
	1002 001 00 14.01	∪ IIW		morning set	15883 Sep 08 05:04	23° m/21'08	
superior conj	15882 Oct 07 15:53	2°ML04'37	-0°06'09		15883 Sep 12 03:57	0° <u>م</u>	
minimum elong	15882 Oct 07 16:16	2°M06'28		max. Earth dist.	15883 Sep 12 12:51	ი∘ ত 38,00	1.40030 AU
behind sun begin	15882 Oct 07 09:56	1°M35'48			1		
behind sun end	15882 Oct 07 22:36	2°M37'12		superior conj	15883 Sep 20 08:59	14° ≏ 32'19	-0°41'52
asc. node	15882 Oct 08 08:15	3°M24'03		minimum elong	15883 Sep 20 12:11	14° ≏ 46'59	
evening rise	15882 Oct 16 03:42	18°M55'49		asc. node	15883 Sep 25 04:54	23° △ 33'00	
	15882 Oct 21 20:05	0° ∡ ¹			15883 Sep 28 14:02	0° M	
evening max el	15882 Nov 01 21:54	16° ∡ "28'39	19°19'14	evening rise	15883 Sep 29 23:19	2°M39'32	

evening max el	15883 Oct 15 22:57	28°M32'35	18°32'53	evening rise	15884 Sep 12 07:31	15° ≏ 52'50	
	15883 Oct 17 13:31	0° ∡			15884 Sep 20 05:54	0° M	
retrograde	15883 Oct 23 22:36	2° ∡ ³35′16		evening max el	15884 Sep 28 08:36	11°M16'36	18°07'34
evening set	15883 Oct 25 21:26	2° ₹ 21'32		retrograde	15884 Oct 05 08:56	14°M52'13	
desc. node	15883 Oct 27 16:30	1° ∡ ¹46′18		evening set	15884 Oct 07 13:59	14° M 31'14	
	15883 Oct 30 21:15	30°RM		desc. node	15884 Oct 13 13:47	10°M43'13	
inferior conj	15883 Nov 02 19:19	27° M 52'12	-1°57'59	inferior conj	15884 Oct 14 18:13	9° ™ 40'31	-0°22'35
minimum elong	15883 Nov 02 14:37	28°M01'14		minimum elong	15884 Oct 14 17:27	9° M 42′15	0°21'49
min. Earth dist.	15883 Nov 05 23:45	25°M26'05	0.57559 AU	min. Earth dist.	15884 Oct 17 23:41	6° M 48′20	0.59754 AU
morning rise	15883 Nov 10 04:24	22°M46'28		morning rise	15884 Oct 21 17:39	4° ጤ 01'22	
direct	15883 Nov 16 08:36	21°M10'38		direct	15884 Oct 28 07:17	2°M00'08	
morning max el	15883 Nov 30 14:30		26°55'42	morning max el	15884 Nov 11 13:40	9° M 46′23	27°46'46
	15883 Dec 01 22:35	0° ⊀			15884 Nov 27 04:49	0° ∡ ¹	
asc. node	15883 Dec 22 05:19	29° ⋌ ³37'52		asc. node	15884 Dec 08 02:22	19° ₹ 05'16	
	15883 Dec 22 10:04	0°ප			15884 Dec 13 11:51	0°ಕ	
morning set	15883 Dec 30 11:24	16° る 13'34		morning set	15884 Dec 13 17:14	0° る 28'23	
	15884 Jan 05 17:14	0° ≈		max. Earth dist.	15884 Dec 19 22:37	14° る 03'44	1.31050 AU
						_	
superior conj	15884 Jan 06 06:29	1° ≈ 14′09	1°37'47	superior conj	15884 Dec 20 17:48	15° る 50'53	1°32'52
minimum elong	15884 Jan 06 06:08	1°≈12'14	1°38'31	minimum elong	15884 Dec 20 16:29	15° る 43'29	1°33'34
max. Earth dist.	15884 Jan 06 15:00	2° ≈ 01'49	1.31109 AU	evening rise	15884 Dec 27 10:39	0° ≈ 41'17	
evening rise	15884 Jan 13 02:59	16° ≈ 18′10			15884 Dec 27 03:00	0° ≈	
	15884 Jan 19 21:59	0° ℋ		desc. node	15885 Jan 09 12:34	25° ≈ 50'19	
desc. node	15884 Jan 23 15:48	6° ¥ 50'47			15885 Jan 12 02:57	0° ℋ	
	15884 Feb 08 10:44	0° Y		evening max el	15885 Jan 24 20:08	15° ¥ 59'53	26°08'00
evening max el	15884 Feb 12 22:10	4° Ƴ 43'48	27°08'58	retrograde	15885 Feb 07 19:12	23°) €04'50	
retrograde	15884 Feb 26 23:01	12° Y ′01'40		evening set	15885 Feb 13 23:29	21°) ₹34′38	
evening set	15884 Mar 04 14:43	10° Y ′06′05		min. Earth dist.	15885 Feb 18 09:21	18° ¥ 56′50	0.57772 AU
min. Earth dist.	15884 Mar 08 12:32	7° Y ′23′16	0.59939 AU	inferior conj	15885 Feb 21 10:22	16° ¥ 46′15	-3°51'55
inferior conj	15884 Mar 11 17:44	4° Y 43'41	-2°21'43	minimum elong	15885 Feb 21 18:58	16° ¥ 30′50	3°48'49
minimum elong	15884 Mar 11 23:03	4° Y ′32'37	2°19'37	morning rise	15885 Mar 01 17:36	12° ∺ 22'16	
morning rise	15884 Mar 19 10:54	29° ¥ 58'17		direct	15885 Mar 03 17:02	12° ₩ 09'32	
asc. node	15884 Mar 19 02:46	0° Y 03′58		asc. node	15885 Mar 06 00:08	12° ∺ 27'33	
	15884 Mar 19 08:18	30° ₹		morning max el	15885 Mar 12 04:41	16°) € 20′07	18°38'51
direct	15884 Mar 21 11:32	29°) 42'15			15885 Mar 21 19:02	0 ° Υ	
	15884 Mar 23 13:44	0° Y		morning set	15885 Mar 28 05:42	12° Y ′04'50	
morning max el	15884 Mar 28 20:59	3° Y ′23'34	18°02'56				
morning set	15884 Apr 13 10:47	27° Y ′55'44		superior conj	15885 Apr 06 03:20	29° Ƴ 08'11	0°12'05
	15884 Apr 14 13:38	0°B		minimum elong	15885 Apr 06 04:08	29° Ƴ 11'56	0°11'37
desc. node	-	11° 8 16'51		behind sun begin	15885 Apr 05 23:19	28° Ƴ 49'28	
	•			behind sun end	15885 Apr 06 08:57	29° Y '34'22	
superior conj	15884 Apr 23 13:18	16° 8 20'17	-0°23'10		15885 Apr 06 14:27	0° ႘	
minimum elong	15884 Apr 23 11:21	16° 8 11'37	0°23'21	desc. node	15885 Apr 07 14:03	1° 8 49'08	
max. Earth dist.	15884 May 01 03:11	29° 8 20'28	1.42176 AU	max. Earth dist.	15885 Apr 13 11:22	12° 8 22'30	1.39992 AU
	15884 May 01 12:41	Π $^{\circ}0$		evening rise	15885 Apr 17 12:45	19° 8 18'35	
evening rise	15884 May 06 11:54	8° Ⅱ 05'32		-	15885 Apr 24 02:35	$\Pi^{\circ}0$	
-	15884 May 20 21:19	$0 \circ \mathfrak{S}$			15885 May 15 03:53	0°©	
evening max el	15884 Jun 08 16:25	24° © 08'37	22°30'48	evening max el	15885 May 22 06:51	8° 5 03'10	23°52'20
asc. node	15884 Jun 15 00:39	29° 5 01'35		asc. node	15885 Jun 01 21:40	14° 5 30'03	
retrograde	15884 Jun 18 12:48	29° © 54'46		retrograde	15885 Jun 02 07:15	14° © 30'44	
evening set	15884 Jun 23 09:53	27° © 51'39		evening set	15885 Jun 07 16:03	12° © 13'48	
inferior conj	15884 Jun 28 16:30	21° © 30'42	3°03'00	min. Earth dist.	15885 Jun 12 08:30	6°9345'41	0.68890 AU
minimum elong	15884 Jun 28 15:33	21°534'00	3°02'08	inferior conj	15885 Jun 13 01:55	5°9346'15	2°46'43
min. Earth dist.	15884 Jun 28 12:05	21° © 46'05	0.69137 AU	minimum elong	15885 Jun 13 00:13	5° © 52'02	2°45'38
morning rise	15884 Jul 03 21:04	15° © 18'10		Č	15885 Jun 17 23:43	30°RⅡ	
direct	15884 Jul 08 11:28	13° 5 23'23		morning rise	15885 Jun 18 08:25	29° Ⅱ 42'22	
morning max el	15884 Jul 17 11:54	18° © 38'12	21°37'45	direct	15885 Jun 22 10:47	28° Ⅱ 07'19	
desc. node	15884 Jul 17 16:51	18° © 50'38			15885 Jun 27 08:09	0ංම	
	15884 Jul 26 22:33	0°Ω		morning max el	15885 Jun 30 08:16	2° 5 34'49	20°20'50
	15884 Aug 16 08:50	0° mp		desc. node	15885 Jul 04 14:04	7° 5 19'48	
morning set	15884 Aug 18 09:56	3° mp 13'05			15885 Jul 20 17:10	0°Ω	
max. Earth dist.	15884 Aug 24 16:43		1.42299 AU	morning set	15885 Jul 28 19:09	12° Ω 16'36	
		4		max. Earth dist.	15885 Aug 07 03:37	26°Ω56'18	1.44161 AU
superior conj	15884 Sep 01 06:51	26° m 09'35	-1°18'20		15885 Aug 09 01:24	0° m)	
minimum elong	15884 Sep 01 13:12	26° m/37'06				٦	
3	15884 Sep 03 11:41	0∘ ⊽		superior conj	15885 Aug 13 05:45	6° Mp 48'23	-1°50'20
asc. node	15884 Sep 11 01:34	13° ≏ 36'15		minimum elong	15885 Aug 13 13:33	7° m/20'28	
					1000 1100 10 10.00	, 2020	

	15005 A 25 22-20	200 m 22120			15006 A 01 15-20	00 m	
evening rise	15885 Aug 25 23:29	28° m/23'29			15886 Aug 01 15:39	0° M)	
	15885 Aug 26 21:46	0° ⊽		evening rise	15886 Aug 07 18:00	9° Mp 58'46	
asc. node	15885 Aug 28 22:12	3° Ω 29'34	10001110	asc. node	15886 Aug 15 18:52	23° Mp 08'37	
evening max el	15885 Sep 11 22:36	24° ≏ 29'55	18°01'42		15886 Aug 20 04:58	0∘ ⊽	
retrograde	15885 Sep 18 10:19	27° ≏ 52'15		evening max el	15886 Aug 26 13:22	8° ≙ 03'54	18°14'12
evening set	15885 Sep 20 23:16	27° ≏ 20'24		retrograde	15886 Sep 01 22:08	11° ≏ 26′13	
inferior conj	15885 Sep 27 11:37	22° ₽ 10′25	0°54'22	evening set	15886 Sep 04 19:45	10° ≏ 40'30	
minimum elong	15885 Sep 27 13:08	22° ≏ 06'32	0°54'03	inferior conj	15886 Sep 10 19:30	5° ≙ 14'01	1°51'36
desc. node	15885 Sep 30 11:09	19° ഫ 08'30		minimum elong	15886 Sep 10 21:48	5° ≏ 07'24	1°50'54
min. Earth dist.	15885 Sep 30 09:31	19° ≙ 12'28	0.62046 AU	min. Earth dist.	15886 Sep 13 05:28	2° ≏ 28'55	0.64202 AU
morning rise	15885 Oct 04 00:27	16° ≏ 06′22			15886 Sep 15 15:40	30°R, Mp	
direct	15885 Oct 10 16:51	13° ≏ 44'53		morning rise	15886 Sep 16 22:08	28° m 54'51	
morning max el	15885 Oct 24 19:44	21° ≏ 41'48	27°58'28	desc. node	15886 Sep 17 08:33	28° m 35'01	
	15885 Nov 01 02:30	0° M .		direct	15886 Sep 23 11:53	26° Mp 20'50	
	15885 Nov 20 07:57	0° ∡ ¹			15886 Oct 02 08:37	0∘ ত	
asc. node	15885 Nov 24 23:19	8° ∡ 751'16		morning max el	15886 Oct 07 05:59	4° ≏ 18'58	27°33'16
morning set	15885 Nov 27 17:09	14° ∡ °23′18		_	15886 Oct 26 16:21	0° M .	
max. Earth dist.	15885 Dec 03 03:05	25° ₹ 53'29	1.31545 AU	morning set	15886 Nov 11 08:44	27°ML53'07	
	15885 Dec 04 23:58	0°ප		asc. node	15886 Nov 11 20:14	28°M50'17	
					15886 Nov 12 10:10	0° ∡ 7	
superior conj	15885 Dec 05 03:23	0° る 18'51	1°21'55	max. Earth dist.	15886 Nov 16 00:35		1.32606 AU
minimum elong	15885 Dec 05 01:20	0°る07'30	1°22'28	max. Earth dist.	130001107 10 00.33	, , 2552	1.52000 110
evening rise	15885 Dec 03 01:20 15885 Dec 11 20:47	0 00730 15°る08'35	1 22 20	superior conj	15886 Nov 19 09:15	14° ∡ ³33'18	1°04'52
evening rise		0°≈		minimum elong		14° x ¹ 20'36	1°05'15
1 1-	15885 Dec 19 03:03			2	15886 Nov 19 06:54		1 03 13
desc. node	15885 Dec 27 09:25	14°≈04'52	2.402.012.7	evening rise	15886 Nov 26 07:39	29° ∡ 36′04	
evening max el	15886 Jan 06 09:36	26°≈25'10	24°38'37		15886 Nov 26 12:07	0°ප	
	15886 Jan 10 18:23	0°) {			15886 Dec 13 06:07	0°≈	
retrograde	15886 Jan 20 02:39	3° ¥ 15'45		desc. node	15886 Dec 14 06:21	1°≈18'27	
evening set	15886 Jan 25 10:17	2° 米 13′22		evening max el	15886 Dec 18 19:01	6° ≈ 22'00	22°55'39
	15886 Jan 29 21:50	30° R ≈		retrograde	15886 Dec 31 21:25	12° ≈ 51′05	
min. Earth dist.	15886 Jan 30 21:30	29° ≈ 24'27	0.55939 AU	evening set	15887 Jan 04 23:25	12° ≈ 14'49	
inferior conj	15886 Feb 02 05:49	27° ≈ 56'36		min. Earth dist.	15887 Jan 12 04:33	8° ≈ 55'08	0.54736 AU
minimum elong	15886 Feb 02 14:40	27° ≈ 42'46	5°10'07	inferior conj	15887 Jan 13 06:18	8° ≈ 18′27	-5°58'37
morning rise	15886 Feb 10 21:16	23° ≈ 53'32		minimum elong	15887 Jan 13 09:08	8° ≈ 14'24	5°57'47
direct	15886 Feb 13 02:56	23° ≈ 40′01		morning rise	15887 Jan 21 20:09	4° ≈ 29'08	
asc. node	15886 Feb 20 21:31	26° ≈ 36'47		direct	15887 Jan 24 18:34	4° ≈ 09'07	
morning max el	15886 Feb 23 01:20	28° ≈ 29′25	19°37'06	morning max el	15887 Feb 05 07:34	9° ≈ 43'04	20°58'38
	15886 Feb 24 12:07	0°) €		asc. node	15887 Feb 07 18:53	12° ≈ 20′18	
morning set	15886 Mar 12 08:49	26°) 33′50			15887 Feb 19 02:43	0° ∀	
	15886 Mar 14 01:41	$0^{\circ}\mathbf{\Upsilon}$		morning set	15887 Feb 24 17:08	11° ∺ 13′50	
				•			
superior conj	15886 Mar 20 09:03	12° Ƴ 37'44	0°41'56	superior conj	15887 Mar 04 02:21	26°) 37′28	1°05'29
minimum elong	15886 Mar 20 11:16	12° Ƴ 48'39	0°41'28	minimum elong	15887 Mar 04 04:54	26°) € 50'36	1°05'15
desc. node	15886 Mar 25 10:42	22° Y ′20'55			15887 Mar 05 18:03	0° Υ	
max. Earth dist.	15886 Mar 26 17:37	24° Y '44'13	1.37695 AU	max. Earth dist.	15887 Mar 09 02:17	6° Ƴ 39'21	1.35533 AU
	15886 Mar 29 15:20	0°8	-10,0,0,0	desc. node	15887 Mar 12 07:20	12° Y 48'30	
evening rise	15886 Mar 30 10:08	1° 8 23'23		evening rise	15887 Mar 13 01:07	14° Υ 11'40	
evening rise	15886 Apr 17 07:12	0°Ⅱ		evening rise	15887 Mar 22 01:06	0°8	
evening max el	15886 May 04 20:15	21° II 57'27	25°10'53			0°II	
retrograde		21 113/2/	23 10 33				
renograde	-	200∏50!15		avaning may al	15887 Apr 12 01:21		26910105
asa mada	15886 May 16 21:52	28°∏58'15		evening max el	15887 Apr 17 09:48	5° Ⅱ 47'04	26°19'05
asc. node	15886 May 16 21:52 15886 May 19 18:46	28° Ⅲ 23'56		retrograde	15887 Apr 17 09:48 15887 Apr 30 07:35	5°∏47'04 13°∏09'22	26°19'05
evening set	15886 May 16 21:52 15886 May 19 18:46 15886 May 22 17:59	28°Щ23'56 26°Щ31'09	0.60150 A11	retrograde evening set	15887 Apr 17 09:48 15887 Apr 30 07:35 15887 May 06 13:54	5° П 47'04 13° П 09'22 10° П 37'09	26°19'05
evening set min. Earth dist.	15886 May 16 21:52 15886 May 19 18:46 15886 May 22 17:59 15886 May 27 02:30	28°Щ23'56 26°Щ31'09 21°Щ40'00	0.68158 AU	retrograde evening set asc. node	15887 Apr 17 09:48 15887 Apr 30 07:35 15887 May 06 13:54 15887 May 06 15:59	5°П47'04 13°П09'22 10°П37'09 10°П32'50	
evening set min. Earth dist. inferior conj	15886 May 16 21:52 15886 May 19 18:46 15886 May 22 17:59 15886 May 27 02:30 15886 May 28 08:58	28°Щ23'56 26°Щ31'09 21°Щ40'00 20°Щ00'26	2°19'49	retrograde evening set asc. node min. Earth dist.	15887 Apr 17 09:48 15887 Apr 30 07:35 15887 May 06 13:54 15887 May 06 15:59 15887 May 10 16:05	5°П47'04 13°П09'22 10°П37'09 10°П32'50 6°П21'26	0.66972 AU
evening set min. Earth dist. inferior conj minimum elong	15886 May 16 21:52 15886 May 19 18:46 15886 May 22 17:59 15886 May 27 02:30 15886 May 28 08:58 15886 May 28 06:50	28°Щ23'56 26°Щ31'09 21°Щ40'00 20°Щ00'26 20°Щ07'25		retrograde evening set asc. node min. Earth dist. inferior conj	15887 Apr 17 09:48 15887 Apr 30 07:35 15887 May 06 13:54 15887 May 06 15:59 15887 May 10 16:05 15887 May 12 11:31	5° Π47'04 13° Π09'22 10° Π37'09 10° Π32'50 6° Π21'26 4° Π08'16	0.66972 AU 1°41'27
evening set min. Earth dist. inferior conj minimum elong morning rise	15886 May 16 21:52 15886 May 19 18:46 15886 May 22 17:59 15886 May 27 02:30 15886 May 28 08:58 15886 May 28 06:50 15886 Jun 02 20:02	28° II 23'56 26° II 31'09 21° II 40'00 20° II 00'26 20° II 07'25 14° II 06'21	2°19'49	retrograde evening set asc. node min. Earth dist.	15887 Apr 17 09:48 15887 Apr 30 07:35 15887 May 06 13:54 15887 May 06 15:59 15887 May 10 16:05 15887 May 12 11:31 15887 May 12 09:26	5° Π47'04 13° Π09'22 10° Π37'09 10° Π32'50 6° Π21'26 4° Π08'16 4° Π14'39	0.66972 AU
evening set min. Earth dist. inferior conj minimum elong morning rise direct	15886 May 16 21:52 15886 May 19 18:46 15886 May 22 17:59 15886 May 27 02:30 15886 May 28 08:58 15886 May 28 06:50 15886 Jun 02 20:02 15886 Jun 06 10:57	28° II 23'56 26° II 31'09 21° II 40'00 20° II 00'26 20° II 07'25 14° II 06'21 12° II 51'04	2°19'49 2°18'30	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	15887 Apr 17 09:48 15887 Apr 30 07:35 15887 May 06 13:54 15887 May 06 15:59 15887 May 10 16:05 15887 May 12 11:31 15887 May 12 09:26 15887 May 16 04:27	5°Π47'04 13°Π09'22 10°Π37'09 10°Π32'50 6°Π21'26 4°Π08'16 4°Π14'39 30°κ8	0.66972 AU 1°41'27
evening set min. Earth dist. inferior conj minimum elong morning rise	15886 May 16 21:52 15886 May 19 18:46 15886 May 22 17:59 15886 May 27 02:30 15886 May 28 08:58 15886 May 28 06:50 15886 Jun 02 20:02 15886 Jun 06 10:57 15886 Jun 13 11:59	28° Π23'56 26° Π31'09 21° Π40'00 20° Π00'26 20° Π07'25 14° Π06'21 12° Π51'04 16° Π42'10	2°19'49	retrograde evening set asc. node min. Earth dist. inferior conj	15887 Apr 17 09:48 15887 Apr 30 07:35 15887 May 06 13:54 15887 May 06 15:59 15887 May 10 16:05 15887 May 12 11:31 15887 May 12 09:26 15887 May 16 04:27 15887 May 18 05:54	5°Π47'04 13°Π09'22 10°Π37'09 10°Π32'50 6°Π21'26 4°Π08'16 4°Π14'39 30°R& 28°&25'08	0.66972 AU 1°41'27
evening set min. Earth dist. inferior conj minimum elong morning rise direct	15886 May 16 21:52 15886 May 19 18:46 15886 May 22 17:59 15886 May 27 02:30 15886 May 28 08:58 15886 May 28 06:50 15886 Jun 02 20:02 15886 Jun 06 10:57 15886 Jun 13 11:59 15886 Jun 21 11:13	28° II 23'56 26° II 31'09 21° II 40'00 20° II 00'26 20° II 07'25 14° II 06'21 12° II 51'04 16° II 42'10 26° II 29'29	2°19'49 2°18'30	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	15887 Apr 17 09:48 15887 Apr 30 07:35 15887 May 06 13:54 15887 May 06 15:59 15887 May 10 16:05 15887 May 12 11:31 15887 May 12 09:26 15887 May 16 04:27 15887 May 18 05:54 15887 May 21 10:12	5° ∏47'04 13° ∏09'22 10° ∏37'09 10° ∏32'50 6° ∏21'26 4° ∏08'16 4° ∏14'39 30° R♂ 28° ♂25'08 27° ♂28'06	0.66972 AU 1°41'27
evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	15886 May 16 21:52 15886 May 19 18:46 15886 May 22 17:59 15886 May 27 02:30 15886 May 28 08:58 15886 May 28 06:50 15886 Jun 02 20:02 15886 Jun 06 10:57 15886 Jun 13 11:59 15886 Jun 21 11:13 15886 Jun 23 22:21	28° ∏23'56 26° ∏31'09 21° ∏40'00 20° ∏00'26 20° ∏07'25 14° ∏06'21 12° ∏51'04 16° ∏42'10 26° ∏29'29 0° €	2°19'49 2°18'30	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise	15887 Apr 17 09:48 15887 Apr 30 07:35 15887 May 06 13:54 15887 May 06 15:59 15887 May 10 16:05 15887 May 12 11:31 15887 May 12 09:26 15887 May 16 04:27 15887 May 18 05:54	5°П47'04 13°П09'22 10°П37'09 10°П32'50 6°П21'26 4°П08'16 4°П14'39 30°R& 28°Ø25'08 27°Ø28'06 0°П	0.66972 AU 1°41'27 1°40'06
evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	15886 May 16 21:52 15886 May 19 18:46 15886 May 22 17:59 15886 May 27 02:30 15886 May 28 08:58 15886 May 28 06:50 15886 Jun 02 20:02 15886 Jun 06 10:57 15886 Jun 13 11:59 15886 Jun 21 11:13	28° II 23'56 26° II 31'09 21° II 40'00 20° II 00'26 20° II 07'25 14° II 06'21 12° II 51'04 16° II 42'10 26° II 29'29	2°19'49 2°18'30	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise	15887 Apr 17 09:48 15887 Apr 30 07:35 15887 May 06 13:54 15887 May 06 15:59 15887 May 10 16:05 15887 May 12 11:31 15887 May 12 09:26 15887 May 16 04:27 15887 May 18 05:54 15887 May 21 10:12	5° ∏47'04 13° ∏09'22 10° ∏37'09 10° ∏32'50 6° ∏21'26 4° ∏08'16 4° ∏14'39 30° R♂ 28° ♂25'08 27° ♂28'06	0.66972 AU 1°41'27 1°40'06
evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	15886 May 16 21:52 15886 May 19 18:46 15886 May 22 17:59 15886 May 27 02:30 15886 May 28 08:58 15886 May 28 06:50 15886 Jun 02 20:02 15886 Jun 06 10:57 15886 Jun 13 11:59 15886 Jun 21 11:13 15886 Jun 23 22:21	28° ∏23'56 26° ∏31'09 21° ∏40'00 20° ∏00'26 20° ∏07'25 14° ∏06'21 12° ∏51'04 16° ∏42'10 26° ∏29'29 0° €	2°19'49 2°18'30 19°17'37	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct	15887 Apr 17 09:48 15887 Apr 30 07:35 15887 May 06 13:54 15887 May 06 15:59 15887 May 10 16:05 15887 May 12 11:31 15887 May 12 09:26 15887 May 16 04:27 15887 May 18 05:54 15887 May 21 10:12 15887 May 26 22:08	5°П47'04 13°П09'22 10°П37'09 10°П32'50 6°П21'26 4°П08'16 4°П14'39 30°R& 28°Ø25'08 27°Ø28'06 0°П	0.66972 AU 1°41'27 1°40'06
evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy	15886 May 16 21:52 15886 May 19 18:46 15886 May 22 17:59 15886 May 27 02:30 15886 May 28 08:58 15886 May 28 06:50 15886 Jun 02 20:02 15886 Jun 06 10:57 15886 Jun 13 11:59 15886 Jun 21 11:13 15886 Jun 23 22:21 15886 Jun 26 04:46	28° ∏23'56 26° ∏31'09 21° ∏40'00 20° ∏00'26 20° ∭07'25 14° ∭06'21 12° ∭51'04 16° ∭42'10 26° ∭29'29 0° ∰ 3° ∰19'20	2°19'49 2°18'30 19°17'37	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el	15887 Apr 17 09:48 15887 Apr 30 07:35 15887 May 06 13:54 15887 May 06 15:59 15887 May 10 16:05 15887 May 12 11:31 15887 May 12 09:26 15887 May 16 04:27 15887 May 18 05:54 15887 May 21 10:12 15887 May 26 22:08 15887 May 27 22:26	5° Π47'04 13° Π09'22 10° Π37'09 10° Π32'50 6° Π21'26 4° Π08'16 4° Π14'39 30° R 28° 825'08 27° 828'06 0° Π 0° Π55'35	0.66972 AU 1°41'27 1°40'06
evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy	15886 May 16 21:52 15886 May 19 18:46 15886 May 22 17:59 15886 May 27 02:30 15886 May 28 08:58 15886 May 28 06:50 15886 Jun 02 20:02 15886 Jun 06 10:57 15886 Jun 13 11:59 15886 Jun 21 11:13 15886 Jun 23 22:21 15886 Jun 26 04:46 15886 Jul 07 23:45	28° II 23'56 26° II 31'09 21° II 40'00 20° II 00'26 20° II 07'25 14° II 06'21 12° II 51'04 16° II 42'10 26° II 29'29 0° II 3'05 0° Ω	2°19'49 2°18'30 19°17'37	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el	15887 Apr 17 09:48 15887 Apr 30 07:35 15887 May 06 13:54 15887 May 06 15:59 15887 May 10 16:05 15887 May 12 11:31 15887 May 12 09:26 15887 May 16 04:27 15887 May 18 05:54 15887 May 21 10:12 15887 May 26 22:08 15887 May 27 22:26 15887 Jun 08 08:15	5° Π47'04 13° Π09'22 10° Π37'09 10° Π32'50 6° Π21'26 4° Π08'16 4° Π14'39 30° R8 28° 825'08 27° 828'06 0° Π 0° Π55'35 16° Π08'25	0.66972 AU 1°41'27 1°40'06
evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set	15886 May 16 21:52 15886 May 19 18:46 15886 May 22 17:59 15886 May 27 02:30 15886 May 28 08:58 15886 May 28 06:50 15886 Jun 02 20:02 15886 Jun 06 10:57 15886 Jun 13 11:59 15886 Jun 21 11:13 15886 Jun 23 22:21 15886 Jun 26 04:46 15886 Jul 07 23:45 15886 Jul 13 16:19	28° II 23'56 26° II 31'09 21° II 40'00 20° II 00'26 20° II 07'25 14° II 06'21 12° II 51'04 16° II 42'10 26° II 29'29 0° II 3'05 0° Ω	2°19'49 2°18'30 19°17'37 -0.7m	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	15887 Apr 17 09:48 15887 Apr 30 07:35 15887 May 06 13:54 15887 May 06 15:59 15887 May 10 16:05 15887 May 12 11:31 15887 May 12 09:26 15887 May 16 04:27 15887 May 18 05:54 15887 May 21 10:12 15887 May 26 22:08 15887 May 27 22:26 15887 Jun 08 08:15 15887 Jun 17 05:27	5° Π47'04 13° Π09'22 10° Π37'09 10° Π32'50 6° Π21'26 4° Π08'16 4° Π14'39 30° R8 28° 825'08 27° 828'06 0° Π 0° Π55'35 16° Π08'25 0° ©	0.66972 AU 1°41'27 1°40'06
evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set	15886 May 16 21:52 15886 May 19 18:46 15886 May 22 17:59 15886 May 27 02:30 15886 May 28 08:58 15886 May 28 06:50 15886 Jun 02 20:02 15886 Jun 06 10:57 15886 Jun 13 11:59 15886 Jun 21 11:13 15886 Jun 23 22:21 15886 Jun 26 04:46 15886 Jul 07 23:45 15886 Jul 13 16:19	28° II 23'56 26° II 31'09 21° II 40'00 20° II 00'26 20° II 07'25 14° II 06'21 12° II 51'04 16° II 42'10 26° II 29'29 0° II 3'05 0° Ω	2°19'49 2°18'30 19°17'37 -0.7m	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	15887 Apr 17 09:48 15887 Apr 30 07:35 15887 May 06 13:54 15887 May 06 15:59 15887 May 10 16:05 15887 May 12 11:31 15887 May 12 09:26 15887 May 16 04:27 15887 May 18 05:54 15887 May 21 10:12 15887 May 26 22:08 15887 May 27 22:26 15887 Jun 08 08:15 15887 Jun 17 05:27	5° Π47'04 13° Π09'22 10° Π37'09 10° Π32'50 6° Π21'26 4° Π08'16 4° Π14'39 30° R8 28° 825'08 27° 828'06 0° Π 0° Π55'35 16° Π08'25 0° ©	0.66972 AU 1°41'27 1°40'06
evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist.	15886 May 16 21:52 15886 May 19 18:46 15886 May 22 17:59 15886 May 27 02:30 15886 May 28 08:58 15886 May 28 06:50 15886 Jun 02 20:02 15886 Jun 06 10:57 15886 Jun 13 11:59 15886 Jun 21 11:13 15886 Jun 23 22:21 15886 Jun 26 04:46 15886 Jul 07 23:45 15886 Jul 13 16:19 15886 Jul 20 20:00	28° Π23'56 26° Π31'09 21° Π40'00 20° Π00'26 20° Π07'25 14° Π06'21 12° Π51'04 16° Π42'10 26° Π29'29 0° 3° \$19'20 21° \$13'05 0° \$\alpha\$ 11° \$\alpha\$08'56	2°19'49 2°18'30 19°17'37 -0.7m 1.45419 AU -2°10'38	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set	15887 Apr 17 09:48 15887 Apr 30 07:35 15887 May 06 13:54 15887 May 06 15:59 15887 May 10 16:05 15887 May 12 11:31 15887 May 12 09:26 15887 May 16 04:27 15887 May 18 05:54 15887 May 21 10:12 15887 May 26 22:08 15887 May 27 22:26 15887 Jun 08 08:15 15887 Jun 17 05:27 15887 Jun 17 19:31	5° \(\Pi 47'04 \) 13° \(\Pi 09'22 \) 10° \(\Pi 37'09 \) 10° \(\Pi 32'50 \) 6° \(\Pi 21'26 \) 4° \(\Pi 08'16 \) 4° \(\Pi 14'39 \) 30° \(\Red \text{25'08} \) 27° \(\Red 28'06 \) 0° \(\Pi 55'35 \) 16° \(\Pi 08'25 \) 0° \(\Red \text{50'08} \) 0° \(\Red 55'20 \)	0.66972 AU 1°41'27 1°40'06 18°30'14

max. Earth dist.	15887 Jul 03 15:16	25°9641'14	1.45970 AU	evening rise	15888 Jun 28 06:53	0° Ω 09'30	
man. Barur alou	15887 Jul 06 09:39	0°Ω	1.10370110	evening rise	15888 Jun 28 04:24	0°Ω	
evening rise	15887 Jul 19 11:23	20° Ω 30′02		greatest brilliancy	15888 Jul 11 15:17	20° Ω 22'40	-0.7m
•	15887 Jul 25 12:01	0° m			15888 Jul 18 12:10	0° m	
greatest brilliancy	15887 Jul 27 20:47	3°M/41'54	-0.8m	asc. node	15888 Jul 19 12:19	1° M 17'04	
asc. node	15887 Aug 02 15:34	12°M 26'53		evening max el	15888 Jul 23 09:39	5°M/41'56	19°30'50
evening max el	15887 Aug 10 01:49	21° m 49'53	18°44'16	retrograde	15888 Jul 30 14:10	9° ™ 42'24	
retrograde	15887 Aug 16 16:25	25° Mp 25'05		evening set	15888 Aug 03 07:01	8° Mg 22'59	
evening set	15887 Aug 19 23:19	24° Tp 23'13		inferior conj	15888 Aug 08 15:50	2°m/29'06	
inferior conj	15887 Aug 25 13:57	18° m 42'20	2°31'11	minimum elong	15888 Aug 08 17:17	2°M)24'18	2°55'03
minimum elong	15887 Aug 25 16:06	18° Tp 35'39	2°30'28	min. Earth dist.	15888 Aug 09 22:00	0° mp 49'18	0.67527 AU
min. Earth dist.	15887 Aug 27 10:12	16° m 24'49	0.66063 AU		15888 Aug 10 13:13	30°R€	
morning rise	15887 Aug 31 07:51	12° Mp 16'34		morning rise	15888 Aug 14 02:59	26° Ω 02'53	
desc. node	15887 Sep 04 05:58	10° Mp 00'14		direct	15888 Aug 20 00:10	23° Ω 29'53	
direct	15887 Sep 06 14:48	9° Mp 38'49	26°38'16	desc. node	15888 Aug 21 03:22	23° № 34'56 0° ™	
morning max el	15887 Sep 19 17:25 15887 Sep 30 06:44	17°Mp24'19 0°Ω	20 38 10	morning max el	15888 Aug 31 09:35 15888 Sep 01 04:26	0°Mg 46'51	25°22'30
	15887 Oct 19 14:20	0° ™		morning max er	15888 Sep 23 05:37	0∘ ⊽	23 22 30
morning set	15887 Oct 15 14:20	10°M50'37		morning set	15888 Oct 07 01:55	0 = 23° Ω 07'01	
max. Earth dist.	15887 Oct 29 12:20	18°M33'41	1.34211 AU	max. Earth dist.	15888 Oct 10 15:08	29° 2 37'57	1.36285 AU
asc. node	15887 Oct 29 17:03	18°M57'08	1.54211710	max. Earth dist.	15888 Oct 10 19:50	0° ™	1.50205710
use. Houe	13007 000 25 17.03	10 11057 00		asc. node	15888 Oct 15 13:47	9°M07'42	
superior conj	15887 Nov 03 09:01	28°M28'06	0°41'45	use. noue	10000 000 10 10.17	, 110-07-12	
minimum elong	15887 Nov 03 07:00	28°M17'36	0°42'02	superior conj	15888 Oct 16 23:46	11° M 56'01	0°12'50
č	15887 Nov 04 02:36	0° ∡ ¹		minimum elong	15888 Oct 16 22:58	11°M52'03	0°13'10
evening rise	15887 Nov 10 17:18	13° ₹ 59'02		behind sun begin	15888 Oct 16 19:17	11° M 33'41	
•	15887 Nov 18 18:59	ರ°0		behind sun end	15888 Oct 17 02:40	12°M10'27	
evening max el	15887 Nov 30 09:54	16° පි 28'31	21°17'13	evening rise	15888 Oct 24 23:37	28°M12'10	
desc. node	15887 Dec 01 03:22	17° る 10'16			15888 Oct 25 20:48	0° ∡ ¹	
retrograde	15887 Dec 12 07:39	22° る 21'58		evening max el	15888 Nov 11 13:52	27° ∡ 14'58	19°56'00
evening set	15887 Dec 15 03:33	22° る 03'26			15888 Nov 14 20:09	0° ප	
inferior conj	15887 Dec 23 21:18	18° る 12'49	-5°47'11	desc. node	15888 Nov 17 00:28	1° る 15'29	
minimum elong	15887 Dec 23 14:58	18° る 21'45	5°45'34	retrograde	15888 Nov 21 20:55	2° る 22'59	
min. Earth dist.	15887 Dec 24 10:04	17° る 54'50	0.54403 AU	evening set	15888 Nov 23 22:42	2° る 11'28	
morning rise	15888 Jan 01 02:42	14° る 22'33			15888 Nov 29 15:36	30°Ŗ ⋌ ¹	
direct	15888 Jan 05 02:12	13° る 48'18		inferior conj	15888 Dec 02 17:14	28° х 12′13	
morning max el	15888 Jan 17 23:40	20° ろ 04'20	22°40'05	minimum elong	15888 Dec 02 07:11	28° ₹ 27'32	
asc. node	15888 Jan 25 16:12	29° る 19'59		min. Earth dist.	15888 Dec 04 16:49	26° ₹ 59'42	0.55017 AU
. ,	15888 Jan 26 03:09	0°≈		morning rise	15888 Dec 10 14:29	24° × ⁷ 02'19	
morning set	15888 Feb 09 04:19 15888 Feb 11 01:32	25°≈58'16 0°) €		direct	15888 Dec 15 14:48 15888 Dec 29 09:44	23°メ07'20 0°る	
	13888 FEU 11 01.32	υ χ		morning max el	15888 Dec 29 09:44 15888 Dec 29 08:19	0 ℃ 29° х 56'36	24920107
superior conj	15888 Feb 16 03:54	10° ¥ 57'59	1°22'34	asc. node	15889 Jan 11 13:27	29 x 30 30 17°る17'35	24 3007
minimum elong	15888 Feb 16 06:02	10 X 37 39	1°22'41	asc. node	15889 Jan 18 12:44	0° ≈	
max. Earth dist.	15888 Feb 19 17:39	18°) 28'40	1.33696 AU	morning set	15889 Jan 23 16:18	10° ≈ 40'28	
evening rise	15888 Feb 24 06:11	27° ¥ 34'16	1.55070710	morning sec	1300) 3411 23 10.10	10 /0/10 20	
	15888 Feb 25 12:18	0°Υ		superior conj	15889 Jan 30 10:51	25° ≈ 30'30	1°33'18
desc. node	15888 Feb 27 03:57	3° Y '07'59		minimum elong	15889 Jan 30 12:10	25° ≈ 37'39	1°33'45
	15888 Mar 14 07:28	0°8		max. Earth dist.	15889 Feb 01 16:46	0°) 24′00	1.32298 AU
evening max el	15888 Mar 29 23:33	19° 8 24'40	27°09'22		15889 Feb 01 12:20	0° ∀	
retrograde	15888 Apr 12 11:23	26° 8 55'54		evening rise	15889 Feb 06 21:55	11°) €21'30	
evening set	15888 Apr 19 01:45	24° 8 24'52		desc. node	15889 Feb 13 00:34	23° ¥ 13'49	
asc. node	15888 Apr 22 13:14	21° 8 09'07			15889 Feb 16 19:12	$0^{\circ}\Upsilon$	
min. Earth dist.	15888 Apr 22 23:11	20° 8 42'04	0.65375 AU		15889 Mar 09 22:04	0° 8	
inferior conj	15888 Apr 25 07:12	18° 8 04'21	0°50'35	evening max el	15889 Mar 12 11:59	2° 8 37'25	27°34'29
minimum elong	15888 Apr 25 05:53	18° 8 08'03	0°49'33	retrograde	15889 Mar 26 08:00	10° 8 07'41	
morning rise	15888 May 01 11:42	12° 8 33'59		evening set	15889 Apr 02 03:10	7° 8 44'38	
direct	15888 May 04 06:27	11° 8 52'36		min. Earth dist.	15889 Apr 05 21:49	4° 8 30'55	0.63430 AU
morning max el	15888 May 10 13:46	15° 8 08'52	17°59'44	inferior conj	15889 Apr 08 17:06	1° 8 40'32	
	15888 May 21 09:51	0°П		minimum elong	15889 Apr 08 17:32	1° 8 39'24	
desc. node	15888 May 25 05:13	6°∏08'55		transit middle	15889 Apr 08 17:32	1° 8 39'24	0°14'02
morning set	15888 May 28 17:56	11° ∏ 55'07		transit begin	15889 Apr 08 16:02	1° 8 43'16	
	15888 Jun 08 22:25	0ಂಪ		transit end	15889 Apr 08 19:03	1° 8 35'33	
superior cori	15000 Jun 12 04.26	50500143	105/1/12	asc. node	15889 Apr 09 10:32	0° ႘ 56'31 30°ℝ ϓ	
superior conj minimum elong	15888 Jun 12 04:36 15888 Jun 11 20:15	5°509'42 4°536'47		morning rise	15889 Apr 10 09:39 15889 Apr 15 10:26	30°₹¹ 26° Y 25'22	
max. Earth dist.	15888 Jun 15 11:28	10°©19'28	1.45775 AU	direct	15889 Apr 15 10:26 15889 Apr 17 20:48	26° γ 25'22 25° γ 56'31	
man. Durin dist.	25000 Juli 15 11.20	10 -1720	1.15/75 AU	uncot	15007 Apr 17 20.40	20 10001	

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26°\mathbf{1}9'07 18°15'39

15891 Mar 22 12:15

morning max el

0°8

15890 Apr 19 13:13

	15891 Mar 25 16:50	0°Υ		minimum elong	15892 Feb 14 10:49	8°){ 42'23	4°25'35
morning set	15891 Apr 07 04:28	21°Υ13'50		morning rise	15892 Feb 22 13:17	4° ¥ 43'26	4 23 33
morning sec	15891 Apr 11 20:10	0°8		direct	15892 Feb 24 13:56	4°) (31'04	
desc. node	15891 Apr 15 19:33	7° 8 20'32		asc. node	15892 Feb 29 02:41	5°) 36'47	
	1	_		morning max el	15892 Mar 04 15:51	8° ¥ 57'37	19°00'48
superior conj	15891 Apr 16 17:46	9° 8 01'22	-0°07'41	C	15892 Mar 18 07:03	0° Υ	
minimum elong	15891 Apr 16 17:08	8° 8 58'32	0°08'01	morning set	15892 Mar 21 03:19	5° Υ 32'54	
behind sun begin	15891 Apr 16 10:38	8° 8 29'06		C			
behind sun end	15891 Apr 16 23:38	9° 8 27'54		superior conj	15892 Mar 29 15:02	22° Y ′08'51	0°25'27
max. Earth dist.	15891 Apr 24 07:55	22° 8 19'01	1.41272 AU	minimum elong	15892 Mar 29 16:36	22° Y 16'17	0°24'58
	15891 Apr 28 22:52	Π $^{\circ}0$		desc. node	15892 Apr 01 16:13	27° Y ′53'15	
evening rise	15891 Apr 29 00:04	0° Ⅱ 04'50			15892 Apr 02 19:42	$0^{\circ}B$	
	15891 May 18 20:19	0 \circ \odot		max. Earth dist.	15892 Apr 05 14:27	5° 8 01'43	1.39012 AU
evening max el	15891 Jun 01 23:21	17° 5 23'06	23°05'21	evening rise	15892 Apr 09 09:58	11° 8 41'30	
asc. node	15891 Jun 10 02:58	23° © 07'10			15892 Apr 20 17:25	Π $^{\circ}0$	
retrograde	15891 Jun 12 08:01	23° © 28'19			15892 May 13 06:26	0 \circ \odot	
evening set	15891 Jun 17 10:02	21° © 18'52		evening max el	15892 May 14 13:09	1° © 18'12	24°26'33
inferior conj	15891 Jun 22 17:46	14° © 54'29	2°57'22	retrograde	15892 May 26 01:04	8° © 01'35	
minimum elong	15891 Jun 22 16:28	14° © 58'58	2°56'25	asc. node	15892 May 27 00:04	7° © 57'40	
min. Earth dist.	15891 Jun 22 07:46	15° © 29'08	0.69087 AU	evening set	15892 May 31 14:37	5° © 40'02	
morning rise	15891 Jun 27 22:50	8° © 45'23		min. Earth dist.	15892 Jun 05 03:33	0° © 27'27	0.68637 AU
direct	15891 Jul 02 07:57	6°\$59'05			15892 Jun 05 11:44	30°RⅡ	
morning max el	15891 Jul 10 20:30	11°553'16	21°03'33	inferior conj	15892 Jun 06 02:27	29° Ⅱ 10'30	
desc. node	15891 Jul 12 19:18	13°956'40		minimum elong	15892 Jun 06 00:31	29° Ⅱ 16'58	2°35'28
	15891 Jul 25 01:53	0°N		morning rise	15892 Jun 11 10:33	23° Ⅱ 10'21	
morning set	15891 Aug 10 09:41	24° Ω 28'40		direct	15892 Jun 15 07:56	21° Ⅱ 43'46	10051150
Earth diet	15891 Aug 13 21:54	0°M) (°™22!27	1 42151 ATT	morning max el	15892 Jun 22 19:52	25° ∏ 54'35 0° ©	19°51'58
max. Earth dist.	15891 Aug 17 21:15	0°111/22'27	1.43151 AU	desc. node	15892 Jun 26 12:18 15892 Jun 28 16:29	2° © 44'43	
superior conj	15891 Aug 24 23:43	18° Mp 08'16	1022152	desc. node	15892 Jul 17 09:35	2 944 43 0°Ω	
minimum elong	15891 Aug 24 25:45 15891 Aug 25 07:05	18° Mp 39'24		morning set	15892 Jul 17 09:35	3° Ω 22'11	
minimum ciong	15891 Aug 23 07:03	0° ∪	1 32 14	max. Earth dist.	15892 Jul 19 14.23 15892 Jul 30 10:13	20°Ω13'43	1.44782 AU
evening rise	15891 Sep 05 17:19	% <u>~</u> 38'19		max. Earth dist.	13072 341 30 10.13	20 0015 45	1.44702710
asc. node	15891 Sep 06 03:44	9° £ 24'48		superior conj	15892 Aug 04 12:36	28° Ω 22'41	-2°00'51
uov. nouv	15891 Sep 18 12:45	0° M		minimum elong	15892 Aug 04 19:42	28° Ω 51'22	
evening max el	15891 Sep 22 01:05	4°M10'37	18°02'46		15892 Aug 05 12:40	0° m)	
retrograde	15891 Sep 28 18:57	7° M 39'01		evening rise	15892 Aug 18 00:43	20° m/46'36	
evening set	15891 Oct 01 03:07	7°M13'57		asc. node	15892 Aug 23 00:24	29° m 12'49	
inferior conj	15891 Oct 08 00:18	2°M15'01	0°12'30		15892 Aug 23 11:39	0∘ ⊽	
minimum elong	15891 Oct 08 00:42	2°M14'03	0°12'42	evening max el	15892 Sep 04 15:52	17° ≏ 34'16	18°04'53
transit middle	15891 Oct 08 00:42	2°M14'03	0°12'42	retrograde	15892 Sep 11 01:08	20° ჲ 54'39	
transit begin	15891 Oct 07 22:40	2°M18'53		evening set	15892 Sep 13 17:45	20° ≏ 17'12	
transit end	15891 Oct 08 02:44	2°M09'12		inferior conj	15892 Sep 20 00:19	15° ≙ 00'10	1°20'58
desc. node	15891 Oct 08 16:17	1°M36'51		minimum elong	15892 Sep 20 02:20	14° ≙ 54'46	1°20'25
	15891 Oct 10 09:00	30° ₹ Ω		min. Earth dist.	15892 Sep 22 17:37	12° ≏ 05'29	0.62996 AU
min. Earth dist.	15891 Oct 11 03:27	29° ≙ 17'31	0.60731 AU	desc. node	15892 Sep 24 13:39	10° ≏ 17'59	
morning rise	15891 Oct 14 19:12	26° ≏ 23'49		morning rise	15892 Sep 26 08:43	8° ≏ 48'46	
direct	15891 Oct 21 10:47	24° £ 12'47		direct	15892 Oct 03 00:49	6° Ω 20'37	
	15891 Nov 02 10:32	0°M,		morning max el	15892 Oct 17 00:22	14° ≏ 19'20	27°51'50
morning max el	15891 Nov 04 16:25	2°M05'31	27°56'31		15892 Oct 29 17:55	0° ™	
1	15891 Nov 25 02:28	0° 🔏		1	15892 Nov 16 16:24	0° √ ¹	
asc. node	15891 Dec 03 04:43	14° 🖈 47'26		asc. node	15892 Nov 19 01:40	4° × ⁷ 39'46	
morning set	15891 Dec 07 15:12	23° ₹ 46'30		morning set	15892 Nov 20 11:54	7° x ⁷ 31'40	1 21022 ATT
Earth diet	15891 Dec 10 13:21	0°る (° そ 27/22	1 21102 ATT	max. Earth dist.	15892 Nov 25 13:44	18° ∡ ′08'53	1.31922 AU
max. Earth dist.	15891 Dec 13 12:00	6° る 27'22	1.31183 AU	aumarian aami	15002 Nov. 20 02:27	23° х 44'53	1°15'27
superior conj	15891 Dec 14 19:19	9° る 21'24	1°28'59	superior conj minimum elong	15892 Nov 28 03:37 15892 Nov 28 01:23	23° x '44'33	1°15′27 1°15′56
minimum elong	15891 Dec 14 17:39	9° ろ 12'06	1°29'37	minimum ciong	15892 Nov 30 23:50	23 x・3233	1 13 30
evening rise	15891 Dec 21 11:51	9 81200 24° 8 09'42	1 4/3/	evening rise	15892 Nov 30 23:30 15892 Dec 04 22:33	8° る 38'05	
. , ching 1150	15891 Dec 24 05:50	24 ⊙ 0942 0° ≈		0,0111115 1150	15892 Dec 04 22:33 15892 Dec 15 19:27	0°≈	
desc. node	15892 Jan 04 14:49	0 ∞ 21°≈01'57		desc. node	15892 Dec 21 11:42	8° ≈ 53'11	
	15892 Jan 10 18:51	0°) €		evening max el	15892 Dec 29 04:14	18° ≈ 01'35	23°55'35
evening max el	15892 Jan 17 17:07	7° ¥ 50'58	25°32'51	retrograde	15893 Jan 11 16:34	24° ≈ 43'47	
retrograde	15892 Jan 31 14:50	14°) 50'57		evening set	15893 Jan 16 12:17	23°≈53'24	
evening set	15892 Feb 06 11:14	13°) €32'36		min. Earth dist.	15893 Jan 22 15:44	20°≈53'47	0.55328 AU
min. Earth dist.	15892 Feb 11 05:54		0.56924 AU	inferior conj	15893 Jan 24 12:19	19° ≈ 47'23	
inferior conj	15892 Feb 14 01:31	8° ¥ 58'07	-4°28'37	minimum elong	15893 Jan 24 19:27	19° ≈ 36'45	5°36'18
				•			

morning rise	15893 Feb 02 04:16	15° ≈ 51'04		min. Earth dist.	15894 Jan 03 21:18	0° ≈ 07'06	0.54481 AU
direct	15893 Feb 04 15:47	15° ≈ 35'32			15894 Jan 04 02:23	30°Ŗ₹	
asc. node	15893 Feb 15 00:03	20° ≈ 28′23		morning rise	15894 Jan 12 17:46	26° පි 06'13	
morning max el	15893 Feb 15 06:37	20° ≈ 44′06	20°08'56	direct	15894 Jan 16 02:35	25° る 40'58	
	15893 Feb 22 12:52	0°)			15894 Jan 26 12:33	0° ≈	
morning set	15893 Mar 05 09:02	20°) 08′10		morning max el	15894 Jan 28 06:16	1° ≈ 33'01	21°39'52
	15893 Mar 10 04:29	$0^{\circ}\mathbf{\Upsilon}$		asc. node	15894 Feb 01 21:23	6° ≈ 46′10	
					15894 Feb 15 10:44	0° ∀	
superior conj	15893 Mar 13 02:09	5° Y 52'48	0°52'41	morning set	15894 Feb 17 18:50	4° ¥ 50'49	
minimum elong	15893 Mar 13 04:38	6° Y 05′13	0°52'18				
max. Earth dist.	15893 Mar 18 21:19	17° Ƴ 10'57	1.36752 AU	superior conj	15894 Feb 24 23:18	20° 米 02'06	1°13'31
desc. node	15893 Mar 19 12:52	18° Y 24′05		minimum elong	15894 Feb 25 01:45	20°) 14′54	1°13'25
evening rise	15893 Mar 22 15:21	24° Y 06′49		max. Earth dist.	15894 Mar 01 08:48	29° ∺ 02'41	1.34705 AU
	15893 Mar 25 23:08	0°8			15894 Mar 01 20:17	0° Υ	
	15893 Apr 14 09:02	0°II		evening rise	15894 Mar 05 12:42	7° Υ 10'21	
evening max el	15893 Apr 27 02:48	15° Ⅱ 12'27	25°41'34	desc. node	15894 Mar 06 09:30	8° Y 48'39	
retrograde	15893 May 09 13:35	22° I I23'10			15894 Mar 18 15:35	0° 8	
asc. node	15893 May 13 21:13	21° I 107'33		evening max el	15894 Apr 09 16:35	28° 8 58'31	26°43'03
evening set	15893 May 15 14:12	19° I 53'31	0.67717.411		15894 Apr 10 18:28	0°II	
min. Earth dist.	15893 May 19 19:58	15° I 17'30	0.67717 AU	retrograde	15894 Apr 22 20:44	6° Ⅱ 25'17	
inferior conj	15893 May 21 07:52	13° Ⅲ 23'02 13° Ⅲ 30'01	2°05'01 2°03'40	evening set	15894 Apr 29 06:56	3°Ⅲ52'42 2°Ⅲ34'04	
minimum elong	15893 May 21 05:41	7° П 33'14	2*03*40	asc. node	15894 Apr 30 18:26	2°Д34°04 30°R 8	
morning rise direct	15893 May 26 21:42	6° П 25'47		min Forth dist	15894 May 03 04:00	29° 8 51'36	0.66346 AU
morning max el	15893 May 30 08:04 15893 Jun 06 02:31	0 П 2347 10° П 04'58	18°55'19	min. Earth dist. inferior conj	15894 May 03 06:55 15894 May 05 07:48	29 8 31 36 27° 8 26'48	1°21'31
desc. node	15893 Jun 15 13:35	22° I 08'04	16 33 19	minimum elong	15894 May 05 05:57	27° 8 32'19	1°20'14
greatest brilliancy	15893 Jun 19 11:07		-0.7m	morning rise	15894 May 11 06:10	21° 8 48'59	1 2014
greatest offinalicy	15893 Jun 20 19:50	0°9	-0.7111	direct	15894 May 14 06:22	20° 8 58'51	
morning set	15893 Jun 28 23:18	12° 9 32'25		morning max el	15894 May 20 15:22	24° 8 19'40	18°15'12
morning set	15893 Jul 10 05:12	0°Ω		morning max er	15894 May 25 10:25	0° П	10 13 12
max. Earth dist.	15893 Jul 13 04:24	4° Ω 37'49	1.45755 AU	desc. node	15894 Jun 02 10:35	11° II 57'17	
max. Darm dist.	13073 341 13 01.21	1 0037 19	1.13733110	morning set	15894 Jun 09 05:56	22° I I47'13	
superior conj	15893 Jul 15 05:16	7° Ω 49'01	-2°13'56	morning sev	15894 Jun 13 18:35	0°9	
minimum elong	15893 Jul 15 06:43	7° Ω 54'43					
	15893 Jul 29 04:13	0°m		superior conj	15894 Jun 24 14:14	17°501'40	-2°07'11
evening rise	15893 Jul 30 08:39	1° m 54'39		minimum elong	15894 Jun 24 08:11	16° © 38'02	2°07'42
asc. node	15893 Aug 09 21:04	18° m 43'50		max. Earth dist.	15894 Jun 26 01:01	19°517'24	1.45983 AU
	15893 Aug 18 01:37	0∘ ⊽			15894 Jul 02 22:09	$0^{\circ}\Omega$	
evening max el	15893 Aug 19 06:01	1° ≏ 14'30	18°24'56	evening rise	15894 Jul 10 15:53	12° Ω 02′10	
retrograde	15893 Aug 25 16:03	4° £ 40′26		greatest brilliancy	15894 Jul 21 07:38	28° Ω 29'47	-0.8m
evening set	15893 Aug 28 17:41	3° £ 47'52			15894 Jul 22 07:32	0° m)	
	15893 Sep 02 00:59	30°R Mp		asc. node	15894 Jul 27 17:46	7° m 51'40	
inferior conj	15893 Sep 03 13:06	28° m 14'58	2°10'25	evening max el	15894 Aug 02 16:43	15° m 04'09	19°02'03
minimum elong	15893 Sep 03 15:26	28°M/08'02	2°09'40	retrograde	15894 Aug 09 12:16	18° m) 48'42	
min. Earth dist.	15893 Sep 05 17:16	25° Mp 40'22	0.65042 AU	evening set	15894 Aug 12 23:20	17° m 39'22	
morning rise	15893 Sep 09 11:50	21° m 52'23		inferior conj	15894 Aug 18 11:05	11° m 52'30	2°43'16
desc. node	15893 Sep 11 11:04	20° m 30'42		minimum elong	15894 Aug 18 12:59	11° Mp 46'25	2°42'35
direct	15893 Sep 15 23:09	19° m 15'54		min. Earth dist.	15894 Aug 20 01:13	9° m 50'21	0.66739 AU
morning max el	15893 Sep 29 11:14	27° m/09'33	27°13'02	morning rise	15894 Aug 24 01:51	5° M) 25'54	
	15893 Oct 02 03:31	0∘ ⊽		desc. node	15894 Aug 29 08:28	2° m 52'22	
	15893 Oct 23 10:00	0°M		direct	15894 Aug 30 04:47	2° Mp 49'35	2 (000010.4
morning set	15893 Nov 03 22:58	20°M48'21		morning max el	15894 Sep 11 22:51	10° m 24'42	26°08'04
asc. node	15893 Nov 05 22:30	24°M42'37	1 22227 ATT		15894 Sep 27 12:32	ი∘ ო 0∘ ত	
max. Earth dist.	15893 Nov 08 07:24	29° M .30'41 0° ∡'	1.33227 AU	mamina aat	15894 Oct 15 23:24	0°ጤ 3°ጤ29'39	
	15893 Nov 08 13:07	0 X.		morning set max. Earth dist.	15894 Oct 17 21:09	10°M37'22	1.35049 AU
superior conj	15893 Nov 12 07:10	7° ∡ 751'47	0°55'48	asc. node	15894 Oct 21 15:23 15894 Oct 23 19:16	10 IIL3/22 14°ML51'44	1.55047 AU
minimum elong	15893 Nov 12 07:10 15893 Nov 12 04:52	7° × 3147	0°56'08	450. HOUC	15077 001 25 17.10	17 IIUJI 111	
evening rise	15893 Nov 12 04.32 15893 Nov 19 09:07	7 x 3930 23° x 04′28	3 30 00	superior conj	15894 Oct 27 03:26	21°M35'59	0°30'09
- ,	15893 Nov 22 16:35	23×0428		minimum elong	15894 Oct 27 01:49	21°M27'42	0°30'26
desc. node	15893 Dec 08 08:41	25° ප 34'52			15894 Oct 31 04:40	21 11027 42 0° ₹ ⁷	3 3 3 20
evening max el	15893 Dec 10 14:42	27° ろ 57'33	22°12'17	evening rise	15894 Nov 03 17:38	7° ∡ 724'14	
	15893 Dec 10 11:12	0°≈			15894 Nov 15 20:43	0°る	
retrograde	15893 Dec 23 06:11	4° ≈ 12'52		evening max el	15894 Nov 22 10:22	8° る 17'33	20°40'00
evening set	15893 Dec 26 18:59	3° ≈ 45'17		desc. node	15894 Nov 25 05:43	10° පි 44'19	
inferior conj	15894 Jan 04 07:05	29° る 53'25	-6°01'30	retrograde	15894 Dec 03 16:22	13° る 52'52	
minimum elong	15894 Jan 04 05:53	29° ප් 55'05		evening set	15894 Dec 06 02:39	13° る 38'25	
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: <i>£</i> :	15004 Dec 14 22:17	00=45112	5022140		15005 N 14 11.17	249.71406	
inferior conj minimum elong	15894 Dec 14 22:17 15894 Dec 14 13:23	9°る45'12 9°る58'02		retrograde evening set	15895 Nov 14 11:17 15895 Nov 16 09:30	24° ₹ 14'06 24° ₹ 03'23	
min. Earth dist.	15894 Dec 14 13.25 15894 Dec 16 02:45	9° ろ 04'04	0.54552 AU	inferior conj		19° x 57'20	2057146
morning rise	15894 Dec 23 00:00	9 3 04 04 5° る 48'57	0.54552 AU	minimum elong	15895 Nov 25 00:28 15895 Nov 24 15:04	20° × 12'30	
direct	15894 Dec 27 10:17	5° る 06'49		min. Earth dist.		18° $\sqrt{22'}$ 16	0.55536 AU
morning max el	15895 Jan 09 18:06	3 00049 11° る 37'47	22926150		15895 Nov 27 11:28	15° x 33'34	0.33330 AU
Č		24° る 12'05	23°20'39	morning rise	15895 Dec 02 18:34		
asc. node	15895 Jan 19 18:40 15895 Jan 23 07:21	24° ⊙ 12'05 0° ≈		direct	15895 Dec 08 03:42	14° х 28'17 21° х 30'26	25015105
mamina sat	15895 Feb 02 06:31	0 ≈ 19°≈34'42		morning max el	15895 Dec 22 02:51	21 x・30 26	23 13 03
morning set				1	15895 Dec 29 12:07		
	15895 Feb 07 01:57	0° \		asc. node	15896 Jan 06 15:52	12° る 29'55	
	15005 E 1 00 02 25	4° ¥ 28'21	1027154	. ,	15896 Jan 15 18:24	0°≈ 40××1.4155	
superior conj	15895 Feb 09 03:25		1°27'54	morning set	15896 Jan 17 18:18	4° ≈ 14'55	
minimum elong	15895 Feb 09 05:14	4°) €38'13	1°28'09		15006 X 24 12 01	100 0445	102 (100
max. Earth dist.	15895 Feb 12 03:24	10°) € 52'56	1.33037 AU	superior conj	15896 Jan 24 12:01	19° ≈ 04'45	1°36'00
evening rise	15895 Feb 16 22:35	20°) 43'41		minimum elong	15896 Jan 24 12:54	19° ≈ 09'37	1°36'33
desc. node	15895 Feb 21 06:07	29°)(02'42		max. Earth dist.	15896 Jan 26 05:08	22°≈51'03	1.31843 AU
	15895 Feb 21 18:26	0° Υ			15896 Jan 29 12:35	0°) {	
	15895 Mar 12 13:51	0°8		evening rise	15896 Jan 31 18:02	4°) 39′52	
evening max el	15895 Mar 23 05:43	12° 8 26'00	27°23'31	desc. node	15896 Feb 08 02:45	19° ∺ 01'23	
retrograde	15895 Apr 05 21:37	19° 8 58'24			15896 Feb 14 10:44	0° Υ	
evening set	15895 Apr 12 14:40	17° 8 29'30		evening max el	15896 Mar 04 16:46	25° Y ′24'12	27°36'01
min. Earth dist.	15895 Apr 16 10:28	14° 8 00'01	0.64580 AU		15896 Mar 10 08:36	0°8	
asc. node	15895 Apr 17 15:43	12° 8 41'54		retrograde	15896 Mar 18 15:16	2° 8 53'04	
inferior conj	15895 Apr 18 23:40	11° 8 15'00	0°24'56	evening set	15896 Mar 25 10:56	0° 8 35'31	
minimum elong	15895 Apr 18 22:58	11° 8 16'52	0°24'11		15896 Mar 26 07:05	30° ₹Ƴ	
morning rise	15895 Apr 25 09:21	5° 8 51'07		min. Earth dist.	15896 Mar 29 05:07	27° Ƴ 32'19	0.62512 AU
direct	15895 Apr 28 00:20	5° 8 15'33		inferior conj	15896 Apr 01 04:27	24° Y '40'32	-0°45'21
morning max el	15895 May 04 08:03	8° 8 30'34	17°52'07	minimum elong	15896 Apr 01 05:58	24° Y 36'51	0°44'59
	15895 May 19 01:34	Π $^{\circ}0$		asc. node	15896 Apr 03 13:02	22° Y 29'19	
desc. node	15895 May 20 07:29	2° Ⅲ 04'41		morning rise	15896 Apr 08 03:57	19° Ƴ 32'55	
morning set	15895 May 21 15:58	4° Ⅲ 20′07		direct	15896 Apr 10 11:03	19° Ƴ 08'30	
				morning max el	15896 Apr 17 01:42	22° Y ′29'23	17°46'31
superior conj	15895 Jun 04 08:30	26° Ⅱ 44'27	-1°42'27		15896 Apr 22 23:10	0° ႘	
minimum elong	15895 Jun 03 23:50	26° Ⅲ 09'51	1°42'24	morning set	15896 May 03 02:13	17° 8 01'25	
	15895 Jun 06 09:40	0 \circ \odot		desc. node	15896 May 06 04:18	22° 8 24'58	
max. Earth dist.	15895 Jun 08 20:51	3° © 53'36	1.45461 AU		15896 May 10 13:50	$\Pi^{\circ}0$	
evening rise	15895 Jun 20 05:32	21° 5 29'50					
	15895 Jun 25 19:42	$0^{\circ}\Omega$		superior conj	15896 May 14 23:38	7° Ⅲ 25'58	-1°07'05
greatest brilliancy	15895 Jul 04 23:20	13° Ω 35'39	-0.6m	minimum elong	15896 May 14 17:22	6° Ⅱ 59'52	1°06'55
asc. node	15895 Jul 14 14:33	26° Ω 27'30		max. Earth dist.	15896 May 21 13:57	18° Ⅱ 12'34	1.44254 AU
evening max el	15895 Jul 16 22:02	28° Ω 57'11	19°55'10		15896 May 29 01:44	0 \circ \mathfrak{S}	
	15895 Jul 18 00:33	o°mp		evening rise	15896 May 29 17:25	1°500'33	
retrograde	15895 Jul 24 10:54	3° mp 12'26			15896 Jun 18 10:10	$0^{\circ}\Omega$	
evening set	15895 Jul 28 08:05	1° Mp 45'29		evening max el	15896 Jun 28 21:23	12° Ω 51'13	21°02'01
	15895 Jul 30 06:06	30° ₽ Ω		asc. node	15896 Jun 30 11:23	14° Ω 20'35	
inferior conj	15895 Aug 02 15:19	25° Ω 46'14	3°02'05	retrograde	15896 Jul 07 09:52	17° Ω 46'16	
minimum elong	15895 Aug 02 16:24	25° Ω 42'37	3°01'27	evening set	15896 Jul 11 17:52	16° Ω 01'48	
min. Earth dist.	15895 Aug 03 15:33	24° Ω 24'26	0.68011 AU	inferior conj	15896 Jul 16 23:24	9° Ω 51'32	3°08'46
morning rise	15895 Aug 08 00:16	19° Ω 20'51		minimum elong	15896 Jul 16 23:31	9° Ω 51'08	3°08'06
direct	15895 Aug 13 16:34	16° Ω 52'07		min. Earth dist.	15896 Jul 17 10:07	9° Ω 14'20	0.68817 AU
desc. node	15895 Aug 16 05:52	17° Ω 17'48		morning rise	15896 Jul 22 04:54	3° £ 30′56	
morning max el	15895 Aug 25 09:51	23° Ω 53′20	24°46'18	direct	15896 Jul 27 09:25	1° Ω 15'45	
Ü	15895 Aug 30 20:54	0° m/		desc. node	15896 Aug 02 03:14	3° Ω 25′01	
	15895 Sep 20 21:42	0∘ <u>v</u>		morning max el	15896 Aug 06 20:58	7° Ω 30'05	23°17'24
morning set				C			
•	-	15° ≏ 26'12			15896 Aug 24 10:42	0° m/	
max. Earth dist.	15895 Sep 30 02:29	15° £ 26'12 21° £ 46'53	1.37267 AU	morning set	15896 Aug 24 10:42 15896 Sep 10 10:45	0° Mp 26° Mp 28′02	
max. Earth dist.	15895 Sep 30 02:29 15895 Oct 03 15:31	21° ≏ 46'53	1.37267 AU	morning set	15896 Sep 10 10:45	26° Mp 28'02	
max. Earth dist.	15895 Sep 30 02:29		1.37267 AU	-	15896 Sep 10 10:45 15896 Sep 12 13:09	26° m 28′02 0° <u>Ω</u>	1.39675 AU
	15895 Sep 30 02:29 15895 Oct 03 15:31 15895 Oct 08 01:14	21° ≏ 46'53		morning set max. Earth dist.	15896 Sep 10 10:45	26° m 28′02 0° <u>Ω</u>	1.39675 AU
superior conj	15895 Sep 30 02:29 15895 Oct 03 15:31 15895 Oct 08 01:14 15895 Oct 10 13:18	21° £ 46'53 0° M 4° M 49'49	-0°01'00	max. Earth dist.	15896 Sep 10 10:45 15896 Sep 12 13:09 15896 Sep 14 14:02	26° m 28'02 0° Ω 3° Ω 29'12	
superior conj minimum elong	15895 Sep 30 02:29 15895 Oct 03 15:31 15895 Oct 08 01:14 15895 Oct 10 13:18 15895 Oct 10 13:20	21° Ω 46'53 0° M 4° M 49'49 4° M 49'59	-0°01'00	max. Earth dist.	15896 Sep 10 10:45 15896 Sep 12 13:09 15896 Sep 14 14:02 15896 Sep 22 08:55	26° № 28'02 0° Ω 3° Ω 29'12 17° Ω 24'28	-0°36'18
superior conj minimum elong behind sun begin	15895 Sep 30 02:29 15895 Oct 03 15:31 15895 Oct 08 01:14 15895 Oct 10 13:18 15895 Oct 10 13:20 15895 Oct 10 06:43	21° \dolda 46'53 0° \dolda 4° \dolda 49'49 4° \dolda 49'59 4° \dolda 17'45	-0°01'00	max. Earth dist. superior conj minimum elong	15896 Sep 10 10:45 15896 Sep 12 13:09 15896 Sep 14 14:02 15896 Sep 22 08:55 15896 Sep 22 11:38	26° m 28'02 0° Ω 3° Ω 29'12 17° Ω 24'28 17° Ω 37'03	-0°36'18
superior conj minimum elong behind sun begin behind sun end	15895 Sep 30 02:29 15895 Oct 03 15:31 15895 Oct 08 01:14 15895 Oct 10 13:18 15895 Oct 10 13:20 15895 Oct 10 06:43 15895 Oct 10 19:56	21° \(\Omega\) 46'53 0° \(\mathref{m}\) 4° \(\mathref{m}\) 49'49 4° \(\mathref{m}\) 49'59 4° \(\mathref{m}\) 17'45 5° \(\mathref{m}\) 22'17	-0°01'00	max. Earth dist.	15896 Sep 10 10:45 15896 Sep 12 13:09 15896 Sep 14 14:02 15896 Sep 22 08:55 15896 Sep 22 11:38 15896 Sep 26 12:37	26° № 28'02 0° Ω 3° Ω 29'12 17° Ω 24'28 17° Ω 37'03 25° Ω 12'22	-0°36'18
superior conj minimum elong behind sun begin behind sun end asc. node	15895 Sep 30 02:29 15895 Oct 03 15:31 15895 Oct 08 01:14 15895 Oct 10 13:18 15895 Oct 10 13:20 15895 Oct 10 06:43 15895 Oct 10 19:56 15895 Oct 10 15:58	21° \$\Omega 46'53\$ 0° \$\mathbb{M}\$. 4° \$\mathbb{M}\$.49'59\$ 4° \$\mathbb{M}\$.17'45\$ 5° \$\mathbb{M}\$.22'17\$ 5° \$\mathbb{M}\$.02'54	-0°01'00	max. Earth dist. superior conj minimum elong asc. node	15896 Sep 10 10:45 15896 Sep 12 13:09 15896 Sep 14 14:02 15896 Sep 22 08:55 15896 Sep 22 11:38 15896 Sep 26 12:37 15896 Sep 29 00:40	26° № 28'02 0° Ω 3° Ω 29'12 17° Ω 24'28 17° Ω 37'03 25° Ω 12'22 0° M.	-0°36'18
superior conj minimum elong behind sun begin behind sun end	15895 Sep 30 02:29 15895 Oct 03 15:31 15895 Oct 08 01:14 15895 Oct 10 13:18 15895 Oct 10 13:20 15895 Oct 10 06:43 15895 Oct 10 06:43 15895 Oct 10 15:58 15895 Oct 10 15:58	21° \(\Omega\) 46'53 0° \(\mathbb{m}\). 4° \(\mathbb{m}\) 49'49 4° \(\mathbb{m}\) 17'45 5° \(\mathbb{m}\) 22'17 5° \(\mathbb{m}\) 02'54 21° \(\mathbb{m}\) 31'19	-0°01'00	max. Earth dist. superior conj minimum elong	15896 Sep 10 10:45 15896 Sep 12 13:09 15896 Sep 14 14:02 15896 Sep 22 08:55 15896 Sep 22 11:38 15896 Sep 26 12:37 15896 Sep 29 00:40 15896 Oct 01 18:47	26° m 28'02 0° <u>a</u> 3° <u>a</u> 29'12 17° <u>a</u> 24'28 17° <u>a</u> 37'03 25° <u>a</u> 12'22 0° m 5° m 18'51	-0°36'18
superior conj minimum elong behind sun begin behind sun end asc. node evening rise	15895 Sep 30 02:29 15895 Oct 03 15:31 15895 Oct 08 01:14 15895 Oct 10 13:18 15895 Oct 10 13:20 15895 Oct 10 06:43 15895 Oct 10 19:56 15895 Oct 10 15:58 15895 Oct 18 21:47 15895 Oct 23 04:42	21° 2 46'53 0° M . 4° M .49'49 4° M .49'59 4° M .17'45 5° M .22'17 5° M .02'54 21° M .31'19 0° ₹	-0°01'00 0°00'37	max. Earth dist. superior conj minimum elong asc. node evening rise	15896 Sep 10 10:45 15896 Sep 12 13:09 15896 Sep 14 14:02 15896 Sep 22 08:55 15896 Sep 22 11:38 15896 Sep 26 12:37 15896 Sep 29 00:40 15896 Oct 01 18:47 15896 Oct 16 13:10	26° m 28'02 0° Ω 3° Ω 29'12 17° Ω 24'28 17° Ω 37'03 25° Ω 12'22 0° M 5° M 18'51 0° ✓	-0°36'18 0°35'40
superior conj minimum elong behind sun begin behind sun end asc. node	15895 Sep 30 02:29 15895 Oct 03 15:31 15895 Oct 08 01:14 15895 Oct 10 13:18 15895 Oct 10 13:20 15895 Oct 10 06:43 15895 Oct 10 06:43 15895 Oct 10 15:58 15895 Oct 10 15:58	21° \(\Omega\) 46'53 0° \(\mathbb{m}\). 4° \(\mathbb{m}\) 49'49 4° \(\mathbb{m}\) 17'45 5° \(\mathbb{m}\) 22'17 5° \(\mathbb{m}\) 02'54 21° \(\mathbb{m}\) 31'19	-0°01'00	max. Earth dist. superior conj minimum elong asc. node	15896 Sep 10 10:45 15896 Sep 12 13:09 15896 Sep 14 14:02 15896 Sep 22 08:55 15896 Sep 22 11:38 15896 Sep 26 12:37 15896 Sep 29 00:40 15896 Oct 01 18:47	26° m 28'02 0° <u>a</u> 3° <u>a</u> 29'12 17° <u>a</u> 24'28 17° <u>a</u> 37'03 25° <u>a</u> 12'22 0° m 5° m 18'51	-0°36'18 0°35'40

evening set	15896 Oct 27 22:10	5° ∡ 17'21		retrograde	15897 Oct 08 07:46	17° M 40'35	
desc. node	15896 Oct 27 22:10 15896 Oct 29 00:06	4° × ⁷ 59'14		evening set	15897 Oct 08 07:40 15897 Oct 10 11:43	17 ML20'55	
inferior conj	15896 Nov 04 22:37	0° √ 51'09	-2°13'36	desc. node	15897 Oct 10 11:45	14°ML09'03	
minimum elong	15896 Nov 04 22:37	1° x 31'09		inferior conj	15897 Oct 17 18:31	12°M33'06	0°35'58
minimum clong	15896 Nov 06 01:42	30°RM	2 10 47	minimum elong	15897 Oct 17 17:15	12°MJ35'53	0°34'59
min. Earth dist.	15896 Nov 08 01:49	28°M30'43	0.57257 AU	min. Earth dist.	15897 Oct 17 17:13 15897 Oct 21 00:22	9°M43'40	0.59413 AU
morning rise	15896 Nov 12 08:59	25°M51'07	0.37237 AU	morning rise	15897 Oct 24 19:27	6°M58'25	0.39413 AU
_		24°M19'22		direct		5°M00'53	
direct	15896 Nov 18 11:17 15896 Nov 30 18:36	24 IIL1922 0° √		morning max el	15897 Oct 31 08:02	12°M44'45	27°41'41
			26044150	morning max ei	15897 Nov 14 14:40		2/-4141
morning max el	15896 Dec 02 16:36	1° × ⁷ 45'06	26°44'58	1	15897 Nov 28 07:04	0° ₹ ¹	
,	15896 Dec 22 18:15	0°る		asc. node	15897 Dec 10 10:03	20° х 49'42	
asc. node	15896 Dec 23 13:00	1°る25'49			15897 Dec 15 00:01	0°る	
morning set	15897 Jan 01 04:22	18° る 45'45		morning set	15897 Dec 16 10:56	3° る 03'04	
	15897 Jan 06 06:54	0° ≈					
				superior conj	15897 Dec 23 10:24	18° る 21'30	1°34'00
superior conj	15897 Jan 07 22:58	3° ≈ 44'07	1°38'01	minimum elong	15897 Dec 23 09:13	18° る 14'53	1°34'43
minimum elong	15897 Jan 07 22:47	3° ≈ 43'06	1°38'43	max. Earth dist.	15897 Dec 22 19:29	16° る 58'03	1.31025 AU
max. Earth dist.	15897 Jan 08 11:39	4° ≈ 55'01	1.31166 AU		15897 Dec 28 15:58	0° ≈	
evening rise	15897 Jan 14 20:24	18° ≈ 51'24		evening rise	15897 Dec 30 03:33	3° ≈ 13'17	
	15897 Jan 20 07:57	0° ∀		desc. node	15898 Jan 11 20:13	27° ≈ 42'38	
desc. node	15897 Jan 24 23:26	8° ∺ 37'28			15898 Jan 13 05:36	0° ∀	
	15897 Feb 08 01:24	0° Y		evening max el	15898 Jan 27 22:23	19° ∺ 03'27	26°19'04
evening max el	15897 Feb 14 23:14	7° Ƴ 39'48	27°15'07	retrograde	15898 Feb 10 21:47	26°) 10′24	
retrograde	15897 Feb 28 23:52	14° Ƴ 58'56		evening set	15898 Feb 17 04:25	24°) ₹36′03	
evening set	15897 Mar 07 16:40	13° Ƴ 00′06		min. Earth dist.	15898 Feb 21 11:42	21° ∺ 58'35	0.58083 AU
min. Earth dist.	15897 Mar 11 13:36	10° Ƴ 15′24	0.60280 AU	inferior conj	15898 Feb 24 14:10	19° ¥ 42'36	-3°38'23
inferior conj	15897 Mar 14 18:31	7° Ƴ 33'05	-2°08'18	minimum elong	15898 Feb 24 22:22	19° ∺ 27'34	3°35'21
minimum elong	15897 Mar 14 23:18	7° Ƴ 22'57	2°06'25	morning rise	15898 Mar 04 19:34	15°) 15′32	
asc. node	15897 Mar 21 10:25	3° Ƴ 03'19		direct	15898 Mar 06 18:52	15°) €02'32	
morning rise	15897 Mar 22 09:23	2° Y '44'29		asc. node	15898 Mar 08 07:49	15° ¥ 10'48	
direct	15897 Mar 24 10:42	2° Y ′27'36		morning max el	15898 Mar 15 01:55	19° 米 07'52	18°32'08
morning max el	15897 Mar 31 16:55	6° Ƴ 05'17	17°59'19	C	15898 Mar 23 01:04	0° Y	
C	15897 Apr 15 23:37	0°B		morning set	15898 Mar 31 00:04	14° Ƴ 37'38	
morning set	15897 Apr 16 06:42	0° 8 32'29		C	15898 Apr 08 01:29	0°B	
•	-	_			r	. •	
desc. node	15897 Apr 23 01:03	12° B 52'55					
desc. node	15897 Apr 23 01:03	12° 8 52'55		superior coni	15898 Apr 09 01:30	1° 8 51'38	0°07'03
			-0°28'50	superior conj	15898 Apr 09 01:30 15898 Apr 09 01:59	1° と 51'38 1° と 53'48	0°07'03 0°06'37
superior conj	15897 Apr 26 14:11	19° 8 10'48		minimum elong	15898 Apr 09 01:59	1° 8 53'48	0°07'03 0°06'37
	15897 Apr 26 14:11 15897 Apr 26 11:42	19° 8 10'48 18° 8 59'54		minimum elong behind sun begin	15898 Apr 09 01:59 15898 Apr 08 19:28	1° 8 53'48 1° 8 23'41	
superior conj minimum elong	15897 Apr 26 14:11 15897 Apr 26 11:42 15897 May 02 21:54	19° Ы 10'48 18° Ы 59'54 0°П	0°28'59	minimum elong behind sun begin behind sun end	15898 Apr 09 01:59 15898 Apr 08 19:28 15898 Apr 09 08:29	1°853'48 1°823'41 2°823'51	
superior conj minimum elong max. Earth dist.	15897 Apr 26 14:11 15897 Apr 26 11:42 15897 May 02 21:54 15897 May 04 03:04	19° Ы 10'48 18° Ы 59'54 0°П 2°П01'16		minimum elong behind sun begin behind sun end desc. node	15898 Apr 09 01:59 15898 Apr 08 19:28 15898 Apr 09 08:29 15898 Apr 09 21:44	1°\delta53'48 1°\delta23'41 2°\delta23'51 3°\delta24'51	0°06'37
superior conj minimum elong	15897 Apr 26 14:11 15897 Apr 26 11:42 15897 May 02 21:54 15897 May 04 03:04 15897 May 09 18:34	19° ႘ 10'48 18° ႘ 59'54 0°Ⅲ 2°Ⅲ01'16 11°Ⅲ10'45	0°28'59	minimum elong behind sun begin behind sun end desc. node max. Earth dist.	15898 Apr 09 01:59 15898 Apr 08 19:28 15898 Apr 09 08:29 15898 Apr 09 21:44 15898 Apr 16 11:51	1°853'48 1°823'41 2°823'51 3°824'51 15°809'59	
superior conj minimum elong max. Earth dist. evening rise	15897 Apr 26 14:11 15897 Apr 26 11:42 15897 May 02 21:54 15897 May 04 03:04 15897 May 09 18:34 15897 May 22 02:24	19° 8 10'48 18° 8 59'54 0°П 2°П01'16 11°П10'45 0°©	0°28'59 1.42482 AU	minimum elong behind sun begin behind sun end desc. node	15898 Apr 09 01:59 15898 Apr 08 19:28 15898 Apr 09 08:29 15898 Apr 09 21:44 15898 Apr 16 11:51 15898 Apr 20 16:11	1°\delta53'48 1°\delta23'41 2°\delta23'51 3°\delta24'51 15°\delta09'59 22°\delta15'24	0°06'37
superior conj minimum elong max. Earth dist.	15897 Apr 26 14:11 15897 Apr 26 11:42 15897 May 02 21:54 15897 May 04 03:04 15897 May 09 18:34 15897 May 22 02:24 15897 Jun 11 15:29	19° 8 10'48 18° 8 59'54 0° П 2° П 01'16 11° П 10'45 0° © 26° © 45'15	0°28'59 1.42482 AU	minimum elong behind sun begin behind sun end desc. node max. Earth dist.	15898 Apr 09 01:59 15898 Apr 08 19:28 15898 Apr 09 08:29 15898 Apr 09 21:44 15898 Apr 16 11:51 15898 Apr 20 16:11 15898 Apr 25 10:19	1°\delta53'48 1°\delta23'41 2°\delta23'51 3°\delta24'51 15°\delta09'59 22°\delta15'24 0°\delta	0°06'37
superior conj minimum elong max. Earth dist. evening rise evening max el	15897 Apr 26 14:11 15897 Apr 26 11:42 15897 May 02 21:54 15897 May 04 03:04 15897 May 09 18:34 15897 May 22 02:24 15897 Jun 11 15:29 15897 Jun 15 08:27	19°810'48 18°859'54 0°Ⅲ 2°Ⅲ01'16 11°Ⅲ10'45 0° 26°45'15 0°Ω	0°28'59 1.42482 AU	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise	15898 Apr 09 01:59 15898 Apr 08 19:28 15898 Apr 09 08:29 15898 Apr 09 21:44 15898 Apr 16 11:51 15898 Apr 20 16:11 15898 Apr 25 10:19 15898 May 16 02:09	1°\delta53'48 1°\delta23'41 2°\delta23'51 3°\delta24'51 15°\delta99'59 22°\delta15'24 0°\pi 0°\pi	0°06′37 1.40330 AU
superior conj minimum elong max. Earth dist. evening rise evening max el asc. node	15897 Apr 26 14:11 15897 Apr 26 11:42 15897 May 02 21:54 15897 May 04 03:04 15897 May 09 18:34 15897 May 22 02:24 15897 Jun 11 15:29 15897 Jun 15 08:27 15897 Jun 17 08:20	19°႘10'48 18°႘59'54 0°Ⅲ 2°Ⅲ01'16 11°Ⅲ10'45 0° 26°45'15 0°Ո 1°Ω16'38	0°28'59 1.42482 AU	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise	15898 Apr 09 01:59 15898 Apr 08 19:28 15898 Apr 09 08:29 15898 Apr 09 21:44 15898 Apr 16 11:51 15898 Apr 20 16:11 15898 Apr 25 10:19 15898 May 16 02:09 15898 May 25 06:11	1°\delta53'48 1°\delta23'41 2°\delta23'51 3°\delta24'51 15°\delta99'59 22°\delta15'24 0°\pi 0°\delta 10°\delta39'35	0°06′37 1.40330 AU
superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde	15897 Apr 26 14:11 15897 Apr 26 11:42 15897 May 02 21:54 15897 May 04 03:04 15897 May 09 18:34 15897 May 22 02:24 15897 Jun 11 15:29 15897 Jun 15 08:27 15897 Jun 17 08:20 15897 Jun 21 07:30	19°႘10'48 18°႘59'54 0°Ⅲ 2°Ⅲ01'16 11°Ⅲ10'45 0° 26°�45'15 0°ℳ 1°ℳ16'38 2°ℳ24'37	0°28'59 1.42482 AU	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node	15898 Apr 09 01:59 15898 Apr 08 19:28 15898 Apr 09 08:29 15898 Apr 09 21:44 15898 Apr 16 11:51 15898 Apr 20 16:11 15898 Apr 25 10:19 15898 May 16 02:09 15898 May 25 06:11 15898 Jun 04 05:23	1°853'48 1°823'41 2°823'51 3°824'51 15°809'59 22°815'24 0°11 0°99 10°9939'35 16°9958'15	0°06′37 1.40330 AU
superior conj minimum elong max. Earth dist. evening rise evening max el asc. node	15897 Apr 26 14:11 15897 Apr 26 11:42 15897 May 02 21:54 15897 May 04 03:04 15897 May 09 18:34 15897 May 22 02:24 15897 Jun 11 15:29 15897 Jun 15 08:27 15897 Jun 17 08:20 15897 Jun 21 07:30 15897 Jun 26 02:56	19°810'48 18°859'54 0°Ⅲ 2°Ⅲ01'16 11°Ⅲ10'45 0°☞ 26°ℱ45'15 0°ℳ 1°ℳ16'38 2°ℳ24'37 0°ℳ23'39	0°28'59 1.42482 AU	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde	15898 Apr 09 01:59 15898 Apr 08 19:28 15898 Apr 09 08:29 15898 Apr 09 21:44 15898 Apr 16 11:51 15898 Apr 20 16:11 15898 Apr 25 10:19 15898 May 16 02:09 15898 May 25 06:11 15898 Jun 04 05:23 15898 Jun 05 02:32	1°853'48 1°823'41 2°823'51 3°824'51 15°809'59 22°815'24 0°II 0°9 10°939'35 16°958'15 17°901'36	0°06′37 1.40330 AU
superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set	15897 Apr 26 14:11 15897 Apr 26 11:42 15897 May 02 21:54 15897 May 04 03:04 15897 May 09 18:34 15897 May 22 02:24 15897 Jun 11 15:29 15897 Jun 15 08:27 15897 Jun 21 07:30 15897 Jun 26 02:56 15897 Jun 26 13:33	19°810'48 18°859'54 0°II 2°I101'16 11°I10'45 0°© 26°©45'15 0°I 1°I16'38 2°I24'37 0°I23'39 30°R©	0°28'59 1.42482 AU 22°18'50	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set	15898 Apr 09 01:59 15898 Apr 08 19:28 15898 Apr 09 08:29 15898 Apr 09 21:44 15898 Apr 16 11:51 15898 Apr 20 16:11 15898 Apr 25 10:19 15898 May 16 02:09 15898 May 25 06:11 15898 Jun 04 05:23 15898 Jun 05 02:32 15898 Jun 10 09:37	1°853'48 1°823'41 2°823'51 3°824'51 15°809'59 22°815'24 0°II 0°9 10°939'35 16°958'15 17°901'36 14°946'23	0°06'37 1.40330 AU 23°40'13
superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj	15897 Apr 26 14:11 15897 Apr 26 11:42 15897 May 02 21:54 15897 May 04 03:04 15897 May 09 18:34 15897 May 22 02:24 15897 Jun 11 15:29 15897 Jun 15 08:27 15897 Jun 17 08:20 15897 Jun 26 02:56 15897 Jun 26 13:33 15897 Jul 01 09:14	19°810'48 18°859'54 0°11 2°1101'16 11°110'45 0°5 26°545'15 0°10 1°116'38 2°124'37 0°123'39 30°15 24°504'00	0°28'59 1.42482 AU 22°18'50 3°04'33	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set min. Earth dist.	15898 Apr 09 01:59 15898 Apr 08 19:28 15898 Apr 09 08:29 15898 Apr 09 21:44 15898 Apr 16 11:51 15898 Apr 20 16:11 15898 Apr 25 10:19 15898 May 16 02:09 15898 May 25 06:11 15898 Jun 04 05:23 15898 Jun 05 02:32 15898 Jun 10 09:37 15898 Jun 15 03:20	1°853'48 1°823'41 2°823'51 3°824'51 15°809'59 22°815'24 0°II 0°99 10°939'35 16°958'15 17°901'36 14°946'23 9°912'46	0°06'37 1.40330 AU 23°40'13 0.68956 AU
superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong	15897 Apr 26 14:11 15897 Apr 26 11:42 15897 May 02 21:54 15897 May 04 03:04 15897 May 09 18:34 15897 May 22 02:24 15897 Jun 11 15:29 15897 Jun 15 08:27 15897 Jun 17 08:20 15897 Jun 26 02:56 15897 Jun 26 13:33 15897 Jul 01 09:14 15897 Jul 01 08:25	19°810'48 18°859'54 0°11 2°1101'16 11°110'45 0°5 26°545'15 0°10 1°116'38 2°124'37 0°123'39 30°15 24°504'00 24°506'51	0°28'59 1.42482 AU 22°18'50 3°04'33 3°03'43	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set min. Earth dist. inferior conj	15898 Apr 09 01:59 15898 Apr 08 19:28 15898 Apr 09 08:29 15898 Apr 09 21:44 15898 Apr 16 11:51 15898 Apr 20 16:11 15898 Apr 25 10:19 15898 May 16 02:09 15898 May 25 06:11 15898 Jun 04 05:23 15898 Jun 05 02:32 15898 Jun 10 09:37 15898 Jun 15 03:20 15898 Jun 15 18:52	1°853'48 1°823'41 2°823'51 3°824'51 15°809'59 22°815'24 0°II 0°© 10°©39'35 16°©58'15 17°©01'36 14°©46'23 9°©12'46 8°©19'31	0°06'37 1.40330 AU 23°40'13 0.68956 AU 2°49'54
superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	15897 Apr 26 14:11 15897 Apr 26 11:42 15897 May 02 21:54 15897 May 04 03:04 15897 May 09 18:34 15897 May 22 02:24 15897 Jun 11 15:29 15897 Jun 15 08:27 15897 Jun 21 07:30 15897 Jun 26 02:56 15897 Jun 26 13:33 15897 Jul 01 09:14 15897 Jul 01 08:25 15897 Jul 01 08:25 15897 Jul 01 08:25	19°810'48 18°859'54 0°11 2°1101'16 11°110'45 0°5 26°545'15 0°10 1°116'38 2°124'37 0°123'39 30°15 24°504'00 24°506'51 24°512'40	0°28'59 1.42482 AU 22°18'50 3°04'33	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set min. Earth dist. inferior conj minimum elong	15898 Apr 09 01:59 15898 Apr 08 19:28 15898 Apr 09 08:29 15898 Apr 09 21:44 15898 Apr 16 11:51 15898 Apr 20 16:11 15898 Apr 25 10:19 15898 May 16 02:09 15898 May 25 06:11 15898 Jun 04 05:23 15898 Jun 05 02:32 15898 Jun 10 09:37 15898 Jun 15 03:20 15898 Jun 15 18:52 15898 Jun 15 18:52	1°853'48 1°823'41 2°823'51 3°824'51 15°809'59 22°815'24 0°II 0°9 10°939'35 16°958'15 17°901'36 14°946'23 9°912'46 8°919'31 8°925'00	0°06'37 1.40330 AU 23°40'13 0.68956 AU
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	15897 Apr 26 14:11 15897 Apr 26 11:42 15897 May 02 21:54 15897 May 04 03:04 15897 May 09 18:34 15897 May 22 02:24 15897 Jun 11 15:29 15897 Jun 15 08:27 15897 Jun 21 07:30 15897 Jun 26 02:56 15897 Jun 26 13:33 15897 Jun 26 13:33 15897 Jul 01 09:14 15897 Jul 01 08:25 15897 Jul 01 06:45 15897 Jul 01 06:45 15897 Jul 06 13:45	19°810'48 18°859'54 0°11 2°1101'16 11°110'45 0°5 26°545'15 0°10 1°16'38 2°124'37 0°123'39 30°15 24°504'00 24°506'51 24°512'40 17°550'25	0°28'59 1.42482 AU 22°18'50 3°04'33 3°03'43	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	15898 Apr 09 01:59 15898 Apr 08 19:28 15898 Apr 09 08:29 15898 Apr 09 21:44 15898 Apr 16 11:51 15898 Apr 20 16:11 15898 Apr 25 10:19 15898 May 16 02:09 15898 May 25 06:11 15898 Jun 04 05:23 15898 Jun 05 02:32 15898 Jun 10 09:37 15898 Jun 15 03:20 15898 Jun 15 18:52 15898 Jun 15 18:52 15898 Jun 15 17:16 15898 Jun 21 00:55	1°853'48 1°823'41 2°823'51 3°824'51 15°809'59 22°815'24 0°II 0°5 10°539'35 16°558'15 17°501'36 14°546'23 9°512'46 8°519'31 8°525'00 2°514'23	0°06'37 1.40330 AU 23°40'13 0.68956 AU 2°49'54
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	15897 Apr 26 14:11 15897 Apr 26 11:42 15897 May 02 21:54 15897 May 04 03:04 15897 May 09 18:34 15897 May 22 02:24 15897 Jun 11 15:29 15897 Jun 15 08:27 15897 Jun 21 07:30 15897 Jun 26 02:56 15897 Jun 26 13:33 15897 Jul 01 09:14 15897 Jul 01 08:25 15897 Jul 01 08:25 15897 Jul 01 06:45 15897 Jul 01 06:45 15897 Jul 06 13:45 15897 Jul 06 13:45	19°810'48 18°859'54 0°II 2°II01'16 11°II10'45 0°S 26°S45'15 0°A 1°A16'38 2°A24'37 0°A23'39 30°RS 24°S04'00 24°S06'51 24°S12'40 17°S50'25 15°S52'51	0°28'59 1.42482 AU 22°18'50 3°04'33 3°03'43	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	15898 Apr 09 01:59 15898 Apr 08 19:28 15898 Apr 09 08:29 15898 Apr 09 21:44 15898 Apr 16 11:51 15898 Apr 20 16:11 15898 Apr 25 10:19 15898 May 16 02:09 15898 May 25 06:11 15898 Jun 04 05:23 15898 Jun 05 02:32 15898 Jun 10 09:37 15898 Jun 15 03:20 15898 Jun 15 18:52 15898 Jun 15 17:16 15898 Jun 21 00:55 15898 Jun 25 05:00	1°853'48 1°823'41 2°823'51 3°824'51 15°809'59 22°815'24 0°II 0°9 10°939'35 16°958'15 17°901'36 14°946'23 9°912'46 8°919'31 8°925'00 2°914'23 0°936'28	0°06'37 1.40330 AU 23°40'13 0.68956 AU 2°49'54 2°48'50
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	15897 Apr 26 14:11 15897 Apr 26 11:42 15897 May 02 21:54 15897 May 04 03:04 15897 May 09 18:34 15897 May 22 02:24 15897 Jun 11 15:29 15897 Jun 15 08:27 15897 Jun 21 07:30 15897 Jun 26 02:56 15897 Jun 26 13:33 15897 Jul 01 09:14 15897 Jul 01 09:14 15897 Jul 01 08:25 15897 Jul 01 06:45 15897 Jul 01 06:45 15897 Jul 01 05:58 15897 Jul 11 05:58 15897 Jul 20 00:31	19°810'48 18°859'54 0°II 2°II01'16 11°II10'45 0°G 26°G45'15 0°A 1°A16'38 2°A24'37 0°A23'39 30°RS 24°G04'00 24°G06'51 24°G12'40 17°G50'25 15°G52'51 20°G49'45	0°28'59 1.42482 AU 22°18'50 3°04'33 3°03'43 0.69132 AU	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	15898 Apr 09 01:59 15898 Apr 08 19:28 15898 Apr 09 08:29 15898 Apr 09 21:44 15898 Apr 16 11:51 15898 Apr 20 16:11 15898 Apr 25 10:19 15898 May 16 02:09 15898 May 25 06:11 15898 Jun 04 05:23 15898 Jun 05 02:32 15898 Jun 10 09:37 15898 Jun 15 03:20 15898 Jun 15 18:52 15898 Jun 15 17:16 15898 Jun 21 00:55 15898 Jun 25 05:00 15898 Jul 03 06:12	1°853'48 1°823'41 2°823'51 3°824'51 15°809'59 22°815'24 0°II 0°9 10°939'35 16°958'15 17°901'36 14°946'23 9°912'46 8°919'31 8°925'00 2°914'23 0°936'28 5°910'31	0°06'37 1.40330 AU 23°40'13 0.68956 AU 2°49'54
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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	15897 Apr 26 14:11 15897 Apr 26 11:42 15897 May 02 21:54 15897 May 04 03:04 15897 May 09 18:34 15897 May 22 02:24 15897 Jun 11 15:29 15897 Jun 17 08:20 15897 Jun 26 02:56 15897 Jun 26 13:33 15897 Jun 26 13:33 15897 Jul 01 09:14 15897 Jul 01 08:25 15897 Jul 01 06:45 15897 Jul 01 06:45 15897 Jul 11 05:58 15897 Jul 20 00:31 15897 Jul 20 10:47 15897 Jul 27 22:14 15897 Aug 17 16:06 15897 Aug 21 19:12 15897 Sep 04 09:58	19° 810'48 18° 859'54 0° II 2° II 01'16 11° II 10'45 0° © 26° \$\text{945'15} 0° \$\mathbb{\alpha}\$ 1° \$\mathbb{\alpha}\$16'38 2° \$\mathbb{\alpha}\$24'37 0° \$\mathbb{\alpha}\$23'39 30° \$\mathbb{\alpha}\$24'\text{904'00} 24° \$\text{906'51}\$24° \$\text{912'40}\$17° \$\text{950'25}\$15° \$\text{955'251}\$20° \$\text{949'45}\$21° \$\text{915'05}\$0° \$\mathbb{\alpha}\$0" \$\mathbb{\alpha}\$0' \$\text{905'29}\$29° \$\mathbb{\alpha}\$10'19	0°28'59 1.42482 AU 22°18'50 3°04'33 3°03'43 0.69132 AU 21°50'13 1.41981 AU -1°12'56	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	15898 Apr 09 01:59 15898 Apr 08 19:28 15898 Apr 09 08:29 15898 Apr 09 21:44 15898 Apr 20 16:11 15898 Apr 20 16:11 15898 Apr 25 10:19 15898 May 16 02:09 15898 May 25 06:11 15898 Jun 04 05:23 15898 Jun 05 02:32 15898 Jun 15 03:20 15898 Jun 15 18:52 15898 Jun 15 17:16 15898 Jun 21 00:55 15898 Jun 21 00:55 15898 Jun 25 05:00 15898 Jul 03 06:12 15898 Jul 04 02:45 15898 Jul 05 02:45 15898 Jul 06 21:45 15898 Jul 07 06:41 15898 Aug 10 03:11 15898 Aug 10 09:42	1°853'48 1°823'41 2°823'51 3°824'51 15°809'59 22°815'24 0°II 0°9 10°939'35 16°958'15 17°901'36 14°946'23 9°912'46 8°919'31 8°925'00 2°914'23 0°936'28 5°910'31 9°911'50 0°\$ 15°\$33'52 0°\$ 19°\$1 9°\$15'55	0°06'37 1.40330 AU 23°40'13 0.68956 AU 2°49'54 2°48'50 20°31'31 1.43915 AU -1°46'04
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	15897 Apr 26 14:11 15897 Apr 26 11:42 15897 May 02 21:54 15897 May 04 03:04 15897 May 09 18:34 15897 May 22 02:24 15897 Jun 11 15:29 15897 Jun 15 08:27 15897 Jun 21 07:30 15897 Jun 26 02:56 15897 Jun 26 13:33 15897 Jul 01 09:14 15897 Jul 01 08:25 15897 Jul 01 06:45 15897 Jul 01 06:45 15897 Jul 11 05:58 15897 Jul 20 00:31 15897 Jul 20 10:47 15897 Jul 27 22:14 15897 Aug 17 16:06 15897 Aug 27 17:16 15897 Sep 04 09:58 15897 Sep 04 09:58	19° 810'48 18° 859'54 0° II 2° II 01'16 11° II 10'45 0° © 26° \$\text{945'15} 0° \$\text{13} 1° \$\text{137} 0° \$\text{12'40} 17° \$\text{950'25} 15° \$\text{952'51} 20° \$\text{949'45} 21° \$\text{915'05} 0° \$\text{0} 0° \$\text{10} 0° \$\text{10} 29° \$\text{10'19} 29° \$\text{10'19} 29° \$\text{10'19}	0°28'59 1.42482 AU 22°18'50 3°04'33 3°03'43 0.69132 AU 21°50'13 1.41981 AU -1°12'56	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	15898 Apr 09 01:59 15898 Apr 08 19:28 15898 Apr 09 08:29 15898 Apr 09 21:44 15898 Apr 20 16:11 15898 Apr 25 10:19 15898 May 16 02:09 15898 May 25 06:11 15898 Jun 04 05:23 15898 Jun 05 02:32 15898 Jun 15 03:20 15898 Jun 15 18:52 15898 Jun 15 17:16 15898 Jun 21 00:55 15898 Jun 21 00:55 15898 Jun 25 05:00 15898 Jul 03 06:12 15898 Jul 04 02:45 15898 Jul 05 02:45 15898 Jul 06 21:45 15898 Jul 07 00:41 15898 Aug 10 03:11 15898 Aug 10 09:42 15898 Aug 16 12:24 15898 Aug 16 12:24	1°853'48 1°823'41 2°823'51 3°824'51 15°809'59 22°815'24 0°II 0°9 10°939'35 16°958'15 17°901'36 14°946'23 9°912'46 8°919'31 8°925'00 2°914'23 0°936'28 5°910'31 9°911'50 0°1 15°138'31 29°138'31 29°138'31 29°138'31	0°06'37 1.40330 AU 23°40'13 0.68956 AU 2°49'54 2°48'50 20°31'31 1.43915 AU -1°46'04
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	15897 Apr 26 14:11 15897 Apr 26 11:42 15897 May 02 21:54 15897 May 04 03:04 15897 May 09 18:34 15897 May 22 02:24 15897 Jun 11 15:29 15897 Jun 15 08:27 15897 Jun 21 07:30 15897 Jun 26 02:56 15897 Jun 26 13:33 15897 Jul 01 09:14 15897 Jul 01 08:25 15897 Jul 01 06:45 15897 Jul 01 06:45 15897 Jul 11 05:58 15897 Jul 20 00:31 15897 Jul 20 10:47 15897 Jul 20 10:47 15897 Jul 27 22:14 15897 Aug 17 16:06 15897 Aug 27 17:16 15897 Sep 04 09:58 15897 Sep 04 09:58 15897 Sep 04 15:53 15897 Sep 04 21:20	19° 810'48 18° 859'54 0° II 2° II 01'16 11° II 10'45 0° © 26° © 45'15 0° Ω 1° Ω 16'38 2° Ω 24'37 0° Ω 23'39 30° R© 24° © 06'51 24° © 12'40 17° © 50'25 15° © 52'51 20° © 49'45 21° © 15'05 0° Ω 0° ID 6° ID 29'22 16° ID 05'29 29° ID 10'19 29° ID 36'10 0° Ω	0°28'59 1.42482 AU 22°18'50 3°04'33 3°03'43 0.69132 AU 21°50'13 1.41981 AU -1°12'56	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	15898 Apr 09 01:59 15898 Apr 08 19:28 15898 Apr 09 08:29 15898 Apr 09 21:44 15898 Apr 20 16:11 15898 Apr 25 10:19 15898 May 16 02:09 15898 May 25 06:11 15898 Jun 04 05:23 15898 Jun 05 02:32 15898 Jun 10 09:37 15898 Jun 15 18:52 15898 Jun 15 17:16 15898 Jun 21 00:55 15898 Jun 21 00:55 15898 Jun 25 05:00 15898 Jul 21 00:55 15898 Jul 21 02:45 15898 Jul 06 21:45 15898 Jul 01 06:41 15898 Aug 10 03:11 15898 Aug 10 09:42 15898 Aug 16 12:24 15898 Aug 16 12:24 15898 Aug 16 12:24 15898 Aug 16 12:24	1°853'48 1°823'41 2°823'51 3°824'51 15°809'59 22°815'24 0°11 0°9 10°939'35 16°958'15 17°901'36 14°946'23 9°912'46 8°919'31 8°925'00 2°914'23 0°936'28 5°910'31 9°911'50 0°0 15°038'31 29°033'52 0°10 9°1057'55 10°1030'20 0°9	0°06'37 1.40330 AU 23°40'13 0.68956 AU 2°49'54 2°48'50 20°31'31 1.43915 AU -1°46'04
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 asc. node	15897 Apr 26 14:11 15897 Apr 26 11:42 15897 May 02 21:54 15897 May 04 03:04 15897 May 09 18:34 15897 May 22 02:24 15897 Jun 11 15:29 15897 Jun 17 08:20 15897 Jun 21 07:30 15897 Jun 26 02:56 15897 Jun 26 02:56 15897 Jun 01 09:14 15897 Jul 01 08:25 15897 Jul 01 06:45 15897 Jul 01 06:45 15897 Jul 01 06:45 15897 Jul 10 05:58 15897 Jul 20 00:31 15897 Jul 20 10:47 15897 Jul 20 10:47 15897 Jul 27 22:14 15897 Aug 17 16:06 15897 Aug 21 19:12 15897 Aug 27 17:16	19° 810'48 18° 859'54 0° II 2° II 01'16 11° II 10'45 0° © 26° © 45'15 0° Ω 1° Ω 16'38 2° Ω 24'37 0° Ω 23'39 30° R© 24° © 06'51 24° © 12'40 17° © 50'25 15° © 52'51 20° © 49'45 21° © 15'05 0° Ω 0° ID 6° ID 29'22 16° ID 05'29 29° ID 10'19 29° ID 36'10 0° Ω 15° Ω 17'05	0°28'59 1.42482 AU 22°18'50 3°04'33 3°03'43 0.69132 AU 21°50'13 1.41981 AU -1°12'56	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	15898 Apr 09 01:59 15898 Apr 08 19:28 15898 Apr 09 08:29 15898 Apr 09 21:44 15898 Apr 09 21:44 15898 Apr 20 16:11 15898 Apr 25 10:19 15898 May 16 02:09 15898 May 25 06:11 15898 Jun 04 05:23 15898 Jun 05 02:32 15898 Jun 10 09:37 15898 Jun 15 18:52 15898 Jun 15 17:16 15898 Jun 15 17:16 15898 Jun 21 00:55 15898 Jun 25 05:00 15898 Jul 03 06:12 15898 Jul 04 02:45 15898 Jul 05 02:45 15898 Jul 06 21:45 15898 Jul 07 00:41 15898 Aug 10 03:11 15898 Aug 10 09:42 15898 Aug 16 12:24 15898 Aug 16 12:24 15898 Aug 16 12:24 15898 Aug 16 12:24 15898 Aug 18 06:20 15898 Aug 28 06:20 15898 Aug 28 23:47	1°853'48 1°823'41 2°823'51 3°824'51 15°809'59 22°815'24 0°11 0°9 10°939'35 16°958'15 17°901'36 14°946'23 9°912'46 8°919'31 8°925'00 2°914'23 0°936'28 5°910'31 9°911'50 0°0 15°038'31 29°033'52 0°10 9°1057'55 10°1030'20 0°10 1°11'09	0°06'37 1.40330 AU 23°40'13 0.68956 AU 2°49'54 2°48'50 20°31'31 1.43915 AU -1°46'04
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 asc. node	15897 Apr 26 14:11 15897 Apr 26 11:42 15897 May 02 21:54 15897 May 04 03:04 15897 May 09 18:34 15897 May 22 02:24 15897 Jun 11 15:29 15897 Jun 15 08:27 15897 Jun 21 07:30 15897 Jun 26 02:56 15897 Jun 26 02:56 15897 Jun 26 13:33 15897 Jul 01 09:14 15897 Jul 01 06:45 15897 Jul 01 06:45 15897 Jul 01 05:58 15897 Jul 10 5:58 15897 Jul 20 00:31 15897 Jul 20 10:47 15897 Jul 20 10:47 15897 Jul 27 22:14 15897 Aug 17 16:06 15897 Aug 21 19:12 15897 Aug 27 17:16 15897 Sep 04 09:58 15897 Sep 04 09:58 15897 Sep 04 15:53 15897 Sep 04 21:20 15897 Sep 13 09:16 15897 Sep 13 09:16	19° 810'48 18° 859'54 0° II 2° II 01'16 11° II 10'45 0° 9 26° 945'15 0° Ω 1° Ω 16'38 2° Ω 24'37 0° Ω 23'39 30° R9 24° 904'00 24° 906'51 24° 912'40 17° 950'25 15° 952'51 20° 949'45 21° 915'05 0° Ω 0° IN 6° IN 29'22 16° IN 05'29 29° IN 10'19 29° IN 36'10 0° Ω 15° Ω 17'05 18° Ω 38'01 0° II.	0°28'59 1.42482 AU 22°18'50 3°04'33 3°03'43 0.69132 AU 21°50'13 1.41981 AU -1°12'56	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	15898 Apr 09 01:59 15898 Apr 08 19:28 15898 Apr 09 08:29 15898 Apr 09 21:44 15898 Apr 09 21:44 15898 Apr 20 16:11 15898 Apr 25 10:19 15898 May 16 02:09 15898 May 25 06:11 15898 Jun 04 05:23 15898 Jun 05 02:32 15898 Jun 10 09:37 15898 Jun 15 13:52 15898 Jun 15 17:16 15898 Jun 15 17:16 15898 Jun 21 00:55 15898 Jun 25 05:00 15898 Jul 03 06:12 15898 Jul 04 02:45 15898 Jul 05 02:45 15898 Jul 06 21:45 15898 Jul 06 21:45 15898 Aug 10 03:11 15898 Aug 10 03:11 15898 Aug 16 12:24 15898 Aug 16 12:24 15898 Aug 16 12:24 15898 Aug 16 12:24 15898 Aug 18 06:20 15898 Aug 28 06:20 15898 Aug 28 23:47 15898 Aug 31 05:55	1°853'48 1°823'41 2°823'51 3°824'51 15°809'59 22°815'24 0°11 0°9 10°939'35 16°958'15 17°901'36 14°946'23 9°912'46 8°919'31 8°925'00 2°914'23 0°936'28 5°910'31 9°911'50 0°0 15°038'31 29°033'52 0°10 15°038'31 29°033'52 0°10 15°038'31 29°10'31	0°06'37 1.40330 AU 23°40'13 0.68956 AU 2°49'54 2°48'50 20°31'31 1.43915 AU -1°46'04 1°45'39

retrograde	15898 Sep 21 07:15	0° M .34'49		evening rise	15899 Aug 10 21:46	13° m)00'11	
evening set	15898 Sep 23 18:54	0°M04'52		asc. node	15899 Aug 10 21:40 15899 Aug 18 02:36	24° M) 54'02	
evening set	15898 Sep 23 23:38	30°R <u>Ω</u>		asc. node	15899 Aug 21 07:25	ე° ი	
inferior conj	15898 Sep 30 09:26	24° £ 57'35	0°43'58	evening max el	15899 Aug 29 09:02	ა _ 10° ჲ 42'29	18°11'13
minimum elong	15898 Sep 30 10:43	24° £ 54'23	0°43'45	retrograde	15899 Sep 04 17:42	14° ⊆ 03'56	10 11 13
desc. node	15898 Oct 02 18:48	22° Ω 33'16	0 13 13	evening set	15899 Sep 07 17:12	13° £ 20'30	
min. Earth dist.	15898 Oct 03 08:50	21° £ 59'08	0.61707 AU	inferior conj	15899 Sep 13 15:23	7° £ 56'29	1°44'05
morning rise	15898 Oct 06 23:49	18° ≏ 56'26		minimum elong	15899 Sep 13 17:39	7° £ 50'06	1°43'24
direct	15898 Oct 13 16:07	16° ≏ 37'29		min. Earth dist.	15899 Sep 16 03:20	5° ഫ 08'18	0.63899 AU
morning max el	15898 Oct 27 20:00	24° ≏ 33'44	27°59'10	morning rise	15899 Sep 19 19:28	1° ≏ 38'58	
Ü	15898 Nov 01 19:08	0°M		desc. node	15899 Sep 19 16:11	1° ≏ 45'23	
	15898 Nov 21 16:48	0° ∡ ¹			15899 Sep 22 11:06	30°R, Mp	
asc. node	15898 Nov 27 07:02	10° ∡ ³33'15		direct	15899 Sep 26 09:58	29° Mp 06'04	
morning set	15898 Nov 30 11:54	17° ∡ *01′24			15899 Sep 30 15:10	0∘ ⊽	
max. Earth dist.	15898 Dec 06 00:39	28° ∡ ¹49'59	1.31434 AU	morning max el	15899 Oct 10 05:43	7° £ 05'04	27°39'03
	15898 Dec 06 13:24	0° ප			15899 Oct 27 21:00	0° M	
					15899 Nov 13 21:47	0° ∡ ¹	
superior conj	15898 Dec 07 20:23	2° る 51'06	1°23'58	morning set	15899 Nov 14 04:53	0° ∡ ³35′21	
minimum elong	15898 Dec 07 18:26	2° ප් 40'14	1°24'34	asc. node	15899 Nov 14 03:55	0° ∡ ³30'33	
evening rise	15898 Dec 14 13:27	17° る 40'08		max. Earth dist.	15899 Nov 18 23:13	10° ≯ 22'44	1.32408 AU
	15898 Dec 20 12:18	0° ≈					
desc. node	15898 Dec 29 17:05	16° ≈ 05′01		superior conj	15899 Nov 22 02:57	17° ∡ ¹08'02	1°07'52
evening max el	15899 Jan 09 12:55	29° ≈ 35′12	24°53'13	minimum elong	15899 Nov 22 00:36	16° ₹ 55'19	1°08'17
	15899 Jan 09 23:28	0° ∀			15899 Nov 28 00:37	0°ප	
retrograde	15899 Jan 23 07:28	6° ∺ 28'39		evening rise	15899 Nov 29 00:17	2° る 07'46	
evening set	15899 Jan 28 18:42	5°) 22′04			15899 Dec 14 01:27	0° ≈	
min. Earth dist.	15899 Feb 03 01:00	2°) 35′56	0.56173 AU	desc. node	15899 Dec 16 14:01	3° ≈ 29'12	
inferior conj	15899 Feb 05 12:46	1° ∺ 00'57	-5°01'56	evening max el	15899 Dec 21 22:27	9° ≈ 34'25	23°11'10
minimum elong	15899 Feb 05 21:56	0°) 46′20	4°59'18	retrograde	15900 Jan 04 04:01	16° ≈ 07'25	
	15899 Feb 07 03:37	30°R ≈		evening set	15900 Jan 08 10:38	15° ≈ 27'46	
morning rise	15899 Feb 14 03:36	26° ≈ 55'11		min. Earth dist.	15900 Jan 15 08:46	12° ≈ 13'49	0.54858 AU
direct	15899 Feb 16 07:33	26° ≈ 42'10		inferior conj	15900 Jan 16 15:39	11° ≈ 29′23	
asc. node	15899 Feb 23 05:11	29° ≈ 04'41		minimum elong	15900 Jan 16 19:48	11° ≈ 23′25	5°54'02
	15899 Feb 24 10:26	0° ∀		morning rise	15900 Jan 25 06:20	7° ≈ 38'33	
morning max el	15899 Feb 26 00:33	1° ∺ 25′24	19°27'00	direct	15900 Jan 28 01:30	7° ≈ 19'59	
morning set	15899 Mar 15 02:12	29°) €04'39		morning max el	15900 Feb 08 09:02	12° ≈ 47'39	20°45'06
	15899 Mar 15 13:15	$\mathbf{\gamma}_{0}$		asc. node	15900 Feb 10 02:32	14°≈35'03	
					15900 Feb 20 10:51	0° ∺	
superior conj	15899 Mar 23 05:12	15°Υ16'20		morning set	15900 Feb 27 09:54	13°) 43′35	
minimum elong	15899 Mar 23 07:17	15°Υ26'30	0°3/1/		15000 M 06 21 00	2001/12/16	1002110
desc. node	15899 Mar 27 18:23	23°Y57'16	1 20021 411	superior conj	15900 Mar 06 21:00	29° ₩ 12'16	1°02'19
max. Earth dist.	15899 Mar 29 18:02	27° Ƴ 37'05 0° ႘	1.38031 AU	minimum elong	15900 Mar 06 23:34	29° ¥ 25'20 0° Ƴ	1°02'01
avanina riaa	15899 Mar 31 01:35 15899 Apr 02 10:43	4° 8 13'36		may Earth dist	15900 Mar 07 06:22	0° γ 9° Υ 34'32	1.35836 AU
evening rise	15899 Apr 02 10:43 15899 Apr 18 11:30	0° I		max. Earth dist. desc. node	15900 Mar 12 01:55 15900 Mar 14 15:00	9° 1 34 32 14° Y 25 49	1.33830 AU
avanina may al		0 Ⅱ 24° Ⅱ 34'14	24950129	evening rise	15900 Mar 14 13.00 15900 Mar 15 23:19	16° Y 56'19	
evening max el	15899 May 07 19:34 15899 May 14 15:31	24 п 34 14	24 39 38	evening rise	15900 Mar 13 23.19 15900 Mar 23 09:12	0° 8	
retrograde	15899 May 14 15.51 15899 May 19 17:51	1° 9 31'10			15900 Mar 23 09.12 15900 Apr 12 20:14	0°II	
asc. node	15899 May 22 02:29	1°907'49		evening max el	15900 Apr 12 20:14 15900 Apr 20 09:07	8° Ⅱ 25'20	26°09'52
use. Hode	15899 May 24 07:54	30°RⅡ		retrograde	15900 May 03 04:22	15° II 45'11	20 07 32
evening set	15899 May 25 12:18	29° Ⅱ 05'17		asc. node	15900 May 08 04:22	13° II 32'39	
min. Earth dist.	15899 May 29 21:52	24° I 108'37	0.68297 AU	evening set	15900 May 09 09:11	13° I I13'32	
inferior conj	15899 May 31 02:23	22° I I34'38	2°24'39	min. Earth dist.	15900 May 13 12:16	8° I 52'31	0.67179 AU
minimum elong	15899 May 31 00:18	22° ∏ 41'32		inferior conj	15900 May 15 05:44	6° Ⅱ 43'56	1°48'05
morning rise	15899 Jun 05 12:37	16° Ⅲ 38'56		minimum elong	15900 May 15 03:37	6° Ⅱ 50'33	1°46'44
direct	15899 Jun 09 05:08	15° Ⅲ 20'50		morning rise	15900 May 20 22:51	0° П 58'57	1 .0
morning max el	15899 Jun 16 08:50	19° Ⅱ 16'46	19°26'01		15900 May 23 20:04	30° ₹ 8	
desc. node	15899 Jun 23 18:52	28° Ⅱ 16'18		direct	15900 May 24 04:41	29° 8 59'17	
	15899 Jun 25 00:44	0 ರಿ.ಪಾ			15900 May 24 13:20	0°II	
greatest brilliancy	15899 Jun 29 00:26	5°9544'50	-0.7m	morning max el	15900 May 30 18:18	3° Ⅱ 29'29	18°36'10
morning set	15899 Jul 11 10:38	24°532'22		desc. node	15900 Jun 10 15:54	17° Ⅲ 51'21	- *
S	15899 Jul 14 23:43	0° Ω			15900 Jun 18 12:29	0°ಅ	
max. Earth dist.	15899 Jul 23 18:34	13° Ω 40'47	1.45276 AU	morning set	15900 Jun 21 03:04	4°904'55	
		/	-	max. Earth dist.	15900 Jul 06 13:23	28°9510'34	1.45941 AU
superior conj	15899 Jul 27 15:44	19° Ω 49'01	-2°08'37				-
minimum elong	15899 Jul 27 21:06	20° Ω 10'19		superior conj	15900 Jul 07 03:06	29° © 04'02	-2°13'34
Č	15899 Aug 02 23:53	0°m/		minimum elong	15900 Jul 07 01:08	28°956'21	
	<u> </u>	.,		Č			

	15900 Jul 07 17:27	0°N		evening rise	15901 Jul 02 16:58	3° Ω 25'58	
evening rise	15900 Jul 22 18:50	23° Ω 40'29		greatest brilliancy	15901 Jul 15 09:40	22° Ω 44'53	-0.7m
	15900 Jul 26 18:30	0° m/y		<i>g.</i> • • • • • • • • • • • • • • • • • • •	15901 Jul 20 10:49	0° m)	
greatest brilliancy	15900 Jul 30 05:45	5° m 28'45	-0.9m	asc. node	15901 Jul 22 20:01	3° mp 10'49	
asc. node	15900 Aug 04 23:17	14° m 15'52		evening max el	15901 Jul 27 06:37	8° mp 18'38	19°22'55
evening max el	15900 Aug 12 21:59	24° m/27'10	18°38'45	retrograde	15901 Aug 03 08:29	12° Mp 14'26	
retrograde	15900 Aug 19 11:08	27° m 59'27		evening set	15901 Aug 06 23:53	10° m 57'35	
evening set	15900 Aug 22 16:40	27° Mp 00'04		inferior conj	15901 Aug 12 09:21	5° m 05'29	2°52'48
inferior conj	15900 Aug 28 08:26	21° m 21'18	2°26'10	minimum elong	15901 Aug 12 10:56	5° m 00'19	2°52'10
minimum elong	15900 Aug 28 10:39	21° Mp 14'29	2°25'27	min. Earth dist.	15901 Aug 13 17:34	3° m 19'46	0.67338 AU
min. Earth dist.	15900 Aug 30 06:48	18° ™ 58'57	0.65811 AU		15901 Aug 16 12:09	30°R Ω	
morning rise	15900 Sep 03 03:32	14° m 56'13		morning rise	15901 Aug 17 21:23	28° Ω 39'07	
desc. node	15900 Sep 06 13:34	12° m 50'53		direct	15901 Aug 23 20:08	26° Ω 05'07	
direct	15900 Sep 09 11:46	12° m 18'26		desc. node	15901 Aug 24 10:59	26° Ω 06'37	
morning max el	15900 Sep 22 16:58	20° m 06'30	26°48'00		15901 Sep 01 09:52	0° m)	
	15900 Oct 01 05:05	0∘ ⊽		morning max el	15901 Sep 05 04:06	3° m/26'59	25°34'45
	15900 Oct 20 23:05	0°M			15901 Sep 25 11:04	0° ⊽	
morning set	15900 Oct 28 10:56	13°M38'15		morning set	15901 Oct 11 02:24	26° ♀ 00'52 0° ル	
asc. node max. Earth dist.	15900 Nov 01 00:44 15900 Nov 01 12:29	20°MJ36'41 21°MJ35'24	1.33936 AU	max. Earth dist.	15901 Oct 13 06:29 15901 Oct 14 16:31	2°MJ39'23	1.35953 AU
max. Earth dist.	15900 Nov 01 12:29 15900 Nov 05 15:03	21 11 6 33 24 0° √	1.33930 AU	asc. node	15901 Oct 14 10:31 15901 Oct 18 21:27	10°ML46'45	1.33933 AU
	13900 1100 03 13.03	· ^		asc. node	13901 Oct 18 21.27	10 1164043	
superior conj	15900 Nov 06 03:46	1° ∡ 06′29	0°45'40	superior conj	15901 Oct 20 20:02	14° M 38'34	0°17'35
minimum elong	15900 Nov 06 01:39	0° х 55′23	0°45'57	minimum elong	15901 Oct 20 18:59	14°ML33'20	0°17'53
evening rise	15900 Nov 13 10:14	16° ∡ ³32′02			15901 Oct 28 08:03	0° ∡ ¹	
	15900 Nov 20 02:15	0°ප		evening rise	15901 Oct 28 17:10	0° ∡ ¹46'50	
desc. node	15900 Dec 03 11:01	19° る 35'17			15901 Nov 15 07:09	5°0	
evening max el	15900 Dec 03 12:00	19° る 37'42	21°31'04	evening max el	15901 Nov 15 13:42	0° る 16'33	20°06'45
retrograde	15900 Dec 15 14:39	25° る 36'58		desc. node	15901 Nov 20 08:08	3°₹58'05	
evening set	15900 Dec 18 14:41	25° ප 16'26		retrograde	15901 Nov 26 02:41	5° ට 31'41	
inferior conj	15900 Dec 27 07:14	21° පි 26'08		evening set	15901 Nov 28 06:17	5° ਰ 19'36	
minimum elong	15900 Dec 27 02:06	21° る 33'19	5°51'38	inferior conj	15901 Dec 07 01:29	1° ට 22'11	
min. Earth dist.	15900 Dec 27 14:14	21° る 16'19	0.54393 AU	minimum elong	15901 Dec 06 15:30	1°る37'10	4°48'08
morning rise	15901 Jan 04 14:01	17° る 37'13		min. Earth dist.	15901 Dec 08 20:24	0°る17'51	0.54869 AU
direct	15901 Jan 08 09:47	17°る05'26	22024100		15901 Dec 09 08:32	30°₹ ⋌ 7	
morning max el	15901 Jan 21 02:53	23° ⋜ 15'33	22°24'00	morning rise	15901 Dec 14 23:51	27° ₹ 16'32 26° ₹ 25'04	
aca mada	15901 Jan 26 23:21 15901 Jan 27 23:50	0° ≈ 1° ≈ 24'19		direct	15901 Dec 19 20:44 15901 Dec 29 16:54	20 x·23 04 0°る	
asc. node morning set	15901 Jan 27 25:30 15901 Feb 11 20:46	1 ≈24 19 28°≈27'36		morning max el	15901 Dec 29 16.34 15902 Jan 02 11:59	0 3 3° ろ 09'32	24012154
morning set	15901 Feb 11 20:40 15901 Feb 12 14:10	0° H		asc. node	15902 Jan 14 21:04	19°る13'54	24 13 34
	13701100 12 14.10	υ Λ		asc. node	15902 Jan 20 22:19	0°≈	
superior conj	15901 Feb 18 21:28	13° ¥ 29'56	1°20'23	morning set	15902 Jan 27 08:45	13°≈10'23	
minimum elong	15901 Feb 18 23:43	13°) (41'49					
max. Earth dist.	15901 Feb 22 16:14	21°) (24′01	1.33947 AU	superior conj	15902 Feb 03 03:46	28° ≈ 00'50	1°32'05
	15901 Feb 26 23:33	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	15902 Feb 03 05:13	28° ≈ 08'45	1°32'28
evening rise	15901 Feb 27 02:29	0° Υ 14'12		_	15902 Feb 04 01:38	0° ∀	
desc. node	15901 Mar 01 11:38	4° Y 46'45		max. Earth dist.	15902 Feb 05 14:21	3° 升 18′20	1.32478 AU
	15901 Mar 16 11:01	9° 8		evening rise	15902 Feb 10 16:48	13°) 57′54	
evening max el	15901 Apr 02 22:59	22° 8 05'29	27°03'17	desc. node	15902 Feb 16 08:17	24°) 54′52	
retrograde	15901 Apr 16 08:59	29° 8 35'37			15902 Feb 19 03:35	$0^{\circ}\Upsilon$	
evening set	15901 Apr 22 22:20	27° 8 04'05			15902 Mar 11 10:53	0° 8	
asc. node	15901 Apr 25 20:53	24° 8 20'30		evening max el	15902 Mar 16 11:42	5° 8 22'22	27°32'34
min. Earth dist.	15901 Apr 26 20:26	23° 8 16'35	0.65641 AU	retrograde	15902 Mar 30 06:40	12° 8 53'10	
inferior conj	15901 Apr 29 02:35	20° 8 41'58	0°59'10	evening set	15902 Apr 06 01:29	10° 8 28'22	
minimum elong	15901 Apr 29 01:06	20° 8 46'13	0°58'04	min. Earth dist.	15902 Apr 09 20:21	7° 8 10'48	0.63738 AU
morning rise	15901 May 05 05:24	15° 8 09'29		inferior conj	15902 Apr 12 14:09	4° 8 21'25	
direct	15901 May 14, 00:00	14° 8 25'52 17° 8 42'54	18°03'10	minimum elong transit middle	15902 Apr 12 14:15	4° 8 21'08 4° 8 21'08	0°03'32 0°03'32
morning max el	15901 May 14 09:00 15901 May 23 14:54	1/° O 42′54 0° I I	10 03 10	transit middle transit begin	15902 Apr 12 14:15 15902 Apr 12 11:11	4° 8 21'08	0 03 32
desc. node	15901 May 23 14:54 15901 May 28 12:50	0 П 7° П 48'48		transit end	15902 Apr 12 17:19	4° 8 13'13	
morning set	15901 May 28 12.30 15901 Jun 01 21:19	14° I I52'44		asc. node	15902 Apr 12 17:19 15902 Apr 12 18:11	4° 8 10'59	
morning set	15901 Jun 11 06:36	0°9		abe. Houe	15902 Apr 17 11:23	4 ℃ 10 39	
	-5,51 tun 11 00.50	· •		morning rise	15902 Apr 17 11:25 15902 Apr 19 05:25	29° Υ 03'56	
superior conj	15901 Jun 16 13:58	8°523'46	-1°58'31	direct	15902 Apr 21 16:59	28° Y 33'24	
minimum elong	15901 Jun 16 06:01		1°58'46		15902 Apr 25 21:33	0°8	
max. Earth dist.	15901 Jun 19 09:54	12° © 49'59	1.45857 AU	morning max el	15902 Apr 28 02:27	1° 8 49'15	17°47'32
	15901 Jun 30 11:30	$0^{\circ}\Omega$		morning set	15902 May 14 18:23	26° 8 56'59	

desc. node	15902 May 15 09:43 15902 May 16 13:27	28° ႘ 02'12 0° 川		desc. node	15903 May 02 06:30	18° 8 26'01	
	13702 Way 10 13.27	о д		superior conj	15903 May 08 17:29	29° 8 38'06	-0°50'49
superior conj	15902 May 27 16:14	18° Ⅱ 29'10	-1°28'13	minimum elong	15903 May 08 12:50	29° 8 18'20	
minimum elong	15902 May 27 08:12	17° Ⅱ 56'32	1°28'04	8	15903 May 08 22:38	0° I I	
max. Earth dist.	15902 Jun 02 05:26	27° Ⅱ 22'46	1.45031 AU	max. Earth dist.	15903 May 15 21:09	11° Ⅲ 30′51	1.43556 AU
	15902 Jun 03 21:16	0°ಅ		evening rise	15903 May 22 19:53	22° Ⅲ 33'35	
evening rise	15902 Jun 12 03:50	12°549'56		•	15903 May 27 15:54	0°€	
•	15902 Jun 23 13:58	$0^{\circ}\Omega$			15903 Jun 17 21:03	$0^{\circ}\Omega$	
asc. node	15902 Jul 09 16:49	21° Ω 30′01		evening max el	15903 Jun 23 06:16	6° Ω 05'45	21°33'42
evening max el	15902 Jul 10 09:27	22° Ω 12′27	20°22'07	asc. node	15903 Jun 26 13:44	9° Ω 00'37	
retrograde	15902 Jul 18 07:30	26° Ω 43′26		retrograde	15903 Jul 02 06:13	11° Ω 19'53	
evening set	15902 Jul 22 09:19	25° Ω 08'43		evening set	15903 Jul 06 19:01	9° £ 28′02	
inferior conj	15902 Jul 27 15:30	19° Ω 04'32	3°06'18	inferior conj	15903 Jul 12 00:35	3° £ 13′17	3°08'17
minimum elong	15902 Jul 27 16:10	19° Ω 02'13	3°05'41	minimum elong	15903 Jul 12 00:18	3° Ω 14'17	3°07'34
min. Earth dist.	15902 Jul 28 09:51	18° Ω 01'41	0.68414 AU	min. Earth dist.	15903 Jul 12 05:34	2° Ω 55'53	0.69008 AU
morning rise	15902 Aug 01 22:42	12° Ω 41′05			15903 Jul 14 09:35	30° ₹જી	
direct	15902 Aug 07 10:04	10° Ω 17'44		morning rise	15903 Jul 17 05:21	26° © 55'25	
desc. node	15902 Aug 11 08:21	11° Ω 18′25		direct	15903 Jul 22 04:31	24° © 47'38	
morning max el	15902 Aug 18 15:01	16° Ω 59'36	24°08'53	desc. node	15903 Jul 29 05:41	28° © 01'08	
	15902 Aug 29 10:56	0° ™			15903 Jul 31 10:48	$0 {\circ} \Omega$	
	15902 Sep 18 11:03	0∘ ⊽		morning max el	15903 Aug 01 03:07	0° Ω 40'14	22°39'41
morning set	15902 Sep 22 23:15	7° ≏ 34'53			15903 Aug 23 06:41	0° m	
max. Earth dist.	15902 Sep 26 15:37	14° ≏ 01'21	1.38288 AU	morning set	15903 Sep 03 21:32	18° m 11'09	
				max. Earth dist.	15903 Sep 08 15:39	26° Mp 05'17	1.40684 AU
superior conj	15902 Oct 04 00:20	27° Ω 36'37			15903 Sep 10 22:36	0∘ ⊽	
minimum elong	15902 Oct 04 01:24	27° Ω 41'41	0°15'06				
behind sun begin	15902 Oct 03 22:54	27° Ω 29'47		superior conj	15903 Sep 16 12:33	9° £ 50'56	
behind sun end	15902 Oct 04 03:53	27° Ω 53'35		minimum elong	15903 Sep 16 16:38	10° Ω 09'22	0°51'12
	15902 Oct 05 06:14	0°M		asc. node	15903 Sep 22 14:50	21° Ω 05'09	
asc. node	15902 Oct 05 18:09	0°M57'31		evening rise	15903 Sep 26 11:37	28° ≏ 22'59	
evening rise	15902 Oct 12 18:41	14°M46'36			15903 Sep 27 08:09	0°M	10022140
	15902 Oct 20 20:08	0° √ 110. ₹ 45!00	10904112	evening max el	15903 Oct 12 09:34		18°23'48
evening max el retrograde	15902 Oct 29 05:47	11° х 45′00 16° х 15′33	19°04'12	retrograde evening set	15903 Oct 20 01:53 15903 Oct 22 02:00	27°M54'37 27°M39'22	
desc. node	15902 Nov 07 04:46 15902 Nov 07 05:19	16° x 15'33		desc. node	15903 Oct 25 02:35	27 1163922 26°M24'11	
evening set	15902 Nov 09 01:58	16° ₹ 13 33		inferior conj	15903 Oct 29 19:00	23°M03'58	-1°30'26
inferior conj	15902 Nov 17 11:28	11° х 49'49	-3°14'04	minimum elong	15903 Oct 29 15:30		1°28'25
minimum elong	15902 Nov 17 11:28 15902 Nov 17 03:32	12° × ⁷ 03'28		min. Earth dist.	15903 Nov 02 00:47		0.58134 AU
min. Earth dist.	15902 Nov 20 06:57	9° x 54'13	0.56194 AU	morning rise	15903 Nov 06 01:30	17°M48'04	0.50154710
morning rise	15902 Nov 25 02:27	7° √ 11'04	0.00191110	direct	15903 Nov 12 08:49	16°M04'58	
direct	15902 Nov 30 19:27	5° ₹ 755'05		morning max el	15903 Nov 26 15:39	23°M40'00	27°13'48
morning max el	15902 Dec 14 22:13	13° ∡ °07'29	25°56'42		15903 Dec 02 09:19	0° ₹ ¹	
5 5	15902 Dec 28 02:42	ರ°ರ		asc. node	15903 Dec 19 15:23	26° ₹ 57'23	
asc. node	15903 Jan 01 18:16	7° る 48'52			15903 Dec 21 05:33	8°0	
morning set	15903 Jan 11 20:02	27° ප් 47'01		morning set	15903 Dec 27 04:53	12° る 12'43	
	15903 Jan 12 20:35	0° ≈					
				superior conj	15904 Jan 03 01:02	27° る 17'56	1°37'03
superior conj	15903 Jan 18 13:37	12° ≈ 38'44	1°37'35	minimum elong	15904 Jan 03 00:25	27° る 14'27	1°37'47
minimum elong	15903 Jan 18 14:03	12° ≈ 41′09	1°38'13	max. Earth dist.	15904 Jan 03 02:03	27° る 23'40	1.31029 AU
max. Earth dist.	15903 Jan 19 18:37	15° ≈ 19'43	1.31493 AU		15904 Jan 04 05:59	0° ≈	
evening rise	15903 Jan 25 15:28	28° ≈ 00'42		evening rise	15904 Jan 09 20:07	12° ≈ 16′58	
	15903 Jan 26 14:27	0° ∀			15904 Jan 18 17:52	0° ∀	
desc. node	15903 Feb 03 04:57	14°) √ 44'36		desc. node	15904 Jan 21 01:42	4° ₩ 08'45	
	15903 Feb 12 09:45	0° Υ		evening max el	15904 Feb 09 00:28		26°55'28
evening max el	15903 Feb 26 21:00	18° Y ′03′02	27°31'17	_	15904 Feb 09 01:45	0°Υ	
retrograde	15903 Mar 12 20:30	25° Y ′28′09		retrograde	15904 Feb 23 01:13	7° Y 12′07	
evening set	15903 Mar 19 15:58	23°Υ17'25	0.615== :==	evening set	15904 Feb 29 14:38	5° Υ 22'50	0.50000
min. Earth dist.	15903 Mar 23 10:32	20°Υ23'35		min. Earth dist.	15904 Mar 04 14:35		0.59322 AU
inferior conj	15903 Mar 26 13:07	17° Υ 33'38		inferior conj	15904 Mar 07 19:51	0°Υ09'24	
minimum elong	15903 Mar 26 15:55		1°18'11	minimum elong	15904 Mar 08 02:10	29°) ₹56'48	Z~43'43
asc. node	15903 Mar 30 15:33	14°Υ10'06			15904 Mar 08 00:34	30° ₹ ₩	
morning rise	15903 Apr 02 19:06	12° Υ 34'02		morning rise	15904 Mar 15 17:15	25° ₩ 30'07	
direct	15903 Apr 04 23:31	12° Υ 13'13 15° Υ 39'30	17°49'41	asc. node direct	15904 Mar 16 12:56	25° ∺ 20'34 25° ∺ 15'27	
morning max el	15903 Apr 11 19:32 15903 Apr 21 20:47	0° ႘	1/4741		15904 Mar 17 16:57 15904 Mar 25 08:45		18°10'45
morning set	15903 Apr 21 20:47 15903 Apr 27 13:06	10° 8 01'13		morning max el	15904 Mar 26 06:36	29°π03′38 0° Υ	10 1043
morning sot	10,00 ripi 2/ 10.00	00113			1570 : 14101 20 00.30	V 1	

morning set	15904 Apr 09 23:41 15904 Apr 13 06:56	23°Ƴ48'48 0°℧		morning rise	15905 Feb 25 17:02 15905 Feb 27 17:03	7°) 39'48 7°) 27'25	
desc. node	15904 Apr 18 03:14	8° 8 56'21		asc. node	15905 Mar 03 10:19	8° ¥ 12'46	10052120
superior conj	15004 Apr. 10 17:20	11° 8 48'55	0912100	morning max el	15905 Mar 08 13:51 15905 Mar 20 16:36	11°) 48′19 0° ℃	18°52'38
minimum elong	15904 Apr 19 17:29 15904 Apr 19 16:24	11° 8 44'06		morning set	15905 Mar 24 21:15	8° Υ 04'24	
behind sun begin	15904 Apr 19 12:16	11° 8 25'33	0 13 20	morning set	13703 Widi 24 21.13	0 10424	
behind sun end	15904 Apr 19 20:32	12° 8 02'37		superior conj	15905 Apr 02 12:17	24° Y '49'30	0°20'46
max. Earth dist.	15904 Apr 27 07:57	25° 8 02'05	1.41597 AU	minimum elong	15905 Apr 02 13:36	24° Y ′55'44	0°20'17
	15904 Apr 30 07:36	0° Ⅱ		desc. node	15905 Apr 04 23:54	29° Y ′28'42	
evening rise	15904 May 02 05:24	3° Ⅱ 06'42			15905 Apr 05 06:41	0° 8	
	15904 May 19 23:30	0 \circ \odot		max. Earth dist.	15905 Apr 09 14:57	7° 8 51'10	1.39357 AU
evening max el	15904 Jun 04 22:35	19° © 59'31	22°53'13	evening rise	15905 Apr 13 12:10	14° 8 35'09	
asc. node	15904 Jun 12 10:43	25° 5 27'10			15905 Apr 23 00:09	Π $^{\circ}0$	
retrograde	15904 Jun 15 03:02	25° © 58'15			15905 May 14 20:42	0 \circ	
evening set	15904 Jun 20 03:17	23°950'59		evening max el	15905 May 18 12:37	3° © 54'34	24°14'41
inferior conj	15904 Jun 25 10:35	17°527'44	2°59'38	retrograde	15905 May 29 20:33	10°S32'27	
minimum elong	15904 Jun 25 09:25	17°531'48	2°58'42	asc. node	15905 May 30 07:47	10°931'31	
min. Earth dist.	15904 Jun 25 02:34	17°955'36	0.69116 AU	evening set	15905 Jun 04 08:27	8°512'31	0.60727 ATT
morning rise direct	15904 Jun 30 15:25 15904 Jul 05 02:22	11° © 17'19 9° © 28'00		min. Earth dist.	15905 Jun 08 22:37	2° © 54'28 1° © 43'38	0.68737 AU 2°40'31
morning max el	15904 Jul 13 19:00		21°15'14	inferior conj minimum elong	15905 Jun 09 19:34 15905 Jun 09 17:43	1°9549'53	
desc. node	15904 Jul 15 02:56	14 3 29 22	21 13 14	minimum clong	15905 Jun 11 02:38	1 3 49 33	2 39 21
dese. Hode	15904 Jul 26 05:04	0°Ω		morning rise	15905 Jun 15 03:03	25° II 42'07	
morning set	15904 Aug 13 20:07	27° Ω 47'26		direct	15905 Jun 19 02:11	24° I I12'31	
	15904 Aug 15 05:50	0° mp		morning max el	15905 Jun 26 17:15	28° ∏ 28'50	20°01'43
max. Earth dist.	15904 Aug 20 21:02		1.42864 AU	5 5	15905 Jun 28 04:21	0° ©	
	Č	•		desc. node	15905 Jul 02 00:06	4° © 33'34	
superior conj	15904 Aug 28 04:18	21°Mp12'17	-1°27'49		15905 Jul 19 16:19	$0^{\circ}\Omega$	
minimum elong	15904 Aug 28 11:21	21°Mp42'21	1°27'08	morning set	15905 Jul 24 02:03	6° Ω 43'24	
	15904 Sep 02 06:07	0∘ ⊽		max. Earth dist.	15905 Aug 03 09:20	22° N 48'04	1.44578 AU
asc. node	15904 Sep 08 11:29	11° ≏ 06'02			15905 Aug 07 21:10	0° ™	
evening rise	15904 Sep 08 15:52	11° ≏ 25'43					
	15904 Sep 19 11:26	0°M	1000 402	superior conj	15905 Aug 08 20:40	1° m 35'12	
evening max el	15904 Sep 24 20:51	6°M53'30	18°04'03	minimum elong	15905 Aug 09 04:08		1°57'17
retrograde evening set	15904 Oct 01 16:45 15904 Oct 03 23:48	10°M24'03 10°M00'29		evening rise	15905 Aug 22 02:23 15905 Aug 25 18:56	23° ™ 42'08 0° ⊆	
inferior conj	15904 Oct 03 23:48 15904 Oct 10 23:25	5°M04'26	0°00'24	asc. node	15905 Aug 26 08:09	0° £ 56'09	
minimum elong	15904 Oct 10 23:26	5°M04'22	0°00'46	evening max el	15905 Aug 20 08:09 15905 Sep 08 11:28	0 <u>□</u> 3009 20° <u>□</u> 13'57	18°03'24
transit middle	15904 Oct 10 23:26	5°M04'22	0°00'46	retrograde	15905 Sep	23° Ω 34'41	10 03 2 1
transit begin	15904 Oct 10 20:08	5°M12'04		evening set	15905 Sep 17 12:41	22° ₽ 59'12	
transit end	15904 Oct 11 02:44	4°M56'39		inferior conj	15905 Sep 23 21:13	17° ≏ 44'33	1°11'49
desc. node	15904 Oct 10 23:55	5°M03'15		minimum elong	15905 Sep 23 23:04	17° ≏ 39'38	1°11'20
min. Earth dist.	15904 Oct 14 03:33	2°M08'21	0.60391 AU	min. Earth dist.	15905 Sep 26 16:10	14° ≏ 48'27	0.62669 AU
	15904 Oct 16 18:47	30° ₹ Ω		desc. node	15905 Sep 27 21:17	13° ≏ 37'12	
morning rise	15904 Oct 17 19:54	29° ≏ 17'18		morning rise	15905 Sep 30 07:09	11° ≏ 35'36	
direct	15904 Oct 24 11:01	27° ჲ 09'26		direct	15905 Oct 06 23:29	9° 亚 09'39	
	15904 Nov 01 15:42	0° M		morning max el	15905 Oct 21 00:13	17° ≏ 07'41	27°54'52
morning max el	15904 Nov 07 16:55	5°M00'03	27°53'55		15905 Oct 31 17:40	0° M ₊	
,	15904 Nov 26 08:24	0° ₹ ¹		,	15905 Nov 19 02:48	0°×7	
asc. node	15904 Dec 05 12:23	16° ∡ 730'04		asc. node	15905 Nov 22 09:19	6°×720'13	
morning set	15904 Dec 10 09:16 15904 Dec 12 02:21	26°♂22'01 0°る		morning set max. Earth dist.	15905 Nov 24 07:07 15905 Nov 29 11:45	10° ₹ 10'33 21° ₹ 06'09	1.31782 AU
max. Earth dist.	15904 Dec 16 08:57	0 8 9° 8 21'26	1.31123 AU	max. Earth dist.	13903 NOV 29 11.43	21 × 00 09	1.31/62 AU
max. Earth tist.	13904 DCC 10 08.37	9 021 20	1.31123 AO	superior conj	15905 Dec 01 20:50	26° ∡ 17'26	1°17'54
superior conj	15904 Dec 17 12:03	11° る 52'22	1°30'29	minimum elong	15905 Dec 01 18:39	26° × 17 20 26° × 05'25	1°18'25
minimum elong	15904 Dec 17 10:30	11° る 43'43	1°31'10		15905 Dec 03 13:14	0°중	
evening rise	15904 Dec 24 04:36	26° ප් 41'04		evening rise	15905 Dec 08 15:08	11° ප් 09'06	
5 -	15904 Dec 25 17:47	0° ≈		5 -	15905 Dec 18 01:24	0°≈	
desc. node	15905 Jan 06 22:31	22° ≈ 56'59		desc. node	15905 Dec 24 19:23	10° ≈ 56'37	
	15905 Jan 11 14:11	0° ∀		evening max el	15906 Jan 02 07:47	21° ≈ 12'30	24°10'46
evening max el	15905 Jan 20 19:58	10°) 57′39	25°45'46	retrograde	15906 Jan 15 21:52	27° ≈ 57'34	
retrograde	15905 Feb 03 18:21	17° ¥ 59′27		evening set	15906 Jan 20 21:57	27° ≈ 03'04	
evening set	15905 Feb 09 17:38	16°) ₹37'01		min. Earth dist.	15906 Jan 26 19:25	24°≈07'36	0.55528 AU
min. Earth dist.	15905 Feb 14 08:58		0.57208 AU	inferior conj	15906 Jan 28 20:22	22°≈53'39	
inferior conj	15905 Feb 17 06:43	11°) 57'45		minimum elong	15906 Jan 29 04:15	22°≈41'42	5°27'53
minimum elong	15905 Feb 17 15:51	11°) 42' 00	4~12'46	morning rise	15906 Feb 06 12:22	18° ≈ 55'07	

direct	15906 Feb 08 21:39	18° ≈ 40'23			15907 Jan 14 21:04	30°R₹	
asc. node	15906 Feb 18 07:40	22° ≈ 48'53		morning rise	15907 Jan 17 04:46	29° ප 16'55	
morning max el	15906 Feb 19 06:39	23° ≈ 42'10	19°57'21	direct	15907 Jan 20 09:48	28° る 53'40	
	15906 Feb 24 12:28	0° ∀			15907 Jan 25 15:40	0° ≈	
morning set	15906 Mar 09 02:04	22°) 37′12		morning max el	15907 Feb 01 08:32	4° ≈ 39'24	21°25'08
-	15906 Mar 12 16:53	$0^{\circ}\Upsilon$		asc. node	15907 Feb 05 04:58	8° ≈ 54'35	
					15907 Feb 17 21:45	0°) €	
superior conj	15906 Mar 16 21:33	8° Y 28'08	0°48'58	morning set	15907 Feb 21 11:22	7°) 19′03	
minimum elong	15906 Mar 16 23:57	8° Y 40'06	0°48'32				
desc. node	15906 Mar 22 20:33	19° Ƴ 59'36		superior conj	15907 Feb 28 17:24	22° ∺ 34'17	1°10'47
max. Earth dist.	15906 Mar 22 21:35	20° Y ′04'26	1.37077 AU	minimum elong	15907 Feb 28 19:54	22°) 47′16	1°10'37
evening rise	15906 Mar 26 14:47	26° Y ′53'00			15907 Mar 04 08:34	0° Y	
	15906 Mar 28 08:57	$0^{\circ}S$		max. Earth dist.	15907 Mar 05 08:00	1° Y 57'00	1.34984 AU
	15906 Apr 16 11:03	Π °0		evening rise	15907 Mar 09 09:57	9° Ƴ 51'21	
evening max el	15906 May 01 02:08	17° Ⅱ 48'48	25°31'06	desc. node	15907 Mar 09 17:11	10° Y 25'24	
retrograde	15906 May 13 09:45	24° Ⅱ 56'07			15907 Mar 20 22:29	0°8	
asc. node	15906 May 17 04:54	23° Ⅱ 57'03			15907 Apr 12 01:39	Π °0	
evening set	15906 May 19 08:52	22° Ⅲ 27′13		evening max el	15907 Apr 13 15:47	1° Ⅱ 36′11	26°35'04
min. Earth dist.	15906 May 23 15:33	17° Ⅱ 46'01	0.67882 AU	retrograde	15907 Apr 26 17:49	9° Ⅱ 01'46	
inferior conj	15906 May 25 01:34	15° ∐ 56'38	2°10'34	evening set	15907 May 03 02:44	6° Ⅲ 29'06	
minimum elong	15906 May 24 23:23	16° Ⅱ 03'39	2°09'14	asc. node	15907 May 04 02:05	5° Ⅱ 38'29	
morning rise	15906 May 30 14:22	10° Ⅲ 05'21		min. Earth dist.	15907 May 07 03:25	2° Ⅲ 23'02	0.66573 AU
direct	15906 Jun 03 02:21	8° Ⅱ 55'08		inferior conj	15907 May 09 02:27	0° I 02'00	1°28'55
morning max el	15906 Jun 09 22:53	12° Ⅲ 38′08	19°02'47	minimum elong	15907 May 09 00:30	0° Ⅱ 07'52	1°27'38
desc. node	15906 Jun 18 21:11	23° Ⅱ 51'59			15907 May 09 03:07	30° ₹ 8	
greatest brilliancy	15906 Jun 23 00:09	29° Ⅱ 56'05	-0.7m	morning rise	15907 May 14 23:22	24° 8 22'23	
	15906 Jun 23 01:11	0°©		direct	15907 May 18 00:58	23° 8 29'54	
morning set	15906 Jul 03 09:02	15° © 47'40		morning max el	15907 May 24 10:57	26° 8 52'45	18°20'09
The state of	15906 Jul 12 13:06	0° Ω	1 45655 477		15907 May 27 06:48	0°П	
max. Earth dist.	15906 Jul 17 03:07	7° Ω 09'01	1.45655 AU	desc. node	15907 Jun 05 18:12	13° Ⅱ 37'41	
	15006 1 1 10 15 44	110 000144	2012110	morning set	15907 Jun 13 11:44	25° Ⅱ 50'57	
superior conj	15906 Jul 19 15:44	11° Ω 06'44			15907 Jun 16 02:31	0ං ව	
minimum elong	15906 Jul 19 18:20	11° Ω 16'59	2-13-47		15007 I 20 00:40	2006-10147	2800120
evening rise	15906 Jul 31 12:07 15906 Aug 03 14:02	0° т) 4° т) 59'36		superior conj minimum elong	15907 Jun 29 00:49 15907 Jun 28 19:42	20°518'46 19°558'50	2°10'04
asc. node	15906 Aug 03 14.02 15906 Aug 13 04:49	20° m 30'00		max. Earth dist.	15907 Jun 28 19.42 15907 Jun 29 23:18	21°546'26	1.45996 AU
asc. nouc	15906 Aug 19 17:20	ე∘ ⊽		max. Earth dist.	15907 Jul 05 06:03	0°Ω	1.43990 AU
evening max el	15906 Aug 13 17:20 15906 Aug 23 01:51	ა <u>—</u> 3° ჲ 51'44	18°20'48	evening rise	15907 Jul 15 00:45	15° Ω 15'18	
retrograde	15906 Aug 29 11:15	7° ≏ 16'08	10 20 40	evening rise	15907 Jul 24 12:20	0° m)	
evening set	15906 Sep 01 11:27	6° £ 26'01		greatest brilliancy	15907 Jul 24 22:12	0° mp 37'46	-0.8m
inferior conj	15906 Sep 07 08:19		2°04'00	asc. node	15907 Jul 31 01:32	9° m) 41'48	0.011
minimum elong	15906 Sep 07 10:39	0° ჲ 48'20	2°03'16	evening max el	15907 Aug 06 13:10	17° m) 40'03	18°55'27
mmmum viong	15906 Sep 08 03:02	30°R.M)	2 03 10	retrograde	15907 Aug 13 06:51	21° m/21'09	10 00 27
min. Earth dist.	15906 Sep 09 14:30	28° m) 16'45	0.64755 AU	evening set	15907 Aug 16 16:26	20° m) 14'29	
morning rise	15906 Sep 13 08:23	24° m/33'39		inferior conj	15907 Aug 22 05:08	14° m) 29'38	2°39'11
desc. node	15906 Sep 14 18:40	23° m/32'05		minimum elong	15907 Aug 22 07:07	14° m) 23'18	2°38'30
direct	15906 Sep 19 20:36	21° m) 57'57		min. Earth dist.	15907 Aug 23 21:24	12° m) 21'54	0.66513 AU
morning max el	15906 Oct 03 10:57	29° m 53'22	27°20'41	morning rise	15907 Aug 27 20:57	8° m 03'06	
-	15906 Oct 03 13:35	0∘ <u>⊽</u>		desc. node	15907 Sep 01 16:04	5° m) 33'33	
	15906 Oct 25 16:54	0° M		direct	15907 Sep 03 01:18	5° m 26'09	
morning set	15906 Nov 07 19:48	23°M31'43		morning max el	15907 Sep 15 22:34	13° m 05'21	26°18'58
asc. node	15906 Nov 09 06:10	26°M21'37			15907 Sep 29 15:10	0∘ ত	
	15906 Nov 11 01:27	0° ∡ ¹			15907 Oct 18 09:21	0° M	
max. Earth dist.	15906 Nov 12 06:50	2° ∡ ³30'55	1.33000 AU	morning set	15907 Oct 21 20:08	6°M18′42	
				max. Earth dist.	15907 Oct 25 16:03	13°M37'59	1.34745 AU
superior conj	15906 Nov 16 01:12	10° х 26′48	0°59'11	asc. node	15907 Oct 27 02:57	16°M29'56	
minimum elong	15906 Nov 15 22:52	10° ∡ 14'17	0°59'31				
evening rise	15906 Nov 23 01:49	25° ∡ ³35'45		superior conj	15907 Oct 30 22:44	24°M14'36	0°34'26
	15906 Nov 25 03:50	0°ಕ		minimum elong	15907 Oct 30 20:58	24°M05'26	0°34'41
desc. node	15906 Dec 11 16:21	27° る 49'58			15907 Nov 02 17:11	0° ∡ ′	
	15906 Dec 13 14:53	0° ≈		evening rise	15907 Nov 07 10:45	9° х 56′30	
evening max el	15906 Dec 14 17:35	1° ≈ 07'35	22°27'13		15907 Nov 17 22:06	0°ಕ	
retrograde	15906 Dec 27 13:09	7° ≈ 28'03		evening max el	15907 Nov 26 11:26	11° る 22'14	20°52'38
evening set	15906 Dec 31 06:33	6°≈57'35		desc. node	15907 Nov 28 13:24	13°る15'02	
min. Earth dist.	15907 Jan 08 01:21	3°≈26′12	0.54551 AU	retrograde	15907 Dec 07 23:12	17°る04'12	
inferior conj	15907 Jan 08 16:51	3°≈04'26		evening set	15907 Dec 10 12:30	16°る48'32	5022114
minimum elong	15907 Jan 08 17:06	3°≈04'04	6°01'03	inferior conj	15907 Dec 19 07:42	12° る 56'30	-5~53'14

minimum elong	15907 Dec 18 23:33	13° ろ 08'08	5021101	evening set	15908 Nov 19 15:08	27° ∡ '07'28	
min. Earth dist.	15907 Dec 18 25:55 15907 Dec 20 06:50	13 00000 12° ろ 23'25	0.54477 AU	inferior conj	15908 Nov 28 07:34	27 × 07 28 23° × 04'06	4012142
morning rise	15907 Dec 27 10:40	9° る 02'41	0.34477 AU	minimum elong	15908 Nov 27 21:49	23° x 19'30	4°08'52
direct	15907 Dec 27 10.40 15907 Dec 31 17:08	9 30241 8° 3 23'28		min. Earth dist.		23 x 1930 21° x 36'45	0.55337 AU
		8 023 28 14° る 49'34	22010120		15908 Nov 30 14:54	18° x ⁷ 45'25	0.33337 AU
morning max el	15908 Jan 13 21:45	14°849'34 26° る 11'29	23°10'30	morning rise	15908 Dec 06 02:44		
asc. node	15908 Jan 23 02:15			direct	15908 Dec 11 08:58	17° х 43'45	24950129
	15908 Jan 25 12:03	0° ≈		morning max el	15908 Dec 25 06:18	24° √ 41'40	24°59′38
morning set	15908 Feb 05 22:55	22°≈03'08		1	15908 Dec 30 03:28	0°る	
	15908 Feb 09 15:18	0°) €		asc. node	15909 Jan 08 23:29	14° る 22'35	
	15000 F 1 12 20 20	60 V 50120	100 (107		15909 Jan 17 06:10	0° ≈	
superior conj	15908 Feb 12 20:39	6° ¥ 58'39	1°26'07	morning set	15909 Jan 20 10:50	6° ≈ 44′20	
minimum elong	15908 Feb 12 22:36	7°) (09'08	1°26'19		15000 I 27 04 46	2102402	1025100
max. Earth dist.	15908 Feb 16 01:23	13°) (46'18	1.33255 AU	superior conj	15909 Jan 27 04:46	21°≈34'03	1°35'09
evening rise	15908 Feb 20 18:12	23° ¥ 20′58 0° Ƴ		minimum elong	15909 Jan 27 05:48	21°≈39'45	1°35'40
	15908 Feb 24 04:58	0° Υ 41'27		max. Earth dist.	15909 Jan 29 02:17	25° ≈ 43'39	1.31993 AU
desc. node	15908 Feb 24 13:49				15909 Jan 31 01:42	0°){	
	15908 Mar 13 13:50	0°8	27010100	evening rise	15909 Feb 03 12:28	7°) 14'27	
evening max el	15908 Mar 26 05:08	15° 8 07'12	27°19'09	desc. node	15909 Feb 10 10:30	20°) 43′02	
retrograde	15908 Apr 08 19:50	22° 8 39'39			15909 Feb 15 17:14	0°Υ	2502 (100
evening set	15908 Apr 15 11:58	20° 8 09'49	0.64062.477	evening max el	15909 Mar 08 16:46	28° Y 10'48	27°36'09
min. Earth dist.	15908 Apr 19 08:16	16° 8 35'48	0.64863 AU		15909 Mar 10 16:45	0°8	
asc. node	15908 Apr 19 23:21	15° 8 55'10		retrograde	15909 Mar 22 14:33	5° 8 40'17	
inferior conj	15908 Apr 21 19:42	13° 8 52'58	0°34'23	evening set	15909 Mar 29 10:06	3° 8 20'45	
minimum elong	15908 Apr 21 18:46	13° 8 55'32	0°33'33	min. Earth dist.	15909 Apr 02 04:24	0° 8 13'55	0.62838 AU
morning rise	15908 Apr 28 03:31	8° 8 26'48			15909 Apr 02 10:16	30° ₹ Υ	
direct	15908 Apr 30 19:46	7° 8 49'17		inferior conj	15909 Apr 05 02:22	27° Y ′22'19	
morning max el	15908 May 07 03:14	11° 8 04'36	17°54'26	minimum elong	15909 Apr 05 03:29	27°Υ19'34	0°33'39
	15908 May 20 09:10	0°Ⅱ 20Ⅲ 4212.4		asc. node	15909 Apr 06 20:40	25° Y 40'53 22° Y 11'56	
desc. node	15908 May 22 15:06	3° ∏ 42'34		morning rise	15909 Apr 11 23:40	22°°° 11'56 21°° 46'03	
morning set	15908 May 24 17:45	7° Ⅱ 12'15		direct	15909 Apr 14 07:52		17046100
	15000 I 07 16 45	200T54124	1047105	morning max el	15909 Apr 20 20:54	25° Y 05'19	17°46'09
superior conj	15908 Jun 07 16:45	29° Ⅱ 54'34			15909 Apr 24 23:34	0°8	
minimum elong	15908 Jun 07 08:05		1°47'06	morning set	15909 May 07 00:44	19° 8 44'08	
T at 11 a	15908 Jun 07 18:07	0°©	1 4550C ATT	desc. node	15909 May 09 11:58	24° 8 01'01	
max. Earth dist.	15908 Jun 11 19:11	6°523'10	1.45586 AU		15909 May 12 23:26	Π $^{\circ}$ 0	
evening rise	15908 Jun 23 16:07 15908 Jun 27 02:21	24° © 46′09 0° Ω			15909 May 19 04:20	10° Ⅲ 25'48	1912146
araataat brillianay		16°Ω22'02	0.6	superior conj	,	9° I I57'41	
greatest brilliancy	15908 Jul 08 00:52 15908 Jul 16 22:19	28° Ω 23'10	-0.6m	minimum elong max. Earth dist.	15909 May 18 21:32		1°12'35 1.44477 AU
asc. node	15908 Jul 18 08:01	0° m)		max. Earth dist.	15909 May 25 12:54 15909 May 31 09:36	20 π 43 39	1.444// AU
evening max el	15908 Jul 19 19:25	1°Mp33'00	19°46'21	evening rise	15909 Jun 03 03:09	4°9513'22	
retrograde	15908 Jul 19 19.25 15908 Jul 27 05:15	5° Mp 42'53	19 40 21	evening rise	15909 Jun 20 12:41	4 3 13 22	
evening set	15908 Jul 27 03:13	4° Mg 18'38		evening max el	15909 Jul 02 19:42	15° Ω 27'02	20°51'22
evening set	15908 Jul 31 00.33	4 11/10 30 30°RΩ		asc. node	15909 Jul 02 19:42 15909 Jul 03 19:10	$16^{\circ}\Omega 23'29$	20 31 22
inferior conj	15908 Aug 04 02:48 15908 Aug 05 08:37	28° Ω 21'16	3°00'01	retrograde	15909 Jul 11 04:15	20°Ω15'29	
minimum elong	15908 Aug 05 08:57 15908 Aug 05 09:50	$28^{\circ}\Omega 17'12$	2°59'23	evening set	15909 Jul 15 10:39	18°Ω33'31	
min. Earth dist.	15908 Aug 05 09:50 15908 Aug 06 10:57	26° Ω 52'58	0.67852 AU	inferior conj	15909 Jul 20 16:17	$12^{\circ}\Omega 24'53$	3°08'28
morning rise	15908 Aug 10 18:18	20 λ 252 38 21° Ω 55'27	0.07832 AU	minimum elong	15909 Jul 20 16:33	$12^{\circ}\Omega 23'59$	3°07'49
direct	15908 Aug 16 12:21	19° Ω 25'03		min. Earth dist.	15909 Jul 21 04:58	$11^{\circ} \Omega 40'57$	0.68728 AU
desc. node	15908 Aug 10 12:21 15908 Aug 18 13:26	19° Ω 41'31		morning rise	15909 Jul 25 22:09	6°Ω03'32	0.08728 AU
morning max el	15908 Aug 18 15:20 15908 Aug 28 09:36	26°Ω32'12	24°50'07	direct	15909 Jul 31 04:29	3°Ω46'03	
morning max ci	15908 Aug 28 05:30 15908 Aug 31 14:39	0° m)	24 3907	desc. node	15909 Aug 05 10:48	5° Ω 34'49	
	15908 Sep 22 04:53	0∘ ত المار		morning max el	15909 Aug 05 10.48 15909 Aug 10 20:32	$10^{\circ}\Omega 07'35$	23°30'45
mamina aat	15908 Oct 03 04:19	0 = 18° £ 22'46		morning max er	•	0°m)	23 30 43
morning set max. Earth dist.	13900 OCL 03 04.19	18 == 22 40				עוו ט	
max. Earth dist.		24° Q 45'02	1 36017 AII	morning set	15909 Aug 26 14:42	20° m 33'00	
	15908 Oct 06 16:58	24° Ω 45'02	1.36917 AU	morning set	15909 Sep 14 15:57	29° m 33'09	
asa nada	15908 Oct 06 16:58 15908 Oct 09 12:26	0°M	1.36917 AU	-	15909 Sep 14 15:57 15909 Sep 14 22:20	0∘ ⊽	1 20217 AII
asc. node	15908 Oct 06 16:58		1.36917 AU	morning set max. Earth dist.	15909 Sep 14 15:57	0∘ ⊽	1.39317 AU
	15908 Oct 06 16:58 15908 Oct 09 12:26 15908 Oct 12 23:42	0° ጤ 6° ጤ 41'15		max. Earth dist.	15909 Sep 14 15:57 15909 Sep 14 22:20 15909 Sep 18 15:28	0° ჲ 6° ჲ 21'30	
superior conj	15908 Oct 06 16:58 15908 Oct 09 12:26 15908 Oct 12 23:42 15908 Oct 13 10:26	0°M 6°M41'15 7°M33'53	0°04'04	max. Earth dist.	15909 Sep 14 15:57 15909 Sep 14 22:20 15909 Sep 18 15:28 15909 Sep 26 08:29	0° ♀ 6° ♀ 21'30 20° ♀ 15'10	-0°30'46
superior conj minimum elong	15908 Oct 06 16:58 15908 Oct 09 12:26 15908 Oct 12 23:42 15908 Oct 13 10:26 15908 Oct 13 10:09	0°M. 6°M.41'15 7°M.33'53 7°M.32'31		max. Earth dist. superior conj minimum elong	15909 Sep 14 15:57 15909 Sep 14 22:20 15909 Sep 18 15:28 15909 Sep 26 08:29 15909 Sep 26 10:45	0° £ 6° £ 21'30 20° £ 15'10 20° £ 25'42	-0°30'46
superior conj minimum elong behind sun begin	15908 Oct 06 16:58 15908 Oct 09 12:26 15908 Oct 12 23:42 15908 Oct 13 10:26 15908 Oct 13 10:09 15908 Oct 13 03:51	0°M 6°M41'15 7°M33'53 7°M32'31 7°M01'34	0°04'04	max. Earth dist.	15909 Sep 14 15:57 15909 Sep 14 22:20 15909 Sep 18 15:28 15909 Sep 26 08:29 15909 Sep 26 10:45 15909 Sep 29 20:24	0° \(\oldsymbol{\Omega} \) 6° \(\Omega \) 21'30 20° \(\Omega \) 15'10 20° \(\Omega \) 25'42 26° \(\Omega \) 51'26	-0°30'46
superior conj minimum elong behind sun begin behind sun end	15908 Oct 06 16:58 15908 Oct 09 12:26 15908 Oct 12 23:42 15908 Oct 13 10:26 15908 Oct 13 10:09 15908 Oct 13 03:51 15908 Oct 13 16:27	0°M 6°M41'15 7°M33'53 7°M32'31 7°M01'34 8°M03'32	0°04'04	max. Earth dist. superior conj minimum elong asc. node	15909 Sep 14 15:57 15909 Sep 14 22:20 15909 Sep 18 15:28 15909 Sep 26 08:29 15909 Sep 26 10:45 15909 Sep 29 20:24 15909 Oct 01 11:40	0° Ω 6° Ω 21'30 20° Ω 15'10 20° Ω 25'42 26° Ω 51'26 0° M	-0°30'46
superior conj minimum elong behind sun begin	15908 Oct 06 16:58 15908 Oct 09 12:26 15908 Oct 12 23:42 15908 Oct 13 10:26 15908 Oct 13 10:09 15908 Oct 13 03:51 15908 Oct 13 16:27 15908 Oct 21 15:46	0°M. 6°M.41'15 7°M.33'53 7°M.32'31 7°M.01'34 8°M.03'32 24°M.06'08	0°04'04	max. Earth dist. superior conj minimum elong	15909 Sep 14 15:57 15909 Sep 14 22:20 15909 Sep 18 15:28 15909 Sep 26 08:29 15909 Sep 26 10:45 15909 Sep 29 20:24 15909 Oct 01 11:40 15909 Oct 05 14:04	0° Ω 6° Ω 21'30 20° Ω 15'10 20° Ω 25'42 26° Ω 51'26 0° M 7° M 57'13	-0°30'46
superior conj minimum elong behind sun begin behind sun end evening rise	15908 Oct 06 16:58 15908 Oct 09 12:26 15908 Oct 12 23:42 15908 Oct 13 10:26 15908 Oct 13 10:09 15908 Oct 13 03:51 15908 Oct 13 16:27 15908 Oct 21 15:46 15908 Oct 24 14:28	0°M. 6°M.41'15 7°M.33'53 7°M.32'31 7°M.01'34 8°M.03'32 24°M.06'08 0° ✓	0°04'04 0°04'26	max. Earth dist. superior conj minimum elong asc. node evening rise	15909 Sep 14 15:57 15909 Sep 14 22:20 15909 Sep 18 15:28 15909 Sep 26 08:29 15909 Sep 26 10:45 15909 Sep 29 20:24 15909 Oct 01 11:40 15909 Oct 05 14:04 15909 Oct 18 04:11	0° \(\Omega\) 6° \(\Omega\) 21'30 20° \(\Omega\) 15'10 20° \(\Omega\) 25'42 26° \(\Omega\) 51'26 0° \(\mathbb{M}\) 7° \(\mathbb{M}\) 57'13	-0°30'46 0°30'10
superior conj minimum elong behind sun begin behind sun end evening rise	15908 Oct 06 16:58 15908 Oct 09 12:26 15908 Oct 12 23:42 15908 Oct 13 10:26 15908 Oct 13 10:09 15908 Oct 13 03:51 15908 Oct 13 16:27 15908 Oct 21 15:46 15908 Oct 24 14:28 15908 Nov 07 19:32	0°M. 6°M41'15 7°M33'53 7°M32'31 7°M01'34 8°M03'32 24°M06'08 0° 22° ✓ 22° ✓ 22' ✓ 23'00	0°04'04	max. Earth dist. superior conj minimum elong asc. node evening rise evening max el	15909 Sep 14 15:57 15909 Sep 14 22:20 15909 Sep 18 15:28 15909 Sep 26 08:29 15909 Sep 26 10:45 15909 Sep 29 20:24 15909 Oct 01 11:40 15909 Oct 05 14:04 15909 Oct 18 04:11 15909 Oct 21 17:12	0° \(\Omega\) 6° \(\Omega\) 21'30 20° \(\Omega\) 15'10 20° \(\Omega\) 25'42 26° \(\Omega\) 51'26 0° \(\mathrm{M}\) 7° \(\mathrm{M}\) 57'13 0° \(\mathrm{A}'\) 4° \(\mathrm{A}'\) 13'10	-0°30'46 0°30'10
superior conj minimum elong behind sun begin behind sun end evening rise	15908 Oct 06 16:58 15908 Oct 09 12:26 15908 Oct 12 23:42 15908 Oct 13 10:26 15908 Oct 13 10:09 15908 Oct 13 03:51 15908 Oct 13 16:27 15908 Oct 21 15:46 15908 Oct 24 14:28	0°M. 6°M.41'15 7°M.33'53 7°M.32'31 7°M.01'34 8°M.03'32 24°M.06'08 0° ✓	0°04'04 0°04'26	max. Earth dist. superior conj minimum elong asc. node evening rise	15909 Sep 14 15:57 15909 Sep 14 22:20 15909 Sep 18 15:28 15909 Sep 26 08:29 15909 Sep 26 10:45 15909 Sep 29 20:24 15909 Oct 01 11:40 15909 Oct 05 14:04 15909 Oct 18 04:11	0° \(\Omega\) 6° \(\Omega\) 21'30 20° \(\Omega\) 15'10 20° \(\Omega\) 25'42 26° \(\Omega\) 51'26 0° \(\mathbb{M}\) 7° \(\mathbb{M}\) 57'13	-0°30'46 0°30'10

11-	15000 N 01 07.46	00.700100			15010 0-4 14 00-40	200 m 10121	
desc. node	15909 Nov 01 07:46	8°×709'08	2920121	evening set	15910 Oct 14 09:48	20°M10'31	
inferior conj	15909 Nov 09 02:27	3° х 50'42 4° х 01'52		desc. node	15910 Oct 19 05:02	17°M32'54	0940147
minimum elong	15909 Nov 08 20:21			inferior conj	15910 Oct 21 19:13	15°M25'43	
min. Earth dist.	15909 Nov 12 04:05	1° ∡ 736′20	0.56967 AU	minimum elong	15910 Oct 21 17:25	15°M29'36 12°M39'21	0°48'31
	15909 Nov 14 14:48	30°RM		min. Earth dist.	15910 Oct 25 01:19		0.59078 AU
morning rise	15909 Nov 16 14:05	28°M56'22		morning rise	15910 Oct 28 21:38	9°M55'37	
direct	15909 Nov 22 14:15	27°M28'43		direct	15910 Nov 04 08:58	8°M01'48	27025142
	15909 Nov 30 15:34	0° ∡ 7	2.6022120	morning max el	15910 Nov 18 15:53	15°M43'26	27°35'43
morning max el	15909 Dec 06 18:56	4° ₹ ′50′50	26°33'28		15910 Nov 30 07:42	0° ∡ 7	
_	15909 Dec 25 01:32	0°₹		asc. node	15910 Dec 13 17:45	22° ∡ ³33'35	
asc. node	15909 Dec 26 20:39	3° ਰ 13'21			15910 Dec 17 11:57	0°₹	
morning set	15910 Jan 04 21:19	21° ට 16'52		morning set	15910 Dec 20 04:31	5° ට 36'28	
	15910 Jan 08 20:41	0° ≈		max. Earth dist.	15910 Dec 26 16:17	19° る 51'04	1.31009 AU
superior conj	15910 Jan 11 15:31	6°≈13'13	1°38'05	superior conj	15910 Dec 27 02:59	20°る51'00	1°35'00
minimum elong	15910 Jan 11 15:30	6°≈13'06	1°38'47	minimum elong	15910 Dec 27 01:57	20°පි45'10	1°35'43
max. Earth dist.	15910 Jan 12 08:24	0 ≈1300 7°≈47'26	1.31236 AU	minimum clong	15910 Dec 31 05:23	20°≈	1 33 43
			1.31230 AU			0 ∞ 5°≈44'24	
evening rise	15910 Jan 18 13:58	21°≈24'00		evening rise	15911 Jan 02 20:30		
	15910 Jan 22 18:46	0° ∺		desc. node	15911 Jan 15 03:58	29°≈33'28	
desc. node	15910 Jan 28 07:13	10°) €23'04			15911 Jan 15 10:15	0° ∀	
	15910 Feb 09 20:31	0°Υ		evening max el	15911 Feb 01 00:25	22°) €04'55	26°29'31
evening max el	15910 Feb 19 00:09	10° Ƴ 33'33	27°20'25	retrograde	15911 Feb 15 00:09	29° 升 14′05	
retrograde	15910 Mar 05 00:30	17° Ƴ 54'01		evening set	15911 Feb 21 08:54	27°) €35'37	
evening set	15910 Mar 11 18:13	15° Ƴ 51'59		min. Earth dist.	15911 Feb 25 13:51	24° ∺ 58′08	0.58395 AU
min. Earth dist.	15910 Mar 15 14:23	13° Ƴ 05'15	0.60619 AU	inferior conj	15911 Feb 28 17:29	22°) 37′02	-3°24'45
inferior conj	15910 Mar 18 18:54	10° Ƴ 20′30	-1°55'01	minimum elong	15911 Mar 01 01:15	22° 升 22'31	3°21'49
minimum elong	15910 Mar 18 23:08	10° Ƴ 11'19	1°53'24	morning rise	15911 Mar 08 20:58	18° ₩ 06'54	
asc. node	15910 Mar 24 18:02	6° Y 04'06		direct	15911 Mar 10 20:11	17° ¥ 53'35	
morning rise	15910 Mar 26 07:27	5° Y 28'53		asc. node	15911 Mar 11 15:25	17° ¥ 55'52	
direct	15910 Mar 28 09:31	5° Υ 11'03		morning max el	15911 Mar 18 22:57	21°) 54′00	18°25'57
morning max el	15910 Apr 04 12:43		17°56'12	morning mun vi	15911 Mar 25 04:59	0°Υ	10 20 07
morning max or	15910 Apr 18 09:20	0°8	17 30 12	morning set	15911 Apr 03 18:38	17° Ƴ 10'17	
morning set	15910 Apr 20 02:53	3° 8 09'08		morning set	15911 Apr 10 12:37	0°8	
=	*				13711 Apr 10 12.37	0 0	
daga nada	15010 Apr 26 00:45	1/0×20010					
desc. node	15910 Apr 26 08:45	14° 8 28'18		superior coni	15011 Apr 12 00:04	4°₩25'20	0001152
	-		0024124	superior conj	15911 Apr 13 00:04	4° 8 35'30	0°01'53
superior conj	15910 Apr 30 15:32	22° 8 01'49		minimum elong	15911 Apr 13 00:10	4° 8 36'00	0°01'53 0°01'28
	15910 Apr 30 15:32 15910 Apr 30 12:30	22° 8 01'49 21° 8 48'37		minimum elong behind sun begin	15911 Apr 13 00:10 15911 Apr 12 16:59	4° 8 36'00 4° 8 02'57	
superior conj minimum elong	15910 Apr 30 15:32 15910 Apr 30 12:30 15910 May 05 07:25	22°801'49 21°848'37 0°II	0°34'39	minimum elong behind sun begin behind sun end	15911 Apr 13 00:10 15911 Apr 12 16:59 15911 Apr 13 07:22	4°\dagger 36'00 4°\dagger 36'57 5°\dagger 36'57	
superior conj minimum elong max. Earth dist.	15910 Apr 30 15:32 15910 Apr 30 12:30 15910 May 05 07:25 15910 May 08 02:56	22° 8 01'49 21° 8 48'37 0°П 4°П40'47		minimum elong behind sun begin behind sun end desc. node	15911 Apr 13 00:10 15911 Apr 12 16:59 15911 Apr 13 07:22 15911 Apr 13 05:28	4°836'00 4°802'57 5°808'57 5°800'18	0°01'28
superior conj minimum elong	15910 Apr 30 15:32 15910 Apr 30 12:30 15910 May 05 07:25 15910 May 08 02:56 15910 May 14 01:41	22°႘၀1'49 21°႘48'37 0°Ⅲ 4°Ⅲ40'47 14°Ⅲ16'24	0°34'39	minimum elong behind sun begin behind sun end desc. node max. Earth dist.	15911 Apr 13 00:10 15911 Apr 12 16:59 15911 Apr 13 07:22 15911 Apr 13 05:28 15911 Apr 20 12:17	4°836'00 4°802'57 5°808'57 5°800'18 17°855'57	
superior conj minimum elong max. Earth dist. evening rise	15910 Apr 30 15:32 15910 Apr 30 12:30 15910 May 05 07:25 15910 May 08 02:56 15910 May 14 01:41 15910 May 24 08:11	22° 8 01'49 21° 8 48'37 0°П 4°П40'47 14°П16'24 0°©	0°34'39 1.42775 AU	minimum elong behind sun begin behind sun end desc. node	15911 Apr 13 00:10 15911 Apr 12 16:59 15911 Apr 13 07:22 15911 Apr 13 05:28 15911 Apr 20 12:17 15911 Apr 24 20:06	4°\d36'00 4°\d02'57 5°\d08'57 5°\d00'18 17°\d55'57 25°\d52'52	0°01'28
superior conj minimum elong max. Earth dist.	15910 Apr 30 15:32 15910 Apr 30 12:30 15910 May 05 07:25 15910 May 08 02:56 15910 May 14 01:41 15910 May 24 08:11 15910 Jun 15 14:29	22°801'49 21°848'37 0°11 4°1140'47 14°116'24 0°9 29°921'10	0°34'39	minimum elong behind sun begin behind sun end desc. node max. Earth dist.	15911 Apr 13 00:10 15911 Apr 12 16:59 15911 Apr 13 07:22 15911 Apr 13 05:28 15911 Apr 20 12:17	4°836'00 4°802'57 5°808'57 5°800'18 17°855'57 25°812'52 0°Π	0°01'28
superior conj minimum elong max. Earth dist. evening rise	15910 Apr 30 15:32 15910 Apr 30 12:30 15910 May 05 07:25 15910 May 08 02:56 15910 May 14 01:41 15910 May 24 08:11	22° 8 01'49 21° 8 48'37 0°П 4°П40'47 14°П16'24 0°©	0°34'39 1.42775 AU	minimum elong behind sun begin behind sun end desc. node max. Earth dist.	15911 Apr 13 00:10 15911 Apr 12 16:59 15911 Apr 13 07:22 15911 Apr 13 05:28 15911 Apr 20 12:17 15911 Apr 24 20:06	4°\d36'00 4°\d02'57 5°\d08'57 5°\d00'18 17°\d55'57 25°\d52'52	0°01'28
superior conj minimum elong max. Earth dist. evening rise	15910 Apr 30 15:32 15910 Apr 30 12:30 15910 May 05 07:25 15910 May 08 02:56 15910 May 14 01:41 15910 May 24 08:11 15910 Jun 15 14:29	22°801'49 21°848'37 0°11 4°1140'47 14°116'24 0°9 29°921'10	0°34'39 1.42775 AU	minimum elong behind sun begin behind sun end desc. node max. Earth dist.	15911 Apr 13 00:10 15911 Apr 12 16:59 15911 Apr 13 07:22 15911 Apr 13 05:28 15911 Apr 20 12:17 15911 Apr 24 20:06 15911 Apr 27 18:32	4°836'00 4°802'57 5°808'57 5°800'18 17°855'57 25°812'52 0°Π	0°01'28
superior conj minimum elong max. Earth dist. evening rise evening max el	15910 Apr 30 15:32 15910 Apr 30 12:30 15910 May 05 07:25 15910 May 08 02:56 15910 May 14 01:41 15910 May 24 08:11 15910 Jun 15 14:29 15910 Jun 16 06:21	22°801'49 21°848'37 0°Π 4°Π40'47 14°Π16'24 0°\$ 29°\$21'10 0°Ω	0°34'39 1.42775 AU	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise	15911 Apr 13 00:10 15911 Apr 12 16:59 15911 Apr 13 07:22 15911 Apr 13 05:28 15911 Apr 20 12:17 15911 Apr 24 20:06 15911 Apr 27 18:32 15911 May 18 02:22	4°836'00 4°802'57 5°808'57 5°800'18 17°855'57 25°812'52 0°Π 0°9	0°01'28 1.40662 AU
superior conj minimum elong max. Earth dist. evening rise evening max el asc. node	15910 Apr 30 15:32 15910 Apr 30 12:30 15910 May 05 07:25 15910 May 08 02:56 15910 May 14 01:41 15910 May 24 08:11 15910 Jun 15 14:29 15910 Jun 16 06:21 15910 Jun 20 16:05	22°႘01'49 21°႘48'37 0°Ⅲ 4°Ⅲ40'47 14°Ⅲ16'24 0°ಽ 29°ಽ21'10 0°Ω 3°Ω29'24	0°34'39 1.42775 AU	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise	15911 Apr 13 00:10 15911 Apr 12 16:59 15911 Apr 13 07:22 15911 Apr 13 05:28 15911 Apr 20 12:17 15911 Apr 24 20:06 15911 Apr 27 18:32 15911 May 18 02:22 15911 May 29 05:26	4°836'00 4°802'57 5°808'57 5°800'18 17°855'57 25°812'52 0°II 0°9 13°9515'11	0°01'28 1.40662 AU
superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde	15910 Apr 30 15:32 15910 Apr 30 12:30 15910 May 05 07:25 15910 May 08 02:56 15910 May 14 01:41 15910 May 24 08:11 15910 Jun 15 14:29 15910 Jun 16 06:21 15910 Jun 20 16:05 15910 Jun 25 02:12	22°႘01'49 21°႘48'37 0°Ⅲ 4°Ⅲ40'47 14°Ⅲ16'24 0°છ 29°©21'10 0°Ω 3°Ω29'24 4°Ω53'53	0°34'39 1.42775 AU	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise	15911 Apr 13 00:10 15911 Apr 12 16:59 15911 Apr 13 07:22 15911 Apr 13 05:28 15911 Apr 20 12:17 15911 Apr 24 20:06 15911 Apr 27 18:32 15911 May 18 02:22 15911 May 29 05:26 15911 Jun 07 13:04	4°836'00 4°802'57 5°808'57 5°800'18 17°855'57 25°812'52 0°Π 0°9 13°915'11 19°923'33	0°01'28 1.40662 AU
superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde	15910 Apr 30 15:32 15910 Apr 30 12:30 15910 May 05 07:25 15910 May 08 02:56 15910 May 14 01:41 15910 May 24 08:11 15910 Jun 15 14:29 15910 Jun 16 06:21 15910 Jun 20 16:05 15910 Jun 25 02:12 15910 Jun 29 19:56	22°801'49 21°848'37 0°Π 4°Π40'47 14°Π16'24 0°Φ 29°\$21'10 0°Ω 3°Ω29'24 4°Ω53'53 2°Ω55'07	0°34'39 1.42775 AU	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde	15911 Apr 13 00:10 15911 Apr 12 16:59 15911 Apr 13 07:22 15911 Apr 13 05:28 15911 Apr 20 12:17 15911 Apr 24 20:06 15911 Apr 27 18:32 15911 May 18 02:22 15911 May 29 05:26 15911 Jun 07 13:04 15911 Jun 08 21:44	4°836'00 4°802'57 5°808'57 5°800'18 17°855'57 25°812'52 0°11 0°9 13°915'11 19°923'33 19°931'33	0°01'28 1.40662 AU 23°28'01
superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj	15910 Apr 30 15:32 15910 Apr 30 12:30 15910 May 05 07:25 15910 May 08 02:56 15910 May 14 01:41 15910 May 24 08:11 15910 Jun 15 14:29 15910 Jun 16 06:21 15910 Jun 20 16:05 15910 Jun 25 02:12 15910 Jun 29 19:56 15910 Jul 02 13:39	22°801'49 21°848'37 0°Π 4°Π40'47 14°Π16'24 0°Θ 29°Θ21'10 0°Ω 3°Ω29'24 4°Ω53'53 2°Ω55'07 30°RΘ	0°34'39 1.42775 AU 22°06'57	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj	15911 Apr 13 00:10 15911 Apr 12 16:59 15911 Apr 13 07:22 15911 Apr 13 05:28 15911 Apr 20 12:17 15911 Apr 24 20:06 15911 Apr 27 18:32 15911 May 18 02:22 15911 May 29 05:26 15911 Jun 07 13:04 15911 Jun 08 21:44 15911 Jun 14 03:04 15911 Jun 19 11:44	4°836'00 4°802'57 5°808'57 5°800'18 17°855'57 25°812'52 0°II 0°99 13°915'11 19°923'33 19°931'33 17°918'12	0°01'28 1.40662 AU 23°28'01
superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong	15910 Apr 30 15:32 15910 Apr 30 12:30 15910 May 05 07:25 15910 May 08 02:56 15910 May 14 01:41 15910 May 24 08:11 15910 Jun 15 14:29 15910 Jun 16 06:21 15910 Jun 20 16:05 15910 Jun 25 02:12 15910 Jun 29 19:56 15910 Jul 02 13:39 15910 Jul 05 01:58 15910 Jul 05 01:18	22°801'49 21°848'37 0°11 4°1140'47 14°116'24 0°5 29°521'10 0°0 3°029'24 4°053'53 2°055'07 30°85 26°536'42 26°539'04	0°34'39 1.42775 AU 22°06'57 3°05'53 3°05'05	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong	15911 Apr 13 00:10 15911 Apr 12 16:59 15911 Apr 13 07:22 15911 Apr 13 05:28 15911 Apr 20 12:17 15911 Apr 24 20:06 15911 Apr 27 18:32 15911 May 18 02:22 15911 May 29 05:26 15911 Jun 07 13:04 15911 Jun 08 21:44 15911 Jun 14 03:04 15911 Jun 19 11:44 15911 Jun 19 10:14	4°836'00 4°802'57 5°808'57 5°800'18 17°855'57 25°812'52 0°II 0°9 13°915'11 19°923'33 19°931'33 17°918'12 10°952'07 10°957'15	0°01'28 1.40662 AU 23°28'01 2°52'48 2°51'47
superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	15910 Apr 30 15:32 15910 Apr 30 12:30 15910 May 05 07:25 15910 May 08 02:56 15910 May 14 01:41 15910 May 24 08:11 15910 Jun 15 14:29 15910 Jun 16 06:21 15910 Jun 20 16:05 15910 Jun 25 02:12 15910 Jun 29 19:56 15910 Jul 02 13:39 15910 Jul 05 01:58 15910 Jul 05 01:18 15910 Jul 05 01:18	22°801'49 21°848'37 0°11 4°1140'47 14°1116'24 0°5 29°521'10 0°0 3°029'24 4°053'53 2°055'07 30°85 26°536'42 26°539'04 26°538'43	0°34'39 1.42775 AU 22°06'57 3°05'53	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	15911 Apr 13 00:10 15911 Apr 12 16:59 15911 Apr 13 07:22 15911 Apr 13 05:28 15911 Apr 20 12:17 15911 Apr 24 20:06 15911 Apr 27 18:32 15911 May 18 02:22 15911 May 29 05:26 15911 Jun 07 13:04 15911 Jun 08 21:44 15911 Jun 14 03:04 15911 Jun 19 11:44 15911 Jun 19 10:14 15911 Jun 18 22:07	4°836'00 4°802'57 5°808'57 5°800'18 17°855'57 25°812'52 0°11 0°95 13°931'33 17°938'12 10°952'07 10°957'15 11°938'59	0°01'28 1.40662 AU 23°28'01 2°52'48
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	15910 Apr 30 15:32 15910 Apr 30 12:30 15910 May 05 07:25 15910 May 08 02:56 15910 May 14 01:41 15910 May 24 08:11 15910 Jun 15 14:29 15910 Jun 16 06:21 15910 Jun 20 16:05 15910 Jun 25 02:12 15910 Jun 29 19:56 15910 Jul 02 13:39 15910 Jul 05 01:58 15910 Jul 05 01:18 15910 Jul 05 01:18 15910 Jul 05 01:24 15910 Jul 10 06:29	22°801'49 21°848'37 0°11 4°1140'47 14°1116'24 0°5 29°521'10 0°0 3°029'24 4°053'53 2°055'07 30°85 26°536'42 26°539'04 26°538'43 20°522'03	0°34'39 1.42775 AU 22°06'57 3°05'53 3°05'05	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	15911 Apr 13 00:10 15911 Apr 12 16:59 15911 Apr 13 07:22 15911 Apr 13 05:28 15911 Apr 20 12:17 15911 Apr 24 20:06 15911 Apr 27 18:32 15911 May 18 02:22 15911 May 29 05:26 15911 Jun 07 13:04 15911 Jun 08 21:44 15911 Jun 14 03:04 15911 Jun 19 11:44 15911 Jun 19 10:14 15911 Jun 18 22:07 15911 Jun 18 22:07	4°836'00 4°802'57 5°808'57 5°800'18 17°855'57 25°812'52 0°11 0°95 13°931'33 17°938'53 17°952'07 10°957'15 11°938'59 4°945'36	0°01'28 1.40662 AU 23°28'01 2°52'48 2°51'47
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	15910 Apr 30 15:32 15910 Apr 30 12:30 15910 May 05 07:25 15910 May 08 02:56 15910 May 14 01:41 15910 May 24 08:11 15910 Jun 15 14:29 15910 Jun 16 06:21 15910 Jun 20 16:05 15910 Jun 25 02:12 15910 Jun 29 19:56 15910 Jul 02 13:39 15910 Jul 05 01:58 15910 Jul 05 01:18 15910 Jul 05 01:24 15910 Jul 10 06:29 15910 Jul 10 06:29 15910 Jul 15 00:30	22°801'49 21°848'37 0°11 4°1140'47 14°116'24 0°5 29°521'10 0°10 3°1029'24 4°1053'53 2°1055'07 30°15 26°536'42 26°539'04 26°538'43 20°522'03 18°521'49	0°34'39 1.42775 AU 22°06'57 3°05'53 3°05'05	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	15911 Apr 13 00:10 15911 Apr 12 16:59 15911 Apr 13 07:22 15911 Apr 13 05:28 15911 Apr 20 12:17 15911 Apr 24 20:06 15911 Apr 27 18:32 15911 May 18 02:22 15911 May 29 05:26 15911 Jun 07 13:04 15911 Jun 08 21:44 15911 Jun 14 03:04 15911 Jun 19 11:44 15911 Jun 19 10:14 15911 Jun 18 22:07 15911 Jun 24 17:24 15911 Jun 28 23:13	4°836'00 4°802'57 5°808'57 5°800'18 17°855'57 25°812'52 0°11 0°9 13°931'33 17°938'12 10°952'07 10°957'15 11°938'59 4°945'36 3°904'49	0°01'28 1.40662 AU 23°28'01 2°52'48 2°51'47 0.69012 AU
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	15910 Apr 30 15:32 15910 Apr 30 12:30 15910 May 05 07:25 15910 May 08 02:56 15910 May 14 01:41 15910 May 24 08:11 15910 Jun 15 14:29 15910 Jun 16 06:21 15910 Jun 20 16:05 15910 Jun 25 02:12 15910 Jun 29 19:56 15910 Jul 02 13:39 15910 Jul 05 01:58 15910 Jul 05 01:58 15910 Jul 05 01:18 15910 Jul 05 01:24 15910 Jul 10 06:29 15910 Jul 15 00:30 15910 Jul 15 00:30 15910 Jul 23 08:06	22°801'49 21°848'37 0° II 4° II 40'47 14° II 16'24 0° S 29° S21'10 0° N 3° N 29'24 4° N 53'53 2° N 55'07 30° R S 26° S 36'42 26° S 36'42 26° S 38'43 20° S 22'03 18° S 21'49 22° S 49'23	0°34'39 1.42775 AU 22°06'57 3°05'53 3°05'05 0.69115 AU	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	15911 Apr 13 00:10 15911 Apr 12 16:59 15911 Apr 13 07:22 15911 Apr 13 05:28 15911 Apr 20 12:17 15911 Apr 24 20:06 15911 Apr 27 18:32 15911 May 18 02:22 15911 May 29 05:26 15911 Jun 07 13:04 15911 Jun 08 21:44 15911 Jun 14 03:04 15911 Jun 19 11:44 15911 Jun 19 10:14 15911 Jun 18 22:07 15911 Jun 24 17:24 15911 Jun 28 23:13 15911 Jul 07 04:18	4°836'00 4°802'57 5°808'57 5°800'18 17°855'57 25°812'52 0°11 0°99 13°931'33 17°938'59 10°957'15 11°938'59 4°945'36 3°904'49 7°945'45	0°01'28 1.40662 AU 23°28'01 2°52'48 2°51'47 0.69012 AU
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	15910 Apr 30 15:32 15910 Apr 30 12:30 15910 May 05 07:25 15910 May 08 02:56 15910 May 14 01:41 15910 May 24 08:11 15910 Jun 15 14:29 15910 Jun 16 06:21 15910 Jun 20 16:05 15910 Jun 25 02:12 15910 Jun 29 19:56 15910 Jul 02 13:39 15910 Jul 05 01:58 15910 Jul 05 01:58 15910 Jul 05 01:18 15910 Jul 05 01:24 15910 Jul 10 06:29 15910 Jul 15 00:30 15910 Jul 23 08:06 15910 Jul 24 09:50	22°801'49 21°848'37 0° II 4° II 40'47 14° II 16'24 0° II 29° II 21'10 0° II 3° II 29'24 4° II 29'24 4° II 29'35'53 2° II 29'24 26° II 38'43 20° II 29'24	0°34'39 1.42775 AU 22°06'57 3°05'53 3°05'05 0.69115 AU	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	15911 Apr 13 00:10 15911 Apr 12 16:59 15911 Apr 13 07:22 15911 Apr 13 05:28 15911 Apr 20 12:17 15911 Apr 24 20:06 15911 Apr 27 18:32 15911 May 18 02:22 15911 May 29 05:26 15911 Jun 07 13:04 15911 Jun 08 21:44 15911 Jun 14 03:04 15911 Jun 19 10:14 15911 Jun 19 10:14 15911 Jun 18 22:07 15911 Jun 24 17:24 15911 Jun 28 23:13 15911 Jul 07 04:18 15911 Jul 10 05:19	4°836'00 4°802'57 5°808'57 5°800'18 17°855'57 25°812'52 0°11 0°99 13°915'11 19°923'33 19°931'33 17°918'12 10°952'07 10°957'15 11°938'59 4°945'36 3°904'49 7°945'45 11°903'52	0°01'28 1.40662 AU 23°28'01 2°52'48 2°51'47 0.69012 AU
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	15910 Apr 30 15:32 15910 Apr 30 12:30 15910 May 05 07:25 15910 May 08 02:56 15910 May 14 01:41 15910 May 24 08:11 15910 Jun 15 14:29 15910 Jun 16 06:21 15910 Jun 20 16:05 15910 Jun 25 02:12 15910 Jun 29 19:56 15910 Jul 05 01:58 15910 Jul 05 01:58 15910 Jul 05 01:18 15910 Jul 05 01:24 15910 Jul 10 06:29 15910 Jul 10 06:29 15910 Jul 23 08:06 15910 Jul 24 09:50 15910 Jul 24 09:50 15910 Jul 29 20:03	22°801'49 21°848'37 0°II 4°II40'47 14°II16'24 0°S 29°S21'10 0°N 3°N29'24 4°N53'53 2°N55'07 30°RS 26°S36'42 26°S38'43 20°S22'03 18°S21'49 22°S49'23 23°S51'42 0°N	0°34'39 1.42775 AU 22°06'57 3°05'53 3°05'05 0.69115 AU	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	15911 Apr 13 00:10 15911 Apr 12 16:59 15911 Apr 13 07:22 15911 Apr 13 05:28 15911 Apr 20 12:17 15911 Apr 24 20:06 15911 Apr 27 18:32 15911 May 18 02:22 15911 May 29 05:26 15911 Jun 07 13:04 15911 Jun 08 21:44 15911 Jun 14 03:04 15911 Jun 19 11:44 15911 Jun 19 10:14 15911 Jun 18 22:07 15911 Jun 28 23:13 15911 Jun 28 23:13 15911 Jul 07 04:18 15911 Jul 10 05:19 15911 Jul 24 04:03	4°836'00 4°802'57 5°808'57 5°800'18 17°855'57 25°812'52 0°11 0°99 13°931'33 17°938'59 4°945'36 3°904'49 7°945'45 11°938'52 0°Ω	0°01'28 1.40662 AU 23°28'01 2°52'48 2°51'47 0.69012 AU
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	15910 Apr 30 15:32 15910 Apr 30 12:30 15910 May 05 07:25 15910 May 08 02:56 15910 May 14 01:41 15910 May 24 08:11 15910 Jun 15 14:29 15910 Jun 20 16:05 15910 Jun 25 02:12 15910 Jun 29 19:56 15910 Jun 02 13:39 15910 Jul 05 01:58 15910 Jul 05 01:58 15910 Jul 05 01:18 15910 Jul 05 01:24 15910 Jul 10 06:29 15910 Jul 10 06:29 15910 Jul 23 08:06 15910 Jul 24 09:50 15910 Jul 29 20:03 15910 Aug 19 23:15	22°801'49 21°848'37 0° II 4° II 40'47 14° II 16'24 0° 9 29° 921'10 0° N 3° N29'24 4° N53'53 2° N55'07 30° R9 26° 936'42 26° 939'04 26° 938'43 20° 922'03 18° 921'49 22° 949'23 23° 951'42 0° N 0° III	0°34'39 1.42775 AU 22°06'57 3°05'53 3°05'05 0.69115 AU	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	15911 Apr 13 00:10 15911 Apr 12 16:59 15911 Apr 13 07:22 15911 Apr 13 05:28 15911 Apr 20 12:17 15911 Apr 24 20:06 15911 Apr 27 18:32 15911 May 18 02:22 15911 May 29 05:26 15911 Jun 07 13:04 15911 Jun 08 21:44 15911 Jun 14 03:04 15911 Jun 19 11:44 15911 Jun 19 10:14 15911 Jun 18 22:07 15911 Jun 24 17:24 15911 Jun 28 23:13 15911 Jul 07 04:18 15911 Jul 10 05:19 15911 Jul 24 04:03 15911 Jul 24 04:03 15911 Aug 05 17:59	4°836'00 4°802'57 5°808'57 5°808'57 5°801'18 17°855'57 25°812'52 0°11 0°9 13°915'11 19°923'33 19°931'33 17°918'12 10°952'07 10°957'15 11°938'59 4°945'36 3°904'49 7°945'45 11°903'52 0°0 18°059'04	0°01'28 1.40662 AU 23°28'01 2°52'48 2°51'47 0.69012 AU
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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	15910 Apr 30 15:32 15910 Apr 30 12:30 15910 May 05 07:25 15910 May 08 02:56 15910 May 14 01:41 15910 May 24 08:11 15910 Jun 15 14:29 15910 Jun 20 16:05 15910 Jun 25 02:12 15910 Jun 25 02:12 15910 Jun 25 02:12 15910 Jun 05 01:58 15910 Jul 05 01:58 15910 Jul 05 01:18 15910 Jul 05 01:18 15910 Jul 10 06:29 15910 Jul 10 06:29 15910 Jul 23 08:06 15910 Jul 24 09:50 15910 Jul 24 09:50 15910 Jul 29 20:03 15910 Aug 19 23:15 15910 Aug 26 04:00 15910 Aug 31 18:01	22°801'49 21°848'37 0°	0°34'39 1.42775 AU 22°06'57 3°05'53 3°05'05 0.69115 AU	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	15911 Apr 13 00:10 15911 Apr 12 16:59 15911 Apr 13 07:22 15911 Apr 13 05:28 15911 Apr 20 12:17 15911 Apr 24 20:06 15911 Apr 27 18:32 15911 May 18 02:22 15911 May 29 05:26 15911 Jun 07 13:04 15911 Jun 08 21:44 15911 Jun 14 03:04 15911 Jun 19 11:44 15911 Jun 19 10:14 15911 Jun 18 22:07 15911 Jun 24 17:24 15911 Jun 28 23:13 15911 Jul 07 04:18 15911 Jul 10 05:19 15911 Jul 24 04:03 15911 Jul 24 04:03 15911 Aug 05 17:59	4°836'00 4°802'57 5°808'57 5°808'57 5°801'18 17°855'57 25°812'52 0°11 0°9 13°915'11 19°923'33 19°931'33 17°918'12 10°952'07 10°957'15 11°938'59 4°945'36 3°904'49 7°945'45 11°903'52 0°0 18°059'04	0°01'28 1.40662 AU 23°28'01 2°52'48 2°51'47 0.69012 AU
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	15910 Apr 30 15:32 15910 Apr 30 12:30 15910 May 05 07:25 15910 May 08 02:56 15910 May 14 01:41 15910 May 24 08:11 15910 Jun 15 14:29 15910 Jun 20 16:05 15910 Jun 25 02:12 15910 Jun 25 02:12 15910 Jun 29 19:56 15910 Jul 05 01:58 15910 Jul 05 01:58 15910 Jul 05 01:18 15910 Jul 05 01:24 15910 Jul 10 06:29 15910 Jul 10 06:29 15910 Jul 23 08:06 15910 Jul 24 09:50 15910 Jul 29 20:03 15910 Aug 19 23:15 15910 Aug 26 04:00	22°\delta01'49 21°\delta48'37 0°\Pi 4°\Pi40'47 14°\Pi40'47 14°\Pi16'24 0°\delta 29°\delta21'10 0°\Omega 3°\Omega29'24 4°\Omega55'07 30°\R\delta 26°\delta36'42 26°\delta38'43 20°\delta22'03 18°\delta21'49 22°\delta49'23 23°\delta51'42 0°\Omega 0°\Pi 9°\Pi43'45	0°34'39 1.42775 AU 22°06'57 3°05'53 3°05'05 0.69115 AU 22°02'51	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set	15911 Apr 13 00:10 15911 Apr 12 16:59 15911 Apr 13 07:22 15911 Apr 13 05:28 15911 Apr 20 12:17 15911 Apr 24 20:06 15911 Apr 27 18:32 15911 May 18 02:22 15911 May 29 05:26 15911 Jun 07 13:04 15911 Jun 08 21:44 15911 Jun 19 11:44 15911 Jun 19 10:14 15911 Jun 19 10:14 15911 Jun 18 22:07 15911 Jun 28 23:13 15911 Jun 28 23:13 15911 Jul 07 04:18 15911 Jul 05:19 15911 Jul 24 04:03 15911 Aug 05 17:59 15911 Aug 12 18:05 15911 Aug 14 02:43	4°836'00 4°802'57 5°808'57 5°800'18 17°855'57 25°812'52 0°11 0°9 13°931'33 17°938'51 10°952'07 10°957'15 11°938'59 4°945'36 3°904'49 7°945'45 11°903'52 0°10 18°10'51	0°01'28 1.40662 AU 23°28'01 2°52'48 2°51'47 0.69012 AU 20°42'29 1.43659 AU
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.	15910 Apr 30 15:32 15910 Apr 30 12:30 15910 May 05 07:25 15910 May 08 02:56 15910 May 14 01:41 15910 May 24 08:11 15910 Jun 15 14:29 15910 Jun 16 06:21 15910 Jun 25 02:12 15910 Jun 29 19:56 15910 Jul 02 13:39 15910 Jul 05 01:58 15910 Jul 05 01:18 15910 Jul 05 01:18 15910 Jul 05 01:24 15910 Jul 10 06:29 15910 Jul 15 00:30 15910 Jul 23 08:06 15910 Jul 24 09:50 15910 Jul 29 20:03 15910 Aug 19 23:15 15910 Aug 31 18:01 15910 Sep 07 07:11	22°801'49 21°848'37 0°	0°34'39 1.42775 AU 22°06'57 3°05'53 3°05'05 0.69115 AU 22°02'51 1.41656 AU	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set	15911 Apr 13 00:10 15911 Apr 12 16:59 15911 Apr 13 07:22 15911 Apr 13 05:28 15911 Apr 20 12:17 15911 Apr 24 20:06 15911 Apr 27 18:32 15911 May 18 02:22 15911 May 29 05:26 15911 Jun 07 13:04 15911 Jun 08 21:44 15911 Jun 14 03:04 15911 Jun 19 11:44 15911 Jun 19 10:14 15911 Jun 18 22:07 15911 Jun 28 23:13 15911 Jun 28 23:13 15911 Jun 28 23:13 15911 Jul 07 04:18 15911 Jul 05:19 15911 Jul 05:19 15911 Aug 05 17:59 15911 Aug 12 18:05 15911 Aug 14 02:43	4°836'00 4°802'57 5°808'57 5°800'18 17°855'57 25°812'52 0°11 0°95 13°931'33 17°938'12 10°952'07 10°957'15 11°938'59 4°945'36 3°904'49 7°945'45 11°903'52 0°0 18°05'904 0°10 2°1010'51	0°01'28 1.40662 AU 23°28'01 2°52'48 2°51'47 0.69012 AU 20°42'29 1.43659 AU -1°41'33
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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.	15910 Apr 30 15:32 15910 Apr 30 12:30 15910 May 05 07:25 15910 May 08 02:56 15910 May 14 01:41 15910 May 24 08:11 15910 Jun 15 14:29 15910 Jun 20 16:05 15910 Jun 25 02:12 15910 Jun 29 19:56 15910 Jul 02 13:39 15910 Jul 05 01:58 15910 Jul 05 01:18 15910 Jul 05 01:18 15910 Jul 05 01:24 15910 Jul 10 06:29 15910 Jul 10 06:29 15910 Jul 23 08:06 15910 Jul 24 09:50 15910 Jul 29 20:03 15910 Aug 19 23:15 15910 Aug 26 04:00 15910 Aug 31 18:01 15910 Sep 08 12:35	22°801'49 21°848'37 0° II 4° II 40'47 14° II 16'24 0° G 29° G21'10 0° \(\Omega\) 3° \(\Omega\) 29' \(\Omega\) 4° \(\Omega\) 55'07 30° \(\Omega\) 26° \(\Omega\) 36'42 26° \(\Omega\) 36'42 26° \(\Omega\) 38'43 20° \(\Omega\) 22'03 18° \(\Omega\) 21'49 22° \(\Omega\) 49'23 23° \(\Omega\) 55'142 0° \(\Omega\) 0° \(\Omega\) 43'45 18° \(\Omega\) 55'55	0°34'39 1.42775 AU 22°06'57 3°05'53 3°05'05 0.69115 AU 22°02'51 1.41656 AU -1°07'28	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set	15911 Apr 13 00:10 15911 Apr 12 16:59 15911 Apr 13 07:22 15911 Apr 13 05:28 15911 Apr 20 12:17 15911 Apr 24 20:06 15911 Apr 27 18:32 15911 May 18 02:22 15911 May 29 05:26 15911 Jun 07 13:04 15911 Jun 08 21:44 15911 Jun 14 03:04 15911 Jun 19 10:14 15911 Jun 19 10:14 15911 Jun 18 22:07 15911 Jun 28 23:13 15911 Jun 28 23:13 15911 Jun 28 23:13 15911 Jun 07 04:18 15911 Jul 07 04:18 15911 Jul 07 04:18 15911 Jul 05:19 15911 Aug 12 18:05 15911 Aug 12 18:05 15911 Aug 20 18:28 15911 Aug 21 02:12	4°836'00 4°802'57 5°808'57 5°800'18 17°855'57 25°812'52 0°11 0°95 13°931'33 17°938'12 10°952'07 10°957'15 11°938'59 4°945'36 3°904'49 7°945'45 11°903'52 0°10 18°05'904 0°10 2°1010'51	0°01'28 1.40662 AU 23°28'01 2°52'48 2°51'47 0.69012 AU 20°42'29 1.43659 AU -1°41'33
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	15910 Apr 30 15:32 15910 Apr 30 12:30 15910 May 05 07:25 15910 May 08 02:56 15910 May 14 01:41 15910 May 24 08:11 15910 Jun 15 14:29 15910 Jun 16 06:21 15910 Jun 20 16:05 15910 Jun 25 02:12 15910 Jun 29 19:56 15910 Jul 02 13:39 15910 Jul 05 01:58 15910 Jul 05 01:18 15910 Jul 05 01:18 15910 Jul 05 01:24 15910 Jul 10 06:29 15910 Jul 10 06:29 15910 Jul 23 08:06 15910 Jul 24 09:50 15910 Jul 29 20:03 15910 Aug 19 23:15 15910 Aug 26 04:00 15910 Aug 31 18:01 15910 Sep 08 12:35 15910 Sep 08 12:35	22°801'49 21°848'37 0°	0°34'39 1.42775 AU 22°06'57 3°05'53 3°05'05 0.69115 AU 22°02'51 1.41656 AU -1°07'28	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	15911 Apr 13 00:10 15911 Apr 12 16:59 15911 Apr 13 07:22 15911 Apr 13 05:28 15911 Apr 20 12:17 15911 Apr 24 20:06 15911 Apr 27 18:32 15911 May 18 02:22 15911 May 29 05:26 15911 Jun 07 13:04 15911 Jun 08 21:44 15911 Jun 14 03:04 15911 Jun 19 10:14 15911 Jun 19 10:14 15911 Jun 18 22:07 15911 Jun 24 17:24 15911 Jun 28 23:13 15911 Jun 28 23:13 15911 Jul 07 04:18 15911 Jul 07 04:18 15911 Jul 07 04:18 15911 Jul 10 05:19 15911 Aug 12 18:05 15911 Aug 12 18:05 15911 Aug 12 18:05 15911 Aug 20 18:28 15911 Aug 21 02:12 15911 Aug 30 15:25	4°836'00 4°802'57 5°808'57 5°800'18 17°855'57 25°812'52 0°11 0°95 13°931'33 17°938'51 10°952'07 10°957'15 11°938'59 4°945'36 3°904'49 7°945'45 11°903'52 0°1 18°105'08 13°105'08 13°105'08 13°105'08	0°01'28 1.40662 AU 23°28'01 2°52'48 2°51'47 0.69012 AU 20°42'29 1.43659 AU -1°41'33
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 asc. node	15910 Apr 30 15:32 15910 Apr 30 12:30 15910 May 05 07:25 15910 May 08 02:56 15910 May 14 01:41 15910 May 24 08:11 15910 Jun 15 14:29 15910 Jun 16 06:21 15910 Jun 20 16:05 15910 Jun 25 02:12 15910 Jun 02 13:39 15910 Jul 05 01:58 15910 Jul 05 01:58 15910 Jul 05 01:18 15910 Jul 05 01:24 15910 Jul 05 01:24 15910 Jul 10 06:29 15910 Jul 15 00:30 15910 Jul 23 08:06 15910 Jul 24 09:50 15910 Jul 29 20:03 15910 Aug 19 23:15 15910 Aug 26 04:00 15910 Aug 31 18:01 15910 Sep 08 12:35 15910 Sep 08 12:35 15910 Sep 08 18:02 15910 Sep 08 18:02	22°801'49 21°848'37 0° II 4° II 40'47 14° II 16'24 0° G 29° G21'10 0° \(\Omega\) 3° \(\Omega\) 29' G21'10 0° \(\Omega\) 3° \(\Omega\) 29' G21'10 0° \(\Omega\) 3° \(\Omega\) 29' G21'10 0° \(\Omega\) 20° G36'42 26° G36'42 26° G38'43 20° G22'03 18° G21'49 22° G49'23 23° G51'42 0° \(\Omega\) 0° ID 9° ID 43'45 18° ID 50'27 0° \(\Omega\) 2° \(\Omega\) 88'55 2° \(\Omega\) 32'57 16° \(\Omega\) 55'21	0°34'39 1.42775 AU 22°06'57 3°05'53 3°05'05 0.69115 AU 22°02'51 1.41656 AU -1°07'28	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	15911 Apr 13 00:10 15911 Apr 12 16:59 15911 Apr 13 07:22 15911 Apr 13 05:28 15911 Apr 20 12:17 15911 Apr 24 20:06 15911 Apr 27 18:32 15911 May 18 02:22 15911 May 29 05:26 15911 Jun 07 13:04 15911 Jun 14 03:04 15911 Jun 19 11:44 15911 Jun 19 10:14 15911 Jun 18 22:07 15911 Jun 24 17:24 15911 Jun 28 23:13 15911 Jun 28 23:13 15911 Jun 28 23:13 15911 Jul 07 04:18 15911 Jul 07 04:18 15911 Jul 10 05:19 15911 Jul 24 04:03 15911 Aug 05 17:59 15911 Aug 12 18:05 15911 Aug 12 18:05 15911 Aug 20 18:28 15911 Aug 20 18:28 15911 Aug 20 18:28 15911 Aug 30 15:25 15911 Sep 01 23:33	4°836'00 4°802'57 5°808'57 5°800'18 17°855'57 25°812'52 0°Π 0°9 13°931'33 17°938'59 4°952'07 10°957'15 11°938'59 4°945'45 11°903'52 0°Ω 18°Ω59'04 0°m 2°m10'51 13°m05'08 13°m05'08 13°m37'27 0°Ω 4°Ω6'28	0°01'28 1.40662 AU 23°28'01 2°52'48 2°51'47 0.69012 AU 20°42'29 1.43659 AU -1°41'33
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 asc. node	15910 Apr 30 15:32 15910 Apr 30 12:30 15910 May 05 07:25 15910 May 08 02:56 15910 May 14 01:41 15910 May 24 08:11 15910 Jun 15 14:29 15910 Jun 16 06:21 15910 Jun 20 16:05 15910 Jun 25 02:12 15910 Jun 02 13:39 15910 Jul 05 01:58 15910 Jul 05 01:18 15910 Jul 05 01:24 15910 Jul 05 01:24 15910 Jul 10 06:29 15910 Jul 10 06:29 15910 Jul 23 08:06 15910 Jul 24 09:50 15910 Jul 29 20:03 15910 Aug 19 23:15 15910 Aug 26 04:00 15910 Aug 31 18:01 15910 Sep 08 12:35 15910 Sep 08 12:35 15910 Sep 08 18:02 15910 Sep 16 17:05 15910 Sep 16 17:05	22°801'49 21°848'37 0° II 4° II 40'47 14° II 16'24 0° G 29° G21'10 0° \(\Omega\) 3° \(\Omega\) 29' G21'10 0° \(\Omega\) 3° \(\Omega\) 29' G21'10 0° \(\Omega\) 3° \(\Omega\) 29' G21'10 0° \(\Omega\) 20° G36'42 26° G36'42 26° G38'43 20° G22'03 18° G21'49 22° G49'23 23° G51'42 0° \(\Omega\) 0° ID 9° ID 43'45 18° ID 50'27 0° \(\Omega\) 2° \(\Omega\) 88'55 2° \(\Omega\) 32'57 16° \(\Omega\) 55'21 21° \(\Omega\) 21'32	0°34'39 1.42775 AU 22°06'57 3°05'53 3°05'05 0.69115 AU 22°02'51 1.41656 AU -1°07'28	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	15911 Apr 13 00:10 15911 Apr 12 16:59 15911 Apr 13 07:22 15911 Apr 13 05:28 15911 Apr 20 12:17 15911 Apr 24 20:06 15911 Apr 27 18:32 15911 May 18 02:22 15911 May 29 05:26 15911 Jun 07 13:04 15911 Jun 08 21:44 15911 Jun 14 03:04 15911 Jun 19 11:44 15911 Jun 19 10:14 15911 Jun 18 22:07 15911 Jun 28 23:13 15911 Jun 28 23:13 15911 Jun 28 23:13 15911 Jun 07 04:18 15911 Jun 07 04:18 15911 Jun 10 05:19 15911 Jun 07 04:18 15911 Jun 08 21:24 15911 Jun 08	4°836'00 4°802'57 5°800'18 17°855'57 25°812'52 0°11 0°95 13°915'11 19°923'33 19°931'33 17°918'12 10°952'07 10°957'15 11°938'59 4°945'36 3°904'49 7°945'45 11°903'52 0°Ω 18°Ω59'04 0°10 2°1010'51 13°1005'08 13°1005'08 13°1005'08 13°1005'08	0°01'28 1.40662 AU 23°28'01 2°52'48 2°51'47 0.69012 AU 20°42'29 1.43659 AU -1°41'33 1°41'03
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 asc. node evening rise	15910 Apr 30 15:32 15910 Apr 30 12:30 15910 May 05 07:25 15910 May 08 02:56 15910 May 14 01:41 15910 May 24 08:11 15910 Jun 15 14:29 15910 Jun 16 06:21 15910 Jun 20 16:05 15910 Jun 25 02:12 15910 Jun 02 13:39 15910 Jul 05 01:58 15910 Jul 05 01:18 15910 Jul 05 01:24 15910 Jul 05 01:24 15910 Jul 10 06:29 15910 Jul 15 00:30 15910 Jul 23 08:06 15910 Jul 24 09:50 15910 Jul 29 20:03 15910 Jul 29 20:03 15910 Aug 19 23:15 15910 Aug 26 04:00 15910 Aug 31 18:01 15910 Sep 08 12:35 15910 Sep 08 12:35 15910 Sep 08 18:02 15910 Sep 10 02:12 15910 Sep 19 02:12	22°801'49 21°848'37 0° II 4° II 40'47 14° II 16'24 0° © 29° © 21'10 0° \(\Omega\) 3° \(\Omega\) 29' \(\Omega\) 4° \(\Omega\) 3° \(\Omega\) 20° \(\Omega\) 3° \(\Omega\) 20° \(\Omega\) 30° \(\Omega\) 20° \(\Omega\) 38' 43 20° \(\Omega\) 22' 03 18° \(\Omega\) 21' 49 22° \(\Omega\) 49' 23 23° \(\Omega\) 55' 142 0° \(\Omega\) 0° \(\Omega\) 9° \(\Omega\) 43' 45 18° \(\Omega\) 50' 27 0° \(\Omega\) 2° \(\Omega\) 32' 57 16° \(\Omega\) 55' 21 21° \(\Omega\) 21' 32 0° \(\Omega\)	0°34'39 1.42775 AU 22°06'57 3°05'53 3°05'05 0.69115 AU 22°02'51 1.41656 AU -1°07'28 1°06'42	minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	15911 Apr 13 00:10 15911 Apr 12 16:59 15911 Apr 13 07:22 15911 Apr 13 05:28 15911 Apr 20 12:17 15911 Apr 24 20:06 15911 Apr 27 18:32 15911 May 18 02:22 15911 May 29 05:26 15911 Jun 07 13:04 15911 Jun 14 03:04 15911 Jun 19 11:44 15911 Jun 19 10:14 15911 Jun 19 10:14 15911 Jun 18 22:07 15911 Jun 24 17:24 15911 Jun 28 23:13 15911 Jun 28 23:13 15911 Jun 07 04:18 15911 Jul 07 04:18 15911 Jul 07 04:18 15911 Jul 10 05:19 15911 Jul 24 04:03 15911 Aug 05 17:59 15911 Aug 12 18:05 15911 Aug 14 02:43 15911 Aug 20 18:28 15911 Aug 21 02:12 15911 Aug 30 15:25 15911 Sep 01 23:33 15911 Sep 03 13:43 15911 Sep 03 13:43	4°836'00 4°802'57 5°800'18 17°855'57 25°812'52 0°11 0°99 13°915'11 19°923'33 19°931'33 17°918'12 10°952'07 10°957'15 11°938'59 4°945'36 3°904'49 7°945'45 11°903'52 0°Ω 18°Ω59'04 0°10 2°1010'51 13°105'08 13°105'08 13°105'08 13°105'08 13°105'08 13°105'08	0°01'28 1.40662 AU 23°28'01 2°52'48 2°51'47 0.69012 AU 20°42'29 1.43659 AU -1°41'33 1°41'03

arranina aat	15011 San 27 14:44	2°M48'49		aaa mada	15012 Ave 20 10:21	260 m 20106	
evening set	15911 Sep 27 14:44			asc. node	15912 Aug 20 10:21	26° My 38'06	
	15911 Oct 01 22:01	30° ₹ Ω	002210.5		15912 Aug 22 11:56	0∘ ⊽	10000111
inferior conj	15911 Oct 04 07:32	27° £ 44'25	0°33'05	evening max el	15912 Sep 01 04:37	13° ≏ 20'21	18°08'41
minimum elong	15911 Oct 04 08:32	27° ≏ 41'58	0°33'00	retrograde	15912 Sep 07 13:20	16° ≏ 41'13	
desc. node	15911 Oct 06 02:22	25° ≏ 58'14		evening set	15912 Sep 10 08:17	15° ≏ 59'57	
min. Earth dist.	15911 Oct 07 08:21	24° ≏ 45'52	0.61366 AU	inferior conj	15912 Sep 16 11:27	10° ≏ 38'25	1°36'09
morning rise	15911 Oct 10 23:29	21° ≏ 46′28		minimum elong	15912 Sep 16 13:39	10° ≏ 32'19	1°35'31
direct	15911 Oct 17 15:38	19° ≏ 30′08		min. Earth dist.	15912 Sep 19 01:21	7° ≏ 47'33	0.63586 AU
morning max el	15911 Oct 31 20:19	27° £ 25'32	27°59'03	desc. node	15912 Sep 21 23:44	4° £ 57'31	
	15911 Nov 03 07:32	0°M	_, _, ,,	morning rise	15912 Sep 22 17:00	4° £ 22'52	
	15911 Nov 24 01:09	0° ⊼ ¹		direct	1	1° £ 51'21	
,					15912 Sep 29 08:10		27044112
asc. node	15911 Nov 30 14:44	12° ∡ 14'53		morning max el	15912 Oct 13 05:23	9° £ 50'40	27°44'12
morning set	15911 Dec 04 06:27	19° ∡ ³38'14			15912 Oct 29 00:44	0°M₊	
	15911 Dec 09 02:51	0°₹			15912 Nov 15 09:12	0° ∡ ¹	
max. Earth dist.	15911 Dec 09 21:59	1° る 45'02	1.31332 AU	asc. node	15912 Nov 16 11:37	2° ҂ 10′36	
				morning set	15912 Nov 17 00:44	3° х 16′10	
superior conj	15911 Dec 11 13:18	5° る 22'25	1°25'54	max. Earth dist.	15912 Nov 21 21:39	13° ∡ 20′39	1.32224 AU
minimum elong	15911 Dec 11 11:26	5°る12'03	1°26'31				
evening rise	15911 Dec 18 06:05	20°පි10'56	1 2031	superior conj	15912 Nov 24 20:29	19° √ 41'44	1°10'44
evening rise	15911 Dec 22 22:35	20 ⊙ 10 30		minimum elong	15912 Nov 24 18:09	19° × ⁷ 29'06	1°11'09
1 1				minimum clong			1 11 09
desc. node	15912 Jan 02 00:47	18°≈03'25			15912 Nov 29 13:30	0°る	
	15912 Jan 11 00:13	0° ∀		evening rise	15912 Dec 01 16:53	4° る 38'52	
evening max el	15912 Jan 13 16:08		25°07'32		15912 Dec 15 01:01	0° ≈	
retrograde	15912 Jan 27 12:00	9°) 40′06		desc. node	15912 Dec 18 21:41	5° ≈ 37'41	
evening set	15912 Feb 02 02:37	8° ∺ 29′23		evening max el	15912 Dec 25 02:02	12° ≈ 46′36	23°26'47
min. Earth dist.	15912 Feb 07 04:27	5°) 45′35	0.56421 AU	retrograde	15913 Jan 07 10:20	19° ≈ 23'03	
inferior conj	15912 Feb 09 19:18	4°) €03'41	-4°50'38	evening set	15913 Jan 11 21:35	18° ≈ 39'50	
minimum elong	15912 Feb 10 04:38	3°) 48'30		min. Earth dist.	15913 Jan 18 12:56	15° ≈ 31'15	0.55005 AU
minimum ciong	15912 Feb 17 23:53	30°R≈	7 7/72	inferior conj	15913 Jan 20 00:48	14°≈39'06	
		•		3			
morning rise	15912 Feb 18 09:17	29°≈54'58		minimum elong	15913 Jan 20 06:07	14°≈31'21	5°48'53
direct	15912 Feb 20 11:48	29° ≈ 42'20		morning rise	15913 Jan 28 16:07	10° ≈ 46′30	
	15912 Feb 22 22:01	0° ∀		direct	15913 Jan 31 08:20	10° ≈ 29′09	
asc. node	15912 Feb 26 12:46	1°) 34′06		morning max el	15913 Feb 11 10:08	15° ≈ 50'19	20°31'57
morning max el	15912 Feb 29 23:26	4° ₩ 19'36	19°17'21	asc. node	15913 Feb 12 10:07	16° ≈ 50'47	
	15912 Mar 17 00:34	$0^{\circ}\mathbf{\Upsilon}$			15913 Feb 21 17:32	0° ∀	
morning set	15912 Mar 17 19:41	1° Ƴ 34'57		morning set	15913 Mar 02 02:44	16°) 12'35	
3				3	15913 Mar 08 18:54	$_{0}^{\circ}\mathbf{\gamma}$	
superior conj	15912 Mar 26 01:37	17° Ƴ 54'49	0°33'29		15)15 1144 00 10.51	• •	
	15912 Mar 26 03:32	18° Υ 04'07	0°32'58		15012 M 00 15.50	1° Ƴ 46'36	0050150
minimum elong			0 32 38	superior conj	15913 Mar 09 15:50		
desc. node	15912 Mar 30 02:06	25° Y 33′01		minimum elong	15913 Mar 09 18:23	1° Ƴ 59'32	0°58'39
	15912 Apr 01 12:11	0°8					
max. Earth dist.				max. Earth dist.	15913 Mar 15 01:44	12° Y 28'49	1.36152 AU
evening rise	15912 Apr 01 18:23	0° 8 28'04	1.38373 AU	max. Earth dist. desc. node	15913 Mar 15 01:44 15913 Mar 16 22:44	12° Y 28'49 16° Y 02'29	1.36152 AU
e coming rise			1.38373 AU				1.36152 AU
e vennig 1190	15912 Apr 01 18:23	0° 8 28'04	1.38373 AU	desc. node	15913 Mar 16 22:44	16° Ƴ 02'29	1.36152 AU
evening max el	15912 Apr 01 18:23 15912 Apr 05 11:41 15912 Apr 19 16:48	0° と 28'04 7° と 04'05	1.38373 AU 24°48'10	desc. node	15913 Mar 16 22:44 15913 Mar 18 21:50	16° Υ 02'29 19° Υ 40'55	1.36152 AU
	15912 Apr 01 18:23 15912 Apr 05 11:41 15912 Apr 19 16:48 15912 May 10 18:52	0° 8 28'04 7° 8 04'05 0°П 27°П09'59		desc. node evening rise	15913 Mar 16 22:44 15913 Mar 18 21:50 15913 Mar 24 17:58 15913 Apr 13 17:57	16°Y02'29 19°Y40'55 0°B 0°II	
evening max el	15912 Apr 01 18:23 15912 Apr 05 11:41 15912 Apr 19 16:48 15912 May 10 18:52 15912 May 13 21:36	0°828'04 7°804'05 0°Ⅲ 27°Ⅲ09'59 0°©		desc. node evening rise evening max el	15913 Mar 16 22:44 15913 Mar 18 21:50 15913 Mar 24 17:58 15913 Apr 13 17:57 15913 Apr 23 08:29	16°Y02'29 19°Y40'55 0°B 0°II 11°II02'33	1.36152 AU 26°00'16
evening max el	15912 Apr 01 18:23 15912 Apr 05 11:41 15912 Apr 19 16:48 15912 May 10 18:52 15912 May 13 21:36 15912 May 22 13:41	0°♥28'04 7°♥04'05 0°Ⅲ 27°Ⅲ09'59 0°☞ 4°ℱ02'35		desc. node evening rise evening max el retrograde	15913 Mar 16 22:44 15913 Mar 18 21:50 15913 Mar 24 17:58 15913 Apr 13 17:57 15913 Apr 23 08:29 15913 May 06 00:58	16°Υ02'29 19°Υ40'55 0°℧ 0°П 11°П02'33 18°П19'25	
evening max el retrograde asc. node	15912 Apr 01 18:23 15912 Apr 05 11:41 15912 Apr 19 16:48 15912 May 10 18:52 15912 May 13 21:36 15912 May 22 13:41 15912 May 24 10:07	0°♥28'04 7°♥04'05 0°Ⅲ 27°Ⅲ09'59 0°☞ 4°©02'35 3°©48'08		desc. node evening rise evening max el retrograde asc. node	15913 Mar 16 22:44 15913 Mar 18 21:50 15913 Mar 24 17:58 15913 Apr 13 17:57 15913 Apr 23 08:29 15913 May 06 00:58 15913 May 11 07:16	16°Υ02'29 19°Υ40'55 0°႘ 0°Π 11°Π02'33 18°Π19'25 16°Π29'08	
evening max el	15912 Apr 01 18:23 15912 Apr 05 11:41 15912 Apr 19 16:48 15912 May 10 18:52 15912 May 13 21:36 15912 May 22 13:41 15912 May 24 10:07 15912 May 28 06:26	0°828'04 7°8'04'05 0°II 27°II 09'59 0°9 4°902'35 3°948'08 1°938'06		desc. node evening rise evening max el retrograde asc. node evening set	15913 Mar 16 22:44 15913 Mar 18 21:50 15913 Mar 24 17:58 15913 Apr 13 17:57 15913 Apr 23 08:29 15913 May 06 00:58 15913 May 11 07:16 15913 May 12 04:17	16°Υ02'29 19°Υ40'55 0°႘ 0°Π 11°Π02'33 18°Π19'25 16°Π29'08 15°Π48'26	26°00'16
evening max el retrograde asc. node evening set	15912 Apr 01 18:23 15912 Apr 05 11:41 15912 Apr 19 16:48 15912 May 10 18:52 15912 May 13 21:36 15912 May 22 13:41 15912 May 24 10:07 15912 May 28 06:26 15912 May 29 22:28	0°828'04 7°804'05 0°11 27°1109'59 0°\$ 4°\$02'35 3°\$48'08 1°\$38'06 30°₹11	24°48'10	evening rise evening max el retrograde asc. node evening set min. Earth dist.	15913 Mar 16 22:44 15913 Mar 18 21:50 15913 Mar 24 17:58 15913 Apr 13 17:57 15913 Apr 23 08:29 15913 May 06 00:58 15913 May 11 07:16 15913 May 12 04:17 15913 May 16 08:18	16°Υ02'29 19°Υ40'55 0°Β 0°Π 11°Π02'33 18°Π19'25 16°Π29'08 15°Π48'26 11°Π22'08	26°00'16 0.67378 AU
evening max el retrograde asc. node evening set min. Earth dist.	15912 Apr 01 18:23 15912 Apr 05 11:41 15912 Apr 19 16:48 15912 May 10 18:52 15912 May 13 21:36 15912 May 22 13:41 15912 May 24 10:07 15912 May 28 06:26 15912 May 29 22:28 15912 Jun 01 17:08	0°828'04 7°804'05 0°11 27°1109'59 0°5 4°502'35 3°548'08 1°538'06 30°R11 26°1135'50	24°48'10 0.68429 AU	evening max el retrograde asc. node evening set min. Earth dist. inferior conj	15913 Mar 16 22:44 15913 Mar 18 21:50 15913 Mar 24 17:58 15913 Apr 13 17:57 15913 Apr 23 08:29 15913 May 06 00:58 15913 May 11 07:16 15913 May 12 04:17	16°Υ02'29 19°Υ40'55 0°Β 0°Π 11°Π02'33 18°Π19'25 16°Π29'08 15°Π48'26 11°Π22'08 9°Π18'23	26°00'16
evening max el retrograde asc. node evening set	15912 Apr 01 18:23 15912 Apr 05 11:41 15912 Apr 19 16:48 15912 May 10 18:52 15912 May 13 21:36 15912 May 22 13:41 15912 May 24 10:07 15912 May 28 06:26 15912 May 29 22:28	0°828'04 7°804'05 0°11 27°1109'59 0°\$ 4°\$02'35 3°\$48'08 1°\$38'06 30°₹11	24°48'10	evening rise evening max el retrograde asc. node evening set min. Earth dist.	15913 Mar 16 22:44 15913 Mar 18 21:50 15913 Mar 24 17:58 15913 Apr 13 17:57 15913 Apr 23 08:29 15913 May 06 00:58 15913 May 11 07:16 15913 May 12 04:17 15913 May 16 08:18	16°Υ02'29 19°Υ40'55 0°Β 0°Π 11°Π02'33 18°Π19'25 16°Π29'08 15°Π48'26 11°Π22'08	26°00'16 0.67378 AU
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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	15912 Apr 01 18:23 15912 Apr 05 11:41 15912 Apr 19 16:48 15912 May 10 18:52 15912 May 13 21:36 15912 May 22 13:41 15912 May 24 10:07 15912 May 29 22:28 15912 Jun 01 17:08 15912 Jun 02 19:41 15912 Jun 02 17:39 15912 Jun 08 05:06 15912 Jun 11 23:17 15912 Jun 12 23:17 15912 Jun 26 02:27 15912 Jun 26 01:39 15912 Jul 01 23:37 15912 Jul 14 21:41 15912 Jul 16 07:12	0°828'04 7°804'05 0°	24°48'10 0.68429 AU 2°29'11 2°27'56 19°34'42 -0.6m 1.45118 AU	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	15913 Mar 16 22:44 15913 Mar 18 21:50 15913 Mar 24 17:58 15913 Apr 13 17:57 15913 Apr 23 08:29 15913 May 06 00:58 15913 May 11 07:16 15913 May 12 04:17 15913 May 16 08:18 15913 May 17 23:48 15913 May 17 21:38 15913 May 23 15:42 15913 May 26 23:07 15913 Jun 02 14:15 15913 Jun 12 23:31 15913 Jun 19 19:19 15913 Jun 24 11:13 15913 Jul 09 01:27 15913 Jul 09 11:42 15913 Jul 09 11:42	16°Υ02'29 19°Υ40'55 0°℧ 0°Π 11°Π02'33 18°Π19'25 16°Π29'08 15°Π48'26 11°Π22'08 9°Π18'23 9°Π25'09 3°Π31'36 2°Π29'13 6°Π02'20 19°Π33'54 0°Φ 7°Φ15'26 0°Ω 0°Ω39'58	26°00'16 0.67378 AU 1°54'25 1°53'04 18°42'30 1.45893 AU -2°14'08
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	15912 Apr 01 18:23 15912 Apr 05 11:41 15912 Apr 19 16:48 15912 May 10 18:52 15912 May 13 21:36 15912 May 22 13:41 15912 May 24 10:07 15912 May 28 06:26 15912 May 29 22:28 15912 Jun 01 17:08 15912 Jun 02 19:41 15912 Jun 02 17:39 15912 Jun 08 05:06 15912 Jun 11 23:17 15912 Jun 12 23:17 15912 Jun 26 02:27 15912 Jun 26 01:39 15912 Jul 14 21:41 15912 Jul 16 07:12 15912 Jul 16 07:12 15912 Jul 26 17:00	0°828'04 7°804'05 0° II 27° II 09'59 0° G 4° S02'35 3° S48'08 1° S38'06 30° RII 26° II 35'50 25° II 07'40 25° II 14'27 19° II 10'20 17° II 49'19 21° II 50'17 0° S02'41 0° G 8° S22'09 27° S51'11 0° Ω 16° Ω 11'28	24°48'10 0.68429 AU 2°29'11 2°27'56 19°34'42 -0.6m 1.45118 AU -2°06'13	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.	15913 Mar 16 22:44 15913 Mar 18 21:50 15913 Mar 24 17:58 15913 Apr 13 17:57 15913 Apr 23 08:29 15913 May 06 00:58 15913 May 11 07:16 15913 May 12 04:17 15913 May 16 08:18 15913 May 17 23:48 15913 May 17 21:38 15913 May 23 15:42 15913 May 26 23:07 15913 Jun 02 14:15 15913 Jun 12 23:31 15913 Jun 19 19:19 15913 Jun 24 11:13 15913 Jul 09 01:27 15913 Jul 09 11:42 15913 Jul 09 11:42	16°Υ02'29 19°Υ40'55 0°℧ 0°Ⅲ 11°Ⅲ02'33 18°Ⅲ19'25 16°Ⅲ29'08 15°Ⅲ48'26 11°Ⅲ22'08 9°Ⅲ18'23 9°Ⅲ25'09 3°Ⅲ31'36 2°Ⅲ29'13 6°Ⅲ02'20 19°Ⅲ33'54 0°郖 7°郖15'26 0°Ω 0°Ω39'58 2°Ω22'16 2°Ω19'21 26°Ω49'00	26°00'16 0.67378 AU 1°54'25 1°53'04 18°42'30 1.45893 AU -2°14'08
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.	15912 Apr 01 18:23 15912 Apr 05 11:41 15912 Apr 19 16:48 15912 May 10 18:52 15912 May 13 21:36 15912 May 22 13:41 15912 May 24 10:07 15912 May 28 06:26 15912 May 29 22:28 15912 Jun 01 17:08 15912 Jun 02 19:41 15912 Jun 02 17:39 15912 Jun 08 05:06 15912 Jun 11 23:17 15912 Jun 12 23:17 15912 Jun 26 02:27 15912 Jun 26 02:27 15912 Jul 01 23:37 15912 Jul 14 21:41 15912 Jul 14 21:41 15912 Jul 16 07:12 15912 Jul 26 17:00 15912 Jul 31 00:56 15912 Jul 31 00:56 15912 Jul 31 07:02	0°828'04 7°804'05 0° II 27° II 09'59 0° S 4° S02'35 3° S48'08 1° S38'06 30° RII 26° II 35'50 25° II 07'40 25° II 14'27 19° II 10'20 17° II 49'19 21° II 50'17 0° S02'41 0° S 8° S22'09 27° S51'11 0° Ω 16° Ω11'28 23° Ω03'37 23° Ω27'59	24°48'10 0.68429 AU 2°29'11 2°27'56 19°34'42 -0.6m 1.45118 AU -2°06'13	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	15913 Mar 16 22:44 15913 Mar 18 21:50 15913 Mar 24 17:58 15913 Apr 13 17:57 15913 Apr 23 08:29 15913 May 06 00:58 15913 May 11 07:16 15913 May 12 04:17 15913 May 16 08:18 15913 May 17 23:48 15913 May 17 21:38 15913 May 23 15:42 15913 May 26 23:07 15913 Jun 02 14:15 15913 Jun 12 23:31 15913 Jun 19 19:19 15913 Jun 24 11:13 15913 Jun 09 01:27 15913 Jul 09 11:42 15913 Jul 10 13:55 15913 Jul 10 13:55 15913 Jul 10 13:10 15913 Jul 26 01:45 15913 Jul 26 01:45 15913 Jul 28 01:36	16°Υ02'29 19°Υ40'55 0°℧ 0°П 11°П02'33 18°П19'25 16°П29'08 15°П48'26 11°П22'08 9°П18'23 9°П25'09 3°П31'36 2°П29'13 6°П02'20 19°П33'54 0°Ф 7°Ф15'26 0°Ω 0°Ω39'58 2°Ω22'16 2°Ω19'21 26°Ω49'00 0°™	26°00'16 0.67378 AU 1°54'25 1°53'04 18°42'30 1.45893 AU -2°14'08 2°14'50
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	15912 Apr 01 18:23 15912 Apr 05 11:41 15912 Apr 19 16:48 15912 May 10 18:52 15912 May 13 21:36 15912 May 22 13:41 15912 May 24 10:07 15912 May 28 06:26 15912 May 29 22:28 15912 Jun 01 17:08 15912 Jun 02 19:41 15912 Jun 02 17:39 15912 Jun 08 05:06 15912 Jun 11 23:17 15912 Jun 12 23:17 15912 Jun 26 02:27 15912 Jun 26 01:39 15912 Jul 01 23:37 15912 Jul 14 21:41 15912 Jul 16 07:12 15912 Jul 26 17:00	0°828'04 7°804'05 0° II 27° II 09'59 0° II 27° II 09'59 0° II 4° II 09'35 3° II 19'27 19° II 10'20 17° II 49'19 21° II 50'17 0° II 0° II 0° II 0° II 0° II 0° II 10° II 1	24°48'10 0.68429 AU 2°29'11 2°27'56 19°34'42 -0.6m 1.45118 AU -2°06'13	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.	15913 Mar 16 22:44 15913 Mar 18 21:50 15913 Mar 24 17:58 15913 Apr 13 17:57 15913 Apr 23 08:29 15913 May 06 00:58 15913 May 11 07:16 15913 May 12 04:17 15913 May 16 08:18 15913 May 17 23:48 15913 May 17 21:38 15913 May 23 15:42 15913 May 26 23:07 15913 Jun 02 14:15 15913 Jun 12 23:31 15913 Jun 19 19:19 15913 Jun 24 11:13 15913 Jul 09 01:27 15913 Jul 09 11:42 15913 Jul 10 13:55 15913 Jul 10 13:55 15913 Jul 10 13:10 15913 Jul 26 01:45	16°Υ02'29 19°Υ40'55 0°℧ 0°Ⅲ 11°Ⅲ02'33 18°Ⅲ19'25 16°Ⅲ29'08 15°Ⅲ48'26 11°Ⅲ22'08 9°Ⅲ18'23 9°Ⅲ25'09 3°Ⅲ31'36 2°Ⅲ29'13 6°Ⅲ02'20 19°Ⅲ33'54 0°郖 7°郖15'26 0°Ω 0°Ω39'58 2°Ω22'16 2°Ω19'21 26°Ω49'00	26°00'16 0.67378 AU 1°54'25 1°53'04 18°42'30 1.45893 AU -2°14'08 2°14'50

	15012 4 15 10 04	270m.02150	10022125	1 '11'	15014 1 1 10 00 50	250 002157	0.7
evening max el	15913 Aug 15 18:04	27° m 03'59	18°33'35	greatest brilliancy	15914 Jul 18 02:58	25° Ω 02'57	-0.7m
. 1	15913 Aug 19 18:11	0∘ ⊽		,	15914 Jul 21 11:58	0° m)	
retrograde	15913 Aug 22 05:55	0° ჲ 33'38		asc. node	15914 Jul 25 03:45	5° m 03'25	
	15913 Aug 24 16:22	30°Ŗ ᠓		evening max el	15914 Jul 30 03:29	10° m 55'04	19°15'16
evening set	15913 Aug 25 10:04	29° TD 36'40		retrograde	15914 Aug 06 02:56	14° Mp 46'37	
inferior conj	15913 Aug 31 03:04	23° m 59'59	2°20'49	evening set	15914 Aug 09 16:49	13° m 32'21	
minimum elong	15913 Aug 31 05:20	23° Mp 53'04	2°20'06	inferior conj	15914 Aug 15 03:02	7° Mp 42'01	2°49'40
min. Earth dist.	15913 Sep 02 03:29	21°M 33'06	0.65550 AU	minimum elong	15914 Aug 15 04:44	7° m ,36′29	2°49'00
morning rise	15913 Sep 05 23:24	17° m 35'41		min. Earth dist.	15914 Aug 16 13:17	5° m 50'30	0.67140 AU
desc. node	15913 Sep 08 21:08	15° m 43'53		morning rise	15914 Aug 20 16:00	1° m) 15'32	
direct	15913 Sep 12 08:50	14° m 58'11			15914 Aug 22 08:12	30° ₽ Ω	
morning max el	15913 Sep 25 16:30	22° Mp 48'23	26°57'15	direct	15914 Aug 26 16:14	28° Ω 40'38	
	15913 Oct 02 01:28	0∘ 亚		desc. node	15914 Aug 26 18:33	28° Ω 40'40	
	15913 Oct 22 07:32	0° M .			15914 Aug 31 10:48	0° m)	
morning set	15913 Oct 31 08:36	16° M ₊24'00		morning max el	15914 Sep 08 03:49	6° m 07'13	25°46'41
asc. node	15913 Nov 03 08:27	22°M15'45		C	15914 Sep 26 15:57	0∘ <u>⊽</u>	
max. Earth dist.	15913 Nov 04 12:26	24°M36'14	1.33678 AU	morning set	15914 Oct 14 02:29	28° ≏ 53'08	
	15913 Nov 07 03:37	0° ∡ 7	-1000,0110		15914 Oct 14 17:04	0°M	
	13713 1101 07 03.37	· ^		max. Earth dist.	15914 Oct 17 17:49	5°M40'42	1.35631 AU
superior conj	15913 Nov 08 22:19	3° ∡ ′43′22	0°49'26	asc. node	15914 Oct 21 05:12	12°M25'30	1.55051710
minimum elong	15913 Nov 08 22:19	3° x 43 22	0°49'44	asc. Houc	13914 Oct 21 03.12	12 11623 30	
			0 49 44		15014 0-+ 22 16:02	170 m 10141	092211.1
evening rise	15913 Nov 16 03:04	19° ∡ '03'59		superior conj	15914 Oct 23 16:02	17°M 19'41	0°22'11
	15913 Nov 21 11:05	0°る		minimum elong	15914 Oct 23 14:46	17°ML13'15	0°22'29
desc. node	15913 Dec 05 18:41	21° ろ 56'58			15914 Oct 29 19:51	0° ∡ ¹	
evening max el	15913 Dec 06 14:21	22° る 46'40	21°45'13	evening rise	15914 Oct 31 10:37	3° ∡ ¹20'32	
retrograde	15913 Dec 18 21:39	28° る 51'38			15914 Nov 15 15:23	0°ಕ	
evening set	15913 Dec 22 02:03	28° る 28'51		evening max el	15914 Nov 18 13:49	3° る 18'12	20°17'56
inferior conj	15913 Dec 30 17:11	24° る 38'22	-5°57'16	desc. node	15914 Nov 22 15:47	6° る 36'44	
minimum elong	15913 Dec 30 13:23	24° る 43'41	5°56'14	retrograde	15914 Nov 29 08:47	8° る 40'32	
min. Earth dist.	15913 Dec 30 18:19	24° る 36'46	0.54407 AU	evening set	15914 Dec 01 14:26	8° る 27'46	
morning rise	15914 Jan 08 01:22	20° る 50'27		inferior conj	15914 Dec 10 10:02	4°₹32'00	-5°03'53
direct	15914 Jan 11 17:19	20° る 21'04		minimum elong	15914 Dec 10 00:16	4° ⋜ 46′25	5°00'44
morning max el	15914 Jan 24 05:52	26° る 24'57	22°08'15	min. Earth dist.	15914 Dec 12 00:06	3° ⋜ 35'46	0.54738 AU
	15914 Jan 27 14:05	0° ≈		morning rise	15914 Dec 18 09:32	0° ರ 30'06	
asc. node	15914 Jan 30 07:27	3° ≈ 29'09		C	15914 Dec 20 06:14	30°R. ✓	
	15914 Feb 14 02:35	0° ₩		direct	15914 Dec 23 02:48	29° ∡ ¹42'02	
morning set	15914 Feb 14 13:15	0° ¥ 56'11			15914 Dec 25 22:32	0°₹	
		. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		morning max el	15915 Jan 05 15:42	6° ට 21'51	23°57'38
superior conj	15914 Feb 21 15:11	16° ₩ 01'20	1°18'02	asc. node	15915 Jan 17 04:43	21°る10'38	23 37 30
minimum elong	15914 Feb 21 17:31	16° ¥ 13'37		use. Houe	15915 Jan 22 06:58	0°≈	
max. Earth dist.	15914 Feb 25 15:04	24° H 18'55	1.34207 AU	morning set	15915 Jan 30 01:13	0 ~ 15° ≈ 39'49	
max. Earth dist.	15914 Feb 28 11:17	24 γ (1833	1.54207 AU	morning set	13913 Jan 30 01.13	13 23949	
avanina riaa		2° Υ 53'51		aumarian aani	15015 Eab 05 20:47	0° ∺ 31'03	1°30'42
evening rise	15914 Mar 01 23:02	6° Υ 24'45		superior conj	15915 Feb 05 20:47		1°31'03
desc. node	15914 Mar 03 19:23			minimum elong	15915 Feb 05 22:23		1-31-03
	15914 Mar 17 15:47	0°8			15915 Feb 05 15:05	0°) {	
evening max el	15914 Apr 05 22:24	24° 8 45'05	26°56'41	max. Earth dist.	15915 Feb 08 12:04	6° 米 12'21	1.32661 AU
	15914 Apr 12 11:02	0°II		evening rise	15915 Feb 13 11:53	16°) 34′21	
retrograde	15914 Apr 19 06:24	2° Ⅱ 14'04		desc. node	15915 Feb 18 16:03	26°) 35′24	
	15914 Apr 25 09:21	30° ₹ 8			15915 Feb 20 12:41	0° Υ	
evening set	15914 Apr 25 18:44	29° 8 42'05			15915 Mar 12 04:02	0°8	
asc. node	15914 Apr 28 04:31	27° 8 30'01		evening max el	15915 Mar 19 11:20	8° 8 06'24	27°30'01
min. Earth dist.	15914 Apr 29 17:29	25° 8 49'53	0.65895 AU	retrograde	15915 Apr 02 05:16	15° 8 37'53	
inferior conj	15914 May 01 21:47	23° 8 18'34	1°07'27	evening set	15915 Apr 08 23:36	13° 8 11'28	
minimum elong	15914 May 01 20:09	23° 8 23'19	1°06'17	min. Earth dist.	15915 Apr 12 18:43	9° 8 49'56	0.64039 AU
morning rise	15914 May 07 22:59	17° 8 44'08		inferior conj	15915 Apr 15 10:59	7° 8 01'44	0°07'13
direct	15914 May 10 20:33	16° 8 58'15		minimum elong	15915 Apr 15 10:47	7° 8 02'16	0°06'42
morning max el	15914 May 17 04:21	20° 8 16'17	18°07'03	transit middle	15915 Apr 15 10:47	7° 8 02'16	0°06'42
-	15914 May 24 18:42	$\Pi^{\circ}0$		transit begin	15915 Apr 15 07:57	7° 8 09'43	
desc. node	15914 May 30 20:31	9°Ⅱ28'38		transit end	15915 Apr 15 13:37	6° 8 54'50	
morning set	15914 Jun 05 01:24	17° Ⅲ 51'51		asc. node	15915 Apr 15 01:50	7° 8 25'53	
	15914 Jun 12 14:51	0°95		morning rise	15915 Apr 22 00:15	1° 8 42'02	
				direct	15915 Apr 24 13:01	1° 8 09'47	
superior conj	15914 Jun 19 23:48	11°538'46	-2°01'57	morning max el	15915 Apr 30 21:39	4° 8 24'59	17°48'47
minimum elong	15914 Jun 19 16:23	11°909'43		morning set	15915 May 17 18:44	29° 8 45'50	1, 10 1/
max. Earth dist.	15914 Jun 22 08:28	11 90943 15°920'28	1.45918 AU	desc. node	15915 May 17 18:44 15915 May 17 17:25	29° 8 40'16	
max. Darui Uist.			1.4J210 AU	uese. Houe	•	29° Б 40°16	
avanina risa	15914 Jul 01 18:56	0°Ω 6°Ω41'56			15915 May 17 22:05	υщ	
evening rise	15914 Jul 06 02:55	6° Ω 41'56					

aumorior coni	15015 May 20, 22:07	210Π26112	1922/20	aumorior coni	15016 May 10, 20:49	20π25120	0056140
superior conj	15915 May 30 23:07	21° II 36'12		superior conj	15916 May 10 20:48	2° ∏ 35'38	
minimum elong max. Earth dist.	15915 May 30 14:46 15915 Jun 05 04:16	21° Ⅱ 02'31 29° Ⅱ 55'26	1.45196 AU	minimum elong max. Earth dist.	15916 May 10 15:34 15916 May 17 20:25	2° Ⅱ 13'32 14° Ⅱ 07'20	0°56'33 1.43813 AU
max. Earm dist.	15915 Jun 05 05:26	29 11 33 20	1.43190 AU	evening rise	15916 May 17 20.23 15916 May 25 04:42	25° I I44'57	1.43813 AU
evening rise	15915 Jun 15 14:27	0 ଓ 16° ୭ 06'40		evening rise	15916 May 27 04.42	23 п 44 37	
evening rise	15915 Jun 24 19:12	10 3 00 40			15916 May 27 22:33	0° U	
asc. node	15915 Jul 12 00:35	23° Ω 29'07		evening max el	15916 Jun 25 04:53	8° Ω 42'25	21°22'25
evening max el	15915 Jul 13 07:13	24°Ω48'58	20°12'21	asc. node	15916 Jun 27 21:28	11°Ω08'04	21 22 23
retrograde	15915 Jul 21 01:56	29° Ω 14'17	20 1221	retrograde	15916 Jul 04 00:48	13° Ω 49'55	
evening set	15915 Jul 25 02:07	27° Ω 42'16		evening set	15916 Jul 08 11:54	12° Ω 00'40	
inferior conj	15915 Jul 30 08:36	21° Ω 39'41	3°05'01	inferior conj	15916 Jul 13 17:23	5° Ω 47'24	3°08'39
minimum elong	15915 Jul 30 09:25	21° Ω 36'54	3°04'23	minimum elong	15916 Jul 13 17:15		3°07'57
min. Earth dist.	15915 Jul 31 04:59	20°Ω30'11	0.68285 AU	min. Earth dist.	15916 Jul 14 00:23	5° Ω 23'02	0.68952 AU
morning rise	15915 Aug 04 16:23	15° Ω 15'27			15916 Jul 18 08:43	30°Rூ	
direct	15915 Aug 10 05:27	12° Ω 50'13		morning rise	15916 Jul 18 22:22	29°528'28	
desc. node	15915 Aug 13 15:55	13° Ω 36'41		direct	15916 Jul 23 23:22	27°518'01	
morning max el	15915 Aug 21 14:51	19° Ω 39'05	24°22'01		15916 Jul 30 09:31	$0^{\circ}\Omega$	
C	15915 Aug 30 10:40	0° m/		desc. node	15916 Jul 30 13:14	0° Ω 07'07	
	15915 Sep 19 19:05	0∘ ⊽		morning max el	15916 Aug 03 02:34	3° Ω 18′29	22°52'45
morning set	15915 Sep 26 02:25	10° ≏ 35'20		•	15916 Aug 23 12:11	0° m)	
max. Earth dist.	15915 Sep 29 17:15	16° ≏ 58'08	1.37932 AU	morning set	15916 Sep 06 04:16	21° m 21'07	
				max. Earth dist.	15916 Sep 10 16:33	28° m 54'07	1.40334 AU
superior conj	15915 Oct 06 22:23	0°M23'26	-0°10'19		15916 Sep 11 07:58	0∘ ⊽	
minimum elong	15915 Oct 06 23:03	0°M26'41	0°09'51				
behind sun begin	15915 Oct 06 17:36	0°ML00'27		superior conj	15916 Sep 18 13:18	12° ≏ 45'30	-0°46'20
behind sun end	15915 Oct 07 04:31	0°M52'58		minimum elong	15916 Sep 18 16:54	13° ≏ 01'52	0°45'38
	15915 Oct 06 17:30	0° M.		asc. node	15916 Sep 23 22:38	22° ≙ 45'21	
asc. node	15915 Oct 08 01:56	2°M36'34			15916 Sep 27 18:09	0° M ₊	
evening rise	15915 Oct 15 13:08	17°ML23'07		evening rise	15916 Sep 28 07:36	1°ML04'03	
	15915 Oct 22 02:21	0°⊀		evening max el	15916 Oct 14 06:15	26°M49'09	18°28'29
evening max el	15915 Nov 01 03:51	14° ∡ ³39'14	19°12'02		15916 Oct 18 14:12	0° ∡ ¹	
desc. node	15915 Nov 09 12:57	19° ∡ 14'04		retrograde	15916 Oct 22 02:24	0° ∡ 747'47	
retrograde	15915 Nov 10 08:15	19° ∡ 16′07		evening set	15916 Oct 24 01:47	0° ∡ ³33′25	
evening set	15915 Nov 12 05:34	19° ₹ 05'14			15916 Oct 25 18:04	30°RML	
inferior conj	15915 Nov 20 17:08	14° ₹ ′53'43		desc. node	15916 Oct 26 10:10	29°M41'47	
minimum elong	15915 Nov 20 08:36	15° ≯ 08'03	3°25'58	inferior conj	15916 Oct 31 21:25	26°M01'19	
min. Earth dist.	15915 Nov 23 09:58	13° ∡ ¹05'01	0.55948 AU	minimum elong	15916 Oct 31 17:16	26°M09'28	1°43'17
morning rise	15915 Nov 28 09:11	10° ∡ ¹20'16		min. Earth dist.	15916 Nov 04 02:36	23°M30'42	0.57820 AU
direct	15915 Dec 03 23:31	9° ∡ 08'05		morning rise	15916 Nov 08 05:17	20°M50'50	
morning max el	15915 Dec 18 01:19	16° ∡ 17'14	25°42'44	direct	15916 Nov 14 11:03	19°M11'34	2700 4120
	15915 Dec 29 03:45	0°る		morning max el	15916 Nov 28 17:26	26°M43'37	27°04'28
asc. node	15916 Jan 04 01:56	9° る 39'40			15916 Dec 01 20:39	0° ⊼ ¹	
	15916 Jan 14 09:25	0°≈		asc. node	15916 Dec 20 23:03	28° ∡ 744′06	
morning set	15916 Jan 14 12:43	0° ≈ 17'44			15916 Dec 21 15:10	0°る	
	15016 I 21 06:15	1500,00000	1927100	morning set	15916 Dec 28 22:00	14° る 45'27	
superior conj	15916 Jan 21 06:15 15916 Jan 21 06:50	15°≈08'29	1°37'09 1°37'45	superior conj	15017 Ion 04 17:22	29° る 48'02	1°37'32
minimum elong max. Earth dist.	15916 Jan 22 15:29	15°≈11'46 18°≈12'28	1.31598 AU	minimum elong	15917 Jan 04 17:32 15917 Jan 04 17:04	29° る 45'25	1°38'14
evening rise	15916 Jan 28 09:27	0° ¥ 34'47	1.31370 AU	minimum ciong	15917 Jan 04 17:04 15917 Jan 04 19:40	29 ℃ 43 23	1 30 17
evening rise	15916 Jan 28 02:47	0° X 3447		max. Earth dist.	15917 Jan 04 17:40	0°≈16'18	1.31064 AU
desc. node	15916 Feb 05 12:43	16° ∺ 28'27		evening rise	15917 Jan 04 22:33	0 ≈10 18 14°≈49'37	1.51007 AU
desc. Hode	15916 Feb 13 12:50	0°Υ		evening rise	15917 Jan 19 02:39	0° \	
evening max el	15916 Feb 29 21:15	20° Υ 53'19	27°33'42	desc. node	15917 Jan 22 09:26	5° ¥ 57'00	
retrograde	15916 Mar 14 20:32	28° Υ 20'08	2, 33 .2	dese. node	15917 Feb 08 05:12	0°Υ	
evening set	15916 Mar 21 16:11	26° Υ 06'46		evening max el	15917 Feb 11 01:46	2° Υ 54'46	27°03'06
min. Earth dist.	15916 Mar 25 10:28	23° Υ 09'56	0.61905 AU	retrograde	15917 Feb 25 02:40	10° Υ 11'32	_,
inferior conj	15916 Mar 28 12:05	20° Υ 18'52		evening set	15917 Mar 03 17:20	8° Υ 18'52	
minimum elong	15916 Mar 28 14:24	20°Υ13'26		min. Earth dist.	15917 Mar 07 16:04	5° Υ 37'29	0.59652 AU
asc. node	15916 Mar 31 23:11	17° Ƴ 19′20		inferior conj	15917 Mar 10 21:23	3° Y ′00′29	
morning rise	15916 Apr 04 15:47	15° Υ 16'29		minimum elong	15917 Mar 11 03:10		2°30'18
direct	15916 Apr 06 21:03	14° Y 54'31			15917 Mar 14 22:21	30° ₹ ₩	
morning max el	15916 Apr 13 15:02	18° Ƴ 18'40	17°48'10	morning rise	15917 Mar 18 16:32	28° 升 17'54	
-	15916 Apr 22 03:03	0°8		asc. node	15917 Mar 18 20:32	28° 升 15'30	
morning set	15916 Apr 29 10:35	12° 8 42'20		direct	15917 Mar 20 16:41	28°) €02'33	
desc. node	15916 May 03 14:13	20° 8 02'56			15917 Mar 26 02:45	0° Y	
	15916 May 09 08:05	$\Pi^{\circ}0$		morning max el	15917 Mar 28 04:59	1° Ƴ 46'57	18°06'20
				morning set	15917 Apr 12 19:07	26° Ƴ 24'19	

	15917 Apr 14 17:27	0°8		morning set	15918 Mar 27 15:16	10° Ƴ 36′29	
desc. node	15917 Apr 20 10:58	10° 8 32'33		:	15010 4 05 00.47	27° Y 31'15	0°15'59
gunariar aani	15917 Apr 22 17:32	14° 8 37'24	0010141	superior conj minimum elong	15918 Apr 05 09:47 15918 Apr 05 10:50	27° Υ 31'15	0°15'59 0°15'29
superior conj minimum elong	15917 Apr 22 17:59 15917 Apr 22 15:59	14° 8 30'29		behind sun begin	15918 Apr 05 10:30	27° Y 28'37	0 13 29
max. Earth dist.	15917 Apr 30 07:50	27° 8 44'08		behind sun end	15918 Apr 05 12:26	27° Y 43'41	
max. Dartii dist.	15917 May 01 16:29	0°Ⅱ	1.11711110	oemina san ena	15918 Apr 06 17:38	0°8	
evening rise	15917 May 05 11:10	6° Ⅱ 09'47		desc. node	15918 Apr 07 07:40	1° 8 04'56	
Č	15917 May 21 03:28	0ంతె		max. Earth dist.	15918 Apr 12 15:29	10° 8 40'27	1.39697 AU
evening max el	15917 Jun 07 21:45	22° © 36'15	22°41'07	evening rise	15918 Apr 16 14:45	17° 8 30'08	
asc. node	15917 Jun 14 18:24	27°5545'28			15918 Apr 24 07:11	$\Pi^{\circ}0$	
retrograde	15917 Jun 17 21:53	28° 5 28'14			15918 May 15 14:44	0 \circ \odot	
evening set	15917 Jun 22 20:26	26° © 23'12		evening max el	15918 May 21 12:01	6° © 31'35	24°02'43
inferior conj	15917 Jun 28 03:21	20° © 01'11	3°01'34	retrograde	15918 Jun 01 15:55	13° © 03'55	
minimum elong	15917 Jun 28 02:18	20° © 04'50	3°00'42	asc. node	15918 Jun 01 15:23	13° © 03'55	
min. Earth dist.	15917 Jun 27 21:17	20°©22'17	0.69134 AU	evening set	15918 Jun 07 02:09	10° © 45'33	
morning rise	15917 Jul 03 08:01	13° © 49'35		min. Earth dist.	15918 Jun 11 17:32	5° © 22'07	0.68825 AU
direct	15917 Jul 07 20:49	11°957'17	01005110	inferior conj	15918 Jun 12 12:35	4°517'24	2°44'06
morning max el	15917 Jul 16 17:35	17°505'51	21°27'12	minimum elong	15918 Jun 12 10:49	4°©23'23 30°RⅡ	2°42'59
desc. node	15917 Jul 17 10:31 15917 Jul 27 07:04	17° © 49'00 0° Ω		morning rise	15918 Jun 15 22:16 15918 Jun 17 19:31	30°KⅡ 28°Ⅱ14'36	
	15917 Aug 16 13:27	0°m)		direct	15918 Jun 21 20:24	26° I I42'03	
morning set	15917 Aug 10 15.27 15917 Aug 17 06:09	1° m) 05'40		direct	15918 Jun 28 11:31	0°95	
max. Earth dist.	15917 Aug 23 21:02	11° Mp 43'21	1.42564 AU	morning max el	15918 Jun 29 14:50	1° 5 04'14	20°11'52
	107111111111111111111111111111111111111			desc. node	15918 Jul 04 07:44	6°\$24'06	
superior conj	15917 Aug 31 08:21	24° m) 15'31	-1°22'37		15918 Jul 20 22:30	$0^{\circ}\Omega$	
minimum elong	15917 Aug 31 15:02	24° m 44'17	1°21'54	morning set	15918 Jul 27 13:45	10° Ω 05'46	
_	15917 Sep 03 15:38	0∘ ⊽		max. Earth dist.	15918 Aug 06 08:44	25° Ω 24'34	1.44363 AU
asc. node	15917 Sep 10 19:15	12° ≏ 47'40			15918 Aug 09 05:28	0° ™	
evening rise	15917 Sep 11 14:00	14° ≏ 12'36					
	15917 Sep 20 13:43	0° M		superior conj	15918 Aug 12 04:15	4° m)47'17	
evening max el	15917 Sep 27 16:41	9° ™ 37'34	18°05'45	minimum elong	15918 Aug 12 11:57	-	1°53'23
retrograde	15917 Oct 04 14:52	13°M10'42		evening rise	15918 Aug 25 03:31	26° m/37'05	
evening set	15917 Oct 06 20:49	12°M48'33		1	15918 Aug 27 02:40	0° ⊽	
desc. node inferior conj	15917 Oct 13 07:28 15917 Oct 13 22:54	8°M30'17 7°M55'20	0012112	asc. node evening max el	15918 Aug 28 15:53 15918 Sep 11 07:01	2° £ 39'48 22° £ 54'27	18°02'18
minimum elong	15917 Oct 13 22:34 15917 Oct 13 22:30	7°M56'15		retrograde	15918 Sep 17 07:01	22 ⊆ 3427 26° ⊆ 15'54	16 02 16
transit middle	15917 Oct 13 22:30	7°M56'15		evening set	15918 Sep 20 07:50	25° Ω 42'23	
transit begin	15917 Oct 13 20:11	8°M01'33	0 1137	inferior conj	15918 Sep 26 18:24		1°02'14
transit end	15917 Oct 14 00:50	7° M 50'57		minimum elong	15918 Sep 26 20:04	20° Ω 25'49	1°01'50
min. Earth dist.	15917 Oct 17 03:50	5°M01'11	0.60049 AU	min. Earth dist.	15918 Sep 29 14:56	17° ≏ 32'59	0.62338 AU
morning rise	15917 Oct 20 20:58	2°M12'29		desc. node	15918 Sep 30 04:49	16° ≙ 58'59	
direct	15917 Oct 27 11:23	0°M08'03		morning rise	15918 Oct 03 05:52	14° ≏ 23'47	
morning max el	15917 Nov 10 17:31	7°M56'16	27°50'27	direct	15918 Oct 09 22:18	12° ჲ 00'13	
	15917 Nov 27 12:59	0° ∡ ¹		morning max el	15918 Oct 24 00:13	19° ≏ 57'35	27°57'06
asc. node	15917 Dec 07 20:05	18° ∡ 13'53			15918 Nov 01 15:10	0° M	
morning set	15917 Dec 13 03:10	28° ∡ ′57'31			15918 Nov 20 12:34	0° ∡ ¹	
	15917 Dec 13 14:59	0°る		asc. node	15918 Nov 24 17:03	8° ∡ 01'55	
max. Earth dist.	15917 Dec 19 05:52	12° る 16'01	1.31078 AU	morning set	15918 Nov 27 02:08	12° х 49'25	1 21/51 417
superior conj	15917 Dec 20 04:43	14° る 23'31	1021154	max. Earth dist.	15918 Dec 02 09:35	24° 尽 03'31	1.31651 AU
minimum elong	15917 Dec 20 04:43 15917 Dec 20 03:17	14 3 23 31		superior conj	15918 Dec 04 13:56	28° ∡ ¹50'07	1°20'13
evening rise	15917 Dec 26 21:23	29° ට 13'00	1 32 34	minimum elong	15918 Dec 04 11:49	28° × ³ 38'28	1°20'45
e vennig rise	15917 Dec 27 06:06	0° ≈		minimum crong	15918 Dec 05 02:36	0°る	1 20 15
desc. node	15918 Jan 09 06:11	24° ≈ 51'16		evening rise	15918 Dec 11 07:42	13° る 40'37	
	15918 Jan 12 12:53	0°) €		0.08	15918 Dec 19 08:42	0° ≈	
evening max el	15918 Jan 23 22:35	14°) €03'25	25°57'59	desc. node	15918 Dec 27 03:02	12° ≈ 59'09	
retrograde	15918 Feb 06 21:24	21°) €06'51		evening max el	15919 Jan 05 11:15	24° ≈ 23'35	24°25'51
evening set	15918 Feb 12 23:24	19°) 40′18			15919 Jan 13 12:16	0°) €	
min. Earth dist.	15918 Feb 17 11:42		0.57505 AU	retrograde	15919 Jan 19 02:57	1°) 11'36	
inferior conj	15918 Feb 20 11:19	14° ¥ 56′11		evening set	15919 Jan 24 07:12	0°) 12′52	
minimum elong	15918 Feb 20 20:11	14°) 40′33	3°59'40		15919 Jan 24 20:38	30° ₹ ≈	
morning rise	15918 Feb 28 20:02	10°) €34'58		min. Earth dist.	15919 Jan 29 23:01		0.55739 AU
direct	15918 Mar 02 19:39	10°) €22'26		inferior conj	15919 Feb 01 04:02	25°≈59'42	
asc. node	15918 Mar 05 17:53	10° ¥ 51'10	10045102	minimum elong	15919 Feb 01 12:31	25°≈46'38	5~18'31
morning max el	15918 Mar 11 11:28	14°) €37'48 0° °	18°45'03	morning rise	15919 Feb 09 19:52	21°≈58'49 21°≈44'48	
	15918 Mar 22 01:01	U 1		direct	15919 Feb 12 03:04	∠ı ≫ 44.48	

asc. node	15919 Feb 20 15:16	25° ≈ 12'21		direct	15920 Jan 23 17:02	2° ≈ 06'59	
morning max el	15919 Feb 22 06:21	26° ≈ 39'53	19°46'18	morning max el	15920 Feb 04 10:38	7° ≈ 46′28	21°10'42
	15919 Feb 25 06:28	0° ∀		asc. node	15920 Feb 07 12:38	11° ≈ 06′18	
morning set	15919 Mar 11 19:11	25° ₭ 07'20			15920 Feb 19 07:42	0° ∀	
	15919 Mar 14 04:54	0° Ƴ		morning set	15920 Feb 24 04:01	9°) 48′37	
	15010 M 10 17-00	11° Y '05'04	0945107	:	15020 M 02 11.42	250 W 00114	1007151
superior conj	15919 Mar 19 17:09		0°45'06	superior conj	15920 Mar 02 11:43	25° ¥ 08'14	1°07'51
minimum elong	15919 Mar 19 19:28	11°Υ16'29	0°44'38	minimum elong	15920 Mar 02 14:15	25°) €21'19	1°07'40
desc. node	15919 Mar 25 04:17	21° Y ′36'17			15920 Mar 04 20:47	0° Υ	
max. Earth dist.	15919 Mar 25 21:55	22° Y ′58'25	1.37404 AU	max. Earth dist.	15920 Mar 07 07:22	4° Υ 52'21	1.35274 AU
evening rise	15919 Mar 29 14:34	29° Y ′41′02		evening rise	15920 Mar 11 07:34	12° Y 34'23	
	15919 Mar 29 18:50	0°8		desc. node	15920 Mar 11 00:55	12° Y ′03′13	
	15919 Apr 17 13:54	Π °0			15920 Mar 21 05:47	$0^{\circ}S$	
evening max el	15919 May 04 01:26	20° Ⅲ 25'50	25°20'20		15920 Apr 11 14:40	Π \circ 0	
retrograde	15919 May 16 05:51	27° Ⅱ 29'46		evening max el	15920 Apr 15 15:02	4° Ⅱ 14'31	26°26'36
asc. node	15919 May 19 12:30	26° Ⅱ 45′24		retrograde	15920 Apr 28 14:50	11° Ⅱ 38'32	
evening set	15919 May 22 03:23	25° Ⅱ 01'45		evening set	15920 May 04 22:23	9° Ⅱ 06′01	
min. Earth dist.	15919 May 26 11:02	20° Ⅱ 15'15	0.68036 AU	asc. node	15920 May 05 09:42	8° Ⅱ 42'04	
inferior conj	15919 May 27 19:08	18° Ⅲ 31′05	2°15'53	min. Earth dist.	15920 May 08 23:50	4° Ⅱ 54'49	0.66794 AU
minimum elong	15919 May 27 16:59	18° Ⅲ 38′05	2°14'34	inferior conj	15920 May 10 20:57	2° Ⅱ 37'50	1°36'06
morning rise	15919 Jun 02 06:59	12° Ⅲ 38'18		minimum elong	15920 May 10 18:55	2° Ⅱ 44'01	1°34'45
direct	15919 Jun 05 20:33	11° Ⅲ 25′22		Č	15920 May 13 03:00	30°R ∀	
morning max el	15919 Jun 12 19:26	15° Ⅱ 12'34	19°10'37	morning rise	15920 May 16 16:28	26° 8 56'22	
desc. node	15919 Jun 21 04:51	25° I 37'44	1, 100,	direct	15920 May 19 19:32	26° 8 01'27	
desc. node	15919 Jun 24 05:27	0°95		morning max el	15920 May 26 06:39	29° 8 26'39	18°25'25
greatest brilliancy	15919 Jun 25 15:29	2° © 05'56	-0.7m	morning max or	15920 May 26 20:01	0°Ⅱ	10 23 23
morning set	15919 Jul 06 19:16	19° © 05'25	-0.7111	desc. node	15920 Jun 07 01:54	15° Ⅱ 19'45	
morning set		0°Ω				28° ∏ 57'10	
Fault die	15919 Jul 13 20:39		1 45540 ATT	morning set	15920 Jun 15 18:09	28 π 3/10	
max. Earth dist.	15919 Jul 20 01:48	9-864113	1.45540 AU		15920 Jun 16 10:04	0.50	
superior conj	15919 Jul 23 02:01	14° Ω 25'07	-2°11'58	superior conj	15920 Jul 01 11:33	23° © 37'12	-2°11'21
minimum elong	15919 Jul 23 05:42	14° Ω 39'39	2°12'29	minimum elong	15920 Jul 01 07:29	23° 5 21'21	2°12'00
-	15919 Aug 01 20:00	o∘ m y		max. Earth dist.	15920 Jul 01 21:28	24°915'51	1.45993 AU
evening rise	15919 Aug 06 18:53	8° m)04'11			15920 Jul 05 13:49	$0^{\circ}\Omega$	
asc. node	15919 Aug 15 12:32	22° m/16'30		evening rise	15920 Jul 17 09:10	18° Ω 28'09	
	15919 Aug 20 14:44	0∘ <u>⊽</u>		<i>3</i> - 1	15920 Jul 24 17:46	0° m)	
evening max el	15919 Aug 25 21:36	6° ჲ 30'01	18°17'03	greatest brilliancy	15920 Jul 26 11:41	2° m/42'24	-0.8m
retrograde	15919 Sep 01 06:36	9° ഫ 53'12		asc. node	15920 Aug 01 09:14	11° m) 31'59	******
evening set	15919 Sep 04 05:23	9° Ω 05'29		evening max el	15920 Aug 08 09:33	20° m) 17'07	18°49'15
inferior conj	15919 Sep	3° ₽ 36'56	1°57'12	retrograde	15920 Aug 15 01:31	23° m/54'56	10 47 13
minimum elong	15919 Sep 10 05:47	3° ⊆ 30'10	1°56'29	evening set	15920 Aug 18 09:38	22° m/50'53	
min. Earth dist.	15919 Sep 10 00:00	ე° ჲ 54'49	0.64464 AU	inferior conj	15920 Aug 23 23:21	17° m) 08'10	2°34'49
iiiii. Eartii tiist.	15919 Sep 12 11:59 15919 Sep 13 07:58	0 ==3449 30°R, m)	0.04404 AU	minimum elong	15920 Aug 23 23:21 15920 Aug 24 01:26	17 my 03 10	2°34'06
mamina riaa	15919 Sep 16 05:13			•	-	~	0.66277 AU
morning rise	•	27° TQ 16'34		min. Earth dist.	15920 Aug 25 17:47	14° m 55'01	0.002// AU
desc. node	15919 Sep 17 02:14	26° Mp 37'30		morning rise	15920 Aug 29 16:17	10° Mp 41'55	
direct	15919 Sep 22 18:17	24° m/41'43		desc. node	15920 Sep 02 23:39	8° Mp 18'49	
	15919 Oct 03 14:59	0∘ ⊽	27027112	direct	15920 Sep 04 22:01	8° Mp 04'29	2 (020120
morning max el	15919 Oct 06 10:43	2° △ 38'43	27°27'42	morning max el	15920 Sep 17 22:16	15° m) 47'17	26°29'29
_	15919 Oct 26 22:55	0° M ,			15920 Sep 29 16:14	0∘ ⊽	
morning set	15919 Nov 10 16:24	26°M15′22			15920 Oct 18 18:44	0° M ₊	
asc. node	15919 Nov 11 13:55	28°M₀02'04		morning set	15920 Oct 23 18:51	9° M 08'03	
	15919 Nov 12 13:25	0° ∡ ¹		max. Earth dist.	15920 Oct 27 16:35	16°M39'43	1.34452 AU
max. Earth dist.	15919 Nov 15 06:00	5° ∡ 31'21	1.32780 AU	asc. node	15920 Oct 28 10:43	18°M09'32	
superior conj	15919 Nov 18 19:08	13° ∡ '02'20	1°02'25	superior conj	15920 Nov 01 17:54	26°M53'55	0°38'34
minimum elong	15919 Nov 18 16:46	12° ∡ ¹49'40	1°02'48	minimum elong	15920 Nov 01 15:59		0°38'51
evening rise	15919 Nov 25 18:30	28° х ¹07'53			15920 Nov 03 05:37	0° ∡ 7	
	15919 Nov 26 15:32	0°る		evening rise	15920 Nov 09 03:51	12° × ⁷ 29'45	
desc node		0°≈04'12		evening rise		0°る	
desc. node	15919 Dec 13 23:59			avaning may al	15920 Nov 18 02:12	0°る 14° る 29'25	21905142
arrania 1	15919 Dec 13 22:37	0°≈ 4°aa10!26	22042121	evening max el	15920 Nov 28 12:57		41 03 43
evening max el	15919 Dec 17 20:46	4°≈19'36	22-42-51	desc. node	15920 Nov 29 21:02	15°る44'16	
retrograde	15919 Dec 30 20:09	10°≈44'57		retrograde	15920 Dec 10 06:12	20°る17'39	
evening set	15920 Jan 03 18:13	10°≈11'25	0.5485= :==	evening set	15920 Dec 12 22:55	20°る00'33	#0.44***
min. Earth dist.	15920 Jan 11 05:34	6°≈46'30	0.54637 AU	inferior conj	15920 Dec 21 17:25	16° る 09'28	
inferior conj	15920 Jan 12 02:38	6°≈16'41		minimum elong	15920 Dec 21 10:12	16° る 19'42	
minimum elong	15920 Jan 12 04:21	6°≈14'16	5°59'56	min. Earth dist.	15920 Dec 22 11:02	15° る 44'28	0.54426 AU
morning rise	15920 Jan 20 15:41	2° ≈ 28′23		morning rise	15920 Dec 29 21:40	12° る 17'43	

		_					
direct	15921 Jan 03 00:25	11° ⋜ 41'13		inferior conj	15921 Dec 01 15:03	26° ≯ 12'12	-4°27'03
morning max el	15921 Jan 16 01:21	18° る 02'09	22°54'05	minimum elong	15921 Dec 01 05:05	26° ₹ 27'39	4°23'18
asc. node	15921 Jan 24 09:57	28° る 13'37		min. Earth dist.	15921 Dec 03 18:23	24° ₹ 52'45	0.55160 AU
	15921 Jan 25 14:05	0° ≈		morning rise	15921 Dec 09 11:19	21° ₹ 58'24	
morning set	15921 Feb 07 15:23	24° ≈ 32'37		direct	15921 Dec 14 14:29	21° 尽 00′18	
8	15921 Feb 10 04:22	0°) €		morning max el	15921 Dec 28 09:49	27° ₹ 53'37	24°43'53
	13721100 10 01.22	٥ ٨		morning max cr	15921 Dec 30 11:49	0°ਰ	21 1333
	15021 E-L 14 14.04	9° ₩ 30'17	1924!10	4-		0 3 16° 3 17'10	
superior conj	15921 Feb 14 14:04			asc. node	15922 Jan 11 07:12		
minimum elong	15921 Feb 14 16:08	9° 米 41'19	1°24'20		15922 Jan 18 17:11	0° ≈	
max. Earth dist.	15921 Feb 17 23:37	16°) 41′06	1.33488 AU	morning set	15922 Jan 23 03:21	9° ≈ 14'08	
evening rise	15921 Feb 22 14:07	25° ¥ 59'59					
	15921 Feb 24 15:44	0 ° Υ		superior conj	15922 Jan 29 21:35	24° ≈ 03'53	1°34'10
desc. node	15921 Feb 25 21:33	2° Y 20'53		minimum elong	15922 Jan 29 22:46	24°≈10′25	1°34'38
	15921 Mar 14 15:18	0°B		max. Earth dist.	15922 Jan 31 23:34	28°≈36'57	1.32153 AU
evening max el	15921 Mar 29 04:36	17° 8 48'48	27°14'08		15922 Feb 01 14:55	0°) €	
retrograde	15921 Apr 11 17:51	25° 8 20'46	27 1100	evening rise	15922 Feb 06 07:03	9°) 49'55	
-	•	22° 8 50'12		-		22°)(24'33	
evening set	15921 Apr 18 09:02			desc. node	15922 Feb 12 18:12		
min. Earth dist.	15921 Apr 22 05:56	19° 8 11'29	0.65141 AU		15922 Feb 17 00:30	0° Υ	
asc. node	15921 Apr 22 07:00	19° 8 08'36			15922 Mar 10 17:22	9° 8	
inferior conj	15921 Apr 24 15:32	16° 8 31'15	0°43'35	evening max el	15922 Mar 11 16:41		27°35'36
minimum elong	15921 Apr 24 14:23	16° 8 34'28	0°42'37	retrograde	15922 Mar 25 13:36	8° 8 27'10	
morning rise	15921 Apr 30 21:32	11° 8 02'47		evening set	15922 Apr 01 08:58	6° 8 05'45	
direct	15921 May 03 15:07	10° 8 23'13		min. Earth dist.	15922 Apr 05 03:26	2° 8 55'15	0.63156 AU
morning max el	15921 May 09 22:27	13° 8 38'59	17°57'07	inferior conj	15922 Apr 07 23:59	0° 8 04'09	
morning max or	15921 May 21 15:54	0°II	17 37 07	minimum elong	15922 Apr 08 00:43	0° 8 02'19	
	•			minimum clong		_	0 22 30
desc. node	15921 May 24 22:50	5° Ⅱ 21'55			15922 Apr 08 01:39	30°RΥ	
morning set	15921 May 27 20:05	10° Ⅱ 06'37		asc. node	15922 Apr 09 04:20	28° Y 54′08	
	15921 Jun 09 02:25	0		morning rise	15922 Apr 14 19:08	24° Y 51'08	
				direct	15922 Apr 17 04:29	24° Ƴ 23'41	
superior conj	15921 Jun 11 01:25	3° 5 06'31	-1°51'26	morning max el	15922 Apr 23 16:04	27° Ƴ 41'30	17°46'14
minimum elong	15921 Jun 10 16:53	2° © 32'42	1°51'31		15922 Apr 25 18:44	8° 0	
max. Earth dist.	15921 Jun 14 17:30	8° © 53'14	1.45693 AU	morning set	15922 May 09 23:41	22° 8 28'54	
evening rise	15921 Jun 27 02:36	28° © 03'10		desc. node	15922 May 11 19:40	25° 8 38'22	
	15921 Jun 28 09:07	$0 \circ \Omega$			•	о∘π	
grantest brillianav	15921 Jun 28 09:07	0° Ω	0.6m		15922 May 14 08:43	Π °0	
greatest brilliancy	15921 Jul 10 23:07	18° Ω 57'43	-0.6m		15922 May 14 08:43		1010122
	15921 Jul 10 23:07 15921 Jul 18 23:58	18° Ω 57'43 0° ™	-0.6m	superior conj	15922 May 14 08:43 15922 May 22 09:33	13° Ⅱ 27'54	
asc. node	15921 Jul 10 23:07 15921 Jul 18 23:58 15921 Jul 19 06:00	18° \O 57'43 0° m/ 0° m/18'35		minimum elong	15922 May 14 08:43 15922 May 22 09:33 15922 May 22 02:16	13° П 27'54 12° П 57'59	1°18'11
	15921 Jul 10 23:07 15921 Jul 18 23:58	18° Ω 57'43 0° ™	-0.6m 19°37'52		15922 May 14 08:43 15922 May 22 09:33	13°П27'54 12°П57'59 23°П19'24	
asc. node	15921 Jul 10 23:07 15921 Jul 18 23:58 15921 Jul 19 06:00	18° \O 57'43 0° m/ 0° m/18'35		minimum elong	15922 May 14 08:43 15922 May 22 09:33 15922 May 22 02:16	13° П 27'54 12° П 57'59	1°18'11
asc. node evening max el	15921 Jul 10 23:07 15921 Jul 18 23:58 15921 Jul 19 06:00 15921 Jul 22 16:42	18° \$\Omega 57'43\$ 0° my 0° my 18'35 4° my 09'54		minimum elong	15922 May 14 08:43 15922 May 22 09:33 15922 May 22 02:16 15922 May 28 11:53	13°П27'54 12°П57'59 23°П19'24	1°18'11
asc. node evening max el retrograde	15921 Jul 10 23:07 15921 Jul 18 23:58 15921 Jul 19 06:00 15921 Jul 22 16:42 15921 Jul 29 23:37	18° \$\Omega 57'43\$ 0° m 0° m 18'35 4° m 09'54 8° m 14'35	19°37'52	minimum elong max. Earth dist.	15922 May 14 08:43 15922 May 22 09:33 15922 May 22 02:16 15922 May 28 11:53 15922 Jun 01 17:27	13°П27'54 12°П57'59 23°П19'24 0°©	1°18'11
asc. node evening max el retrograde evening set inferior conj	15921 Jul 10 23:07 15921 Jul 18 23:58 15921 Jul 19 06:00 15921 Jul 22 16:42 15921 Jul 29 23:37 15921 Aug 02 17:44 15921 Aug 08 02:01	18° \Omega 57'43 0° mp 0° mp 18'35 4° mp 09'54 8° mp 14'35 6° mp 52'58	19°37'52	minimum elong max. Earth dist.	15922 May 14 08:43 15922 May 22 09:33 15922 May 22 02:16 15922 May 28 11:53 15922 Jun 01 17:27 15922 Jun 06 13:08 15922 Jun 21 16:02	13°Π27'54 12°Π57'59 23°Π19'24 0°\$ 7°\$27'52 0°Ω	1°18'11
asc. node evening max el retrograde evening set	15921 Jul 10 23:07 15921 Jul 18 23:58 15921 Jul 19 06:00 15921 Jul 22 16:42 15921 Jul 29 23:37 15921 Aug 02 17:44 15921 Aug 08 02:01 15921 Aug 08 03:22	18° \$\Omega 57'43 0° mp 0° mp 18'35 4° mp 09'54 8° mp 14'35 6° mp 52'58 0° mp 57'30 0° mp 53'01	19°37'52 2°57'40	minimum elong max. Earth dist. evening rise	15922 May 14 08:43 15922 May 22 09:33 15922 May 22 02:16 15922 May 28 11:53 15922 Jun 01 17:27 15922 Jun 06 13:08 15922 Jun 21 16:02 15922 Jul 05 17:52	13° Π27'54 12° Π57'59 23° Π19'24 0° Φ 7° Φ27'52 0° Ω 18° Ω03'41	1°18'11 1.44682 AU
asc. node evening max el retrograde evening set inferior conj minimum elong	15921 Jul 10 23:07 15921 Jul 18 23:58 15921 Jul 19 06:00 15921 Jul 22 16:42 15921 Jul 29 23:37 15921 Aug 02 17:44 15921 Aug 08 02:01 15921 Aug 08 03:22 15921 Aug 08 19:15	18° \$\Omega 57'43 0° m 0° m 18'35 4° m 09'54 8° m 14'35 6° m 52'58 0° m 57'30 0° m 53'01 30°R\$\Omega\$	19°37'52 2°57'40 2°57'02	minimum elong max. Earth dist. evening rise evening max el asc. node	15922 May 14 08:43 15922 May 22 09:33 15922 May 22 02:16 15922 May 28 11:53 15922 Jun 01 17:27 15922 Jun 06 13:08 15922 Jun 06 13:08 15922 Jun 05 17:52 15922 Jul 06 02:50	13° Π27'54 12° Π57'59 23° Π19'24 0° Φ 7° Φ27'52 0° Ω 18° Ω03'41 18° Ω25'44	1°18'11 1.44682 AU
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	15921 Jul 10 23:07 15921 Jul 18 23:58 15921 Jul 19 06:00 15921 Jul 22 16:42 15921 Jul 29 23:37 15921 Aug 02 17:44 15921 Aug 08 02:01 15921 Aug 08 03:22 15921 Aug 08 19:15 15921 Aug 09 06:26	18° \$\Omega 57'43 0° m 0° m 18'35 4° m 09'54 8° m 14'35 6° m 52'58 0° m 57'30 0° m 53'01 30° R\$\Omega 29° \$\Omega 22'55	19°37'52 2°57'40	minimum elong max. Earth dist. evening rise evening max el asc. node retrograde	15922 May 14 08:43 15922 May 22 09:33 15922 May 22 02:16 15922 May 28 11:53 15922 Jun 01 17:27 15922 Jun 06 13:08 15922 Jun 05 17:52 15922 Jul 06 02:50 15922 Jul 13 22:35	13° Π27'54 12° Π57'59 23° Π19'24 0° Φ 7° Φ27'52 0° Ω 18° Ω03'41 18° Ω25'44 22° Ω45'46	1°18'11 1.44682 AU
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	15921 Jul 10 23:07 15921 Jul 18 23:58 15921 Jul 19 06:00 15921 Jul 22 16:42 15921 Jul 29 23:37 15921 Aug 02 17:44 15921 Aug 08 02:01 15921 Aug 08 03:22 15921 Aug 08 19:15 15921 Aug 09 06:26 15921 Aug 13 12:29	18° \$\Omega 57'43 0° mp 0° mp 18'35 4° mp 09'54 8° mp 14'35 6° mp 52'58 0° mp 57'30 0° mp 53'01 30° r \Omega 29° \Omega 22'55 24° \Omega 31'25	19°37'52 2°57'40 2°57'02	minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set	15922 May 14 08:43 15922 May 22 09:33 15922 May 22 02:16 15922 May 28 11:53 15922 Jun 01 17:27 15922 Jun 06 13:08 15922 Jun 05 17:52 15922 Jul 05 02:50 15922 Jul 06 02:50 15922 Jul 13 22:35 15922 Jul 18 03:24	13° Π27'54 12° Π57'59 23° Π19'24 0° Φ 7° Φ27'52 0° Ω 18° Ω03'41 18° Ω25'44 22° Ω45'46 21° Ω06'16	1°18'11 1.44682 AU 20°40'57
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	15921 Jul 10 23:07 15921 Jul 18 23:58 15921 Jul 19 06:00 15921 Jul 22 16:42 15921 Jul 29 23:37 15921 Aug 02 17:44 15921 Aug 08 02:01 15921 Aug 08 03:22 15921 Aug 09 06:26 15921 Aug 13 12:29 15921 Aug 19 08:15	18° \$\Omega 57'43 0° \$\text{m}\$ 0° \$\text{m}\$ 0° \$\text{m}\$ 18'35 4° \$\text{m}\$ 09'54 8° \$\text{m}\$ 14'35 6° \$\text{m}\$ 52'58 0° \$\text{m}\$ 57'30 0° \$\text{m}\$ 53'01 30° \$\text{R}\$\tau\$ 29° \$\Omega 22'55 24° \$\Omega 31'25 21° \$\Omega 59'33	19°37'52 2°57'40 2°57'02	minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj	15922 May 14 08:43 15922 May 22 09:33 15922 May 22 02:16 15922 May 28 11:53 15922 Jun 01 17:27 15922 Jun 06 13:08 15922 Jun 05 17:52 15922 Jul 05 02:50 15922 Jul 13 22:35 15922 Jul 18 03:24 15922 Jul 23 09:10	13° Π27'54 12° Π57'59 23° Π19'24 0° Φ 7° Φ27'52 0° Ω 18° Ω03'41 18° Ω25'44 22° Ω45'46 21° Ω06'16 14° Ω59'15	1°18'11 1.44682 AU 20°40'57 3°07'54
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	15921 Jul 10 23:07 15921 Jul 18 23:58 15921 Jul 19 06:00 15921 Jul 22 16:42 15921 Jul 29 23:37 15921 Aug 02 17:44 15921 Aug 08 02:01 15921 Aug 08 03:22 15921 Aug 08 03:22 15921 Aug 09 06:26 15921 Aug 13 12:29 15921 Aug 19 08:15 15921 Aug 20 21:04	18° \$\Omega 57'43 0° \$\text{m}\$ 0° \$\text{m}\$ 0° \$\text{m}\$ 18'35 4° \$\text{m}\$ 09'54 8° \$\text{m}\$ 14'35 6° \$\text{m}\$ 52'58 0° \$\text{m}\$ 57'30 0° \$\text{m}\$ 53'01 30° \$\text{R}\$ 29° \$\Omega 22'55 24° \$\Omega 31'25 21° \$\Omega 59'33 22° \$\Omega 08'48	19°37'52 2°57'40 2°57'02 0.67681 AU	minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong	15922 May 14 08:43 15922 May 22 09:33 15922 May 22 02:16 15922 May 28 11:53 15922 Jun 01 17:27 15922 Jun 06 13:08 15922 Jun 21 16:02 15922 Jul 06 02:50 15922 Jul 13 22:35 15922 Jul 18 03:24 15922 Jul 23 09:10 15922 Jul 23 09:35	13° Π27'54 12° Π57'59 23° Π19'24 0° Φ 7° Φ27'52 0° Ω 18° Ω03'41 18° Ω25'44 22° Ω45'46 21° Ω06'16 14° Ω59'15 14° Ω57'50	1°18'11 1.44682 AU 20°40'57 3°07'54 3°07'16
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asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	15921 Jul 10 23:07 15921 Jul 18 23:58 15921 Jul 19 06:00 15921 Jul 22 16:42 15921 Jul 29 23:37 15921 Aug 02 17:44 15921 Aug 08 03:22 15921 Aug 08 03:22 15921 Aug 09 06:26 15921 Aug 13 12:29 15921 Aug 19 08:15 15921 Aug 20 21:04 15921 Aug 31 09:19 15921 Sep 01 03:55 15921 Sep 23 11:20 15921 Oct 06 05:42 15921 Oct 09 18:27	18° \$\Omega 5.7'43 0° \$\text{m}\$ 0° \$\text{m}\$ 0° \$\text{m}\$ 18'35 4° \$\text{m}\$ 09'54 8° \$\text{m}\$ 14'35 6° \$\text{m}\$ 52'58 0° \$\text{m}\$ 57'30 0° \$\text{m}\$ 53'01 30° \$\text{R}\$\Omega\$ 29° \$\Omega 22'55 24° \$\Omega 31'25\$ 21° \$\Omega 59'33 22° \$\Omega 08'48 29° \$\Omega 12'09 0° \$\text{m}\$ 0° \$\text{m}\$ 21° \$\Omega 19'06 27° \$\Omega 45'03	19°37'52 2°57'40 2°57'02 0.67681 AU	minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	15922 May 14 08:43 15922 May 22 09:33 15922 May 22 02:16 15922 May 28 11:53 15922 Jun 01 17:27 15922 Jun 06 13:08 15922 Jul 05 17:52 15922 Jul 06 02:50 15922 Jul 13 22:35 15922 Jul 23 09:10 15922 Jul 23 09:35 15922 Jul 28 15:28 15922 Aug 02 23:35 15922 Aug 07 18:25 15922 Aug 13 20:08	13° II 27'54 12° II 57'59 23° II 19'24 0° II 57'52 0° II 6' II 8' II 6' II 7' II 12' II 6' II 12' II 6' II 12' II 6' II 12' II 6' II 11' II 6' II 11' II 6' II 11' II 6' II 6' II 11' II 11' II 6' II 11' II 6' II 11' II 11' II 6' II 11' II	1°18'11 1.44682 AU 20°40'57 3°07'54 3°07'16 0.68627 AU
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asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end	15921 Jul 10 23:07 15921 Jul 18 23:58 15921 Jul 19 06:00 15921 Jul 22 16:42 15921 Jul 29 23:37 15921 Aug 02 17:44 15921 Aug 08 02:01 15921 Aug 08 03:22 15921 Aug 08 19:15 15921 Aug 09 06:26 15921 Aug 13 12:29 15921 Aug 19 08:15 15921 Aug 20 21:04 15921 Aug 31 09:19 15921 Aug 31 09:19 15921 Sep 01 03:55 15921 Sep 23 11:20 15921 Oct 06 05:42 15921 Oct 07:28 15921 Oct 16 07:19 15921 Oct 16 07:19 15921 Oct 16 07:19 15921 Oct 16 07:28 15921 Oct 16 01:28 15921 Oct 16 12:01 15921 Oct 16 12:01 15921 Oct 16 12:01	18° \$\Omega 5.7'43 0° \$\mathref{m}\$ 0° \$\mathref{m}\$ 18'35 4° \$\mathref{m}\$ 09'54 8° \$\mathref{m}\$ 14'35 6° \$\mathref{m}\$ 52'58 0° \$\mathref{m}\$ 53'01 30° \$\mathref{n}\$ \alpha 29° \$\Omega 22'55 24° \$\Omega 31'25 21° \$\Omega 59'33 22° \$\Omega 08'48 29° \$\Omega 12'09 0° \$\mathref{m}\$ 0° \$\Omega 12'09 10°	19°37'52 2°57'40 2°57'02 0.67681 AU 25°11'47 1.36577 AU 0°09'00	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	15922 May 14 08:43 15922 May 22 09:33 15922 May 22 02:16 15922 May 28 11:53 15922 Jun 01 17:27 15922 Jun 06 13:08 15922 Jun 05 17:52 15922 Jul 06 02:50 15922 Jul 13 22:35 15922 Jul 13 22:35 15922 Jul 23 09:10 15922 Jul 23 09:35 15922 Jul 23 23:50 15922 Jul 23 23:50 15922 Jul 28 15:28 15922 Aug 02 23:35 15922 Aug 07 18:25 15922 Aug 13 20:08 15922 Aug 27 17:36 15922 Sep 16 07:05 15922 Sep 21 17:07 15922 Sep 29 07:38 15922 Sep 29 07:38 15922 Sep 29 09:27 15922 Oct 02 04:07	13° II 27'54 12° II 57'59 23° II 19'24 0° © 7° © 27'52 0° Ω 18° Ω03'41 18° Ω25'44 22° Ω45'46 21° Ω06'16 14° Ω59'15 14° Ω57'50 14° Ω08'39 8° Ω37'10 6° Ω17'32 7° Ω47'31 12° Ω46'11 0° ID 0° Ω 2° Ω37'43 9° Ω16'17 23° Ω05'29 23° Ω14'01 28° Ω30'54	1°18'11 1.44682 AU 20°40'57 3°07'54 3°07'16 0.68627 AU 23°44'09 1.38959 AU -0°25'16
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 evening rise evening max el	15921 Jul 10 23:07 15921 Jul 18 23:58 15921 Jul 19 06:00 15921 Jul 22 16:42 15921 Jul 29 23:37 15921 Aug 02 17:44 15921 Aug 08 02:01 15921 Aug 08 03:22 15921 Aug 08 19:15 15921 Aug 09 06:26 15921 Aug 13 12:29 15921 Aug 19 08:15 15921 Aug 20 21:04 15921 Aug 31 09:19 15921 Sep 01 03:55 15921 Sep 23 11:20 15921 Oct 06 05:42 15921 Oct 07:28 15921 Oct 16 07:19 15921 Oct 16 07:19 15921 Oct 16 06:44 15921 Oct 16 06:44 15921 Oct 16 06:44 15921 Oct 16 01:28 15921 Oct 24 09:38 15921 Oct 26 00:52 15921 Oct 26 00:52 15921 Nov 10 18:50	18° \$\Omega 5.57'43 0° \$\mathref{m}\$ 0° \$\mathref{m}\$ 18'35 4° \$\mathref{m}\$ 09'54 8° \$\mathref{m}\$ 14'35 6° \$\mathref{m}\$ 52'58 0° \$\mathref{m}\$ 53'01 30° \$\mathref{n}\$ \alpha 29° \$\Omega 22'55 24° \$\Omega 31'25 21° \$\Omega 59'33 22° \$\Omega 08'48 29° \$\Omega 12'09 0° \$\mathref{m}\$ 0° \$\mathref{m}\$ 21° \$\omega 19'06 27° \$\omega 45'03 0° \$\mathref{m}\$ 8° \$\mathref{m}\$ 20'33 10° \$\mathref{m}\$ 18'11 10° \$\mathref{m}\$ 15'19 9° \$\mathref{m}\$ 49'13 10° \$\mathref{m}\$ 41'28 26° \$\mathref{m}\$ 41'30 0° \$\nallq\$ 25° \$\nallq 22'25	19°37'52 2°57'40 2°57'02 0.67681 AU 25°11'47 1.36577 AU 0°09'00 0°09'21	minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	15922 May 14 08:43 15922 May 22 09:33 15922 May 22 02:16 15922 May 28 11:53 15922 Jun 01 17:27 15922 Jun 06 13:08 15922 Jun 05 17:52 15922 Jul 06 02:50 15922 Jul 13 22:35 15922 Jul 18 03:24 15922 Jul 23 09:10 15922 Jul 23 09:10 15922 Jul 23 23:50 15922 Jul 23 23:50 15922 Jul 23 23:50 15922 Jul 28 15:28 15922 Aug 02 23:35 15922 Aug 07 18:25 15922 Aug 13 20:08 15922 Aug 27 17:36 15922 Sep 16 07:05 15922 Sep 17 20:36 15922 Sep 29 07:38 15922 Sep 29 07:38 15922 Sep 29 07:38 15922 Cot 02 04:07 15922 Cot 02 22:38 15922 Oct 02 22:38 15922 Oct 08 09:06	13° II 27'54 12° II 57'59 23° II 19'24 0° © 7° © 27'52 0° Ω 18° Ω03'41 18° Ω25'44 22° Ω45'46 21° Ω06'16 14° Ω59'15 14° Ω59'15 14° Ω08'39 8° Ω37'10 6° Ω17'32 7° Ω47'31 12° Ω46'11 0° III 0° III 0° III 2° Ω9 Ω16'17 23° Ω9 Ω5'29 23° Ω14'01 28° Ω30'54 0° III.	1°18'11 1.44682 AU 20°40'57 3°07'54 3°07'16 0.68627 AU 23°44'09 1.38959 AU -0°25'16
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 evening rise	15921 Jul 10 23:07 15921 Jul 18 23:58 15921 Jul 19 06:00 15921 Jul 22 16:42 15921 Jul 29 23:37 15921 Aug 02 17:44 15921 Aug 08 02:01 15921 Aug 08 03:22 15921 Aug 08 19:15 15921 Aug 09 06:26 15921 Aug 13 12:29 15921 Aug 13 12:29 15921 Aug 19 08:15 15921 Aug 20 21:04 15921 Aug 31 09:19 15921 Sep 01 03:55 15921 Sep 23 11:20 15921 Oct 06 05:42 15921 Oct 06 05:42 15921 Oct 10 23:20 15921 Oct 16 07:28 15921 Oct 16 07:19 15921 Oct 16 06:44 15921 Oct 16 01:28 15921 Oct 16 01:28 15921 Oct 16 01:28 15921 Oct 26 00:52 15921 Nov 10 18:50 15921 Nov 10 18:50	18° \$\Omega 5.7'43 0° \$\mathref{m}\$ 0° \$\mathref{m}\$ 18'35 4° \$\mathref{m}\$ 09'54 8° \$\mathref{m}\$ 14'35 6° \$\mathref{m}\$ 52'58 0° \$\mathref{m}\$ 53'01 30° \$\mathref{A}\$ 29° \$\Omega 22'55 24° \$\Omega 31'25\$ 21° \$\Omega 59'33 22° \$\Omega 08'48 29° \$\Omega 12'09 0° \$\mathref{m}\$ 0° \$\mathref{m}\$ 21° \$\Omega 19'06 27° \$\Omega 45'03 0° \$\mathref{m}\$ 8° \$\mathref{m}\$ 20'33 10° \$\mathref{m}\$ 18'11 10° \$\mathref{m}\$ 15'19 9° \$\mathref{m}\$ 49'13 10° \$\mathref{m}\$ 41'28 26° \$\mathref{m}\$ 41'30 0° \$\nall \$\frac{\pi}{2}\$ 25° \$\nall \$\frac{\pi}{2}\$ 22'25 29° \$\nall \$\frac{\pi}{3}\$ 35'03	19°37'52 2°57'40 2°57'02 0.67681 AU 25°11'47 1.36577 AU 0°09'00 0°09'21	minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise	15922 May 14 08:43 15922 May 22 09:33 15922 May 22 02:16 15922 May 28 11:53 15922 Jun 01 17:27 15922 Jun 06 13:08 15922 Jun 05 17:52 15922 Jul 06 02:50 15922 Jul 13 22:35 15922 Jul 18 03:24 15922 Jul 23 09:10 15922 Jul 23 09:35 15922 Sep 17 20:36 15922 Sep 17 20:36 15922 Sep 29 07:38 15922 Sep 29 07:38 15922 Sep 29 09:27 15922 Sep 29 09:27 15922 Oct 02 04:07 15922 Oct 02 02:38 15922 Oct 08 09:06 15922 Oct 19 02:06	13° II 27'54 12° II 57'59 23° II 19'24 0° © 7° © 27'52 0° Ω 18° Ω03'41 18° Ω25'44 22° Ω45'46 21° Ω06'16 14° Ω59'15 14° Ω57'50 14° Ω08'39 8° Ω37'10 6° Ω17'32 7° Ω47'31 12° Ω46'11 0° ID 0° Ω 2° Ω 37'43 9° Ω 16'17 23° Ω 05'29 23° Ω 14'01 28° Ω 30'54 0° IL 10° IL 35'44 0° IL	1°18'11 1.44682 AU 20°40'57 3°07'54 3°07'16 0.68627 AU 23°44'09 1.38959 AU -0°25'16 0°24'43
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 evening rise evening max el desc. node	15921 Jul 10 23:07 15921 Jul 18 23:58 15921 Jul 19 06:00 15921 Jul 22 16:42 15921 Jul 29 23:37 15921 Aug 02 17:44 15921 Aug 08 02:01 15921 Aug 08 03:22 15921 Aug 08 19:15 15921 Aug 09 06:26 15921 Aug 13 12:29 15921 Aug 19 08:15 15921 Aug 20 21:04 15921 Aug 31 09:19 15921 Sep 01 03:55 15921 Sep 23 11:20 15921 Oct 06 05:42 15921 Oct 10 23:20 15921 Oct 10 23:20 15921 Oct 16 07:19 15921 Oct 16 07:19 15921 Oct 16 06:44 15921 Oct 16 01:28 15921 Oct 16 01:28 15921 Oct 24 09:38 15921 Oct 26 00:52 15921 Nov 10 18:50 15921 Nov 16 18:09 15921 Nov 16 18:09	18° \$\Omega 5.7'43 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 18'35 4° \$\mathbf{m}\$ 09'54 8° \$\mathbf{m}\$ 14'35 6° \$\mathbf{m}\$ 52'58 0° \$\mathbf{m}\$ 53'01 30° \$\mathbf{A}\$ 29° \$\Omega 22'55 24° \$\Omega 31'25 21° \$\Omega 59'33 22° \$\Omega 08'48 29° \$\Omega 12'09 0° \$\mathbf{m}\$ 0° \$\Omega 19'06 27° \$\Omega 45'03 0° \$\mathbf{m}\$ 8° \$\mathbf{m}\$ 20'33 10° \$\mathbf{m}\$ 18'11 10° \$\mathbf{m}\$ 15'19 9° \$\mathbf{m}\$ 49'13 10° \$\mathbf{m}\$ 41'28 26° \$\mathbf{m}\$ 41'30 0° \$\mathbf{m}\$ 25° \$\mathbf{m}\$ 22'25 29° \$\mathbf{m}\$ 35'03 0° \$\mathbf{G}\$	19°37'52 2°57'40 2°57'02 0.67681 AU 25°11'47 1.36577 AU 0°09'00 0°09'21	minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise evening rise	15922 May 14 08:43 15922 May 22 09:33 15922 May 22 02:16 15922 May 28 11:53 15922 Jun 01 17:27 15922 Jun 06 13:08 15922 Jun 05 17:52 15922 Jul 06 02:50 15922 Jul 13 22:35 15922 Jul 18 03:24 15922 Jul 23 09:10 15922 Jul 23 09:35 15922 Sep 10 09:27 15922 Sep 17 00:36 15922 Sep 29 07:38 15922 Sep 29 07:38 15922 Sep 29 09:27 15922 Sep 29 09:27 15922 Oct 02 04:07 15922 Oct 08 09:06 15922 Oct 19 02:06 15922 Oct 24 14:36	13° II 27'54 12° II 57'59 23° II 19'24 0° © 7° © 27'52 0° Ω 18° Ω03'41 18° Ω25'44 22° Ω45'46 21° Ω06'16 14° Ω59'15 14° Ω57'50 14° Ω08'39 8° Ω37'10 6° Ω17'32 7° Ω47'31 12° Ω46'11 0° ID 0° Ω 2° Ω 37'43 9° Ω 16'17 23° Ω 05'29 23° Ω 14'01 28° Ω 30'54 0° IL 10° IL 35'44	1°18'11 1.44682 AU 20°40'57 3°07'54 3°07'16 0.68627 AU 23°44'09 1.38959 AU -0°25'16
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 evening rise evening max el desc. node retrograde	15921 Jul 10 23:07 15921 Jul 18 23:58 15921 Jul 19 06:00 15921 Jul 22 16:42 15921 Jul 29 23:37 15921 Aug 02 17:44 15921 Aug 08 02:01 15921 Aug 08 03:22 15921 Aug 08 19:15 15921 Aug 09 06:26 15921 Aug 13 12:29 15921 Aug 19 08:15 15921 Aug 20 21:04 15921 Aug 31 09:19 15921 Sep 01 03:55 15921 Sep 01 03:55 15921 Sep 23 11:20 15921 Oct 06 05:42 15921 Oct 10 23:20 15921 Oct 10 23:20 15921 Oct 16 07:19 15921 Oct 16 07:19 15921 Oct 16 06:44 15921 Oct 16 01:28 15921 Oct 16 01:28 15921 Oct 24 09:38 15921 Oct 26 00:52 15921 Nov 10 18:50 15921 Nov 16 18:09 15921 Nov 16 18:09 15921 Nov 17 23:10 15921 Nov 20 20:54	18° \$\Omega 5.7'43 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 18'35 4° \$\mathbf{m}\$ 09'54 8° \$\mathbf{m}\$ 14'35 6° \$\mathbf{m}\$ 52'58 0° \$\mathbf{m}\$ 53'01 30° \$\mathbf{A}\$ 29° \$\Omega 22'55 24° \$\Omega 31'25 21° \$\Omega 59'33 22° \$\Omega 08'48 29° \$\Omega 12'09 0° \$\mathbf{m}\$ 0° \$\Omega 19'06 27° \$\Omega 45'03 0° \$\mathbf{m}\$ 8° \$\mathbf{m}\$ 20'33 10° \$\mathbf{m}\$ 18'11 10° \$\mathbf{m}\$ 15'19 9° \$\mathbf{m}\$ 49'13 10° \$\mathbf{m}\$ 41'28 26° \$\mathbf{m}\$ 441'30 0° \$\star*\$ 25° \$\star*\$ 22'25 29° \$\star*\$ 35'03 0° \$\Star*\$ 0° \$\Star*\$ 24'26	19°37'52 2°57'40 2°57'02 0.67681 AU 25°11'47 1.36577 AU 0°09'00 0°09'21	minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise evening rise evening rise	15922 May 14 08:43 15922 May 22 09:33 15922 May 22 02:16 15922 May 28 11:53 15922 Jun 01 17:27 15922 Jun 06 13:08 15922 Jun 05 17:52 15922 Jul 06 02:50 15922 Jul 13 22:35 15922 Jul 18 03:24 15922 Jul 23 09:10 15922 Jul 23 09:10 15922 Jul 23 09:35 15922 Sul 07 18:25 15922 Aug 07 18:25 15922 Aug 13 20:08 15922 Aug 27 17:36 15922 Sep 16 07:05 15922 Sep 17 20:36 15922 Sep 29 07:38 15922 Sep 29 07:38 15922 Sep 29 09:27 15922 Oct 02 04:07 15922 Oct 02 04:07 15922 Oct 02 02:38 15922 Oct 08 09:06 15922 Oct 19 02:06 15922 Oct 24 14:36 15922 Nov 02 03:54	13° II 27'54 12° II 57'59 23° II 19'24 0° II 57'59 23° II 19'24 0° II 60 II 6	1°18'11 1.44682 AU 20°40'57 3°07'54 3°07'16 0.68627 AU 23°44'09 1.38959 AU -0°25'16 0°24'43
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 evening rise evening max el desc. node	15921 Jul 10 23:07 15921 Jul 18 23:58 15921 Jul 19 06:00 15921 Jul 22 16:42 15921 Jul 29 23:37 15921 Aug 02 17:44 15921 Aug 08 02:01 15921 Aug 08 03:22 15921 Aug 08 19:15 15921 Aug 09 06:26 15921 Aug 13 12:29 15921 Aug 19 08:15 15921 Aug 20 21:04 15921 Aug 31 09:19 15921 Sep 01 03:55 15921 Sep 23 11:20 15921 Oct 06 05:42 15921 Oct 10 23:20 15921 Oct 10 23:20 15921 Oct 16 07:19 15921 Oct 16 07:19 15921 Oct 16 06:44 15921 Oct 16 01:28 15921 Oct 16 01:28 15921 Oct 24 09:38 15921 Oct 26 00:52 15921 Nov 10 18:50 15921 Nov 16 18:09 15921 Nov 16 18:09	18° \$\Omega 5.7'43 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 18'35 4° \$\mathbf{m}\$ 09'54 8° \$\mathbf{m}\$ 14'35 6° \$\mathbf{m}\$ 52'58 0° \$\mathbf{m}\$ 53'01 30° \$\mathbf{A}\$ 29° \$\Omega 22'55 24° \$\Omega 31'25 21° \$\Omega 59'33 22° \$\Omega 08'48 29° \$\Omega 12'09 0° \$\mathbf{m}\$ 0° \$\Omega 19'06 27° \$\Omega 45'03 0° \$\mathbf{m}\$ 8° \$\mathbf{m}\$ 20'33 10° \$\mathbf{m}\$ 18'11 10° \$\mathbf{m}\$ 15'19 9° \$\mathbf{m}\$ 49'13 10° \$\mathbf{m}\$ 41'28 26° \$\mathbf{m}\$ 41'30 0° \$\mathbf{m}\$ 25° \$\mathbf{m}\$ 22'25 29° \$\mathbf{m}\$ 35'03 0° \$\mathbf{G}\$	19°37'52 2°57'40 2°57'02 0.67681 AU 25°11'47 1.36577 AU 0°09'00 0°09'21	minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise evening rise	15922 May 14 08:43 15922 May 22 09:33 15922 May 22 02:16 15922 May 28 11:53 15922 Jun 01 17:27 15922 Jun 06 13:08 15922 Jun 05 17:52 15922 Jul 06 02:50 15922 Jul 13 22:35 15922 Jul 18 03:24 15922 Jul 23 09:10 15922 Jul 23 09:35 15922 Sep 10 09:27 15922 Sep 17 00:36 15922 Sep 29 07:38 15922 Sep 29 07:38 15922 Sep 29 09:27 15922 Sep 29 09:27 15922 Oct 02 04:07 15922 Oct 08 09:06 15922 Oct 19 02:06 15922 Oct 24 14:36	13° II 27'54 12° II 57'59 23° II 19'24 0° © 7° © 27'52 0° Ω 18° Ω03'41 18° Ω25'44 22° Ω45'46 21° Ω06'16 14° Ω59'15 14° Ω57'50 14° Ω08'39 8° Ω37'10 6° Ω17'32 7° Ω47'31 12° Ω46'11 0° ID 0° Ω 2° Ω 37'43 9° Ω 16'17 23° Ω 05'29 23° Ω 14'01 28° Ω 30'54 0° IL 10° IL 35'44	1°18'11 1.44682 AU 20°40'57 3°07'54 3°07'16 0.68627 AU 23°44'09 1.38959 AU -0°25'16 0°24'43

inferior conj	15922 Nov 12 06:44	6° ∡ 751'54	2045113	minimum elong	15923 Oct 24 17:56	18°M24'34	1902'26
minimum elong	15922 Nov 11 23:58	7°×7'04'01	2°41'55	min. Earth dist.	15923 Oct 24 17:30 15923 Oct 28 02:28	15°M36'41	0.58743 AU
min. Earth dist.	15922 Nov 15 06:30	4° × ⁷ 43'50	0.56690 AU	morning rise	15923 Nov 01 00:09	12°M54'14	0.56745 AC
morning rise	15922 Nov 19 19:35	2°×703'04	0.50070710	direct	15923 Nov 07 10:12	11°ML04'08	
direct	15922 Nov 25 17:24	0° ₹ 39'34		morning max el	15923 Nov 21 17:14	18°M43'36	27°28'52
morning max el	15922 Dec 09 21:29		26°21'13	morning man vi	15923 Dec 01 05:51	0° ∡ 7	2, 2002
morning man vi	15922 Dec 26 07:24	0°る	20 21 15	asc. node	15923 Dec 16 01:25	24° x 18'30	
asc. node	15922 Dec 29 04:21	5° る 02'25		ase. Hour	15923 Dec 18 23:16	0°ਰ	
morning set	15923 Jan 07 14:09	23° る 48'07		morning set	15923 Dec 22 21:56	8° ろ 09'53	
5 - 5	15923 Jan 10 10:13	0° ≈		<i>5 5 1 1</i>			
				superior conj	15923 Dec 29 19:30	23° る 20'50	1°35'53
superior conj	15923 Jan 14 08:03	8° ≈ 42'35	1°38'03	minimum elong	15923 Dec 29 18:37	23° る 15'49	1°36'35
minimum elong	15923 Jan 14 08:11	8° ≈ 43'23	1°38'42	max. Earth dist.	15923 Dec 29 12:57	22° る 44'08	1.31005 AU
max. Earth dist.	15923 Jan 15 05:09	10° ≈ 40′14	1.31314 AU		15924 Jan 01 18:54	0°≈	
evening rise	15923 Jan 21 07:36	23° ≈ 57'09		evening rise	15924 Jan 05 13:29	8° ≈ 16′00	
	15923 Jan 24 06:01	0°) €		-	15924 Jan 16 16:16	0°)	
desc. node	15923 Jan 30 14:53	12°) €08'12		desc. node	15924 Jan 17 11:37	1°) 23′33	
	15923 Feb 10 18:28	$0^{\circ}\Upsilon$		evening max el	15924 Feb 04 02:11	25°) €05'32	26°39'16
evening max el	15923 Feb 22 00:51	13° Y ′26'43	27°25'00		15924 Feb 10 11:07	0° Y	
retrograde	15923 Mar 08 00:53	20° Y ′48′45		retrograde	15924 Feb 18 02:19	2° Y 16'59	
evening set	15923 Mar 14 19:23	18° Y 43'33		evening set	15924 Feb 24 12:54	0° Y 34'35	
min. Earth dist.	15923 Mar 18 14:52	15° Ƴ 54'37	0.60954 AU		15924 Feb 25 13:58	30° ₹ ₩	
inferior conj	15923 Mar 21 18:52	13° Y ′07'42		min. Earth dist.	15924 Feb 28 15:50	27° ¥ 56'36	0.58713 AU
minimum elong	15923 Mar 21 22:35	12° Y 59'30	1°40'37	inferior conj	15924 Mar 02 20:19	25°) 30′46	-3°11'02
asc. node	15923 Mar 27 01:41	9° Y 07'46		minimum elong	15924 Mar 03 03:36	25°) 16′51	3°08'14
morning rise	15923 Mar 29 05:07	8° Y 13'15		morning rise	15924 Mar 10 21:45	20° ⊁ 57'32	
direct	15923 Mar 31 07:59	7° Y ′54'24		direct	15924 Mar 12 21:01	20°) 43′50	
morning max el	15923 Apr 07 08:25	11° Y ′25'34	17°53'31	asc. node	15924 Mar 12 23:03	20°) 43′52	
	15923 Apr 19 18:17	$0^{\circ}S$		morning max el	15924 Mar 20 19:46	24°) 39'41	18°20'14
morning set	15923 Apr 22 23:23	5° 8 47'18			15924 Mar 25 05:25	0° Y	
desc. node	15923 Apr 28 16:26	16° 8 04'36		morning set	15924 Apr 05 13:24	19° Ƴ 43'44	
					15924 Apr 10 23:38	0°8	
superior conj	15923 May 03 17:21	24° 8 54'54					
minimum elong	15923 May 03 13:45	24° 8 39'23	0°40'23	superior conj	15924 Apr 14 23:00	7° 8 20'47	
	15923 May 06 16:51	0°Щ		minimum elong	15924 Apr 14 22:43	7° 8 19'29	0°03'48
max. Earth dist.	15923 May 11 02:45	7° Ⅲ 20′17	1.43059 AU	behind sun begin	15924 Apr 14 15:33	6° 8 46'49	
evening rise	15923 May 17 09:14	17° Ⅲ 23'55		behind sun end	15924 Apr 15 05:53	7° 8 52'05	
	15923 May 25 14:16	0°99		desc. node	15924 Apr 14 13:08	6° 8 35'48	
	15923 Jun 16 16:34	0°N		max. Earth dist.	15924 Apr 22 12:31	_	1.40994 AU
evening max el	15923 Jun 18 13:19	1° Ω 57'23	21°55′10	evening rise	15924 Apr 27 00:30	28° 8 12'00	
asc. node	15923 Jun 22 23:45	5° Ω 40'47			15924 Apr 28 02:58	0°II	
retrograde	15923 Jun 27 20:50	7° Ω 23'31			15924 May 18 03:52	0.22 0.22	22015145
evening set	15923 Jul 02 12:52	5° Ω 27'03		evening max el	15924 May 31 04:37	15°950'52	23°15'4/
:£:	15923 Jul 07 04:16	30°₹© 29°©09'49	3°06'55	asc. node	15924 Jun 08 20:44	21°546'45 22°501'20	
inferior conj	15923 Jul 07 18:40			retrograde	15924 Jun 10 16:50		
minimum elong min. Earth dist.	15923 Jul 07 18:08 15923 Jul 07 20:01	29° © 11'43 29° © 05'09	3°06'10 0.69089 AU	evening set min. Earth dist.	15924 Jun 15 20:24 15924 Jun 20 16:52	19° © 50'01 14° © 05'06	0.69061 AU
	15923 Jul 07 20:01 15923 Jul 12 23:14	29 3 03 09 22° 5 54'05	0.09089 AU	inferior conj	15924 Jun 21 04:32	13°524'46	0.09001 AU 2°55'26
morning rise direct	15923 Jul 17 19:03	22 3 54 05 20° 5 51'13		minimum elong	15924 Jun 21 03:09	13°924'40	
desc. node	15923 Jul 25 15:42	24° © 50'57		morning rise	15924 Jun 26 09:52	7° © 16'49	2 34 20
morning max el	15923 Jul 27 08:58	26°\$28'58	22°15'35	direct	15924 Jun 30 17:25	5°933'06	
morning max cr	15923 Jul 30 14:47	0°Ω	22 1333	morning max el	15924 Jul 09 02:30	10° © 21'06	20°53'39
	15923 Aug 21 05:56	0° mp		desc. node	15924 Jul 11 12:56	12°957'10	20 33 37
morning set	15923 Aug 29 12:10	12° m 56'51		dese. Hode	15924 Jul 24 08:42	0°Ω	
max. Earth dist.	15923 Sep 03 18:45	21° m/36'22	1.41322 AU	morning set	15924 Aug 08 04:57	22° Ω 18'44	
max. Dartii dist.	15923 Sep 08 16:53	0° ⊽	1.11322 110	morning sec	15924 Aug 13 02:18	0° m)	
	10,23 Sep 00 10.03	v —		max. Earth dist.	15924 Aug 16 02:06	-	1.43389 AU
superior conj	15923 Sep 11 14:35	5° ഫ 06'09	-1°01'57			*	
minimum elong	15923 Sep 11 19:34	5° Ω 28'16		superior conj	15924 Aug 22 23:56	16° m 10'52	-1°36'51
asc. node	15923 Sep 19 00:46	18° Ω 37'16		minimum elong	15924 Aug 23 07:30	16° mp 42'41	
evening rise	15923 Sep 21 22:57	24° ♀ 04'14			15924 Aug 31 00:45	0∘ ⊽	
Č	15923 Sep 25 03:37	0°M		evening rise	15924 Sep 03 22:48	6° Ω 55'26	
evening max el	15923 Oct 07 20:51	19° M 31'54	18°16'18	asc. node	15924 Sep 04 21:25	8° ≏ 35'40	
retrograde	15923 Oct 15 06:27	23°M18'23			15924 Sep 18 02:50	0° M	
evening set	15923 Oct 17 08:15	23°M01'12		evening max el	15924 Sep 20 09:21	2°M33'10	18°02'02
desc. node	15923 Oct 21 12:37	20°M55'32		retrograde	15924 Sep 27 01:40	6°M00'01	
inferior conj	15923 Oct 24 20:18	18° ™ 19'35	-1°03'57	evening set	15924 Sep 29 10:49	5°M33'36	
micror conj							

inforior aoni	15024 Oct. 06 05:57	0°MJ32'08	0°21'47	ratragrada	15025 San 10 00:09	19° ₽ 19'21	
inferior conj minimum elong	15924 Oct 06 05:57 15924 Oct 06 06:38	0°M30'29	0°21'51	retrograde	15925 Sep 10 09:08	19 2 1921 18° 2 40'11	
minimum elong	15924 Oct 06 06.38	0 11630 29 30°R Ω	0 21 31	evening set inferior conj	15925 Sep 13 02:50 15925 Sep 19 07:48	18 ≗ 40 11 13° £ 21'05	1°27'50
desc. node	15924 Oct 06 19.11 15924 Oct 07 09:56	30 K== 29° Ω 24'02		minimum elong	15925 Sep 19 07.48 15925 Sep 19 09:54	13° 2 103	1°27'14
min. Earth dist.	15924 Oct 07 09:30 15924 Oct 09 08:04	29 = 24 02 27° ⊆ 33'58	0.61020 AU	min. Earth dist.	15925 Sep 19 09:34 15925 Sep 21 23:34	13 = 13 21 10° ⊆ 28'00	0.63268 AU
morning rise	15924 Oct 09 08.04 15924 Oct 12 23:28	21° 2 33 38 24° 2 37'44	0.01020 AU	desc. node	15925 Sep 24 07:20	8° £ 12'14	0.03208 AU
direct	15924 Oct 12 25:28 15924 Oct 19 15:22	24 ⊆ 3744 22° ⊆ 24'08		morning rise	15925 Sep 25 14:52	o =12 14 7°Ω07'43	
direct	15924 Nov 02 13:10	0°M		direct	15925 Oct 02 06:36	4° £ 37'53	
morning max el	15924 Nov 02 13:10 15924 Nov 02 20:38	0°ML18'18	27°58'06	morning max el	15925 Oct 16 05:06	12° £ 37′33	27°48'40
morning max ci	15924 Nov 24 08:37	0° ⊼ ¹	27 38 00	morning max ci	15925 Oct 30 03:11	0°ML	27 48 40
asc. node	15924 Nov 24 08:37 15924 Dec 01 22:24	13° ∡ 57′02			15925 Nov 16 20:18	0° ⊼	
morning set	15924 Dec 06 00:48	22° x 14'46		asc. node	15925 Nov 18 19:19	3° ∡ 750'40	
morning set	15924 Dec 09 16:07	22 メ ・1440			15925 Nov 19 20:24	5° х 56′17	
max. Earth dist.	15924 Dec 11 19:10	0 る 4° る 39'56	1.31246 AU	morning set max. Earth dist.	15925 Nov 24 19:56	16° ∡ 18′20	1.32054 AU
max. Earth dist.	13924 DCC 11 19.10	4 03930	1.51240 AU	max. Earth dist.	13923 NOV 24 19.30	10 × 10 20	1.32034 AU
superior conj	15924 Dec 13 06:08	7° る 53'47	1°27'42	superior conj	15925 Nov 27 13:55	22° ∡ 15′03	1°13'26
minimum elong	15924 Dec 13 04:22	7°る44'00	1°28'19	minimum elong	15925 Nov 27 11:37	22° ҂ 02'35	1°13'54
evening rise	15924 Dec 19 22:45	22° ප් 42'03		Č	15925 Dec 01 02:39	6°0	
Č	15924 Dec 23 09:36	0° ≈		evening rise	15925 Dec 04 09:28	7° る 09'54	
desc. node	15925 Jan 03 08:26	20° ≈ 00'28		8 21	15925 Dec 16 03:35	0° ≈	
	15925 Jan 10 10:38	0°) €		desc. node	15925 Dec 21 05:21	7° ≈ 44'08	
evening max el	15925 Jan 15 19:11	5°) 52'04	25°21'20	evening max el	15925 Dec 28 05:42	15° ≈ 58'36	23°42'21
retrograde	15925 Jan 29 16:09	12°) 50′20		retrograde	15926 Jan 10 16:18	22° ≈ 38'07	
evening set	15925 Feb 04 09:56	11°) € 35'32		evening set	15926 Jan 15 08:09	21° ≈ 51'07	
min. Earth dist.	15925 Feb 09 07:47	8°) 53'36	0.56688 AU	min. Earth dist.	15926 Jan 21 16:58	18° ≈ 47'30	0.55174 AU
inferior conj	15925 Feb 12 01:18	7°) €05'05	-4°38'41	inferior conj	15926 Jan 23 09:37	17° ≈ 47'40	-5°43'53
minimum elong	15925 Feb 12 10:41	6°) 49'32		minimum elong	15926 Jan 23 16:00	17° ≈ 38'16	
morning rise	15925 Feb 20 14:12	2°) 53'12		morning rise	15926 Feb 01 01:24	13° ≈ 53'04	
direct	15925 Feb 22 15:36	2°)(40'47		direct	15926 Feb 03 14:57	13° ≈ 36'46	
asc. node	15925 Feb 27 20:25	4°) €05'36		morning max el	15926 Feb 14 10:52	18° ≈ 51'13	20°19'20
morning max el	15925 Mar 03 21:58		19°08'13	asc. node	15926 Feb 14 17:47	19° ≈ 08'09	
	15925 Mar 18 11:24	0° Υ			15926 Feb 22 22:12	0°) €	
morning set	15925 Mar 20 13:18	4° Υ 05'14		morning set	15926 Mar 04 19:38	18°) 41′23	
Č				C	15026 Mar. 10, 07-20	0° Y	
					15926 Mar 10 07:29	U I	
superior conj	15925 Mar 28 22:17	20° Ƴ 33'39	0°29'02		15926 Mar 10 07:29	0 1	
superior conj minimum elong	15925 Mar 28 22:17 15925 Mar 29 00:01	20° Y '33'39 20° Y '41'57	0°29'02 0°28'32	superior conj	15926 Mar 10 07:29 15926 Mar 12 10:52	4° Υ 21'01	0°55'31
				superior conj minimum elong			0°55'31 0°55'09
minimum elong	15925 Mar 29 00:01	20° Ƴ 41'57			15926 Mar 12 10:52	4° Υ 21'01	
minimum elong	15925 Mar 29 00:01 15925 Apr 01 09:49	20° Υ 41'57 27° Υ 08'27 0° ႘		minimum elong	15926 Mar 12 10:52 15926 Mar 12 13:22	4° Υ 21'01 4° Υ 33'41	0°55'09
minimum elong desc. node	15925 Mar 29 00:01 15925 Apr 01 09:49 15925 Apr 02 23:02	20° Υ 41'57 27° Υ 08'27 0° ႘	0°28'32	minimum elong max. Earth dist.	15926 Mar 12 10:52 15926 Mar 12 13:22 15926 Mar 18 01:44	4° Υ 21'01 4° Υ 33'41 15° Υ 22'41	0°55'09
minimum elong desc. node max. Earth dist.	15925 Mar 29 00:01 15925 Apr 01 09:49 15925 Apr 02 23:02 15925 Apr 04 18:40	20°Y41'57 27°Y08'27 0°8 3°817'42	0°28'32	minimum elong max. Earth dist. desc. node	15926 Mar 12 10:52 15926 Mar 12 13:22 15926 Mar 18 01:44 15926 Mar 19 06:28	4°Υ21'01 4°Υ33'41 15°Υ22'41 17°Υ38'28	0°55'09
minimum elong desc. node max. Earth dist.	15925 Mar 29 00:01 15925 Apr 01 09:49 15925 Apr 02 23:02 15925 Apr 04 18:40 15925 Apr 08 13:04	20°Y41'57 27°Y08'27 0°8 3°817'42 9°855'17	0°28'32	minimum elong max. Earth dist. desc. node	15926 Mar 12 10:52 15926 Mar 12 13:22 15926 Mar 18 01:44 15926 Mar 19 06:28 15926 Mar 21 20:41	4°Y21'01 4°Y33'41 15°Y22'41 17°Y38'28 22°Y25'50	0°55'09
minimum elong desc. node max. Earth dist. evening rise	15925 Mar 29 00:01 15925 Apr 01 09:49 15925 Apr 02 23:02 15925 Apr 04 18:40 15925 Apr 08 13:04 15925 Apr 20 22:49	20°Y41'57 27°Y08'27 0°8 3°817'42 9°855'17 0°II	0°28'32 1.38718 AU	minimum elong max. Earth dist. desc. node	15926 Mar 12 10:52 15926 Mar 12 13:22 15926 Mar 18 01:44 15926 Mar 19 06:28 15926 Mar 21 20:41 15926 Mar 26 03:14	4°Υ21'01 4°Υ33'41 15°Υ22'41 17°Υ38'28 22°Υ25'50 0°႘	0°55'09 1.36473 AU
minimum elong desc. node max. Earth dist. evening rise	15925 Mar 29 00:01 15925 Apr 01 09:49 15925 Apr 02 23:02 15925 Apr 04 18:40 15925 Apr 08 13:04 15925 Apr 20 22:49 15925 May 13 18:14	20°Υ41'57 27°Υ08'27 0°႘ 3°႘55'17 0°Ⅱ 29°Ⅱ45'44	0°28'32 1.38718 AU	minimum elong max. Earth dist. desc. node evening rise	15926 Mar 12 10:52 15926 Mar 12 13:22 15926 Mar 18 01:44 15926 Mar 19 06:28 15926 Mar 21 20:41 15926 Mar 26 03:14 15926 Apr 14 17:42	4°Υ21'01 4°Υ33'41 15°Υ22'41 17°Υ38'28 22°Υ25'50 0°႘ 0°Π	0°55'09 1.36473 AU
minimum elong desc. node max. Earth dist. evening rise evening max el	15925 Mar 29 00:01 15925 Apr 01 09:49 15925 Apr 02 23:02 15925 Apr 04 18:40 15925 Apr 08 13:04 15925 Apr 20 22:49 15925 May 13 18:14 15925 May 14 00:03	20°Υ41'57 27°Υ08'27 0°႘ 3°႘317'42 9°႘555'17 0°Π 29°Π45'44	0°28'32 1.38718 AU	minimum elong max. Earth dist. desc. node evening rise	15926 Mar 12 10:52 15926 Mar 12 13:22 15926 Mar 18 01:44 15926 Mar 19 06:28 15926 Mar 21 20:41 15926 Mar 26 03:14 15926 Apr 14 17:42 15926 Apr 26 07:55	4°Υ21'01 4°Υ33'41 15°Υ22'41 17°Υ38'28 22°Υ25'50 0°႘ 0°Π 13°Π39'27	0°55'09 1.36473 AU
minimum elong desc. node max. Earth dist. evening rise evening max el retrograde	15925 Mar 29 00:01 15925 Apr 01 09:49 15925 Apr 02 23:02 15925 Apr 04 18:40 15925 Apr 08 13:04 15925 Apr 20 22:49 15925 May 13 18:14 15925 May 14 00:03 15925 May 25 09:25	20°Y41'57 27°Y08'27 0°8 3°817'42 9°855'17 0°II 29°II45'44 0°\$ 6°\$33'29	0°28'32 1.38718 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde	15926 Mar 12 10:52 15926 Mar 12 13:22 15926 Mar 18 01:44 15926 Mar 19 06:28 15926 Mar 21 20:41 15926 Mar 26 03:14 15926 Apr 14 17:42 15926 Apr 26 07:55 15926 May 08 21:24	4°Υ21'01 4°Υ33'41 15°Υ22'41 17°Υ38'28 22°Υ25'50 0°Β 0°Π 13°Π39'27 20°Π53'07	0°55'09 1.36473 AU
minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node	15925 Mar 29 00:01 15925 Apr 01 09:49 15925 Apr 02 23:02 15925 Apr 04 18:40 15925 Apr 08 13:04 15925 Apr 20 22:49 15925 May 13 18:14 15925 May 14 00:03 15925 May 25 09:25 15925 May 26 17:48	20°Y41'57 27°Y08'27 0°8 3°817'42 9°855'17 0°II 29°II45'44 0°9 6°933'29 6°935'46	0°28'32 1.38718 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node	15926 Mar 12 10:52 15926 Mar 12 13:22 15926 Mar 18 01:44 15926 Mar 19 06:28 15926 Mar 21 20:41 15926 Mar 26 03:14 15926 Apr 14 17:42 15926 Apr 26 07:55 15926 May 08 21:24 15926 May 13 14:57 15926 May 14 23:17	4°Υ21'01 4°Υ33'41 15°Υ22'41 17°Υ38'28 22°Υ25'50 0°Β 0°Π 13°Π39'27 20°Π53'07 19°Π23'04	0°55'09 1.36473 AU
minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node	15925 Mar 29 00:01 15925 Apr 01 09:49 15925 Apr 02 23:02 15925 Apr 04 18:40 15925 Apr 08 13:04 15925 Apr 20 22:49 15925 May 13 18:14 15925 May 14 00:03 15925 May 25 09:25 15925 May 26 17:48 15925 May 31 00:26	20°Y41'57 27°Y08'27 0°8 3°817'42 9°855'17 0°II 29°II45'44 0°\$66'\$33'29 6°\$25'46 4°\$10'33	0°28'32 1.38718 AU 24°36'35	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set	15926 Mar 12 10:52 15926 Mar 12 13:22 15926 Mar 18 01:44 15926 Mar 19 06:28 15926 Mar 21 20:41 15926 Mar 26 03:14 15926 Apr 14 17:42 15926 Apr 26 07:55 15926 May 08 21:24 15926 May 13 14:57	4°Υ21'01 4°Υ33'41 15°Υ22'41 17°Υ38'28 22°Υ25'50 0°Β 0°Π 13°Π39'27 20°П53'07 19°П23'04 18°П22'50	0°55'09 1.36473 AU 25°50'23
minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set	15925 Mar 29 00:01 15925 Apr 01 09:49 15925 Apr 02 23:02 15925 Apr 04 18:40 15925 Apr 08 13:04 15925 Apr 20 22:49 15925 May 13 18:14 15925 May 14 00:03 15925 May 25 09:25 15925 May 26 17:48 15925 May 31 00:26 15925 Jun 03 18:52	20°Y41'57 27°Y08'27 0°8 3°817'42 9°855'17 0°II 29°II45'44 0°9 6°933'29 6°925'46 4°910'33 30°RII	0°28'32 1.38718 AU 24°36'35 0.68547 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist.	15926 Mar 12 10:52 15926 Mar 12 13:22 15926 Mar 18 01:44 15926 Mar 19 06:28 15926 Mar 21 20:41 15926 Mar 26 03:14 15926 Apr 14 17:42 15926 Apr 26 07:55 15926 May 08 21:24 15926 May 13 14:57 15926 May 14 23:17 15926 May 19 04:13	4°Υ21'01 4°Υ33'41 15°Υ22'41 17°Υ38'28 22°Υ25'50 0°႘ 0°Π 13°Π39'27 20°П53'07 19°П23'04 18°П22'50 13°П51'19	0°55'09 1.36473 AU 25°50'23 0.67563 AU
minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist.	15925 Mar 29 00:01 15925 Apr 01 09:49 15925 Apr 02 23:02 15925 Apr 04 18:40 15925 Apr 08 13:04 15925 Apr 20 22:49 15925 May 13 18:14 15925 May 14 00:03 15925 May 26 17:48 15925 May 31 00:26 15925 Jun 03 18:52 15925 Jun 04 12:19	20°Y41'57 27°Y08'27 0°8 3°817'42 9°855'17 0°II 29°II45'44 0°\$6°\$33'29 6°\$25'46 4°\$10'33 30°RII 29°II02'42	0°28'32 1.38718 AU 24°36'35 0.68547 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	15926 Mar 12 10:52 15926 Mar 12 13:22 15926 Mar 18 01:44 15926 Mar 19 06:28 15926 Mar 21 20:41 15926 Mar 26 03:14 15926 Apr 14 17:42 15926 Apr 26 07:55 15926 May 08 21:24 15926 May 13 14:57 15926 May 14 23:17 15926 May 19 04:13 15926 May 20 17:47	4°Y21'01 4°Y33'41 15°Y22'41 17°Y38'28 22°Y25'50 0°Β 0°Π 13°Π39'27 20°П53'07 19°П23'04 18°П22'50 13°П51'19 11°П52'31	0°55'09 1.36473 AU 25°50'23 0.67563 AU 2°00'31
minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong	15925 Mar 29 00:01 15925 Apr 01 09:49 15925 Apr 02 23:02 15925 Apr 04 18:40 15925 Apr 08 13:04 15925 Apr 20 22:49 15925 May 13 18:14 15925 May 14 00:03 15925 May 25 09:25 15925 May 26 17:48 15925 May 31 00:26 15925 Jun 03 18:52 15925 Jun 04 12:19 15925 Jun 05 12:54	20°Y41'57 27°Y08'27 0°8 3°817'42 9°855'17 0°II 29°II45'44 0°\$6°\$33'29 6°\$25'46 4°\$10'33 30°RII 29°II02'42 27°II40'32 27°II47'09	0°28'32 1.38718 AU 24°36'35 0.68547 AU 2°33'30	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj	15926 Mar 12 10:52 15926 Mar 12 13:22 15926 Mar 18 01:44 15926 Mar 19 06:28 15926 Mar 21 20:41 15926 Mar 26 03:14 15926 Apr 14 17:42 15926 Apr 26 07:55 15926 May 08 21:24 15926 May 13 14:57 15926 May 14 23:17 15926 May 19 04:13 15926 May 20 17:47 15926 May 20 15:36 15926 May 26 08:31	4°Υ21'01 4°Υ33'41 15°Υ22'41 17°Υ38'28 22°Υ25'50 0°႘ 0°Π 13°Π39'27 20°Π53'07 19°Π23'04 18°Π22'50 13°Π51'19 11°Π52'31 11°Π59'26 6°Π04'05	0°55'09 1.36473 AU 25°50'23 0.67563 AU 2°00'31
minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj	15925 Mar 29 00:01 15925 Apr 01 09:49 15925 Apr 02 23:02 15925 Apr 04 18:40 15925 Apr 08 13:04 15925 Apr 20 22:49 15925 May 13 18:14 15925 May 14 00:03 15925 May 25 09:25 15925 May 31 00:26 15925 May 31 00:26 15925 Jun 03 18:52 15925 Jun 04 12:19 15925 Jun 05 12:54 15925 Jun 05 10:55	20°Y41'57 27°Y08'27 0°8 3°817'42 9°855'17 0°II 29°II45'44 0°\$6°\$33'29 6°\$25'46 4°\$10'33 30°RII 29°II02'42 27°II40'32	0°28'32 1.38718 AU 24°36'35 0.68547 AU 2°33'30	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	15926 Mar 12 10:52 15926 Mar 12 13:22 15926 Mar 18 01:44 15926 Mar 19 06:28 15926 Mar 21 20:41 15926 Mar 26 03:14 15926 Apr 14 17:42 15926 Apr 26 07:55 15926 May 08 21:24 15926 May 13 14:57 15926 May 14 23:17 15926 May 19 04:13 15926 May 20 17:47 15926 May 20 15:36	4°Y21'01 4°Y33'41 15°Y22'41 17°Y38'28 22°Y25'50 0°Β 0°Π 13°Π39'27 20°П53'07 19°П23'04 18°П22'50 13°П51'19 11°П52'31 11°П52'26	0°55'09 1.36473 AU 25°50'23 0.67563 AU 2°00'31
minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	15925 Mar 29 00:01 15925 Apr 01 09:49 15925 Apr 02 23:02 15925 Apr 04 18:40 15925 Apr 08 13:04 15925 Apr 20 22:49 15925 May 13 18:14 15925 May 14 00:03 15925 May 25 09:25 15925 May 31 00:26 15925 Jun 03 18:52 15925 Jun 04 12:19 15925 Jun 05 12:54 15925 Jun 05 10:55 15925 Jun 10 21:35	20°Y41'57 27°Y08'27 0°8 3°817'42 9°855'17 0°II 29°II45'44 0°\$6°\$33'29 6°\$25'46 4°\$10'33 30°RII 29°II02'42 27°II40'32 27°II47'09 21°II41'38	0°28'32 1.38718 AU 24°36'35 0.68547 AU 2°33'30	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	15926 Mar 12 10:52 15926 Mar 12 13:22 15926 Mar 18 01:44 15926 Mar 19 06:28 15926 Mar 21 20:41 15926 Mar 26 03:14 15926 Apr 14 17:42 15926 Apr 26 07:55 15926 May 08 21:24 15926 May 13 14:57 15926 May 14 23:17 15926 May 19 04:13 15926 May 20 17:47 15926 May 20 15:36 15926 May 26 08:31 15926 May 29 17:32	4°Υ21'01 4°Υ33'41 15°Υ22'41 17°Υ38'28 22°Υ25'50 0°႘ 0°Π 13°Π39'27 20°П53'07 19°П23'04 18°П22'50 13°П51'19 11°П52'31 11°П59'26 6°П04'05 4°П58'57	0°55'09 1.36473 AU 25°50'23 0.67563 AU 2°00'31 1°59'09
minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise	15925 Mar 29 00:01 15925 Apr 01 09:49 15925 Apr 02 23:02 15925 Apr 04 18:40 15925 Apr 08 13:04 15925 Apr 20 22:49 15925 May 13 18:14 15925 May 14 00:03 15925 May 25 09:25 15925 May 26 17:48 15925 May 31 00:26 15925 Jun 03 18:52 15925 Jun 04 12:19 15925 Jun 05 12:54 15925 Jun 05 10:55 15925 Jun 10 21:35 15925 Jun 10 21:35 15925 Jun 14 17:29	20°Y41'57 27°Y08'27 0°8 3°817'42 9°855'17 0°11 29°1145'44 0°56 6°525'46 4°510'33 30°R11 29°1102'42 27°1140'32 27°1147'09 21°1141'38 20°1117'37	0°28'32 1.38718 AU 24°36'35 0.68547 AU 2°33'30 2°32'16	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	15926 Mar 12 10:52 15926 Mar 12 13:22 15926 Mar 18 01:44 15926 Mar 19 06:28 15926 Mar 21 20:41 15926 Mar 26 03:14 15926 Apr 14 17:42 15926 Apr 26 07:55 15926 May 08 21:24 15926 May 13 14:57 15926 May 14 23:17 15926 May 19 04:13 15926 May 20 17:47 15926 May 20 15:36 15926 May 26 08:31 15926 May 29 17:32 15926 Jun 05 10:23	4°Y21'01 4°Y33'41 15°Y22'41 17°Y38'28 22°Y25'50 0°Β 0°Π 13°Π39'27 20°П53'07 19°П23'04 18°П22'50 13°П51'19 11°П52'31 11°П59'26 6°П04'05 4°П58'57 8°П35'15 21°П17'06	0°55'09 1.36473 AU 25°50'23 0.67563 AU 2°00'31 1°59'09
minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	15925 Mar 29 00:01 15925 Apr 01 09:49 15925 Apr 02 23:02 15925 Apr 04 18:40 15925 Apr 08 13:04 15925 Apr 20 22:49 15925 May 13 18:14 15925 May 14 00:03 15925 May 25 09:25 15925 May 26 17:48 15925 May 31 00:26 15925 Jun 03 18:52 15925 Jun 04 12:19 15925 Jun 05 12:54 15925 Jun 05 10:55 15925 Jun 10 21:35 15925 Jun 10 21:35 15925 Jun 14 17:29 15925 Jun 22 02:50	20°Y41'57 27°Y08'27 0°8 3°817'42 9°855'17 0°11 29°1145'44 0°9 6°933'29 6°925'46 4°910'33 30°R11 29°1102'42 27°1140'32 27°1147'09 21°1141'38 20°117'37 24°1123'48	0°28'32 1.38718 AU 24°36'35 0.68547 AU 2°33'30 2°32'16	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	15926 Mar 12 10:52 15926 Mar 12 13:22 15926 Mar 18 01:44 15926 Mar 19 06:28 15926 Mar 21 20:41 15926 Mar 26 03:14 15926 Apr 14 17:42 15926 Apr 26 07:55 15926 May 08 21:24 15926 May 13 14:57 15926 May 14 23:17 15926 May 19 04:13 15926 May 20 17:47 15926 May 20 15:36 15926 May 20 08:31 15926 May 29 17:32 15926 Jun 05 10:23 15926 Jun 15 07:14	4°Υ21'01 4°Υ33'41 15°Υ22'41 17°Υ38'28 22°Υ25'50 0°႘ 0°Π 13°Π39'27 20°П53'07 19°П23'04 18°П22'50 13°П51'19 11°П52'31 11°П59'26 6°П04'05 4°П58'57 8°П35'15	0°55'09 1.36473 AU 25°50'23 0.67563 AU 2°00'31 1°59'09
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minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist. superior conj minimum elong	15925 Mar 29 00:01 15925 Apr 01 09:49 15925 Apr 02 23:02 15925 Apr 04 18:40 15925 Apr 08 13:04 15925 Apr 20 22:49 15925 May 13 18:14 15925 May 14 00:03 15925 May 25 09:25 15925 May 26 17:48 15925 May 31 00:26 15925 Jun 03 18:52 15925 Jun 05 12:54 15925 Jun 05 10:55 15925 Jun 05 10:55 15925 Jun 10 21:35 15925 Jun 22 02:50 15925 Jun 22 02:50 15925 Jun 28 10:08 15925 Jun 28 10:08 15925 Jun 18 09:02 15925 Jul 18 09:02 15925 Jul 29 15:41 15925 Aug 03 09:48 15925 Aug 03 16:31 15925 Aug 05 16:57 15925 Aug 05 16:57 15925 Aug 07 03:27	20°Y41'57 27°Y08'27 0°8 3°817'42 9°855'17 0°11 29°1145'44 0°9 6°933'29 6°925'46 4°910'33 30°R11 29°1102'42 27°1140'32 27°1147'09 21°1141'38 20°117'37 24°123'48 0°9 1°950'01 11°941'31 0°0 1°1015'8 18°043'18 26°017'37 26°044'36 0°10 18°1056'10	0°28'32 1.38718 AU 24°36'35 0.68547 AU 2°33'30 2°32'16 19°43'49 -0.6m 1.44943 AU -2°03'25	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 evening rise asc. node	15926 Mar 12 10:52 15926 Mar 12 13:22 15926 Mar 18 01:44 15926 Mar 19 06:28 15926 Mar 21 20:41 15926 Mar 26 03:14 15926 Apr 14 17:42 15926 Apr 26 07:55 15926 May 08 21:24 15926 May 13 14:57 15926 May 14 23:17 15926 May 19 04:13 15926 May 20 17:47 15926 May 20 15:36 15926 May 20 17:32 15926 May 29 17:32 15926 Jun 05 10:23 15926 Jun 15 07:14 15926 Jun 15 07:14 15926 Jun 21 01:42 15926 Jun 21 01:42 15926 Jun 10 09:29 15926 Jul 10 09:29 15926 Jul 12 10:18 15926 Jul 14 00:45 15926 Jul 29 08:14 15926 Jul 29 08:14 15926 Jul 29 09:06 15926 Aug 09 14:45	4°Y21'01 4°Y33'41 15°Y22'41 17°Y38'28 22°Y25'50 0°8 0° II 13° II 39'27 20° II 53'07 19° II 23'04 18° II 22'50 13° II 51'19 11° II 52'31 11° II 59'26 6° II 04'05 4° II 58'57 8° II 35'15 21° II 17'06 27° II 03'35 0° II 0' II 3' II 3' II 3' II 5' 15' 10° II 23' II 17'06 27° II 17'06	0°55'09 1.36473 AU 25°50'23 0.67563 AU 2°00'31 1°59'09 18°49'16 -0.8m 1.45828 AU -2°14'12 2°14'55
minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist. superior conj minimum elong	15925 Mar 29 00:01 15925 Apr 01 09:49 15925 Apr 02 23:02 15925 Apr 04 18:40 15925 Apr 08 13:04 15925 Apr 20 22:49 15925 May 13 18:14 15925 May 14 00:03 15925 May 25 09:25 15925 May 26 17:48 15925 May 31 00:26 15925 Jun 03 18:52 15925 Jun 04 12:19 15925 Jun 05 10:55 15925 Jun 05 10:55 15925 Jun 10 21:35 15925 Jun 10 21:35 15925 Jun 22 02:50 15925 Jun 22 02:50 15925 Jun 28 10:08 15925 Jun 28 10:08 15925 Jun 18 09:02 15925 Jul 18 09:02 15925 Jul 29 15:41 15925 Aug 03 09:48 15925 Aug 03 16:31 15925 Aug 05 16:57 15925 Aug 07 03:27 15925 Aug 17 03:27 15925 Aug 17 03:27 15925 Aug 22 18:03	20°Y41'57 27°Y08'27 0°8 3°817'42 9°855'17 0°11 29°145'44 0°9 6°933'29 6°925'46 4°910'33 30°R11 29°1102'42 27°1140'32 27°1147'09 21°1141'38 20°117'37 24°123'48 0°9 1°950'01 11°941'31 0°0 1°010'58 18°043'18 26°\Oldot 17'37 26°\Oldot 13'37 26°\Oldot 13'37 26°\Oldot 13'37	0°28'32 1.38718 AU 24°36'35 0.68547 AU 2°33'30 2°32'16 19°43'49 -0.6m 1.44943 AU -2°03'25	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 evening rise	15926 Mar 12 10:52 15926 Mar 12 13:22 15926 Mar 18 01:44 15926 Mar 19 06:28 15926 Mar 21 20:41 15926 Mar 26 03:14 15926 Apr 14 17:42 15926 Apr 26 07:55 15926 May 08 21:24 15926 May 13 14:57 15926 May 14 23:17 15926 May 19 04:13 15926 May 20 17:47 15926 May 20 15:36 15926 May 20 17:32 15926 May 20 17:32 15926 Jun 05 10:23 15926 Jun 05 10:23 15926 Jun 15 07:14 15926 Jun 17 07:14 15926 Jun 18 07:14 15926 Jun 19 03:35 15926 Jun 21 01:42 15926 Jun 10 09:29 15926 Jul 10 09:29 15926 Jul 10 09:29 15926 Jul 14 00:45 15926 Jul 14 00:45 15926 Jul 29 08:14 15926 Jul 29 09:06 15926 Aug 09 14:45 15926 Aug 18 14:07	4°Y21'01 4°Y33'41 15°Y22'41 17°Y38'28 22°Y25'50 0°8 0°Π 13°Π39'27 20°П53'07 19°П23'04 18°П22'50 13°П51'19 11°П52'31 11°П52'31 11°П59'26 6°П04'05 4°П58'57 8°П35'15 21°П17'06 27°П03'35 0°© 10°©27'54 0°Ω 3°Ω10'23 5°Ω40'39 5°Ω42'32 29°Ω56'30 0°™ 17°™50'24 29°™40'54	0°55'09 1.36473 AU 25°50'23 0.67563 AU 2°00'31 1°59'09 18°49'16 -0.8m
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avanina aat	15026 Aug 20 02:40	2° ₽ 13'45			15927 Jul 22 14:55	0° m p	
evening set	15926 Aug 28 03:40			1-			
:c:	15926 Aug 30 22:27	30°RM)	2015107	asc. node	15927 Jul 27 11:30	6° Mp 54'48	10007157
inferior conj	15926 Sep 02 21:57	26° Mp 39'04	2°15'06	evening max el	15927 Aug 02 00:15	13° Mp 31'09	19°07'56
minimum elong	15926 Sep 03 00:15	26° m/32'07	2°14'22	retrograde	15927 Aug 08 21:30	17° m) 18'48	
min. Earth dist.	15926 Sep 05 00:23	24° Mp 07'58	0.65284 AU	evening set	15927 Aug 12 09:52	16° Mp 07'11	
morning rise	15926 Sep 08 19:34	20° m 15'39		inferior conj	15927 Aug 17 20:53	10° m) 18'39	2°46'08
desc. node	15926 Sep 11 04:45	18° m 39'48		minimum elong	15927 Aug 17 22:41	10° My 12'48	2°45'28
direct	15926 Sep 15 06:04	17° m 38'38		min. Earth dist.	15927 Aug 19 09:13	8° m 21'22	0.66933 AU
morning max el	15926 Sep 28 16:07	25° Mp 30'40	27°05'56	morning rise	15927 Aug 23 10:48	3° My 52'02	
	15926 Oct 02 19:05	0∘ ত		desc. node	15927 Aug 29 02:10	1° m) 17'05	
	15926 Oct 23 15:33	0° M .		direct	15927 Aug 29 12:30	1°My16′22	
morning set	15926 Nov 03 05:59	19°M08'25		morning max el	15927 Sep 11 03:37	8° m 47'32	25°58'15
asc. node	15926 Nov 05 16:10	23°M54'18			15927 Sep 27 20:11	0∘ ऌ	
max. Earth dist.	15926 Nov 07 12:13	27°MJ36'21	1.33430 AU		15927 Oct 16 03:31	0° M .	
	15926 Nov 08 16:13	0° ∡ ¹		morning set	15927 Oct 17 02:14	1° M 44'01	
				max. Earth dist.	15927 Oct 20 19:00	8° M 41'46	1.35314 AU
superior conj	15926 Nov 11 16:41	6° ∡ 19′09	0°53'03	asc. node	15927 Oct 23 12:57	14°ML03'36	
minimum elong	15926 Nov 11 14:25	6° ∡ ¹07'08	0°53'22				
evening rise	15926 Nov 18 19:53	21° × 735'18	0 33 22	superior conj	15927 Oct 26 11:50	19° M 59'39	0°26'41
evening rise	15926 Nov 22 21:06	0°る		minimum elong	15927 Oct 26 10:21	19°ML52'08	0°26'58
desc. node	15926 Dec 08 02:20	24°る15'40		minimum clong	15927 Oct 31 08:03	0° ⊼	0 20 30
evening max el	15926 Dec 09 16:55	25°る55'43	21950141	ovanina rias	15927 Nov 03 03:59	5° ∡ 753'32	
evening max er		25 ⊙ 55 45 0° ≈	21 3941	evening rise		ッメ・ショッ2 0° ろ	
	15926 Dec 14 22:00				15927 Nov 16 09:01		20020127
retrograde	15926 Dec 22 04:42	2°≈06'18		evening max el	15927 Nov 21 14:17	6° る 20'38	20°29'37
evening set	15926 Dec 25 13:37	1°≈41'00		desc. node	15927 Nov 24 23:24	9° る 12'03	
	15926 Dec 30 01:34	30°Rる		retrograde	15927 Dec 02 15:13	11° ට 50'06	
inferior conj	15927 Jan 03 03:08	27° る 49'59		evening set	15927 Dec 04 23:15	11° පි 36'30	
minimum elong	15927 Jan 03 00:44		5°59'22	inferior conj	15927 Dec 13 18:57	7° る 42'15	
min. Earth dist.	15927 Jan 02 22:24		0.54436 AU	minimum elong	15927 Dec 13 09:35	7° る 55'54	
morning rise	15927 Jan 11 12:41	24° る 02'38		min. Earth dist.	15927 Dec 15 03:57		0.54622 AU
direct	15927 Jan 15 00:46	23° る 35'33		morning rise	15927 Dec 21 19:36	3° る 43'37	
morning max el	15927 Jan 27 08:38	29° る 33'07	21°52'51	direct	15927 Dec 26 09:08	2° ප 58'51	
	15927 Jan 27 19:41	0°≈		morning max el	15928 Jan 08 19:30	9° る 34'05	23°41'15
asc. node	15927 Feb 01 15:07	5° ≈ 35'06		asc. node	15928 Jan 19 12:24	23° る 08'11	
	15927 Feb 15 14:36	0° ∀			15928 Jan 23 14:26	0° ≈	
morning set	15927 Feb 17 05:48	3°) €24'36		morning set	15928 Feb 01 17:40	18° ≈ 08'48	
					15928 Feb 07 04:35	0° ∀	
superior conj	15927 Feb 24 09:03	18° ¥ 32'53	1°15'34				
minimum elong	15927 Feb 24 11:27	18° ¥ 45′29	1°15'30	superior conj	15928 Feb 08 13:54	3° ₩ 01'09	1°29'11
max. Earth dist.	15927 Feb 28 14:08	27° ¥ 13'54	1.34471 AU	minimum elong	15928 Feb 08 15:37	3° ₩ 10'30	1°29'28
	15927 Mar 01 23:20	$0^{\circ}\Upsilon$		max. Earth dist.	15928 Feb 11 09:55	9° ₩ 06'09	1.32855 AU
evening rise	15927 Mar 04 19:51	5° Ƴ 33'50		evening rise	15928 Feb 16 07:09	19° ¥ 10'53	
desc. node	15927 Mar 06 03:06	8° Υ 01'58		desc. node	15928 Feb 20 23:43	28°) 14'43	
desc. Hode	15927 Mar 18 21:30	0°8		desc. node	15928 Feb 21 22:28	0°Υ	
evening max el	15927 Apr 08 21:47	27° 8 23'58	26°40'34		15928 Mar 12 00:26	0°8	
evening max er	15927 Apr 11 18:42	0°Ⅱ	20 47 54	evening max el	15928 Mar 21 10:52	10° 8 49'01	27°26'46
retrograde	15927 Apr 11 18:42 15927 Apr 22 03:45	4° Ⅱ 51'49		retrograde	15928 Apr 04 03:43	18° 8 21'05	27 20 40
•	-	2° Ⅱ 19'27		-	15928 Apr 10 21:25	15° 8 53'12	
evening set	15927 Apr 28 14:59			evening set		13 8 33 12	0.64220.411
asc. node	15927 Apr 30 12:13	0° Ⅱ 37'48		min. Earth dist.	15928 Apr 14 16:51	_	0.64338 AU
i To at 11 a	15927 May 01 02:59	30°R₩	0.66142.441	asc. node	15928 Apr 16 09:30	10° 8 39'57	0017116
min. Earth dist.	15927 May 02 14:22		0.66143 AU	inferior conj	15928 Apr 17 07:32	9° 8 40'47	0°17'16
inferior conj	15927 May 04 16:51	25° 8 54'36	1°15'28	minimum elong	15928 Apr 17 07:02	9° 8 42'06	0°16'38
minimum elong	15927 May 04 15:05	25° 8 59'48	1°14'14	morning rise	15928 Apr 23 18:50	4° 8 18'51	
morning rise	15927 May 10 16:29	20° 8 18'21		direct	15928 Apr 26 08:48	3° 8 44'50	
direct	15927 May 13 15:29	19° 8 30'10		morning max el	15928 May 02 16:50	6° 8 59'45	17°50'22
morning max el	15927 May 19 23:49	_	18°11'16		15928 May 18 06:33	Π °0	
	15927 May 25 20:35	$0^{\circ}\Pi$		desc. node	15928 May 19 01:06	1° Ⅱ 17'50	
desc. node	15927 Jun 02 04:12	11° Ⅱ 08'33		morning set	15928 May 19 19:31	2° Ⅲ 35′04	
morning set	15927 Jun 08 06:05	20° Ⅱ 52'23					
	15927 Jun 13 23:04	0ಂಣ		superior conj	15928 Jun 02 06:26	24° Ⅱ 43'38	-1°38'32
				minimum elong	15928 Jun 01 21:53	24° Ⅱ 09'19	1°38'26
superior conj	15927 Jun 23 09:57	14°954'26	-2°05'01		15928 Jun 05 13:51	0ංම	
			2005126	max. Earth dist.	15928 Jun 07 02:52	2°526'09	1.45350 AU
minimum elong	15927 Jun 23 03:14	14° © 28'10	2°05'26	max. Earm dist.	13720 Juli 07 02.32	2 -2007	1.43330 AU
max. Earth dist.	15927 Jun 23 03:14 15927 Jun 25 07:01	14°©28'10 17°©50'27	1.45963 AU	evening rise	15928 Jun 18 01:03	19° 5 22'33	1.43330 AO
-					15928 Jun 18 01:03		1.43330 AO
max. Earth dist.	15927 Jun 25 07:01	17°\$50′27 0° Ω		evening rise		19° © 22'33 0° Ω	-0.6m
-	15927 Jun 25 07:01 15927 Jul 03 02:39	17° © 50'27	1.45963 AU		15928 Jun 18 01:03 15928 Jun 25 01:12	19° © 22'33	

evening max el	15928 Jul 15 04:49	27° Ω 24'24	20°02'57	evening rise	15929 May 28 13:50	28° ∏ 56′12	
	15928 Jul 18 05:24	0° ™			15929 May 29 06:22	0 \circ	
retrograde	15928 Jul 22 20:20	1°Mp44'12			15929 Jun 18 18:45	0 \circ Ω	
evening set	15928 Jul 26 18:53	0° mp 14'55		evening max el	15929 Jun 28 03:20	11° Ω 18'09	21°11'22
	15928 Jul 27 02:28	30°R€		asc. node	15929 Jun 30 05:08	13° Ω 13'09	
inferior conj	15928 Aug 01 01:45	24°Ω14'06	3°03'25	retrograde	15929 Jul 06 19:15	16° Ω 18'59	
minimum elong	15928 Aug 01 02:43	24°Ω10'50	3°02'48	evening set	15929 Jul 11 04:40	14° Ω 32'18	
min. Earth dist.	15928 Aug 02 00:12	22°Ω57'56	0.68144 AU	inferior conj	15929 Jul 16 10:10	8° Ω 20'39	
morning rise	15928 Aug 06 10:09	17° Ω 49'09		minimum elong	15929 Jul 16 10:10	8° Ω 20'39	3°08'07
direct	15928 Aug 12 00:56	15°Ω22'03 15°Ω56'09		min. Earth dist.	15929 Jul 16 19:11	7° Ω 49'18	0.68883 AU
desc. node	15928 Aug 14 23:33	22°Ω17'45	24925105	morning rise	15929 Jul 21 15:24	2° Ω 00'46 30°R ©	
morning max el	15928 Aug 23 14:39	0° M)	24 33 03	direct	15929 Jul 25 04:00 15929 Jul 26 18:17	30 k≌ 29°\$47'44	
	15928 Aug 30 08:44	0∘ ⊽ 0 ım		direct	15929 Jul 28 10:06	29 3947 44 0°Ω	
morning set	15928 Sep 20 02:56 15928 Sep 28 05:06	0 <u>≈</u> 13° Ω 34'04		desc. node	15929 Aug 01 20:53	2° Ω 13'56	
max. Earth dist.	15928 Oct 01 18:47	19° £ 54'54	1.37574 AU	morning max el	15929 Aug 01 20:33 15929 Aug 06 02:00	5° Ω 55'47	23°05'58
max. Lattii uist.	15928 Oct 07 04:51	0°M	1.57574 AU	morning max cr	15929 Aug 00 02:00 15929 Aug 24 17:18	0°m)	23 03 38
	13728 001 07 04.31	O IIIG		morning set	15929 Sep 09 10:26	24° Mp 28'49	
superior conj	15928 Oct 08 20:06	3°ML08'54	-0°05'06	morning set	15929 Sep 12 17:21	ر د وکیارا کو 0° <u>Ω</u>	
minimum elong	15928 Oct 08 20:25	3°M10'26		max. Earth dist.	15929 Sep 13 17:33	0 — 1° ≏ 43'25	1.39981 AU
behind sun begin	15928 Oct 08 13:57	2°M39'07	0 01 11	max. Earth dist.	13,2, 30p 13 17.33	1 - 15 25	1.57701710
behind sun end	15928 Oct 09 02:53	3°M41'48		superior conj	15929 Sep 21 13:36	15° ≏ 38'08	-0°40'45
asc. node	15928 Oct 09 09:39	4°M14'46		minimum elong	15929 Sep 21 16:43	15° ⊆ 52'23	0°40'05
evening rise	15928 Oct 17 07:26	19°M58'40		asc. node	15929 Sep 26 06:19	24° Ω 24'14	
	15928 Oct 22 10:18	0° ⊼			15929 Sep 29 04:42	0°M	
evening max el	15928 Nov 03 02:14	17° ∡ ³34'24	19°20'25	evening rise	15929 Oct 01 03:17	3°M43'29	
desc. node	15928 Nov 10 20:33	22° ∡ ′09′11		evening max el	15929 Oct 17 03:06	29°M37'59	18°33'37
retrograde	15928 Nov 12 12:10	22° ∡ 17'37		· ·	15929 Oct 17 12:05	0° ∡ ¹	
evening set	15928 Nov 14 09:50	22° ∡ 06'53		retrograde	15929 Oct 25 03:19	3° ҂ 41'22	
inferior conj	15928 Nov 22 23:18	17° ∡ °58′23	-3°45'19	evening set	15929 Oct 27 02:05	3° ∡ ′27'45	
minimum elong	15928 Nov 22 14:15	18° ∡ 13'15	3°41'28	desc. node	15929 Oct 28 17:48	2° ∡ °56′07	
min. Earth dist.	15928 Nov 25 13:09	16° ∡ 16'52	0.55718 AU		15929 Nov 02 15:52	30°RM	
morning rise	15928 Nov 30 16:25	13° ∡ ³30′12		inferior conj	15929 Nov 04 00:19	28°M58'50	-2°01'00
direct	15928 Dec 06 04:03	12° ∡ °21'42		minimum elong	15929 Nov 03 19:29	29°M08'05	1°58'25
morning max el	15928 Dec 20 04:32	19° ∡ °27'17	25°28'10	min. Earth dist.	15929 Nov 07 04:35	26°M33'31	0.57516 AU
	15928 Dec 29 02:03	5°0		morning rise	15929 Nov 11 09:32	23°M53'59	
asc. node	15929 Jan 05 09:35	11° る 30'45		direct	15929 Nov 17 13:32	22°M18'38	
	15929 Jan 14 21:58	0° ≈		morning max el	15929 Dec 01 19:21	29° M 47'17	26°54'17
morning set	15929 Jan 16 05:19	2° ≈ 47'34			15929 Dec 02 00:34	0° ∡	
				asc. node	15929 Dec 23 06:42	0° る 30'29	
superior conj	15929 Jan 22 22:53	17° ≈ 37'39			15929 Dec 23 00:07	0° る	
minimum elong	15929 Jan 22 23:39	17° ≈ 41'50	1°37'08	morning set	15929 Dec 31 15:01	17° る 16'48	
max. Earth dist.	15929 Jan 24 12:21	21°≈04'27	1.31720 AU		15930 Jan 06 09:32	0° ≈	
	15929 Jan 28 15:31	0°) {			15020 1 05 10 00	20 15100	1005151
evening rise	15929 Jan 30 03:34	3°) €08'34		superior conj	15930 Jan 07 10:00	2°≈17'00	
desc. node	15929 Feb 06 20:22	18°) € 10'34		minimum elong	15930 Jan 07 09:42	2°≈15'17	
ovenina ma1	15929 Feb 13 17:31 15929 Mar 03 21:19	0° Υ 23° Υ 41'33	27025110	max. Earth dist.	15930 Jan 07 19:07 15930 Jan 14 06:39	3°≈07'58 17°≈21'31	1.31113 AU
evening max el	15929 Mar 03 21:19 15929 Mar 12 16:45	0° 8	27-35-18	evening rise	15930 Jan 14 06:39 15930 Jan 20 12:26	0°)	
retrograde	15929 Mar 17 20:15	1° 8 09'42		desc. node	15930 Jan 24 17:04	0) 7°) 43'11	
renograue	15929 Mar 17 20:15 15929 Mar 22 17:36	1° O 0942 30° R Υ		uese. Hour	15930 Jan 24 17:04 15930 Feb 08 16:49	0°Υ	
evening set	15929 Mar 24 15:58	28° Υ 54'00		evening max el	15930 Feb 14 02:55	5°Υ50'29	27°00'55
min. Earth dist.	15929 Mar 28 10:08	25°Υ53'50	0.62233 AU	retrograde	15930 Feb 28 03:45	13°Υ08'35	27 0733
inferior conj	15929 Mar 31 10:35	23°Υ02'08		evening set	15930 Mar 06 19:34	11° Υ 12'38	
minimum elong	15929 Mar 31 12:28	22° Υ 57'41		min. Earth dist.	15930 Mar 10 17:17		0.59986 AU
asc. node	15929 Apr 03 06:49	20° Y ′28'43	0 3 1 12	inferior conj	15930 Mar 13 22:28	5° Υ 49'31	
morning rise	15929 Apr 07 12:01	17° Υ 56'57		minimum elong	15930 Mar 14 03:42	5° Υ 38'37	
direct	15929 Apr 09 18:15	17° Y 33'43		asc. node	15930 Mar 21 04:10	1° Υ 11'42	/ V -
morning max el	15929 Apr 16 10:22		17°47'05	morning rise	15930 Mar 21 15:19	1° Υ 03'39	
<i>3</i>	15929 Apr 23 07:48	0°8		direct	15930 Mar 23 16:02	0° Υ 47'31	
morning set	15929 May 02 08:22	15° 8 23'17		morning max el	15930 Mar 31 01:00	4° Υ 28'16	18°02'23
desc. node	15929 May 05 21:54	21° 8 38'57		morning set	15930 Apr 15 14:46	28° Y ′59'33	-
	15929 May 10 17:45	0°II		U .	15930 Apr 16 03:51	0°8	
				desc. node	15930 Apr 22 18:37	12° 8 07'35	
superior conj	15929 May 14 00:33	5° Ⅱ 33'16	-1°02'27		- -		
minimum elong	15929 May 13 18:45	5° Ⅱ 08'56	1°02'19	superior conj	15930 Apr 25 17:59	17° 8 26'02	-0°24'18
max. Earth dist.	15929 May 20 19:23	16° Ⅱ 41'23	1.44057 AU	minimum elong	15930 Apr 25 15:56	17° 8 16'56	0°24'29
				-			

	15930 May 03 01:45	Π°			15931 Apr 08 04:48	0° ႘	
max. Earth dist.	15930 May 03 07:43	0° Ⅲ 24'50	1.42222 AU	desc. node	15931 Apr 09 15:19	2° 8 40'02	
evening rise	15930 May 08 17:22	9° Ⅱ 13'11		max. Earth dist.	15931 Apr 15 16:07	13° 8 28'43	1.40036 AU
	15930 May 22 08:20	0 \circ \odot		evening rise	15931 Apr 19 17:50	20° 8 25'43	
evening max el	15930 Jun 10 20:52	25°S12'20	22°29'06		15931 Apr 25 14:48	0°Щ	
asc. node	15930 Jun 17 02:04	0° Ω 01'17			15931 May 16 11:51	0°©	22050125
. 1	15930 Jun 17 01:02	0°Ω		evening max el	15931 May 24 11:23	9°507'39	23°50'35
retrograde	15930 Jun 20 16:37 15930 Jun 24 01:12	0° £ 57′28 30° ₹ ©		asc. node retrograde	15931 Jun 03 23:06 15931 Jun 04 11:12	15° © 33'20 15° © 34'25	
evening set	15930 Jun 25 13:30	28°\$54'37		evening set	15931 Jun 09 19:46	13° 9 34'23	
inferior conj	15930 Jun 30 20:04	22° © 33'53	3°03'20	min. Earth dist.	15931 Jun 14 12:23	7°9548'48	0.68904 AU
minimum elong	15930 Jun 30 19:09	22°937'05	3°02'30	inferior conj	15931 Jun 15 05:32	6°950'14	
min. Earth dist.	15930 Jun 30 15:56	22° 5 48'17	0.69139 AU	minimum elong	15931 Jun 15 03:52	6°955'57	
morning rise	15930 Jul 06 00:38	16° © 21'11		morning rise	15931 Jun 20 11:59	0° ട്ട 46'10	
direct	15930 Jul 10 15:17	14°526'02			15931 Jun 21 15:28	30°RⅡ	
morning max el	15930 Jul 19 16:19	19° 5 41'51	21°39'27	direct	15931 Jun 24 14:36	29° Ⅱ 10'42	
desc. node	15930 Jul 19 18:10	19° 5 346'29			15931 Jun 27 18:20	0 \circ 50	
	15930 Jul 28 07:55	0 $^{\circ}$ Ω		morning max el	15931 Jul 02 12:36		20°22'19
	15930 Aug 17 21:02	0° m)		desc. node	15931 Jul 06 15:22	8° 5 014'41	
morning set	15930 Aug 20 15:46	4° Mp 22'04			15931 Jul 22 04:32	0°Ω	
max. Earth dist.	15930 Aug 26 21:21	14° m) 25'47	1.42258 AU	morning set	15931 Jul 31 01:21	13° Ω 27'05	
	15020 0 02 11 52	270m.17122	1017110	max. Earth dist.	15931 Aug 09 08:12	28° Ω 00'45	1.44134 AU
superior conj	15930 Sep 03 11:52	27° m 16'32 27° m 43'46			15931 Aug 10 13:58	0° m)	
minimum elong	15930 Sep 03 18:08 15930 Sep 05 01:23	2/°11/43′46 0° <u>Ω</u>	1-10-33	superior conj	15931 Aug 15 11:17	7° m 57'01	10/10/3/
asc. node	15930 Sep 13 02:56	0 = 14° £ 27'51		minimum elong	15931 Aug 15 11:17 15931 Aug 15 19:06	8°m ₀ 29'14	
evening rise	15930 Sep 14 11:45	16° £ 57'38		evening rise	15931 Aug 13 17:00 15931 Aug 28 04:10	29° m) 29'47	1 4713
evening rise	15930 Sep 21 18:40	0°M		evening rise	15931 Aug 28 11:08	0∘ ত	
evening max el	15930 Sep 30 12:36	12°M21'16	18°07'52	asc. node	15931 Aug 30 23:36	4° £ 22'03	
retrograde	15930 Oct 07 13:20	15°M57'22		evening max el	15931 Sep 14 02:33	25° ≏ 34'16	18°01'36
evening set	15930 Oct 09 18:12	15°M36'34		retrograde	15931 Sep 20 14:28	28° ≏ 56'46	
desc. node	15930 Oct 15 15:07	11°M55'42		evening set	15931 Sep 23 03:12	28° ≏ 25′13	
inferior conj	15930 Oct 16 22:49	10°M46'13	-0°25'12	inferior conj	15931 Sep 29 15:53	23° ≏ 15'34	0°52'15
minimum elong	15930 Oct 16 21:57	10°M48'09	0°24'25	minimum elong	15931 Sep 29 17:21	23° ≏ 11'49	0°51'56
min. Earth dist.	15930 Oct 20 04:18	7°M54'27	0.59710 AU	min. Earth dist.	15931 Oct 02 13:58	20° ≏ 17'35	0.62003 AU
morning rise	15930 Oct 23 22:25	5° M ₊07'43		desc. node	15931 Oct 02 12:29	20° £ 21'13	
direct	15930 Oct 30 11:56	3°M06'57	25046105	morning rise	15931 Oct 06 04:55	17° 2 11'54	
morning max el	15930 Nov 13 18:20	10°M52'45	27°46'05	direct	15931 Oct 12 21:19	14° £ 50'46	27050124
aca mada	15930 Nov 28 16:24	0° ∡ ¹ 19° ∡ ¹56'59		morning max el	15931 Oct 27 00:20	22° ≏ 47'33	27°58'34
asc. node	15930 Dec 10 03:44 15930 Dec 15 03:31	0°る			15931 Nov 02 10:14 15931 Nov 21 21:57	0°M 0° <i>⊼</i> 7	
morning set	15930 Dec 15 03:51 15930 Dec 15 20:56	1° る 31'36		asc. node	15931 Nov 27 00:42	9° × ⁷ 42'43	
max. Earth dist.	15930 Dec 22 02:44	15°る09'34	1.31044 AU	morning set	15931 Nov 29 21:01	15° × ⁷ 27'11	
max. Earth dist.	13,30 Bec 22 02.11	15 00751	1.51011110	max. Earth dist.	15931 Dec 05 07:17	26° × 59'45	1.31527 AU
superior conj	15930 Dec 22 21:19	16° ප 53'27	1°33'08		15931 Dec 06 16:09	0°ਰ	
minimum elong	15930 Dec 22 20:02	16° ප් 46'14	1°33'50				
C	15930 Dec 28 19:00	0° ≈		superior conj	15931 Dec 07 06:59	1° る 21'53	1°22'23
evening rise	15930 Dec 29 14:13	1° ≈ 44'06		minimum elong	15931 Dec 07 04:57	1° る 10'38	1°22'57
desc. node	15931 Jan 11 13:52	26° ≈ 43'41		evening rise	15931 Dec 14 00:20	16° ප 11'31	
	15931 Jan 13 14:25	0°) €			15931 Dec 20 17:25	0° ≈	
evening max el	15931 Jan 27 01:03	17° ∺ 07'25	26°09'40	desc. node	15931 Dec 29 10:44	14° ≈ 59'58	
retrograde	15931 Feb 10 00:12	24°) 12'43		evening max el	15932 Jan 08 14:40	27°≈33'43	24°40'44
evening set	15931 Feb 16 04:45	22°\(\)42'00	0.55005.444		15932 Jan 11 09:59	0°) {	
min. Earth dist.	15931 Feb 20 14:15	20°) €04'17	0.57807 AU	retrograde	15932 Jan 22 07:56	4°) €24'46	
inferior conj	15931 Feb 23 15:31	17° ¥ 52'57		evening set	15932 Jan 27 16:04	3°) €21'48 0°) €33'17	0.55062 AII
minimum elong morning rise	15931 Feb 24 00:03 15931 Mar 03 22:30	17°) 37'36 13°) 28'35	3°46'20	min. Earth dist.	15932 Feb 02 02:36 15932 Feb 03 00:04	0°π33°17 30°R≈	0.55963 AU
direct	15931 Mar 05 22:50	13° X 15'50		inferior conj	15932 Feb 03 00:04 15932 Feb 04 11:23	30 k≈ 29°≈04'30	-5°10'45
asc. node	15931 Mar 08 01:33	13°) ₹31'44		minimum elong	15932 Feb 04 20:19	28°≈50'31	5°08'18
morning max el	15931 Mar 14 08:54	17°) €25'45	18°37'57	morning rise	15932 Feb 13 02:48	25°≈01'06	
5	15931 Mar 23 08:12	0° Υ		direct	15932 Feb 15 08:07	24° ≈ 47'42	
morning set	15931 Mar 30 09:30	13° Y ′08'31		asc. node	15932 Feb 22 22:56	27° ≈ 37'52	
				morning max el	15932 Feb 25 05:50	29° ≈ 36′21	19°35'44
superior conj	15931 Apr 08 07:41	0° 8 13'28	0°11'02		15932 Feb 25 15:22	0° ∀	
minimum elong	15931 Apr 08 08:25	0° 8 16'54	0°10'35	morning set	15932 Mar 13 12:29	27°) € 37′23	
behind sun begin	15931 Apr 08 03:09	29° Y ′52′18			15932 Mar 14 16:48	0° Ƴ	
behind sun end	15931 Apr 08 13:42	0° 8 41'27					

superior conj	15932 Mar 21 13:07	13° Y '42'29	0°41'03	morning set	15933 Feb 25 20:44	12°) 17'33	
minimum elong	15932 Mar 21 15:19	13° Y 53'14	0°40'35	morning set	13733100 23 20.44	12 /(1/33	
desc. node	15932 Mar 26 11:58	23° Y ′11'59		superior conj	15933 Mar 05 06:13	27°) 41′56	1°04'49
max. Earth dist.	15932 Mar 27 22:20	25° Y ′51'15	1.37738 AU	minimum elong	15933 Mar 05 08:46	27° ¥ 55'02	1°04'33
	15932 Mar 30 05:08	0° ႘		Č	15933 Mar 06 09:14	$0^{\circ}\Upsilon$	
evening rise	15932 Mar 31 14:49	2° 8 29'47		max. Earth dist.	15933 Mar 10 06:51	7° Ƴ 46'44	1.35575 AU
Č	15932 Apr 17 17:54	0°II		desc. node	15933 Mar 13 08:37	13° Ƴ 40'01	
evening max el	15932 May 06 00:45	23° II 02'03	25°09'15	evening rise	15933 Mar 14 05:29	15° Ƴ 17'31	
C	15932 May 17 07:08	0∘ ©		C	15933 Mar 22 13:50	0°B	
retrograde	15932 May 18 01:54	0°902'22			15933 Apr 12 07:59	Π°	
-	15932 May 18 20:21	30°RⅡ		evening max el	15933 Apr 18 14:19	6° Ⅱ 52'01	26°17'46
asc. node	15932 May 20 20:14	29° Ⅱ 30'34		retrograde	15933 May 01 11:46	14° ∐ 14′00	
evening set	15932 May 23 21:49	27° Ⅲ 35′24		evening set	15933 May 07 17:51	11° Ⅱ 41'51	
min. Earth dist.	15932 May 28 06:27	22° II 43'29	0.68184 AU	asc. node	15933 May 07 17:26	11° Ⅱ 42'43	
inferior conj	15932 May 29 12:39	21° Ⅱ 04'41	2°20'55	min. Earth dist.	15933 May 11 20:09	7° Ⅱ 25'24	0.67006 AU
minimum elong	15932 May 29 10:31	21° Ⅱ 11'39	2°19'37	inferior conj	15933 May 13 15:19	5° Ⅱ 12'49	1°42'56
morning rise	15932 Jun 03 23:36	15° Ⅱ 10′22		minimum elong	15933 May 13 13:13	5° Ⅱ 19'16	1°41'35
direct	15932 Jun 07 14:45	13° Ⅱ 54'40			15933 May 18 15:06	30° ₹ 8	
morning max el	15932 Jun 14 16:09	17° Ⅱ 46′24	19°18'45	morning rise	15933 May 19 09:30	29° 8 29'26	
desc. node	15932 Jun 22 12:29	27° Ⅲ 23′16		direct	15933 May 22 14:02	28° 8 32'00	
	15932 Jun 24 08:51	0 \circ			15933 May 26 16:49	Π $^{\circ}0$	
greatest brilliancy	15932 Jun 27 08:51	4° 5 22'28	-0.7m	morning max el	15933 May 29 02:27	1° Ⅱ 59'50	18°31'01
morning set	15932 Jul 09 05:52	22° 5 23'19		desc. node	15933 Jun 09 09:31	17° Ⅱ 01'26	
	15932 Jul 14 04:18	$0^{\circ}\Omega$			15933 Jun 17 17:30	0 \circ	
max. Earth dist.	15932 Jul 22 00:21	12° Ω 12'19	1.45407 AU	morning set	15933 Jun 19 01:10	2° © 04'30	
superior conj	15932 Jul 25 12:00	17° Ω 41'57	-2°10'18	superior conj	15933 Jul 04 22:22	26° © 55'26	-2°12'47
minimum elong	15932 Jul 25 16:39	18°Ω00'24		minimum elong	15933 Jul 04 19:26	26°\$43'59	
minimum ciong	15932 Aug 02 04:16	0° m)	2 10 44	max. Earth dist.	15933 Jul 04 19:36		1.45971 AU
evening rise	15932 Aug 08 23:09	11° Mp 06'22		max. Earth dist.	15933 Jul 06 21:43	0°Ω	1.109/1710
asc. node	15932 Aug 16 20:18	24° m) 01'54		evening rise	15933 Jul 20 17:05	21° Ω 39'18	
uov. nouv	15932 Aug 20 15:50	0∘ ⊽		evening rise	15933 Jul 25 23:59	0° m)	
evening max el	15932 Aug 27 17:18	9° ഫ 07'52	18°13'44	greatest brilliancy	15933 Jul 28 23:23	4° m) 39'42	-0.8m
retrograde	15932 Sep 03 02:04	12° ₽ 30'04		asc. node	15933 Aug 03 17:00	13° m) 21'20	
evening set	15932 Sep 05 23:28	11° ≏ 44'42		evening max el	15933 Aug 11 05:50	22° m 54'03	18°43'26
inferior conj	15932 Sep 11 23:28	6° ≏ 18'34	1°50'00	retrograde	15933 Aug 17 20:13	26° m/28'46	
minimum elong	15932 Sep 12 01:46	6° ≙ 11'59	1°49'19	evening set	15933 Aug 21 02:55	25° m) 27'17	
min. Earth dist.	15932 Sep 14 09:43	3° ₾ 33'01	0.64161 AU	inferior conj	15933 Aug 26 17:43	19° m 46'42	2°30'03
morning rise	15932 Sep 18 02:19	29° m 59'36		minimum elong	15933 Aug 26 19:53	19° m 39'59	2°29'21
desc. node	15932 Sep 18 09:52	29° m 45'06		min. Earth dist.	15933 Aug 28 14:17	17° m 28'29	0.66030 AU
	15932 Sep 18 02:07	30°R, M)		morning rise	15933 Sep 01 11:48	13° m 21'00	
direct	15932 Sep 24 16:09	27° m 25'45		desc. node	15933 Sep 05 07:16	11° m)06'51	
	15932 Oct 01 23:56	0∘ ⊽		direct	15933 Sep 07 18:55	10°Mp43'16	
morning max el	15932 Oct 08 10:30	5° ഫ 24'02	27°34'07	morning max el	15933 Sep 20 21:54	18° m 29'08	26°39'37
	15932 Oct 27 04:15	0° M			15933 Sep 30 15:47	0∘ ⊽	
morning set	15932 Nov 12 12:49	28° M $_{5}8'02$			15933 Oct 20 03:48	0° M	
asc. node	15932 Nov 12 21:37	29° M 41'47		morning set	15933 Oct 26 17:12	11°M56'12	
	15932 Nov 13 01:16	0° ∡ ¹		max. Earth dist.	15933 Oct 30 16:53	19° M 41'04	1.34170 AU
max. Earth dist.	15932 Nov 17 04:58	8° ∡ 130′56	1.32572 AU	asc. node	15933 Oct 30 18:24	19° M 48'38	
superior conj	15932 Nov 20 12:58	15° ∡ ³37'09	1°05'32	superior conj	15933 Nov 04 12:51	29°M32'27	0°42'36
minimum elong	15932 Nov 20 10:36	15° × 24'26	1°05'55	minimum elong	15933 Nov 04 12:31 15933 Nov 04 10:48	29°M21'48	
evening rise	15932 Nov 27 11:12	0°る39'29	1 03 33	minimum clong	15933 Nov 04 18:08	0° √	0 42 32
evening rise	15932 Nov 27 03:51	0°る		evening rise	15933 Nov 11 20:52	15° × ⁷ 02'32	
	15932 Dec 13 14:35	0° ≈		evening rise	15933 Nov 19 08:31	0°る	
desc. node	15932 Dec 15 17:33 15932 Dec 15 07:42	0 ∞ 2° ≈ 16'16		evening max el	15933 Dec 01 14:46	0 3 17° る 37'17	21°19'11
evening max el	15932 Dec 13 07.42 15932 Dec 20 00:08	7°≈31'31	22°57'56	desc. node	15933 Dec 01 14:40 15933 Dec 02 04:44	17 3 3717 18° る 10'51	21 1/11
retrograde	15933 Jan 02 03:00	14°≈01'11	22 0700	retrograde	15933 Dec 13 13:13	23° ප 31'30	
evening set	15933 Jan 06 05:42	13°≈24'26		evening set	15933 Dec 15 13:13	23° る 12'40	
min. Earth dist.	15933 Jan 13 09:48		0.54747 AU	inferior conj	15933 Dec 25 03:15	19° ට 22'10	-5°48'18
inferior conj	15933 Jan 14 12:15	9° ≈ 27'52		minimum elong	15933 Dec 24 21:07	19°る30'49	
minimum elong	15933 Jan 14 15:20	9° ≈ 23'28		min. Earth dist.	15933 Dec 25 15:15		0.54399 AU
morning rise	15933 Jan 23 02:17	5°≈38'21		morning rise	15934 Jan 02 08:52	15° る 32'08	
direct	15933 Jan 26 00:10	5°≈18'35		direct	15934 Jan 06 07:50	14° る 58'12	
morning max el	15933 Feb 06 12:27	10° ≈ 51'48	20°56'42	morning max el	15934 Jan 19 04:44	21° る 13'31	22°37'49
asc. node	15933 Feb 08 20:16	13° ≈ 19′06		asc. node	15934 Jan 26 17:34	0° ≈ 16'22	
	15933 Feb 19 16:45	0°)			15934 Jan 26 13:00	0° ≈	

	1502451 10 05 50	270 01122			150245 15 20 00	240 31500	
morning set	15934 Feb 10 07:50	27°≈01'32		direct	15934 Dec 17 20:09	24° ∡ 17'06	
	15934 Feb 11 17:17	0° ∀			15934 Dec 30 08:38	0° ろ	
				morning max el	15934 Dec 31 13:22	1° る 05'42	24°27'55
superior conj	15934 Feb 17 07:33	12° 米 01'35		asc. node	15935 Jan 13 14:48	18° る 12'14	
minimum elong	15934 Feb 17 09:43	12° ¥ 13′07	1°22'11		15935 Jan 20 03:22	0° ≈	
max. Earth dist.	15934 Feb 20 22:01	19°) 35'34	1.33730 AU	morning set	15935 Jan 25 19:49	11° ≈ 43'51	
evening rise	15934 Feb 25 10:13	28° ¥ 39′01					
	15934 Feb 26 02:54	0° Υ		superior conj	15935 Feb 01 14:25	26° ≈ 33'53	1°33'04
desc. node	15934 Feb 28 05:16	3° Y 59'37		minimum elong	15935 Feb 01 15:46	26° ≈ 41'13	1°33'28
	15934 Mar 15 18:15	$0^{\circ}S$			15935 Feb 03 04:13	0° ∀	
evening max el	15934 Apr 01 04:03	20° 8 29'43	27°08'36	max. Earth dist.	15935 Feb 03 20:59	1° ¥ 30'45	1.32320 AU
retrograde	15934 Apr 14 15:40	28° 8 00'55		evening rise	15935 Feb 09 01:46	12° ¥ 25'48	
evening set	15934 Apr 21 05:53	25° 8 29'49		desc. node	15935 Feb 15 01:54	24° ∺ 05'59	
asc. node	15934 Apr 24 14:40	22° 8 20'56			15935 Feb 18 08:28	0° Y	
min. Earth dist.	15934 Apr 25 03:25	21° 8 46'23	0.65410 AU		15935 Mar 11 02:32	0°8	
inferior conj	15934 Apr 27 11:10	19° 8 09'03	0°52'26	evening max el	15935 Mar 14 16:32	3° 8 43'11	27°34'20
minimum elong	15934 Apr 27 09:49	19° 8 12'52	0°51'24	retrograde	15935 Mar 28 12:27	11° 8 13'37	
morning rise	15934 May 03 15:24	13° 8 38'24		evening set	15935 Apr 04 07:33	8° 8 50'21	
direct	15934 May 06 10:21	12° 8 56'41		min. Earth dist.	15935 Apr 08 02:12	5° 8 36'09	0.63470 AU
morning max el	15934 May 12 17:40	16° 8 13'01	18°00'12	inferior conj	15935 Apr 10 21:19	2° 8 45'48	
	15934 May 22 21:43	Π °0		minimum elong	15935 Apr 10 21:42	2° 8 44'51	0°11'50
desc. node	15934 May 27 06:27	7° Ⅱ 01'15		transit middle	15935 Apr 10 21:42	2° 8 44'51	0°11'50
morning set	15934 May 30 23:00	13° Ⅱ 02'43		transit begin	15935 Apr 10 19:34	2° 8 50'17	
	15934 Jun 10 10:42	0		transit end	15935 Apr 10 23:49	2° 8 39'26	
				asc. node	15935 Apr 11 11:58	2° 8 08'41	
superior conj	15934 Jun 14 10:30	6° ॐ 19'41	-1°55'30		15935 Apr 13 18:20	30° ŖƳ	
minimum elong	15934 Jun 14 02:14	5° 5 47'04	1°55'40	morning rise	15935 Apr 17 14:20	27° Ƴ 30'21	
max. Earth dist.	15934 Jun 17 15:53	11° © 23'32	1.45786 AU	direct	15935 Apr 20 00:53	27° Y ′01'14	
	15934 Jun 29 16:07	0 \circ Ω			15935 Apr 26 03:43	0° 8	
evening rise	15934 Jun 30 12:57	1° Ω 20′05		morning max el	15935 Apr 26 11:13	0° 8 17'52	17°46'45
greatest brilliancy	15934 Jul 13 19:11	21° Ω 25'47	-0.7m	morning set	15935 May 12 23:07	25° 8 15'32	
_	15934 Jul 19 20:42	0° m		desc. node	15935 May 14 03:18	27° 8 16'07	
asc. node	15934 Jul 21 13:46	2° m/13'12			15935 May 15 17:42	Π $^{\circ}0$	
evening max el	15934 Jul 25 13:51	6° M 46'45	19°29'38				
retrograde	15934 Aug 01 17:57	10° Mp 46'29		superior conj	15935 May 25 15:24	16° Ⅲ 32'15	
evening set	15934 Aug 05 10:35	9° Mp 27'26	205.4150	minimum elong	15935 May 25 07:40		1°23'42
inferior conj	15934 Aug 10 19:30	3°m/33'48	2°54'59	max. Earth dist.	15935 May 31 10:58	25° Ⅱ 53'39	1.44877 AU
minimum elong	15934 Aug 10 20:58	3° m/28'55	2°54'22		15935 Jun 03 01:22	0°®	
min. Earth dist.	15934 Aug 12 01:57	1° m 53'09	0.67503 AU	evening rise	15935 Jun 09 23:27	10°5643'48	
	15934 Aug 13 13:41	30°R€ 27° 007/22		4-	15935 Jun 22 20:09	0°Ω	
morning rise	15934 Aug 16 06:47	$27^{\circ}\Omega 07'32$		asc. node	15935 Jul 08 10:35 15935 Jul 08 15:53	20°Ω27'10	20°30'40
direct	15934 Aug 22 04:11	24° Ω 34'27 24° Ω 38'31		evening max el	15935 Jul 08 15.55 15935 Jul 16 16:56	20°Ω40'30 25°Ω16'28	20 30 40
desc. node	15934 Aug 23 04:38 15934 Sep 01 10:33	0°m)		retrograde evening set	15935 Jul 10 10.30 15935 Jul 20 20:09	23°Ω39'30	
morning max el	15934 Sep 01 10.33 15934 Sep 03 08:58	1° Mg 52'03	25024112	inferior conj	15935 Jul 26 02:07	$17^{\circ} \Omega 34'00$	3°07'04
morning max er	15934 Sep 24 17:11	0∘ ⊽	23 24 13	minimum elong	15935 Jul 26 02:40	$17^{\circ} \Omega 32'05$	3°06'26
morning set	15934 Oct 09 06:33	0 = 24° ₽ 13'50		min. Earth dist.	15935 Jul 26 18:45	16° Ω 36'48	0.68519 AU
morning set	15934 Oct 12 10:06	0°M		morning rise	15935 Jul 20 18:43	11° Ω 11'10	0.00319 AU
max. Earth dist.	15934 Oct 12 19:51	0°M45'38	1.36243 AU	direct	15935 Aug 05 18:44	8° Ω 49'33	
asc. node	15934 Oct 17 15:09	9°M59'34	1.50245710	desc. node	15935 Aug 10 01:59	10°Ω02'20	
use. Hode	13754 Oct 17 13.07) IIU3)34		morning max el	15935 Aug 16 19:49	15° Ω 25'19	23°57'27
superior conj	15934 Oct 19 03:50	13°ML01'17	0°13'51	morning max or	15935 Aug 28 19:26	0° my	23 37 27
minimum elong	15934 Oct 19 02:59	12°M57'03	0°14'09		15935 Nag 20 15:20 15935 Sep 17 15:31	0∘ ⊽	
behind sun begin	15934 Oct 18 23:55	12°M41'48	0 1.05	morning set	15935 Sep 21 00:41	ა — 5° ჲ 40'52	
behind sun end	15934 Oct 19 06:02	13°M12'18		max. Earth dist.	15935 Sep 24 18:46	12° ⊆ 12'03	1.38600 AU
evening rise	15934 Oct 27 03:17	29°M16'12		man. Barm dist.	10,550 бер 21 10.10	12 —12 03	1.50000110
	15934 Oct 27 11:52	0° ⊼ ⊓		superior conj	15935 Oct 02 06:20	25° ≏ 54'37	-0°19'52
evening max el	15934 Nov 13 18:22	28° ∡ ¹22'35	19°57'26	minimum elong	15935 Oct 02 07:43	26° ჲ 01'12	
<i>3</i>	15934 Nov 15 12:57	0°ප		asc. node	15935 Oct 04 11:51	0°M10′26	•
desc. node	15934 Nov 19 01:48	2° る 19'33			15935 Oct 04 09:41	0° M	
retrograde	15934 Nov 24 02:14	3° ჳ 31'32		evening rise	15935 Oct 11 03:53	13° M .13'41	
evening set	15934 Nov 26 04:18	3° ප 19'55		-	15935 Oct 20 04:10	0° ∡ ¹	
-	15934 Dec 03 21:02	30°Ŗ ⋌ ¹		evening max el	15935 Oct 27 12:11	9° ∡ 757'57	18°57'46
inferior conj	15934 Dec 04 22:53	29° ∡ ¹20'55	-4°40'49	retrograde	15935 Nov 05 06:35	14° ∡ °23′07	
minimum elong	15934 Dec 04 12:50	29° х 36′11	4°37'13	desc. node	15935 Nov 05 22:58	14° ∡ °21'35	
min. Earth dist.	15934 Dec 06 21:53	28° ₹ 09'28	0.54998 AU	evening set	15935 Nov 07 03:53	14° ∡ °11'38	
morning rise	15934 Dec 12 20:15	25° ∡ 11'39		inferior conj	15935 Nov 15 11:30	9° ∡ 54′26	-3°01'09

minimum elong	15935 Nov 15 04:04	10° ∡ 07'27	2°57'38	min. Earth dist.	15936 Oct 30 03:55	18° M .36'04	0.58410 AU
min. Earth dist.	15935 Nov 18 09:05	7° 🖈 52'57	0.56417 AU	morning rise	15936 Nov 03 03:07	15°M54'47	0.50410 AC
morning rise	15935 Nov 18 03:05 15935 Nov 23 01:28	5°×711'05	0.30417 710	direct	15936 Nov 09 11:46	14°ML08'23	
direct	15935 Nov 28 20:48	3° х 11°03		morning max el	15936 Nov 23 18:46	21°M45'34	27°21'10
morning max el	15935 Dec 13 00:14	11° ∡ 06'55	26°08'22	morning man vi	15936 Dec 01 00:44	0° ∡ 7	27 21 10
morning man er	15935 Dec 27 11:34	0°궁	20 00 22	asc. node	15936 Dec 17 09:03	26° х 04′26	
asc. node	15935 Dec 31 11:57	6° る 52'17		use. Houe	15936 Dec 19 09:53	0°ਰ	
morning set	15936 Jan 10 06:55	26°る19'49		morning set	15936 Dec 24 15:16	10° る 43'45	
	15936 Jan 11 23:25	0° ≈					
				superior conj	15936 Dec 31 12:01	25° る 51'26	1°36'35
superior conj	15936 Jan 17 00:35	11° ≈ 12'38	1°37'50	minimum elong	15936 Dec 31 11:17	25° ♂ 47'17	1°37'19
minimum elong	15936 Jan 17 00:54	11°≈14'21	1°38'29	max. Earth dist.	15936 Dec 31 09:34	25° る 37'44	1.31013 AU
max. Earth dist.	15936 Jan 18 01:58	13°≈33'50	1.31402 AU	man zarur dige.	15937 Jan 02 08:26	0°≈	1.51015116
evening rise	15936 Jan 24 01:21	26° ≈ 31'11		evening rise	15937 Jan 07 06:34	10° ≈ 48'36	
evening noe	15936 Jan 25 17:39	0° ∀		evening rise	15937 Jan 16 23:22	0° ¥	
desc. node	15936 Feb 01 22:35	13° ¥ 53′23		desc. node	15937 Jan 18 19:20	3° ¥ 13'40	
acse. noue	15936 Feb 11 18:35	0°Υ		evening max el	15937 Feb 06 03:46	28°) 05'42	26°48'17
evening max el	15936 Feb 25 01:20	16° Ƴ 19'10	27°28'45	0 , 0	15937 Feb 08 06:56	0°Υ	
retrograde	15936 Mar 10 01:05	23°Y42'55	27 20 .0	retrograde	15937 Feb 20 04:17	5° Υ 19'17	
evening set	15936 Mar 16 20:11	21° Y 34'41		evening set	15937 Feb 26 16:27	3° Y '33'08	
min. Earth dist.	15936 Mar 20 15:06	18° Y 43'15	0.61290 AU	min. Earth dist.	15937 Mar 02 17:41		0.59038 AU
inferior conj	15936 Mar 23 18:26	15° Υ 54'30		mm. Earth dist.	15937 Mar 03 21:58	30°R ₩	0.57050710
minimum elong	15936 Mar 23 21:39	15° Y 47'17	1°28'00	inferior conj	15937 Mar 05 22:42	28° ¥ 24'04	-2°57'16
asc. node	15936 Mar 28 09:17	13°Υ17'17	1 20 00	minimum elong	15937 Mar 06 05:28	28°¥10'51	
morning rise	15936 Mar 31 02:23	12 γ 13 30 10° Υ 57'16		morning rise	15937 Mar 13 22:01	23° X 47'37	2 34 39
direct	15936 Apr 02 06:04	10 γ 37 10 10° γ 37'24		asc. node		23° X 4/3/ 23° X 34'51	
	•	10° $73/24$ 14° $905'44$	17°51'16	direct	15937 Mar 15 06:40	23° X 33'27	
morning max el	15936 Apr 09 04:01		1/-51/16		15937 Mar 15 21:27		10014157
. ,	15936 Apr 20 02:23	0°8		morning max el	15937 Mar 23 16:23	27°) €25'04 0° °	18°14'57
morning set	15936 Apr 24 20:12	8° 8 26'49			15937 Mar 26 00:16		
desc. node	15936 Apr 30 00:06	17° 8 41'20		morning set	15937 Apr 08 08:24	22° Y 18'18	
	1502634 05 10 12	2721	0046111		15937 Apr 12 10:27	0°8	
superior conj	15936 May 05 19:43	27° 8 49'57		desc. node	15937 Apr 16 20:50	8° 8 11'58	
minimum elong	15936 May 05 15:33	27° 8 32'05	0°46'09				
	15936 May 07 02:15	0°II		superior conj	15937 Apr 17 22:21	10° 8 07'38	
max. Earth dist.	15936 May 13 02:21	9° ∏ 58'53	1.43335 AU	minimum elong	15937 Apr 17 21:38	10° 8 04'25	0°09'08
evening rise	15936 May 19 17:17	20° ∏ 33′08		behind sun begin	15937 Apr 17 15:27	9° 8 36'27	
	15936 May 25 20:41	0ಂ ತಾ		behind sun end	15937 Apr 18 03:49	10° 8 32'20	
	15936 Jun 16 08:49	$0^{\circ}\Omega$		max. Earth dist.	15937 Apr 25 12:32	23° 8 24'35	1.41320 AU
evening max el	15936 Jun 20 12:01	4° Ω 33'48	21°43'30		15937 Apr 29 11:31	0°Щ	
asc. node	15936 Jun 24 07:28	7° Ω 50'55		evening rise	15937 Apr 30 05:23	1° Ⅱ 12'56	
retrograde	15936 Jun 29 15:26	9° Ω 53'26			15937 May 19 06:20	0 \circ \odot	
evening set	15936 Jul 04 05:45	7° Ω 59'24		evening max el	15937 Jun 03 03:50	18° © 27'31	23°03'38
inferior conj	15936 Jul 09 11:23	1° Ω 43′28	3°07'46	asc. node	15937 Jun 11 04:26	24° © 08'42	
minimum elong	15936 Jul 09 11:00	1° Ω 44'51	3°07'02	retrograde	15937 Jun 13 11:55	24° © 31'47	
min. Earth dist.	15936 Jul 09 14:41	1° Ω 31'57	0.69054 AU	evening set	15937 Jun 18 13:42	22° © 22'37	
	15936 Jul 10 17:15	30° ₹ 5		inferior conj	15937 Jun 23 21:22	15° © 58'24	2°57'54
morning rise	15936 Jul 14 16:04	25° 5 26'33		minimum elong	15937 Jun 23 20:06	16° © 02'47	2°56'57
direct	15936 Jul 19 13:39	23° 5 21'04		min. Earth dist.	15937 Jun 23 11:40	16° 5 32'03	0.69095 AU
desc. node	15936 Jul 26 23:18	26°\$54'16		morning rise	15937 Jun 29 02:24	9° 5 49'05	
morning max el	15936 Jul 29 08:15	29° © 06'50	22°28'26	direct	15937 Jul 03 11:46	8° © 02'22	
	15936 Jul 30 04:57	$0^{\circ}\Omega$		morning max el	15937 Jul 12 00:54	12° © 57'33	21°05'08
	15936 Aug 21 12:11	0° m p		desc. node	15937 Jul 13 20:34	14° © 52'19	
morning set	15936 Aug 31 19:50	16° Mp 09'03			15937 Jul 25 12:20	$0^{\circ}\Omega$	
max. Earth dist.	15936 Sep 05 19:27	24° m 23'09	1.40980 AU	morning set	15937 Aug 11 15:43	25° Ω 38'48	
	15936 Sep 09 02:26	0∘ ত			15937 Aug 14 10:11	0° m)	
				max. Earth dist.	15937 Aug 19 01:44	7° m/26'52	1.43110 AU
superior conj	15936 Sep 13 16:07	8° ჲ 02'32	-0°56'25				
minimum elong	15936 Sep 13 20:37	8° ₽ 22'39	0°55'39	superior conj	15937 Aug 26 04:58	19° m 16'29	-1°31'55
asc. node	15936 Sep 20 08:31	20° ≏ 17'36		minimum elong	15937 Aug 26 12:17	19° m 47'29	
evening rise	15936 Sep 23 19:25	26° ≏ 46'32		Č	15937 Sep 01 10:05	0∘ <u>⊽</u>	
Ü	15936 Sep 25 12:41	0°M		evening rise	15937 Sep 06 21:43	9° ≏ 44'16	
evening max el	15936 Oct 09 17:10	22°M18'51	18°20'11	asc. node	15937 Sep 07 05:11	10° ≙ 17'37	
retrograde	15936 Oct 17 06:20	26°M09'28			15937 Sep 18 22:03	0°M	
evening set	15936 Oct 19 07:09	25°M53'23		evening max el	15937 Sep 23 05:04	5° ™ 16'00	18°02'59
desc. node	15936 Oct 22 20:15	24°M16'55		retrograde	15937 Sep 29 23:15	8°M44'47	
inferior conj	15936 Oct 26 21:52	21°M15'06	-1°18'29	evening set	15937 Oct 02 07:14	8°M 19'57	
minimum elong	15936 Oct 26 18:53	21°M21'13		inferior conj	15937 Oct 02 07:14 15937 Oct 09 04:46	3°M21'24	0°10'03
	00. 20 10.00	113			2,2, 000 0, 01.10	- 110-21-27	

minimum elong	15937 Oct 09 05:06	3°M20'37	0°10'16	evening max el	15938 Sep 06 19:50	18° ≏ 38'44	18°04'38
transit middle	15937 Oct 09 05:06	3°M20'37	0°10'16	retrograde	15938 Sep 13 05:10	21° ⊆ 59'08	10 0.50
transit begin	15937 Oct 09 02:34	3°M26'38	0 10 10	evening set	15938 Sep 15 21:35	21° ⊆ 21'59	
transit end	15937 Oct 09 07:38	3°M14'36		inferior conj	15938 Sep 22 04:27	16° £ 05'15	1°19'03
desc. node	15937 Oct 09 07:36	2°M50'53		minimum elong	15938 Sep 22 04:27	15° ⊆ 59'57	1°18'31
min. Earth dist.	15937 Oct 09 17:30 15937 Oct 12 08:03	0°ML24'10	0.60680 AU	min. Earth dist.	15938 Sep 24 21:57	13° ⊆ 3937	0.62952 AU
iiiii. Eartii uist.		0 11G24 10 30°RΩ	0.00080 AU	desc. node		13 = 10 23 11° ⊆ 30'04	0.02932 AU
	15937 Oct 12 18:53 15937 Oct 15 23:52	30 K== 27° £ 30'51			15938 Sep 26 14:58	9° £ 54'12	
morning rise	15937 Oct 13 25.32 15937 Oct 22 15:24	27 ≥ 30 31 25° ⊆ 20'14		morning rise direct	15938 Sep 28 13:03	9 ≗ 34 12 7° £ 26'23	
direct					15938 Oct 05 05:12		27052110
	15937 Nov 02 07:11	0°M	25057112	morning max el	15938 Oct 19 04:54	15° £ 24'57	27°52'18
morning max el	15937 Nov 05 21:04	3°M12'37	2/5613		15938 Oct 31 03:57	0° M 0° ₹	
1	15937 Nov 25 15:05	0° ∡ 7		1	15938 Nov 18 06:55	0° ⊀ 7	
asc. node	15937 Dec 04 06:05	15° ∡ 39'55		asc. node	15938 Nov 21 03:01	5° ∡ 731′22	
morning set	15937 Dec 08 18:59	24° ∡ ¹51'11		morning set	15938 Nov 22 15:49	8° ∡ ³36′02	
	15937 Dec 11 05:08	0°⋜		max. Earth dist.	15938 Nov 27 18:01	19° ∡ 15'46	1.31901 AU
max. Earth dist.	15937 Dec 14 16:12	7° る 34'45	1.31174 AU			_	
				superior conj	15938 Nov 30 07:14	24° ∡ ¹48'20	1°16'00
superior conj	15937 Dec 15 22:54	10° る 25'21	1°29'19	minimum elong	15938 Nov 30 05:00	24° ҂ ³36′05	1°16'29
minimum elong	15937 Dec 15 21:15	10° ප 16'11	1°29'59		15938 Dec 02 15:54	0°ප	
evening rise	15937 Dec 22 15:27	25° る 13'43		evening rise	15938 Dec 07 02:04	9° ರ 41'17	
	15937 Dec 24 21:10	0° ≈			15938 Dec 17 08:20	0° ≈	
desc. node	15938 Jan 05 16:10	21° ≈ 56'59		desc. node	15938 Dec 23 13:04	9° ≈ 49'26	
	15938 Jan 11 03:02	0° ∀		evening max el	15938 Dec 31 09:20	19° ≈ 10'34	23°57'46
evening max el	15938 Jan 18 22:08	8° ¥ 59'51	25°34'41	retrograde	15939 Jan 13 21:54	25° ≈ 53'07	
retrograde	15938 Feb 01 19:57	16° ₩ 00'00		evening set	15939 Jan 18 18:15	25°≈02'08	
evening set	15938 Feb 07 16:44	14° ¥ 41'07		min. Earth dist.	15939 Jan 24 20:51	22° ≈ 03'07	0.55353 AU
min. Earth dist.	15938 Feb 12 10:57	12°) € 00'43	0.56964 AU	inferior conj	15939 Jan 26 18:02	20° ≈ 55'43	-5°36'37
inferior conj	15938 Feb 15 06:52	10° ¥ 05'55	-4°26'19	minimum elong	15939 Jan 27 01:19	20° ≈ 44'50	5°34'55
minimum elong	15938 Feb 15 16:10	9°) 50'11	4°23'15	morning rise	15939 Feb 04 10:03	16° ≈ 59'04	
morning rise	15938 Feb 23 18:29	5°) € 50'44		direct	15939 Feb 06 21:10	16° ≈ 43'41	
direct	15938 Feb 25 19:00	5°) 38′24		asc. node	15939 Feb 17 01:24	21°≈27'59	
asc. node	15938 Mar 02 04:03	6° ¥ 39'55		morning max el	15939 Feb 17 11:13	21°≈51'22	20°07'18
morning max el	15938 Mar 06 20:11	10° X 04'10	18°59'37	morning max cr	15939 Feb 23 23:50	0° H	20 07 10
morning max cr	15938 Mar 19 21:25	0° Υ	10 3737	morning set	15939 Mar 07 12:37	21° X 11'19	
	13936 Wiai 19 21.23			morning set	13939 Wai 0/ 12.37		
morning set	15038 Mar 23 07:03	6°V36'31			15030 Mar 11 10:48	0	
morning set	15938 Mar 23 07:03	6° Ƴ 36'31			15939 Mar 11 19:48	0° Ƴ	
-			0°24'29	superior coni			0°51'55
superior conj	15938 Mar 31 19:14	23° Y 13'48	0°24'29 0°23'59	superior conj	15939 Mar 15 06:05	6° Ƴ 56'53	0°51'55
superior conj minimum elong	15938 Mar 31 19:14 15938 Mar 31 20:45	23° Y 13'48 23° Y 21'00	0°24'29 0°23'59	minimum elong	15939 Mar 15 06:05 15939 Mar 15 08:33	6° Υ '56'53 7° Υ '09'12	0°51'30
superior conj	15938 Mar 31 19:14 15938 Mar 31 20:45 15938 Apr 03 17:31	23°Y13'48 23°Y21'00 28°Y44'23		minimum elong max. Earth dist.	15939 Mar 15 06:05 15939 Mar 15 08:33 15939 Mar 21 01:57	6°Υ'56'53 7°Υ'09'12 18°Υ'17'43	
superior conj minimum elong desc. node	15938 Mar 31 19:14 15938 Mar 31 20:45 15938 Apr 03 17:31 15938 Apr 04 09:53	23°Y13'48 23°Y21'00 28°Y44'23 0°8	0°23'59	minimum elong max. Earth dist. desc. node	15939 Mar 15 06:05 15939 Mar 15 08:33 15939 Mar 21 01:57 15939 Mar 21 14:10	6°Υ56'53 7°Υ09'12 18°Υ17'43 19°Υ15'09	0°51'30
superior conj minimum elong desc. node max. Earth dist.	15938 Mar 31 19:14 15938 Mar 31 20:45 15938 Apr 03 17:31 15938 Apr 04 09:53 15938 Apr 07 19:05	23°Y13'48 23°Y21'00 28°Y44'23 0°8 6°807'46		minimum elong max. Earth dist.	15939 Mar 15 06:05 15939 Mar 15 08:33 15939 Mar 21 01:57 15939 Mar 21 14:10 15939 Mar 24 19:51	6°Y56'53 7°Y09'12 18°Y17'43 19°Y15'09 25°Y12'27	0°51'30
superior conj minimum elong desc. node	15938 Mar 31 19:14 15938 Mar 31 20:45 15938 Apr 03 17:31 15938 Apr 04 09:53 15938 Apr 07 19:05 15938 Apr 11 14:51	23°Y13'48 23°Y21'00 28°Y44'23 0°8 6°8'07'46 12°8'48'12	0°23'59	minimum elong max. Earth dist. desc. node	15939 Mar 15 06:05 15939 Mar 15 08:33 15939 Mar 21 01:57 15939 Mar 21 14:10 15939 Mar 24 19:51 15939 Mar 27 12:38	6°Y56'53 7°Y09'12 18°Y17'43 19°Y15'09 25°Y12'27 0°8	0°51'30
superior conj minimum elong desc. node max. Earth dist.	15938 Mar 31 19:14 15938 Mar 31 20:45 15938 Apr 03 17:31 15938 Apr 04 09:53 15938 Apr 07 19:05 15938 Apr 11 14:51 15938 Apr 22 05:10	23°Y13'48 23°Y21'00 28°Y44'23 0°8 6°8'07'46 12°8'48'12 0°II	0°23'59	minimum elong max. Earth dist. desc. node evening rise	15939 Mar 15 06:05 15939 Mar 15 08:33 15939 Mar 21 01:57 15939 Mar 21 14:10 15939 Mar 24 19:51 15939 Mar 27 12:38 15939 Apr 15 18:42	6°Υ56'53 7°Υ09'12 18°Υ17'43 19°Υ15'09 25°Υ12'27 0°႘ 0°Π	0°51'30 1.36795 AU
superior conj minimum elong desc. node max. Earth dist. evening rise	15938 Mar 31 19:14 15938 Mar 31 20:45 15938 Apr 03 17:31 15938 Apr 04 09:53 15938 Apr 07 19:05 15938 Apr 11 14:51 15938 Apr 22 05:10 15938 May 14 10:47	23°Y13'48 23°Y21'00 28°Y44'23 0°8 6°8'07'46 12°8'48'12 0°II 0°S	0°23'59 1.39061 AU	minimum elong max. Earth dist. desc. node evening rise	15939 Mar 15 06:05 15939 Mar 15 08:33 15939 Mar 21 01:57 15939 Mar 21 14:10 15939 Mar 24 19:51 15939 Mar 27 12:38 15939 Apr 15 18:42 15939 Apr 29 07:19	6°Υ56'53 7°Υ09'12 18°Υ17'43 19°Υ15'09 25°Υ12'27 0°႘ 0°Π 16°Π16'58	0°51'30
superior conj minimum elong desc. node max. Earth dist. evening rise	15938 Mar 31 19:14 15938 Mar 31 20:45 15938 Apr 03 17:31 15938 Apr 04 09:53 15938 Apr 07 19:05 15938 Apr 11 14:51 15938 Apr 22 05:10 15938 May 14 10:47 15938 May 16 17:41	23°Y13'48 23°Y21'00 28°Y44'23 0°8 6°8'07'46 12°8'48'12 0°II 0°9 2°\$22'38	0°23'59	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde	15939 Mar 15 06:05 15939 Mar 15 08:33 15939 Mar 21 01:57 15939 Mar 21 14:10 15939 Mar 24 19:51 15939 Mar 27 12:38 15939 Apr 15 18:42 15939 Apr 29 07:19 15939 May 11 17:40	6°Υ56'53 7°Υ09'12 18°Υ17'43 19°Υ15'09 25°Υ12'27 0°Β 0°Π 16°Π16'58 23°Π27'16	0°51'30 1.36795 AU
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde	15938 Mar 31 19:14 15938 Mar 31 20:45 15938 Apr 03 17:31 15938 Apr 04 09:53 15938 Apr 07 19:05 15938 Apr 11 14:51 15938 Apr 22 05:10 15938 May 14 10:47 15938 May 16 17:41 15938 May 28 05:03	23°Y13'48 23°Y21'00 28°Y44'23 0°8 6°8'07'46 12°8'48'12 0°II 0°II 0°II 2°I2'38 9°I3'38	0°23'59 1.39061 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node	15939 Mar 15 06:05 15939 Mar 15 08:33 15939 Mar 21 01:57 15939 Mar 21 14:10 15939 Mar 24 19:51 15939 Mar 27 12:38 15939 Apr 15 18:42 15939 Apr 29 07:19 15939 May 11 17:40 15939 May 15 22:39	6°Υ56'53 7°Υ09'12 18°Υ17'43 19°Υ15'09 25°Υ12'27 0°Β 0°Π 16°Π16'58 23°Π27'16 22°Π15'23	0°51'30 1.36795 AU
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node	15938 Mar 31 19:14 15938 Mar 31 20:45 15938 Apr 03 17:31 15938 Apr 04 09:53 15938 Apr 07 19:05 15938 Apr 11 14:51 15938 Apr 22 05:10 15938 May 14 10:47 15938 May 16 17:41 15938 May 28 05:03 15938 May 29 01:31	23°Y13'48 23°Y21'00 28°Y44'23 0°8 6°8'07'46 12°8'48'12 0°II 0°© 2°©22'38 9°©05'13 9°©02'07	0°23'59 1.39061 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set	15939 Mar 15 06:05 15939 Mar 15 08:33 15939 Mar 21 01:57 15939 Mar 21 14:10 15939 Mar 24 19:51 15939 Mar 27 12:38 15939 Apr 15 18:42 15939 Apr 29 07:19 15939 May 11 17:40 15939 May 15 22:39 15939 May 17 18:05	6°Υ56'53 7°Υ09'12 18°Υ17'43 19°Υ15'09 25°Υ12'27 0°႘ 0°Π 16°Π16'58 23°Π27'16 22°Π15'23 20°Π57'41	0°51'30 1.36795 AU 25°40'08
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superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong	15938 Mar 31 19:14 15938 Mar 31 20:45 15938 Apr 03 17:31 15938 Apr 04 09:53 15938 Apr 07 19:05 15938 Apr 11 14:51 15938 Apr 22 05:10 15938 May 14 10:47 15938 May 28 05:03 15938 May 29 01:31 15938 Jun 02 18:23 15938 Jun 07 07:28 15938 Jun 08 06:06 15938 Jun 08 04:11 15938 Jun 08 04:11	23°Y13'48 23°Y21'00 28°Y44'23 0°8 6°807'46 12°848'12 0°II 0°9 2°922'38 9°905'13 9°902'07 6°943'51 1°930'31 0°914'25 0°920'51 30°RII	0°23'59 1.39061 AU 24°24'54 0.68653 AU 2°37'32	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	15939 Mar 15 06:05 15939 Mar 15 08:33 15939 Mar 21 01:57 15939 Mar 21 14:10 15939 Mar 24 19:51 15939 Mar 27 12:38 15939 Apr 15 18:42 15939 Apr 29 07:19 15939 May 11 17:40 15939 May 15 22:39 15939 May 17 18:05 15939 May 21 23:58 15939 May 23 11:36 15939 May 23 09:25 15939 May 29 01:16 15939 Jun 01 11:53	6°Υ56'53 7°Υ09'12 18°Υ17'43 19°Υ15'09 25°Υ12'27 0°℧ 0°Π 16°Π16'58 23°Π27'16 22°Π15'23 20°Π57'41 16°Π20'58 14°Π27'13 14°Π34'11 8°Π37'12 7°Π29'19	0°51'30 1.36795 AU 25°40'08 0.67741 AU 2°06'16 2°04'56
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superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	15938 Mar 31 19:14 15938 Mar 31 20:45 15938 Apr 03 17:31 15938 Apr 04 09:53 15938 Apr 07 19:05 15938 Apr 11 14:51 15938 Apr 22 05:10 15938 May 14 10:47 15938 May 16 17:41 15938 May 28 05:03 15938 May 29 01:31 15938 Jun 02 18:23 15938 Jun 07 07:28 15938 Jun 08 06:06 15938 Jun 08 04:11 15938 Jun 08 10:23 15938 Jun 08 10:23 15938 Jun 13 14:06 15938 Jun 17 11:44	23°Y13'48 23°Y21'00 28°Y44'23 0°8 6°807'46 12°848'12 0°II 0°S 2°S22'38 9°S05'13 9°S02'07 6°S43'51 1°S30'31 0°S14'25 0°S20'51 30°RII 24°II14'05 22°II47'02	0°23'59 1.39061 AU 24°24'54 0.68653 AU 2°37'32 2°36'21	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	15939 Mar 15 06:05 15939 Mar 15 08:33 15939 Mar 21 01:57 15939 Mar 21 14:10 15939 Mar 24 19:51 15939 Mar 27 12:38 15939 Apr 15 18:42 15939 Apr 29 07:19 15939 May 11 17:40 15939 May 15 22:39 15939 May 21 23:58 15939 May 23 11:36 15939 May 23 09:25 15939 May 29 01:16 15939 Jun 01 11:53 15939 Jun 08 06:37 15939 Jun 17 14:49	6°Υ56'53 7°Υ09'12 18°Υ17'43 19°Υ15'09 25°Υ12'27 0°႘ 0°	0°51'30 1.36795 AU 25°40'08 0.67741 AU 2°06'16 2°04'56
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise	15938 Mar 31 19:14 15938 Mar 31 20:45 15938 Apr 03 17:31 15938 Apr 04 09:53 15938 Apr 07 19:05 15938 Apr 11 14:51 15938 Apr 22 05:10 15938 May 14 10:47 15938 May 16 17:41 15938 May 28 05:03 15938 May 29 01:31 15938 Jun 02 18:23 15938 Jun 07 07:28 15938 Jun 08 06:06 15938 Jun 08 06:06 15938 Jun 08 04:11 15938 Jun 08 10:23 15938 Jun 13 14:06 15938 Jun 17 11:44 15938 Jun 25 00:06	23°Y13'48 23°Y21'00 28°Y44'23 0°8 6°8'07'46 12°8'48'12 0°II 0°S 2°S22'38 9°S05'13 9°S02'07 6°S43'51 1°S30'31 0°S14'25 0°S20'51 30°RII 24°II14'05 22°II47'02 26°II58'37	0°23'59 1.39061 AU 24°24'54 0.68653 AU 2°37'32 2°36'21	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	15939 Mar 15 06:05 15939 Mar 15 08:33 15939 Mar 21 01:57 15939 Mar 21 14:10 15939 Mar 24 19:51 15939 Mar 27 12:38 15939 Apr 15 18:42 15939 Apr 29 07:19 15939 May 11 17:40 15939 May 15 22:39 15939 May 21 23:58 15939 May 23 11:36 15939 May 23 09:25 15939 May 29 01:16 15939 Jun 01 11:53 15939 Jun 08 06:37 15939 Jun 17 14:49 15939 Jun 21 13:58	6°Υ56'53 7°Υ09'12 18°Υ17'43 19°Υ15'09 25°Υ12'27 0°႘ 0°Π 16°Π16'58 23°Π27'16 22°Π15'23 20°Π57'41 16°Π20'58 14°Π34'11 8°Π37'12 7°Π29'19 11°Π09'02 23°Π01'16 28°Π54'25	0°51'30 1.36795 AU 25°40'08 0.67741 AU 2°06'16 2°04'56
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	15938 Mar 31 19:14 15938 Mar 31 20:45 15938 Apr 03 17:31 15938 Apr 04 09:53 15938 Apr 07 19:05 15938 Apr 11 14:51 15938 Apr 22 05:10 15938 May 14 10:47 15938 May 16 17:41 15938 May 28 05:03 15938 May 29 01:31 15938 Jun 02 18:23 15938 Jun 07 07:28 15938 Jun 08 06:06 15938 Jun 08 04:11 15938 Jun 08 10:23 15938 Jun 08 10:23 15938 Jun 13 14:06 15938 Jun 17 11:44	23°Y13'48 23°Y21'00 28°Y44'23 0°8 6°807'46 12°848'12 0°II 0°S 2°S22'38 9°S05'13 9°S02'07 6°S43'51 1°S30'31 0°S14'25 0°S20'51 30°RII 24°II14'05 22°II47'02 26°II58'37 0°S	0°23'59 1.39061 AU 24°24'54 0.68653 AU 2°37'32 2°36'21	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	15939 Mar 15 06:05 15939 Mar 15 08:33 15939 Mar 21 01:57 15939 Mar 21 14:10 15939 Mar 24 19:51 15939 Mar 27 12:38 15939 Apr 15 18:42 15939 Apr 29 07:19 15939 May 11 17:40 15939 May 15 22:39 15939 May 17 18:05 15939 May 21 23:58 15939 May 23 11:36 15939 May 23 09:25 15939 May 29 01:16 15939 Jun 01 11:53 15939 Jun 08 06:37 15939 Jun 17 14:49 15939 Jun 21 13:58 15939 Jun 22 07:18	6°Y56'53 7°Y09'12 18°Y17'43 19°Y15'09 25°Y12'27 0°℧ 0°爪 16°爪16'58 23°爪27'16 22°爪15'23 20°爪57'41 16°爪20'58 14°爪27'13 14°爪34'11 8°爪37'12 7°爪29'19 11°爪09'02 23°爪01'16 28°爪54'25 0°愛	0°51'30 1.36795 AU 25°40'08 0.67741 AU 2°06'16 2°04'56
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	15938 Mar 31 19:14 15938 Mar 31 20:45 15938 Apr 03 17:31 15938 Apr 04 09:53 15938 Apr 07 19:05 15938 Apr 11 14:51 15938 Apr 22 05:10 15938 May 14 10:47 15938 May 16 17:41 15938 May 28 05:03 15938 May 29 01:31 15938 Jun 02 18:23 15938 Jun 07 07:28 15938 Jun 08 06:06 15938 Jun 08 06:06 15938 Jun 08 04:11 15938 Jun 08 10:23 15938 Jun 13 14:06 15938 Jun 17 11:44 15938 Jun 25 00:06	23°Y13'48 23°Y21'00 28°Y44'23 0°8 6°807'46 12°848'12 0°II 0°9 2°922'38 9°905'13 9°902'07 6°943'51 1°930'31 0°914'25 0°920'51 30°RII 24°I14'05 22°I147'02 26°II58'37 0°9 3°938'57	0°23'59 1.39061 AU 24°24'54 0.68653 AU 2°37'32 2°36'21	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	15939 Mar 15 06:05 15939 Mar 15 08:33 15939 Mar 21 01:57 15939 Mar 21 14:10 15939 Mar 24 19:51 15939 Mar 27 12:38 15939 Apr 15 18:42 15939 Apr 29 07:19 15939 May 11 17:40 15939 May 15 22:39 15939 May 21 23:58 15939 May 23 11:36 15939 May 23 09:25 15939 May 29 01:16 15939 Jun 01 11:53 15939 Jun 08 06:37 15939 Jun 17 14:49 15939 Jun 21 13:58	6°Y56'53 7°Y09'12 18°Y17'43 19°Y15'09 25°Y12'27 0°8 0°II 16°II16'58 23°II27'16 22°II15'23 20°II57'41 16°II20'58 14°II27'13 14°II34'11 8°II37'12 7°II29'19 11°II09'02 23°II01'16 28°II54'25 0°S 13°S42'33	0°51'30 1.36795 AU 25°40'08 0.67741 AU 2°06'16 2°04'56
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superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	15938 Mar 31 19:14 15938 Mar 31 20:45 15938 Apr 03 17:31 15938 Apr 04 09:53 15938 Apr 07 19:05 15938 Apr 11 14:51 15938 Apr 22 05:10 15938 May 14 10:47 15938 May 16 17:41 15938 May 28 05:03 15938 May 29 01:31 15938 Jun 02 18:23 15938 Jun 07 07:28 15938 Jun 08 06:06 15938 Jun 08 04:11 15938 Jun 08 10:23 15938 Jun 13 14:06 15938 Jun 13 14:06 15938 Jun 25 00:06 15938 Jun 27 19:05 15938 Jun 30 17:45 15938 Jun 30 17:45 15938 Jun 18 21:17 15938 Jun 21 20:38 15938 Aug 01 14:43	23°Y13'48 23°Y21'00 28°Y44'23 0°8 6°807'46 12°848'12 0°II 0°S 2°S22'38 9°S05'13 9°S02'07 6°S43'51 1°S30'31 0°S14'25 0°S20'51 30°RII 24°I14'05 22°II47'02 26°II58'37 0°S 3°S38'57 0°S 4°\O32'41 21°\O17'44	0°23'59 1.39061 AU 24°24'54 0.68653 AU 2°37'32 2°36'21 19°53'18 1.44757 AU -2°00'14	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	15939 Mar 15 06:05 15939 Mar 21 01:57 15939 Mar 21 14:10 15939 Mar 24 19:51 15939 Mar 27 12:38 15939 Apr 15 18:42 15939 Apr 29 07:19 15939 May 11 17:40 15939 May 15 22:39 15939 May 21 23:58 15939 May 21 23:58 15939 May 23 09:25 15939 May 23 09:25 15939 May 29 01:16 15939 Jun 01 11:53 15939 Jun 08 06:37 15939 Jun 01 01:53 15939 Jun 17 14:49 15939 Jun 21 13:58 15939 Jun 22 07:18 15939 Jun 17 14:49 15939 Jun 17 14:49 15939 Jun 17 14:49 15939 Jun 18:58 15939 Jun 19:58	6°Y56'53 7°Y09'12 18°Y17'43 19°Y15'09 25°Y12'27 0°႘ 0°Π 16°Π16'58 23°Π27'16 22°Π15'23 20°Π57'41 16°Π20'58 14°Π27'13 14°Π34'11 8°Π37'12 7°Π29'19 11°Π09'02 23°Π01'16 28°Π54'25 0°© 13°©42'33 0°Ω 5°Ω41'50 8°Ω59'22 9°Ω05'57 0°™	0°51'30 1.36795 AU 25°40'08 0.67741 AU 2°06'16 2°04'56 18°56'23 -0.7m
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	15938 Mar 31 19:14 15938 Mar 31 20:45 15938 Apr 03 17:31 15938 Apr 04 09:53 15938 Apr 07 19:05 15938 Apr 11 14:51 15938 Apr 22 05:10 15938 May 14 10:47 15938 May 16 17:41 15938 May 28 05:03 15938 May 29 01:31 15938 Jun 02 18:23 15938 Jun 07 07:28 15938 Jun 08 06:06 15938 Jun 08 04:11 15938 Jun 08 10:23 15938 Jun 13 14:06 15938 Jun 13 14:06 15938 Jun 25 00:06 15938 Jun 27 19:05 15938 Jun 30 17:45 15938 Jun 30 17:45 15938 Jun 18 21:17 15938 Jun 18 21:17 15938 Jun 27 19:05 15938 Jun 18 21:17 15938 Jun 18 21:17 15938 Jun 27 01:31 15938 Aug 06 18:19 15938 Aug 07 01:31 15938 Aug 07 01:16	23°Y13'48 23°Y21'00 28°Y44'23 0°8 6°807'46 12°848'12 0°II 0°S 2°S22'38 9°S05'13 9°S02'07 6°S43'51 1°S30'31 0°S14'25 0°S20'51 30°RII 24°I14'05 22°II47'02 26°II58'37 0°S 3°S38'57 0°S 4°\O32'41 21°\O17'44 29°\O31'55 0°\O00059 0°\O00059	0°23'59 1.39061 AU 24°24'54 0.68653 AU 2°37'32 2°36'21 19°53'18 1.44757 AU -2°00'14	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 evening rise	15939 Mar 15 06:05 15939 Mar 21 01:57 15939 Mar 21 14:10 15939 Mar 24 19:51 15939 Mar 27 12:38 15939 Apr 15 18:42 15939 Apr 29 07:19 15939 May 11 17:40 15939 May 15 22:39 15939 May 21 23:58 15939 May 21 23:58 15939 May 23 09:25 15939 May 23 09:25 15939 May 29 01:16 15939 Jun 01 11:53 15939 Jun 01 11:53 15939 Jun 01 01:53 15939 Jun 17 14:49 15939 Jun 21 13:58 15939 Jun 22 07:18 15939 Jun 17 14:49 15939 Jun 17 14:49 15939 Jun 17 14:49 15939 Jun 17 14:49 15939 Jun 17 13:58 15939 Jun 17 13:58 15939 Jun 17 13:58 15939 Jun 17 13:58	6°Y56'53 7°Y09'12 18°Y17'43 19°Y15'09 25°Y12'27 0°႘ 0°Π 16°Π16'58 23°Π27'16 22°Π15'23 20°Π57'41 16°Π20'58 14°Π20'58 14°Π27'13 14°Π34'11 8°Π37'12 7°Π29'19 11°Π09'02 23°Π01'16 28°Π54'25 0°© 13°©42'33 0°Ω 5°Ω41'50 8°Ω59'22 9°Ω05'57 0°™ 3°™03'18	0°51'30 1.36795 AU 25°40'08 0.67741 AU 2°06'16 2°04'56 18°56'23 -0.7m
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	15938 Mar 31 19:14 15938 Mar 31 20:45 15938 Apr 03 17:31 15938 Apr 04 09:53 15938 Apr 07 19:05 15938 Apr 11 14:51 15938 Apr 22 05:10 15938 May 14 10:47 15938 May 16 17:41 15938 May 28 05:03 15938 May 29 01:31 15938 Jun 02 18:23 15938 Jun 07 07:28 15938 Jun 08 06:06 15938 Jun 08 04:11 15938 Jun 08 04:11 15938 Jun 08 10:23 15938 Jun 13 14:06 15938 Jun 17 11:44 15938 Jun 25 00:06 15938 Jun 27 19:05 15938 Jun 30 17:45 15938 Jun 18 21:17 15938 Jul 18 21:17 15938 Jul 21 20:38 15938 Aug 07 01:31 15938 Aug 07 01:31 15938 Aug 07 01:16 15938 Aug 07 01:16	23°Y13'48 23°Y21'00 28°Y44'23 0°8 6°807'46 12°848'12 0°11 0°9 2°922'38 9°905'13 9°902'07 6°943'51 1°930'31 0°914'25 0°920'51 30°R11 24°114'05 22°147'02 26°158'37 0°9 3°938'57 0°10 4°1032'41 21°101'44 29°1031'55 0°1000'59 0°10 21°1053'33	0°23'59 1.39061 AU 24°24'54 0.68653 AU 2°37'32 2°36'21 19°53'18 1.44757 AU -2°00'14	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 evening rise	15939 Mar 15 06:05 15939 Mar 21 01:57 15939 Mar 21 14:10 15939 Mar 24 19:51 15939 Mar 27 12:38 15939 Apr 15 18:42 15939 Apr 29 07:19 15939 May 11 17:40 15939 May 15 22:39 15939 May 21 23:58 15939 May 22 13:58 15939 May 23 09:25 15939 May 29 01:16 15939 Jun 01 11:53 15939 Jun 08 06:37 15939 Jun 01 11:53 15939 Jun 17 14:49 15939 Jun 21 13:58 15939 Jun 22 07:18 15939 Jun 17 14:49 15939 Jun 17 14:49 15939 Jun 17 14:49 15939 Jun 17 13:58 15939 Jun 17 14:49 15939 Jun 17 13:58 15939 Jun 17 13:04 15939 Jun 17 13:04 15939 Jun 17 13:04 15939 Jun 30 16:41 15939 Aug 01 14:08 15939 Aug 11 12:33	6°Y56'53 7°Y09'12 18°Y17'43 19°Y15'09 25°Y12'27 0°8 0°II 16°II16'58 23°II27'16 22°II5'23 20°II5'23 20°II5'41 16°II20'58 14°II34'11 8°II37'12 7°II29'19 11°II09'02 23°II01'16 28°II54'25 0°I 13°II4'33 0°I 5°II4'50 8°II5'22 9°II6'50 8°II5'22 9°II6'50 8°II5'22 9°II6'50 8°II5'22 9°II6'50 8°II6'50	0°51'30 1.36795 AU 25°40'08 0.67741 AU 2°06'16 2°04'56 18°56'23 -0.7m 1.45747 AU -2°13'50 2°14'29

				_ (= -),		,	F
retrograde	15939 Aug 27 19:57	5° ≙ 44'12		greatest brilliancy	15940 Jul 22 10:57	29° Ω 29'50	-0.8m
evening set	15939 Aug 30 21:21	4° £ 52'01		2	15940 Jul 22 18:55	0° m/p	
Ü	15939 Sep 05 03:13	30°R, M⊅		asc. node	15940 Jul 28 19:16	8° m) 46'07	
inferior conj	15939 Sep 05 16:59	29° m 19'21	2°08'59	evening max el	15940 Aug 03 20:48	16° Mp 07'43	19°01'04
minimum elong	15939 Sep 05 19:19	29° m 12'25	2°08'16	retrograde	15940 Aug 10 16:04	19° m 51'44	
min. Earth dist.	15939 Sep 07 21:26	26° m/ 44'13	0.65009 AU	evening set	15940 Aug 14 02:55	18° m) 42'48	
morning rise	15939 Sep 11 15:55	22° m 56'52		inferior conj	15940 Aug 19 14:48	12° m/ 56'12	2°42'20
desc. node	15939 Sep 13 12:21	21° m)39'19		minimum elong	15940 Aug 19 16:43	12° m/50'04	2°41'40
direct	15939 Sep 18 03:22	20° m/20'30		min. Earth dist.	15940 Aug 21 05:15	10° m 53'14	0.66709 AU
morning max el	15939 Oct 01 15:45	28° m) 14'17	27°14'04	morning rise	15940 Aug 25 05:44	6° m) 29'32	
morning man or	15939 Oct 03 08:23	0° ⊡	2, 1.0.	desc. node	15940 Aug 30 09:43	3° M) 56'47	
	15939 Oct 24 22:46	0° M ₊		direct	15940 Aug 31 08:51	3° m 53'11	
morning set	15939 Nov 06 03:05	21°M52'54		morning max el	15940 Sep 13 03:22	11° m) 28'53	26°09'34
asc. node	15939 Nov 07 23:53	25°M33'45		morning mun er	15940 Sep 27 23:14	0° ⊽	20 0, 5.
use. Houe	15939 Nov 10 04:34	0° ⊼ ¹			15940 Oct 16 13:26	0° ™	
max. Earth dist.	15939 Nov 10 11:49		1.33193 AU	morning set	15940 Oct 19 01:36	4°MJ35'01	
max. Earth dist.	13737 1101 10 11.47	0 7 37 12	1.55175710	max. Earth dist.	15940 Oct 22 20:00	11°M44'03	1.35003 AU
superior conj	15939 Nov 14 10:54	8° ∡ 755'09	0°56'33	asc. node	15940 Oct 24 20:41	15°M42'48	1.55005710
minimum elong	15939 Nov 14 10:34 15939 Nov 14 08:35	8° ∡ 42'49	0°56'52	asc. node	13940 OCt 24 20.41	13 11642 40	
evening rise	15939 Nov 21 12:38	24° × ⁷ 07'16	0 30 32	superior conj	15940 Oct 28 07:23	22°M39'56	0°31'04
evening rise	15939 Nov 24 07:50	24 メ ・0/10 0°る		minimum elong	15940 Oct 28 05:43	22°M31'27	0°31'20
daga mada	15939 Nov 24 07:30 15939 Dec 10 10:01	0 3 26° る 33'03		minimum ciong		0° x ¹	0 31 20
desc. node	15939 Dec 10 10:01 15939 Dec 12 19:39	20° ろ 05'56	2201.412.4		15940 Oct 31 20:17	8° ∡ ¹27'13	
evening max el			22-14-24	evening rise	15940 Nov 04 21:14		
. 1	15939 Dec 13 18:38	0°≈ 5022101			15940 Nov 16 07:47	0°る	20041140
retrograde	15939 Dec 25 11:43	5°≈22'01		evening max el	15940 Nov 23 15:05	9° る 25'16	20-41-48
evening set	15939 Dec 29 01:12	4°≈54'00	0.54402.441	desc. node	15940 Nov 26 07:04	11°る45'42	
min. Earth dist.	15940 Jan 06 02:27	1°≈16'48	0.54483 AU	retrograde	15940 Dec 04 21:55	15° る 01'33	
inferior conj	15940 Jan 06 13:00	1°≈02'04		evening set	15940 Dec 07 08:39	14°る46'55	5005140
minimum elong	15940 Jan 06 12:03	1°≈03'23	6°00'58	inferior conj	15940 Dec 16 04:10	10°る53'57	
	15940 Jan 08 09:52	30°Rる		minimum elong	15940 Dec 15 19:24	11° ට 06'36	
morning rise	15940 Jan 14 23:52	27° ට 14'52		min. Earth dist.	15940 Dec 17 07:55	10° ට 13'55	0.54534 AU
direct	15940 Jan 18 08:06	26° る 49'57		morning rise	15940 Dec 24 06:02	6° 云 58'07	
	15940 Jan 27 05:58	0° ≈		direct	15940 Dec 28 15:48	6° ට 16'23	
morning max el	15940 Jan 30 11:11	2° ≈ 41'16	21°37'50	morning max el	15941 Jan 10 23:14	12° る 46'53	23°24'43
asc. node	15940 Feb 03 22:43	7° ≈ 43'10		asc. node	15941 Jan 20 19:59	25° පි 07'13	
	15940 Feb 17 01:51	0° ∀			15941 Jan 23 20:09	0° ≈	
morning set	15940 Feb 19 22:21	5° ¥ 53'52		morning set	15941 Feb 03 10:04	20° ≈ 37'54	
					15941 Feb 07 17:54	0° ∀	
superior conj	15940 Feb 27 03:02	21° ∺ 05'42					
minimum elong	15940 Feb 27 05:30	21° ¥ 18'33	1°12'48	superior conj	15941 Feb 10 07:03	5° ¥ 31'47	1°27'31
	15940 Mar 02 11:23	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	15941 Feb 10 08:55	5°) 41′47	1°27'45
max. Earth dist.	15940 Mar 02 13:18	0° Υ 09'38	1.34741 AU	max. Earth dist.	15941 Feb 13 07:46	11° 米 59'57	1.33065 AU
evening rise	15940 Mar 06 16:53	8° Ƴ 15'14		evening rise	15941 Feb 18 02:35	21°) 48′10	
desc. node	15940 Mar 07 10:47	9° Ƴ 39'51		desc. node	15941 Feb 22 07:27	29° ¥ 54'22	
	15940 Mar 19 03:44	$_{0\circ}$ 8			15941 Feb 22 08:39	0° Y	
	15940 Apr 10 19:49	Π $^{\circ}0$			15941 Mar 12 23:05	9° 8	
evening max el	15940 Apr 10 21:03	0°Ⅲ03′00	26°41'56	evening max el	15941 Mar 24 10:14	13° 8 30'59	27°22'55
retrograde	15940 Apr 24 00:55	7° Ⅱ 29'40		retrograde	15941 Apr 07 01:59	21° 8 03'26	
evening set	15940 Apr 30 10:58	4° Ⅱ 57'01		evening set	15941 Apr 13 18:54	18° 8 34'23	
asc. node	15940 May 01 19:51	3° Ⅱ 44'31		min. Earth dist.	15941 Apr 17 14:46	15° 8 04'17	0.64626 AU
min. Earth dist.	15940 May 04 11:00	0° Ⅱ 55'16	0.66383 AU	asc. node	15941 Apr 18 17:05	13° 8 53'54	
	15940 May 05 05:48	30° ₹ 8		inferior conj	15941 Apr 20 03:44	12° 8 19'27	0°26'59
inferior conj	15940 May 06 11:40	28° 8 30'54	1°23'07	minimum elong	15941 Apr 20 02:59	12° 8 21'29	0°26'13
minimum elong	15940 May 06 09:47	28° 8 36'29	1°21'52	morning rise	15941 Apr 26 13:09	6° 8 55'14	
morning rise	15940 May 12 09:48	22° 8 52'51		direct	15941 Apr 29 04:19	6° 8 19'24	
direct	15940 May 15 10:13	22° 8 02'21		morning max el	15941 May 05 11:58	9° 8 34'22	17°52'21
morning max el	15940 May 21 19:20	25° 8 23'23	18°15'50		15941 May 19 14:24	$\Pi^{\circ}0$	
	15940 May 25 19:16	Π°		desc. node	15941 May 21 08:43	2° Ⅱ 55'57	
desc. node	15940 Jun 03 11:48	12° Ⅱ 49'15		morning set	15941 May 22 20:45	5° Ⅱ 26′03	
morning set	15940 Jun 10 11:19	23° Ⅱ 55′04					
-	15940 Jun 14 06:58	0ಂತ		superior conj	15941 Jun 05 14:11	27° Ⅱ 52'47	-1°43'21
				minimum elong	15941 Jun 05 05:31	27° Ⅱ 18'13	1°43'18
superior conj	15940 Jun 25 20:17	18°511'15	-2°07'40	-	15941 Jun 06 22:09	0ංම	
minimum elong	15940 Jun 25 14:24	17°5548'18		max. Earth dist.	15941 Jun 10 01:10	4°956'19	1.45485 AU
max. Earth dist.	15940 Jun 27 05:23	20°520'21	1.45991 AU	evening rise	15941 Jun 21 11:34	22°538'58	
	15940 Jul 03 10:19	$0^{\circ}\Omega$		-	15941 Jun 26 07:26	$0^{\circ}\Omega$	
evening rise	15940 Jul 11 21:46	13° Ω 11′20		greatest brilliancy	15941 Jul 06 04:21	14° Ω 41'23	-0.6m
Č		-		-			

asc. node	15941 Jul 15 16:01	27° Ω 22'55		max. Earth dist.	15942 May 23 18:23	10°π15′//7	1.44286 AU
evening max el	15941 Jul 18 02:14	0° m 00'30	19°53'55	max. Earth dist.	15942 May 30 13:54	0°95	1.44200 AU
evening max er	15941 Jul 18 02:02	0°m)	17 33 33	evening rise	15942 May 31 23:20	2° © 09'15	
retrograde	15941 Jul 25 14:40	رابات 4° الله 14'57		evening rise	15942 Jun 19 20:13	0°Ω	
evening set	15941 Jul 29 11:38	2° Mp 48'23		evening max el	15942 Jul 01 01:45	13° Ω 54'47	21°00'29
evening sec	15941 Aug 01 07:56	30°RΩ		asc. node	15942 Jul 02 12:51	15°Ω17'43	21 002)
inferior conj	15941 Aug 03 18:57	26° Ω 49'24	3°01'35	retrograde	15942 Jul 09 13:39	18° Ω 48'50	
minimum elong	15941 Aug 03 20:03	26°Ω45'40	3°00'58	evening set	15942 Jul 13 21:26	17° Ω 04'42	
min. Earth dist.	15941 Aug 04 19:29	25°Ω26'38	0.67990 AU	inferior conj	15942 Jul 19 02:59	10°Ω54'42	3°08'41
morning rise	15941 Aug 09 04:01	20° Ω 23'55		minimum elong	15942 Jul 19 03:08	10° Ω 54'11	3°08'02
direct	15941 Aug 14 20:32	17° Ω 54'59		min. Earth dist.	15942 Jul 19 14:00	10° Ω 16′29	0.68806 AU
desc. node	15941 Aug 17 07:05	18° Ω 18′26		morning rise	15942 Jul 24 08:33	4° Ω 33'57	
morning max el	15941 Aug 26 14:23	24° Ω 57'04	24°48'03	direct	15942 Jul 29 13:18	2° Ω 18′28	
	15941 Aug 31 04:09	0° m		desc. node	15942 Aug 04 04:26	4° Ω 22'56	
	15941 Sep 21 10:11	0∘ ⊽		morning max el	15942 Aug 09 01:29	8° Ω 33'48	23°19'15
morning set	15941 Oct 01 07:18	16° ≏ 32'18			15942 Aug 25 21:36	0° ™	
max. Earth dist.	15941 Oct 04 20:14	22° ჲ 53'01	1.37219 AU	morning set	15942 Sep 12 16:03	27° m 35'29	
	15941 Oct 08 15:56	0° M			15942 Sep 14 02:29	0∘ ⊽	
				max. Earth dist.	15942 Sep 16 18:48	4° £ 34'50	1.39628 AU
superior conj	15941 Oct 11 17:29	5°M54'17	0°00'02				
minimum elong	15941 Oct 11 17:27	5°M54'08	0°00'26	superior conj	15942 Sep 24 13:28	18° ჲ 30′01	-0°35'12
behind sun begin	15941 Oct 11 10:51	5°M21'57		minimum elong	15942 Sep 24 16:06	18° ≏ 42'12	0°34'33
behind sun end	15941 Oct 12 00:03	6°M26′24		asc. node	15942 Sep 28 14:05	26° ≏ 03'48	
asc. node	15941 Oct 11 17:24	5° ™ 53'52			15942 Sep 30 15:26	0° M	
evening rise	15941 Oct 20 01:31	22°M34'27		evening rise	15942 Oct 03 22:43	6°M22'35	
	15941 Oct 23 19:18	0° ∡ ¹			15942 Oct 17 19:26	0°⊀	
evening max el	15941 Nov 06 00:56	20° ∡ ³31'38	19°29'20	evening max el	15942 Oct 20 00:08	2° ≯ 28′00	18°39'12
desc. node	15941 Nov 13 04:12	25° ₹ 02'11		retrograde	15942 Oct 28 04:40	6° ≯ 36'30	
retrograde	15941 Nov 15 16:27	25° ∡ °21′17		evening set	15942 Oct 30 02:55	6° х 23′31	
evening set	15941 Nov 17 14:50	25° ∡ 10'31		desc. node	15942 Oct 31 01:25	6° ₰ 08'17	
inferior conj	15941 Nov 26 05:59	21° ∡ °04'51		inferior conj	15942 Nov 07 03:42	1° ∡ 757'40	
minimum elong	15941 Nov 25 20:31	21° ∡ °20′05	3°56'41	minimum elong	15942 Nov 06 22:11	2° ∡ 08'00	2°13'44
min. Earth dist.	15941 Nov 28 16:30	19° ∡ ³30'49	0.55508 AU		15942 Nov 09 18:36	30°RM₊	
morning rise	15941 Dec 04 00:10	16° ∡ °41′50		min. Earth dist.	15942 Nov 10 06:42	29°M38'05	0.57220 AU
direct	15941 Dec 09 08:59	15° ∡ ³36′57		morning rise	15942 Nov 14 14:12	26°M58'29	
morning max el	15941 Dec 23 07:53	22° ∡ ′38′33	25°13'00	direct	15942 Nov 20 16:17	25°M27'12	
	15941 Dec 29 20:24	0°ಕ			15942 Dec 01 14:48	0° ∡	
asc. node	15942 Jan 07 17:12	13° る 23'04		morning max el	15942 Dec 04 21:28	2° ∡ ′52'17	26°43'24
	15942 Jan 16 09:59	0° ≈			15942 Dec 24 08:01	0°る	
morning set	15942 Jan 18 21:51	5° ≈ 17′28		asc. node	15942 Dec 25 14:22	2°る17'52	
				morning set	15943 Jan 03 07:59	19° ට 48'19	
superior conj	15942 Jan 25 15:35	20°≈07'14	1°35'50		15943 Jan 07 23:18	0° ≈	
minimum elong	15942 Jan 25 16:30	20°≈12'17	1°36'22		15042 1 10 02 21	40 - 46101	1020102
max. Earth dist.	15942 Jan 27 09:18	23°≈56'47	1.31861 AU	superior conj	15943 Jan 10 02:31	4°≈46'21	1°38'02
	15942 Jan 30 04:27	0°) (42100		minimum elong	15943 Jan 10 02:22	4°≈45'32	1°38'45
evening rise	15942 Feb 01 21:50 15942 Feb 09 04:08	5°) (43'08		max. Earth dist.	15943 Jan 10 15:46	6°≈00'26	1.31173 AU
desc. node		19° ¥ 53'03 0° Υ		evening rise	15943 Jan 17 00:06	19° ≈ 54'10 0°) €	
evening max el	15942 Feb 14 23:20 15942 Mar 06 21:21	26° Υ 29'16	27°36'07	desc. node	15943 Jan 21 22:49 15943 Jan 27 00:51	9° ∺ 29'37	
evening max er		0° 8	27 3007	desc. node		9 π2937 0° Υ	
retrograde	15942 Mar 10 23:54 15942 Mar 20 19:47	3° 8 58'21		evening max el	15943 Feb 09 09:24 15943 Feb 17 03:59	8° Υ 45'45	27015150
evening set	15942 Mar 27 15:24	1° 8 40'35		retrograde	15943 Mar 03 04:37	16° Υ 05'07	27 13 36
evening set	15942 Mar 29 20:16	1 0 40 33		evening set	15943 Mar 09 21:28	14° Υ 05'55	
min. Earth dist.	15942 Mar 31 09:36	28° Υ 36'53	0.62555 AU	min. Earth dist.	15943 Mar 13 18:19	14 γ 03 33 11° Υ 20'57	0.60322 AU
inferior conj	15942 Apr 03 08:46	25° Υ 45'02		inferior conj	15943 Mar 16 23:12	8° Υ 38'15	
minimum elong	15942 Apr 03 08:40	25° Υ 41'32	0°42'37	minimum elong	15943 Mar 17 03:53	8° Υ 28'17	
asc. node	15942 Apr 05 14:24	23° Y '39'59	0 4237	asc. node	15943 Mar 23 11:46	4° Υ 11'07	2 03 31
morning rise	15942 Apr 10 07:57	20° Υ 37'03		morning rise	15943 Mar 24 13:44	3° Υ 49'14	
direct	15942 Apr 10 07:37 15942 Apr 12 15:13	20° Υ 12'26		direct	15943 Mar 26 15:08	3° Υ 32'13	
morning max el	15942 Apr 19 05:37	23° Y '33'01	17°46'26	morning max el	15943 Apr 02 20:56	7° Υ 09'26	17°58'55
ig max vi	15942 Apr 24 10:01	0° 8	1, .020	morning must of	15943 Apr 17 13:47	0°8	1, 3033
morning set	15942 May 05 06:35	18° 8 05'56		morning set	15943 Apr 18 10:46	1° 8 36'13	
desc. node	15942 May 08 05:35	23° 8 15'43		desc. node	15943 Apr 25 02:21	13° 8 43'31	
	15942 May 12 03:16	0°Ⅱ				0 .551	
		-		superior conj	15943 Apr 28 19:00	20° 8 16'38	-0°30'00
superior conj	15942 May 17 04:51	8° Ⅲ 32'53	-1°08'13	minimum elong	15943 Apr 28 16:24	20° 8 05'18	
minimum elong	15942 May 16 22:30	8° Ⅱ 06'25		3	15943 May 04 11:07	0°II	
	y				3		

max. Earth dist.	15943 May 06 07:44	3° Ⅱ 05'49	1.42522 AU	desc. node	15944 Apr 10 23:04	4° 8 15'37	
evening rise	15943 May 12 00:09	12° Ⅱ 18'34	1.42322 AU	max. Earth dist.	15944 Apr 17 16:39	16° 8 15'44	1.40376 AU
evening rise	15943 May 23 13:41	0°95		evening rise	15944 Apr 21 21:23	23° 8 22'25	1.40370 AC
evening max el	15943 Jun 13 19:58	27°9548'55	22°17'05	evening rise	15944 Apr 25 22:51	0°II	
evening max or	15943 Jun 16 04:44	0°Ω	22 17 03		15944 May 16 11:05	0ಂ ತಾ	
asc. node	15943 Jun 19 09:47	2°Ω15'52		evening max el	15944 May 26 10:42	11° © 43'21	23°38'23
retrograde	15943 Jun 23 11:21	3°Ω27'14		asc. node	15944 Jun 05 06:47	18°500'20	20 00 20
evening set	15943 Jun 28 06:33	1°Ω26'32		retrograde	15944 Jun 06 06:27	18° © 04'31	
<i>3</i>	15943 Jun 29 18:03	30°Rூ		evening set	15944 Jun 11 13:19	15° © 49'31	
inferior conj	15943 Jul 03 12:48	25° © 07'05	3°04'50	inferior conj	15944 Jun 16 22:28	9° 5 22'47	2°50'32
minimum elong	15943 Jul 03 12:01	25° © 09'49	3°04'01	minimum elong	15944 Jun 16 20:54	9° 5 28'10	2°49'30
min. Earth dist.	15943 Jul 03 10:36	25° © 14'48	0.69135 AU	min. Earth dist.	15944 Jun 16 07:13	10° © 15'05	0.68972 AU
morning rise	15943 Jul 08 17:20	18° © 53'19		morning rise	15944 Jun 22 04:28	3° 5 17'23	
direct	15943 Jul 13 09:49	16° © 55'24		direct	15944 Jun 26 08:48	1° 5 39'05	
desc. node	15943 Jul 22 01:45	21° 5 45'28		morning max el	15944 Jul 04 10:33	6°9514'04	20°32'59
morning max el	15943 Jul 22 15:15	22° 5 18'40	21°51'55	desc. node	15944 Jul 07 22:59	10° © 06'00	
	15943 Jul 29 06:58	0 $^{\circ}$ Ω			15944 Jul 22 10:10	0 $^{\circ}$ Ω	
	15943 Aug 19 04:17	0° ™		morning set	15944 Aug 02 12:49	16° Ω 47'53	
morning set	15943 Aug 24 00:57	7° m 37'41			15944 Aug 10 22:25	0° ™	
max. Earth dist.	15943 Aug 29 21:56	17° m 09'48	1.41943 AU	max. Earth dist.	15944 Aug 11 07:39	0° ™ 36′59	1.43888 AU
	15943 Sep 06 11:08	0∘ ⊽					
				superior conj	15944 Aug 17 17:49	11° m)05'17	-1°45'14
superior conj	15943 Sep 06 14:54	0° ≏ 16′28		minimum elong	15944 Aug 18 01:38	11° m 37'44	1°44'48
minimum elong	15943 Sep 06 20:44	0° ჲ 42'00	1°11'08		15944 Aug 28 20:00	0∘ ⊽	
asc. node	15943 Sep 15 10:45	16° ₽ 08'30		evening rise	15944 Aug 30 04:20	2° ≏ 21'08	
evening rise	15943 Sep 17 09:11	19° ≏ 41'59		asc. node	15944 Sep 01 07:24	6° Ω 04'10	
	15943 Sep 23 01:16	0°M,		evening max el	15944 Sep 15 22:06	28° ≙ 14'27	18°01'20
evening max el	15943 Oct 03 08:36	15°M05'36	18°10'24		15944 Sep 17 23:27	0°M	
retrograde	15943 Oct 10 12:11	18°M45'04		retrograde	15944 Sep 22 11:23	1°M38'19	
evening set	15943 Oct 12 15:57	18°M25'36		evening set	15944 Sep 24 22:49	1°M08'39	
desc. node	15943 Oct 17 22:42	15°M20'37	0020140	: <i>c</i> :	15944 Sep 27 01:28	30°R <u>Ω</u>	0041144
inferior conj	15943 Oct 19 23:09 15943 Oct 19 21:46	13°M38'11 13°M41'10	0°37'37	inferior conj minimum elong	15944 Oct 01 13:41 15944 Oct 01 14:55	26° £ 01'45 25° £ 58'41	0°41'44 0°41'34
minimum elong min. Earth dist.	15943 Oct 19 21.46 15943 Oct 23 05:01	10°ML49'10	0.59368 AU	desc. node	15944 Oct 01 14.33	23° £ 3841 23° £ 45'11	0 41 34
morning rise	15943 Oct 27 00:15	8°M04'10	0.39306 AU	min. Earth dist.	15944 Oct 04 13:17	23° £ 4311 23° £ 03'16	0.61661 AU
direct	15943 Nov 02 12:42	6°ML07'05		morning rise	15944 Oct 08 04:16	20° £ 01'03	0.01001 AC
morning max el	15943 Nov 16 19:23	13°M50'38	27°40'59	direct	15944 Oct 14 20:35	17° Ω 42'25	
morning max cr	15943 Nov 29 18:09	0° ∡ ¹	27 40 37	morning max el	15944 Oct 29 00:34	25° £ 38'33	27°59'14
asc. node	15943 Dec 12 11:28	21° x ⁷ 41'06		morning man er	15944 Nov 02 01:40	0°M	2, 0, 1.
	15943 Dec 16 15:36	0°ප			15944 Nov 22 06:42	0° ⊼	
morning set	15943 Dec 18 14:39	4° ට 05'54		asc. node	15944 Nov 28 08:27	11° ∡ 724'17	
max. Earth dist.	15943 Dec 24 23:38	18° る 03'35	1.31017 AU	morning set	15944 Dec 01 15:43	18° х 04'35	
				max. Earth dist.	15944 Dec 07 04:50	29° ₹ 55'40	1.31413 AU
superior conj	15943 Dec 25 13:57	19° る 23'44	1°34'15		15944 Dec 07 05:38	ರ°0	
minimum elong	15943 Dec 25 12:48	19° る 17'17	1°34'57				
	15943 Dec 30 08:10	0° ≈		superior conj	15944 Dec 08 23:58	3° る 53'28	1°24'25
evening rise	15944 Jan 01 07:09	4° ≈ 15'48		minimum elong	15944 Dec 08 22:01	3° る 42'42	1°25'00
desc. node	15944 Jan 13 21:36	28° ≈ 35'47		evening rise	15944 Dec 15 16:58	18° る 42'27	
	15944 Jan 14 17:53	0° ∀			15944 Dec 21 03:10	0° ≈	
evening max el	15944 Jan 30 03:19	20° ¥ 10'42	26°20'42	desc. node	15944 Dec 30 18:26	16° ≈ 59'30	
retrograde	15944 Feb 13 02:47	27° ¥ 18′04			15945 Jan 10 00:14	0° ∀	
evening set	15944 Feb 19 09:42	25°) 43′11		evening max el	15945 Jan 10 18:00	0°) (43'15	24°55'22
min. Earth dist.	15944 Feb 23 16:39	23°) €05'44		retrograde	15945 Jan 24 12:45	7°) €37'08	
inferior conj	15944 Feb 26 19:18	20°) 49′00		evening set	15945 Jan 30 00:27	6°) €29'59	
minimum elong	15944 Feb 27 03:26	20°) (34′04	3°32'49	min. Earth dist.	15945 Feb 04 06:07	3°) (44′12	
morning rise	15944 Mar 06 00:28	16°) €21'33		inferior conj	15945 Feb 06 18:20	2°) (08'13	
direct	15944 Mar 07 23:42	16°) €08'32		minimum elong	15945 Feb 07 03:33	1° ¥ 53'30	4°5/1/
asc. node	15944 Mar 09 09:10	16° 光 15′20 20° 光 13′11	10021117	morning rig-	15945 Feb 10 07:18	30°R≈ 28°002'04	
morning max el	15944 Mar 16 06:09	20° Υ 13'11 0° Υ	18°31'17	morning rise	15945 Feb 15 09:06	28°≈02'04 27°≈40'08	
morning set	15944 Mar 23 13:31	0°γ¹ 15° Υ 41'05		direct asc. node	15945 Feb 17 12:47 15945 Feb 24 06:33	27° ≈ 49'08 0° 升 05'31	
morning set	15944 Apr 01 03:56 15944 Apr 08 15:58	0° 8		asc. noue	15945 Feb 24 00:33 15945 Feb 24 03:17	0° X 0331	
	13.30 TAPE VO 13.30	v O		morning max el	15945 Feb 27 05:02	0 X 2° X 31'35	19°25'36
superior conj	15944 Apr 10 05:58	2° 8 56'46	0°05'58	morning set	15945 Mar 16 05:53	0° Υ 07'17	17 23 30
minimum elong	15944 Apr 10 06:22	2° 8 58'36			15945 Mar 16 04:25	0° γ	
behind sun begin	15944 Apr 09 23:39	2° 8 27'31	· -			•	
behind sun end	15944 Apr 10 13:04	3° 8 29'35		superior conj	15945 Mar 24 09:18	16° Ƴ 20′10	0°36'52
	r			1			-

minimum elong	15945 Mar 24 11:21	16° Ƴ 30′09	0°36'22	superior conj	15946 Mar 08 00:51	0° Y 15′16	1°01'36
desc. node	15945 Mar 28 19:44	24° Y 47'44		minimum elong	15946 Mar 08 03:24	0° Y 28'19	1°01'18
max. Earth dist.	15945 Mar 30 22:41	28° Ƴ 42'39	1.38079 AU	max. Earth dist.	15946 Mar 13 06:27	10° Ƴ 40′20	1.35881 AU
	15945 Mar 31 15:43	0°8		desc. node	15946 Mar 15 16:21	15° Ƴ 16′21	
evening rise	15945 Apr 03 15:26	5° 8 19'03		evening rise	15946 Mar 17 03:41	18° Ƴ 00'46	
C	15945 Apr 18 22:50	$\Pi^{\circ}0$		C	15946 Mar 23 22:28	0°8	
evening max el	15945 May 09 00:04	25° Ⅱ 37'38	24°58'00		15946 Apr 13 04:24	0°II	
3	15945 May 14 03:27	0ಂತಾ		evening max el	15946 Apr 21 13:37	9° Ⅱ 28'51	26°08'34
retrograde	15945 May 20 21:52	2° © 33'59		retrograde	15946 May 04 08:30	16° Ⅱ 48'20	20 000.
asc. node	15945 May 23 03:53	2°53333		asc. node	15946 May 10 01:03	14° II 40'46	
evening set	15945 May 26 16:06	0°908'16		evening set	15946 May 10 13:07	14° Ⅱ 16'44	
evening set	•	0 3 08 10		min. Earth dist.	•	9° П 55'00	0.67208 AU
i. Easth diet	15945 May 26 19:53	•	0.69220 ATT		15946 May 14 16:19		
min. Earth dist.	15945 May 31 01:48	25° I 10'50	0.68320 AU	inferior conj	15946 May 16 09:31	7° Ⅱ 47'04	1°49'30
inferior conj	15945 Jun 01 06:03	23° Ⅱ 37'38	2°25'39	minimum elong	15946 May 16 07:22	7° Ⅱ 53'43	1°48'09
minimum elong	15945 Jun 01 03:58	23° ∏ 44'31	2°24'24	morning rise	15946 May 22 02:25	2° Ⅱ 01'49	
morning rise	15945 Jun 06 16:09	17° ∏ 41'43		direct	15946 May 25 08:29	1° Ⅱ 01'45	
direct	15945 Jun 10 08:55	16° Ⅱ 23'11		morning max el	15946 May 31 22:18	4° Ⅱ 32'22	18°37'02
morning max el	15945 Jun 17 12:59	20° Ⅱ 19'50	19°27'11	desc. node	15946 Jun 11 17:10	18° Ⅱ 43'19	
desc. node	15945 Jun 24 20:07	29° Ⅱ 09'06			15946 Jun 19 00:41	0 \circ \odot	
	15945 Jun 25 10:54	0 \circ ∞		morning set	15946 Jun 22 08:48	5° © 13'12	
greatest brilliancy	15945 Jun 30 04:31	6°≌47'00	-0.7m	max. Earth dist.	15946 Jul 07 17:48	29° © 13'16	1.45936 AU
morning set	15945 Jul 12 16:46	25° © 41'44					
	15945 Jul 15 11:53	$0^{\circ}\Omega$		superior conj	15946 Jul 08 09:13	0° Ω 13′25	-2°13'43
max. Earth dist.	15945 Jul 24 22:55	14° Ω 43'20	1.45258 AU	minimum elong	15946 Jul 08 07:29	0° Ω 06'38	2°14'25
				Č	15946 Jul 08 05:47	0°N	
superior conj	15945 Jul 28 21:37	20° Ω 57'44	-2°08'13	evening rise	15946 Jul 24 00:29	24° Ω 48'46	
minimum elong	15945 Jul 29 03:08	21° Ω 19'39		evening rise	15946 Jul 27 06:52	0° m)	
minimum ciong	15945 Aug 03 12:43	0° m)	2 00 32	greatest brilliancy	15946 Jul 31 07:50	6° Mp 23'34	-0.9m
evening rise	15945 Aug 12 02:50	14° Mp 06'45		asc. node	15946 Aug 06 00:44	15° m) 09'16	-0.7111
asc. node	•	-			•		18°37'56
asc. node	15945 Aug 19 04:03	25° Mp 46'30		evening max el	15946 Aug 14 02:01	25° m) 30'34	18 3/30
	15945 Aug 21 19:15	0° 亞	10010140	retrograde	15946 Aug 20 14:58	29° My 02'25	
evening max el	15945 Aug 30 12:58	11° Ω 45'46	18°10'48	evening set	15946 Aug 23 20:16	28° Mp 03'24	202.4150
retrograde	15945 Sep 05 21:38	15° Ω 07'08		inferior conj	15946 Aug 29 12:14	22° m 24'55	2°24'59
evening set	15945 Sep 08 17:41	14° ≏ 24'02		minimum elong	15946 Aug 29 14:27	22° m) 18'04	2°24'15
inferior conj	15945 Sep 14 19:22	9° ഫ 00'22	1°42'23	min. Earth dist.	15946 Aug 31 10:52	20° Mp 01'56	0.65779 AU
minimum elong	15945 Sep 14 21:37	8° ≏ 54'02	1°41'43	morning rise	15946 Sep 04 07:31	15° m 59'55	
min. Earth dist.	15945 Sep 17 07:36	6° ≏ 11'47	0.63856 AU	desc. node	15946 Sep 07 14:48	13° m 57'23	
morning rise	15945 Sep 20 23:39	2° ₽ 43'07		direct	15946 Sep 10 15:56	13° m 22'12	
desc. node	15945 Sep 20 17:25	2° ≏ 55'25		morning max el	15946 Sep 23 21:26	21° m 10'29	26°49'15
direct	15945 Sep 27 14:15	0° ჲ 10'25			15946 Oct 01 13:38	0∘ ত	
morning max el	15945 Oct 11 10:13	8° ഫ 09'27	27°39'48		15946 Oct 21 12:36	0° M .	
	15945 Oct 28 08:41	0° M .		morning set	15946 Oct 29 15:09	14°M42'26	
	15945 Nov 14 12:53	0° ∡ ¹		asc. node	15946 Nov 02 02:09	21° M 27'22	
morning set	15945 Nov 15 08:53	1° ∡ ³39'13		max. Earth dist.	15946 Nov 02 16:57	22° M 41'21	1.33904 AU
asc. node	15945 Nov 15 05:20	1° ≯ ′21'32			15946 Nov 06 06:46	0° ∡ ⊓	
max. Earth dist.	15945 Nov 20 03:34	11° ₹ 28'57	1.32380 AU		10,101101 00 00.10	· ,.	
max. Earth dist.	13743 1107 20 03.54	11 × 2037	1.52500 110	superior conj	15946 Nov 07 07:33	2° × 709'27	0°46'28
superior conj	15945 Nov 23 06:36	18° ∡ 10'52	1°08'30	minimum elong	15946 Nov 07 05:25	1° x ⁷ 58'14	0°46'45
minimum elong	15945 Nov 23 04:15	17° 🗷 58'10	1°08'54	evening rise	15946 Nov 14 13:45	17° × ⁷ 34'12	0 4043
minimum clong	15945 Nov 28 16:37		1 00 34	evening rise		17 メ ・34 12 0°る	
		0°る			15946 Nov 20 16:39		21022150
evening rise	15945 Nov 30 03:48	3° ರ 10'13		evening max el	15946 Dec 04 16:50	20°る44'55	21°32′58
	15945 Dec 14 11:53	0° ≈		desc. node	15946 Dec 04 12:19	20°る33'46	
desc. node	15945 Dec 17 15:20	4° ≈ 25'36		retrograde	15946 Dec 16 20:06	26° ප් 44'54	
evening max el	15945 Dec 23 03:34	10° ≈ 42'52	23°13'26	evening set	15946 Dec 19 20:47	26° る 24'03	
retrograde	15946 Jan 05 09:31	17° ≈ 16′18		inferior conj	15946 Dec 28 13:05	22° る 33'49	-5°53'50
evening set	15946 Jan 09 16:49	16° ≈ 36′08		minimum elong	15946 Dec 28 08:10	22° る 40'41	5°52'37
min. Earth dist.	15946 Jan 16 13:58	13° ≈ 22'58	0.54877 AU	min. Earth dist.	15946 Dec 28 19:22	22° る 25'01	0.54392 AU
inferior conj	15946 Jan 17 21:32	12° ≈ 37′29	-5°54'15	morning rise	15947 Jan 05 20:04	18° る 45'05	
minimum elong	15946 Jan 18 01:54	12° ≈ 31'11	5°53'15	direct	15947 Jan 09 15:17	18° る 13'39	
morning rise	15946 Jan 26 12:22	8° ≈ 46′22		morning max el	15947 Jan 22 07:50	24° る 23'02	22°21'54
direct	15946 Jan 29 07:02	8° ≈ 28'00		-	15947 Jan 27 07:42	0° ≈	
morning max el	15946 Feb 09 13:49	13° ≈ 54'51	20°43'12	asc. node	15947 Jan 29 01:11	2° ≈ 19'39	
asc. node	15946 Feb 11 03:53	15°≈32'53	-	morning set	15947 Feb 13 00:17	29° ≈ 29'47	
	15946 Feb 21 00:34	0° ∀		<i>5</i>	15947 Feb 13 05:59	0° ∀	
morning set	15946 Feb 28 13:28	14°) 45'49				- /\	
	15946 Mar 07 21:51	0°Υ		superior conj	15947 Feb 20 01:09	14° ¥ 32'30	1°19'53
	257 10 17101 0/ 21.31	V 1		minimum elong	15947 Feb 20 03:24	14° X 44'29	
				mannum clong	1377/100 20 03.24	17 八 寸寸 4.9	1 1/33

max. Earth dist.	15947 Feb 23 20:38	22° ¥ 29'56 0° Ƴ	1.33978 AU	morning set	15948 Jan 28 12:16	14° ≈ 12'51	
evening rise	15947 Feb 27 14:31 15947 Feb 28 06:33	0° γ 1° Υ 18'00		superior conj	15948 Feb 04 07:21	29°≈03'23	1°31'47
desc. node	15947 Mar 02 12:59	5° Υ 37'36		minimum elong	15948 Feb 04 07:21 15948 Feb 04 08:50	29 ≈03 23 29°≈11'28	1°32'10
desc. node	15947 Mar 16 22:27	0° と		minimum clong	15948 Feb 04 17:44	0° ₩	1 32 10
evening max el	15947 Apr 04 03:30	23° 8 09'44	27°02'29	max. Earth dist.	15948 Feb 06 18:36	4°) 24′20	1.32496 AU
evening max er	15947 Apr 13 22:40	0°II	21 022)	evening rise	15948 Feb 11 20:40	15° X 01'25	1.52470710
retrograde	15947 Apr 17 13:16	0° Ⅱ 39'50		desc. node	15948 Feb 17 09:38	25°) 46'16	
retrograde	15947 Apr 20 22:51	30°R 8		dese. Hode	15948 Feb 19 17:18	0°Υ	
evening set	15947 Apr 24 02:29	28° 8 08'14			15948 Mar 10 17:25	0°8	
asc. node	15947 Apr 26 22:16	25° 8 31'38		evening max el	15948 Mar 16 16:15	6° 8 27'28	27°32'20
min. Earth dist.	15947 Apr 28 00:38	24° 8 20'08	0.65674 AU	retrograde	15948 Mar 30 11:07	13° 8 58'29	
inferior conj	15947 Apr 30 06:33	21° 8 45'54	1°01'01	evening set	15948 Apr 06 05:51	11° 8 33'28	
minimum elong	15947 Apr 30 05:02	21° 8 50'15	0°59'53	min. Earth dist.	15948 Apr 10 00:44	8° 8 15'24	0.63779 AU
morning rise	15947 May 06 09:07	16° 8 13'09		inferior conj	15948 Apr 12 18:22	5° 8 26'04	-0°00'57
direct	15947 May 09 05:29	15° 8 29'12		minimum elong	15948 Apr 12 18:24	5° 8 25'58	0°01'20
morning max el	15947 May 15 12:58	18° 8 46'19	18°03'43	transit middle	15948 Apr 12 18:24	5° 8 25'58	0°01'20
	15947 May 24 02:30	$\Pi^{\circ}0$		transit begin	15948 Apr 12 15:16	5° 8 34'06	
desc. node	15947 May 29 14:08	8° Ⅱ 40'30		transit end	15948 Apr 12 21:32	5° 8 17'52	
morning set	15947 Jun 03 02:32	15° Ⅱ 59'57		asc. node	15948 Apr 12 19:34	5° 8 22'56	
	15947 Jun 11 19:08	0ං ව		morning rise	15948 Apr 19 09:20	0° 8 08'18	
					15948 Apr 19 18:06	30° ₹Ƴ	
superior conj	15947 Jun 17 20:00	9° 5 33'14	-1°59'13	direct	15948 Apr 21 21:05	29° Y 37'30	
minimum elong	15947 Jun 17 12:08	9° 5 02'21	1°59'28		15948 Apr 23 23:53	0° 8	
max. Earth dist.	15947 Jun 20 14:23	13°953'20	1.45866 AU	morning max el	15948 Apr 28 06:24	2° 8 53'12	17°47'41
	15947 Jun 30 23:33	$0^{\circ}\Omega$		morning set	15948 May 14 23:03	28° 8 02'39	
evening rise	15947 Jul 03 23:05	4° Ω 35'47		desc. node	15948 May 15 11:01	28° 8 53'32	
greatest brilliancy	15947 Jul 16 13:27	23° Ω 46'35	-0.7m		15948 May 16 02:40	Π °0	
	15947 Jul 20 20:42	0° m					
asc. node	15947 Jul 23 21:28	4° Mp 05'44		superior conj	15948 May 27 21:48	19° Ⅱ 37'18	-1°29'17
evening max el	15947 Jul 28 10:49	9° m 22'31	19°21'44	minimum elong	15948 May 27 13:42	19° Ⅱ 04'29	1°29'05
retrograde	15947 Aug 04 12:18	13° m 17'39		max. Earth dist.	15948 Jun 02 09:56	28° Ⅱ 26'21	1.45058 AU
evening set	15947 Aug 08 03:29	12° m)01'10			15948 Jun 03 09:39	0 \circ 50	
inferior conj	15947 Aug 13 13:04	6° Mp 09′20	2°52'04	evening rise	15948 Jun 12 09:55	13° 9 59'21	
minimum elong	15947 Aug 13 14:40	6° Mp 04′04	2°51'25		15948 Jun 23 01:12	0 \circ Ω	
min. Earth dist.	15947 Aug 14 21:34	4° m/22'46	0.67315 AU	asc. node	15948 Jul 09 18:17	22°Ω26'13	
	15947 Aug 18 17:39	30°R Ω		evening max el	15948 Jul 10 13:45	23°Ω16'09	20°20'43
morning rise	15947 Aug 19 01:15	29° Ω 42'54		retrograde	15948 Jul 18 11:20	27°Ω46'16	
direct	15947 Aug 25 00:11	27° Ω 08'49		evening set	15948 Jul 22 12:55	26°Ω11'56	2005150
desc. node	15947 Aug 25 12:12	27° Ω 09'48 0° m		inferior conj	15948 Jul 27 19:08	20°Ω07'58	3°05'58
	15947 Sep 01 04:52	-	25927122	minimum elong	15948 Jul 27 19:50	20° Ω 05'33 19° Ω 04'09	3°05'22
morning max el	15947 Sep 06 08:39	4°ኪ31'15 0° ჲ	25° 30 22	min. Earth dist.	15948 Jul 28 13:47	13° Ω 44'22	0.68398 AU
morning set	15947 Sep 25 22:39 15947 Oct 12 06:59	0° 22 27° Ω 06'24		morning rise direct	15948 Aug 02 02:26 15948 Aug 07 14:01	$13^{\circ} 044^{\circ} 22$ $11^{\circ} \Omega 20^{\circ} 49$	
morning set	15947 Oct 12 00:53	0°M		desc. node	15948 Aug 11 09:35	11° Ω 18'07	
max. Earth dist.	15947 Oct 15 20:35	3°M46'01	1.35913 AU	morning max el	15948 Aug 18 19:36	18° Ω 03'44	24°10'42
asc. node	15947 Oct 19 22:54	11°ML37'47	1.55715 AU	morning max cr	15948 Aug 28 20:19	0°m)	24 10 42
use. Houe	13) 17 000 19 22.31	11 11057 17			15948 Sep 17 23:53	0∘ ⊽	
superior conj	15947 Oct 22 00:04	15°M42'34	0°18'33	morning set	15948 Sep 23 04:17	ა — 8° ჲ 41'53	
minimum elong	15947 Oct 21 22:58	15°MJ37'04	0°18'51	max. Earth dist.	15948 Sep 26 20:26	15° ♀ 07'47	1.38237 AU
	15947 Oct 28 23:30	0° ∡ 7					
evening rise	15947 Oct 29 20:49	1° ∡ ¹49'39		superior conj	15948 Oct 04 04:41	28° ≏ 41'52	-0°14'31
Ü	15947 Nov 15 10:50	0°ರ		minimum elong	15948 Oct 04 05:40	28° ≏ 46'33	
evening max el	15947 Nov 16 18:13	1° る 22'59	20°08'12	behind sun begin	15948 Oct 04 02:12	28° ≏ 29'57	
desc. node	15947 Nov 21 09:25	5° ⋜ 00′11		behind sun end	15948 Oct 04 09:09	29° ഫ 03'11	
retrograde	15947 Nov 27 08:00	6° ට 39'04			15948 Oct 04 21:00	0° M	
evening set	15947 Nov 29 11:54	6° ප 26'53		asc. node	15948 Oct 05 19:37	1°M49'02	
inferior conj	15947 Dec 08 07:08	2° ට 29'43	-4°53'50	evening rise	15948 Oct 12 22:31	15°M50'20	
minimum elong	15947 Dec 07 21:10	2° る 44'37	4°50'28		15948 Oct 20 09:12	0° ∡ ¹	
min. Earth dist.	15947 Dec 10 01:27	1°る26'24	0.54851 AU	evening max el	15948 Oct 29 10:06	12° ∡ 751′16	19°05'17
	15947 Dec 12 14:50	30°R ✓		retrograde	15948 Nov 07 09:51	17° ∡ ¹22'44	
morning rise	15947 Dec 16 05:37	28° ∡ ¹24'36		desc. node	15948 Nov 07 06:36	17° ∡ ¹22'41	
direct	15947 Dec 21 02:03	27° ∡ ³33'35		evening set	15948 Nov 09 07:03	17° ∡ 11'38	
	15947 Dec 29 04:16	0°ප		inferior conj	15948 Nov 17 16:51	12° ∡ 57′29	-3°17'01
morning max el	15948 Jan 03 17:02	4° ට 17'30	24°11'45	minimum elong	15948 Nov 17 08:48	13° ∡ 11'17	3°13'21
asc. node	15948 Jan 15 22:27	20° る 07'50		min. Earth dist.	15948 Nov 20 11:57	11° ∡ ¹02'51	0.56158 AU
	15948 Jan 21 12:45	0° ≈		morning rise	15948 Nov 25 07:55	8° х 19′32	

Ji	15948 Dec 01 00:37	7° √ 04'01			15949 Nov 26 20:27	2.40 m 47145	27912122
direct			25054147	morning max el		24°M47'45	27-12-32
morning max el	15948 Dec 15 03:15	14° ⊀ 16′01	25°54'47		15949 Dec 01 15:45	0° ∡ 7	
	15948 Dec 27 14:06	0°る		asc. node	15949 Dec 19 16:46	27° х 50'10	
asc. node	15949 Jan 01 19:39	8° る 42'15		_	15949 Dec 20 20:05	0° ප	
morning set	15949 Jan 11 23:37	28° る 50'17		morning set	15949 Dec 27 08:31	13° る 16'17	
	15949 Jan 12 12:31	0° ≈				_	
				superior conj	15950 Jan 03 04:33	28° පි 21'02	
superior conj	15949 Jan 18 17:11	13° ≈ 41'48	1°37'31	minimum elong	15950 Jan 03 03:58	28° る 17'45	1°37'53
minimum elong	15949 Jan 18 17:39	13° ≈ 44'24	1°38'07	max. Earth dist.	15950 Jan 03 06:10	28° る 30'02	1.31036 AU
max. Earth dist.	15949 Jan 19 22:48	16° ≈ 26′10	1.31505 AU		15950 Jan 03 22:14	0° ≈	
evening rise	15949 Jan 25 19:14	29° ≈ 04'27		evening rise	15950 Jan 09 23:45	13° ≈ 20′27	
	15949 Jan 26 05:54	0° ∀			15950 Jan 18 07:46	0° ∀	
desc. node	15949 Feb 03 06:20	15°) 36′57		desc. node	15950 Jan 21 03:03	5° ₩ 01'49	
	15949 Feb 11 20:53	0 ° Υ			15950 Feb 08 03:06	0 ° Υ	
evening max el	15949 Feb 27 01:38	19° Y ′09'09	27°31'41	evening max el	15950 Feb 09 05:13	1° Y 03'48	26°56'32
retrograde	15949 Mar 13 01:08	26° Ƴ 34'39		retrograde	15950 Feb 23 06:02	8° Ƴ 19'10	
evening set	15949 Mar 19 20:37	24° Y °23'36		evening set	15950 Mar 01 19:33	6° Ƴ 29'31	
min. Earth dist.	15949 Mar 23 15:08	21° Y ′29'20	0.61623 AU	min. Earth dist.	15950 Mar 05 19:22	3° Ƴ 49'21	0.59367 AU
inferior conj	15949 Mar 26 17:37	18° Y 39'09	-1°16'38	inferior conj	15950 Mar 09 00:39	1° Y 15'20	-2°43'35
minimum elong	15949 Mar 26 20:20	18° Ƴ 32'55	1°15'42	minimum elong	15950 Mar 09 06:52	1° Y ′02'53	2°41'09
asc. node	15949 Mar 30 16:55	15° Ƴ 20'32			15950 Mar 10 15:03	30°₽) €	
morning rise	15949 Apr 02 23:16	13° Y '39'11		morning rise	15950 Mar 16 21:45	26°) 35'35	
direct	15949 Apr 05 03:48	13° Ƴ 18'13		asc. node	15950 Mar 17 14:17	26° ¥ 27'12	
morning max el	15949 Apr 11 23:31	16° Ƴ 44'08	17°49'27	direct	15950 Mar 18 21:30	26° ¥ 20'50	
S	15949 Apr 21 09:42	0°8			15950 Mar 26 09:17	0° Y	
morning set	15949 Apr 27 17:21	11° 8 05'58		morning max el	15950 Mar 26 12:48	0° Ƴ 08'31	18°10'08
desc. node	15949 May 02 07:51	19° 8 17'23		morning set	15950 Apr 11 03:37	24° Y ′52'33	
***************************************	15949 May 08 11:56	0°II			15950 Apr 13 21:17	0°8	
	10) 1) 1114 00 11.00	Ÿ —		desc. node	15950 Apr 19 04:36	9° 8 47'33	
superior conj	15949 May 08 22:34	0° ∏ 45'12	-0°52'00	dese. node	10,000 Apr 15 0 1.50	y O 1,733	
minimum elong	15949 May 08 17:49	0° П 24'59	0°51'56	superior conj	15950 Apr 20 22:04	12° 8 54'35	-0°14'16
max. Earth dist.	15949 May 16 01:40	12° П 34'59	1.43597 AU	minimum elong	15950 Apr 20 20:53	12° 8 49'20	0°14'33
evening rise	15949 May 23 01:42	23° II 42'25	1.43377 710	behind sun begin	15950 Apr 20 17:45	12° 8 35'15	0 1433
evening rise	15949 May 27 03:42	0°95		behind sun end	15950 Apr 21 00:02	13° 8 03'25	
	15949 Jun 17 05:05	0°Ω		max. Earth dist.	15950 Apr 28 12:29	26° 8 06'48	1.41639 AU
evening max el	15949 Jun 23 10:41	7° Ω 09'33	21°32'05	max. Earth dist.	15950 Apr 30 20:28	0°Ⅱ	1.41039 AU
asc. node	15949 Jun 26 15:10	9° Ω 58'43	21 32 03	evening rise	15950 May 03 10:45	0 <u>П</u> 4° П 14'21	
		9.663843 $12^{\circ}\Omega 22'42$		evening rise		4 п 14 21 0° ©	
retrograde	15949 Jul 02 10:03	$12 \ \delta C 22 \ 42$ $10^{\circ} \Omega 31'11$			15950 May 20 09:57		22051120
evening set	15949 Jul 06 22:38		2000110	evening max el	15950 Jun 06 03:04	21°503'50	22-51-30
inferior conj	15949 Jul 12 04:10	4°Ω16'40		asc. node	15950 Jun 13 12:07	26°\$28'07	
minimum elong	15949 Jul 12 03:55	4°Ω17'33	3°07'38	retrograde	15950 Jun 16 06:55	27°501'35	
min. Earth dist.	15949 Jul 12 09:27	3° Ω 58'13	0.69003 AU	evening set	15950 Jun 21 06:56	24°954'38	2000102
	15949 Jul 15 09:51	30°₹©		inferior conj	15950 Jun 26 14:10	18°931'34	3°00'02
morning rise	15949 Jul 17 08:59	27°558'35		minimum elong	15950 Jun 26 13:01	18°935'33	2°59'09
direct	15949 Jul 22 08:23	25°950'27		min. Earth dist.	15950 Jun 26 06:26	18°958'27	0.69119 AU
desc. node	15949 Jul 29 06:56	28°958'22		morning rise	15950 Jul 01 18:59	12°520'58	
	15949 Jul 30 11:52	0° U		direct	15950 Jul 06 06:12	10° © 31'14	
morning max el	15949 Aug 01 07:38	1° Ω 44'11	22°41'27	morning max el	15950 Jul 14 23:25	15°533'39	21°16'56
_	15949 Aug 22 18:11	0° m		desc. node	15950 Jul 16 04:12	16°9548'02	
morning set	15949 Sep 04 03:03	19° m 19'26		_	15950 Jul 26 15:08	0 ° Ω	
max. Earth dist.	15949 Sep 08 20:17	27° m 10'20	1.40634 AU	morning set	15950 Aug 15 02:09	28° Ω 57'33	
	15949 Sep 10 12:03	0∘ ⊽			15950 Aug 15 18:03	0° m	
		_		max. Earth dist.	15950 Aug 22 01:38	10° Mp 06'52	1.42824 AU
superior conj	15949 Sep 16 17:16	10° ≏ 57'15					
minimum elong	15949 Sep 16 21:15	11° ≏ 15'19	0°50'06	superior conj	15950 Aug 29 09:31	22° m 20'21	
asc. node	15949 Sep 22 16:17	21° ≏ 57'01		minimum elong	15950 Aug 29 16:31	22° m 50'13	1°26'08
evening rise	15949 Sep 26 15:39	29° ≏ 27'26			15950 Sep 02 19:42	0∘ ⊽	
	15949 Sep 26 22:32	0°M₊		evening rise	15950 Sep 09 20:14	12° ≏ 31'26	
evening max el	15949 Oct 12 13:42	25°M06'02	18°24'28	asc. node	15950 Sep 09 12:57	11° ≏ 58'36	
retrograde	15949 Oct 20 06:34	29°M00'55			15950 Sep 19 22:31	0° M	
evening set	15949 Oct 22 06:33	28°M45'49		evening max el	15950 Sep 26 00:51	7°M58'37	18°04'15
desc. node	15949 Oct 25 03:52	27°M35'34		retrograde	15950 Oct 02 21:04	11°M29'33	
inferior conj	15949 Oct 29 23:55	24°M10'53	-1°33'23	evening set	15950 Oct 05 03:56	11°M06'12	
minimum elong	15949 Oct 29 20:18	24°M18'08	1°31'19	inferior conj	15950 Oct 12 03:55	6° ™ 10'31	
min. Earth dist.	15949 Nov 02 05:37	21°M36'11	0.58088 AU	minimum elong	15950 Oct 12 03:51	6° ™ 10'40	0°01'44
morning rise	15949 Nov 06 06:34	18° ™ 55'49		transit middle	15950 Oct 12 03:51	6° ™ 10'40	0°01'44
direct	15949 Nov 12 13:43	17° M 13'11		transit begin	15950 Oct 12 00:34	6° M 18′18	

transit end	15950 Oct 12 07:09	6°M₀03'00		inferior conj	15951 Sep 25 01:21	18° ≏ 49'36	1°09'50
desc. node	15950 Oct 12 01:10	6°M16'54		minimum elong	15951 Sep 25 03:10	18° - 44'48	1°09'23
min. Earth dist.	15950 Oct 12 01:10	3°M14'44	0.60344 AU	min. Earth dist.	15951 Sep 27 20:31	15° ≏ 53'22	0.62627 AU
morning rise	15950 Oct 19 00:36	0°M24'03	0.00311110	desc. node	15951 Sep 28 22:31	14° Ω 49'36	0.02027 110
morning rise	15950 Oct 19 16:30	30°R ≏		morning rise	15951 Oct 01 11:30	12° - 41'01	
direct	15950 Oct 25 15:39	28° ₽ 16'38		direct	15951 Oct 08 03:52	10° ♀ 15'23	
	15950 Oct 31 22:47	0°M		morning max el	15951 Oct 22 04:46	18° £ 13'16	27°55'14
morning max el	15950 Nov 08 21:34	6°M06'50	27°53'30	morning man er	15951 Nov 01 02:59	0°M	2, 661.
	15950 Nov 26 20:41	0° ∡ 7	_,,		15951 Nov 19 17:07	0° ⊼ 7	
asc. node	15950 Dec 06 13:49	17° ∡ "22'31		asc. node	15951 Nov 23 10:46	7° √ 12'14	
morning set	15950 Dec 11 13:01	27° х 26'07		morning set	15951 Nov 25 11:01	11° x 14'57	
	15950 Dec 12 18:06	0°ප		max. Earth dist.	15951 Nov 30 15:59	22° х 12′53	1.31756 AU
max. Earth dist.	15950 Dec 17 13:07	10° る 28'13	1.31114 AU	man. Burur uist.	10,011,01 30 10.0	22 / 1200	1.517,00110
				superior conj	15951 Dec 03 00:26	27° ∡ °20'57	1°18'25
superior conj	15950 Dec 18 15:36	12° る 55'46	1°30'50	minimum elong	15951 Dec 02 22:16	27° × ⁷ 09'01	1°18'56
minimum elong	15950 Dec 18 14:05	12° る 47'16	1°31'29		15951 Dec 04 05:19	0°ਰ	
evening rise	15950 Dec 25 08:10	27° る 44'35	1 312)	evening rise	15951 Dec 09 18:39	12° る 12'27	
evening rise	15950 Dec 26 09:24	0°≈		evening rise	15951 Dec 18 14:51	0°≈	
desc. node	15951 Jan 07 23:50	23°≈51'19		desc. node	15951 Dec 25 20:41	11°≈52'43	
desc. flode	15951 Jan 11 23:53	0° ∺		evening max el	15951 Dec 23 20:41 15952 Jan 03 12:55	22°≈22'01	24°13'04
evening max el	15951 Jan 22 00:56	12° ¥ 06'00	25°47'32	retrograde	15952 Jan 17 03:15	22 ∞22 01 29°≈07'35	24 13 04
•		12 ★ 07'59	25 47 52	evening set			
retrograde	15951 Feb 04 23:23			U	15952 Jan 22 03:57	28°≈12'30	0.55540.411
evening set	15951 Feb 10 23:01	17°) (45'01	0.57240.411	min. Earth dist.	15952 Jan 28 00:35	25°≈17'39	0.55549 AU
min. Earth dist.	15951 Feb 15 13:57		0.57248 AU	inferior conj	15952 Jan 30 02:07	24°≈02'39	
inferior conj	15951 Feb 18 11:58	13°) €05'04		minimum elong	15952 Jan 30 10:08	23°≈50'29	5°26'18
minimum elong	15951 Feb 18 21:04	12°) (49′20	4°10'22	morning rise	15952 Feb 07 18:10	20°≈03'51	
morning rise	15951 Feb 26 22:06	8°) 46′38		direct	15952 Feb 10 03:03	19° ≈ 49'16	
direct	15951 Feb 28 22:00	8°) (34′15		asc. node	15952 Feb 19 09:03	23° ≈ 49'48	
asc. node	15951 Mar 04 11:41	9° ∺ 16′10		morning max el	15952 Feb 20 11:16	24°≈50'11	19°55'45
morning max el	15951 Mar 09 18:06	12° ¥ 54'23	18°51'32		15952 Feb 24 21:24	0° ∀	
	15951 Mar 21 06:36	0° Υ		morning set	15952 Mar 09 05:42	23°) 41′12	
morning set	15951 Mar 26 00:57	9° Ƴ 07'52			15952 Mar 12 08:01	0 ° Υ	
superior conj	15951 Apr 03 16:29	25° Y ′54'24	0°19'47	superior conj	15952 Mar 17 01:32	9° Y 33'08	0°48'08
minimum elong	15951 Apr 03 17:45	26° Y ′00′21	0°19'17	minimum elong	15952 Mar 17 03:55	9° Ƴ 44'59	0°47'42
	15951 Apr 05 20:55	$0^{\circ}S$		desc. node	15952 Mar 22 21:53	20° Y 51′28	
desc. node	15951 Apr 06 01:15	0° 8 20'02		max. Earth dist.	15952 Mar 23 02:18	21° Y °12'08	1.37124 AU
max. Earth dist.	15951 Apr 10 19:36	8° 8 57'14	1.39404 AU	evening rise	15952 Mar 26 19:21	27° Y 59'34	
evening rise	15951 Apr 14 17:04	15° 8 41'52			15952 Mar 27 22:26	9° 8	
	15951 Apr 23 12:04	$\Pi^{\circ}0$			15952 Apr 15 21:02	Π $^{\circ}0$	
	15951 May 15 02:49	0°ಅ		evening max el	15952 May 01 06:38	18° Ⅲ 53'42	25°29'31
evening max el	15951 May 19 17:07	4° © 59'04	24°13'00	retrograde	15952 May 13 13:48	26° Ⅲ 00′33	
retrograde	15951 May 31 00:29	11° © 36'12		asc. node	15952 May 17 06:16	25° Ⅱ 04'52	
asc. node	15951 May 31 09:09	11° © 35'38		evening set	15952 May 19 12:43	23° Ⅲ 31'44	
evening set	15951 Jun 05 12:10	9° 5 16'26		min. Earth dist.	15952 May 23 19:31	18° Ⅱ 49'48	0.67912 AU
min. Earth dist.	15951 Jun 10 02:29	3° 9 57'39	0.68752 AU	inferior conj	15952 May 25 05:16	17° Ⅱ 01'06	2°11'47
inferior conj	15951 Jun 10 23:10	2°5947'42	2°41'19	minimum elong	15952 May 25 03:05	17° Ⅲ 08′07	2°10'27
minimum elong	15951 Jun 10 21:20	2°953'53	2°40'11	morning rise	15952 May 30 17:56	11° Ⅱ 09'37	
	15951 Jun 13 02:22	30° Ŗ Ⅱ		direct	15952 Jun 03 06:08	9° Ⅱ 59'01	
morning rise	15951 Jun 16 06:34	26° Ⅱ 45'59		morning max el	15952 Jun 10 02:59	13° Ⅱ 42'31	19°03'48
direct	15951 Jun 20 05:57	25° Ⅱ 15'58		desc. node	15952 Jun 18 22:28	24° Ⅱ 45'49	
morning max el	15951 Jun 27 21:30	29° Ⅲ 33'07	20°03'09		15952 Jun 22 12:17	0ಂತಾ	
	15951 Jun 28 08:14	0ಂಣ		greatest brilliancy	15952 Jun 23 03:20	0° © 56'17	-0.7m
desc. node	15951 Jul 03 01:23	5° © 28'15		morning set	15952 Jul 03 15:01	16°957'55	0.711
desc. node	15951 Jul 20 03:51	0° Ω		morning sec	15952 Jul 12 01:04	0°Ω	
morning set	15951 Jul 25 08:18	7° Ω 54'15		max. Earth dist.	15952 Jul 17 07:30	8° Ω 12'51	1.45645 AU
max. Earth dist.	15951 Aug 04 13:53	23° Ω 52'34	1.44555 AU	max. Lartii dist.	13732 Jul 17 07.30	0 661231	1.43043 AC
max. Lartii dist.	15951 Aug 04 15:55 15951 Aug 08 09:42	0° m)	1.44333 AO	superior conj	15952 Jul 19 21:44	12° Ω 16'57	2012/50
	13931 Aug 00 09.42	∪ ıı <u>y</u>		minimum elong	15952 Jul 19 21:44 15952 Jul 20 00:33	$12^{\circ}\Omega 10^{\circ}37$ $12^{\circ}\Omega 28'02$	
superior con:	15051 Aug 10 02:20	20 m 1 1/20	1056142	mmmum eiong	15952 Jul 20 00:33 15952 Jul 31 00:34	0° Mp	4 13 3 4
superior conj	15951 Aug 10 02:20	2° Mp 44'30		ovonina rica		-	
minimum elong	15951 Aug 10 09:52	3° To 15'09	1 30 34	evening rise	15952 Aug 03 19:21	6° Mp 08'03	
evening rise	15951 Aug 23 07:10	24° m 49'01		asc. node	15952 Aug 13 06:13	21° Tp 23'46	
1	15951 Aug 26 07:57	0° ∿		i	15952 Aug 19 01:51	0° ⊽	10020112
asc. node	15951 Aug 27 09:34	1° Ω 49'08	10002110	evening max el	15952 Aug 23 05:48	4° £ 56'02	18°20'13
evening max el	15951 Sep 09 15:24	21° Ω 18'21	18°03'10	retrograde	15952 Aug 29 15:09	8° £ 20'15	
retrograde	15951 Sep 16 01:22	24° £ 39'08		evening set	15952 Sep 01 15:08	7° Ω 30'29	2002122
evening set	15951 Sep 18 16:31	24° £ 03'58		inferior conj	15952 Sep 07 12:13	1° ≏ 59'59	2°02'32

minimum elong	15952 Sep 07 14:33	1° ≏ 53'07	2°01'49	evening set	15953 Aug 16 20:02	21° m) 18'46	
Č	15952 Sep 09 05:06	30°R, M)		inferior conj	15953 Aug 22 08:53	15° m) 34'13	2°38'13
min. Earth dist.	15952 Sep 09 18:41	29° m/21'00	0.64718 AU	minimum elong	15953 Aug 22 10:53	15° m 27'50	2°37'32
morning rise	15952 Sep 13 12:29	25° m/38'32		min. Earth dist.	15953 Aug 24 01:27	13° m 25'42	0.66479 AU
desc. node	15952 Sep 14 19:55	24° m/41'37		morning rise	15953 Aug 28 00:52	9° m 07'42	
direct	15952 Sep 20 00:48	23° m/02'59		desc. node	15953 Sep 01 17:19	6° m/39'26	
	15952 Oct 02 15:35	0∘ <u>⊽</u>		direct	15953 Sep 03 05:23	6° m/30'43	
morning max el	15952 Oct 03 15:27	0° ჲ 58'34	27°21'40	morning max el	15953 Sep 16 03:05	14° Mp 10'30	26°20'28
	15952 Oct 25 05:16	0° M .			15953 Sep 29 01:06	0∘ ⊽	
morning set	15952 Nov 07 23:54	24°M36'48			15953 Oct 17 23:00	0° M	
asc. node	15952 Nov 09 07:36	27°M13'32		morning set	15953 Oct 22 00:34	7° M 24'58	
	15952 Nov 10 16:42	0° ∡ ¹		max. Earth dist.	15953 Oct 25 20:43	14°M45'52	1.34704 AU
max. Earth dist.	15952 Nov 12 11:15	3° ∡ ³38′07	1.32965 AU	asc. node	15953 Oct 27 04:23	17°M22'00	
superior conj	15952 Nov 16 04:56	11° ∡ ³30'46	0°59'53	superior conj	15953 Oct 31 02:40	25° M 19'31	0°35'19
minimum elong	15952 Nov 16 02:35	11° ∡ 18'12	1°00'14	minimum elong	15953 Oct 31 00:51	25° M ₊10'10	0°35'35
evening rise	15952 Nov 23 05:21	26° ∡ ³39'14		C	15953 Nov 02 08:40	0° ∡ ¹	
C	15952 Nov 24 19:13	0°₹		evening rise	15953 Nov 07 14:23	11° ∡ ¹00'30	
desc. node	15952 Dec 11 17:38	28° ප් 48'20		8	15953 Nov 17 10:14	0°ප	
	15952 Dec 12 18:23	0° ≈		evening max el	15953 Nov 26 16:14	12° る 31'00	20°54'26
evening max el	15952 Dec 14 22:38	2°≈16'59	22°29'26	desc. node	15953 Nov 28 14:41	14° る 16'33	20 0.20
retrograde	15952 Dec 27 18:46	8°≈38'12	22 27 20	retrograde	15953 Dec 08 04:45	18° る 13'45	
evening set	15952 Dec 31 12:52	8°≈07'18		evening set	15953 Dec 10 18:34	16 さ 13 4 3	
inferior conj	15953 Jan 08 22:49	4°≈14'00	6001147	inferior conj	15953 Dec 10 18:34 15953 Dec 19 13:37	17 3 3733	5024150
				-		14 30001 14° 3 17'25	
minimum elong	15953 Jan 08 23:21	4°≈13'16	6°01'04	minimum elong	15953 Dec 19 05:37		
min. Earth dist.	15953 Jan 08 06:33	4°≈36'53	0.54555 AU	min. Earth dist.	15953 Dec 20 12:01	13°る34'00	0.54469 AU
morning rise	15953 Jan 17 10:57	0°≈26'26		morning rise	15953 Dec 27 16:44	10°る12'29	
direct	15953 Jan 20 15:23	0°≈03'30	21022106	direct	15953 Dec 31 22:43	9° る 33'37	2200011.5
morning max el	15953 Feb 01 13:29		21°23'06	morning max el	15954 Jan 14 02:51	15°₹59'07	23°08'15
asc. node	15953 Feb 05 06:23	9° ≈ 52'58		asc. node	15954 Jan 23 03:41	27° る 07'45	
_	15953 Feb 17 12:26	0° ∀			15954 Jan 24 23:53	0° ≈	
morning set	15953 Feb 21 14:57	8°) 22′54		morning set	15954 Feb 06 02:29	23°≈06'48	
					15954 Feb 09 07:09	0°) €	
superior conj	15953 Feb 28 21:12	23°) ₹38'46	1°10'08			>	
minimum elong	15953 Feb 28 23:42	23° ¥ 51'46	1°09'58	superior conj	15954 Feb 13 00:20	8°) €02'36	1°25'42
	15953 Mar 03 23:38	0° Υ		minimum elong	15954 Feb 13 02:19	8° ¥ 13'12	
max. Earth dist.	15953 Mar 05 12:34	3° Y ′04'45	1.35024 AU	max. Earth dist.	15954 Feb 16 05:45	14° ¥ 53'30	1.33286 AU
evening rise	15953 Mar 09 14:13	10° Y ′57′07		evening rise	15954 Feb 20 22:15	24° ∺ 26′00	
desc. node	15953 Mar 09 18:30	11° Ƴ 17'17			15954 Feb 23 19:18	0° Y	
	15953 Mar 20 10:47	9° 8		desc. node	15954 Feb 24 15:09	1° Ƴ 33'25	
	15953 Apr 11 05:39	Π \circ 0			15954 Mar 13 23:40	9° 8	
evening max el	15953 Apr 13 20:16	2° Ⅱ 41′08	26°33'51	evening max el	15954 Mar 27 09:38	16° 8 12'33	27°18'29
retrograde	15953 Apr 26 22:00	10° Ⅲ 06'31		retrograde	15954 Apr 10 00:10	23° 8 45'01	
evening set	15953 May 03 06:44	7° Ⅲ 33'50		evening set	15954 Apr 16 16:10	21° 8 15'05	
asc. node	15953 May 04 03:28	6° Ⅱ 49'08		min. Earth dist.	15954 Apr 20 12:32	17° 8 40'25	0.64903 AU
min. Earth dist.	15953 May 07 07:30	3° Ⅲ 27′04	0.66611 AU	asc. node	15954 Apr 21 00:45	17° 8 07'32	
inferior conj	15953 May 09 06:17	1° Ⅱ 06'32	1°30'32	inferior conj	15954 Apr 22 23:44	14° 8 57'52	0°36'24
minimum elong	15953 May 09 04:19	1° Ⅱ 12'29	1°29'13	minimum elong	15954 Apr 22 22:45	15° 8 00'35	0°35'31
-	15953 May 10 04:37	30° ₹ 8		morning rise	15954 Apr 29 07:17	9° 8 31'23	
morning rise	15953 May 15 02:59	25° 8 26'39		direct	15954 May 01 23:44	8° 8 53'35	
direct	15953 May 18 04:49	24° 8 33'49		morning max el	15954 May 08 07:09	12° 8 08'53	17°54'46
morning max el	15953 May 24 14:56	27° 8 56'57	18°20'48	. 8	15954 May 20 21:37	0°II	
morning mun vi	15953 May 26 13:11	0°II	10 20 .0	desc. node	15954 May 23 16:27	4° ∏ 35'01	
desc. node	15953 Jun 05 19:30	14° Ⅱ 30'38		morning set	15954 May 25 22:38	8° Ⅱ 19'10	
morning set	15953 Jun 13 17:10	26° ∏ 59'22		morning set	15954 Jun 08 06:26	0°95	
morning set	15953 Jun 15 14:43	0°95			13754 Juli 00 00.20	0	
	10 11.10			superior conj	15954 Jun 08 22:30	1° © 03'51	-1°47'57
superior conj	15953 Jun 29 06:50	21° 5 28'49	-2°09'53	minimum elong	15954 Jun 08 13:51	0°929'30	
minimum elong	15953 Jun 29 01:54	21°509'36		max. Earth dist.	15954 Jun 12 23:30	7°\$26'38	1.45603 AU
max. Earth dist.	15953 Jun 30 03:37	21 3 09 30 22° 5 49'48	1.45999 AU	evening rise	15954 Jun 24 22:10	25°\$56'11	1.12003 AU
man. Darm Wist.	15953 Jul 04 18:05	0°Ω	1.70/// AU	evening Hee	15954 Jun 27 13:59	23 3 30 11 0° Ω	
avaning rice		0 δι 16° Ω 24'47		greatest brillians	15954 Jul 09 05:22	17° Ω 26'50	-0.6m
evening rise	15953 Jul 15 06:32 15953 Jul 23 23:52			greatest brilliancy asc. node	15954 Jul 17 23:42	29° Ω 19'04	-0.0III
grantast brilli		0°M)	0.00	asc. noue			
greatest brilliancy	15953 Jul 25 01:26	1° m 38'08	-0.8m	i	15954 Jul 18 13:34	0°M)	10045100
asc. node	15953 Jul 31 02:56	10° Tp 36'32	1005 42 4	evening max el	15954 Jul 20 23:37	2° m 37'19	19~45′08
evening max el	15953 Aug 06 17:14	18° Mp 44'24	18°54'34	retrograde	15954 Jul 28 09:01	6° Mp 46'25	
retrograde	15953 Aug 13 10:40	22° Mp 25'01		evening set	15954 Aug 01 04:26	5° Mg 22'33	

	15954 Aug 06 01:56	30°R€		asa nada	15955 Jul 04 20:34	17° Ω 21'23	
: <i>£</i> :	Č		2050127	asc. node		17.862123 $21^{\circ}\Omega 19'18$	
inferior conj	15954 Aug 06 12:15	29° Ω 25'29	2°59'27	retrograde	15955 Jul 12 08:03	$19^{\circ}\Omega 37'40$	
minimum elong	15954 Aug 06 13:30	29° Ω 21'18	2°58'50	evening set	15955 Jul 16 14:14		2000117
min. Earth dist.	15954 Aug 07 14:53	27° Ω 56'15	0.67830 AU	inferior conj	15955 Jul 21 19:53	13° Ω 29'16	3°08'17
morning rise	15954 Aug 11 22:04	22° Ω 59'35		minimum elong	15955 Jul 21 20:10	13° Ω 28'15	3°07'39
direct	15954 Aug 17 16:19	20° Ω 29'01		min. Earth dist.	15955 Jul 22 08:51	12° Ω 44'21	0.68721 AU
desc. node	15954 Aug 19 14:44	20° Ω 43'45		morning rise	15955 Jul 27 01:50	7° Ω 07'46	
morning max el	15954 Aug 29 14:06	27° Ω 36′54	25°00'50	direct	15955 Aug 01 08:24	4° Ω 50′01	
	15954 Aug 31 20:06	0° m y		desc. node	15955 Aug 06 12:06	6° Ω 34'26	
	15954 Sep 22 16:55	0∘ ত		morning max el	15955 Aug 12 01:04	11° Ω 12′29	23°32'32
morning set	15954 Oct 04 09:02	19° ≏ 29'34			15955 Aug 27 01:00	0° m þ	
max. Earth dist.	15954 Oct 07 21:41	25° ≏ 52'11	1.36873 AU		15955 Sep 15 11:20	0∘ ত	
	15954 Oct 10 02:52	0° M		morning set	15955 Sep 15 21:07	0° ჲ 41'05	
asc. node	15954 Oct 14 01:06	7°MJ33'02		max. Earth dist.	15955 Sep 19 20:14	7° ≏ 28'04	1.39273 AU
superior conj	15954 Oct 14 14:34	8°M39'08	0°05'05	superior conj	15955 Sep 27 12:56	21° ≏ 21'13	-0°29'40
minimum elong	15954 Oct 14 14:13	8°MJ37'25	0°05'27	minimum elong	15955 Sep 27 15:06	21° ♀ 31'21	0°29'05
behind sun begin	15954 Oct 14 08:03	8° M .07'07		asc. node	15955 Sep 30 21:48	27° ₽ 43′20	
behind sun end	15954 Oct 14 20:23	9° M ₊07'47			15955 Oct 02 02:17	0° M .	
evening rise	15954 Oct 22 19:27	25°M10'01		evening rise	15955 Oct 06 17:55	9° ጤ 01'31	
e vennig 1190	15954 Oct 25 05:13	0°×7		evening rise	15955 Oct 18 13:30	0° ∡ 7	
evening max el	15954 Nov 08 23:57	23° × 730'07	19°38'43	evening max el	15955 Oct 22 21:21	5° × 7'19'13	18°45'15
desc. node	15954 Nov 15 11:50	27° 🖈 50'07	17 30 43	retrograde	15955 Oct 31 06:29	9° × ⁷ 33'13	10 43 13
				-		9° × ¹ 20'50	
retrograde	15954 Nov 18 21:04	28° 🗷 26'19		evening set	15955 Nov 02 04:18		
evening set	15954 Nov 20 20:31	28° 🖈 15'23	101 5100	desc. node	15955 Nov 02 09:03	9° 🗷 18'11	000001
inferior conj	15954 Nov 29 13:06	24° ⋌ 12'19		inferior conj	15955 Nov 10 07:33	4° ∡ 758'01	
minimum elong	15954 Nov 29 03:18	24° ⋌ ¹27'45	4°11'30	minimum elong	15955 Nov 10 01:20	5° ⋌ ¹09'22	2°29'14
min. Earth dist.	15954 Dec 01 19:56	22° ∡ ¹45'59	0.55315 AU	min. Earth dist.	15955 Nov 13 08:56	2° х 44′30	0.56930 AU
morning rise	15954 Dec 07 08:21	19° ∡ ′54′20		morning rise	15955 Nov 17 19:18	0° ∡ 04'28	
direct	15954 Dec 12 14:15	18° ₹ ′53'04			15955 Nov 17 23:07	30°RM	
morning max el	15954 Dec 26 11:19	25° ∡ 50′22	24°57'33	direct	15955 Nov 23 19:14	28°M37'20	
	15954 Dec 30 09:24	0°₹			15955 Nov 29 16:54	0° ∡ ¹	
asc. node	15955 Jan 10 00:54	15° る 16'59		morning max el	15955 Dec 07 23:48	5° ∡ ¹58'54	26°31'51
	15955 Jan 17 21:22	0° ≈			15955 Dec 25 14:36	0°ರ	
morning set	15955 Jan 21 14:24	7° ≈ 47'39		asc. node	15955 Dec 27 22:04	4° る 06'45	
				morning set	15956 Jan 06 00:53	22° る 20'18	
superior conj	15955 Jan 28 08:21	22° ≈ 37'20	1°34'58	morning set	15956 Jan 06 00:53 15956 Jan 09 12:50	22°る20'18 0°≈	
superior conj minimum elong		22°≈37'20 22°≈43'13		morning set			
minimum elong	15955 Jan 28 09:25	22° ≈ 43'13	1°35'27	-	15956 Jan 09 12:50	0° ≈	1°38'06
	15955 Jan 28 09:25 15955 Jan 30 06:28	22°≈43'13 26°≈50'06		superior conj	15956 Jan 09 12:50 15956 Jan 12 19:02	0°≈ 7°≈16'20	
minimum elong max. Earth dist.	15955 Jan 28 09:25 15955 Jan 30 06:28 15955 Jan 31 17:31	22°≈43'13 26°≈50'06 0°¥	1°35'27	superior conj minimum elong	15956 Jan 09 12:50 15956 Jan 12 19:02 15956 Jan 12 19:03	0°≈ 7°≈16'20 7°≈16'25	1°38'46
minimum elong max. Earth dist.	15955 Jan 28 09:25 15955 Jan 30 06:28 15955 Jan 31 17:31 15955 Feb 04 16:17	22°≈43'13 26°≈50'06 0°¥ 8°¥18'36	1°35'27	superior conj minimum elong max. Earth dist.	15956 Jan 09 12:50 15956 Jan 12 19:02 15956 Jan 12 19:03 15956 Jan 13 12:31	0°≈ 7°≈16'20 7°≈16'25 8°≈53'54	
minimum elong max. Earth dist.	15955 Jan 28 09:25 15955 Jan 30 06:28 15955 Jan 31 17:31 15955 Feb 04 16:17 15955 Feb 11 11:49	22°≈43'13 26°≈50'06 0° ₩ 8° ₩ 18'36 21° ₩ 35'10	1°35'27	superior conj minimum elong	15956 Jan 09 12:50 15956 Jan 12 19:02 15956 Jan 12 19:03 15956 Jan 13 12:31 15956 Jan 19 17:39	0°≈ 7°≈16'20 7°≈16'25 8°≈53'54 22°≈27'45	1°38'46
minimum elong max. Earth dist. evening rise desc. node	15955 Jan 28 09:25 15955 Jan 30 06:28 15955 Jan 31 17:31 15955 Feb 04 16:17 15955 Feb 11 11:49 15955 Feb 16 06:00	22°≈43'13 26°≈50'06 0° ₭ 8° ₭18'36 21° ₭35'10 0° ♈	1°35'27 1.32009 AU	superior conj minimum elong max. Earth dist. evening rise	15956 Jan 09 12:50 15956 Jan 12 19:02 15956 Jan 12 19:03 15956 Jan 13 12:31 15956 Jan 19 17:39 15956 Jan 23 09:39	0°≈ 7°≈16'20 7°≈16'25 8°≈53'54 22°≈27'45 0°¥	1°38'46
minimum elong max. Earth dist.	15955 Jan 28 09:25 15955 Jan 30 06:28 15955 Jan 31 17:31 15955 Feb 04 16:17 15955 Feb 11 11:49 15955 Feb 16 06:00 15955 Mar 09 21:23	22°≈43'13 26°≈50'06 0° ₭ 8° ₭ 18'36 21° ₭ 35'10 0° ♀ 29° ♀ 17'01	1°35'27	superior conj minimum elong max. Earth dist.	15956 Jan 09 12:50 15956 Jan 12 19:02 15956 Jan 12 19:03 15956 Jan 13 12:31 15956 Jan 19 17:39 15956 Jan 23 09:39 15956 Jan 29 08:31	0°≈ 7°≈16'20 7°≈16'25 8°≈53'54 22°≈27'45 0° ₩ 11° ₩ 15'47	1°38'46
minimum elong max. Earth dist. evening rise desc. node evening max el	15955 Jan 28 09:25 15955 Jan 30 06:28 15955 Jan 31 17:31 15955 Feb 04 16:17 15955 Feb 11 11:49 15955 Feb 16 06:00 15955 Mar 09 21:23 15955 Mar 10 15:40	22°≈43'13 26°≈50'06 0°₩ 8°₩18'36 21°₩35'10 0°Ψ 29°Ψ17'01 0°₩	1°35'27 1.32009 AU	superior conj minimum elong max. Earth dist. evening rise desc. node	15956 Jan 09 12:50 15956 Jan 12 19:02 15956 Jan 12 19:03 15956 Jan 13 12:31 15956 Jan 19 17:39 15956 Jan 23 09:39 15956 Jan 29 08:31 15956 Feb 10 05:25	0°≈ 7°≈16'20 7°≈16'25 8°≈53'54 22°≈27'45 0° ₩ 11° ₩ 15'47 0° Υ	1°38'46 1.31242 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	15955 Jan 28 09:25 15955 Jan 30 06:28 15955 Jan 31 17:31 15955 Feb 04 16:17 15955 Feb 11 11:49 15955 Feb 16 06:00 15955 Mar 09 21:23 15955 Mar 10 15:40 15955 Mar 23 19:06	22°≈43'13 26°≈50'06 0°ℋ 8°ℋ18'36 21°ℋ35'10 0°Ƴ 29°Ƴ17'01 0°℧ 6°℧46'43	1°35'27 1.32009 AU	superior conj minimum elong max. Earth dist. evening rise desc. node	15956 Jan 09 12:50 15956 Jan 12 19:02 15956 Jan 12 19:03 15956 Jan 13 12:31 15956 Jan 19 17:39 15956 Jan 23 09:39 15956 Jan 29 08:31 15956 Feb 10 05:25 15956 Feb 20 04:52	0°≈ 7°≈16'20 7°≈16'25 8°≈53'54 22°≈27'45 0° ₩ 11° ₩ 15'47 0° Ψ 11° Υ 40'34	1°38'46 1.31242 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	15955 Jan 28 09:25 15955 Jan 30 06:28 15955 Jan 31 17:31 15955 Feb 04 16:17 15955 Feb 11 11:49 15955 Feb 16 06:00 15955 Mar 09 21:23 15955 Mar 10 15:40 15955 Mar 23 19:06 15955 Mar 30 14:35	22°≈43'13 26°≈50'06 0°ℋ 8°ℋ18'36 21°ℋ35'10 0°Ƴ 29°Ƴ17'01 0°℧ 6°℧46'43 4°℧26'57	1°35'27 1.32009 AU 27°36'15	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	15956 Jan 09 12:50 15956 Jan 12 19:02 15956 Jan 12 19:03 15956 Jan 13 12:31 15956 Jan 19 17:39 15956 Jan 23 09:39 15956 Jan 29 08:31 15956 Feb 10 05:25 15956 Feb 20 04:52 15956 Mar 05 05:12	0°≈ 7°≈16'20 7°≈16'25 8°≈53'54 22°≈27'45 0° ₩ 11° ₩ 15'47 0° Ψ 11° Ψ 40'34 19° Ψ 01'22	1°38'46 1.31242 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	15955 Jan 28 09:25 15955 Jan 30 06:28 15955 Jan 31 17:31 15955 Feb 04 16:17 15955 Feb 11 11:49 15955 Feb 16 06:00 15955 Mar 09 21:23 15955 Mar 10 15:40 15955 Mar 23 19:06 15955 Mar 30 14:35 15955 Apr 03 08:54	22°≈43'13 26°≈50'06 0° ℋ 8° ℋ18'36 21° ℋ35'10 0° ℉ 29° ℉17'01 0° ੴ 6° Წ46'43 4° Წ26'57 1° Წ19'40	1°35'27 1.32009 AU	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	15956 Jan 09 12:50 15956 Jan 12 19:02 15956 Jan 12 19:03 15956 Jan 13 12:31 15956 Jan 19 17:39 15956 Jan 23 09:39 15956 Jan 29 08:31 15956 Feb 10 05:25 15956 Feb 20 04:52 15956 Mar 05 05:12 15956 Mar 11 23:00	0°≈ 7°≈16'20 7°≈16'25 8°≈53'54 22°≈27'45 0° ¥ 11° ¥15'47 0° Y 11° Y40'34 19° Y01'22 16° Y58'56	1°38'46 1.31242 AU 27°21'13
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	15955 Jan 28 09:25 15955 Jan 30 06:28 15955 Jan 31 17:31 15955 Feb 04 16:17 15955 Feb 11 11:49 15955 Feb 16 06:00 15955 Mar 09 21:23 15955 Mar 10 15:40 15955 Mar 23 19:06 15955 Mar 30 14:35 15955 Apr 03 08:54 15955 Apr 04 17:41	22°≈43'13 26°≈50'06 0° ₩ 8° ₩18'36 21° ₩35'10 0° Ψ 29° ₩17'01 0° ₩ 6° ₩46'43 4° ₩26'57 1° ₩19'40 30° ₹ ₩	1°35'27 1.32009 AU 27°36'15 0.62876 AU	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	15956 Jan 09 12:50 15956 Jan 12 19:02 15956 Jan 13 12:31 15956 Jan 19 17:39 15956 Jan 23 09:39 15956 Jan 29 08:31 15956 Feb 10 05:25 15956 Feb 20 04:52 15956 Mar 05 05:12 15956 Mar 11 23:00 15956 Mar 15 19:04	0°≈ 7°≈16'20 7°≈16'25 8°≈53'54 22°≈27'45 0° ₩ 11° ₩ 15'47 0° Ψ 11° Ψ 40'34 19° Ψ 01'22 16° Ψ 58'56 14° Ψ 11'55	1°38'46 1.31242 AU 27°21'13 0.60660 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	15955 Jan 28 09:25 15955 Jan 30 06:28 15955 Jan 31 17:31 15955 Feb 04 16:17 15955 Feb 11 11:49 15955 Feb 16 06:00 15955 Mar 09 21:23 15955 Mar 10 15:40 15955 Mar 23 19:06 15955 Mar 30 14:35 15955 Apr 03 08:54 15955 Apr 04 17:41 15955 Apr 06 06:42	22°≈43'13 26°≈50'06 0° ₩ 8° ₩ 18'36 21° ₩ 35'10 0° Ψ 29° Ψ 17'01 0° ₩ 6° ₩ 46'43 4° ₩ 26'57 1° ₩ 19'40 30° ℝ Ψ 28° Ψ 28'02	1°35'27 1.32009 AU 27°36'15 0.62876 AU -0°31'27	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	15956 Jan 09 12:50 15956 Jan 12 19:02 15956 Jan 13 12:31 15956 Jan 19 17:39 15956 Jan 23 09:39 15956 Jan 29 08:31 15956 Feb 10 05:25 15956 Feb 20 04:52 15956 Mar 05 05:12 15956 Mar 11 23:00 15956 Mar 15 19:04 15956 Mar 18 23:33	0°≈ 7°≈16'20 7°≈16'25 8°≈53'54 22°≈27'45 0° ¥ 11°¥15'47 0° Υ 11°Y40'34 19°Y01'22 16°Y58'56 14°Y11'55 11°Y26'48	1°38'46 1.31242 AU 27°21'13 0.60660 AU -1°52'28
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	15955 Jan 28 09:25 15955 Jan 30 06:28 15955 Jan 31 17:31 15955 Feb 04 16:17 15955 Feb 11 11:49 15955 Feb 16 06:00 15955 Mar 09 21:23 15955 Mar 10 15:40 15955 Mar 23 19:06 15955 Mar 30 14:35 15955 Apr 03 08:54 15955 Apr 04 17:41 15955 Apr 06 06:42 15955 Apr 06 07:44	22°≈43'13 26°≈50'06 0° ₩ 8° ₩ 18'36 21° ₩ 35'10 0° Ψ 29° Ψ 17'01 0° ₩ 6° ₩ 46'43 4° ₩ 26'57 1° ₩ 19'40 30° ℝ Ψ 28° Ψ 28'02 28° Ψ 25'29	1°35'27 1.32009 AU 27°36'15 0.62876 AU	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	15956 Jan 09 12:50 15956 Jan 12 19:02 15956 Jan 13 12:31 15956 Jan 19 17:39 15956 Jan 23 09:39 15956 Jan 29 08:31 15956 Feb 10 05:25 15956 Feb 20 04:52 15956 Mar 05 05:12 15956 Mar 11 23:00 15956 Mar 15 19:04 15956 Mar 18 23:33 15956 Mar 19 03:41	0°≈ 7°≈16'20 7°≈16'25 8°≈53'54 22°≈27'45 0° ₩ 11° ₩ 15'47 0° Ψ 11° Ψ 40'34 19° Ψ 01'22 16° Ψ 58'56 14° Ψ 11'55 11° Ψ 26'48 11° Ψ 17'48	1°38'46 1.31242 AU 27°21'13 0.60660 AU -1°52'28
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	15955 Jan 28 09:25 15955 Jan 30 06:28 15955 Jan 31 17:31 15955 Feb 04 16:17 15955 Feb 11 11:49 15955 Feb 16 06:00 15955 Mar 09 21:23 15955 Mar 10 15:40 15955 Mar 23 19:06 15955 Mar 30 14:35 15955 Apr 03 08:54 15955 Apr 04 17:41 15955 Apr 06 06:42 15955 Apr 06 07:44 15955 Apr 07 22:06	22°≈43'13 26°≈50'06 0° ₩ 8° ₩ 18'36 21° ₩ 35'10 0° Ψ 29° Ψ 17'01 0° ₩ 6° ₩ 46'43 4° ₩ 26'57 1° ₩ 19'40 30° ℝ Ψ 28° Ψ 28'02 28° Ψ 25'29 26° Ψ 53'05	1°35'27 1.32009 AU 27°36'15 0.62876 AU -0°31'27	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	15956 Jan 09 12:50 15956 Jan 12 19:02 15956 Jan 13 12:31 15956 Jan 19 17:39 15956 Jan 23 09:39 15956 Jan 29 08:31 15956 Feb 10 05:25 15956 Feb 20 04:52 15956 Mar 05 05:12 15956 Mar 11 23:00 15956 Mar 15 19:04 15956 Mar 18 23:33	0°≈ 7°≈16'20 7°≈16'25 8°≈53'54 22°≈27'45 0° ₩ 11° ₩ 15'47 0° Ψ 11° Ψ 40'34 19° Ψ 01'22 16° Ψ 58'56 14° Ψ 11'55 11° Ψ 26'48 11° Ψ 17'48 7° Ψ 13'37	1°38'46 1.31242 AU 27°21'13 0.60660 AU -1°52'28
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minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	15955 Jan 28 09:25 15955 Jan 30 06:28 15955 Jan 31 17:31 15955 Feb 04 16:17 15955 Feb 11 11:49 15955 Feb 16 06:00 15955 Mar 09 21:23 15955 Mar 10 15:40 15955 Mar 23 19:06 15955 Mar 30 14:35 15955 Apr 03 08:54 15955 Apr 04 17:41 15955 Apr 06 06:42 15955 Apr 06 07:44 15955 Apr 07 22:06 15955 Apr 07 22:06 15955 Apr 13 03:40 15955 Apr 22 00:51 15955 Apr 25 08:20 15955 May 08 05:14 15955 May 10 13:17 15955 May 13 12:34	22°≈43'13 26°≈50'06 0°₩ 8°₩18'36 21°₩35'10 0°Ψ 29°Ψ17'01 0°℧ 6°℧46'43 4°℧26'57 1°℧19'40 30°ℝΨ 28°Ψ28'02 28°Ψ25'29 26°Ψ53'05 23°Ψ17'18 22°Ψ51'11 26°Ψ10'14 0°℧ 20°℧50'23 24°℧50'21	1°35'27 1.32009 AU 27°36'15 0.62876 AU -0°31'27 0°31'20 17°46'11	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj	15956 Jan 09 12:50 15956 Jan 12 19:02 15956 Jan 13 12:31 15956 Jan 19 17:39 15956 Jan 23 09:39 15956 Jan 29 08:31 15956 Feb 10 05:25 15956 Feb 20 04:52 15956 Mar 05 05:12 15956 Mar 11 23:00 15956 Mar 15 19:04 15956 Mar 18 23:33 15956 Mar 19 03:41 15956 Mar 24 19:28 15956 Mar 24 19:28 15956 Mar 26 11:45 15956 Apr 17 23:03 15956 Apr 17 23:03 15956 Apr 20 07:01 15956 Apr 26 10:03	0°≈ 7°≈16'20 7°≈16'25 8°≈53'54 22°≈27'45 0° ₩ 11° ₩ 15'47 0° Ψ 11° Ψ 40'34 19° Ψ 01'22 16° Ψ 58'56 14° Ψ 11'55 11° Ψ 26'48 11° Ψ 17'48 7° Ψ 13'37 6° Ψ 34'48 6° Ψ 16'50 9° Ψ 50'39 0° ৺ 4° ৺ 14'10 15° ৺ 20'01 23° ੴ 09'00	1°38'46 1.31242 AU 27°21'13 0.60660 AU -1°52'28 1°50'52 17°55'50
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj	15955 Jan 28 09:25 15955 Jan 30 06:28 15955 Jan 31 17:31 15955 Feb 04 16:17 15955 Feb 11 11:49 15955 Feb 16 06:00 15955 Mar 09 21:23 15955 Mar 10 15:40 15955 Mar 23 19:06 15955 Mar 30 14:35 15955 Apr 03 08:54 15955 Apr 03 08:54 15955 Apr 06 06:42 15955 Apr 06 07:44 15955 Apr 07 22:06 15955 Apr 07 22:06 15955 Apr 13 03:40 15955 Apr 22 00:51 15955 Apr 22 00:51 15955 Apr 25 08:20 15955 May 10 13:17 15955 May 10 13:17 15955 May 20 09:43 15955 May 20 09:43 15955 May 20 09:43	22°≈43'13 26°≈50'06 0° ₩ 8° ₩18'36 21° ₩35'10 0° Ψ 29° Ψ17'01 0° ℧ 6° ℧46'43 4° ℧26'57 1° ℧19'40 30° ℞ Ψ 28° Ψ28'02 28° Ψ25'29 26° Ψ53'05 23° Ψ17'18 22° Ψ51'11 26° Ψ10'14 0° ℧ 20° ℧50'23 24° ℧53'17 0° Щ	1°35'27 1.32009 AU 27°36'15 0.62876 AU -0°31'27 0°31'20 17°46'11	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj	15956 Jan 09 12:50 15956 Jan 12 19:02 15956 Jan 13 12:31 15956 Jan 19 17:39 15956 Jan 23 09:39 15956 Jan 29 08:31 15956 Feb 10 05:25 15956 Feb 20 04:52 15956 Mar 05 05:12 15956 Mar 15 19:04 15956 Mar 18 23:33 15956 Mar 19 03:41 15956 Mar 24 19:28 15956 Mar 24 19:28 15956 Mar 26 11:45 15956 Apr 27 23:03 15956 Apr 17 23:03 15956 Apr 20 07:01 15956 Apr 20 10:03	0°≈ 7°≈16'20 7°≈16'25 8°≈53'54 22°≈27'45 0° ₩ 11° ₩ 15'47 0° Ψ 11° Ψ 40'34 19° Ψ 01'22 16° Ψ 58'56 14° Ψ 11'55 11° Ψ 26'48 11° Ψ 17'48 7° Ψ 13'37 6° Ψ 34'48 6° Ψ 16'50 9° Ψ 50'39 0° ৺ 4° ৺ 14'10 15° ৺ 20'01 23° ੴ 09'00 22° ੴ 55'21	1°38'46 1.31242 AU 27°21'13 0.60660 AU -1°52'28 1°50'52 17°55'50
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	15955 Jan 28 09:25 15955 Jan 30 06:28 15955 Jan 31 17:31 15955 Feb 04 16:17 15955 Feb 11 11:49 15955 Feb 16 06:00 15955 Mar 09 21:23 15955 Mar 10 15:40 15955 Mar 23 19:06 15955 Mar 30 14:35 15955 Apr 03 08:54 15955 Apr 04 17:41 15955 Apr 06 06:42 15955 Apr 06 07:44 15955 Apr 07 22:06 15955 Apr 13 03:40 15955 Apr 13 03:40 15955 Apr 22 00:51 15955 Apr 22 00:51 15955 Apr 25 08:20 15955 May 10 13:17 15955 May 10 13:17 15955 May 20 09:43 15955 May 20 09:43 15955 May 20 02:50 15955 May 20 17:29	22°≈43'13 26°≈50'06 0° ₩ 8° ₩ 18'36 21° ₩ 35'10 0° Ψ 29° Ψ 17'01 0° ℧ 6° ℧ 46'43 4° ℧ 26'57 1° ℧ 19'40 30° ℝ Ψ 28° Ψ 28'02 28° Ψ 25'29 26° Ψ 53'05 23° Ψ 17'18 22° Ψ 51'11 26° Ψ 10'14 0° ℧ 20° ℧ 50'23 24° ℧ 53'17 0° Ⅱ 11° Ⅲ 34'30 11° Ⅲ 06'03	1°35'27 1.32009 AU 27°36'15 0.62876 AU -0°31'27 0°31'20 17°46'11	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	15956 Jan 09 12:50 15956 Jan 12 19:02 15956 Jan 13 12:31 15956 Jan 19 17:39 15956 Jan 23 09:39 15956 Jan 29 08:31 15956 Feb 10 05:25 15956 Feb 20 04:52 15956 Mar 05 05:12 15956 Mar 11 23:00 15956 Mar 18 23:33 15956 Mar 18 23:33 15956 Mar 24 19:28 15956 Mar 24 19:28 15956 Mar 26 11:45 15956 Mar 28 13:57 15956 Apr 04 16:44 15956 Apr 17 23:03 15956 Apr 20 07:01 15956 Apr 30 20:25 15956 Apr 30 20:25 15956 May 04 20:27 15956 May 08 07:38	0°≈ 7°≈16'20 7°≈16'25 8°≈53'54 22°≈27'45 0° ₩ 11° ₩ 15'47 0° Ψ 11° Ψ 40'34 19° Ψ 01'22 16° Ψ 58'56 14° Ψ 11'55 11° Ψ 26'48 11° Ψ 13'37 6° Ψ 34'48 6° Ψ 16'50 9° Ψ 50'39 0° ₩ 4° ₩ 14'10 15° ₩ 20'01 23° ₩ 09'00 22° ₩ 55'21 0° Π 5° Π 46'25	1°38'46 1.31242 AU 27°21'13 0.60660 AU -1°52'28 1°50'52 17°55'50
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	15955 Jan 28 09:25 15955 Jan 30 06:28 15955 Jan 31 17:31 15955 Feb 04 16:17 15955 Feb 11 11:49 15955 Feb 16 06:00 15955 Mar 09 21:23 15955 Mar 10 15:40 15955 Mar 23 19:06 15955 Mar 30 14:35 15955 Apr 03 08:54 15955 Apr 04 17:41 15955 Apr 06 06:42 15955 Apr 06 07:44 15955 Apr 07 22:06 15955 Apr 13 03:40 15955 Apr 13 03:40 15955 Apr 22 00:51 15955 Apr 22 00:51 15955 Apr 25 08:20 15955 May 08 05:14 15955 May 10 13:17 15955 May 10 13:17 15955 May 20 09:43 15955 May 20 09:43 15955 May 20 09:43 15955 May 20 02:50 15955 May 26 17:29 15955 May 31 21:32	22°≈43'13 26°≈50'06 0° ₩ 8° ₩18'36 21° ₩35'10 0° Ψ 29° Ψ17'01 0° ℧ 6° ℧46'43 4° ℧26'57 1° ℧19'40 30° ℟ Ψ 28° Ψ25'29 26° Ψ53'05 23° Ψ17'18 22° Ψ51'11 26° Ψ10'14 0° ℧ 20° ℧50'23 24° ℧53'17 0° Ⅱ 11° ∏34'30 11° ∏06'03 21° ∏50'39 0° ©	1°35'27 1.32009 AU 27°36'15 0.62876 AU -0°31'27 0°31'20 17°46'11	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	15956 Jan 09 12:50 15956 Jan 12 19:02 15956 Jan 13 12:31 15956 Jan 19 17:39 15956 Jan 23 09:39 15956 Jan 29 08:31 15956 Feb 10 05:25 15956 Feb 20 04:52 15956 Mar 05 05:12 15956 Mar 11 23:00 15956 Mar 15 19:04 15956 Mar 18 23:33 15956 Mar 19 03:41 15956 Mar 24 19:28 15956 Mar 26 11:45 15956 Mar 28 13:57 15956 Apr 04 16:44 15956 Apr 17 23:03 15956 Apr 20 07:01 15956 Apr 30 20:25 15956 Apr 30 20:25 15956 Apr 30 20:25 15956 May 04 20:27 15956 May 08 07:38 15956 May 14 07:21	0°≈ 7°≈16'20 7°≈16'25 8°≈53'54 22°≈27'45 0° ¥ 11° ¥15'47 0° Y 11° Y40'34 19° Y01'22 16° Y58'56 14° Y11'55 11° Y26'48 11° Y17'48 7° Y13'37 6° Y34'48 6° Y16'50 9° Y50'39 0° 8 4° 814'10 15° 820'01 23° 809'00 22° 855'21 0° II 5° II 46'25 15° II 25'31	1°38'46 1.31242 AU 27°21'13 0.60660 AU -1°52'28 1°50'52 17°55'50
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	15955 Jan 28 09:25 15955 Jan 30 06:28 15955 Jan 31 17:31 15955 Feb 04 16:17 15955 Feb 11 11:49 15955 Feb 16 06:00 15955 Mar 09 21:23 15955 Mar 10 15:40 15955 Mar 23 19:06 15955 Mar 30 14:35 15955 Apr 03 08:54 15955 Apr 04 17:41 15955 Apr 06 06:42 15955 Apr 07 22:06 15955 Apr 07 22:06 15955 Apr 13 03:40 15955 Apr 22 00:51 15955 Apr 22 00:51 15955 Apr 25 08:20 15955 May 08 05:14 15955 May 10 13:17 15955 May 10 13:17 15955 May 20 09:43 15955 May 20 09:43 15955 May 20 09:43 15955 May 20 17:29 15955 May 31 21:32 15955 Jun 04 09:12	22°≈43'13 26°≈50'06 0° ₩ 8° ₩18'36 21° ₩35'10 0° Ψ 29° Ψ17'01 0° ℧ 6° ℧46'43 4° ℧26'57 1° ℧19'40 30° ℝ Ψ 28° Ψ25'29 26° Ψ53'05 23° Ψ17'18 22° Ψ51'11 26° Ψ10'14 0° ℧ 20° ℧50'23 24° ℧53'17 0° Π 11° Щ34'30 11° Щ06'03 21° Щ50'39 0° © 5° © 23'47	1°35'27 1.32009 AU 27°36'15 0.62876 AU -0°31'27 0°31'20 17°46'11	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	15956 Jan 09 12:50 15956 Jan 12 19:02 15956 Jan 13 12:31 15956 Jan 19 17:39 15956 Jan 23 09:39 15956 Jan 29 08:31 15956 Feb 10 05:25 15956 Feb 20 04:52 15956 Mar 05 05:12 15956 Mar 11 23:00 15956 Mar 12 23:03 15956 Mar 14 23:33 15956 Mar 15 19:04 15956 Mar 24 19:28 15956 Mar 24 19:28 15956 Mar 26 11:45 15956 Mar 28 13:57 15956 Apr 04 16:44 15956 Apr 17 23:03 15956 Apr 20 07:01 15956 Apr 20 07:01 15956 Apr 30 20:25 15956 Apr 30 20:25 15956 Apr 30 20:25 15956 May 04 20:27 15956 May 08 07:38 15956 May 14 07:21 15956 May 23 19:24	0°≈ 7°≈16'20 7°≈16'25 8°≈53'54 22°≈27'45 0° ¥ 11° ¥15'47 0° Y 11° Y40'34 19° Y01'22 16° Y58'56 14° Y11'55 11° Y26'48 11° Y17'48 7° Y13'37 6° Y34'48 6° Y16'50 9° Y50'39 0° 8 4° 814'10 15° 820'01 23° 809'00 22° 855'21 0° II 5° II 46'25 15° II 25'31 0° ©	1°38'46 1.31242 AU 27°21'13 0.60660 AU -1°52'28 1°50'52 17°55'50
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	15955 Jan 28 09:25 15955 Jan 30 06:28 15955 Jan 31 17:31 15955 Feb 04 16:17 15955 Feb 11 11:49 15955 Feb 16 06:00 15955 Mar 09 21:23 15955 Mar 10 15:40 15955 Mar 23 19:06 15955 Mar 30 14:35 15955 Apr 03 08:54 15955 Apr 04 17:41 15955 Apr 06 06:42 15955 Apr 06 07:44 15955 Apr 07 22:06 15955 Apr 13 03:40 15955 Apr 13 03:40 15955 Apr 22 00:51 15955 Apr 22 00:51 15955 Apr 25 08:20 15955 May 08 05:14 15955 May 10 13:17 15955 May 10 13:17 15955 May 20 09:43 15955 May 20 09:43 15955 May 20 09:43 15955 May 20 02:50 15955 May 26 17:29 15955 May 31 21:32	22°≈43'13 26°≈50'06 0° ₩ 8° ₩18'36 21° ₩35'10 0° Ψ 29° Ψ17'01 0° ℧ 6° ℧46'43 4° ℧26'57 1° ℧19'40 30° ℟ Ψ 28° Ψ25'29 26° Ψ53'05 23° Ψ17'18 22° Ψ51'11 26° Ψ10'14 0° ℧ 20° ℧50'23 24° ℧53'17 0° Ⅱ 11° ∏34'30 11° ∏06'03 21° ∏50'39 0° ©	1°35'27 1.32009 AU 27°36'15 0.62876 AU -0°31'27 0°31'20 17°46'11 -1°13'54 1°13'43 1.44506 AU	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	15956 Jan 09 12:50 15956 Jan 12 19:02 15956 Jan 13 12:31 15956 Jan 19 17:39 15956 Jan 23 09:39 15956 Jan 29 08:31 15956 Feb 10 05:25 15956 Feb 20 04:52 15956 Mar 05 05:12 15956 Mar 11 23:00 15956 Mar 15 19:04 15956 Mar 18 23:33 15956 Mar 19 03:41 15956 Mar 24 19:28 15956 Mar 26 11:45 15956 Mar 28 13:57 15956 Apr 04 16:44 15956 Apr 17 23:03 15956 Apr 20 07:01 15956 Apr 30 20:25 15956 Apr 30 20:25 15956 Apr 30 20:25 15956 May 04 20:27 15956 May 08 07:38 15956 May 14 07:21	0°≈ 7°≈16'20 7°≈16'25 8°≈53'54 22°≈27'45 0° ¥ 11° ¥15'47 0° Y 11° Y40'34 19° Y01'22 16° Y58'56 14° Y11'55 11° Y26'48 11° Y17'48 7° Y13'37 6° Y34'48 6° Y16'50 9° Y50'39 0° 8 4° 814'10 15° 820'01 23° 809'00 22° 855'21 0° II 5° II 46'25 15° II 25'31	1°38'46 1.31242 AU 27°21'13 0.60660 AU -1°52'28 1°50'52 17°55'50

	150561 20 15 20	40.00000			15055 1 05 05 0		
asc. node	15956 Jun 20 17:30	4° Ω 29'07			15957 Apr 27 07:03	0°II	
retrograde	15956 Jun 25 06:01	5° Ω 57'21			15957 May 17 11:41	0°©	22027114
evening set	15956 Jun 29 23:32	3° £ 58′51		evening max el	15957 May 29 09:55	14°519'28	23°26'14
	15956 Jul 03 12:57	30°R≌	2007102	asc. node	15957 Jun 07 14:30	20°525'44	
inferior conj	15956 Jul 05 05:32 15956 Jul 05 04:53	27°540'36 27°542'52	3°06'03 3°05'18	retrograde	15957 Jun 09 01:38 15957 Jun 14 06:44	20°©34'58 18°©21'51	
minimum elong min. Earth dist.	15956 Jul 05 05:14	27°942'32	0.69120 AU	evening set min. Earth dist.	15957 Jun 19 01:58	18 3 21 31 12° 5 41'49	0.69023 AU
morning rise	15956 Jul 10 10:04	21°525'46	0.09120 AU	inferior conj	15957 Jun 19 01:38 15957 Jun 19 15:18	12 941 49 11°955'53	0.69023 AU 2°53'23
direct	15956 Jul 15 04:19	19° © 25'11		minimum elong	15957 Jun 19 13:51	12°900'56	2°52'23
desc. node	15956 Jul 23 09:23	23°9546'26		morning rise	15957 Jun 24 20:56	5°9349'07	2 32 23
morning max el	15956 Jul 24 14:17	24°956'08	22°04'32	direct	15957 Jun 29 02:59	4°907'56	
morning max ci	15956 Jul 29 03:26	0°Ω	22 0432	morning max el	15957 Jul 07 08:38	8°9549'51	20°44'00
	15956 Aug 19 11:03	0° m)		desc. node	15957 Jul 10 06:36	11°959'06	20 44 00
morning set	15956 Aug 26 09:38	10° m ₂ 52'37		dese. Hode	15957 Jul 23 15:01	0°Ω	
max. Earth dist.	15956 Aug 31 22:35	19° m 55'24	1.41614 AU	morning set	15957 Aug 06 00:05	20° Ω 09'09	
man. Darun dist.	15956 Sep 06 20:43	0∘ ⊽	1	morning sec	15957 Aug 12 06:31	0° m)	
		• —		max. Earth dist.	15957 Aug 14 07:10	3° m) 14'47	1.43625 AU
superior conj	15956 Sep 08 17:24	3° £ 15'40	-1°06'25				
minimum elong	15956 Sep 08 22:47	3° ₽ 39'22		superior conj	15957 Aug 20 23:49	14° m) 13'16	-1°40'42
asc. node	15956 Sep 16 18:28	17° ≏ 49'16		minimum elong	15957 Aug 21 07:32	14° m) 45'32	
evening rise	15956 Sep 19 06:17	22° £ 26'14			15957 Aug 30 04:57	0∘ <u>⊽</u>	
· ·	15956 Sep 23 08:55	0° M .		evening rise	15957 Sep 02 04:03	5° ≏ 12'16	
evening max el	15956 Oct 05 04:41	17°ML51'20	18°13'22	asc. node	15957 Sep 03 15:06	7° ≏ 46'39	
retrograde	15956 Oct 12 11:25	21°MJ34'31			15957 Sep 17 20:09	0° M .	
evening set	15956 Oct 14 14:05	21°M16'19		evening max el	15957 Sep 18 17:41	0°M56'15	18°01'29
desc. node	15956 Oct 19 06:19	18°ML45'07		retrograde	15957 Sep 25 08:30	4°ML21'37	
inferior conj	15956 Oct 21 23:52	16°ML31'57	-0°52'32	evening set	15957 Sep 27 18:40	3°M53'45	
minimum elong	15956 Oct 21 21:58	16°MJ36'03	0°51'14		15957 Oct 03 06:48	30° ₹ Ω	
min. Earth dist.	15956 Oct 25 05:59	13°M46'04	0.59029 AU	inferior conj	15957 Oct 04 11:50	28° ≏ 49'45	0°30'49
morning rise	15956 Oct 29 02:26	11°ML02'34		minimum elong	15957 Oct 04 12:46	28° ≏ 47'27	0°30'46
direct	15956 Nov 04 13:39	9°M09'12		desc. node	15957 Oct 06 03:39	27° £ 11'14	
morning max el	15956 Nov 18 20:35	16°M50'33	27°34'54	min. Earth dist.	15957 Oct 07 12:49	25° ≏ 51'14	0.61319 AU
	15956 Nov 29 17:39	0° ∡ ¹		morning rise	15957 Oct 11 03:58	22° ≏ 52'18	
asc. node	15956 Dec 13 19:07	23° х 26'14		direct	15957 Oct 17 20:06	20° ≏ 36'18	
	15956 Dec 17 03:04	0°ಕ		morning max el	15957 Nov 01 00:53	28° ≏ 31'31	27°58'59
morning set	15956 Dec 20 08:11	6° る 40'25			15957 Nov 02 11:32	0° M	
		_			15957 Nov 23 14:30	0° ∡ ¹	
superior conj	15956 Dec 27 06:30	21° る 54'23	1°35'13	asc. node	15957 Nov 30 16:05	13° ∡ ¹06'41	
minimum elong	15956 Dec 27 05:29	21° る 48'45		morning set	15957 Dec 04 10:13	20° ∡ ¹42'12	
max. Earth dist.	15956 Dec 26 20:24		1.31004 AU		15957 Dec 08 18:51	0°る	
	15956 Dec 30 21:27	0° ≈		max. Earth dist.	15957 Dec 10 02:09	2° る 51'36	1.31317 AU
evening rise	15957 Jan 03 00:05	6°≈48'05			15057 D 11 16 50	60 7 05105	102(110
1 1	15957 Jan 14 22:51	0° \		superior conj	15957 Dec 11 16:50	6° る 25'35	1°26'19
desc. node evening max el	15957 Jan 15 05:16 15957 Feb 01 05:16	0° ∺ 27'18 23° ∺ 12'56	26920150	minimum elong	15957 Dec 11 14:59 15957 Dec 18 09:35	6°る15'21 21°る14'04	1°26'55
evening max er	15957 Feb 01 03:16 15957 Feb 12 03:59	25 χ 12 30 0° Υ	20 30 39	evening rise	15957 Dec 22 13:37	21 3 14 04 0° ≈	
retrograde	15957 Feb 12 05:39 15957 Feb 15 05:05	0° Υ 22'29		desc. node	15958 Jan 02 02:05	0 ≈ 18°≈58'10	
renograde	15957 Feb 18 05:28	0 1 22 29 30°R ∺		desc. Hode	15958 Jan 10 04:53	0° X	
evening set	15957 Feb 21 14:04	28°) 43'31		evening max el	15958 Jan 13 21:07	2.2	25°09'31
min. Earth dist.	15957 Feb 25 18:44	26° ₩ 05'56	0.58437 AU	retrograde	15958 Jan 27 17:10	10°) 48'46	25 07 51
inferior conj	15957 Feb 28 22:32	23°) 44'07		evening set	15958 Feb 02 08:11	9°) 37'31	
minimum elong	15957 Mar 01 06:12	23° H 29'42		min. Earth dist.	15958 Feb 07 09:29	6° ¥ 53'57	0.56456 AU
morning rise	15957 Mar 09 01:44	19°) 13'34		inferior conj	15958 Feb 10 00:42	5°) 11′08	
direct	15957 Mar 11 00:56	19°) €00'13		minimum elong	15958 Feb 10 10:04	4° ¥ 55'52	4°45'40
asc. node	15957 Mar 11 16:49	19°) €01'46		morning rise	15958 Feb 18 14:36	1° ¥ 01'58	
morning max el	15957 Mar 19 03:07	22° ¥ 59'57	18°25'07	direct	15958 Feb 20 16:53	0°) 49′23	
-	15957 Mar 24 16:02	0° Y		asc. node	15958 Feb 26 14:10	2° 升 35'51	
morning set	15957 Apr 03 22:29	18° Ƴ 14'20		morning max el	15958 Mar 02 03:49	5° ¥ 25'54	19°16'03
	15957 Apr 10 02:57	8°			15958 Mar 17 15:27	0° Y	
				morning set	15958 Mar 18 23:20	2° Y 37'56	
superior conj	15957 Apr 13 04:32	5° 8 41'19	0°00'47				
minimum elong	15957 Apr 13 04:33	5° 8 41'26	0°00'23	superior conj	15958 Mar 27 05:42	18° Ƴ 59'05	0°32'33
behind sun begin	15957 Apr 12 21:20	5° 8 08'18		minimum elong	15958 Mar 27 07:35	19° Y 08'10	0°32'03
behind sun end	15957 Apr 13 11:46	6° 8 14'29		desc. node	15958 Mar 31 03:24	26° Y 23'52	
desc. node	15957 Apr 13 06:45	5° 8 51'33			15958 Apr 02 02:18	0° 8	
max. Earth dist.	15957 Apr 20 16:56	19° 8 01'40	1.40710 AU	max. Earth dist.	15958 Apr 02 22:57	1° 8 33'44	1.38419 AU
evening rise	15957 Apr 25 01:18	26° 8 20'30		evening rise	15958 Apr 06 16:25	8° 8 09'59	

	15958 Apr 20 04:15	$\Pi^{\circ}0$			15959 Mar 25 07:17	0°B	
evening max el	15958 May 11 23:23	28° Ⅱ 14'08	24°46'36		15959 Apr 14 02:44	0°II	
evening max er	15958 May 13 20:17	0°95	24 40 50	evening max el	15959 Apr 24 12:59	12° Ⅱ 06'40	25°58'58
retrograde	15958 May 23 17:42	5°906'08		retrograde	15959 May 07 05:04	12 H 0040 19° H 23'10	23 38 38
•	•			•	•	19 Ⅲ 23 10 17° Ⅲ 37'24	
asc. node	15958 May 25 11:33	4°553'19		asc. node	15959 May 12 08:43		
evening set	15958 May 29 10:13	2°5541'49		evening set	15959 May 13 08:13	16° Ⅲ 52'15	
	15958 Jun 01 00:29	30°RⅡ		min. Earth dist.	15959 May 17 12:20	12° Ⅲ 25'15	0.67403 AU
min. Earth dist.	15958 Jun 02 21:04	27° Ⅱ 38'48	0.68443 AU	inferior conj	15959 May 19 03:34	10° Ⅱ 22'09	1°55'49
inferior conj	15958 Jun 03 23:20	26° Ⅱ 11'28	2°30'11	minimum elong	15959 May 19 01:24	10° Ⅱ 28'58	1°54'27
minimum elong	15958 Jun 03 21:19	26° Ⅱ 18'13	2°28'57	morning rise	15959 May 24 19:17	4° Ⅱ 35′09	
morning rise	15958 Jun 09 08:38	20° Ⅱ 13'54		direct	15959 May 28 02:57	3° Ⅲ 32′21	
direct	15958 Jun 13 03:04	18° Ⅱ 52′26		morning max el	15959 Jun 03 18:18	7° Ⅱ 05'53	18°43'26
morning max el	15958 Jun 20 09:57	22° Ⅲ 54'12	19°36'01	desc. node	15959 Jun 14 00:49	20° Ⅱ 26'40	
Č	15958 Jun 26 10:45	0°95		greatest brilliancy	15959 Jun 18 14:27	27° Ⅲ 22'34	-0.8m
desc. node	15958 Jun 27 03:45	0°956'39		<i>g </i>	15959 Jun 20 07:14	0°ಅ	
greatest brilliancy	15958 Jul 03 04:21	9° © 27'28	-0.6m	morning set	15959 Jun 25 17:04	8°9524'40	
		29° © 01'56	-0.0111	morning set	15959 Jul 09 13:39	0°Ω	
morning set	15958 Jul 16 03:57			n d ti			1 45006 411
P. J. P.	15958 Jul 16 19:05	0° Ω	1 45005 477	max. Earth dist.	15959 Jul 10 16:09	1°8743'22	1.45886 AU
max. Earth dist.	15958 Jul 27 21:31	17° 31 15'32	1.45095 AU				
		_		superior conj	15959 Jul 11 20:03	3° Ω 32′16	
superior conj	15958 Aug 01 06:52	24° Ω 13'33		minimum elong	15959 Jul 11 19:32	3° Ω 30′14	2°14'54
minimum elong	15958 Aug 01 13:06	24° Ω 38′29	2°05'55	evening rise	15959 Jul 27 07:21	27° Ω 57'41	
	15958 Aug 04 21:00	0° m y			15959 Jul 28 13:59	0° m y	
evening rise	15958 Aug 15 05:56	17° m 06'26		asc. node	15959 Aug 08 08:27	16° m 57'15	
asc. node	15958 Aug 21 11:46	27° m 31'18		evening max el	15959 Aug 16 22:08	28° m 07'59	18°32'50
	15958 Aug 23 00:06	0∘ ⊽			15959 Aug 19 02:23	0∘ ত	
evening max el	15958 Sep 02 08:36	14° ≏ 24'52	18°08'17	retrograde	15959 Aug 23 09:48	1° ≏ 37'17	
retrograde	15958 Sep 08 17:19	17° ≏ 45'36		evening set	15959 Aug 26 13:46	0° ჲ 40'40	
evening set	15958 Sep 11 12:04	17° Ω 04'40		5 · • · · · · · · · · · · · · · · · · ·	15959 Aug 27 13:46	30°R, M)	
inferior conj	15958 Sep 17 15:31	11° ≏ 43'27	1°34'23	inferior conj	15959 Sep 01 06:57	25° m) 04'13	2°19'31
minimum elong	15958 Sep 17 15:51 15958 Sep 17 17:41	11° ⊆ 37'26	1°33'45	minimum elong	15959 Sep 01 00:37 15959 Sep 01 09:13	24° m) 57'18	2°18'49
•		8° £ 52'18		min. Earth dist.	-		0.65517 AU
min. Earth dist.	15958 Sep 20 05:40		0.63546 AU		15959 Sep 03 07:38	22° M) 36'46	0.03317 AU
desc. node	15958 Sep 23 01:01	6° Ω 09'05		morning rise	15959 Sep 07 03:29	18° m/40'02	
morning rise	15958 Sep 23 21:17	5° Ω 28'11		desc. node	15959 Sep 09 22:26	16° m 51'32	
direct	15958 Sep 30 12:34	2° Ω 56'54		direct	15959 Sep 13 13:03	16° Mp 02'37	
morning max el	15958 Oct 14 09:56	10° ≏ 56′05	27°44'48	morning max el	15959 Sep 26 21:01	23° m 52'56	26°58'25
	15958 Oct 29 11:45	0° M			15959 Oct 02 08:52	0∘ ⊽	
	15958 Nov 16 00:03	0° ∡ ¹			15959 Oct 22 20:44	0° M ₊	
asc. node	15958 Nov 17 13:00	3° ₮ 01'56		morning set	15959 Nov 01 12:50	17° M 28'41	
morning set	15958 Nov 18 04:43	4° ₮ 20'26		asc. node	15959 Nov 04 09:51	23°M06'42	
max. Earth dist.	15958 Nov 23 01:56	14° ∡ ¹27′06	1.32201 AU	max. Earth dist.	15959 Nov 05 16:56	25° M 42'49	1.33643 AU
					15959 Nov 07 19:12	0° ∡ ¹	
superior conj	15958 Nov 26 00:07	20° ∡ ¹44'59	1°11'19				
minimum elong	15958 Nov 25 21:48	20° ∡ ³32′23	1°11'45	superior conj	15959 Nov 10 02:07	4° ∡ ¹46'52	0°50'13
S	15958 Nov 30 05:32	0°₹		minimum elong	15959 Nov 09 23:54	4° ∡ ³35′09	0°50'31
evening rise	15958 Dec 02 20:23	5° ರ 41'42		evening rise	15959 Nov 17 06:38	20° х 06'47	
evening rise	15958 Dec 15 12:35	0°≈		evening rise	15959 Nov 22 01:50	0°る	
desc. node	15958 Dec 19 22:59	6° ≈ 33'54		desc. node	15959 Dec 06 19:59	22° ろ 55'36	
	15958 Dec 26 07:06	13°≈55'09	22020150	evening max el	15959 Dec 07 19:17	23° る 54'48	21°47'14
evening max el			23 20 30	evening max er			21 4/14
retrograde	15959 Jan 08 15:42	20°≈31'57			15959 Dec 19 15:55	0° ≈	
evening set	15959 Jan 13 03:37	19° ≈ 48'12		retrograde	15959 Dec 20 03:12	0° ≈ 00'31	
min. Earth dist.	15959 Jan 19 18:05	16° ≈ 40′19	0.55025 AU		15959 Dec 20 14:32	30°Ŗる	
inferior conj	15959 Jan 21 06:34	15° ≈ 47'11	-5°49'07	evening set	15959 Dec 23 08:17	29° る 37'21	
minimum elong	15959 Jan 21 12:06	15° ≈ 39'07	5°47'54	inferior conj	15959 Dec 31 23:07	25° る 46'55	-5°57'58
morning rise	15959 Jan 29 22:01	11° ≈ 54'18		minimum elong	15959 Dec 31 19:34	25° る 51'54	5°56'59
direct	15959 Feb 01 13:47	11° ≈ 37′08		min. Earth dist.	15959 Dec 31 23:30	25° ⋜ 46′23	0.54405 AU
morning max el	15959 Feb 12 14:49	16° ≈ 57'28	20°30'11	morning rise	15960 Jan 09 07:31	21° る 59'07	
asc. node	15959 Feb 13 11:31	17° ≈ 49'22		direct	15960 Jan 12 22:54	21° る 30'05	
	15959 Feb 22 06:24	0° ∀		morning max el	15960 Jan 25 10:52	27° る 33'15	22°06'08
morning set	15959 Mar 03 06:17	17°) 15'14			15960 Jan 27 19:23	0° ≈	
	15959 Mar 09 10:19	0° Υ		asc. node	15960 Jan 31 08:50	4° ≈ 25'31	
	10,000 Ividi 00 10.19	V I		abe. Houe	15960 Feb 14 18:08	4 ≈ 23 31	
superior con:	15050 Mar 10 10:41	2° Y ′50'03	0°58'15	morning set		0 X 1° ¥ 59'09	
superior conj	15959 Mar 10 19:41			morning set	15960 Feb 15 16:49	1 八つりりり	
minimum elong	15959 Mar 10 22:13	3°Y02'55	0°57'55		15060 E 1 22 12 55	1701/0445	1017/21
max. Earth dist.	15959 Mar 16 06:16	13° ℃ 35'01	1.36194 AU	superior conj	15960 Feb 22 18:55	17°) €04'46	
desc. node	15959 Mar 18 00:02	16° ℃ 53'11		minimum elong	15960 Feb 22 21:16	17°) 17'07	
evening rise	15959 Mar 20 02:13	20° Ƴ 45'50		max. Earth dist.	15960 Feb 26 19:35	25° ¥ 25'54	1.34239 AU

	15960 Feb 29 02:17	0° Ƴ		superior conj	15961 Feb 06 00:25		1°30'23
evening rise	15960 Mar 02 03:12	3° Y 58'33		minimum elong	15961 Feb 06 02:02	1°) 42′43	1°30'42
desc. node	15960 Mar 03 20:41	7° Y 15'48		max. Earth dist.	15961 Feb 08 16:23	7° ∺ 18'43	1.32688 AU
	15960 Mar 17 03:28	0° 8		evening rise	15961 Feb 13 15:49	17° ∺ 38'11	
evening max el	15960 Apr 06 02:56	25° 8 49'49	26°55'42	desc. node	15961 Feb 18 17:20	27° ∺ 26'24	
	15960 Apr 11 00:31	0°П			15961 Feb 20 02:41	0° Υ	
retrograde	15960 Apr 19 10:40	3° Ⅱ 18'40			15961 Mar 11 11:58	0°8	
evening set	15960 Apr 25 22:51	0° Ⅱ 46'36		evening max el	15961 Mar 19 15:51	9° 8 11'00	27°29'34
	15960 Apr 26 21:03	30°₹ ႘		retrograde	15961 Apr 02 09:38	16° 8 42'38	
asc. node	15960 Apr 28 05:56	28° 8 41'13	0.65025 ATT	evening set	15961 Apr 09 03:53	14° 8 16'01	0.64004.444
min. Earth dist.	15960 Apr 29 21:40	26° 8 53'47 24° 8 22'51	0.65935 AU 1°09'15	min. Earth dist.	15961 Apr 12 23:02	10° 8 53'55	0.64084 AU
inferior conj	15960 May 02 01:45	24° 8 22'31	1°09'13 1°08'04	asc. node	15961 Apr 15 03:14	8° 8 37'14 8° 8 05'51	0°09'20
minimum elong morning rise	15960 May 02 00:05 15960 May 08 02:42	18° 8 48'10	1 00 04	inferior conj minimum elong	15961 Apr 15 15:07 15961 Apr 15 14:51	8° 8 06'33	0°08'49
direct	15960 May 11 00:30	18° 8 01'55		transit middle	15961 Apr 15 14:51	8° 8 06'33	0°08'49
morning max el	15960 May 17 08:20	21° 8 20'04	18°07'35	transit begin	15961 Apr 15 14:31 15961 Apr 15 12:15	8° 8 13'24	0 00 49
morning max ci	15960 May 17 08:20 15960 May 24 05:32	0° Ⅱ	16 07 33	transit end	15961 Apr 15 17:26	7° 8 59'42	
desc. node	15960 May 30 21:49	10° Ⅱ 20'37		morning rise	15961 Apr 22 04:05	2° 8 45'51	
morning set	15960 Jun 05 06:40	18° Ⅱ 59'15		direct	15961 Apr 24 17:02	2°813'20	
morning sec	15960 Jun 12 03:21	0°95		morning max el	15961 May 01 01:33	5° B 28'26	17°48'58
	13,00 3411 12 03.21	۰٠		morning max or	15961 May 17 11:18	0°II	17 1030
superior conj	15960 Jun 20 05:49	12°9548'07	-2°02'34	morning set	15961 May 17 23:24	0° П 51'08	
minimum elong	15960 Jun 19 22:32	12°9519'34	2°02'55	desc. node	15961 May 17 18:42	0° П 31'17	
max. Earth dist.	15960 Jun 22 12:54	16°923'35	1.45930 AU		,		
	15960 Jul 01 07:03	$0^{\circ}\Omega$		superior conj	15961 May 31 04:42	22° I I43'59	-1°34'28
evening rise	15960 Jul 06 08:55	7° Ω 51'17		minimum elong	15961 May 30 20:19	22° I I10'12	1°34'20
greatest brilliancy	15960 Jul 18 06:32	26° Ω 03'42	-0.7m	Č	15961 Jun 04 17:57	0° ©	
,	15960 Jul 20 22:38	0° m)		max. Earth dist.	15961 Jun 05 08:40	0°958'08	1.45222 AU
asc. node	15960 Jul 25 05:12	5° m 57'53		evening rise	15961 Jun 15 20:30	17°5915'33	
evening max el	15960 Jul 30 07:40	11° m 58'41	19°14'12		15961 Jun 24 06:44	$0^{\circ}\Omega$	
retrograde	15960 Aug 06 06:46	15° m 49'37		asc. node	15961 Jul 12 02:00	24° Ω 24'34	
evening set	15960 Aug 09 20:27	14° m 35'43		evening max el	15961 Jul 13 11:28	25° Ω 52'06	20°11'01
inferior conj	15960 Aug 15 06:46	8° m 45'37	2°48'49		15961 Jul 19 10:59	0° ™	
minimum elong	15960 Aug 15 08:29	8° Mp 40'01	2°48'10	retrograde	15961 Jul 21 05:43	0° Mp 16'37	
min. Earth dist.	15960 Aug 16 17:19	6° Mp 53′17	0.67113 AU		15961 Jul 22 22:59	30° R Ω	
morning rise	15960 Aug 20 19:53	2° m 19'04		evening set	15961 Jul 25 05:40	28° Ω 44'58	
	15960 Aug 24 20:52	30°R Ω		inferior conj	15961 Jul 30 12:13	22° Ω 42'40	3°04'37
direct	15960 Aug 26 20:18	29° Ω 44'08		minimum elong	15961 Jul 30 13:04	22° Ω 39'45	3°04'01
desc. node	15960 Aug 26 19:51	29° Ω 44'08		min. Earth dist.	15961 Jul 31 08:54	21° £ 32′09	0.68265 AU
	15960 Aug 28 21:53	0° m)		morning rise	15961 Aug 04 20:06	16° Ω 18'16	
morning max el	15960 Sep 08 08:23	7° Mp 11'21	25°48'17	direct	15961 Aug 10 09:23	13° £ 52'49	
	15960 Sep 26 03:16	0∘ ⊽		desc. node	15961 Aug 13 17:14	14° Ω 36'27	
morning set	15960 Oct 14 07:04	29° ₽ 58'43		morning max el	15961 Aug 21 19:24	20° Ω 42'44	24°23'53
E d E d	15960 Oct 14 07:21	0°M €0 m 47127	1 25505 ATT		15961 Aug 29 19:29	0° m)	
max. Earth dist.	15960 Oct 17 22:35		1.35585 AU	. ,	15961 Sep 19 07:51	0° ™	
asc. node	15960 Oct 21 06:37	13°M16'24		morning set	15961 Sep 26 07:25	11° Ω 41'59	1 27070 AII
superior conj	15060 Oat 22 20:05	18° M 23'51	0022100	max. Earth dist.	15961 Sep 29 22:02 15961 Oct 06 08:17	18° ≙ 04'17 0° ™	1.37878 AU
minimum elong	15960 Oct 23 20:05 15960 Oct 23 18:45	18°ML17'11			13901 Oct 00 08.17	U IIG	
minimum ciong	15960 Oct 29 11:23	0° ∡ ¹	0 23 20	superior conj	15961 Oct 07 02:42	1° M 28'22	0°00'14
evening rise	15960 Oct 29 11.23 15960 Oct 31 14:17	0 x . 4° x 23'38		minimum elong	15961 Oct 07 02:42 15961 Oct 07 03:18	1°M31'15	
evening rise	15960 Nov 14 23:07	0°る		behind sun begin	15961 Oct 06 21:32	1°M03'30	0 00 47
evening max el	15960 Nov 18 18:29	4° る 25'31	20°19'34	behind sun end	15961 Oct 07 09:04	1°ML59'03	
desc. node	15960 Nov 22 17:05	7° る 38'52	20 17 3 1	asc. node	15961 Oct 08 03:20	3°M27'30	
retrograde	15960 Nov 29 14:16	9° ろ 48'49		evening rise	15961 Oct 15 16:57	18°M26'36	
evening set	15960 Dec 01 20:18	9° る 35'55			15961 Oct 21 16:09	0° ∡ 7	
inferior conj	15960 Dec 10 15:51	5° る 40'22	-5°06'03	evening max el	15961 Nov 01 08:14		19°13'15
minimum elong	15960 Dec 10 06:09	5° る 54'41		desc. node	15961 Nov 09 14:16	20° ∡ ¹20'31	•
min. Earth dist.	15960 Dec 12 05:14	4° ප 45'15	0.54720 AU	retrograde	15961 Nov 10 13:26	20° ∡ ¹23'28	
morning rise	15960 Dec 18 15:29	1° ⋜ 38'58		evening set	15961 Nov 12 10:48	20° ∡ 12'36	
direct	15960 Dec 23 08:16	0° る 51'21		inferior conj	15961 Nov 20 22:37	16° ∡ °01'31	-3°32'46
morning max el	15961 Jan 05 20:51	7° ට 30'34	23°55'21	minimum elong	15961 Nov 20 14:00		3°28'58
asc. node	15961 Jan 17 06:07	22° පි 05'11		min. Earth dist.	15961 Nov 23 15:02	14° ∡ 13'50	0.55914 AU
	15961 Jan 21 20:53	0° ≈		morning rise	15961 Nov 28 14:45	11° ∡ ¹28'51	
morning set	15961 Jan 30 04:46	16° ≈ 42'35		direct	15961 Dec 04 04:46	10° ∡ 17′07	
	15961 Feb 05 07:11	0° ∀		morning max el	15961 Dec 18 06:23	17° ∡ ¹25'45	25°40'41
					15961 Dec 28 14:13	0°ჳ	

asc. node	15962 Jan 04 03:19	10° る 32'55			15962 Dec 02 01:05	0° ∡ 7	
asc. node	15962 Jan 14 01:17	0°≈		asc. node	15962 Dec 22 00:25	29° 🖈 35'52	
morning set	15962 Jan 14 16:17	1°≈20'35		use. Hode	15962 Dec 22 05:34	0°る	
morning sec	10,02 0411 11 10.17	1 10 20 30		morning set	15962 Dec 30 01:37	15° る 48'02	
superior conj	15962 Jan 21 09:48	16° ≈ 11'09	1°37'02				
minimum elong	15962 Jan 21 10:26	16° ≈ 14'39	1°37'37	superior conj	15963 Jan 05 21:03	0° ≈ 50'12	1°37'37
max. Earth dist.	15962 Jan 22 19:39	19° ≈ 18′25	1.31617 AU	minimum elong	15963 Jan 05 20:37	0° ≈ 47'48	1°38'19
	15962 Jan 27 18:28	0° ∀			15963 Jan 05 12:05	0° ≈	
evening rise	15962 Jan 28 13:14	1°) 38′07		max. Earth dist.	15963 Jan 06 02:41	1° ≈ 21'45	1.31065 AU
desc. node	15962 Feb 05 14:00	17°) 19'48		evening rise	15963 Jan 12 16:58	15° ≈ 52'15	
	15962 Feb 13 00:43	0° Υ			15963 Jan 19 17:03	0°) €	
evening max el	15962 Mar 02 01:49	21° Y ′58′23	27°33'56	desc. node	15963 Jan 23 10:44	6°) 49′03	
retrograde	15962 Mar 16 01:05	29° Y 25'26			15963 Feb 08 10:04	0° Y	
evening set	15962 Mar 22 20:43	27° Y 11'48		evening max el	15963 Feb 12 06:33	4° Y ′01′07	27°04'12
min. Earth dist.	15962 Mar 26 14:59	24° Y 14'29	0.61952 AU	retrograde	15963 Feb 26 07:29	11° Y 18'08	
inferior conj	15962 Mar 29 16:28	21° Y 23'15	-1°04'21	evening set	15963 Mar 04 22:16	9° Y 25'04	
minimum elong	15962 Mar 29 18:42	21° Y 18'01	1°03'38	min. Earth dist.	15963 Mar 08 20:52	6° Ƴ 43'27	0.59695 AU
asc. node	15962 Apr 02 00:35	18° Y 28'55		inferior conj	15963 Mar 12 02:12	4° Y 05'58	
morning rise	15962 Apr 05 19:50	16° Ƴ 20′29		minimum elong	15963 Mar 12 07:52	3° Y 54'21	2°27'42
direct	15962 Apr 08 01:15	15° Y 58′20			15963 Mar 18 02:57	30° ₹ ₩	
morning max el	15962 Apr 14 18:57	19° Y ′22'11	17°47'59	morning rise	15963 Mar 19 21:01	29° ∺ 22'55	
	15962 Apr 22 15:32	0°8		asc. node	15963 Mar 19 21:57	29° ∺ 22'20	
morning set	15962 Apr 30 14:49	13° 8 46'14		direct	15963 Mar 21 21:13	29° ∺ 07'28	
desc. node	15962 May 04 15:29	20° 8 53'21			15963 Mar 25 12:07	0° Υ	
	15962 May 09 21:35	Π °0		morning max el	15963 Mar 29 09:02	2° Y 51'20	18°05'44
				morning set	15963 Apr 13 23:04	27° Y °27'42	
superior conj	15962 May 12 01:53	3° Ⅱ 41'54			15963 Apr 15 07:49	0°8	
minimum elong	15962 May 11 20:32	3° Ⅱ 19′23		desc. node	15963 Apr 21 12:13	11° 8 22'47	
max. Earth dist.	15962 May 19 00:49	15° Ⅱ 10'17	1.43847 AU				
evening rise	15962 May 26 10:31	26° ∏ 53'03		superior conj	15963 Apr 23 22:11	15° 8 42'46	
	15962 May 28 10:58	0°95		minimum elong	15963 Apr 23 20:32	15° 8 35'25	
	15962 Jun 18 03:50	0°N	21020140	max. Earth dist.	15963 May 01 12:27	28° 8 48'37	1.41957 AU
evening max el	15962 Jun 26 09:14	9° Ω 45'36	21°20'49		15963 May 02 05:35	0°П	
asc. node	15962 Jun 28 22:53	12° Ω 05'18		evening rise	15963 May 06 16:36	7° Ⅱ 17'11	
retrograde	15962 Jul 05 04:34	14° Ω 52'06			15963 May 21 14:23	0°ഇ 23° ഇ 39'55	22920121
evening set inferior conj	15962 Jul 09 15:26 15962 Jul 14 20:56	13° Ω 03'11 6° Ω 50'11	3°08'40	evening max el asc. node	15963 Jun 09 02:14 15963 Jun 15 19:50	23 \$3933 28°\$45'23	22°39'21
minimum elong	15962 Jul 14 20:49	6°Ω50'35	3°07'59	retrograde	15963 Jun 19 01:44	20 3 43 23 29° 3 30'52	
min. Earth dist.	15962 Jul 15 04:13	6° Ω 24'46	0.68945 AU	evening set	15963 Jun 24 00:03	29 \$30 32 27°\$26'07	
morning rise	15962 Jul 20 01:57	0° Ω 31'04	0.06943 AU	inferior conj	15963 Jun 29 06:54	21°504'18	3°01'58
morning risc	15962 Jul 20 17:04	30°RS		minimum elong	15963 Jun 29 05:53	21°507'51	3°01'06
direct	15962 Jul 25 03:13	28°\$20'17		min. Earth dist.	15963 Jun 29 01:07	21°924'25	0.69140 AU
ancet	15962 Jul 30 01:35	0°Ω		morning rise	15963 Jul 04 11:33	14° © 52'31	0.00110110
desc. node	15962 Jul 31 14:33	1° Ω 04'15		direct	15963 Jul 09 00:37	12° © 59'49	
morning max el	15962 Aug 04 07:02	4°Ω21'48	22°54'34	morning max el	15963 Jul 17 22:00	18°909'24	21°28'53
	15962 Aug 23 23:36	0° m)		desc. node	15963 Jul 18 11:47	18°9544'24	
morning set	15962 Sep 07 09:40	22° m/28'26			15963 Jul 27 16:51	$0^{\circ}\Omega$	
C	15962 Sep 11 21:29	0∘ ⊽			15963 Aug 17 01:47	0° ™	
max. Earth dist.	15962 Sep 11 21:11	29° m 58'44	1.40288 AU	morning set	15963 Aug 18 12:03	2° m/ 14'29	
	-			max. Earth dist.	15963 Aug 25 01:39	12° m) 47'27	1.42530 AU
superior conj	15962 Sep 19 17:55	13° ♀ 50'47	-0°45'14		-		
minimum elong	15962 Sep 19 21:25	14° ≙ 06'45		superior conj	15963 Sep 01 13:26	25° m 22'10	-1°21'37
asc. node	15962 Sep 24 24:00	23° ≏ 36′03		minimum elong	15963 Sep 01 20:03	25° m 50'40	1°20'52
	15962 Sep 28 08:50	0° M			15963 Sep 04 05:26	0∘ ত	
evening rise	15962 Sep 29 11:33	2° M $07'25$		asc. node	15963 Sep 11 20:39	13° ≏ 38'49	
evening max el	15962 Oct 15 10:20	27° M 53'48	18°29'10	evening rise	15963 Sep 12 18:16	15° ≏ 16'54	
	15962 Oct 17 21:33	0° ∡ 7			15963 Sep 21 02:09	0° M	
retrograde	15962 Oct 23 07:04	1° ∡ °53′07		evening max el	15963 Sep 28 20:38	10° M 41′20	18°05'58
evening set	15962 Oct 25 06:21	1° ∡ ³38'51		retrograde	15963 Oct 05 19:09	14°M14'50	
desc. node	15962 Oct 27 11:31	0° ≯ 51'18		evening set	15963 Oct 08 00:56	13°M52'53	
	15962 Oct 29 01:33	30°RM		desc. node	15963 Oct 14 08:48	9° M 41'55	
inferior conj	15962 Nov 02 02:21	27°M07'12		inferior conj	15963 Oct 15 03:24	9°M00'02	
minimum elong	15962 Nov 01 22:04	27°M15'34		minimum elong	15963 Oct 15 02:54	9° ™ 01'08	0°14'07
min. Earth dist.	15962 Nov 05 07:26	24°M37'18	0.57778 AU	transit middle	15963 Oct 15 02:54	9°M01'08	0°14'07
morning rise	15962 Nov 09 10:22	21°M57'33		transit begin	15963 Oct 15 01:16	9° ™ 04'51	
direct	15962 Nov 15 15:57	20°M18'45		transit end	15963 Oct 15 04:32	8°M57'25	
morning max el	15962 Nov 29 22:14	27°M50'19	27°03'09	min. Earth dist.	15963 Oct 18 08:23	6°M06'12	0.60006 AU

morning rise	15963 Oct 22 01:38	3° ™ 17'48		desc. node	15964 Sep 30 06:08	18° ≏ 10′26	
direct	15963 Oct 28 16:00	1°M13'49		morning rise	15964 Oct 03 10:14	15° ≏ 28'16	
morning max el	15963 Nov 11 22:09	9° ™ 01'38	27°49'57	direct	15964 Oct 10 02:40	13° ഫ 05'00	
	15963 Nov 28 01:05	0° ∡ ¹		morning max el	15964 Oct 24 04:45	21° ≙ 02'17	27°57'24
asc. node	15963 Dec 08 21:26	19° ∡ °04'47			15964 Oct 31 23:50	0° M	
morning set	15963 Dec 14 06:53	0° ჳ 00'15			15964 Nov 20 02:51	0° ∡ ¹	
Ü	15963 Dec 14 06:50	6°0		asc. node	15964 Nov 24 18:23	8° ∡ 52'33	
max. Earth dist.	15963 Dec 20 09:58	13° る 21'20	1.31066 AU	morning set	15964 Nov 27 06:02	13° х 52'56	
				max. Earth dist.	15964 Dec 02 13:51	25° х ⁷ 09'30	1.31627 AU
superior conj	15963 Dec 21 08:14	15° る 25'38	1°32'11				
minimum elong	15963 Dec 21 06:51	15° る 17'50	1°32'52	superior conj	15964 Dec 04 17:33	29° х 52'46	1°20'42
minimum ciong	15963 Dec 27 22:05	0°≈	1 32 32	minimum elong	15964 Dec 04 15:27	29° x ⁷ 41'11	
evening rise	15963 Dec 27 22:65 15963 Dec 28 00:55	0°≈15'19		minimum crong	15964 Dec 04 18:52	0° ਰ	1 2111
desc. node	15964 Jan 10 07:32	25°≈44'32		evening rise	15964 Dec 11 11:15	14°る43'10	
desc. flode	15964 Jan 12 23:54	0° \		evening rise	15964 Dec 18 22:54	0°≈	
evening max el	15964 Jan 25 03:34	15° ¥ 10'58	25°59'50	desc. node	15964 Dec 27 04:24	0 ∞ 13°≈54'18	
•	15964 Feb 08 02:28	22°) 14'46	23 39 30			25°≈32'07	24°28'04
retrograde				evening max el	15965 Jan 05 16:23		24 28 04
evening set	15964 Feb 14 04:49	20°) (47'42	0.57540.411	. 1	15965 Jan 11 10:51	0°){	
min. Earth dist.	15964 Feb 18 16:42	18°) €09'28	0.57540 AU	retrograde	15965 Jan 19 08:20	2°) €20'38	
inferior conj	15964 Feb 21 16:35	16°) €02'53		evening set	15965 Jan 24 13:08	1° ∺ 21'19	
minimum elong	15964 Feb 22 01:24	15°) 47'17	3°57′12		15965 Jan 27 13:07	30°R≈	
morning rise	15964 Mar 01 01:06	11° 米 41′15		min. Earth dist.	15965 Jan 30 04:10	28° ≈ 30'04	0.55764 AU
direct	15964 Mar 03 00:38	11° ∺ 28'43		inferior conj	15965 Feb 01 09:44	27° ≈ 07'37	
asc. node	15964 Mar 05 19:18	11° ∺ 54'41		minimum elong	15965 Feb 01 18:19	26° ≈ 54'22	5°16'46
morning max el	15964 Mar 11 15:45	15°) 43′18	18°44'01	morning rise	15965 Feb 10 01:34	23° ≈ 06′25	
	15964 Mar 21 14:40	0° Y		direct	15965 Feb 12 08:26	22° ≈ 52'32	
morning set	15964 Mar 27 19:03	11° Y 39'36		asc. node	15965 Feb 20 16:38	26° ≈ 12'41	
				morning max el	15965 Feb 22 10:57	27° ≈ 46'47	19°44'48
superior conj	15964 Apr 05 14:06	28° Y 35'50	0°14'56		15965 Feb 24 12:49	0° ∀	
minimum elong	15964 Apr 05 15:05	28° Y '40'25	0°14'28	morning set	15965 Mar 11 22:53	26° ¥ 10′23	
behind sun begin	15964 Apr 05 12:10	28° Y 26'46			15965 Mar 13 20:12	$0^{\circ}\mathbf{\Upsilon}$	
behind sun end	15964 Apr 05 17:59	28° Y ′54'03					
	15964 Apr 06 08:06	0°8		superior conj	15965 Mar 19 21:14	12° Ƴ 09'12	0°44'14
desc. node	15964 Apr 07 08:54	1° 8 55'05		minimum elong	15965 Mar 19 23:31	12° Y ′20'29	0°43'45
max. Earth dist.	15964 Apr 12 20:14	11° 8 46'07	1.39747 AU	desc. node	15965 Mar 25 05:35	22° Y ′26'45	
evening rise	15964 Apr 16 19:47	18° 8 36'31		max. Earth dist.	15965 Mar 26 02:40	24° Y ′04'55	1.37453 AU
S	15964 Apr 23 19:29	0°II			15965 Mar 29 08:45	0° ႘	
	15964 May 14 22:25	0° ©		evening rise	15965 Mar 29 19:14	0° 8 46'42	
evening max el	15964 May 21 16:31	7° © 35'02	24°00'55		15965 Apr 17 00:38	0°П	
retrograde	15964 Jun 01 19:49	14°9506'31		evening max el	15965 May 04 05:57	21° II 29'30	25°18'42
asc. node	15964 Jun 01 16:52	14°9506'28		retrograde	15965 May 16 09:54	28° I I32'52	20 10 .2
evening set	15964 Jun 07 05:51	11°5548'20		asc. node	15965 May 19 13:58	27° ∏ 51'20	
min. Earth dist.	15964 Jun 11 21:24	6°524'07	0.68844 AU	evening set	15965 May 22 07:14	26° I I04'56	
inferior conj	15964 Jun 12 16:10	5°920'17		min. Earth dist.	15965 May 26 15:00	21° I 17'42	0.68065 AU
minimum elong	15964 Jun 12 14:26	5°526'14		inferior conj	15965 May 27 22:51	19° ∏ 34'14	2°17'00
minimum ciong	15964 Jun 17 02:50	30°RⅡ	2 43 43	minimum elong	15965 May 27 20:42	19° Ⅱ 41'14	
morning rise	15964 Jun 17 23:02	30 KII 29°II17'17		morning rise	15965 Jun 02 10:34	13° ∏ 41'15	2 13 42
direct	15964 Jun 22 00:10	29 Ⅲ 1/1/ 27° Ⅱ 44'20		direct		13 ∏ 41 13 12° ∏ 27'54	
direct					15965 Jun 06 00:21		10011140
	15964 Jun 27 09:29	0°©	20012115	morning max el	15965 Jun 12 23:34	16° Ⅱ 15'40	19 11 40
morning max el	15964 Jun 29 19:05	2°507'20	20°13′15	desc. node	15965 Jun 21 06:05	26° Ⅱ 30'12	
desc. node	15964 Jul 04 08:57	7° © 17'39		4 41 211	15965 Jun 23 16:31	0.20 0.20	0.7
	15964 Jul 20 10:12	0°N		greatest brilliancy	15965 Jun 25 19:00	3°506'03	-0.7m
morning set	15964 Jul 27 19:53	11°Ω15'03		morning set	15965 Jul 07 01:17	20°5514'20	
max. Earth dist.	15964 Aug 06 13:11		1.44336 AU		15965 Jul 13 08:55	0 \circ Ω	
	15964 Aug 08 18:16	0° ™		max. Earth dist.	15965 Jul 20 06:09	10° {\2 43'41	1.45525 AU
						_	
superior conj	15964 Aug 12 09:47	5° m 54'58	-1°52'54	superior conj	15965 Jul 23 07:57	15° Ω 33'48	
minimum elong	15964 Aug 12 17:32	6° Mp 26′42	1°52'37	minimum elong	15965 Jul 23 11:49	15° Ω 49'06	2°12'11
evening rise	15964 Aug 25 08:12	27° m 42'29			15965 Aug 01 08:48	0° ™	
	15964 Aug 26 16:08	0∘ ⊽		evening rise	15965 Aug 07 00:06	9° Mp 11'02	
asc. node	15964 Aug 28 17:19	3° ჲ 31'35		asc. node	15965 Aug 15 14:00	23°Mp09'10	
evening max el	15964 Sep 11 10:55	23° ≏ 57'44	18°02'08		15965 Aug 20 01:09	0∘ ⊽	
retrograde	15964 Sep 17 21:50	27° ≏ 19'22		evening max el	15965 Aug 26 01:33	7° ჲ 33'15	18°16'34
evening set	15964 Sep 20 11:41	26° ≏ 46′09		retrograde	15965 Sep 01 10:31	10° ≙ 56'17	
inferior conj	15964 Sep 26 22:33	21° ≏ 34'16	1°00'11	evening set	15965 Sep 04 09:06	10° ≙ 08'57	
minimum elong	15964 Sep 27 00:11	21° ≏ 30′01	0°59'49	inferior conj	15965 Sep 10 07:43	4° ≏ 40'43	1°55'38
min. Earth dist.	15964 Sep 29 19:19	18° ≏ 36'58	0.62293 AU	minimum elong	15965 Sep 10 10:02	4° △ 34'00	1°54'57

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inferior conj

15967 Aug 09 05:41

2° mg 01'06 2° 57'00

evening set

15966 Aug 19 13:16

23° m 54'29

minimum elong	15967 Aug 09 07:03	1° m 56'32		evening max el	15968 Jul 05 22:13	19° Ω 07'52	20°39'22
min. Earth dist.	15967 Aug 10 10:23	0° m/25'38	0.67663 AU	asc. node	15968 Jul 06 04:19	19° Ω 22'55	
	15967 Aug 10 18:12	30°R€		retrograde	15968 Jul 14 02:22	23° Ω 48'56	
morning rise	15967 Aug 14 16:17	25° Ω 34'57		evening set	15968 Jul 18 06:58	22° Ω 09'47	2005140
direct	15967 Aug 20 12:15	23° Ω 02'57		inferior conj	15968 Jul 23 12:46	16° Ω 02'59	3°07'40
desc. node	15967 Aug 21 22:18	23° Ω 10′52		minimum elong	15968 Jul 23 13:12	16°Ω01'26	3°07'03
	15967 Sep 01 07:23	0° m	0.501.010.5	min. Earth dist.	15968 Jul 24 03:43	15° Ω 11'25	0.68620 AU
morning max el	15967 Sep 01 13:49	~	25°13'25	morning rise	15968 Jul 28 19:09	9° Ω 40'44	
	15967 Sep 23 23:20	0∘ ⊽		direct	15968 Aug 03 03:30	7° Ω 20'52	
morning set	15967 Oct 07 10:20	22° £ 24'46	1.06500 477	desc. node	15968 Aug 07 19:39	8° Ω 46'50	22045155
max. Earth dist.	15967 Oct 10 23:06	28° ≏ 51'15	1.36532 AU	morning max el	15968 Aug 14 00:40	13° Ω 50′27	23°45'55
	15967 Oct 11 13:51	0°M,			15968 Aug 27 03:42	0° m y	
asc. node	15967 Oct 16 08:52	9° M 11′37			15968 Sep 15 20:06	0∘ ⊽	
				morning set	15968 Sep 18 01:41	3° Ω 44'47	
superior conj	15967 Oct 17 11:22	11°M22'21	0°10'00	max. Earth dist.	15968 Sep 21 21:48	10° ≏ 22'02	1.38913 AU
minimum elong	15967 Oct 17 10:44	11°ML19'12	0°10'20				
behind sun begin	15967 Oct 17 05:47	10° M ₅54'38		superior conj	15968 Sep 29 12:00	24° ≙ 10'44	
behind sun end	15967 Oct 17 15:42	11° M .43'49		minimum elong	15968 Sep 29 13:44	24° ≙ 18'52	0°23'38
evening rise	15967 Oct 25 13:16	27° M 44'25		asc. node	15968 Oct 02 05:34	29° ≏ 22'25	
	15967 Oct 26 16:00	0° ∡ ¹			15968 Oct 02 13:23	0° M	
evening max el	15967 Nov 11 23:17	26° ₹ ′29′00	19°48'35	evening rise	15968 Oct 08 12:55	11°M39'20	
	15967 Nov 16 11:39	0°ಕ			15968 Oct 18 13:25	0° ∡	
desc. node	15967 Nov 17 19:29	0° る 38'45		evening max el	15968 Oct 24 18:46	8° ∡ 10'43	18°51'45
retrograde	15967 Nov 22 02:08	1° る 32'00		retrograde	15968 Nov 02 08:47	12° ∡ ³30'37	
evening set	15967 Nov 24 02:53	1° る 20'44		desc. node	15968 Nov 03 16:40	12° ∡ ¹24'44	
	15967 Nov 28 03:12	30°₽ ⋌		evening set	15968 Nov 04 06:16	12° ∡ 18'45	
inferior conj	15967 Dec 02 20:38	27° ҂ ¹20′01	-4°29'40	inferior conj	15968 Nov 12 11:53	7° ∡ ¹58'56	-2°48'12
minimum elong	15967 Dec 02 10:39	27° × 35'27	4°25'56	minimum elong	15968 Nov 12 05:00	8° ∤ 11'15	2°44'52
min. Earth dist.	15967 Dec 04 23:25	26° ₰ 01'38	0.55134 AU	min. Earth dist.	15968 Nov 15 11:21	5° ∡ 751'47	0.56648 AU
morning rise	15967 Dec 10 17:00	23° ₰ 06'55		morning rise	15968 Nov 20 00:49	3° ∡ 10'58	
direct	15967 Dec 15 19:47	22° ₹ '09'16		direct	15968 Nov 25 22:22	1° ∡ ¹47'58	
morning max el	15967 Dec 29 14:50	29° ₹ '02'01	24°41'45	morning max el	15968 Dec 10 02:22	9° ∡ ¹06'07	26°19'34
	15967 Dec 30 14:30	0°ಕ			15968 Dec 25 19:55	0°ರ	
asc. node	15968 Jan 12 08:31	17° る 11'02		asc. node	15968 Dec 29 05:41	5° る 55'30	
	15968 Jan 19 08:07	0° ≈		morning set	15969 Jan 07 17:42	24° る 51'28	
morning set	15968 Jan 24 06:53	10° ≈ 17′08			15969 Jan 10 02:18	0° ≈	
	15968 Jan 31 01:09	25°≈06'54	1°33'57	:	15969 Jan 14 11:33	9° ≈ 45'38	1°38'00
superior conj		25°≈13'37		superior conj		9°≈46'38	
minimum elong	15968 Jan 31 02:22			minimum elong	15969 Jan 14 11:43		
max. Earth dist.	15968 Feb 02 03:48		1.32171 AU	max. Earth dist.	15969 Jan 15 09:17	11°≈46'48 25°≈00'50	1.31322 AU
	15968 Feb 02 06:51	0°) (52)52		evening rise	15969 Jan 21 11:16		
evening rise	15968 Feb 07 10:53	10°) ₹53'52		1 1	15969 Jan 23 21:08	0°) {	
desc. node	15968 Feb 13 19:33	23°) 16'31		desc. node	15969 Jan 30 16:13	13°) €00'52	
	15968 Feb 17 13:40	0°Υ •••			15969 Feb 10 04:22	0°Υ 1.40 Ω 22106	27025126
	15968 Mar 09 20:20	0°8	0.500.510.0	evening max el	15969 Feb 22 05:29	14° Y 33'06	27°25'36
evening max el	15968 Mar 11 21:19	2° 8 03'05	27°35'32	retrograde	15969 Mar 08 05:30	21°Υ55'29	
retrograde	15968 Mar 25 18:06	9° 8 33'12		evening set	15969 Mar 15 00:04	19° Y 49'54	0.61001.477
evening set	15968 Apr 01 13:25	7° 8 11'33	0.62100 444	min. Earth dist.	15969 Mar 18 19:28	17° Υ 00'37	
min. Earth dist.	15968 Apr 05 07:54	4° 8 00'34	0.63199 AU	inferior conj	15969 Mar 21 23:25	14°Υ13'22	
inferior conj	15968 Apr 08 04:17	1° 8 09'30		minimum elong	15969 Mar 22 03:02	14° Y 05′21	1°38'05
minimum elong	15968 Apr 08 04:56	1° 8 07'51	0°20'18	asc. node	15969 Mar 27 03:02	10° ℃ 17'18	
asc. node	15968 Apr 09 05:42	0° 8 06'24		morning rise	15969 Mar 29 09:19	9° Υ 18'33	
	15968 Apr 09 08:21	30° ₹ Υ		direct	15969 Mar 31 12:19	8° Y 59'33	
morning rise	15968 Apr 14 23:05	25° Y 56′09		morning max el	15969 Apr 07 12:22	12° Y 30′16	17°53'11
direct	15968 Apr 17 08:38	25° Y 28'26			15969 Apr 19 07:50	0°8	
morning max el	15968 Apr 23 20:01	28° Y ′46′03	17°46'19	morning set	15969 Apr 23 03:30	6° 8 51'49	
	15968 Apr 25 00:24	0° 8		desc. node	15969 Apr 28 17:43	16° 8 55'49	
morning set	15968 May 10 04:16	23° 8 34'57					
desc. node	15968 May 11 20:57	26° 8 30'03		superior conj	15969 May 03 22:16	26° 8 01'40	
	15968 May 13 21:55	Π \circ 0		minimum elong	15969 May 03 18:34	25° 8 45'41	0°41'32
					15969 May 06 06:03	0°П	
superior conj	15968 May 22 15:03	14° Ⅱ 36′29		max. Earth dist.	15969 May 11 07:16	8° Ⅱ 24'43	1.43099 AU
minimum elong	15968 May 22 07:41	14° Ⅱ 06′15		evening rise	15969 May 17 14:55	18° Ⅲ 32'33	
max. Earth dist.	15968 May 28 16:30		1.44715 AU		15969 May 25 01:45	0ം ತಾ	
	15968 Jun 01 05:36	0 \circ \odot			15969 Jun 15 22:01	$0^{\circ}\Omega$	
evening rise	15968 Jun 06 19:17	8°538'03		evening max el	15969 Jun 18 17:44	3° Ω 01'33	21°53'29
	15968 Jun 21 02:43	0 ° Ω		asc. node	15969 Jun 23 01:12	6° Ω 39'58	

retrograde	15969 Jun 28 00:39	8° Ω 26'45			15970 May 18 13:39	0° ©	
evening set	15969 Jul 02 16:27	6°Ω30'36		evening max el	15970 Jun 01 09:05	16° © 55'15	23°14'07
inferior conj	15969 Jul 07 22:14	0°Ω13'35	3°07'07	asc. node	15970 Jun 09 22:10	22°548'38	23 1407
minimum elong	15969 Jul 07 21:43	0°Ω15'22	3°06'21	retrograde	15970 Jun 11 20:45	23°904'53	
min. Earth dist.	15969 Jul 07 23:52	0°Ω07'54	0.69086 AU	evening set	15970 Jun 17 00:04	20°953'49	
mm. Bartii dist.	15969 Jul 08 02:07	30°R.55	0.07000710	inferior conj	15970 Jun 22 08:07	14°9528'45	2°56'00
morning rise	15969 Jul 13 02:49	23°957'39		minimum elong	15970 Jun 22 06:46	14°933'26	2°55'02
direct	15969 Jul 17 22:51	21°954'27		min. Earth dist.	15970 Jun 21 20:44	15°908'08	0.69065 AU
desc. node	15969 Jul 25 16:57	25°5948'06		morning rise	15970 Jun 27 13:24	8°9520'37	
morning max el	15969 Jul 27 13:28	27° © 33'22	22°17'23	direct	15970 Jul 01 21:13	6°\$36'28	
C	15969 Jul 29 20:38	$0^{\circ}\Omega$		morning max el	15970 Jul 10 06:53	11° © 25'33	20°55'16
	15969 Aug 20 17:36	0° m)		desc. node	15970 Jul 12 14:11	13° © 52'46	
morning set	15969 Aug 29 17:51	14° m 05'59			15970 Jul 24 19:18	$0^{\circ}\Omega$	
max. Earth dist.	15969 Sep 03 23:25	22° Mp 41'48	1.41277 AU	morning set	15970 Aug 09 11:05	23° Ω 29′22	
	15969 Sep 08 06:22	0∘ ⊽			15970 Aug 13 14:34	0° ™	
				max. Earth dist.	15970 Aug 17 06:42	5° m 52'49	1.43353 AU
superior conj	15969 Sep 11 19:25	6° ₾ 13'08	-1°00'52				
minimum elong	15969 Sep 12 00:19	6° £ 34'53	1°00'06	superior conj	15970 Aug 24 05:17	17° m 19'30	-1°35'54
asc. node	15969 Sep 19 02:13	19° ≙ 29'31		minimum elong	15970 Aug 24 12:49	17° m 51'13	1°35'19
evening rise	15969 Sep 22 03:04	25° ഫ 09'11			15970 Aug 31 14:14	0∘ ⊽	
	15969 Sep 24 17:34	0° M		evening rise	15970 Sep 05 03:19	8° ჲ 01'42	
evening max el	15969 Oct 08 00:53	20°M37'17	18°16'47	asc. node	15970 Sep 05 22:52	9° ჲ 28'32	
retrograde	15969 Oct 15 10:59	24°M24'24			15970 Sep 18 10:36	0° M	
evening set	15969 Oct 17 12:37	24°M07'24		evening max el	15970 Sep 21 13:20	3°M38'13	18°02'05
desc. node	15969 Oct 21 13:55	22°ML07'37		retrograde	15970 Sep 28 05:53	7°M05'17	
inferior conj	15969 Oct 25 01:04	19°M26'14		evening set	15970 Sep 30 14:50	6° ™ 39'07	
minimum elong	15969 Oct 24 22:34	19°M31'26	1°05'13	inferior conj	15970 Oct 07 10:21	1°M38'03	0°19'25
min. Earth dist.	15969 Oct 28 07:13	16°ML43'51	0.58696 AU	minimum elong	15970 Oct 07 10:57	1°M36'34	0°19'31
morning rise	15969 Nov 01 05:04	14°ML01'38		desc. node	15970 Oct 08 11:15	0° ™ 37'35	
direct	15969 Nov 07 14:56	12°M11'58			15970 Oct 09 02:46	30°Ŗ <u>Ω</u>	
morning max el	15969 Nov 21 22:00	19° M ₅51'07	27°27'52	min. Earth dist.	15970 Oct 10 12:37	28° △ 40'02	0.60979 AU
	15969 Nov 30 14:45	0° ⊀ ⁷		morning rise	15970 Oct 14 04:04	25° Ω 44'11	
asc. node	15969 Dec 16 02:47	25° ∡ 11'08		direct	15970 Oct 20 19:58	23° Ω 30'57	
. ,	15969 Dec 18 14:10	0°る			15970 Nov 02 13:38	0°M	27057140
morning set	15969 Dec 23 01:35	9° る 13'45		morning max el	15970 Nov 04 01:15	1°M₊24'46 0°⊀	27°57'49
superior conj	15969 Dec 29 23:01	24° る 24'08	1°36'02	asc. node	15970 Nov 24 21:38 15970 Dec 02 23:47	0 x . 14° x 48'57	
minimum elong	15969 Dec 29 22:09	24 3 24 08 24° 3 19'19	1°36'45	morning set	15970 Dec 02 23.47 15970 Dec 07 04:33	23°×18'39	
max. Earth dist.	15969 Dec 29 17:04	24 3 1919 23° 3 50'49	1.31003 AU	morning set	15970 Dec 07 04:33	25 メ 1639	
max. Lartii dist.	15970 Jan 01 11:03	0° ≈	1.51005 AC	max. Earth dist.	15970 Dec 12 23:16		1.31234 AU
evening rise	15970 Jan 05 17:04	9° ≈ 19'37		max. Lartii dist.	13)/10 Dec 12 23.10	3 04000	1.51254710
evening rise	15970 Jan 16 05:24	0° \		superior conj	15970 Dec 14 09:40	8° る 56'55	1°28'04
desc. node	15970 Jan 17 12:58	2°) 17'17		minimum elong	15970 Dec 14 07:56	8° る 47'16	1°28'41
evening max el	15970 Feb 04 06:58	26° ¥ 13'05	26°40'36	evening rise	15970 Dec 21 02:16	23° ප් 45'11	
<i>y</i>	15970 Feb 08 21:12	0° Υ		<i>8</i> 11	15970 Dec 24 00:55	0° ≈	
retrograde	15970 Feb 18 07:12	3° Y ′24'52		desc. node	15971 Jan 04 09:48	20° ≈ 55'17	
evening set	15970 Feb 24 17:57	1° Y 41'59			15971 Jan 10 17:49	0° ∀	
	15970 Feb 27 13:09	30° ₹ ₩		evening max el	15971 Jan 17 00:10	7°) €00'32	25°23'19
min. Earth dist.	15970 Feb 28 20:40	29° ₭ 03'52	0.58757 AU	retrograde	15971 Jan 30 21:18	13° ¥ 59′08	
inferior conj	15970 Mar 04 01:15	26° ∺ 37′23	-3°08'25	evening set	15971 Feb 05 15:28	12°) 43′49	
minimum elong	15970 Mar 04 08:26	26°) 23'35	3°05'40	min. Earth dist.	15971 Feb 10 12:49	10°) €02'07	0.56718 AU
morning rise	15970 Mar 12 02:25	22°) €03'41		inferior conj	15971 Feb 13 06:41	8°) 12' 46	-4°36'31
direct	15970 Mar 14 01:40	21° ¥ 49'56		minimum elong	15971 Feb 13 16:04	7° ¥ 57'10	4°33'33
asc. node	15970 Mar 14 00:24	21°) 49′57		morning rise	15971 Feb 21 19:27	4°) €00'27	
morning max el	15970 Mar 21 23:52	25° ¥ 45′11	18°19'26	direct	15971 Feb 23 20:38	3°) 48′05	
	15970 Mar 25 14:40	0° Υ		asc. node	15971 Feb 28 21:46	5° ¥ 08'13	
morning set	15970 Apr 06 17:13	20° Y 47'29		morning max el	15971 Mar 05 02:19	8° ¥ 18'51	19°07'02
	15970 Apr 11 13:59	0°8			15971 Mar 19 01:56	0°Υ	
desc. node	15970 Apr 15 14:25	7° 8 26'57		morning set	15971 Mar 21 16:59	5° Ƴ 08'57	
superior conj	15970 Apr 16 03:27	8° 8 26'21	-0°04'32	superior conj	15971 Mar 30 02:26	21° Y ′38'41	0°28'06
minimum elong	15970 Apr 16 03:04	8° 8 24'38	0°04'53	minimum elong	15971 Mar 30 04:07	21° Y '46'46	0°27'35
behind sun begin	15970 Apr 15 20:01	7° 8 52'31		desc. node	15971 Apr 02 11:07	27° Y ′59'53	
behind sun end	15970 Apr 16 10:07	8° 8 56'41			15971 Apr 03 13:06	9° 8	
max. Earth dist.	15970 Apr 23 17:03	21° 8 45'53	1.41038 AU	max. Earth dist.	15971 Apr 05 23:20	4° 8 24'21	1.38762 AU
evening rise	15970 Apr 28 05:41	29° 8 19'22		evening rise	15971 Apr 09 17:52	11° 8 02'05	
	15970 Apr 28 15:37	Π °0			15971 Apr 21 10:20	Π °0	

	15971 May 14 02:41	0°©		evening max el	15972 Apr 26 12:26	14° ∏ 44'25	25°48'55
evening max el	15971 May 14 02:41	0°\$50'35	24°34'57	retrograde	15972 May 09 01:28	21° I 57'35	23 40 33
retrograde	15971 May 26 13:25	7°937'40	24 34 37	asc. node	15972 May 13 16:22	20° I I31'37	
asc. node	15971 May 27 19:14	7°931'08		evening set	15972 May 15 03:10	19° Ⅲ 27'22	
evening set	15971 Jun 01 04:13	5°914'55		min. Earth dist.	15972 May 19 08:13	14° II 55'09	0.67594 AU
min. Earth dist.	15971 Jun 05 16:16	0°906'18	0.68564 AU	inferior conj	15972 May 20 21:31	12° Ⅱ 57'01	2°01'47
mm. Earth dist.	15971 Jun 05 18:09	30°R Ⅱ	0.00304710	minimum elong	15972 May 20 19:20	13° I I03'56	2°00'27
inferior conj	15971 Jun 06 16:34	28° Ⅱ 44'59	2°34'24	morning rise	15972 May 26 12:06	7° I 08'20	2 00 27
minimum elong	15971 Jun 06 14:36	28° I I51'34		direct	15972 May 29 21:22	6° Ⅱ 02'47	
morning rise	15971 Jun 12 01:08	22° II 45'53	2 33 13	morning max el	15972 Jun 05 14:26	9° П 39'30	18°50'11
direct	15971 Jun 15 21:17	21° II 21'25		desc. node	15972 Jun 15 08:27	22° I I10'22	10 20 11
morning max el	15971 Jun 23 07:03	25° II 28'22	19°45'08	greatest brilliancy	15972 Jun 19 06:09	28° I I01'17	-0.8m
morning man er	15971 Jun 27 07:56	0.00 20.02	15 .5 00	greatest orimane)	15972 Jun 20 13:16	0°9	0.0111
desc. node	15971 Jun 29 11:21	2° 5 44'29		morning set	15972 Jun 28 01:53	11° © 37'38	
	15971 Jul 18 02:10	0°Ω			15972 Jul 09 21:31	0°N	
morning set	15971 Jul 19 15:18	2°Ω22'12		max. Earth dist.	15972 Jul 12 14:39	4°Ω14'00	1.45821 AU
max. Earth dist.	15971 Jul 30 20:11	19° Ω 47'51	1.44922 AU				
		., .,		superior conj	15972 Jul 14 06:47	6° Ω 50'48	-2°14'12
superior conj	15971 Aug 04 15:39	27° Ω 27'46	-2°02'51	minimum elong	15972 Jul 14 07:29	6°Ω53'34	
minimum elong	15971 Aug 04 22:28	27° Ω 55'11		mannam trong	15972 Jul 28 21:26	0° m)	_ 1.0_
minimum vieng	15971 Aug 06 05:26	0° m)	2 0200	evening rise	15972 Jul 29 13:40	1° m)05'11	
evening rise	15971 Aug 18 08:26	20° m/04'02		asc. node	15972 Aug 09 16:14	18° m) 44'42	
asc. node	15971 Aug 23 19:33	29° mg 15'21		use. Houe	15972 Aug 18 00:25	0∘ ত	
use. Houe	15971 Aug 24 06:17	0∘ ⊽		evening max el	15972 Aug 18 18:07	ა — 0° ჲ 45'24	18°28'06
evening max el	15971 Sep 05 04:12	17° Ω 03'49	18°06'11	retrograde	15972 Aug 25 04:45	4° £ 12'34	
retrograde	15971 Sep 11 13:10	20° Ω 24'16		evening set	15972 Aug 28 07:21	3° ₽ 18'21	
evening set	15971 Sep 14 06:40	19° Ω 45'24		0.0000	15972 Sep 01 02:56	30°R, M)	
inferior conj	15971 Sep 20 11:55	14° £ 26'35	1°25'57	inferior conj	15972 Sep 03 01:49	27° m 43'57	2°13'44
minimum elong	15971 Sep 20 14:00	14° Ω 20'56	1°25'22	minimum elong	15972 Sep 03 04:08	27° m) 37'00	2°13'02
min. Earth dist.	15971 Sep 23 03:55	11° ≏ 33'18	0.63230 AU	min. Earth dist.	15972 Sep 05 04:32	25° m) 12'17	0.65243 AU
desc. node	15971 Sep 25 08:37	9° £ 24'40	0.03230110	morning rise	15972 Sep 08 23:38	21° m) 20'39	0.002.0110
morning rise	15971 Sep 26 19:12	8° ₾ 13'33		desc. node	15972 Sep 11 06:01	19° m) 48'37	
direct	15971 Oct 03 11:01	5° Ω 43'59		direct	15972 Sep 15 10:14	18° m) 43'47	
morning max el	15971 Oct 17 09:38		27°49'08	morning max el	15972 Sep 28 20:39	26° m/36'06	27°07'08
	15971 Oct 30 13:33	0°M	27 19 00	moning man vi	15972 Oct 02 00:49	0∘ ⊽	2, 0, 00
	15971 Nov 17 10:54	0° ⊼ ¹			15972 Oct 23 04:16	0° M	
asc. node	15971 Nov 19 20:43	4° х 42′30		morning set	15972 Nov 03 10:14	20°M14'20	
morning set	15971 Nov 21 00:21	7° х ⁷ 00'53		asc. node	15972 Nov 05 17:36	24°M46'28	
max. Earth dist.	15971 Nov 26 00:12	17° х 25′04	1.32033 AU	max. Earth dist.	15972 Nov 07 16:48	28°M44'34	1.33393 AU
					15972 Nov 08 07:32	0° ∡ ¹	
superior conj	15971 Nov 28 17:34	23° ∡ 18'44	1°14'01				
minimum elong	15971 Nov 28 15:17	23° х 06′18		superior conj	15972 Nov 11 20:31	7° ∡ ¹23'54	0°53'50
	15971 Dec 01 18:41	0°ප		minimum elong	15972 Nov 11 18:14	7° ∡ 11'48	0°54'08
evening rise	15971 Dec 05 13:01	8° ප 13'16		evening rise	15972 Nov 18 23:29	22° ₹ '39'25	
Č	15971 Dec 16 16:00	0° ≈		C	15972 Nov 22 11:59	ರ°0	
desc. node	15971 Dec 22 06:43	8° ≈ 40'44		desc. node	15972 Dec 08 03:42	25° る 15'19	
evening max el	15971 Dec 29 10:47	17° ≈ 07'41	23°44'31	evening max el	15972 Dec 09 21:57	27° る 05'23	22°01'47
retrograde	15972 Jan 11 21:39	23° ≈ 47'36		C	15972 Dec 13 08:08	0° ≈	
evening set	15972 Jan 16 14:09	23°≈00'04		retrograde	15972 Dec 22 10:19	3°≈16'41	
min. Earth dist.	15972 Jan 22 22:07	19° ≈ 57'06	0.55190 AU	evening set	15972 Dec 25 19:56	2° ≈ 50'58	
inferior conj	15972 Jan 24 15:21	18° ≈ 56'19		Č	15973 Jan 01 13:43	30°Ŗる	
minimum elong	15972 Jan 24 21:54	18° ≈ 46'38		inferior conj	15973 Jan 03 09:09	28° る 59'52	-6°00'37
morning rise	15972 Feb 02 07:13	15° ≈ 01'28		minimum elong	15973 Jan 03 07:00	29° පි 02'51	5°59'49
direct	15972 Feb 04 20:22	14° ≈ 45'20		min. Earth dist.	15973 Jan 03 03:37	29° る 07'35	0.54440 AU
morning max el	15972 Feb 15 15:32	19° ≈ 59'01	20°17'42	morning rise	15973 Jan 11 18:56	25° る 12'34	
asc. node	15972 Feb 15 19:08	20° ≈ 07'48		direct	15973 Jan 15 06:26	24° る 45'48	
	15972 Feb 23 09:52	0° ₩			15973 Jan 26 19:20	0° ≈	
morning set	15972 Mar 04 23:15	19°) 45′08		morning max el	15973 Jan 27 13:40	0° ≈ 42'34	21°50'42
<i>2</i> ·	15972 Mar 09 22:44	0° Υ		asc. node	15973 Feb 01 16:28	6° ≈ 32'42	
		•			15973 Feb 15 05:46	0° ¥	
superior conj	15972 Mar 12 14:47	5° Υ 25'38	0°54'45	morning set	15973 Feb 17 09:22	4° ¥ 28'29	
minimum elong	15972 Mar 12 17:17	5° Υ 38'14	0°54'22	<i>3 -</i>			
max. Earth dist.	15972 Mar 18 06:24	16° Υ 30'13	1.36515 AU	superior conj	15973 Feb 24 12:49	19° ¥ 37'15	1°15'00
desc. node	15972 Mar 19 07:47	18° Υ 30'08		minimum elong	15973 Feb 24 15:14	19°) 49'55	1°14'54
evening rise	15972 Mar 22 01:09	23° Y '31'59		max. Earth dist.	15973 Feb 28 18:39	28° H 21'39	1.34509 AU
	15972 Mar 25 16:31	0°8		Zurur dibt.	15973 Mar 01 14:16	0° Υ	
	15972 Apr 14 02:53	0°II		evening rise	15973 Mar 05 00:03	6° Υ 39'27	
	10),211pt 17 02.33	~ ~			-5, 5 min 05 00.05	0 1 37 21	

desc. node	15973 Mar 06 04:26	8° Y 54'01		desc. node	15974 Feb 21 01:05	29°) €06'49	
	15973 Mar 18 09:20	0°8			15974 Feb 21 12:32	0° Y	
evening max el	15973 Apr 09 02:16	28° 8 29'10	26°48'29		15974 Mar 12 09:07	9° 8	
	15973 Apr 10 17:05	$\Pi^{\circ}0$		evening max el	15974 Mar 22 15:20	11° 8 54'10	27°26'17
retrograde	15973 Apr 22 07:56	5° Ⅱ 56'52		retrograde	15974 Apr 05 08:05	19° 8 26'26	
evening set	15973 Apr 28 19:01	3° Ⅲ 24′26		evening set	15974 Apr 12 01:39	16° 8 58'24	
asc. node	15973 Apr 30 13:35	1° Ⅱ 49'13		min. Earth dist.	15974 Apr 15 21:08	13° 8 32'07	0.64376 AU
	15973 May 02 06:48	30° ₹ 8		asc. node	15974 Apr 17 10:51	11° 8 52'10	
min. Earth dist.	15973 May 02 18:29	29° 8 26'52	0.66181 AU	inferior conj	15974 Apr 18 11:36	10° 8 45'35	0°19'21
inferior conj	15973 May 04 20:44	26° 8 59'22	1°17'09	minimum elong	15974 Apr 18 11:03	10° 8 47'02	0°18'41
minimum elong	15973 May 04 18:56	27° 8 04'40	1°15'55	morning rise	15974 Apr 24 22:36	5° 8 23'22	
morning rise	15973 May 10 20:08	21° 8 22'52		direct	15974 Apr 27 12:46	4° 8 49'04	
direct	15973 May 13 19:21	20° 8 34'20		morning max el	15974 May 03 20:43	8° 8 03'58	17°50'38
morning max el	15973 May 20 03:46	23° 8 53'51	18°11'51		15974 May 18 19:21	Π °0	
	15973 May 25 06:10	Π °0		desc. node	15974 May 20 02:22	2° Ⅱ 09'54	
desc. node	15973 Jun 02 05:27	12° Ⅱ 01′10		morning set	15974 May 21 00:15	3° ∏ 41'41	
morning set	15973 Jun 08 11:22	22° Ⅱ 00'33					
	15973 Jun 13 11:20	0 \circ		superior conj	15974 Jun 03 12:06	25° ∏ 52'52	-1°39'29
				minimum elong	15974 Jun 03 03:32	25° Ⅱ 18′28	1°39'23
superior conj	15973 Jun 23 15:56	16° © 04'22			15974 Jun 06 02:06	0	
minimum elong	15973 Jun 23 09:22	15° © 38'42		max. Earth dist.	15974 Jun 08 07:14	3° © 30'01	1.45368 AU
max. Earth dist.	15973 Jun 25 11:23	18° © 54'02	1.45972 AU	evening rise	15974 Jun 19 07:08	20°532'54	
	15973 Jul 02 14:37	0 \circ Ω			15974 Jun 25 12:33	0 $^{\circ}$ Ω	
evening rise	15973 Jul 09 18:27	11° Ω 06'38		greatest brilliancy	15974 Jul 04 02:57	12° Ω 44'06	-0.6m
greatest brilliancy	15973 Jul 20 22:45	28° Ω 18'22	-0.7m	asc. node	15974 Jul 14 09:44	26° Ω 22'46	
	15973 Jul 22 01:52	0° m)		evening max el	15974 Jul 16 09:02	28° Ω 28'56	20°01'36
asc. node	15973 Jul 27 12:57	7° m 49'53			15974 Jul 18 00:26	0° m ∤	
evening max el	15973 Aug 02 04:19	14°M) 35'17	19°06'58	retrograde	15974 Jul 24 00:05	2°Mp47'55	
retrograde	15973 Aug 09 01:17	18° Mp 22'24		evening set	15974 Jul 27 22:25	1° m) 19'01	
evening set	15973 Aug 12 13:26	17° m) 11'10			15974 Jul 29 09:59	30°R Ω	
inferior conj	15973 Aug 18 00:34	11°M)22'54	2°45'17	inferior conj	15974 Aug 02 05:21	25°Ω18'28	
minimum elong	15973 Aug 18 02:24	11° m 16'59	2°44'37	minimum elong	15974 Aug 02 06:20	25° Ω 15'06	3°02'22
min. Earth dist.	15973 Aug 19 13:12	9° m 24'48	0.66901 AU	min. Earth dist.	15974 Aug 03 04:06	24° Ω 01'19	0.68125 AU
morning rise	15973 Aug 23 14:39	4° m 56'15		morning rise	15974 Aug 07 13:51	18° Ω 53'23	
desc. node	15973 Aug 29 03:24	2° Tp 21'41		direct	15974 Aug 13 04:52	16° Ω 26'03	
direct	15973 Aug 29 16:31	2° m/20'31	25050152	desc. node	15974 Aug 16 00:45	16° Ω 57'36	0.400.6150
morning max el	15973 Sep 11 08:08	9° m 52'25	25°59'53	morning max el	15974 Aug 24 19:10	23° £ 22'39	24°36'53
	15973 Sep 27 06:52	0∘ ⊽			15974 Aug 30 16:16	0° m y	
	15973 Oct 15 17:25	0°M,			15974 Sep 20 15:14	0° ⊡	
morning set	15973 Oct 17 06:43	2°M50'26	1 25267 ATT	morning set	15974 Sep 29 09:58	14° £ 41'22	1 27526 ATT
max. Earth dist.	15973 Oct 20 23:42	9°M49'42	1.35267 AU	max. Earth dist.	15974 Oct 02 23:31	21° ⊆ 02'01	1.37526 AU
asc. node	15973 Oct 23 14:22	14°M55'38			15974 Oct 07 19:21	0°M	
	15973 Oct 26 15:48	210M 04120	0°27'37		15974 Oct 10 00:19	4° ጤ 14'28	0004104
superior conj		21°M04'38 20°M56'55	0°27'54	superior conj			0°03'38
minimum elong	15973 Oct 26 14:16 15973 Oct 30 23:27	20 IIL3033 0° √	0 2/34	minimum elong	15974 Oct 10 00:33 15974 Oct 09 17:59	4°M15'38 3°M43'51	0 03 38
evening rise	15973 Nov 03 07:36	6° ₹ ¹57'34		behind sun begin behind sun end	15974 Oct 10 07:06	4°M47'30	
evening rise	15973 Nov 15 18:48	0 x・3/34 0°る		asc. node	15974 Oct 10 07:06 15974 Oct 10 11:06	5°M06'54	
evening max el	15973 Nov 21 18:59		20°31'21	evening rise	15974 Oct 10 11:00 15974 Oct 18 11:09	21°M02'46	
desc. node	15973 Nov 21 18.39 15973 Nov 25 00:45	7 82912 10° 8 14'46	20 3121	evening rise	15974 Oct 23 00:25	21 1160246 0° x 7	
retrograde	15973 Dec 02 20:46	10 3 1440		evening max el	15974 Nov 04 06:35	18° ∡ ¹41'33	19°21'39
evening set	15973 Dec 05 05:13	12 3 3930		desc. node	15974 Nov 11 21:52	23°×15'34	19 21 39
inferior conj	15973 Dec 14 00:50	8°る51'46	5017'18	retrograde	15974 Nov 13 17:18	23° x 15'54' 25'40	
minimum elong	15973 Dec 13 15:34	9° そ 05'15		evening set	15974 Nov 15 17:16	23°× 23°+0	
min. Earth dist.	15973 Dec 15 19:07	9 3 03 13 8° る 04'45	0.54611 AU	inferior conj	15974 Nov 24 04:47	19° ₹ 06'50	-3°48'10
morning rise	15973 Dec 22 01:38	4°る53'32	0.54011 AC	minimum elong	15974 Nov 23 19:40	19° ∡ 21'48	3°44'19
direct	15973 Dec 26 14:39	4°る99'10		min. Earth dist.	15974 Nov 26 18:12	17° × 21'46'	0.55688 AU
morning max el	15974 Jan 09 00:38		23°38'53	morning rise	15974 Dec 01 21:59	14° × 39'25	0.0000710
asc. node	15974 Jan 19 13:45	24°る03'41		direct	15974 Dec 07 09:18	13°× 31'22	
	15974 Jan 23 03:33	0°≈		morning max el	15974 Dec 21 09:34	20° ₹ 36'25	25°26'04
morning set	15974 Feb 01 21:11	0 ∞ 19°≈12'12		morning mux or	15974 Dec 29 11:04	20 x 30 23	20 20 07
morning sec	15974 Feb 06 20:31	0°) €		asc. node	15975 Jan 06 10:57	12°る24'51	
	20,,.100 00 20.31	· //		300. 11000	15975 Jan 15 13:29	0°≈	
superior conj	15974 Feb 08 17:30	4°) €04'43	1°28'50	morning set	15975 Jan 17 08:51	3°≈51'05	
minimum elong	15974 Feb 08 19:16	4°) 14'12	1°29'05		-55,75 Juli 17 00.51	5.4.51.05	
max. Earth dist.	15974 Feb 11 14:10	10° ¥ 12'54	1.32886 AU	superior conj	15975 Jan 24 02:26	18° ≈ 41'05	1°36'25
evening rise	15974 Feb 16 11:05	20°) 15'24	500.110	minimum elong	15975 Jan 24 03:14	18° ≈ 45'27	
		. , (102)			2. 05.14	3 3 3 27	2220

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max. Earth dist.

15976 Dec 22 06:53

16°る16'04 1.31033 AU

15976 Jan 07 01:44

0°≈

superior conj	15976 Dec 23 00:52	17° ප් 56'35			15977 Dec 06 08:16	0°ಕ	
minimum elong	15976 Dec 22 23:36	17° る 49'32	1°34'05		15055 05 10 25	20725102	1000151
	15976 Dec 28 10:57	0°≈ 2°××47/2°		superior conj	15977 Dec 07 10:35	2°る25'03	1°22'51
evening rise	15976 Dec 29 17:47	2°≈47'29		minimum elong	15977 Dec 07 08:34	2° 3 13'54	1°23'24
desc. node	15977 Jan 11 15:13	27°≈37'45		evening rise	15977 Dec 14 03:53	17° る 14'36	
	15977 Jan 13 02:02	0° \ 18° \ 15'39	26911122	dd.	15977 Dec 20 07:57	0°≈ 15°2 255!04	
evening max el	15977 Jan 27 06:00 15977 Feb 10 05:14	25° ¥ 21'19	26°11'22	desc. node	15977 Dec 29 12:04 15978 Jan 08 19:45	15°≈55'04 28°≈42'17	24942150
retrograde		23° H 50'04		evening max el	15978 Jan 10 05:51	28 ≈ 4217 0° ∺	24 42 30
evening set min. Earth dist.	15977 Feb 16 10:05 15977 Feb 20 19:13		0.57847 AU	rotro ara do	15978 Jan 22 13:14	5° ∺ 33'42	
inferior conj	15977 Feb 20 19:13 15977 Feb 23 20:43	21 X 12 23 19° ¥ 00'15		retrograde evening set	15978 Jan 27 21:51	3 ₹3342 4°¥30'09	
minimum elong	15977 Feb 24 05:11	18°) 44'58	3°43'48	min. Earth dist.	15978 Feb 02 07:42	1° ¥ 42'00	0.55993 AU
morning rise	15977 Mar 04 03:29	14° X 35'29	3 43 40	inferior conj	15978 Feb 02 07.42 15978 Feb 04 16:57	0°) 12'15	
direct	15977 Mar 06 02:48	14 \(\)33 29 14°\(\)22'43		3	15978 Feb 05 01:58	0 12 13 29°≈58'07	
asc. node	15977 Mar 08 02:54	14 X 2243 14° X 36'32		minimum elong	15978 Feb 05 00:45	29 ≈3807 30°R≈	3 00 23
morning max el	15977 Mar 14 13:10	14 X 30 32 18° X 31'53	18°36'58	morning rise	15978 Feb 13 08:21	30 k≈ 26°≈08'27	
morning max er	15977 Mar 14 13:10 15977 Mar 22 21:03	16 γ (3133	16 30 36	direct	15978 Feb 15 13:22	25°≈55'10	
morning set	15977 Mar 30 13:20	14° Υ 12'18		asc. node	15978 Feb 23 00:17	23°≈33'10 28°≈38'41	
morning set	15977 Apr 07 19:11	0° 8		asc. node	15978 Feb 24 16:00	20 ≈ 3041 0° ∺	
	139// Apr 0/ 19.11	0.0		morning max el	15978 Feb 25 10:21	0°) 42′59	10°34'10
superior conj	15977 Apr 08 12:04	1° 8 18'47	0°09'59	morning set	15978 Mar 14 16:09	28°) 40'22	17 34 17
minimum elong	15977 Apr 08 12:44	1° 8 21'52	0°09'31	morning set	15978 Mar 15 07:59	0°Υ	
behind sun begin	15977 Apr 08 07:03	0° 8 55'28	0 0931		139/6 Widi 13 U/.39	0 1	
behind sun end	15977 Apr 08 07:03	1° 8 48'14		superior conj	15978 Mar 22 17:11	14° Ƴ 46'37	0°40'10
desc. node	15977 Apr 09 16:41	3° 8 31'18		minimum elong	15978 Mar 22 17:11	14° Y 57'12	0°39'41
max. Earth dist.	15977 Apr 15 20:50	14° 8 34'35	1.40087 AU	desc. node	15978 Mar 27 13:21	24°\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot	0 3941
evening rise	15977 Apr 19 22:55	21° 8 32'44	1.40087 AU	max. Earth dist.	15978 Mar 29 03:00	26° Y '57'22	1.37786 AU
evening rise	15977 Apr 19 22:33 15977 Apr 25 03:10	0°Ⅱ		max. Earth dist.	15978 Mar 30 19:08	0° 8	1.37780 AU
	15977 May 15 20:16	0° ©		evening rise	15978 Apr 01 19:30	3° 8 35'28	
evening max el	15977 May 24 15:54	10°©11'37	23°48'50	evening rise	15978 Apr 18 04:56	0°П	
asc. node	15977 Jun 04 00:31	16°935'57	23 46 30	evening max el	15978 May 07 05:15	24° Ⅱ 05'51	25°07'41
retrograde	15977 Jun 04 00:31	16°937'33		evening max ci	15978 May 14 22:43	0°95	23 0741
evening set	15977 Jun 09 23:29	14° © 20'59		retrograde	15978 May 19 05:57	1°505'40	
min. Earth dist.	15977 Jun 14 16:16	8°951'20	0.68919 AU	asc. node	15978 May 21 21:37	0°936'20	
inferior conj	15977 Jun 15 09:09	7°953'39	0.08919 AU 2°48'08	asc. node	15978 May 21 21.37	0 3 30 20 30°R Ⅱ	
minimum elong	15977 Jun 15 07:30	7° © 59'17	2°47'05	evening set	15978 May 25 01:39	28° Ⅱ 38'49	
morning rise	15977 Jun 20 15:32	1° 5 49'23	2 47 03	min. Earth dist.	15978 May 29 10:25	23° II 46'08	0.68206 AU
direct	15977 Jun 24 18:24	0°513'32		inferior conj	15978 May 30 16:21	23° I I40'08 22° I I08'06	2°21'59
morning max el	15977 Jul	4°9542'51	20°23'44	minimum elong	15978 May 30 10:21 15978 May 30 14:14	22° I I08'00	
desc. node	15977 Jul 06 16:38	9° © 09'05	20 23 44	morning rise	15978 Jun 05 03:10	16° Ⅱ 13'32	2 20 42
desc. flode	15977 Jul 21 15:55	0°Ω		direct	15978 Jun 08 18:32	14° II 57'26	
morning set	15977 Jul 31 07:31	14° Ω 37'03		morning max el	15978 Jun 15 20:19		19°19'52
max. Earth dist.	15977 Aug 09 12:43	29° Ω 04'33	1.44101 AU	desc. node	15978 Jun 23 13:47	28° I I16'25	17 17 32
max. Latin dist.	15977 Aug 09 12:43 15977 Aug 10 02:34	0°m)	1.44101 AC	desc. node	15978 Jun 24 19:19	0°95	
	15) // 11 ug 10 02.5 (پر ان ٽ		greatest brilliancy	15978 Jun 28 12:44	5° 9 24'14	-0.7m
superior conj	15977 Aug 15 16:47	9° m 05'18	-1°48'47	morning set	15978 Jul 10 11:57	23°932'51	0.7111
minimum elong	15977 Aug 16 00:38	-	1°48'24	morning sec	15978 Jul 14 16:25	0°Ω	
evening rise	15977 Aug 28 08:48	0° م 35'49	1 1021	max. Earth dist.	15978 Jul 23 04:46		1.45390 AU
e vennig 1150	15977 Aug 28 00:33	0∘ ⊽		mar. Bartii dibt.	10,70001 25 00	15 0015 21	15570116
asc. node	15977 Aug 31 01:04	5° Ω 14'37		superior conj	15978 Jul 26 17:54	18° Ω 51'02	-2°09'58
evening max el	15977 Sep 14 06:30	26° Ω 38'35	18°01'32	minimum elong	15978 Jul 26 22:44	19° Ω 10'11	
evening man er	15977 Sep 20 06:19	0°M	10 0132	g	15978 Aug 02 17:00	0° m)	_ 10_1
retrograde	15977 Sep 20 18:36	0° ™ 01'19		evening rise	15978 Aug 10 04:18	12° m 13'29	
	15977 Sep 21 06:54	30° ₽ Ω		asc. node	15978 Aug 17 21:44	24° m) 54'42	
evening set	15977 Sep 23 07:08	29° ჲ 30'03			15978 Aug 21 03:09	0∘ ⊽	
inferior conj	15977 Sep 29 20:09	24° Ω 20'46	0°50'03	evening max el	15978 Aug 28 21:16	10° ≏ 11'28	18°13'17
minimum elong	15977 Sep 29 21:33	24° ≏ 17'09	0°49'47	retrograde	15978 Sep 04 06:01	13° ≏ 33'32	
desc. node	15977 Oct 02 13:43	21° Ω 34'15	•	evening set	15978 Sep 07 03:12	12° ≏ 48'32	
min. Earth dist.	15977 Oct 02 18:25	21° Ω 22'44	0.61954 AU	inferior conj	15978 Sep 13 03:27	7° ≏ 22'42	1°48'23
morning rise	15977 Oct 06 09:22	18° ⊆ 17'31		minimum elong	15978 Sep 13 05:27		1°47'41
direct	15977 Oct 13 01:46	15° ⊆ 56'43		min. Earth dist.	15978 Sep 15 13:57	4° £ 36'45	0.64122 AU
morning max el	15977 Oct 27 04:56		27°58'43	morning rise	15978 Sep 19 06:30	1° ⊆ 03'58	
	15977 Nov 01 17:25	0°M	2, 50 15	desc. node	15978 Sep 19 11:07	0° £ 55'03	
	15977 Nov 21 11:49	0° ⊼ ¹		acce. noue	15978 Sep 20 19:20	30°R, m)	
asc. node	15977 Nov 27 02:08	10° ∡ 34'33		direct	15978 Sep 25 20:27	28° Mp 30'16	
morning set	15977 Nov 30 00:52	16° ∡ ³31'15		**** * * *	15978 Oct 01 08:08	0° <u>م</u>	
max. Earth dist.	15977 Dec 05 11:33	28°×706'26	1.31510 AU	morning max el	15978 Oct 09 14:59	6° ≏ 28'36	27°34'53
dibt.					23.2 000 07 11.37		3.23

	15978 Oct 27 16:07	0° M .			15979 Oct 01 00:51	0° ⊽	
morning set	15978 Nov 13 16:48	0° ∡ 01'52			15979 Oct 20 17:25	0° M ₊	
asc. node	15978 Nov 13 23:02	0° ∡ ³32'49		morning set	15979 Oct 27 21:27	13°ML00'30	
	15978 Nov 13 16:26	0° ∡ ¹		asc. node	15979 Oct 31 19:51	20°M39'24	
max. Earth dist.	15978 Nov 18 09:16	9° ∡ ¹36'49	1.32545 AU	max. Earth dist.	15979 Oct 31 21:22	20°M46'59	1.34133 AU
					15979 Nov 05 09:51	0° ∡ ¹	
superior conj	15978 Nov 21 16:37	16° ∡ ³39'55	1°06'11				
minimum elong	15978 Nov 21 14:16	16° ∡ ¹27'11	1°06'34	superior conj	15979 Nov 05 16:39	0° ∡ ³35′29	0°43'25
	15978 Nov 27 19:48	0°ಕ		minimum elong	15979 Nov 05 14:35	0° ∡ 724'42	0°43'41
evening rise	15978 Nov 28 14:42	1° る 41'46		evening rise	15979 Nov 13 00:24	16° ₹ 04'44	
	15978 Dec 14 00:05	0° ≈			15979 Nov 19 22:34	0°ಕ	
desc. node	15978 Dec 16 08:59	3°≈12'39		evening max el	15979 Dec 02 19:35	18° ⋜ 44'34	21°21'05
evening max el	15978 Dec 21 05:08	8°≈39'28	23°00'06	desc. node	15979 Dec 03 06:00	19°る09'46	
retrograde	15979 Jan 03 08:26	15°≈09'38		retrograde	15979 Dec 14 18:39	24°る39'31 24°る20'23	
evening set min. Earth dist.	15979 Jan 07 11:48 15979 Jan 14 14:58	14°≈32'24 11°≈14'19	0.54759 AU	evening set inferior conj	15979 Dec 17 15:49 15979 Dec 26 09:06	24° ろ 20′23	5040120
inferior conj	15979 Jan 15 18:03	11 ≈1419 10°≈35'38		minimum elong	15979 Dec 26 03:10		5°48'00
minimum elong	15979 Jan 15 21:22		5°56'45	min. Earth dist.	15979 Dec 26 20:22	20°る14'10	0.54393 AU
morning rise	15979 Jan 24 08:14	6°≈45'53	3 30 43	morning rise	15980 Jan 03 14:54	16°පි40'10	0.54373 AO
direct	15979 Jan 27 05:36	6°≈26'21		direct	15980 Jan 07 13:23	16° ප 06'36	
morning max el	15979 Feb 07 17:12	11° ≈ 58'52	20°54'53	morning max el	15980 Jan 20 09:43	22° ට 21'15	22°35'40
asc. node	15979 Feb 09 21:38	14° ≈ 16'35		Ü	15980 Jan 26 22:34	0° ≈	
	15979 Feb 20 06:49	0° ∀		asc. node	15980 Jan 27 18:57	1°≈11'42	
morning set	15979 Feb 27 00:18	13°) € 20'03		morning set	15980 Feb 11 11:20	28° ≈ 03'48	
					15980 Feb 12 09:09	0° ∀	
superior conj	15979 Mar 06 10:03	28°) 45′12	1°04'07				
minimum elong	15979 Mar 06 12:36	28° ¥ 58'18	1°03'51	superior conj	15980 Feb 18 11:12		1°21'38
	15979 Mar 07 00:40	0° Υ		minimum elong	15980 Feb 18 13:24	13° ¥ 15'53	1°21'42
max. Earth dist.	15979 Mar 11 11:23	8° Y ′52′53	1.35611 AU	max. Earth dist.	15980 Feb 22 02:23	20°) 41'41	1.33759 AU
desc. node	15979 Mar 14 09:59	14° Y 30′54		evening rise	15980 Feb 26 14:16	29°) 42′54	
evening rise	15979 Mar 15 09:49	16° Y 22'15		1 1	15980 Feb 26 17:47	0°Υ 4° % 50127	
	15979 Mar 23 02:52 15979 Apr 12 15:21	0° Ⅱ		desc. node	15980 Feb 29 06:35 15980 Mar 15 05:25	4° Y 50'27 0° と	
evening max el	15979 Apr 12 13:21 15979 Apr 19 18:50	0 П 7°П56'16	26°16'31	evening max el	15980 Mai 13 03.23 15980 Apr 01 08:34	21° 8 34'07	27°07'49
retrograde	15979 May 02 15:57	15° Ⅱ 18'01	20 1031	retrograde	15980 Apr 14 19:57	29° 8 05'14	27 0749
evening set	15979 May 08 21:50	12° II 45'55		evening set	15980 Apr 21 10:01	26° 8 34'03	
asc. node	15979 May 08 18:48	12° I 52'08		asc. node	15980 Apr 24 16:02	23° 8 32'13	
min. Earth dist.	15979 May 13 00:13	8° Ⅱ 28'47	0.67035 AU	min. Earth dist.	15980 Apr 25 07:37	22° 8 50'00	0.65448 AU
inferior conj	15979 May 14 19:08	6° Ⅱ 16'46	1°44'26	inferior conj	15980 Apr 27 15:08	20° 8 13'02	0°54'19
minimum elong	15979 May 14 17:02	6° Ⅲ 23′16	1°43'05	minimum elong	15980 Apr 27 13:45	20° 8 16'58	0°53'16
morning rise	15979 May 20 13:07	0° Ⅲ 33′08		morning rise	15980 May 03 19:06	14° 8 42'04	
	15979 May 21 15:44	30° ₹ 8		direct	15980 May 06 14:17	14° 8 00'01	
direct	15979 May 23 17:54	29° 8 35'17		morning max el	15980 May 12 21:36	17° 8 16'25	18°00'42
	15979 May 25 21:12	0°II			15980 May 22 09:39	$0^{\circ}\Pi$	
morning max el	15979 May 30 06:30	3° Ⅱ 03'29	18°31'52	desc. node	15980 May 27 07:45	7° Ⅱ 52'52	
desc. node	15979 Jun 10 10:49	17° Ⅱ 53'57		morning set	15980 May 31 04:07	14° Ⅱ 09'29	
	15979 Jun 18 05:41	0°95			15980 Jun 09 23:17	0ං ව	
morning set	15979 Jun 20 06:55	3°©13'17		superior conj	15980 Jun 14 16:27	7° 5 28'37	1°56'14
superior conj	15979 Jul 06 04:33	28°905'22	-2°13'00	minimum elong	15980 Jun 14 08:15	6°956'18	
minimum elong	15979 Jul 06 01:50		2°13'40	max. Earth dist.	15980 Jun 17 20:20	12°926'30	1.45804 AU
max. Earth dist.	15979 Jul 06 00:01	27°5947'41	1.45973 AU		15980 Jun 29 04:11	0°N	
	15979 Jul 07 09:57	0°N		evening rise	15980 Jun 30 19:01	2° £ 29′20	
evening rise	15979 Jul 21 22:50	22° Ω 48′05		greatest brilliancy	15980 Jul 13 22:50	22° Ω 26′29	-0.7m
-	15979 Jul 26 12:12	0° m)			15980 Jul 19 06:08	0° m y	
greatest brilliancy	15979 Jul 30 01:52	5° m 36'15	-0.8m	asc. node	15980 Jul 21 15:11	3° m ,07'37	
asc. node	15979 Aug 04 18:26	14° m) 14'56		evening max el	15980 Jul 25 18:00	7° m 49'55	19°28'27
evening max el	15979 Aug 12 09:54	23° m 57'30	18°42'33	retrograde	15980 Aug 01 21:43	11° m 48'53	
retrograde	15979 Aug 19 00:02	27° m 31'43		evening set	15980 Aug 05 14:08	10° m 30'13	
evening set	15979 Aug 22 06:32	26° Mp 30'36	202017-7	inferior conj	15980 Aug 10 23:09	4° Mp 36'50	2°54'18
inferior conj	15979 Aug 27 21:31	20° m 50'18	2°28'55	minimum elong	15980 Aug 11 00:39	4° Mp 31'52	
minimum elong	15979 Aug 27 23:41	20° Mp 43'33	2°28'13	min. Earth dist.	15980 Aug 12 05:54	2° My 55'20	0.67482 AU
min. Earth dist.	15979 Aug 29 18:22	18° Mp 31'23	0.66002 AU	morning ris-	15980 Aug 14 15:00	30°R Ω 28° Ω 10'30	
morning rise desc. node	15979 Sep 02 15:47 15979 Sep 06 08:30	14° m/24'39 12° m/12'53		morning rise direct	15980 Aug 16 10:36 15980 Aug 22 08:12	$28^{\circ}\Omega 10'30$ $25^{\circ}\Omega 37'20$	
direct	15979 Sep 08 08:30 15979 Sep 08 23:05	12 mg 12 33 11° mg 46'57		desc. node	15980 Aug 22 08.12 15980 Aug 23 05:53	$25^{\circ} \Omega 40'32$	
morning max el	15979 Sep 08 23:03 15979 Sep 22 02:23	11 my 40 37 19° my 33'02	26°40'53	desc. Hode	15980 Aug 23 05:55 15980 Aug 31 10:19	0° m)	
	-57.7 Sep 22 02.23	17 mg 33 02	20 .000		-5,500 ring 51 10.17	יעיי י	

morning max el	15980 Sep 03 13:29 15980 Sep 24 05:04	2° m/55'35 0° <u>₽</u>	25°25'52	inferior conj minimum elong	15981 Jul 26 05:42 15981 Jul 26 06:17	18° Ω 36'56 18° Ω 34'54	3°06'46 3°06'10
morning set	15980 Oct 09 11:10	0 = 25° £ 19'01		min. Earth dist.	15981 Jul 26 22:38	17° Ω 38'45	0.68505 AU
	15980 Oct 12 00:37	0° M ,		morning rise	15981 Jul 31 12:34	12° Ω 13'57	
max. Earth dist.	15980 Oct 13 00:32	1°M51'35	1.36196 AU	direct	15981 Aug 05 22:39	9° Ω 52'06	
asc. node	15980 Oct 17 16:36	10°M50'16		desc. node	15981 Aug 10 03:15	11° Q 01'18	
				morning max el	15981 Aug 17 00:22	16° Ω 28'50	23°59'16
superior conj	15980 Oct 19 07:52	14°M05'02	0°14'49		15981 Aug 28 05:17	0° m)	
minimum elong	15980 Oct 19 06:58	14°M00'31	0°15'08		15981 Sep 17 04:33	0∘ ⊽	
behind sun begin	15980 Oct 19 04:46	13°M49'33		morning set	15981 Sep 21 05:45	6° Ω 47'18	1 20552 ATT
behind sun end evening rise	15980 Oct 19 09:10 15980 Oct 27 06:55	14°M.11'30 0° ₹ 18'46		max. Earth dist.	15981 Sep 24 23:32	13 == 1/3/	1.38552 AU
evening rise	15980 Oct 27 00:35 15980 Oct 27 03:15	0°×7		superior conj	15981 Oct 02 10:41	26° ≏ 59'13	-0°18'46
evening max el	15980 Nov 13 22:54	29° × ⁷ 29'07	19°58'57	minimum elong	15981 Oct 02 12:00	27° ₽ 05'26	
8	15980 Nov 14 11:35	8°0		2	15981 Oct 04 00:34	0° M	
desc. node	15980 Nov 19 03:05	3° る 22'20		asc. node	15981 Oct 04 13:17	1° M 01'11	
retrograde	15980 Nov 24 07:36	4° る 39'05		evening rise	15981 Oct 11 07:42	14°M16'45	
evening set	15980 Nov 26 09:57	4° る 27'22			15981 Oct 19 16:51	0° ∡ ¹	
inferior conj	15980 Dec 05 04:35	0° る 28'39		evening max el	15981 Oct 27 16:26	11° ₹ 03'12	18°58'46
minimum elong	15980 Dec 04 18:32	0°る43'53	4°39'43	retrograde	15981 Nov 05 11:34	15° ₹ 29'15	
· F d F d	15980 Dec 05 23:24	30°₹ ⋌ ¹	0.54072.411	desc. node	15981 Nov 06 00:16	15° ₹ 28'20	
min. Earth dist. morning rise	15980 Dec 07 02:57 15980 Dec 13 02:04	29° ₹ 18'21 26° ₹ 20'04	0.54973 AU	evening set inferior conj	15981 Nov 07 08:52 15981 Nov 15 16:46	15° х 17'49 11° х 01'02	2904'05
direct	15980 Dec 18 01:31	25° x 25'59		minimum elong	15981 Nov 15 09:13	11° x *0102	
direct	15980 Dec 29 05:04	0°る		min. Earth dist.	15981 Nov 18 14:02	9°×7'00'29	0.56382 AU
morning max el	15980 Dec 31 18:26	2° る 13'59	24°25'42	morning rise	15981 Nov 23 06:50	6° х 18′28	
asc. node	15981 Jan 13 16:11	19° ට 06'15		direct	15981 Nov 29 01:50	4° ₹ ′59'31	
	15981 Jan 19 18:02	0° ≈		morning max el	15981 Dec 13 05:11	12° ∡ 14'19	26°06'33
morning set	15981 Jan 25 23:20	12° ≈ 46′23			15981 Dec 26 23:40	ರ°ರ	
				asc. node	15981 Dec 31 13:22	7° る 44'49	
superior conj	15981 Feb 01 18:00	27°≈36'25	1°32'48	morning set	15982 Jan 10 10:28	27°る22'04	
minimum elong	15981 Feb 01 19:22	27°≈43'55	1°33'11		15982 Jan 11 15:35	0° ≈	
max. Earth dist.	15981 Feb 02 20:17 15981 Feb 04 01:15	0° \ 2° \ 36'56	1.32342 AU	superior conj	15982 Jan 17 04:06	12° ≈ 14'37	1027140
evening rise	15981 Feb 04 01:15	2 X 3030 13° X 29'17	1.32342 AU	minimum elong	15982 Jan 17 04:00	12 ≈1437 12°≈16'32	1°38'24
desc. node	15981 Feb 15 03:14	24° X 57'13		max. Earth dist.	15982 Jan 18 06:05	12 ≈ 10 32 14° ≈ 39'07	1.31414 AU
	15981 Feb 17 22:04	0° Υ		evening rise	15982 Jan 24 05:03	27° ≈ 33'47	
	15981 Mar 10 08:10	0° 8		C	15982 Jan 25 09:10	0° ∀	
evening max el	15981 Mar 14 21:05	4° 8 47'56	27°34'07	desc. node	15982 Feb 01 23:56	14°){ 44'49	
retrograde	15981 Mar 28 16:51	12° 8 18'31			15982 Feb 11 05:35	0° Y	
evening set	15981 Apr 04 11:54	9° 8 55'01		evening max el	15982 Feb 25 05:57	17° Y ′24'13	27°29'15
min. Earth dist.	15981 Apr 08 06:35	6° 8 40'17	0.63515 AU	retrograde	15982 Mar 11 05:42	24° Y ′48′18	
inferior conj	15981 Apr 11 01:31	3° 8 50'00		evening set	15982 Mar 18 00:48	22° Y 39'43 19° Y 47'55	0.61222.411
minimum elong transit middle	15981 Apr 11 01:49 15981 Apr 11 01:49	3° 8 49'14 3° 8 49'14	0°09'37 0°09'37	min. Earth dist. inferior conj	15982 Mar 21 19:40 15982 Mar 24 22:56	19°γ4/55 16° Υ 58'52	0.61333 AU
transit begin	15981 Apr 10 23:18	3° 8 55'42	0 0937	minimum elong	15982 Mar 25 02:02	16 γ 58 52	
transit end	15981 Apr 11 04:21	3° 8 42'46		asc. node	15982 Mar 29 10:40	13° Υ 22'41	1 23 33
asc. node	15981 Apr 11 13:20	3° 8 19'56		morning rise	15982 Apr 01 06:32	12° Υ '01'18	
	15981 Apr 15 06:15	30° Ŗ ♈		direct	15982 Apr 03 10:21	11° Y 41'16	
morning rise	15981 Apr 17 18:13	28° Y 34'13		morning max el	15982 Apr 10 07:57	15° Y 09'14	17°51'00
direct	15981 Apr 20 04:58	28° Y ′04'51			15982 Apr 20 15:48	0°8	
	15981 Apr 25 01:47	0° 8		morning set	15982 Apr 26 00:21	9° 8 30'22	
morning max el	15981 Apr 26 15:07	1° 8 21'16	17°46'51	desc. node	15982 May 01 01:26	18° 8 31'51	
morning set	15981 May 13 03:40	26° 8 20'31		:	15092 M 07 00-40	2000 - 5152	0947120
desc. node	15981 May 14 04:37 15981 May 15 07:04	28° ႘ 07'07 0°Ⅱ		superior conj minimum elong	15982 May 07 00:40 15982 May 06 20:23	28° 8 55'52 28° 8 37'33	
	13701 Way 13 07.04	υд		minimum ciong	15982 May 07 15:43	0°Ⅱ	0 47 10
superior conj	15981 May 25 20:52	17° Ⅱ 39'44	-1°24'58	max. Earth dist.	15982 May 14 06:51	11° Ⅱ 02'20	1.43368 AU
minimum elong	15981 May 25 13:04	17° Ⅲ 07'58		evening rise	15982 May 20 22:59	21° Ⅱ 40′59	
max. Earth dist.	15981 May 31 15:25	26° Ⅱ 56'41	1.44905 AU		15982 May 26 08:32	0ං ව	
	15981 Jun 02 13:48	0 \circ \odot			15982 Jun 16 16:14	$0^{\circ}\Omega$	
evening rise	15981 Jun 10 05:30	11° © 52'46		evening max el	15982 Jun 21 16:27	5° Ω 37'25	21°41'53
	15981 Jun 22 07:19	0°N		asc. node	15982 Jun 25 08:52	8° Ω 49'04	
asc. node	15981 Jul 08 11:59	21°Ω23'03	20020112	retrograde	15982 Jun 30 19:17	10° Ω 56'08	
evening max el	15981 Jul 08 20:11 15981 Jul 16 20:43	21° Ω 43'44 26° Ω 18'49	20°29'13	evening set inferior conj	15982 Jul 05 09:22 15982 Jul 10 14:58	9°Ω02'26 2°Ω46'43	3°07'51
retrograde evening set	15981 Jul 16 20:43 15981 Jul 20 23:42	$26^{\circ} \Omega 18^{\circ} 49$ $24^{\circ} \Omega 42'12$		minimum elong	15982 Jul 10 14:38 15982 Jul 10 14:36	2° Ω 46'43	3°07'51 3°07'09
January 301	15701 Jul 20 25.42	∠ . U (¬∠ 1∠		ciong	10,02,001 10 17.30	~ ULT 1 33	5 0, 0)

min. Earth dist.	15982 Jul 10 18:34	2°Ω34'11	0.69045 AU	evening set	15983 Jun 19 17:22	23° © 25'33	
iiiii. Lattii dist.	15982 Jul 12 15:46	2 0€5411 30°RS	0.07043710	min. Earth dist.	15983 Jun 24 15:32	17° © 34'11	0.69100 AU
morning rise	15982 Jul 15 19:40	26°\$29'36		inferior conj	15983 Jun 25 00:57	17° © 01'33	2°58'21
direct	15982 Jul 20 17:30	24°\$23'46		minimum elong	15983 Jun 24 23:43	17°905'50	2°57'26
desc. node	15982 Jul 28 00:34	27° © 51'09		morning rise	15983 Jun 30 05:58	10°952'00	2 37 20
dese. Hode	15982 Jul 30 08:29	0°Ω		direct	15983 Jul 04 15:35	9° © 04'51	
morning max el	15982 Jul 30 12:47	0° Ω 10'44	22°30'19	morning max el	15983 Jul 13 05:18	14°901'07	21°06'47
morning mun vi	15982 Aug 21 23:50	0° mp	3019	desc. node	15983 Jul 14 21:50	15° © 47'18	21 00 .7
morning set	15982 Sep 02 01:30	17° m) 17'34			15983 Jul 25 22:51	0°N	
max. Earth dist.	15982 Sep 07 00:15	25° m 28'34	1.40937 AU	morning set	15983 Aug 12 21:47	26° Ω 48'16	
	15982 Sep 09 16:00	0∘ ⊽			15983 Aug 14 22:38	0° m)	
	r			max. Earth dist.	15983 Aug 20 06:19	8° m) 30'52	1.43075 AU
superior conj	15982 Sep 14 20:57	9° Ω 08'53	-0°55'17		Ü	~	
minimum elong	15982 Sep 15 01:21	9° ჲ 28'36		superior conj	15983 Aug 27 10:14	20° m 23'52	-1°30'58
asc. node	15982 Sep 21 09:58	21° ≏ 08'57		minimum elong	15983 Aug 27 17:30	20° m 54'41	
evening rise	15982 Sep 24 23:33	27° ♀ 50'49		8	15983 Sep 01 23:50	0∘ <u>⊽</u>	
S	15982 Sep 26 03:03	0°M		evening rise	15983 Sep 08 02:09	10° ≏ 49'17	
evening max el	15982 Oct 10 21:16	23°M23'37	18°20'40	asc. node	15983 Sep 08 06:37	11° ≏ 09'17	
retrograde	15982 Oct 18 10:54	27°M14'46			15983 Sep 19 08:26	0°M	
evening set	15982 Oct 20 11:36	26°M58'50		evening max el	15983 Sep 24 09:03	6°M20'06	18°03'06
desc. node	15982 Oct 23 21:31	25°M27'47		retrograde	15983 Oct 01 03:30	9° ™ 49'10	
inferior conj	15982 Oct 28 02:43	22°M21'00	-1°21'24	evening set	15983 Oct 03 11:19	9°M24'34	
minimum elong	15982 Oct 27 23:37	22°M27'20	1°19'33	inferior conj	15983 Oct 10 09:13	4°M26'24	0°07'33
min. Earth dist.	15982 Oct 31 08:43	19°M42'33	0.58372 AU	minimum elong	15983 Oct 10 09:28	4°M25'48	0°07'50
morning rise	15982 Nov 04 08:07	17°M01'24		transit middle	15983 Oct 10 09:28	4°M25'48	0°07'50
direct	15982 Nov 10 16:39	15°M15'27		transit begin	15983 Oct 10 06:35	4° ™ 32'35	
morning max el	15982 Nov 24 23:35	22°M52'12	27°19'58	transit end	15983 Oct 10 12:21	4° ™ 18'59	
	15982 Dec 01 08:37	0° ∡ 7		desc. node	15983 Oct 10 18:51	4°M03'33	
asc. node	15982 Dec 18 10:29	26° х 56′07		min. Earth dist.	15983 Oct 13 12:37	1°M29'23	0.60637 AU
	15982 Dec 20 00:48	ರ°0			15983 Oct 15 06:30	30°R <u>Ω</u>	
morning set	15982 Dec 25 18:55	11° ප් 46'17		morning rise	15983 Oct 17 04:31	28° ჲ 36′28	
. 8				direct	15983 Oct 23 20:02	26° Ω 26'13	
superior conj	15983 Jan 01 15:33	26° る 53'28	1°36'45		15983 Nov 02 01:16	0°M₊	
minimum elong	15983 Jan 01 14:51	26° る 49'30	1°37'26	morning max el	15983 Nov 07 01:42	4°M18'13	27°55'53
max. Earth dist.	15983 Jan 01 13:40	26° ප 42'51	1.31014 AU		15983 Nov 26 03:54	0° ⊼ 7	
	15983 Jan 03 00:52	0° ≈		asc. node	15983 Dec 05 07:31	16° х ⁷ 31'16	
evening rise	15983 Jan 08 10:11	11° ≈ 50'58		morning set	15983 Dec 09 22:47	25° х 54′21	
8	15983 Jan 17 13:16	0°) €		5 8 4 4 4	15983 Dec 11 21:08	0°ප	
desc. node	15983 Jan 19 20:40	4°) €05'49		max. Earth dist.	15983 Dec 15 20:21		1.31162 AU
evening max el	15983 Feb 07 08:33	29°) 11'55	26°49'32				
3	15983 Feb 08 05:18	0°Υ		superior conj	15983 Dec 17 02:29	11° る 27'50	1°29'41
retrograde	15983 Feb 21 09:10	6° Y 25'52		minimum elong	15983 Dec 17 00:52	11° る 18'49	1°30'19
evening set	15983 Feb 27 21:28	4° Υ 39'18		evening rise	15983 Dec 23 19:01	26° පි 16'16	
min. Earth dist.	15983 Mar 03 22:31	2° Υ '00'13	0.59077 AU	<i>y</i>	15983 Dec 25 12:52	0° ≈	
	15983 Mar 06 12:09	30° ₹		desc. node	15984 Jan 06 17:28	22° ≈ 50'32	
inferior conj	15983 Mar 07 03:36	29° ¥ 29'28	-2°54'40		15984 Jan 11 12:10	0°) €	
minimum elong	15983 Mar 07 10:16	29°) 16'24		evening max el	15984 Jan 20 03:10	10° ¥ 07'39	25°36'36
morning rise	15983 Mar 15 02:36	24°) 52'36		retrograde	15984 Feb 03 01:07	17° ¥ 08'09	
asc. node	15983 Mar 16 08:03	24°) (40'27		evening set	15984 Feb 08 22:15	15°) (48'47	
direct	15983 Mar 17 02:03	24° ¥ 38′22		min. Earth dist.	15984 Feb 13 16:02	13° ¥ 08'34	0.56996 AU
morning max el	15983 Mar 24 20:29	28°) 29'27	18°14'17	inferior conj	15984 Feb 16 12:15	11° ¥ 12'57	
	15983 Mar 26 06:39	0°Υ		minimum elong	15984 Feb 16 21:31	10° ¥ 57'12	
morning set	15983 Apr 09 12:18	23° Υ 21'19		morning rise	15984 Feb 24 23:41	6°) €57'21	
	15983 Apr 13 00:59	0°8		direct	15984 Feb 27 00:04	6°) 45′02	
desc. node	15983 Apr 17 22:10	9° 8 02'25		asc. node	15984 Mar 02 05:26	7°) (42'32	
dese. node	10,000 11p1 1, 22.10	, 0,220		morning max el	15984 Mar 07 00:33	11°) 10'06	18°58'29
superior conj	15983 Apr 19 02:53	11° 8 12'32	-0°09'55		15984 Mar 19 11:48	0°Υ	
minimum elong	15983 Apr 19 02:04	11° 8 08'54		morning set	15984 Mar 23 10:49	7° Υ 39'44	
behind sun begin	15983 Apr 18 20:17	10° 8 42'42	3 10 10	g oot	10,0.1741 25 10.47	, 137 44	
behind sun end	15983 Apr 19 07:52	11° 8 35'02		superior conj	15984 Mar 31 23:29	24° Y 18'23	0°23'29
max. Earth dist.	15983 Apr 26 17:08	24° 8 29'00	1.41362 AU	minimum elong	15984 Apr 01 00:56	24°\bar{\gamma}25'19	0°22'59
man. Darm Wist.	15983 Apr 30 00:30	0° Ⅱ	1.71 <i>302 A</i> U	desc. node	15984 Apr 03 18:52	29° Y 35'09	0 22 37
evening rise	15983 May 01 10:40	0 H 2°∏19'44		uese. Houe	15984 Apr 04 00:13	0° 8	
Svening 1150	15983 May 19 16:46	0°9		max. Earth dist.	15984 Apr 07 23:49	7° 8 13'46	1.39109 AU
evening max el	15983 Jun 04 08:19	19° © 31'06	23°01'55	evening rise	15984 Apr 11 19:47	13° 8 54'35	1.57107 AU
asc. node	15983 Jun 04 08:19 15983 Jun 12 05:51	25° © 09'17	45 01 33	evening 1186	•	0°Ⅱ	
asc. node retrograde	15983 Jun 12 05:51 15983 Jun 14 15:49	25°909'17 25°934'28			15984 Apr 21 17:08 15984 May 13 16:11	0₀ © 0∘П	
renograue	13703 Juli 14 13.49	42 دود د 2			1370+ Way 13 10.11	υ Ξ υ	

evening max el	15984 May 16 22:13	3°526'28	24922100	retrograde	15985 May 11 21:42	24° ∏ 30′29	
retrograde	15984 May 28 09:00	10°908'11	24 23 09	asc. node	15985 May 16 00:02	24 H3029 23°H22'15	
asc. node	15984 May 29 02:54	10°905'49		evening set	15985 May 17 21:56	22° I 100'57	
evening set	15984 Jun 02 22:07	7°9647'02		min. Earth dist.	15985 May 17 21:50 15985 May 22 03:55	17° II 23'33	0.67769 AU
min. Earth dist.	15984 Jun 07 11:23	2°932'54	0.68674 AU	inferior conj	15985 May 23 15:18	17 Ⅱ 23 33	2°07'32
inferior conj	15984 Jun 08 09:43	1°917'41	2°38'24	minimum elong	15985 May 23 13:07	15° I I30′28	
minimum elong	15984 Jun 08 07:50		2°37'14	morning rise	15985 May 29 04:49	9° ∏ 40'15	2 00 11
minimum clong	15984 Jun 09 08:59	1 3 2403	2 3/14	direct	15985 Jun 01 15:40	9° Д 4013	
morning rise	15984 Jun 13 17:38	25° Ⅱ 17'07		morning max el	15985 Jun 08 10:41		18°57'22
direct	15984 Jun 17 15:32	23° II 49'39		desc. node	15985 Jun 17 16:08	23° I 53'57	10 37 22
morning max el	15984 Jun 25 04:19	28° I I01'56	19°54'36	greatest brilliancy	15985 Jun 21 16:59	29° II 52'51	-0.7m
morning max or	15984 Jun 27 01:10	0°95	17 3 130	greatest orimaney	15985 Jun 21 18:52	0°95	0.7111
desc. node	15984 Jun 30 19:02	4°932'36		morning set	15985 Jul 01 11:14	14°951'27	
dese. Hode	15984 Jul 18 09:09	0° Ω		morning sec	15985 Jul 11 05:32	0°Ω	
morning set	15984 Jul 22 02:48	5° Ω 42'18		max. Earth dist.	15985 Jul 15 13:18		1.45734 AU
max. Earth dist.	15984 Aug 01 19:07	22°Ω20'41	1.44732 AU	max. Dartif dist.	15705 541 15 15.10	0 001130	1.13731710
max. Earth dist.	15984 Aug 06 14:02	0° m)	1.11/32/10	superior conj	15985 Jul 17 17:22	10° Ω 08'29	-2°13'43
	1370111 u g 00 11.02	∪ ng		minimum elong	15985 Jul 17 19:16	10°Ω15'55	
superior conj	15984 Aug 07 00:00	0° Mp 40'15	-1°59'37	minimum ciong	15985 Jul 30 05:17	0° m)	2 1421
minimum elong	15984 Aug 07 07:17	1° m) 09'41	1°59'33	evening rise	15985 Aug 01 19:27	4° m) 10'50	
evening rise	15984 Aug 20 10:24	22° m/59'35	1 37 33	asc. node	15985 Aug 11 23:55	20° m/30'37	
evening rise	15984 Aug 24 13:30	0∘ ರ		use. Houe	15985 Aug 18 14:37	0° ⊽	
asc. node	15984 Aug 25 03:15	ი∘ ഫ 58'02		evening max el	15985 Aug 21 13:59		18°23'40
evening max el	15984 Sep 06 23:47	0 — 38 02 19° ≏ 42'27	18°04'26	retrograde	15985 Aug 27 23:50	6° £ 47'36	10 23 40
retrograde	15984 Sep 13 09:11	23° £ 02'56	10 0420	evening set	15985 Aug 31 01:01	5° ⊆ 55'47	
evening set	15984 Sep 16 01:25	22° ⊆ 26'05		inferior conj	15985 Sep 05 20:52	ე° ഫ 23'24	2°07'36
inferior conj	15984 Sep 22 08:35	17° ⊆ 09'40	1°17'07	minimum elong	15985 Sep 05 23:12		2°06'53
minimum elong	15984 Sep 22 10:31	17° ⊆ 04'28	1°16'36	minimum clong	15985 Sep 06 04:44	30°RM)	2 00 33
min. Earth dist.	15984 Sep 25 02:18	14° ⊆ 14'40	0.62904 AU	min. Earth dist.	15985 Sep 08 01:35	27° m) 47'45	0.64964 AU
desc. node	15984 Sep 26 16:13	12° £ 41'44	0.02701710	morning rise	15985 Sep 11 19:59	24° Mp 01'04	0.01901710
morning rise	15984 Sep 28 17:23	10° £ 59'00		desc. node	15985 Sep 13 13:36	22° Mp 47'46	
direct	15984 Oct 05 09:33	8° £ 31'29		direct	15985 Sep 18 07:33	21° m) 24'52	
morning max el	15984 Oct 19 09:26	16° £ 29'55	27°52'47	morning max el	15985 Oct 01 20:16	29° m) 18'59	27°15'13
morning max or	15984 Oct 30 13:52	0°M	27 32 17	morning max or	15985 Oct 02 12:22	0₀ ರ	27 13 13
	15984 Nov 17 21:27	0° ⊼			15985 Oct 24 11:22	o° m .	
asc. node	15984 Nov 21 04:26	6° ∡ 722'41		morning set	15985 Nov 06 07:14	22°M57'52	
morning set	15984 Nov 22 19:45	9° × 40'03		asc. node	15985 Nov 08 01:16	26°M25'06	
max. Earth dist.	137071101 22 17.73	7 7 40 03		asc. node	13703 1101 00 01.10	20 11023 00	
	15984 Nov 27, 22:21	200 722223	1 31878 AII		15085 Nov 09 10:54	0∘∡	
	15984 Nov 27 22:21	20° ∡ 22′23	1.31878 AU	may Farth dist	15985 Nov 09 19:54	0° √ 1° √ 44'39	1 33157 AII
superior coni				max. Earth dist.	15985 Nov 09 19:54 15985 Nov 10 16:21		1.33157 AU
superior conj	15984 Nov 30 10:52	25° ₹ 51'26	1°16'33		15985 Nov 10 16:21	1° ⊀ 44'39	
superior conj minimum elong	15984 Nov 30 10:52 15984 Nov 30 08:39	25° ⊀ '51'26 25° ⊀ '39'15		superior conj	15985 Nov 10 16:21 15985 Nov 14 14:39	1° х 44′39 9° х 58′58	0°57'17
minimum elong	15984 Nov 30 10:52 15984 Nov 30 08:39 15984 Dec 02 08:04	25°♂51'26 25°♂39'15 0°♂	1°16'33	superior conj minimum elong	15985 Nov 10 16:21 15985 Nov 14 14:39 15985 Nov 14 12:19	1° ₹44'39 9° ₹58'58 9° ₹46'34	
	15984 Nov 30 10:52 15984 Nov 30 08:39 15984 Dec 02 08:04 15984 Dec 07 05:37	25° メ *51'26 25° メ *39'15 0°る 10°る44'11	1°16'33	superior conj	15985 Nov 10 16:21 15985 Nov 14 14:39 15985 Nov 14 12:19 15985 Nov 21 16:11	1° 🖈 44'39 9° 🖈 58'58 9° 🖈 46'34 25° 🖈 10'32	0°57'17
minimum elong evening rise	15984 Nov 30 10:52 15984 Nov 30 08:39 15984 Dec 02 08:04 15984 Dec 07 05:37 15984 Dec 16 21:35	25° ₹51'26 25° ₹39'15 0° ₹ 10° ₹44'11 0° ≈	1°16'33	superior conj minimum elong evening rise	15985 Nov 10 16:21 15985 Nov 14 14:39 15985 Nov 14 12:19 15985 Nov 21 16:11 15985 Nov 23 23:08	1° ₹44'39 9° ₹58'58 9° ₹46'34 25° ₹10'32 0° ₹	0°57'17
minimum elong evening rise desc. node	15984 Nov 30 10:52 15984 Nov 30 08:39 15984 Dec 02 08:04 15984 Dec 07 05:37 15984 Dec 16 21:35 15984 Dec 23 14:21	25° ₹51'26 25° ₹39'15 0° ₹ 10° ₹44'11 0° ≈ 10° ≈44'58	1°16'33 1°17'02	superior conj minimum elong	15985 Nov 10 16:21 15985 Nov 14 14:39 15985 Nov 14 12:19 15985 Nov 21 16:11 15985 Nov 23 23:08 15985 Dec 10 11:18	1° 🗗 44'39 9° 🗗 58'58 9° 🗗 46'34 25° 🗗 10'32 0° 石 27° 云 31'18	0°57'17
minimum elong evening rise desc. node evening max el	15984 Nov 30 10:52 15984 Nov 30 08:39 15984 Dec 02 08:04 15984 Dec 07 05:37 15984 Dec 16 21:35 15984 Dec 23 14:21 15984 Dec 31 14:28	25° ₹51'26 25° ₹39'15 0° ₹ 10° ₹44'11 0° ≈ 10° ≈44'58 20° ≈19'18	1°16'33	superior conj minimum elong evening rise desc. node	15985 Nov 10 16:21 15985 Nov 14 14:39 15985 Nov 14 12:19 15985 Nov 21 16:11 15985 Nov 23 23:08 15985 Dec 10 11:18 15985 Dec 12 18:39	1° ₹44'39 9° ₹58'58 9° ₹46'34 25° ₹10'32 0° ₹ 27° ₹31'18 0° ≈	0°57'17 0°57'37
minimum elong evening rise desc. node evening max el retrograde	15984 Nov 30 10:52 15984 Nov 30 08:39 15984 Dec 02 08:04 15984 Dec 07 05:37 15984 Dec 16 21:35 15984 Dec 23 14:21 15984 Dec 31 14:28 15985 Jan 14 03:16	25° ₹51'26 25° ₹39'15 0° ₹ 10° ₹44'11 0° ≈ 10° ≈44'58 20° ≈19'18 27° ≈02'11	1°16'33 1°17'02	superior conj minimum elong evening rise desc. node evening max el	15985 Nov 10 16:21 15985 Nov 14 14:39 15985 Nov 14 12:19 15985 Nov 21 16:11 15985 Nov 23 23:08 15985 Dec 10 11:18 15985 Dec 12 18:39 15985 Dec 13 00:42	1° ₹44'39 9° ₹58'58 9° ₹46'34 25° ₹10'32 0° ₹ 27° ₹31'18 0° ≈ 0° ≈14'54	0°57'17 0°57'37
minimum elong evening rise desc. node evening max el retrograde evening set	15984 Nov 30 10:52 15984 Nov 30 08:39 15984 Dec 02 08:04 15984 Dec 07 05:37 15984 Dec 16 21:35 15984 Dec 23 14:21 15984 Dec 31 14:28 15985 Jan 14 03:16 15985 Jan 19 00:15	25° ₹51'26 25° ₹39'15 0° ₹ 10° ₹44'11 0° ≈ 10° ≈44'58 20° ≈19'18 27° ≈02'11 26° ≈10'38	1°16'33 1°17'02 23°59'57	superior conj minimum elong evening rise desc. node evening max el retrograde	15985 Nov 10 16:21 15985 Nov 14 14:39 15985 Nov 14 12:19 15985 Nov 21 16:11 15985 Nov 23 23:08 15985 Dec 10 11:18 15985 Dec 12 18:39 15985 Dec 13 00:42 15985 Dec 25 17:19	9° ₹44'39 9° ₹58'58 9° ₹46'34 25° ₹10'32 0° ₹ 27° ₹31'18 0° ≈ 0° ≈14'54 6° ≈31'38	0°57'17 0°57'37
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist.	15984 Nov 30 10:52 15984 Nov 30 08:39 15984 Dec 02 08:04 15984 Dec 07 05:37 15984 Dec 16 21:35 15984 Dec 23 14:21 15984 Dec 31 14:28 15985 Jan 14 03:16 15985 Jan 19 00:15 15985 Jan 25 02:00	25° ₹51'26 25° ₹39'15 0° ₹ 10° ₹44'11 0° ≈ 10° ≈44'58 20° ≈19'18 27° ≈02'11 26° ≈10'38 23° ≈12'13	1°16'33 1°17'02 23°59'57 0.55379 AU	superior conj minimum elong evening rise desc. node evening max el retrograde evening set	15985 Nov 10 16:21 15985 Nov 14 14:39 15985 Nov 14 12:19 15985 Nov 21 16:11 15985 Nov 23 23:08 15985 Dec 10 11:18 15985 Dec 12 18:39 15985 Dec 13 00:42 15985 Dec 25 17:19 15985 Dec 29 07:32	9° ₹ 58'58 9° ₹ 46'34 25° ₹ 10'32 0° ₹ 27° ₹ 31'18 0° ≈ 0° ≈ 14'54 6° ≈ 31'38 6° ≈ 03'10	0°57'17 0°57'37 22°16'34
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	15984 Nov 30 10:52 15984 Nov 30 08:39 15984 Dec 02 08:04 15984 Dec 07 05:37 15984 Dec 16 21:35 15984 Dec 23 14:21 15984 Dec 31 14:28 15985 Jan 14 03:16 15985 Jan 19 00:15 15985 Jan 25 02:00 15985 Jan 26 23:48	25° ₹51'26 25° ₹39'15 0° ₹ 10° ₹44'11 0° ≈ 10° ≈44'58 20° ≈19'18 27° ≈02'11 26° ≈10'38 23° ≈12'13 22° ≈03'46	1°16'33 1°17'02 23°59'57 0.55379 AU -5°35'13	superior conj minimum elong evening rise desc. node evening max el retrograde evening set inferior conj	15985 Nov 10 16:21 15985 Nov 14 14:39 15985 Nov 14 12:19 15985 Nov 21 16:11 15985 Nov 23 23:08 15985 Dec 10 11:18 15985 Dec 12 18:39 15985 Dec 13 00:42 15985 Dec 25 17:19 15985 Dec 29 07:32 15986 Jan 06 18:59	9° ₹44'39 9° ₹58'58 9° ₹46'34 25° ₹10'32 0° ₹ 27° ₹31'18 0° ≈ 0° ≈14'54 6° ≈31'38 6° ≈03'10 2° ≈11'03	0°57'17 0°57'37 22°16'34 -6°01'52
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	15984 Nov 30 10:52 15984 Nov 30 08:39 15984 Dec 02 08:04 15984 Dec 07 05:37 15984 Dec 16 21:35 15984 Dec 23 14:21 15984 Dec 31 14:28 15985 Jan 14 03:16 15985 Jan 19 00:15 15985 Jan 25 02:00 15985 Jan 26 23:48 15985 Jan 27 07:14	25° ₹51'26 25° ₹39'15 0° ₹ 10° ₹44'11 0° ≈ 10° ≈44'58 20° ≈19'18 27° ≈02'11 26° ≈10'38 23° ≈12'13 22° ≈03'46 21° ≈52'39	1°16'33 1°17'02 23°59'57 0.55379 AU -5°35'13	superior conj minimum elong evening rise desc. node evening max el retrograde evening set inferior conj minimum elong	15985 Nov 10 16:21 15985 Nov 14 14:39 15985 Nov 14 12:19 15985 Nov 21 16:11 15985 Nov 23 23:08 15985 Dec 10 11:18 15985 Dec 12 18:39 15985 Dec 13 00:42 15985 Dec 25 17:19 15985 Dec 29 07:32 15986 Jan 06 18:59 15986 Jan 06 18:19	9° ₹ 58'58 9° ₹ 46'34 25° ₹ 10'32 0° ₹ 27° ₹ 31'18 0° ≈ 0° ≈ 14'54 6° ≈ 31'38 6° ≈ 03'10 2° ≈ 11'03 2° ≈ 12'00	0°57'17 0°57'37 22°16'34 -6°01'52 6°01'09
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	15984 Nov 30 10:52 15984 Nov 30 08:39 15984 Dec 02 08:04 15984 Dec 07 05:37 15984 Dec 16 21:35 15984 Dec 23 14:21 15984 Dec 31 14:28 15985 Jan 14 03:16 15985 Jan 19 00:15 15985 Jan 25 02:00 15985 Jan 26 23:48 15985 Jan 27 07:14 15985 Feb 04 15:54	25° ₹51'26 25° ₹39'15 0° ₹ 10° ₹44'11 0° ≈ 10° ≈44'58 20° ≈19'18 27° ≈02'11 26° ≈10'38 23° ≈12'13 22° ≈03'46 21° ≈52'39 18° ≈06'49	1°16'33 1°17'02 23°59'57 0.55379 AU -5°35'13	superior conj minimum elong evening rise desc. node evening max el retrograde evening set inferior conj	15985 Nov 10 16:21 15985 Nov 14 14:39 15985 Nov 14 12:19 15985 Nov 21 16:11 15985 Nov 23 23:08 15985 Dec 10 11:18 15985 Dec 12 18:39 15985 Dec 13 00:42 15985 Dec 25 17:19 15985 Dec 29 07:32 15986 Jan 06 18:59 15986 Jan 06 18:19 15986 Jan 06 07:39	9° ₹ 58'58 9° ₹ 46'34 25° ₹ 10'32 0° ₹ 27° ₹ 31'18 0° ≈ 0° ≈ 14'54 6° ≈ 31'38 6° ≈ 03'10 2° ≈ 11'03 2° ≈ 12'00 2° ≈ 26'56	0°57'17 0°57'37 22°16'34 -6°01'52
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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	15984 Nov 30 10:52 15984 Nov 30 08:39 15984 Dec 02 08:04 15984 Dec 07 05:37 15984 Dec 16 21:35 15984 Dec 23 14:21 15984 Dec 31 14:28 15985 Jan 14 03:16 15985 Jan 19 00:15 15985 Jan 25 02:00 15985 Jan 25 02:00 15985 Jan 27 07:14 15985 Feb 04 15:54 15985 Feb 07 02:38 15985 Feb 17 02:48 15985 Feb 17 15:52 15985 Feb 23 10:17 15985 Mar 07 16:14 15985 Mar 15 10:02 15985 Mar 15 10:02 15985 Mar 15 10:02 15985 Mar 15 10:02	25° ₹51'26 25° ₹39'15 0° ₹ 10° ₹44'11 0° ≈ 10° ≈44'58 20° ≈19'18 27° ≈02'11 26° ≈10'38 23° ≈12'13 22° ≈03'46 21° ≈52'39 18° ≈06'49 17° ≈51'35 22° ≈27'29 22° ≈58'22 0° ₹ 22° ₹14'04 0° ♀ 8° ♀00'33 8° ♀12'46 19° ♀23'58	1°16'33 1°17'02 23°59'57 0.55379 AU -5°35'13 5°33'28 20°05'38	superior conj minimum elong 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	15985 Nov 10 16:21 15985 Nov 14 14:39 15985 Nov 14 12:19 15985 Nov 21 16:11 15985 Nov 23 23:08 15985 Dec 10 11:18 15985 Dec 12 18:39 15985 Dec 13 00:42 15985 Dec 25 17:19 15985 Dec 29 07:32 15986 Jan 06 18:59 15986 Jan 06 18:19 15986 Jan 06 07:39 15986 Jan 10 21:43 15986 Jan 10 21:43 15986 Jan 15 06:06 15986 Jan 18 13:44 15986 Jan 25 16:11 15986 Jan 30 16:08 15986 Feb 04 00:08 15986 Feb 16 16:56 15986 Feb 20 01:53	9° ₹58'58 9° ₹46'34 25° ₹10'32 0°♂ 27°♂31'18 0°≈ 0°≈14'54 6°≈31'38 6°≈03'10 2°≈11'03 2°≈12'00 2°≈26'56 30° ₹♂ 28°♂23'46 27°♂59'10 0°≈ 3°≈49'36 8°≈49'36 8°≈49'36	0°57'17 0°57'37 22°16'34 -6°01'52 6°01'09 0.54495 AU 21°35'40
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	15984 Nov 30 10:52 15984 Nov 30 08:39 15984 Dec 02 08:04 15984 Dec 07 05:37 15984 Dec 16 21:35 15984 Dec 23 14:21 15984 Dec 31 14:28 15985 Jan 14 03:16 15985 Jan 25 02:00 15985 Jan 25 02:00 15985 Jan 27 07:14 15985 Feb 04 15:54 15985 Feb 07 02:38 15985 Feb 17 02:48 15985 Feb 17 15:52 15985 Feb 23 10:17 15985 Mar 07 16:14 15985 Mar 15 10:02 15985 Mar 15 10:02 15985 Mar 21 06:37 15985 Mar 21 15:30	25° ₹51'26 25° ₹39'15 0° ₹ 10° ₹44'11 0° ≈ 10° ≈44'58 20° ≈19'18 27° ≈02'11 26° ≈10'38 23° ≈12'13 22° ≈03'46 21° ≈52'39 18° ≈06'49 17° ≈51'35 22° ≈27'29 22° ≈58'22 0° ¥ 22° ¥14'04 0° ♀ 8° ♀00'33 8° ♀12'46 19° ♀23'58 20° ♀05'44	1°16'33 1°17'02 23°59'57 0.55379 AU -5°35'13 5°33'28 20°05'38	superior conj minimum elong 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	15985 Nov 10 16:21 15985 Nov 14 14:39 15985 Nov 14 12:19 15985 Nov 21 16:11 15985 Nov 23 23:08 15985 Dec 10 11:18 15985 Dec 12 18:39 15985 Dec 13 00:42 15985 Dec 25 17:19 15986 Jan 06 18:59 15986 Jan 06 18:59 15986 Jan 06 07:39 15986 Jan 10 21:43 15986 Jan 10 21:43 15986 Jan 15 06:06 15986 Jan 15 06:06 15986 Jan 25 16:11 15986 Jan 30 16:08 15986 Feb 04 00:08 15986 Feb 16 16:56 15986 Feb 20 01:53	9° ₹ 58'58 9° ₹ 46'34 25° ₹ 10'32 0° ₹ 27° ₹ 31'18 0° ≈ 0° ≈ 14'54 6° ≈ 31'38 6° ≈ 03'10 2° ≈ 11'03 2° ≈ 12'00 2° ≈ 26'56 30° ₹ ₹ 28° ₹ 23'46 27° ₹ 59'10 0° ≈ 3° ≈ 49'36 8° ≈ 40'22 0° ₹ 6° 升 56'33 22° ★ 08'56 22° ★ 21'49	0°57'17 0°57'37 22°16'34 -6°01'52 6°01'09 0.54495 AU 21°35'40
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	15984 Nov 30 10:52 15984 Nov 30 08:39 15984 Dec 02 08:04 15984 Dec 07 05:37 15984 Dec 16 21:35 15984 Dec 23 14:21 15984 Dec 31 14:28 15985 Jan 14 03:16 15985 Jan 25 02:00 15985 Jan 25 02:00 15985 Jan 27 07:14 15985 Feb 04 15:54 15985 Feb 07 02:38 15985 Feb 17 02:48 15985 Feb 17 15:52 15985 Feb 23 10:17 15985 Mar 07 16:14 15985 Mar 11 11:14 15985 Mar 15 10:02 15985 Mar 21 06:37 15985 Mar 21 15:30 15985 Mar 21 15:30 15985 Mar 25 00:22	25° ₹51'26 25° ₹39'15 0° ₹ 10° ₹44'11 0° ≈ 10° ≈44'58 20° ≈19'18 27° ≈02'11 26° ≈10'38 23° ≈12'13 22° ≈03'46 21° ≈52'39 18° ≈06'49 17° ≈51'35 22° ≈27'29 22° ≈58'22 0° ¥ 22° ¥14'04 0° ♀ 8° ♀00'33 8° ♀12'46 19° ♀23'58 20° ♀05'44 26° ♀17'36	1°16'33 1°17'02 23°59'57 0.55379 AU -5°35'13 5°33'28 20°05'38	superior conj minimum elong 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	15985 Nov 10 16:21 15985 Nov 14 14:39 15985 Nov 14 12:19 15985 Nov 21 16:11 15985 Nov 23 23:08 15985 Dec 10 11:18 15985 Dec 12 18:39 15985 Dec 25 17:19 15985 Dec 29 07:32 15986 Jan 06 18:59 15986 Jan 06 18:19 15986 Jan 10 21:43 15986 Jan 10 21:43 15986 Jan 15 06:06 15986 Jan 15 06:06 15986 Jan 25 16:11 15986 Jan 30 16:08 15986 Feb 04 00:08 15986 Feb 16 16:56 15986 Feb 27 06:48 15986 Feb 27 06:48 15986 Feb 27 06:48 15986 Feb 27 09:16 15986 Mar 03 02:38	9° ₹58'58 9° ₹46'34 25° ₹10'32 0°♂ 27°♂31'18 0°≈ 0°≈14'54 6°≈31'38 6°≈03'10 2°≈11'03 2°≈12'00 2°≈26'56 30° ₹♂ 28°♂23'46 27°♂59'10 0°≈ 3°≈49'36 8°≈40'22 0° ₹ 6° ₹56'33 22° ₹08'56 22° ₹21'49 0° ♥	0°57'17 0°57'37 22°16'34 -6°01'52 6°01'09 0.54495 AU 21°35'40
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	15984 Nov 30 10:52 15984 Nov 30 08:39 15984 Dec 02 08:04 15984 Dec 07 05:37 15984 Dec 16 21:35 15984 Dec 23 14:21 15984 Dec 31 14:28 15985 Jan 14 03:16 15985 Jan 25 02:00 15985 Jan 25 02:00 15985 Jan 26 23:48 15985 Jan 27 07:14 15985 Feb 04 15:54 15985 Feb 07 02:38 15985 Feb 17 02:48 15985 Feb 17 15:52 15985 Feb 23 10:17 15985 Mar 07 16:14 15985 Mar 11 11:14 15985 Mar 15 10:02 15985 Mar 21 06:37 15985 Mar 21 15:30 15985 Mar 25 00:22 15985 Mar 27 02:20	25° ₹31'26 25° ₹39'15 0° ₹ 10° ₹44'11 0° ≈ 10° ≈44'58 20° ≈19'18 27° ≈02'11 26° ≈10'38 23° ≈12'13 22° ≈03'46 21° ≈52'39 18° ≈06'49 17° ≈51'35 22° ≈27'29 22° ≈58'22 0° ₹ 22° ₹14'04 0° ♀ 8° ♀00'33 8° ♀12'46 19° ♀23'58 20° ♀05'44 26° ♀17'36 0° ₹	1°16'33 1°17'02 23°59'57 0.55379 AU -5°35'13 5°33'28 20°05'38	superior conj minimum elong 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.	15985 Nov 10 16:21 15985 Nov 14 14:39 15985 Nov 14 12:19 15985 Nov 21 16:11 15985 Nov 23 23:08 15985 Dec 10 11:18 15985 Dec 12 18:39 15985 Dec 25 17:19 15985 Dec 29 07:32 15986 Jan 06 18:59 15986 Jan 06 18:19 15986 Jan 10 21:43 15986 Jan 10 21:43 15986 Jan 15 06:06 15986 Jan 18 13:44 15986 Jan 25 16:11 15986 Jan 30 16:08 15986 Feb 04 00:08 15986 Feb 16 16:56 15986 Feb 27 06:48 15986 Feb 27 06:48 15986 Feb 27 09:16 15986 Mar 03 02:38 15986 Mar 03 02:38	9° ₹58'58 9° ₹46'34 25° ₹10'32 0° ₹ 27° ₹31'18 0° ≈ 0° ≈14'54 6° ≈31'38 6° ≈03'10 2° ≈12'00 2° ≈26'56 30° ₹₹ 28° ₹23'46 27° ₹59'10 0° ≈ 3° ≈49'36 8° ≈40'22 0° ₹ 6° ₹56'33 22° ₹08'56 22° ₹21'49 0° ₹ 1° ₹15'52	0°57'17 0°57'37 22°16'34 -6°01'52 6°01'09 0.54495 AU 21°35'40
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	15984 Nov 30 10:52 15984 Nov 30 08:39 15984 Dec 02 08:04 15984 Dec 07 05:37 15984 Dec 16 21:35 15984 Dec 23 14:21 15984 Dec 31 14:28 15985 Jan 14 03:16 15985 Jan 25 02:00 15985 Jan 25 02:00 15985 Jan 27 07:14 15985 Feb 04 15:54 15985 Feb 07 02:38 15985 Feb 17 02:48 15985 Feb 17 15:52 15985 Feb 23 10:17 15985 Mar 07 16:14 15985 Mar 11 11:14 15985 Mar 15 10:02 15985 Mar 21 06:37 15985 Mar 21 15:30 15985 Mar 21 15:30 15985 Mar 25 00:22	25° ₹51'26 25° ₹39'15 0° ₹ 10° ₹44'11 0° ≈ 10° ≈44'58 20° ≈19'18 27° ≈02'11 26° ≈10'38 23° ≈12'13 22° ≈03'46 21° ≈52'39 18° ≈06'49 17° ≈51'35 22° ≈27'29 22° ≈58'22 0° ¥ 22° ¥14'04 0° ♀ 8° ♀00'33 8° ♀12'46 19° ♀23'58 20° ♀05'44 26° ♀17'36	1°16'33 1°17'02 23°59'57 0.55379 AU -5°35'13 5°33'28 20°05'38 0°51'06 0°50'41 1.36843 AU	superior conj minimum elong 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	15985 Nov 10 16:21 15985 Nov 14 14:39 15985 Nov 14 12:19 15985 Nov 21 16:11 15985 Nov 23 23:08 15985 Dec 10 11:18 15985 Dec 12 18:39 15985 Dec 25 17:19 15985 Dec 29 07:32 15986 Jan 06 18:59 15986 Jan 06 18:19 15986 Jan 10 21:43 15986 Jan 10 21:43 15986 Jan 15 06:06 15986 Jan 15 06:06 15986 Jan 25 16:11 15986 Jan 30 16:08 15986 Feb 04 00:08 15986 Feb 16 16:56 15986 Feb 27 06:48 15986 Feb 27 06:48 15986 Feb 27 06:48 15986 Feb 27 09:16 15986 Mar 03 02:38	9° ₹58'58 9° ₹46'34 25° ₹10'32 0°♂ 27°♂31'18 0°≈ 0°≈14'54 6°≈31'38 6°≈03'10 2°≈11'03 2°≈12'00 2°≈26'56 30° ₹♂ 28°♂23'46 27°♂59'10 0°≈ 3°≈49'36 8°≈40'22 0° ₹ 6° ₹56'33 22° ₹08'56 22° ₹21'49 0° ♥	0°57'17 0°57'37 22°16'34 -6°01'52 6°01'09 0.54495 AU 21°35'40

	15006 Maii 10 16:10	۰		J J.	15007 E-L 22 00.45	0° Ƴ 45'41	
	15986 Mar 19 16:10	0° B		desc. node	15987 Feb 23 08:45		
	15986 Apr 10 22:43	0°II			15987 Mar 13 08:39	0° 8	
evening max el	15986 Apr 12 01:30	1° Ⅱ 06'49	26°40'49	evening max el	15987 Mar 25 14:46	14° 8 36'00	27°22'22
retrograde	15986 Apr 25 05:05	8° Ⅱ 33'24		retrograde	15987 Apr 08 06:23	22° 8 08'35	
evening set	15986 May 01 14:57	6° Ⅱ 00'45		evening set	15987 Apr 14 23:09	19° 8 39'25	
asc. node	15986 May 02 21:15	4° ∏ 54'18		min. Earth dist.	15987 Apr 18 19:03	16° 8 08'43	0.64664 AU
min. Earth dist.	15986 May 05 15:05	1° Ⅱ 58'19	0.66416 AU	asc. node	15987 Apr 19 18:31	15° 8 05'57	
	15986 May 07 06:56	30° ₹ 8		inferior conj	15987 Apr 21 07:49	13° 8 24'07	0°29'01
inferior conj	15986 May 07 15:30	29° 8 34'26	1°24'46	minimum elong	15987 Apr 21 07:01	13° 8 26'18	0°28'14
minimum elong	15986 May 07 13:35	29° 8 40'06	1°23'29	morning rise	15987 Apr 27 16:56	7° 8 59'36	
morning rise	15986 May 13 13:24	23° 8 56'10		direct	15987 Apr 30 08:18	7° 8 23'27	
direct	15986 May 16 14:02	23° 8 05'19		morning max el	15987 May 06 15:54	10° 8 38'28	17°52'40
	•	26° 8 26'37	18°16'31	morning max ci	•	0°Ⅱ	17 32 40
morning max el	15986 May 22 23:16		18-10-31		15987 May 20 03:06		
	15986 May 26 03:28	0°II		desc. node	15987 May 22 10:02	3° Ⅱ 47'56	
desc. node	15986 Jun 04 13:07	13° Ⅱ 41′22		morning set	15987 May 24 01:38	6° Ⅱ 32'47	
morning set	15986 Jun 11 16:41	25° Ⅱ 02'40					
	15986 Jun 14 19:23	0		superior conj	15987 Jun 06 19:59	29° Ⅱ 02'04	-1°44'17
				minimum elong	15987 Jun 06 11:20	28° Ⅲ 27'32	1°44'13
superior conj	15986 Jun 27 02:19	19° 5 20'40	-2°08'07		15987 Jun 07 10:32	0 \circ \odot	
minimum elong	15986 Jun 26 20:36	18° © 58'22	2°08'38	max. Earth dist.	15987 Jun 11 05:37	6°ഇ00'02	1.45504 AU
max. Earth dist.	15986 Jun 28 09:44	21° © 23'13	1.45993 AU	evening rise	15987 Jun 22 17:44	23° © 49'13	
	15986 Jul 03 22:30	0°N		Ü	15987 Jun 26 19:03	0°N	
evening rise	15986 Jul 13 03:37	14° Ω 20'23		greatest brilliancy	15987 Jul 07 09:22	15° Ω 47'52	-0.6m
evening rise	15986 Jul 23 06:25	0° m		asc. node	15987 Jul 16 17:26	28°Ω18'52	-0.0111
4 41 311		•	0.0	asc. node			
greatest brilliancy	15986 Jul 23 14:13	0° m, 29'39	-0.8m		15987 Jul 18 05:28	0° m)	
asc. node	15986 Jul 29 20:38	9° m/40'12		evening max el	15987 Jul 19 06:29	1° Mp 04'43	19°52'34
evening max el	15986 Aug 05 00:51	17° m) 11'14	19°00'05	retrograde	15987 Jul 26 18:27	5° m) 18'18	
retrograde	15986 Aug 11 19:51	20° m 54'45		evening set	15987 Jul 30 15:12	3° Mp 52′08	
evening set	15986 Aug 15 06:29	19° m 46'12			15987 Aug 03 08:15	30° ₹ €	
inferior conj	15986 Aug 20 18:30	13° m 59'53	2°41'24	inferior conj	15987 Aug 04 22:35	27° Ω 53′26	3°01'03
minimum elong	15986 Aug 20 20:26	13° m 53'41	2°40'44	minimum elong	15987 Aug 04 23:43	27° Ω 49'36	3°00'27
min. Earth dist.	15986 Aug 22 09:15	11° Mp 56'06	0.66680 AU	min. Earth dist.	15987 Aug 05 23:25	26° Ω 29'43	0.67973 AU
morning rise	15986 Aug 26 09:36	7° mp 33'11		morning rise	15987 Aug 10 07:46	21° Ω 27'49	
desc. node	15986 Aug 31 11:01	5° mp 01'17		direct	15987 Aug 16 00:32	18° Ω 58'41	
direct	15986 Sep 01 12:53	4° Mp 56'47		desc. node	15987 Aug 18 08:24	19° Ω 20'04	
morning max el	15986 Sep 14 07:51	12° m) 33'02	26011104	morning max el	15987 Aug 27 18:55	26°Ω01'34	24°49'46
morning max er			20 11 04	morning max er	Č		24 49 40
	15986 Sep 28 09:42	0° ⊽			15987 Aug 31 10:39	0° m)	
_	15986 Oct 17 03:22	0° M ₊			15987 Sep 21 22:26	0∘ ত	
morning set	15986 Oct 20 05:59	5°M40'13		morning set	15987 Oct 02 12:05	17° ≏ 38'45	
max. Earth dist.	15986 Oct 24 00:35	12°M50'39	1.34961 AU	max. Earth dist.	15987 Oct 06 00:55	23° ≏ 59'23	1.37174 AU
asc. node	15986 Oct 25 22:03	16°M33'45			15987 Oct 09 06:30	0°M₊	
superior conj	15986 Oct 29 11:15	23°M43'44	0°31'58	superior conj	15987 Oct 12 21:38	6°M₅59'02	0°01'05
minimum elong	15986 Oct 29 09:33	23°MJ35'03	0°32'14	minimum elong	15987 Oct 12 21:33	6°M58'36	0°01'28
	15986 Nov 01 11:53	0° ∡ ¹		behind sun begin	15987 Oct 12 14:58	6°M26'30	
evening rise	15986 Nov 06 00:47	9° ∡ ³30′04		behind sun end	15987 Oct 13 04:07	7°MJ30'46	
Č	15986 Nov 16 19:23	0°ಕ		asc. node	15987 Oct 12 18:46	6°ML45'01	
evening max el	15986 Nov 24 19:45	10° ට 32'45	20°43'34	evening rise	15987 Oct 21 05:12	23°MJ37'48	
desc. node	15986 Nov 27 08:21	12° ප් 46'39	20 .55.	evening rise	15987 Oct 24 09:57	0° ⊼ ¹	
retrograde	15986 Dec 06 03:23	12 3 4037		evening max el	15987 Nov 07 05:18	21° х 38'08	19°30'36
-		16 30937 15°る55'08		•			19 30 30
evening set	15986 Dec 08 14:35		5007105	desc. node	15987 Nov 14 05:30	26° ₹ 07'06	
inferior conj	15986 Dec 17 09:59	12°る02'24		retrograde	15987 Nov 16 21:34	26° × 28'39	
minimum elong	15986 Dec 17 01:21	12° る 14'51		evening set	15987 Nov 18 20:08	26° ∡ 17'52 −	
min. Earth dist.	15986 Dec 18 13:04	11° ට 23'24	0.54521 AU	inferior conj	15987 Nov 27 11:27	22° ∡ 12'37	-4°03'17
morning rise	15986 Dec 25 12:00	8° る 06'55		minimum elong	15987 Nov 27 01:55	22° х 27'54	3°59'26
direct	15986 Dec 29 21:14	7° る 25'36		min. Earth dist.	15987 Nov 29 21:31	20° ∡ ³39'35	0.55478 AU
morning max el	15987 Jan 12 04:18	13° る 55'33	23°22'29	morning rise	15987 Dec 05 05:43	17° ∡ 50′22	
asc. node	15987 Jan 21 21:23	26° る 02'29		direct	15987 Dec 10 14:14	16° ∡ ¹45'55	
	15987 Jan 24 08:42	0° ≈		morning max el	15987 Dec 24 12:53	23° х¹ 47′02	25°11'00
morning set	15987 Feb 04 13:35	21° ≈ 40'48		-	15987 Dec 30 03:51	0°ರ	
Č	15987 Feb 08 09:54	0°) €		asc. node	15988 Jan 08 18:36	14° ට 17'09	
					15988 Jan 17 01:19	0°≈	
superior conj	15987 Feb 11 10:41	6°) 34'58	1°27'08	morning set	15988 Jan 20 01:24	6°≈20'47	
minimum elong	15987 Feb 11 12:34	6° \(\frac{1}{45}\)	1°27'20	morning sec	10700 Juli 20 01.24	5 / 3 ·20 7 /	
max. Earth dist.		13° H 06'24	1.33092 AU	superior coni	15988 Jan 26 19:08	2100010120	1°35'40
	15987 Feb 14 12:04		1.33094 AU	superior conj		21°≈10'30	
evening rise	15987 Feb 19 06:33	22°) 52′24		minimum elong	15988 Jan 26 20:05	21°≈15'44	1°36'10
	15987 Feb 22 23:00	0° Ƴ		max. Earth dist.	15988 Jan 28 13:31	25°≈03'32	1.31874 AU

	15000 1 20 20 12	001/			15000 X 10 05 57	50 - 40117	1020145
	15988 Jan 30 20:13	0°) (minimum elong	15989 Jan 10 05:57	5°≈49'17	
evening rise	15988 Feb 03 01:38 15988 Feb 10 05:24	6°\(\frac{47}{15}\)		max. Earth dist.	15989 Jan 10 19:55	7°≈07'24	1.31176 AU
desc. node	15988 Feb 10 05:24 15988 Feb 15 11:52	20° π 45'06 0° Υ		evening rise	15989 Jan 17 03:47 15989 Jan 21 13:31	20°≈58'17 0°) €	
arraning may al		27° Υ 35'30	27°36'16	desc. node	15989 Jan 27 02:09	0 X 10° ¥ 22'44	
evening max el	15988 Mar 07 01:58 15988 Mar 09 18:44	0° 8	27 30 10	desc. node	15989 Feb 08 17:29	10 Υ 22 44 0° Υ	
retrograde	15988 Mar 21 00:21	5° 8 04'48		evening max el	15989 Feb 17 08:45	9° Υ 53'11	27°16'49
evening set	15988 Mar 27 19:56	2° 8 46'47		retrograde	15989 Mar 03 09:21	17° Υ 12'50	27 1049
evening set	15988 Mar 31 06:38	2 0 4047 30° R Υ		evening set	15989 Mar 10 02:19	15° Υ 13'14	
min. Earth dist.	15988 Mar 31 14:09	29° Υ '42'37	0.62601 AU	min. Earth dist.	15989 Mar 13 23:03	12° Υ 28'01	0.60369 AU
inferior conj	15988 Apr 03 13:09	26° Υ '50'41		inferior conj	15989 Mar 17 03:55	9° Υ '44'52	
minimum elong	15988 Apr 03 14:31	26° Y '47'23	0°40'16	minimum elong	15989 Mar 17 08:30	9° Υ 35'06	2°01'14
asc. node	15988 Apr 05 15:51	24° Y ′51'45		asc. node	15989 Mar 23 13:12	5°Υ20'29	_ ,
morning rise	15988 Apr 10 12:00	21° Υ ′42'20		morning rise	15989 Mar 24 18:07	4°Υ′55'26	
direct	15988 Apr 12 19:26	21° Y °17'29		direct	15989 Mar 26 19:38	4° Υ 38'17	
morning max el	15988 Apr 19 09:34	24° Y '37'47	17°46'20	morning max el	15989 Apr 03 00:58	8° Y 14'57	17°58'25
S	15988 Apr 23 20:01	0°8		C	15989 Apr 17 03:38	0° ႘	
morning set	15988 May 05 10:59	19° 8 11'27		morning set	15989 Apr 18 14:50	2° 8 41'01	
desc. node	15988 May 08 06:52	24° 8 07'21		desc. node	15989 Apr 25 03:39	14° 8 35'03	
	15988 May 11 16:32	$\Pi^{\circ}0$			•		
				superior conj	15989 Apr 28 23:48	21° 8 23'28	-0°31'10
superior conj	15988 May 17 10:08	9°Ⅱ40'46	-1°09'20	minimum elong	15989 Apr 28 21:06	21° 8 11'40	0°31'17
minimum elong	15988 May 17 03:40	9° Ⅱ 13'55	1°09'10		15989 May 04 00:10	Π $^{\circ}0$	
max. Earth dist.	15988 May 23 22:53	20° Ⅱ 19′59	1.44324 AU	max. Earth dist.	15989 May 06 12:21	4° Ⅱ 11′00	1.42569 AU
	15988 May 30 01:56	0 \circ \odot		evening rise	15989 May 12 05:45	13° Ⅲ 27'15	
evening rise	15988 Jun 01 05:18	3° 5 18'48			15989 May 23 00:50	0 \circ \odot	
	15988 Jun 19 06:17	0 $^{\circ}\Omega$		evening max el	15989 Jun 14 00:26	28° © 53'13	22°15'22
evening max el	15988 Jul 01 06:07	14° Ω 58'54	20°58'55		15989 Jun 15 04:10	0 $^{\circ}\Omega$	
asc. node	15988 Jul 02 14:18	16° Ω 15'17		asc. node	15989 Jun 19 11:14	3° Ω 15'43	
retrograde	15988 Jul 09 17:27	19° Ω 51'56		retrograde	15989 Jun 23 15:11	4° Ω 30'30	
evening set	15988 Jul 14 01:01	18° Ω 08′08		evening set	15989 Jun 28 10:10	2° Ω 30′05	
inferior conj	15988 Jul 19 06:35	11° Ω 58′23	3°08'31		15989 Jun 30 19:41	30°ષ્દ્	
minimum elong	15988 Jul 19 06:46	11° Ω 57'45	3°07'54	inferior conj	15989 Jul 03 16:23	26° © 10'48	3°05'04
min. Earth dist.	15988 Jul 19 17:53	11° Ω 19'11	0.68800 AU	minimum elong	15989 Jul 03 15:38	26° © 13'25	3°04'17
morning rise	15988 Jul 24 12:13	5° Ω 37'30		min. Earth dist.	15989 Jul 03 14:27	26° © 17'33	0.69139 AU
direct	15988 Jul 29 17:12	3° Ω 21'44		morning rise	15989 Jul 08 20:55	19° © 56'51	
desc. node	15988 Aug 04 05:44	5° Ω 21'39		direct	15989 Jul 13 13:38	17°558'36	
morning max el	15988 Aug 09 06:00	9° Ω 38′03	23°21'02	desc. node	15989 Jul 22 03:02	22°5642'09	
	15988 Aug 25 08:15	0° m)		morning max el	15989 Jul 22 19:41	23°\$22'54	21°53'35
morning set	15988 Sep 12 21:18	28° m/43'15			15989 Jul 28 15:03	0° N	
F 4 F 4	15988 Sep 13 15:37	0° 亞	1 20500 ATT	. ,	15989 Aug 18 16:10	0° M)	
max. Earth dist.	15988 Sep 16 23:28	5° ≏ 40'35	1.39580 AU	morning set	15989 Aug 24 06:42	8° Mp 46'54	1 41000 ATT
superior conj	15988 Sep 24 17:59	19° ≏ 35'58	0°24'06	max. Earth dist.	15989 Aug 30 02:33 15989 Sep 06 00:39	18° ™ 14'58 0° Ω	1.41899 AU
minimum elong	15988 Sep 24 17.39 15988 Sep 24 20:32	19 2 33 38 19° 2 47'46			13989 Sep 00 00.39	0 ==	
asc. node	15988 Sep 24 20.32 15988 Sep 28 15:29	26° £ 55'26	0 33 28	superior conj	15989 Sep 06 19:50	1° ≏ 23'42	1010/51
asc. Houc	15988 Sep 30 06:04	0°M₁		minimum elong	15989 Sep 07 01:35	1° 2 48'55	
evening rise	15988 Oct 04 02:37	7°M26'46		asc. node	15989 Sep 07 01:33 15989 Sep 15 12:09	17° ⊆ 4033	1 1007
2. cg 1100	15988 Oct 17 03:01	0° √		evening rise	15989 Sep 17 13:23	20° £ 47′10	
evening max el	15988 Oct 20 04:17	3° ∡ ¹33'53	18°40'01		15989 Sep 22 14:39	0°M	
retrograde	15988 Oct 28 09:27	7° ∡ 743′10	10 1001	evening max el	15989 Oct 03 12:36	16°M10'53	18°10'46
evening set	15988 Oct 30 07:38	7° ∡ ³30′16		retrograde	15989 Oct 10 16:37	19°M50'55	
desc. node	15988 Oct 31 02:44	7° ∡ 17'46		evening set	15989 Oct 12 20:13	19° M 31'38	
inferior conj	15988 Nov 07 08:45	3° ∡ ¹04'50	-2°19'35	desc. node	15989 Oct 18 00:01	16°M33'22	
minimum elong	15988 Nov 07 03:06	3° ∡ 15′22		inferior conj	15989 Oct 20 03:47	14°M44'36	-0°41'22
min. Earth dist.	15988 Nov 10 11:33	0° ∡ ¹46'04	0.57177 AU	minimum elong	15989 Oct 20 02:18	14° M 47'49	0°40'17
	15988 Nov 11 14:03	30°RM		min. Earth dist.	15989 Oct 23 09:40	11°M56'03	0.59321 AU
morning rise	15988 Nov 14 19:22	28°M06'31		morning rise	15989 Oct 27 05:02	9° ™ 11'16	
direct	15988 Nov 20 21:13	26°M35'44		direct	15989 Nov 02 17:21	7° IL 14'39	
	15988 Nov 30 06:42	0° ∡ ¹		morning max el	15989 Nov 17 00:04	14° M 57'50	27°40'12
morning max el	15988 Dec 05 02:19	4° ₹ 00'19	26°41'57		15989 Nov 29 04:35	0° ∡ ¹	
	15988 Dec 23 21:21	8°0		asc. node	15989 Dec 12 12:49	22° ∡ ³33'31	
asc. node	15988 Dec 25 15:44	3° ⋜ 11'08			15989 Dec 16 06:51	ರ°0	
morning set	15989 Jan 03 11:36	20° ප 52'11		morning set	15989 Dec 18 18:19	5° る 09'50	
	15989 Jan 07 15:27	0° ≈		max. Earth dist.	15989 Dec 25 03:45	19° る 10'16	1.31013 AU
						_	
superior conj	15989 Jan 10 06:03	5° ≈ 49'54	1°38'05	superior conj	15989 Dec 25 17:28	20°る27'01	1°34'29

minimum elong	15989 Dec 25 16:21	20°る20'45	1°35'10	superior conj	15990 Dec 10 03:31	4° る 56'58	1°24'51
	15989 Dec 30 00:11	0° ≈		minimum elong	15990 Dec 10 01:36	4° ට 46'18	1°25'26
evening rise	15990 Jan 01 10:43	5° ≈ 19'22		evening rise	15990 Dec 16 20:29	19° ප 45'51	
desc. node	15990 Jan 13 22:55	29° ≈ 29'39		C	15990 Dec 21 17:58	0° ≈	
	15990 Jan 14 06:09	0° ∀		desc. node	15990 Dec 31 19:45	17° ≈ 54'41	
evening max el	15990 Jan 30 08:11	21° ¥ 18′34	26°22'13		15991 Jan 10 02:28	0° ∀	
retrograde	15990 Feb 13 07:42	28° ¥ 26′18		evening max el	15991 Jan 11 22:59	1° ¥ 51'52	24°57'22
evening set	15990 Feb 19 14:51	26°) 50′53		retrograde	15991 Jan 25 17:55	8°) 46′07	
min. Earth dist.	15990 Feb 23 21:30	24°) 13′25	0.58158 AU	evening set	15991 Jan 31 06:04	7°) € 38′26	
inferior conj	15990 Feb 27 00:20	21° ¥ 55'59	-3°33'15	min. Earth dist.	15991 Feb 05 11:09	4°) 52'55	0.56231 AU
minimum elong	15990 Feb 27 08:24	21°) (41'08	3°30'16	inferior conj	15991 Feb 07 23:45	3°) 16′04	-4°57'59
morning rise	15990 Mar 07 05:15	17° ¥ 28′07		minimum elong	15991 Feb 08 09:01	3° ₩ 01'13	4°55'18
direct	15990 Mar 09 04:26	17° ∺ 15′04			15991 Feb 13 20:47	30° ₹ ≈	
asc. node	15990 Mar 10 10:33	17° ¥ 20′35		morning rise	15991 Feb 16 14:28	29° ≈ 09'30	
morning max el	15990 Mar 17 10:18	21° ¥ 19′03	18°30'27	direct	15991 Feb 18 17:52	28° ≈ 56'40	
	15990 Mar 24 01:20	0° Y			15991 Feb 23 08:23	0° ∀	
morning set	15990 Apr 02 07:45	16° Ƴ 45'07		asc. node	15991 Feb 25 07:55	1° ∺ 07'14	
	15990 Apr 09 06:17	9° 8		morning max el	15991 Feb 28 09:26	3° ¥ 38′23	19°24'20
					15991 Mar 16 19:18	0 ° Υ	
superior conj	15990 Apr 11 10:21	4° 8 02'27	0°04'54	morning set	15991 Mar 17 09:31	1° Ƴ 10'54	
minimum elong	15990 Apr 11 10:40	4° 8 03'58	0°04'28				
behind sun begin	15990 Apr 11 03:48	3° 8 32'09		superior conj	15991 Mar 25 13:22	17° Y 25′02	0°35'58
behind sun end	15990 Apr 11 17:33	4° 8 35'41		minimum elong	15991 Mar 25 15:22	17° Ƴ 34'50	0°35'28
desc. node	15990 Apr 12 00:22	5° 8 07'00		desc. node	15991 Mar 29 21:00	25° Ƴ 39'07	
max. Earth dist.	15990 Apr 18 21:20	17° 8 21'52	1.40421 AU	max. Earth dist.	15991 Apr 01 03:17	29° Ƴ 49'18	1.38121 AU
evening rise	15990 Apr 23 02:30	24° 8 29'56			15991 Apr 01 05:38	$_{0\circ}$ 8	
	15990 Apr 26 11:13	Π $^{\circ}0$		evening rise	15991 Apr 04 20:07	6° 8 25'35	
	15990 May 16 19:58	0 \circ \mathfrak{S}			15991 Apr 19 09:55	$\Pi^{\circ}0$	
evening max el	15990 May 27 15:11	12° 5 548'02	23°36'40	evening max el	15991 May 10 04:32	26° Ⅱ 42'27	24°56'24
asc. node	15990 Jun 06 08:14	19° 5 03'19			15991 May 13 20:54	0ංම	
retrograde	15990 Jun 07 10:23	19° © 08'25		retrograde	15991 May 22 01:53	3° 5 38'17	
evening set	15990 Jun 12 17:01	16° © 53'37		asc. node	15991 May 24 05:18	3°9519'02	
min. Earth dist.	15990 Jun 17 11:05	11° © 18'25	0.68981 AU	evening set	15991 May 27 19:52	1° © 12'44	
inferior conj	15990 Jun 18 02:04	10° 5 27'01	2°51'12		15991 May 29 02:28	30°RⅡ	
minimum elong	15990 Jun 18 00:31	10° © 32'20	2°50'10	min. Earth dist.	15991 Jun 01 05:44	26° Ⅱ 14'31	0.68339 AU
morning rise	15990 Jun 23 08:01	4° ॐ 21'25		inferior conj	15991 Jun 02 09:42	24° Ⅱ 42′08	2°26'43
direct	15990 Jun 27 12:36	2° © 42'43		minimum elong	15991 Jun 02 07:38	24° Ⅱ 48'59	2°25'27
morning max el	15990 Jul 05 14:54	7° © 18'42	20°34'31	morning rise	15991 Jun 07 19:41	18° Ⅱ 45'57	
desc. node	15990 Jul 09 00:16	11° © 01'30		direct	15991 Jun 11 12:41	17° Ⅱ 27'00	
	15990 Jul 22 21:09	$0^{\circ}\Omega$		morning max el	15991 Jun 18 17:09	21° Ⅱ 24'21	19°28'24
morning set	15990 Aug 03 19:00	17° Ω 58'47		desc. node	15991 Jun 25 21:23	0°503'26	
	15990 Aug 11 10:46	0° m			15991 Jun 25 20:22	0ංම	
max. Earth dist.	15990 Aug 12 12:14	1°Mp41'54	1.43855 AU	greatest brilliancy	15991 Jul 01 09:05	7° © 52'17	-0.7m
				morning set	15991 Jul 13 22:55	26° © 52'32	
superior conj	15990 Aug 18 23:17	12° Mp 14'18	-1°44'24		15991 Jul 15 23:41	$0^{\circ}\Omega$	
minimum elong	15990 Aug 19 07:06	12°M 46'47	1°43'55	max. Earth dist.	15991 Jul 26 03:18	15° Ω 47'18	1.45242 AU
	15990 Aug 29 09:21	0∘ ⊽					
evening rise	15990 Aug 31 08:57	3° ≏ 27'50		superior conj	15991 Jul 30 03:30	22° Ω 07'43	-2°07'47
asc. node	15990 Sep 02 08:49	6° ≏ 57'12		minimum elong	15991 Jul 30 09:09	22° Ω 30′15	2°08'04
evening max el	15990 Sep 17 02:03	29° ჲ 19'31	18°01'17		15991 Aug 04 01:13	0° m ∕	
	15990 Sep 17 19:11	0°M		evening rise	15991 Aug 13 07:54	15° m 14'30	
retrograde	15990 Sep 23 15:33	2°M43'34		asc. node	15991 Aug 20 05:28	26° Mp 40'00	
evening set	15990 Sep 26 02:46	2°M14'12			15991 Aug 22 07:02	0∘ ऌ	
	15990 Sep 29 16:15	30° ₹ Ω		evening max el	15991 Aug 31 16:54	12° ≏ 50'09	18°10'24
inferior conj	15990 Oct 02 18:00	27° ≏ 07'41	0°39'31	retrograde	15991 Sep 07 01:34	16° ≙ 11'24	
minimum elong	15990 Oct 02 19:09	27° ≏ 04'46	0°39'21	evening set	15991 Sep 09 21:25	15° ≏ 28'38	
desc. node	15990 Oct 04 21:21	24° ≏ 58'52		inferior conj	15991 Sep 15 23:22	10° ≏ 05'18	1°40'41
min. Earth dist.	15990 Oct 05 17:45	24° ≙ 09'15	0.61617 AU	minimum elong	15991 Sep 16 01:36	9° ჲ 59'01	1°40'02
morning rise	15990 Oct 09 08:47	21° ≏ 07'27		min. Earth dist.	15991 Sep 18 11:52	7° £ 16'21	0.63817 AU
direct	15990 Oct 16 01:05	18° ≏ 49'08		desc. node	15991 Sep 21 18:43	4° ഫ 06'28	
morning max el	15990 Oct 30 05:11	26° ≏ 45'07	27°59'12	morning rise	15991 Sep 22 03:52	3° ≏ 48'18	
	15990 Nov 02 06:56	0° M		direct	15991 Sep 28 18:33	1° ≙ 15'48	
	15990 Nov 22 20:09	0° ∡		morning max el	15991 Oct 12 14:43	9° ≙ 14'49	27°40'30
asc. node	15990 Nov 29 09:48	12° ∡ 16′20			15991 Oct 28 19:55	0° M	
morning set	15990 Dec 02 19:32	19° ∡ ′08'55			15991 Nov 15 03:43	0° ∡ ¹	
	15990 Dec 07 21:37	್ರಂ		asc. node	15991 Nov 16 06:42	2° ∡ 13'17	
max. Earth dist.	15990 Dec 08 09:00	1° る 02'23	1.31400 AU	morning set	15991 Nov 16 12:52	2° ∡ ¹44'01	

max. Earth dist.	15991 Nov 21 07:52		1.32349 AU	max. Earth dist.	15992 Nov 02 21:27 15992 Nov 05 22:13	23°M48'35 0°⊀	1.33864 AU
superior conj	15991 Nov 24 10:15	19° ⋌ 14'40	1°09'07		1500031 05 11 01	20 312141	00.4514.5
minimum elong	15991 Nov 24 07:55	19° ∡ '01'59	1°09'32	superior conj	15992 Nov 07 11:21	3° ∡ 13'41	0°47'17
	15991 Nov 29 08:29	0°る		minimum elong	15992 Nov 07 09:12	3° ₹ 02'20	0°47'33
evening rise	15991 Dec 01 07:18	4° る 13'38		evening rise	15992 Nov 14 17:18	18°♂37'42 0°る	
desc. node	15991 Dec 14 22:32 15991 Dec 18 16:39	0° ≈ 5° ≈ 22'59		desc. node	15992 Nov 20 06:57 15992 Dec 04 13:40	0°る 21° る 33'51	
evening max el	15991 Dec 18 16.39 15991 Dec 24 08:39	3 ≈22 39 11°≈52'23	23°15'43	evening max el	15992 Dec 04 13:40 15992 Dec 04 21:46	21° る 54'00	21°35'02
•	15991 Dec 24 08.39 15992 Jan 06 15:01	11 ≈32 23 18°≈26'19	25 13 43	retrograde	15992 Dec 04 21.46 15992 Dec 17 01:42	21 3 3400 27° る 54'46	21 33 02
retrograde evening set	15992 Jan 10 22:59	18 ≈20 19 17°≈45'40		evening set	15992 Dec 20 03:03	27° る 33'34	
min. Earth dist.	15992 Jan 17 19:10	14°≈33'17	0.54890 AU	inferior conj	15992 Dec 28 19:04	27 ろ 33 3 4 23° ろ 43'23	-5°54'43
inferior conj	15992 Jan 19 03:24	13° ≈ 46'46		minimum elong	15992 Dec 28 14:23	23° る 49'56	5°53'34
minimum elong	15992 Jan 19 08:00	13° ≈ 40'09	5°52'29	min. Earth dist.	15992 Dec 29 00:32	23° る 35'44	0.54389 AU
morning rise	15992 Jan 27 18:23	9°≈55'26	3 32 2)	morning rise	15993 Jan 06 02:16	19° る 54'49	0.5 1507 110
direct	15992 Jan 30 12:34	9° ≈ 37'16		direct	15993 Jan 09 20:56	19° る 23'44	
morning max el	15992 Feb 10 18:35	15° ≈ 03'23	20°41'22	morning max el	15993 Jan 22 12:53	25° る 32'21	22°19'39
asc. node	15992 Feb 12 05:15	16° ≈ 32'12		. 8	15993 Jan 26 14:42	0° ≈	
	15992 Feb 21 13:41	0°) €		asc. node	15993 Jan 29 02:34	3° ≈ 16'39	
morning set	15992 Feb 29 17:02	15°) 49'41			15993 Feb 12 21:30	0° ∀	
	15992 Mar 07 13:04	0° Y		morning set	15993 Feb 13 03:49	0°) 33′20	
superior conj	15992 Mar 08 04:43	1° Y 19'57	1°00'54	superior conj	15993 Feb 20 04:51	15°) 36′25	1°19'23
minimum elong	15992 Mar 08 07:16	1° Y 32'57	1°00'34	minimum elong	15993 Feb 20 07:07	15° ¥ 48′29	1°19'23
max. Earth dist.	15992 Mar 13 11:03	11° Y '48'00	1.35922 AU	max. Earth dist.	15993 Feb 24 01:06	23°) € 37′24	1.34015 AU
desc. node	15992 Mar 15 17:38	16° Y ′08′06			15993 Feb 27 05:19	0° Y	
evening rise	15992 Mar 17 08:04	19° Ƴ 06'56		evening rise	15993 Feb 28 10:40	2° Y 23'09	
	15992 Mar 23 11:25	0° 8		desc. node	15993 Mar 02 14:16	6° Y 29′15	
	15992 Apr 12 12:22	Π °0			15993 Mar 16 09:49	0°8	
evening max el	15992 Apr 21 18:08	10° Ⅲ 34′10	26°07'12	evening max el	15993 Apr 04 08:00	24° 8 14'46	27°01'33
retrograde	15992 May 04 12:38	17° Ⅲ 53'14			15993 Apr 11 17:45	Π °0	
asc. node	15992 May 10 02:28	15° Ⅲ 50'31		retrograde	15993 Apr 17 17:29	1° ∏ 44'43	
evening set	15992 May 10 17:03	15° Ⅱ 21'43			15993 Apr 23 04:21	30°₽ 8	
min. Earth dist.	15992 May 14 20:21	10° Ⅱ 59'15	0.67240 AU	evening set	15993 Apr 24 06:34	29° 8 13'03	
inferior conj	15992 May 16 13:17	8°Ⅲ51'58	1°50'56	asc. node	15993 Apr 26 23:42	26° 8 43'08	0.65712 AII
minimum elong	15992 May 16 11:08	8°Ⅲ58'39 3°Ⅲ06'27	1°49'35	min. Earth dist.	15993 Apr 28 04:49 15993 Apr 30 10:29	25° 8 24'17 22° 8 50'28	0.65713 AU 1°02'47
morning rise direct	15992 May 22 06:01 15992 May 25 12:19	2° Д 05'56		inferior conj	15993 Apr 30 10:29 15993 Apr 30 08:56	22° 8 54'56	1°02'47 1°01'40
morning max el	15992 Jun 01 02:20	2 щоз зо 5°Щ36'57	10027151	minimum elong morning rise	15993 Apr 30 08.36 15993 May 06 12:47	17° 8 17'28	1 01 40
desc. node	15992 Jun 11 18:25	19° Ⅱ 36'48	10 3/34	direct	15993 May 09 12.47 15993 May 09 09:22	16° 8 33'10	
desc. node	15992 Jun 18 12:30	0°95		morning max el	15993 May 15 16:52	19° 8 50'21	18°04'14
morning set	15992 Jun 22 14:34	6°523'00		morning max cr	15993 May 23 13:39	0°П	10 04 14
morning sec	15992 Jul 07 17:46	0° Ω		desc. node	15993 May 29 15:23	9° П 32'53	
max. Earth dist.	15992 Jul 07 22:11	0° Ω 17'11	1.45936 AU	morning set	15993 Jun 03 07:41	17° ∏ 07'36	
				5 5 5	15993 Jun 11 07:28	0°ತಾ	
superior conj	15992 Jul 08 15:20	1° Ω 24'05	-2°13'51				
minimum elong	15992 Jul 08 13:49	1° Ω 18′10	2°14'33	superior conj	15993 Jun 18 01:56	10°5643'03	-1°59'53
evening rise	15992 Jul 24 06:06	25° Ω 58′03		minimum elong	15993 Jun 17 18:11	10° © 12'36	2°00'09
	15992 Jul 26 18:59	0° m)		max. Earth dist.	15993 Jun 20 18:46	14° © 57'00	1.45877 AU
greatest brilliancy	15992 Jul 31 09:27	7° m 17'35	-0.9m		15993 Jun 30 11:25	0 \circ Ω	
asc. node	15992 Aug 06 02:09	16°Mp03'39		evening rise	15993 Jul 04 05:06	5° Ω 45'55	
evening max el	15992 Aug 14 06:02	26° Mp 34'53	18°37'09	greatest brilliancy	15993 Jul 16 17:06	24° Ω 48'29	-0.7m
	15992 Aug 19 17:15	0∘ ⊽			15993 Jul 20 06:42	0° ™	
retrograde	15992 Aug 20 18:46	0° ≏ 06'17		asc. node	15993 Jul 23 22:55	5° m 01'14	
	15992 Aug 21 20:02	30°R, M)		evening max el	15993 Jul 28 14:58	10° m/26'54	19°20'37
evening set	15992 Aug 23 23:53	29° Mp 07'38	2022145	retrograde	15993 Aug 04 16:06	14° mp 21'23	
inferior conj	15992 Aug 29 16:02	23°M 29'25	2°23'45	evening set	15993 Aug 08 07:03	13° Mp 05'16	2051110
minimum elong min. Earth dist.	15992 Aug 29 18:16 15992 Aug 31 14:58	23° m/22'33 21° m/05'48	2°23'03 0.65747 AU	inferior conj minimum elong	15993 Aug 13 16:44 15993 Aug 13 18:22	7° Mp 13'40 7° Mp 08'20	2°51'18 2°50'40
	_		0.03747 AU	min. Earth dist.	-		0.67287 AU
morning rise desc. node	15992 Sep 04 11:31 15992 Sep 07 16:06	17° Mp 04'30 15° Mp 04'48		min. Earth dist.	15993 Aug 15 01:32 15993 Aug 19 05:04	5° Mp 26'18 0° Mp 47'12	0.07207 AU
direct	15992 Sep 07 10:00 15992 Sep 10 20:05	13 m/04 48 14° m/26'52		morning rise	15993 Aug 19 03:04 15993 Aug 20 04:31	0 11/4712 30°RΩ	
morning max el	15992 Sep 24 01:55	22° m) 15'22	26°50'30	direct	15993 Aug 25 04:12	28° Ω 13'03	
mun or	15992 Sep 30 21:31	ე∘ <u>ი</u>	20 0000	desc. node	15993 Aug 25 13:29	28° Ω 13'38	
	15992 Oct 21 01:46	0° m .			15993 Aug 30 17:58	0° my	
morning set	15992 Oct 29 19:23	15°M47'49		morning max el	15993 Sep 06 13:10	5° Mp 36'07	25°38'03
asc. node	15992 Nov 02 03:31	22°M18'56		5	15993 Sep 25 09:54	0∘ ⊽	
		_			•		

morning set	15993 Oct 12 11:35	28° £ 12'56		morning max el	15994 Aug 20 00:09	19° Ω 08'27	24°12'33
morning sec	15993 Oct 12 11:01	0°M		moming man er	15994 Aug 29 05:15	0° m)	2. 1233
max. Earth dist.	15993 Oct 16 02:00	4°M53'39	1.35868 AU		15994 Sep 18 12:31	0∘ <mark>ರ</mark>	
asc. node	15993 Oct 20 00:17	12°M29'28		morning set	15994 Sep 24 09:18	9° Ω 49'16	
				max. Earth dist.	15994 Sep 28 01:15	16° ≏ 14'44	1.38192 AU
superior conj	15993 Oct 22 04:07	16°M47'38	0°19'32		1		
minimum elong	15993 Oct 22 02:58	16°M41'52	0°19'49	superior conj	15994 Oct 05 09:00	29° ≏ 47'23	-0°13'25
C	15993 Oct 28 14:48	0° ∡ ¹		minimum elong	15994 Oct 05 09:55	29° ≏ 51'43	0°12'57
evening rise	15993 Oct 30 00:29	2° ₹ 53'35		behind sun begin	15994 Oct 05 05:45	29° ≙ 31'46	
	15993 Nov 14 15:59	ರ°0		behind sun end	15994 Oct 05 14:05	0° M 11'41	
evening max el	15993 Nov 16 22:50	2° る 30'53	20°09'45		15994 Oct 05 11:39	0° M	
desc. node	15993 Nov 21 10:46	6° る 03'36		asc. node	15994 Oct 06 21:00	2°M40'33	
retrograde	15993 Nov 27 13:26	7° る 47'58		evening rise	15994 Oct 14 02:19	16°M54'17	
evening set	15993 Nov 29 17:40	7° る 35'39			15994 Oct 20 22:31	0° ∡ ¹	
inferior conj	15993 Dec 08 12:54	3° る 38'43	-4°56'08	evening max el	15994 Oct 30 14:21	13° ∡ 57′25	19°06'17
minimum elong	15993 Dec 08 02:59	3° る 53'32	4°52'50	desc. node	15994 Nov 08 07:57	18° ∡ °29′27	
min. Earth dist.	15993 Dec 10 06:35	2° る 36'30	0.54832 AU	retrograde	15994 Nov 08 14:49	18° ∡ ¹29'43	
	15993 Dec 15 07:50	30°₹ ҂ 7		evening set	15994 Nov 10 12:04	18° ≯ 18'38	
morning rise	15993 Dec 16 11:31	29° х 34′10		inferior conj	15994 Nov 18 22:08	14° ₹ 04'54	-3°19'56
direct	15993 Dec 21 07:28	28° х 43′36		minimum elong	15994 Nov 18 13:59	14° ∡ °18′50	3°16'15
	15993 Dec 27 03:17	0°ප		min. Earth dist.	15994 Nov 21 16:55	12° ₰ 11'08	0.56128 AU
morning max el	15994 Jan 03 22:09	5° る 26'53	24°09'28	morning rise	15994 Nov 26 13:17	9° х 27′40	
asc. node	15994 Jan 15 23:49	21° る 02'52		direct	15994 Dec 02 05:42	8° ∡ 12'36	
	15994 Jan 21 02:49	0° ≈		morning max el	15994 Dec 16 08:13	15° ∡ °24′10	25°52'57
morning set	15994 Jan 28 15:49	15° ≈ 16'19			15994 Dec 28 01:12	0°ප	
				asc. node	15995 Jan 02 21:01	9° る 35'26	
superior conj	15994 Feb 04 10:58	0°) €06'53	1°31'30	morning set	15995 Jan 13 03:12	29° る 53'25	
minimum elong	15994 Feb 04 12:29	0°) 15′08	1°31'50		15995 Jan 13 04:26	0° ≈	
	15994 Feb 04 09:42	0° ∀					
max. Earth dist.	15994 Feb 06 22:53	5° ∺ 31'15	1.32523 AU	superior conj	15995 Jan 19 20:44	14° ≈ 44'43	1°37'25
evening rise	15994 Feb 12 00:35	16° ∺ 05'50		minimum elong	15995 Jan 19 21:14	14° ≈ 47'32	1°38'01
desc. node	15994 Feb 17 10:56	26° ∺ 38′06		max. Earth dist.	15995 Jan 21 02:57	17° ≈ 32'19	1.31514 AU
	15994 Feb 19 07:01	0° Υ		evening rise	15995 Jan 26 22:58	0° 米 08′02	
	15994 Mar 11 00:25	0°8			15995 Jan 26 21:26	0° ∀	
evening max el	15994 Mar 17 20:47	7° 8 32'46	27°32'00	desc. node	15995 Feb 04 07:39	16° ¥ 29′09	
retrograde	15994 Mar 31 15:31	15° 8 03'55			15995 Feb 12 08:15	0° Υ	
evening set	15994 Apr 07 10:10	12° 8 38'41		evening max el	15995 Feb 28 06:17	20° Y 15′25	27°32'10
min. Earth dist.	15994 Apr 11 05:04	9° 8 20'06	0.63822 AU	retrograde	15995 Mar 14 05:48	27° Y ′41′19	
inferior conj	15994 Apr 13 22:31	6° 8 30'50	0°01'12	evening set	15995 Mar 21 01:16	25° Y ′29'56	
minimum elong	15994 Apr 13 22:29	6° 8 30'54		min. Earth dist.	15995 Mar 24 19:44	22° Y 35′18	0.61664 AU
transit middle	15994 Apr 13 22:29	6° 8 30'54	0°00'48	inferior conj	15995 Mar 27 22:08	19° ℃ 44'50	
transit begin	15994 Apr 13 19:22	6° 8 39'03		minimum elong	15995 Mar 28 00:45	19° Ƴ 38'49	1°13'13
transit end	15994 Apr 14 01:37	6° 8 22'46		asc. node	15995 Mar 31 18:20	16° ℃ 31'09	
asc. node	15994 Apr 13 21:00	6° 8 34'46		morning rise	15995 Apr 04 03:27	14° ℃ 44'31	
morning rise	15994 Apr 20 13:11	1° 8 12'47		direct	15995 Apr 06 08:06	14° Y 23′23	15040112
direct	15994 Apr 23 01:08	0° 8 41'43	17047140	morning max el	15995 Apr 13 03:31	17° Y 48'58	17°49'13
morning max el	15994 Apr 29 10:17	3° と 57'16 29° と 08'29	17°47'49		15995 Apr 21 22:21	0°8	
morning set desc. node	15994 May 16 03:38 15994 May 16 12:16	29° 8 45'08		morning set desc. node	15995 Apr 28 21:36	12° 8 11'00 20° 8 08'40	
desc. node	•			desc. node	15995 May 03 09:05		
	15994 May 16 15:47	Π °0			15995 May 09 01:11	Π $^{\circ}0$	
superior conj	15994 May 29 03:18	20° ∏ 45'41	-1°30'17	superior conj	15995 May 10 03:38	1° Ⅱ 52'35	-0°53'10
minimum elong	15994 May 28 19:09	20° I I12'41		minimum elong	15995 May 10 03:38 15995 May 09 22:46	1° Д 32'56	
max. Earth dist.	15994 Jun 03 14:21	29° I I30'03	1.45080 AU	max. Earth dist.	15995 May 17 06:14	13° Ⅱ 31'30	1.43632 AU
max. Earm dist.	15994 Jun 03 21:56	29 π 3003	1.43000 AU	evening rise	15995 May 17 00:14 15995 May 24 07:32	24° ∏ 51'40	1.43032 AU
evening rise	15994 Jun 13 15:58	15° 5 09'10		evening rise	15995 May 27 15:27	0°95	
evening Hee	15994 Jun 23 12:20	0°Ω			15995 Jun 17 13:22	0°€ 0°€	
asc. node	15994 Jul 10 19:44	23° Ω 23'02		evening max el	15995 Jun 24 15:06	8° Ω 13'57	21°30'26
evening max el	15994 Jul 11 18:03	$23^{\circ} \Omega 23^{\circ} \Omega 20^{\circ} 28$	20°19'18	asc. node	15995 Jun 27 16:38	10° Ω 57'24	21 30 20
retrograde	15994 Jul 19 15:07	24 8ℓ 20 28 28° Ω 49'45	20 17 10	retrograde	15995 Jul 03 13:53	$10^{\circ} \Omega 3724$ $13^{\circ} \Omega 26'07$	
evening set	15994 Jul 23 16:29	28 € (49 43 27° Ω 15'47		evening set	15995 Jul 08 02:14	$13^{\circ} \Omega 2007$ $11^{\circ} \Omega 34'57$	
inferior conj	15994 Jul 28 22:44	21°Ω12'04	3°05'38	inferior conj	15995 Jul 13 07:45	5° Ω 20'39	3°08'23
minimum elong	15994 Jul 28 23:28	21° Ω 09'32	3°05'02	minimum elong	15995 Jul 13 07:32	5° Ω 21'25	3°07'42
min. Earth dist.	15994 Jul 29 17:40	20°Ω07'16	0.68380 AU	min. Earth dist.	15995 Jul 13 13:20	5° Ω 01'10	0.68999 AU
morning rise	15994 Aug 03 06:08	14° Ω 48'18	0.00500710	Zartii dist.	15995 Jul 17 12:31	30°RS	5.55777 110
direct	15994 Aug 08 17:55	12° Ω 24'32		morning rise	15995 Jul 18 12:36	29°502'23	
desc. node	15994 Aug 12 10:52	$13^{\circ}\Omega 18'40$		direct	15995 Jul 23 12:15	26°953'53	
	1100 12 10.02	0010 10			2,,2,50. 25 12.15		

11-	15005 1-1 20 00.11	20065(11)			15006 I 26 16:27	100620146	2050125
desc. node	15995 Jul 30 08:11	29° 9 56'16		minimum elong	15996 Jun 26 16:37	19°538'46	2°59'35
	15995 Jul 30 10:03	0°Ω	22042117	min. Earth dist.	15996 Jun 26 10:17	20°500'45	0.69130 AU
morning max el	15995 Aug 02 12:09	2° Ω 48'45	22°43′16	morning rise	15996 Jul 01 22:32	13°524'04	
	15995 Aug 23 05:28	0° Mp		direct	15996 Jul 06 10:00	11°933'55	21010120
morning set	15995 Sep 05 08:33	20° m/28'03	1 40500 411	morning max el	15996 Jul 15 03:47	16°937'17	21°18'30
max. Earth dist.	15995 Sep 10 00:58	28° Mp 16'00	1.40590 AU	desc. node	15996 Jul 16 05:25	17° © 43'19	
	15995 Sep 11 01:24	0∘ ⊽			15996 Jul 26 01:10	0° N	
				morning set	15996 Aug 15 08:02	0° Mp 06'38	
superior conj	15995 Sep 17 21:58	12° ≙ 03'45			15996 Aug 15 06:21	0° ™	
minimum elong	15995 Sep 18 01:52	12° ≏ 21'24	0°48'59	max. Earth dist.	15996 Aug 22 06:05	11° m) 10'38	1.42785 AU
asc. node	15995 Sep 23 17:42	22° ≙ 48'47					
evening rise	15995 Sep 27 19:40	0° M ₊31'56		superior conj	15996 Aug 29 14:37	23° m 27'28	
	15995 Sep 27 12:56	0°M₊		minimum elong	15996 Aug 29 21:33	23° m 57'07	1°25'08
evening max el	15995 Oct 13 17:46	26°M11'22	18°25'03		15996 Sep 02 09:23	0∘ ⊽	
	15995 Oct 20 03:27	0° ∡ ¹		asc. node	15996 Sep 09 14:22	12° ≏ 50'31	
retrograde	15995 Oct 21 11:09	0° ≯ 06'49		evening rise	15996 Sep 10 00:31	13° ≏ 36'18	
	15995 Oct 22 19:18	30°RM			15996 Sep 19 10:10	0° M	
evening set	15995 Oct 23 11:02	29°M51'50		evening max el	15996 Sep 26 04:48	9° M 03'10	18°04'30
desc. node	15995 Oct 26 05:11	28°M46'12		retrograde	15996 Oct 03 01:21	12° M 34'31	
inferior conj	15995 Oct 31 04:47	25°M17'20	-1°36'17	evening set	15996 Oct 05 08:03	12°M11'23	
minimum elong	15995 Oct 31 01:03	25°M24'48	1°34'10	inferior conj	15996 Oct 12 08:23	7° IL 16'05	-0°04'41
min. Earth dist.	15995 Nov 03 10:24	22°M43'17	0.58049 AU	minimum elong	15996 Oct 12 08:15	7° M 16′25	0°04'13
morning rise	15995 Nov 07 11:34	20°Mo3'03		transit middle	15996 Oct 12 08:15	7° M 16'25	0°04'13
direct	15995 Nov 13 18:36	18°M20'49		transit begin	15996 Oct 12 05:03	7° M 23'50	
morning max el	15995 Nov 28 01:14	25°M54'54	27°11'18	transit end	15996 Oct 12 11:27	7° M 08'59	
	15995 Dec 01 21:36	0° ∡ ¹		desc. node	15996 Oct 12 02:28	7° M 29'46	
asc. node	15995 Dec 20 18:07	28° ∡ ¹42'18		min. Earth dist.	15996 Oct 15 12:44	4°ML20'36	0.60293 AU
	15995 Dec 21 10:33	ರ°0		morning rise	15996 Oct 19 05:15	1° M 30'17	
morning set	15995 Dec 28 12:08	14° る 19'26			15996 Oct 22 06:40	30° Ŗ Ω	
-				direct	15996 Oct 25 20:14	29° ഫ 23'17	
superior conj	15996 Jan 04 08:05	29° る 23'47	1°37'17		15996 Oct 29 12:47	0°M₊	
minimum elong	15996 Jan 04 07:31	29° ට 20'41	1°38'00	morning max el	15996 Nov 09 02:10	7° M 13'07	27°53'07
max. Earth dist.	15996 Jan 04 10:13	29° ට 35'48	1.31035 AU	Č	15996 Nov 26 08:51	0° ∡ ¹	
	15996 Jan 04 14:33	0° ≈		asc. node	15996 Dec 06 15:08	18° √ 14'11	
evening rise	15996 Jan 11 03:22	14° ≈ 23'36		morning set	15996 Dec 11 16:46	28° х 29'56	
8 21	15996 Jan 18 21:51	0° \		3	15996 Dec 12 09:50	0°ಕ	
desc. node	15996 Jan 22 04:24	5°) 54'43		max. Earth dist.	15996 Dec 17 17:18	11° る 34'48	1.31105 AU
	15996 Feb 08 05:51	0°Υ					
evening max el	15996 Feb 10 10:01	2° Υ 10'55	26°57'46	superior conj	15996 Dec 18 19:09	13° る 58'55	1°31'09
retrograde	15996 Feb 24 10:55	9° Υ 26'42	20 37 10	minimum elong	15996 Dec 18 17:40		1°31'48
evening set	15996 Mar 02 00:34	7° Υ 36'38		evening rise	15996 Dec 25 11:44	28° る 47'53	1 21 10
min. Earth dist.	15996 Mar 06 00:12	4°Υ56'18	0.59406 AU	evening rise	15996 Dec 26 01:08	0° ≈	
inferior conj	15996 Mar 09 05:32	2° Υ 21'43		desc. node	15997 Jan 08 01:11	24° ≈ 45'33	
minimum elong	15996 Mar 09 11:39	2° Υ '09'25		desc. node	15997 Jan 11 10:06	0° ∀	
minimum crong	15996 Mar 12 08:22	30°R) €	2 30 32	evening max el	15997 Jan 22 05:57	13°) 14'15	25°49'20
morning rise	15996 Mar 17 02:19	27°) 41'32		retrograde	15997 Feb 05 04:28	20° X 16'26	23 47 20
asc. node	15996 Mar 17 15:42	27°) 34'27		evening set	15997 Feb 11 04:26	18°) 52'56	
direct	15996 Mar 19 02:06	27° H 26'42		min. Earth dist.	15997 Feb 15 18:58		0.57287 AU
direct	15996 Mar 25 07:59	0°Υ		inferior conj	15997 Feb 18 17:15	14°) 12'16	
morning max el	15996 Mar 26 16:54	1° Υ 13'51	18°09'30	minimum elong	15997 Feb 19 02:19	13° ¥ 56'32	
morning set	15996 Apr 11 07:35	25° Υ 56'41	18 09 30	morning rise	15997 Feb 27 03:12	9° ¥ 53′21	4 07 30
morning set	15996 Apr 13 11:35	0° 8		direct	15997 Mar 01 03:01	9° ∺ 40′58	
daga mada	•	10° 8 38'24				9 X 40 38 10° X 19'30	
desc. node	15996 Apr 19 05:50	10 03624		asc. node	15997 Mar 04 13:01		10050127
	15006 A 21 02:42	1.40 00026	0015107	morning max el	15997 Mar 09 22:24	14°) 00′20 0° Υ	18°50'27
superior conj	15996 Apr 21 02:42	14° 8 00'36		. ,	15997 Mar 20 20:30		
minimum elong	15996 Apr 21 01:26	13° 8 54'56	0°15′41	morning set	15997 Mar 26 04:43	10° Ƴ 11'14	
behind sun begin	15996 Apr 21 00:02	13° 8 48'40			15007 4 02 20 46	2600050112	0010146
behind sun end	15996 Apr 21 02:50	14° 8 01'11	1 41/07 433	superior conj	15997 Apr 03 20:46	26°Υ′59'12	
max. Earth dist.	15996 Apr 28 17:08	27° 8 12'01	1.41687 AU	minimum elong	15997 Apr 03 21:58	27° Y ′04'52	0°18'17
	15996 Apr 30 09:23	0°Ⅱ 5°Ⅱ			15997 Apr 05 11:19	0° 8	
evening rise	15996 May 03 16:10	5° Ⅱ 22'16		desc. node	15997 Apr 06 02:32	1° 8 10'41	
_	15996 May 19 20:34	0°9		max. Earth dist.	15997 Apr 11 00:19	10° 8 03'06	1.39454 AU
evening max el	15996 Jun 06 07:32	22° © 07'44	22°49'43	evening rise	15997 Apr 14 22:03	16° 8 48'26	
asc. node	15996 Jun 13 13:35	27° © 28'35			15997 Apr 23 00:13	0°П	
retrograde	15996 Jun 16 10:45	28° © 04'26			15997 May 14 09:44	0° ©	
evening set	15996 Jun 21 10:34	25°957'45		evening max el	15997 May 19 21:38	6° © 02'53	24°11'14
inferior conj	15996 Jun 26 17:43	19° © 34'53	3°00'28	retrograde	15997 May 31 04:24	12° © 39'07	

asc. node	15997 May 31 10:36	12° © 38'50		ratrograda	15998 May 14 17:51	27° Ⅱ 03'48	
evening set	15997 Jun 05 15:53	12 \$38 30 10°\$19'31		retrograde asc. node	15998 May 18 07:42	26° I 11'19	
min. Earth dist.	15997 Jun 10 06:21	4°959'59	0.68772 AU	evening set	15998 May 20 16:34	24° I I35'03	
inferior conj			2°42'07	C	15998 May 24 23:29	19° ∏ 52′25	0.67932 AU
,	15997 Jun 11 02:46	3°950'53		min. Earth dist.			
minimum elong	15997 Jun 11 00:57	3°957'01	2°40'59	inferior conj	15998 May 26 08:58	18° Ⅱ 04'26	2°12'57
	15997 Jun 14 03:15	30°RII		minimum elong	15998 May 26 06:48	18° Ⅱ 11'27	2°11'39
morning rise	15997 Jun 16 10:06	27° Ⅱ 48'59		morning rise	15998 May 31 21:29	12° Ⅱ 12'45	
direct	15997 Jun 20 09:44	26° Ⅱ 18'31		direct	15998 Jun 04 09:56	11° Ⅱ 01'45	
	15997 Jun 27 10:33	0°€		morning max el	15998 Jun 11 07:06	14° Ⅱ 45'51	19°04'56
morning max el	15997 Jun 28 01:44	0°936'27	20°04'29	desc. node	15998 Jun 19 23:43	25° Ⅱ 38'27	
desc. node	15997 Jul 03 02:36	6°521'53			15998 Jun 22 23:32	0° ©	
	15997 Jul 19 15:35	0 ° Ω		greatest brilliancy	15998 Jun 24 06:35	1° © 55'38	-0.7m
morning set	15997 Jul 25 14:26	9° Ω 03'46		morning set	15998 Jul 04 21:08	18° © 07'35	
max. Earth dist.	15997 Aug 04 18:19	24° Ω 55'39	1.44528 AU		15998 Jul 12 13:16	0 ° Ω	
	15997 Aug 07 22:26	0° m ∕		max. Earth dist.	15998 Jul 18 12:00	9° Ω 16′07	1.45632 AU
superior conj	15997 Aug 10 07:55	3° m 52'33	1056'02	superior conj	15998 Jul 21 03:50	13° Ω 26'34	2012140
	•						
minimum elong	15997 Aug 10 15:31		1°55'51	minimum elong	15998 Jul 21 06:51	13° Ω 38′28	2-13-21
evening rise	15997 Aug 23 11:54	25° m 54'47			15998 Jul 31 13:14	0° Mp	
,	15997 Aug 25 21:12	0° ⊽		evening rise	15998 Aug 05 00:43	7° Mp 15'50	
asc. node	15997 Aug 27 11:01	2° ≏ 41'22		asc. node	15998 Aug 14 07:42	22° m 16'57	
evening max el	15997 Sep 09 19:18	22° ≏ 22'01	18°03'01		15998 Aug 19 11:19	0∘ 亚	
retrograde	15997 Sep 16 05:25	25° ≙ 42'56		evening max el	15998 Aug 24 09:47		18°19'36
evening set	15997 Sep 18 20:21	25° ≏ 08'04		retrograde	15998 Aug 30 19:04	9° ≏ 23'37	
inferior conj	15997 Sep 25 05:29	19° ≏ 54'02	1°07'50	evening set	15998 Sep 02 18:50	8° ≏ 34'14	
minimum elong	15997 Sep 25 07:16	19° ≏ 49'21	1°07'24	inferior conj	15998 Sep 08 16:09	3° ჲ 04'00	2°01'00
min. Earth dist.	15997 Sep 28 00:51	16° ≏ 57'41	0.62578 AU	minimum elong	15998 Sep 08 18:29	2° ♀ 57'10	2°00'19
desc. node	15997 Sep 28 23:49	16° 亞 01'18		min. Earth dist.	15998 Sep 10 22:53	0° ჲ 24'31	0.64680 AU
morning rise	15997 Oct 01 15:50	13° ≏ 45'50			15998 Sep 11 07:37	30°R, Mp	
direct	15997 Oct 08 08:13	11° ≏ 20'32		morning rise	15998 Sep 14 16:37	26° Mp 42'43	
morning max el	15997 Oct 22 09:17	19° ≙ 18′20	27°55'38	desc. node	15998 Sep 15 21:11	25° m 50'32	
	15997 Oct 31 12:06	0° M ₊		direct	15998 Sep 21 05:03	24° Mp 07'17	
	15997 Nov 19 07:25	0° ∡ ¹			15998 Oct 02 16:24	0∘ ಹ	
asc. node	15997 Nov 23 12:05	8° ∡ 03'15		morning max el	15998 Oct 04 19:59	2° ჲ 03'03	27°22'38
morning set	15997 Nov 25 14:54	12° ∡ 18'47			15998 Oct 25 17:43	0° M ₊	
max. Earth dist.	15997 Nov 30 20:16	23° х 19'24	1.31736 AU	morning set	15998 Nov 09 04:00	25° M 40′54	
				asc. node	15998 Nov 10 08:59	28°MJ04'14	
superior conj	15997 Dec 03 04:02	28° ∡ ¹23'53	1°18'57		15998 Nov 11 08:04	0° ∡ ¹	
minimum elong	15997 Dec 03 01:52	28° ≯ 12′00	1°19'27	max. Earth dist.	15998 Nov 13 15:40	4° ∡ ¹44'23	1.32933 AU
	15997 Dec 03 21:29	0°ප					
evening rise	15997 Dec 09 22:09	13° る 15'12		superior conj	15998 Nov 17 08:38	12° ∡ ³33'41	1°00'37
	15997 Dec 18 04:41	0°≈		minimum elong	15998 Nov 17 06:17	12° ∡ °21′05	1°00'56
desc. node	15997 Dec 25 22:03	12° ≈ 48′10		evening rise	15998 Nov 24 08:52	27° ∡ ¹41'37	
evening max el	15998 Jan 03 17:59	23° ≈ 30′21	24°15'12		15998 Nov 25 10:53	0°₹	
	15998 Jan 14 16:24	0° ∀		desc. node	15998 Dec 12 19:00	29° る 45'40	
retrograde	15998 Jan 17 08:30	0° ₩ 16'15			15998 Dec 12 23:47	0° ≈	
	15998 Jan 20 01:15	30° ₹ ≈		evening max el	15998 Dec 16 03:38	3° ≈ 25′02	22°31'36
evening set	15998 Jan 22 09:49	29° ≈ 20'32		retrograde	15998 Dec 29 00:18	9° ≈ 46'55	
min. Earth dist.	15998 Jan 28 05:40	26° ≈ 26′10	0.55579 AU	evening set	15999 Jan 01 19:06	9° ≈ 15'33	
inferior conj	15998 Jan 30 07:45	25°≈10′11	-5°26'42	min. Earth dist.	15999 Jan 09 11:44	5° ≈ 46′02	0.54564 AU
minimum elong	15998 Jan 30 15:53	24° ≈ 57'49	5°24'41	inferior conj	15999 Jan 10 04:44	5° ≈ 22'06	-6°01'39
morning rise	15998 Feb 07 23:50	21° ≈ 11′00		minimum elong	15999 Jan 10 05:31	5° ≈ 21'00	6°00'58
direct	15998 Feb 10 08:22	20° ≈ 56'34		morning rise	15999 Jan 18 17:04	1° ≈ 34'24	
asc. node	15998 Feb 19 10:22	24° ≈ 49′10		direct	15999 Jan 21 20:56	1° ≈ 11'46	
morning max el	15998 Feb 20 15:48	25° ≈ 56'32	19°54'12	morning max el	15999 Feb 02 18:22	6° ≈ 56′03	21°21'06
	15998 Feb 24 05:49	0° ∀		asc. node	15999 Feb 06 07:42	10° ≈ 49'39	
morning set	15998 Mar 10 09:18	24°) 43′38			15999 Feb 18 03:15	0° ∀	
	15998 Mar 12 23:26	0° Y		morning set	15999 Feb 22 18:29	9° ∺ 25'11	
superior conj	15998 Mar 18 05:30	10° Y 36'33	0°47'20	superior conj	15999 Mar 02 00:58	24°) 41′40	1°09'32
minimum elong	15998 Mar 18 07:51	10° Y 48'17	0°46'52	minimum elong	15999 Mar 02 03:29	24° ¥ 54'41	1°09'19
desc. node	15998 Mar 23 23:12	21° Y 41'49			15999 Mar 04 15:01	0° Υ	
max. Earth dist.	15998 Mar 24 06:54	22° Y 17′50	1.37169 AU	max. Earth dist.	15999 Mar 06 17:02	4° Y 10′37	1.35061 AU
evening rise	15998 Mar 27 23:54	29° Y ′04'31		evening rise	15999 Mar 10 18:27	12° Y ′01′18	
	15998 Mar 28 12:21	0° 8		desc. node	15999 Mar 10 19:50	12° Y 07′50	
	15998 Apr 16 07:35	Π °0			15999 Mar 20 23:33	0°B	
evening max el	15998 May 02 11:08	19° Ⅱ 57'21	25°28'02		15999 Apr 11 10:53	Π °0	

evening max el	15999 Apr 15 00:45	3° Ⅱ 44'57	26°32'43	evening max el	16000 Mar 27 14:12	17° 8 17'16	27°17'49
retrograde	15999 Apr 28 02:12	11° Ⅱ 10′13		retrograde	16000 Apr 10 04:33	24° 8 49'46	
evening set	15999 May 04 10:46	8° Ⅱ 37'32		evening set	16000 Apr 16 20:25	22° 8 19'43	
asc. node	15999 May 05 04:54	7° Ⅱ 58'40		min. Earth dist.	16000 Apr 20 16:51	18° 8 44'25	0.64946 AU
min. Earth dist.	15999 May 08 11:36	4° Ⅱ 30'06	0.66641 AU	asc. node	16000 Apr 21 02:08	18° 8 19'25	
inferior conj	15999 May 10 10:09	2° I I10'03	1°32'05	inferior conj	16000 Apr 23 03:50	16° 8 02'08	0°38'24
minimum elong	15999 May 10 08:09		1°30'48	minimum elong	16000 Apr 23 02:47	16° 8 05'00	0°37'30
	15999 May 12 06:34	30°R8		morning rise	16000 Apr 29 11:05	10° 8 35'19	
morning rise	15999 May 16 06:38	26° 8 29'56 25° 8 36'44		direct	16000 May 02 03:44	9° 8 57'12	17055105
direct morning max el	15999 May 19 08:41 15999 May 25 18:57	29° 8 00'11	18°21'32	morning max el	16000 May 08 11:07 16000 May 20 10:12	0°Ⅱ	17°55'05
morning max er	15999 May 26 18:25	0° Ⅱ	16 21 32	desc. node	16000 May 20 10:12 16000 May 23 17:42	5° П 26'14	
desc. node	15999 Jun 06 20:44	15° Ⅱ 22'18		morning set	16000 May 26 03:35	9° Ⅱ 25'25	
morning set	15999 Jun 14 22:42	28° I 07'15		morning set	16000 Jun 07 19:02	0°95	
morning sec	15999 Jun 16 03:09	0°95			10000 3411 07 17.02	٠٠	
	10,000 00.00	• •		superior conj	16000 Jun 09 04:20	2° © 12'28	-1°48'47
superior conj	15999 Jun 30 12:58	22°538'18	-2°10'16	minimum elong	16000 Jun 08 19:43	1° 9 38'16	1°48'49
minimum elong	15999 Jun 30 08:14	22°519'52	2°10'51	max. Earth dist.	16000 Jun 13 03:55	8°\$29'28	1.45625 AU
max. Earth dist.	15999 Jul 01 08:02	23° © 52'38	1.46002 AU	evening rise	16000 Jun 25 04:17	27° © 05'30	
	15999 Jul 05 06:22	$0^{\circ}\Omega$		•	16000 Jun 27 01:56	$0^{\circ}\Omega$	
evening rise	15999 Jul 16 12:24	17° Ω 33'38		greatest brilliancy	16000 Jul 09 09:46	18° Ω 30'11	-0.6m
	15999 Jul 24 11:46	0° m)			16000 Jul 17 20:32	0° ™	
greatest brilliancy	15999 Jul 26 04:33	2° Mp 37'00	-0.8m	asc. node	16000 Jul 18 01:12	0° ™ 14'07	
asc. node	15999 Aug 01 04:26	11° m 30'29		evening max el	16000 Jul 21 03:51	3° m 40'35	19°43'51
evening max el	15999 Aug 07 21:20	19° m 47'42	18°53'36	retrograde	16000 Jul 28 12:49	7° Mp 48'52	
retrograde	15999 Aug 14 14:30	23° m 27'47		evening set	16000 Aug 01 08:02	6° Mg 25′22	
evening set	15999 Aug 17 23:39	22° m 21'55		inferior conj	16000 Aug 06 15:55	0° m/28'33	2°58'52
inferior conj	15999 Aug 23 12:39	16° Mp 37'40	2°37'10	minimum elong	16000 Aug 06 17:12	0° m/24'17	2°58'15
minimum elong	15999 Aug 23 14:41	16° Mp 31'13	2°36'30		16000 Aug 07 00:26	30°R Ω	
min. Earth dist.	15999 Aug 25 05:32	14° m) 28'22	0.66452 AU	min. Earth dist.	16000 Aug 07 18:51	28° Ω 58'25	0.67812 AU
morning rise	15999 Aug 29 04:49	10° mp 11'06		morning rise	16000 Aug 12 01:52	24°Ω02'35	
desc. node	15999 Sep 02 18:34	7° Mp 44'16		direct	16000 Aug 17 20:21	21°Ω31'50	
direct	15999 Sep 04 09:31	7° Mp 34'06	26021150	desc. node	16000 Aug 19 15:58	21° Ω 44'52	25000122
morning max el	15999 Sep 17 07:37	15° ™ 14'19 0° ≏	26°21'50	morning max el	16000 Aug 29 18:38	28° Ω 40'27	25°02'32
	15999 Sep 29 11:15 15999 Oct 18 12:56	0° ™			16000 Aug 31 01:14	0° ⴀ 0°ആ	
morning set	15999 Oct 18 12.36 15999 Oct 23 04:56	8°M29'28		morning set	16000 Sep 22 05:11 16000 Oct 04 13:47	0 <u>≈</u> 20° <u>≈</u> 35'04	
max. Earth dist.	15999 Oct 27 01:16	15°ML51'43	1.34662 AU	max. Earth dist.	16000 Oct 04 13:47 16000 Oct 08 02:21	26° ⊆ 57'48	1.36827 AU
asc. node	15999 Oct 28 05:49	18°ML12'31	1.54002 AC	max. Larm dist.	16000 Oct 08 02:21 16000 Oct 09 17:32	0°M	1.50027 AC
use. Houe	13777 000 20 03.17	10 1101231		asc. node	16000 Oct 14 02:34	8°M23'45	
superior conj	15999 Nov 01 06:33	26°ML22'40	0°36'11	use. noue	10000 000 11 02.51	0 110-23 10	
minimum elong	15999 Nov 01 04:43	26°M13'08	0°36'27	superior conj	16000 Oct 14 18:43	9° ™ 43'05	0°06'06
Č	15999 Nov 03 00:25	0° ∡ ¹		minimum elong	16000 Oct 14 18:19	9° ™ 41'04	0°06'28
evening rise	15999 Nov 08 17:57	12° ∡ °02'43		behind sun begin	16000 Oct 14 12:19	9° M .11′35	
	15999 Nov 17 23:05	ರ∘ರ		behind sun end	16000 Oct 15 00:18	10° M ₊10'37	
evening max el	15999 Nov 27 21:00	13° る 38'11	20°56'18	evening rise	16000 Oct 22 23:10	26°M12'39	
desc. node	15999 Nov 29 16:02	15° ට 16'37			16000 Oct 24 20:19	0° ∡ ¹	
retrograde	15999 Dec 09 10:18	19° る 21'50		evening max el	16000 Nov 09 04:24	24° ₹ 36′09	19°40'03
evening set	15999 Dec 12 00:38	19° る 05'45		desc. node	16000 Nov 15 13:09	28° ∡ 55'59 −	
inferior conj	15999 Dec 20 19:31	15° る 14'07		retrograde	16000 Nov 19 02:18	29° ∡ ³33′16	
minimum elong	15999 Dec 20 11:40		5°34'22	evening set	16000 Nov 21 01:56	29° ₹ 22'16	
min. Earth dist.	15999 Dec 21 17:13	14° 3 43'09	0.54454 AU	inferior conj	16000 Nov 29 18:39	25° ₹ 19'34	
morning rise	15999 Dec 28 22:48	11°る20'57		minimum elong	16000 Nov 29 08:48	25° 🗷 35'01	4°14'13
direct	16000 Jan 02 04:16	10°る42'27	22807102	min. Earth dist.	16000 Dec 02 00:59	23° x 54'17	0.55287 AU
morning max el asc. node	16000 Jan 15 07:58 16000 Jan 24 05:00	17°る07'27 28°る02'36	23°06'02	morning rise direct	16000 Dec 07 14:00 16000 Dec 12 19:32	21°×702'20 20°×701'31	
asc. Hout	16000 Jan 24 05:00 16000 Jan 25 11:35	28° ℃ 02′36		morning max el	16000 Dec 12 19:32 16000 Dec 26 16:20	26° x '01'31' 26° x '58'14	24°55'27
morning set	16000 Jan 23 11:33 16000 Feb 07 06:02	0 ≈ 24°≈09'29		morning max ci	16000 Dec 20 16:20 16000 Dec 29 14:37	20 x 36 14 0°る	27 JJ 21
morning set	16000 Feb 07 00:02 16000 Feb 09 23:10	0° \		asc. node	16000 Dec 29 14:37 16001 Jan 10 02:15	00 16°る10'15	
	22222 20 07 20.10	- /\			16001 Jan 17 12:36	0° ≈	
superior conj	16000 Feb 14 04:01	9° ₩ 05'35	1°25'17	morning set	16001 Jan 21 17:57	8°≈50'07	
minimum elong	16000 Feb 14 06:00	9° ₩ 16'18	1°25'26	<i>5</i>	,,	/	
max. Earth dist.	16000 Feb 17 10:09	16° ₩ 00'04	1.33313 AU	superior conj	16001 Jan 28 11:55	23° ≈ 39'47	1°34'45
evening rise	16000 Feb 22 02:17	25° ¥ 30′07		minimum elong	16001 Jan 28 13:01	23° ≈ 45'51	1°35'13
-	16000 Feb 24 09:54	0° Y		max. Earth dist.	16001 Jan 30 10:41	27° ≈ 56′01	1.32028 AU
desc. node	16000 Feb 25 16:30	2° Y 24'40			16001 Jan 31 09:32	0°) €	
	16000 Mar 13 09:59	9° 8		evening rise	16001 Feb 04 20:07	9° ∺ 21'56	

	16001 E 1 11 12 11	2201/26125			16000 1 10 21 20	220 - 20124	
desc. node	16001 Feb 11 13:11	22°) €26'35		evening rise	16002 Jan 19 21:20	23°≈30'34	
	16001 Feb 15 19:09	0° Υ			16002 Jan 23 00:50	0° ∀	
	16001 Mar 09 16:54	0°8		desc. node	16002 Jan 29 09:52	12° ∺ 07'41	
evening max el	16001 Mar 10 01:58	0° 8 21'56	27°36'12		16002 Feb 09 15:03	0° Y	
retrograde	16001 Mar 23 23:34	7° 8 51'45		evening max el	16002 Feb 20 09:32	12° Ƴ 46′10	27°21'54
evening set	16001 Mar 30 19:01	5° 8 31'47		retrograde	16002 Mar 06 09:50	20° Ƴ 07'13	
min. Earth dist.	16001 Apr 03 13:21	2° 8 23'59	0.62923 AU	evening set	16002 Mar 13 03:42	18° Ƴ 04'24	
	16001 Apr 05 23:52	30° ŖƳ		min. Earth dist.	16002 Mar 16 23:41	15° Ƴ 17'05	0.60705 AU
inferior conj	16001 Apr 06 10:59	29° Y 32'20	-0°29'04	inferior conj	16002 Mar 20 04:07	12° Y 31'37	-1°49'51
minimum elong	16001 Apr 06 11:56	29° Y ′29'58	0°29'01	minimum elong	16002 Mar 20 08:10	12° Y ′22'49	1°48'19
asc. node	16001 Apr 07 23:26	28° Y ′04'01		asc. node	16002 Mar 25 20:47	8° Y 21'51	
morning rise	16001 Apr 13 07:38	24° Y ′21'14		morning rise	16002 Mar 27 16:00	7° Ƴ 39'15	
direct	16001 Apr 15 16:11	23° Y ′54'53		direct	16002 Mar 29 18:18	7° Υ 21'08	
morning max el	16001 Apr 22 04:46	27° Υ 13'39	17°46'09	morning max el	16002 Apr 05 20:41	10° Y ′54'29	17°55'27
morning max or	16001 Apr 24 16:29	0°8	17 100)	morning max or	16002 Apr 18 12:57	0°8	17 33 27
morning set	16001 May 08 09:40	21° 8 54'50		morning set	16002 Apr 21 11:04	5° 8 17'39	
desc. node	16001 May 10 14:34	25° 8 43'53		desc. node	16002 Apr 27 11:20	16° 8 10'27	
desc. flode		25 Ο 45 55		desc. node	10002 Apr 27 11.20	10 01027	
	16001 May 13 02:05	от			16000 16 00 01 14	240 🗸 1 4120	0026155
	1,001.11 00 15.01	100 T 11100	101.5100	superior conj	16002 May 02 01:14	24° 8 14'38	
superior conj	16001 May 20 15:01	12° Ⅱ 41'20		minimum elong	16002 May 01 21:59	24° 8 00'32	0°36'58
minimum elong	16001 May 20 08:03	12° Ⅱ 12'32			16002 May 05 09:50	Π °0	
max. Earth dist.	16001 May 26 21:54	22° ∏ 53′25	1.44539 AU	max. Earth dist.	16002 May 09 12:12	6° Ⅱ 50'15	1.42856 AU
	16001 May 31 09:55	0 \circ \odot		evening rise	16002 May 15 12:56	16° Ⅲ 33'01	
evening rise	16001 Jun 04 15:09	6°932'14			16002 May 24 07:00	0ංම	
	16001 Jun 20 09:35	$0^{\circ}\Omega$			16002 Jun 15 13:00	$0^{\circ}\Omega$	
evening max el	16001 Jul 04 04:24	17° Ω 35′01	20°48'19	evening max el	16002 Jun 16 23:20	1° Ω 28'58	22°03'31
asc. node	16001 Jul 04 22:01	18° Ω 17'44		asc. node	16002 Jun 21 18:54	5° Ω 27'37	
retrograde	16001 Jul 12 11:48	22° Ω 21′28		retrograde	16002 Jun 26 09:49	6° Ω 59'41	
evening set	16001 Jul 16 17:47	20° Ω 40'10		evening set	16002 Jul 01 03:07	5° Ω 01'29	
inferior conj	16001 Jul 21 23:27	14° Ω 32'02	3°08'08	8	16002 Jul 05 11:02	30°Rூ	
minimum elong	16001 Jul 21 23:47	14°Ω30'53	3°07'30	inferior conj	16002 Jul 06 09:04	28°9643'25	3°06'18
min. Earth dist.	16001 Jul 22 12:44	13° Ω 46'07	0.68708 AU	minimum elong	16002 Jul 06 08:27	28°945'34	3°05'32
morning rise	16001 Jul 27 05:29	8°Ω10'23	0.00700 AC	min. Earth dist.	16002 Jul 06 09:03	28°943'30	0.69117 AU
•		5° Ω 52'23				22°\$28'25	0.09117 AU
direct	16001 Aug 01 12:17			morning rise	16002 Jul 11 13:37		
desc. node	16001 Aug 06 13:19	7° Ω 32'32	2202424	direct	16002 Jul 16 08:08	20°527'29	
morning max el	16001 Aug 12 05:34	12° Ω 15'50	23°34'24	desc. node	16002 Jul 24 10:37	24°5642'25	
	16001 Aug 26 11:32	0° m		morning max el	16002 Jul 25 18:44	25°959'34	22°06'18
	16001 Sep 15 00:32	0∘ ⊽			16002 Jul 29 10:36	0 $^{\circ}$ Ω	
morning set	16001 Sep 16 02:21	1° ഫ 48'07			16002 Aug 19 23:01	0° m)	
max. Earth dist.	16001 Sep 20 01:01	8° 亞 33'39	1.39223 AU	morning set	16002 Aug 27 15:18	12° Mp 00'48	
				max. Earth dist.	16002 Sep 02 03:17	21° Mp 00'03	1.41572 AU
superior conj	16001 Sep 27 17:26	22° ≏ 26'26	-0°28'34		16002 Sep 07 10:24	0∘ ত	
minimum elong	16001 Sep 27 19:31	22° ≏ 36′10	0°27'58				
asc. node	16001 Sep 30 23:16	28° ≏ 34'31		superior conj	16002 Sep 09 22:15	4° ₽ 21'43	-1°05'21
	16001 Oct 01 17:06	0° M .		minimum elong	16002 Sep 10 03:32	4° £ 45'04	1°04'34
evening rise	16001 Oct 06 21:49	10°ML05'00		asc. node	16002 Sep 17 19:54	18° ≏ 40'36	
8 21	16001 Oct 17 23:55	0° ⊼ ¹		evening rise	16002 Sep 20 10:24	23° ♀ 30'14	
evening max el	16001 Oct 23 01:34	6° х 24′32	18°46'06		16002 Sep 23 22:53	0° M	
retrograde	16001 Oct 31 11:21	10° ₹ 39'23		evening max el	16002 Oct 06 08:41	18°ML55'36	18°13'48
evening set	16001 Nov 02 09:08	10° x 37 2 5'04		retrograde	16002 Oct 13 15:53	22°M39'21	10 15 10
desc. node	16001 Nov 02 09:08	10 × 27 04 10° × 26'25		evening set	16002 Oct 15 18:23	22°M21'20	
		6° х 04'39	2025120	desc. node		19°M56'26	
inferior conj	16001 Nov 10 12:42				16002 Oct 20 07:37		0055117
minimum elong	16001 Nov 10 06:22	6° ₹ 16'11	2°32'12	inferior conj	16002 Oct 23 04:34	17°M37'22	
min. Earth dist.	16001 Nov 13 13:50	3° ₹ 52'01	0.56892 AU	minimum elong	16002 Oct 23 02:33	17° M .41'41	0°53'56
morning rise	16001 Nov 18 00:33	1° √ 11'55		min. Earth dist.	16002 Oct 26 10:39	14°M52'00	0.58986 AU
	16001 Nov 21 13:29	30°RM		morning rise	16002 Oct 30 07:18	12°M08'40	
direct	16001 Nov 24 00:13	29°M45'18		direct	16002 Nov 05 18:23	10°M15'45	
	16001 Nov 26 11:20	0° ∡ ¹		morning max el	16002 Nov 20 01:19	17°M56'45	27°33'58
morning max el	16001 Dec 08 04:43	7° ∡ 06′19	26°30'11		16002 Nov 30 03:33	0° ∡ ¹	
	16001 Dec 25 03:39	ರ∘ರ		asc. node	16002 Dec 14 20:30	24° ∡ 17'43	
asc. node	16001 Dec 27 23:26	4° る 59'03			16002 Dec 17 18:21	0°ರ	
morning set	16002 Jan 06 04:28	23° る 22'54		morning set	16002 Dec 21 11:49	7°る43'00	
<i>5</i>	16002 Jan 09 05:08	0° ≈		<i>5</i>			
				superior conj	16002 Dec 28 10:00	22° る 56'23	1°35'25
superior conj	16002 Jan 12 22:34	8° ≈ 18'34	1°38'05	minimum elong	16002 Dec 28 09:01	22°る50'56	1°36'07
minimum elong				_			
mmmum Ciong	16002 Ian 12 22-27	8°2218152	1°38'46	may Farth dist	16002 Dec 28 00-29	77° ~ 02'02	1 3 1000 ATT
max. Earth dist.	16002 Jan 12 22:37 16002 Jan 13 16:39	8°≈18'52 9°≈59'30	1°38'46 1.31251 AU	max. Earth dist.	16002 Dec 28 00:28 16002 Dec 31 13:46	22°る03'03 0°≈	1.31000 AU

						_	
evening rise	16003 Jan 04 03:39	7°≈50'23		superior conj	16003 Dec 12 20:23	7°る27'57	1°26'44
	16003 Jan 15 11:58	0° ∀		minimum elong	16003 Dec 12 18:33	7° る 17'50	1°27'19
desc. node	16003 Jan 16 06:37	1° ∺ 20′03		evening rise	16003 Dec 19 13:06	22° る 16'25	
evening max el	16003 Feb 02 10:05	24° ∺ 19'33	26°32'28		16003 Dec 23 04:55	0° ≈	
	16003 Feb 10 06:30	0° Y		desc. node	16004 Jan 03 03:26	19° ≈ 52′26	
retrograde	16003 Feb 16 09:59	1° Y 29'35			16004 Jan 10 10:49	0° ∀	
	16003 Feb 22 11:12	30°₽)		evening max el	16004 Jan 15 02:08	5° ∺ 00′20	25°11'34
evening set	16003 Feb 22 19:11	29° ¥ 50′07		retrograde	16004 Jan 28 22:23	11° ∺ 57′05	
min. Earth dist.	16003 Feb 26 23:36	27° ¥ 12′29	0.58473 AU	evening set	16004 Feb 03 13:49	10°) 4 5′19	
inferior conj	16003 Mar 02 03:31	24°) 50′00	-3°19'34	min. Earth dist.	16004 Feb 08 14:33	8° ₩ 02'01	0.56485 AU
minimum elong	16003 Mar 02 11:07	24°) 35′41	3°16'42	inferior conj	16004 Feb 11 06:09	6° ℋ 18'18	-4°46'25
morning rise	16003 Mar 10 06:27	20° ∺ 19'04		minimum elong	16004 Feb 11 15:32	6° ₩ 02'57	4°43'33
direct	16003 Mar 12 05:37	20° ∺ 05'41		morning rise	16004 Feb 19 19:56	2° ₩ 08'43	
asc. node	16003 Mar 12 18:09	20°) €06'40		direct	16004 Feb 21 22:00	1° ¥ 56′12	
morning max el	16003 Mar 20 07:15	24°) €04'49	18°24'22	asc. node	16004 Feb 27 15:32	3°) €37'26	
	16003 Mar 25 02:41	0 ° Υ		morning max el	16004 Mar 02 08:13	6°) 32′01	19°14'48
morning set	16003 Apr 05 02:20	19° Ƴ 17'36			16004 Mar 17 06:17	0° Y	
	16003 Apr 10 17:27	0°8		morning set	16004 Mar 19 03:02	3° Y 40'58	
	•			•			
superior conj	16003 Apr 14 08:58	6° 8 46'23	-0°00'20	superior conj	16004 Mar 27 09:50	20° Y ′03'24	0°31'37
minimum elong	16003 Apr 14 08:55	6° 8 46'09	0°00'43	minimum elong	16004 Mar 27 11:41	20° Y 12'17	0°31'06
behind sun begin	16003 Apr 14 01:41	6° 8 12'57		desc. node	16004 Mar 31 04:43	27° Ƴ 14'39	
behind sun end	16003 Apr 14 16:09	7° 8 19'15			16004 Apr 01 16:31	0°B	
desc. node	16003 Apr 14 08:03	6° 8 42'07		max. Earth dist.	16004 Apr 03 03:38	2° 8 39'45	1.38465 AU
max. Earth dist.	16003 Apr 21 21:37	20° 8 06'56	1.40753 AU	evening rise	16004 Apr 06 21:12	9° 8 16'03	
evening rise	16003 Apr 26 06:30	27° 8 27'30		C	16004 Apr 19 15:50	$\Pi^{\circ}0$	
Č	16003 Apr 27 19:46	0°II		evening max el	16004 May 12 03:53	29° Ⅱ 18′04	24°44'54
	16003 May 17 21:20	0° ©		Č	16004 May 12 21:09	0°95	
evening max el	16003 May 30 14:23	15° © 23'18	23°24'27	retrograde	16004 May 23 21:42	6°909'21	
asc. node	16003 Jun 08 15:53	21° © 27'22		asc. node	16004 May 25 12:58	5°958'04	
retrograde	16003 Jun 10 05:31	21° © 37'58		evening set	16004 May 29 13:58	3°9545'14	
evening set	16003 Jun 15 10:24	19° © 25'06			16004 Jun 02 00:46	30°R Ⅱ	
min. Earth dist.	16003 Jun 20 05:50	13°9544'15	0.69035 AU	min. Earth dist.	16004 Jun 03 00:59	28° II 41'25	0.68466 AU
inferior conj	16003 Jun 20 18:53	12°959'16	2°53'58	inferior conj	16004 Jun 04 02:58	27° I 14'56	2°31'06
minimum elong	16003 Jun 20 17:26	13°904'14	2°52'59	minimum elong	16004 Jun 04 00:57	27° I I21'38	2°29'54
morning rise	16003 Jun 26 00:27	6°952'16	2 3237	morning rise	16004 Jun 09 12:10	21° I I17'08	2 2) 3 .
direct	16003 Jun 30 06:45	5°9510'41		direct	16004 Jun 13 06:51	19° Ⅱ 55'13	
morning max el	16003 Jul 08 12:59	9° © 53'35	20°45'32	morning max el	16004 Jun 20 14:08	23° ∏ 57'42	10°37'14
desc. node	16003 Jul 11 07:49	12° © 53'46	20 43 32	morning max ci	16004 Jun 25 19:32	0°95	17 37 14
desc. flode	16003 Jul 24 02:01	0°Ω		desc. node	16004 Jun 27 04:58	1°\$50'02	
morning set	16003 Aug 07 06:10	21° Ω 18'39		greatest brilliancy	16004 Jul 03 09:40	10°934'30	-0.6m
morning set	16003 Aug 07 00:10	0° m)		morning set	16004 Jul 16 10:06	0°Ω11'39	-0.0111
max. Earth dist.	16003 Aug 12 19.03		1.43596 AU	morning set	16004 Jul 16 07:03	0°Ω	
max. Earm dist.	10003 Aug 13 11.37	4 11/1010	1.43390 AU	max. Earth dist.	16004 Jul 28 01:52	18° Ω 18'25	1.45077 AU
superior conj	16003 Aug 22 05:08	15° m 20'42	-1°39'48	max. Earth dist.	10004 Jul 28 01.32	10 061025	1.43077 AO
minimum elong	16003 Aug 22 12:50	15° m 52'55		superior conj	16004 Aug 01 12:40	25° Ω 22'20	2°05'14
minimum clong	16003 Aug 22 12:30	ე∘ <u>ი</u>	1 37 13	minimum elong	16004 Aug 01 12:40	$25^{\circ} \Omega 47'47$	
evening rise	16003 Nag 30 16.37	∘ <u>−</u> 6° ≏ 17'20		minimum clong	16004 Aug 04 09:44	0°m)	2 03 23
asc. node	16003 Sep 03 06:31 16003 Sep 04 16:33	8° ⊆ 38'31		evening rise	16004 Aug 15 10:53	18° Mp 12'56	
asc. node	16003 Sep 04 10:53	0°M		asc. node	16004 Aug 13 10:33	28° m) 23'57	
evening max el	16003 Sep 18 01:34 16003 Sep 19 21:35	1°M59'56	18°01'31	ase. Hode	16004 Aug 22 12:35	ე∘ <u>ი</u>	
retrograde	16003 Sep 19 21:33	5°M25'32	16 01 31	evening max el	16004 Aug 22 12:33 16004 Sep 02 12:31	0 <u>=</u> 15° <u>₽</u> 28'25	18007'57
evening set	16003 Sep 28 12:40 16003 Sep 28 22:38	4°M57'57		retrograde	16004 Sep 02 12.31 16004 Sep 08 21:16	13 = 28 23 18° £ 49'06	16 0/3/
inferior conj	16003 Scp 28 22:38 16003 Oct 05 16:08	29° £ 54'19	0°28'31	evening set	16004 Sep 08 21:10 16004 Sep 11 15:49	18° ⊆ 4900	
minimum elong	16003 Oct 05 17:01	29° 2 52'10		inferior conj	16004 Sep 17 13:49 16004 Sep 17 19:32	18 ⊆ 08 29 12° ⊆ 47'36	1°32'35
minimum clong	16003 Oct 05 17:01 16003 Oct 05 13:49	29 = 32 10 30°R Ω	0 28 30	minimum elong	16004 Sep 17 19.32 16004 Sep 17 21:41	12 = 47 30 12° £ 41'40	1°31'59
daga nada				•	•		
desc. node	16003 Oct 07 04:55	28° Ω 23'32	0.61275 ATT	min. Earth dist.	16004 Sep 20 09:57	9° Ω 56'09	0.63502 AU
min. Earth dist.	16003 Oct 08 17:18	26° Ω 55'53	0.61275 AU	desc. node	16004 Sep 23 02:16	7° Ω 19'49	
morning rise	16003 Oct 12 08:29	23° £ 57'23		morning rise direct	16004 Sep 24 01:31	6° £ 32'40	
direct	16003 Oct 19 00:37	21° Ω 41'42	27050152		16004 Sep 30 16:52	4° Ω 01'37	27045120
morning max el	16003 Nov 02 05:26	29° Ω 36'41	27°58'52	morning max el	16004 Oct 14 14:25	12° ⊆ 00'47	21 45 28
	16003 Nov 02 14:47	0°M 0°. ₹			16004 Oct 28 22:40	0°M 0°. ₹	
000 m-J-	16003 Nov 24 03:55	0° 🔏 57/52		000 m-J-	16004 Nov 15 14:51	0° 🗷 2° ⋅ 🗷 5 2 11 6	
asc. node	16003 Dec 01 17:29	13° 🗷 57'52		asc. node	16004 Nov 17 14:25	3° x ⁷ 53'16	
morning set	16003 Dec 05 14:00	21° ∡ 745'19		morning set	16004 Nov 18 08:42	5° × ⁷ 24'41	1 22172 411
may F4l- 1' (16003 Dec 09 10:58	0°る 2° ス 57'05	1 21200 411	max. Earth dist.	16004 Nov 23 06:16	15° ∡ '33'43	1.32172 AU
max. Earth dist.	16003 Dec 11 06:17	3° る 57'05	1.31300 AU				

superior conj	16004 Nov 26 03:47	21° ∡ ¹48'17	1°11'56	superior conj	16005 Nov 10 05:54	5° ∡ 750'33	0°51'00
minimum elong	16004 Nov 26 01:28	21° ∡ ³35'43	1°12'21	minimum elong	16005 Nov 10 03:39	5° ∡ ³38'44	0°51'17
	16004 Nov 29 21:35	0°ರ		evening rise	16005 Nov 17 10:11	21° ₹ ¹09'46	
evening rise	16004 Dec 02 23:55	6° ප 44'41			16005 Nov 21 16:40	0°₹	
	16004 Dec 15 00:30	0° ≈		desc. node	16005 Dec 06 21:20	23° ප 54'31	
desc. node	16004 Dec 20 00:21	7°≈30'34	22221116	evening max el	16005 Dec 08 00:12	25° පි 03'07	21°49'15
evening max el	16004 Dec 26 12:16	15°≈04'20	23°31'16	. 1	16005 Dec 14 23:26	0° ≈	
retrograde evening set	16005 Jan 08 21:12 16005 Jan 13 09:47	21°≈41'33 20°≈57'16		retrograde evening set	16005 Dec 20 08:42 16005 Dec 23 14:29	1°≈09'33 0°≈46'00	
min. Earth dist.	16005 Jan 19 23:18	20 ≈5710 17°≈50'07	0.55044 AU	evening set	16005 Dec 26 01:13	0 ≈4000 30°Rる	
inferior conj	16005 Jan 21 12:26	16°≈55'56		inferior conj	16006 Jan 01 05:03	26° そ 55'33	-5°58'34
minimum elong	16005 Jan 21 18:10	16° ≈ 47'34	5°46'50	minimum elong	16006 Jan 01 01:44	27° ට 00'11	5°57'38
morning rise	16005 Jan 30 04:02	13° ≈ 02'45		min. Earth dist.	16006 Jan 01 04:40	26° ප 56'05	0.54408 AU
direct	16005 Feb 01 19:20	12° ≈ 45'47		morning rise	16006 Jan 09 13:40	23° ප 07'51	
morning max el	16005 Feb 12 19:35	18° ≈ 05'16	20°28'23	direct	16006 Jan 13 04:29	22° る 39'09	
asc. node	16005 Feb 13 12:52	18° ≈ 48′25		morning max el	16006 Jan 25 15:51	28° ප් 41'31	22°04'00
	16005 Feb 21 18:51	0° ∀			16006 Jan 26 23:10	0° ≈	
morning set	16005 Mar 03 09:54	18° ¥ 18′23		asc. node	16006 Jan 31 10:12	5°≈21'54	
	16005 Mar 09 01:43	0° Ƴ		. ,	16006 Feb 14 09:37	0°) €	
superior conj	16005 Mar 10 23:36	3° Y ′54′02	0°57'30	morning set	16006 Feb 15 20:21	3° ¥ 01'57	
minimum elong	16005 Mar 11 02:08	4° Υ 06'51	0°57'09	superior conj	16006 Feb 22 22:38	18°) €07'58	1°16'59
max. Earth dist.	16005 Mar 16 10:55	14° Υ 41'51	1.36241 AU	minimum elong	16006 Feb 23 00:59	18°) € 20'24	1°16'55
desc. node	16005 Mar 18 01:24	17° Y 44'22	1.50211110	max. Earth dist.	16006 Feb 27 00:00	26°) 32'20	1.34274 AU
evening rise	16005 Mar 20 06:40	21° Y 51'19			16006 Feb 28 17:21	$0^{\circ}\mathbf{\Upsilon}$	
	16005 Mar 24 20:39	9° 8		evening rise	16006 Mar 03 07:19	5° Ƴ 02'57	
	16005 Apr 13 11:48	$\Pi^{\circ}0$		desc. node	16006 Mar 04 22:04	8° Y 07'10	
evening max el	16005 Apr 24 17:31	13° Ⅱ 10′54	25°57'32		16006 Mar 17 15:20	0°8	
retrograde	16005 May 07 09:10	20° Ⅱ 26'57		evening max el	16006 Apr 07 07:26	26° 8 54'20	26°54'48
asc. node	16005 May 12 10:07	18° Ⅱ 45'37			16006 Apr 10 18:57	0°II	
evening set	16005 May 13 12:07	17° II 56'06	0.67424.411	retrograde	16006 Apr 20 14:55	4° I I23'09	
min. Earth dist. inferior conj	16005 May 17 16:22 16005 May 19 07:20	13° Ⅱ 28'22 11° Ⅱ 25'57	0.67434 AU 1°57'08	evening set asc. node	16006 Apr 27 02:57 16006 Apr 29 07:20	1° Ⅱ 51'01 29° ႘ 52'17	
minimum elong	16005 May 19 07:20 16005 May 19 05:09	11° II 32'48	1°55'48	asc. node	16006 Apr 29 04:17	30°R B	
morning rise	16005 May 24 22:52	5° Ⅱ 38'43	1 33 40	min. Earth dist.	16006 May 01 01:50	27° 8 57'36	0.65967 AU
direct	16005 May 28 06:46	4° Ⅱ 35'30		inferior conj	16006 May 03 05:41	25° 8 27'03	1°11'00
morning max el	16005 Jun 03 22:21	8° Ⅱ 09'27	18°44'21	minimum elong	16006 May 03 03:59	25° 8 32'00	1°09'48
desc. node	16005 Jun 14 02:04	21° Ⅱ 19'19		morning rise	16006 May 09 06:23	19° 8 52'09	
greatest brilliancy	16005 Jun 18 02:53	27° Ⅱ 25'20	-0.8m	direct	16006 May 12 04:24	19° 8 05'34	
	16005 Jun 19 19:05	0 \circ \odot		morning max el	16006 May 18 12:17	22° 8 23'52	18°08'10
morning set	16005 Jun 25 22:53	9° © 33'45			16006 May 24 15:56	$0^{\circ}\Pi$	
T	16005 Jul 09 01:50	0° Ω	1 45001 477	desc. node	16006 May 31 23:05	11° I I12'51	
max. Earth dist.	16005 Jul 10 20:33	2° Ω 46'33	1.45881 AU	morning set	16006 Jun 06 11:56	20° Ⅱ 07'07	
superior conj	16005 Jul 12 02:09	4° Ω 42'05	-2014'15		16006 Jun 12 15:43	0°9	
minimum elong	16005 Jul 12 01:52	4°Ω40'58		superior conj	16006 Jun 21 11:50	13° © 58'07	-2°03'11
evening rise	16005 Jul 27 12:54	29° Ω 06'08	2 1133	minimum elong	16006 Jun 21 04:41	13° © 30'05	2°03'32
<i>y</i>	16005 Jul 28 02:22	0° m/y		max. Earth dist.	16006 Jun 23 17:22	17°527'23	1.45934 AU
asc. node	16005 Aug 08 09:55	17° m 51'00			16006 Jul 01 19:01	$0^{\circ}\Omega$	
evening max el	16005 Aug 17 02:08	29° m 11'48	18°32'06	evening rise	16006 Jul 07 14:57	9° Ω 01′29	
	16005 Aug 17 22:41	0∘ ⊽		greatest brilliancy	16006 Jul 19 10:12	27° Ω 05'36	-0.7m
retrograde	16005 Aug 23 13:39	2° £ 40'46			16006 Jul 21 09:15	0° m	
evening set	16005 Aug 26 17:23	1° ≏ 44'30		asc. node	16006 Jul 26 06:40	6° m 53'16	
	16005 Aug 28 23:23	30°RM)	2010116	evening max el	16006 Jul 31 11:49	13° Mp 03'11	19°13'06
inferior conj minimum elong	16005 Sep 01 10:46 16005 Sep 01 13:03	26° Mp 08'20 26° Mp 01'24	2°18'16 2°17'33	retrograde evening set	16006 Aug 07 10:36 16006 Aug 11 00:03	16° Mp 53'33 15° Mp 40'03	
min. Earth dist.	16005 Sep 01 13:03	23° m/40'19	0.65481 AU	inferior conj	16006 Aug 11 00:03	9° m) 50'13	2°47'59
morning rise	16005 Sep 07 07:30	19° m) 44'15	3.05 101 110	minimum elong	16006 Aug 16 12:14	9° Mp 44'32	2°47'39 2°47'21
desc. node	16005 Sep 07 07:50 16005 Sep 09 23:40	17° m 59'10		min. Earth dist.	16006 Aug 17 21:20	7° m ₂ 57'02	0.67085 AU
direct	16005 Sep 13 17:12	17° m 06'58		morning rise	16006 Aug 21 23:45	3° m/23'36	
morning max el	16005 Sep 27 01:30	24° m 57'30	26°59'39	desc. node	16006 Aug 27 21:03	0° m 48'40	
	16005 Oct 01 15:45	0∘ ⊽		direct	16006 Aug 28 00:21	0° Mp 48'36	
	16005 Oct 22 09:46	0° M		morning max el	16006 Sep 09 12:57	8° Mp 16'26	25°49'54
morning set	16005 Nov 01 17:02	18°M33'33			16006 Sep 26 14:11	0° ⊽	
asc. node	16005 Nov 04 11:16	23°M58'01	1.00.000 :==		16006 Oct 14 21:22	0°M	
max. Earth dist.	16005 Nov 05 21:26	26°M49'42	1.33608 AU	morning set	16006 Oct 15 11:36	1°M04'56	1 2554C ATT
	16005 Nov 07 10:42	0° ⊼ ¹		max. Earth dist.	16006 Oct 19 03:19	7° M 55'15	1.35546 AU

asc. node	16006 Oct 22 08:03	14° IL 08'09		morning set max. Earth dist.	16007 Sep 27 12:20 16007 Oct 01 02:46	12° ♀ 49'20 19° ♀ 11'16	1.37831 AU
superior conj	16006 Oct 25 00:04	19°M28'33	0°24'05		16007 Oct 06 22:49	0° M	
minimum elong	16006 Oct 24 22:42	19°M21'38	0°24'23				
	16006 Oct 30 02:48	0° ∡ ¹		superior conj	16007 Oct 08 06:57	2°M33'56	
evening rise	16006 Nov 01 17:55	5° ∡ 127'15		minimum elong	16007 Oct 08 07:29	2°M36'29	0°07'43
	16006 Nov 15 07:44	0°る	20021107	behind sun begin	16007 Oct 08 01:27	2°M07'29	
evening max el desc. node	16006 Nov 19 23:04 16006 Nov 23 18:24	5°る32'58 8°る41'07	20°21'06	behind sun end	16007 Oct 08 13:30	3°M05'32 4°M19'33	
	16006 Nov 23 18:24 16006 Nov 30 19:39	8°841'07 10° る 57'12		asc. node	16007 Oct 09 04:47 16007 Oct 16 20:42	19°M30'42	
retrograde evening set	16006 Nov 30 19.39 16006 Dec 03 02:03	10 3 3712 10° る 44'10		evening rise	16007 Oct 16 20.42 16007 Oct 22 06:00	19 1163042 0° x 7	
inferior conj	16006 Dec 11 21:35	6°る48'50	-5°08'09	evening max el	16007 Nov 02 12:32	16° ∡ 52′25	19°14'22
minimum elong	16006 Dec 11 21:57	7° ろ 03'02	5°05'08	desc. node	16007 Nov 10 15:31	21°×727'06	17 1422
min. Earth dist.	16006 Dec 13 10:19	5°る54'45	0.54706 AU	retrograde	16007 Nov 11 18:30	21°×27'05	
morning rise	16006 Dec 19 21:21	2° る 47'53	0.5 1700 110	evening set	16007 Nov 13 15:55	21°×20'14	
direct	16006 Dec 24 13:40	2° ට 00'41		inferior conj	16007 Nov 22 03:59	17° ∡ ¹09'35	-3°35'37
morning max el	16007 Jan 07 01:56	8° ට 39'22	23°53'08	minimum elong	16007 Nov 21 19:16	17° ∡ °24′09	3°31'50
asc. node	16007 Jan 18 07:28	22° る 59'57		min. Earth dist.	16007 Nov 24 20:01	15° ∡ ¹22'52	0.55883 AU
	16007 Jan 22 10:30	0° ≈		morning rise	16007 Nov 29 20:13	12° ∡ ³37'43	
morning set	16007 Jan 31 08:17	17° ≈ 45'36		direct	16007 Dec 05 09:56	11° ∡ ¹26′24	
	16007 Feb 05 23:11	0° ∀		morning max el	16007 Dec 19 11:22	18° ∡ ³34'36	25°38'44
					16007 Dec 29 00:05	8°0	
superior conj	16007 Feb 07 04:00	2°) 37′03	1°30'03	asc. node	16008 Jan 05 04:41	11° る 26'53	
minimum elong	16007 Feb 07 05:39	2°) 46′01	1°30'21		16008 Jan 14 16:54	0° ≈	
max. Earth dist.	16007 Feb 09 20:38	8° ¥ 25′11	1.32709 AU	morning set	16008 Jan 15 19:50	2° ≈ 24'14	
evening rise	16007 Feb 14 19:43	18° ¥ 42'17					
desc. node	16007 Feb 19 18:43	28° ¥ 18′22		superior conj	16008 Jan 22 13:21	17° ≈ 14'41	1°36'55
	16007 Feb 20 16:41	0° Ƴ		minimum elong	16008 Jan 22 14:01	17°≈18′23	1°37'29
	16007 Mar 11 20:06	0°8		max. Earth dist.	16008 Jan 23 23:48	20°≈25'12	1.31629 AU
evening max el	16007 Mar 20 20:23	10° 8 16'24	27°29'15		16008 Jan 28 10:01	0°) {	
retrograde	16007 Apr 03 14:04	17° 8 48'17		evening rise	16008 Jan 29 17:00	2°)(42'23	
evening set min. Earth dist.	16007 Apr 10 08:13	15° 8 21'28	0.64122 AU	desc. node	16008 Feb 06 15:22 16008 Feb 13 12:29	18°) 12'40 0° \'	
asc. node	16007 Apr 14 03:23 16007 Apr 16 04:37	9° 8 49'43	0.04122 AU	evening max el	16008 Feb 13 12.29 16008 Mar 02 06:27	23°Υ05'05	27°34'16
inferior conj	16007 Apr 16 04:37	9° 8 10'52	0°11'30	evening max er	16008 Mar 12 18:03	0° 8	27 34 10
minimum elong	16007 Apr 16 19:10	9° 8 11'44	0°10'56	retrograde	16008 Mar 16 05:43	0° 8 32'31	
transit middle	16007 Apr 16 18:57	9° 8 11'44	0°10'56	retrograde	16008 Mar 19 14:33	30°RY	
transit begin	16007 Apr 16 16:41	9° 8 17'44		evening set	16008 Mar 23 01:19	28°Υ'18'36	
transit end	16007 Apr 16 21:13	9° 8 05'45		min. Earth dist.	16008 Mar 26 19:34	25° Y ′20′49	0.61995 AU
morning rise	16007 Apr 23 07:56	3° 8 50'35		inferior conj	16008 Mar 29 20:55	22° Y ′29'24	-1°01'50
direct	16007 Apr 25 21:04	3° 8 17'49		minimum elong	16008 Mar 29 23:03	22° Y ′24'22	1°01'11
morning max el	16007 May 02 05:30	6° 8 32'50	17°49'10	asc. node	16008 Apr 02 01:55	19° Y '40'38	
	16007 May 18 00:14	Π °0		morning rise	16008 Apr 05 23:56	17° Y ′26'17	
desc. node	16007 May 18 19:59	1° Ⅱ 23'19		direct	16008 Apr 08 05:30	17° Y °03′57	
morning set	16007 May 19 04:07	1° Ⅱ 57'35		morning max el	16008 Apr 14 22:55	20° Y 27′29	17°47'50
					16008 Apr 22 03:20	0° 8	
superior conj	16007 Jun 01 10:19	23°II52'59		morning set	16008 Apr 30 19:08	14° 8 51'58	
minimum elong	16007 Jun 01 01:54	23° Ⅱ 19'05	1°35'19	desc. node	16008 May 04 16:50	21° 8 45'33 0° I I	
may Earth dist	16007 Jun 05 06:13	0°ഇ 2° ഇ 02'18	1 45242 ATT		16008 May 09 10:46	υщ	
max. Earth dist. evening rise	16007 Jun 06 13:08 16007 Jun 17 02:36	18°925'48	1.45243 AU	superior conj	16008 May 12 07:04	4° ∏ 50′02	0.50.20
evening rise	16007 Jun 24 18:01	18 3 25 48		minimum elong	16008 May 12 07:04 16008 May 12 01:37	4° ∏ 27'06	
asc. node	16007 Jul 13 03:27	25° Ω 21'17		max. Earth dist.	16008 May 19 05:20	16° Ⅱ 15'05	1.43886 AU
evening max el	16007 Jul 14 15:45	26°Ω56'36	20°09'38	evening rise	16008 May 26 16:26	28° П 02'56	1.10000110
* · · · · · · · · · · · · · · · · · · ·	16007 Jul 18 08:42	0° m)		0.08	16008 May 27 22:44	0.ಪ	
retrograde	16007 Jul 22 09:32	1° m/20'16			16008 Jun 17 12:50	$0^{\circ}\Omega$	
evening set	16007 Jul 26 09:15	29° Ω 49'01		evening max el	16008 Jun 26 13:37	10° Q 50′08	21°19'10
	16007 Jul 26 03:21	30°R Ω		asc. node	16008 Jun 29 00:17	13° Ω 03'43	
inferior conj	16007 Jul 31 15:50	23° Ω 46′57	3°04'12	retrograde	16008 Jul 05 08:22	15° Ω 55'36	
minimum elong	16007 Jul 31 16:43	23° Ω 43'57	3°03'37	evening set	16008 Jul 09 19:01	14° Ω 07'02	
min. Earth dist.	16007 Aug 01 12:49	22° Ω 35'30	0.68249 AU	inferior conj	16008 Jul 15 00:30	7° Ω 54'17	3°08'38
morning rise	16007 Aug 05 23:49	17° Ω 22'26		minimum elong	16008 Jul 15 00:25	7° £ 54'33	3°07'59
direct	16007 Aug 11 13:20	14° Ω 56'45		min. Earth dist.	16008 Jul 15 08:06	7° Ω 27'48	0.68941 AU
desc. node	16007 Aug 14 18:26	15° Ω 37'29	24025120	morning rise	16008 Jul 20 05:35	1° Ω 34'57	
morning max el	16007 Aug 22 23:58	21° Ω 47'39	24°25'39	J:4	16008 Jul 22 14:21	30°₹©	
	16007 Aug 30 03:36	0 ்⊽ 0∘ ம்		direct	16008 Jul 25 07:05	29° © 23'50 0° Ω	
	16007 Sep 19 20:15	v ==			16008 Jul 28 04:18	0 86	

desc. node	16008 Jul 31 15:46	2° Ω 02'33		direct	16009 Jul 09 04:26	14° © 03'16	
morning max el	16008 Aug 04 11:32	5° Ω 26′25	22°56'21	morning max el	16009 Jul 18 02:24	19° © 13'51	21°30'35
	16008 Aug 23 10:36	0° ™		desc. node	16009 Jul 18 13:04	19° 5 540'49	
morning set	16008 Sep 07 15:04	23°m/37'00			16009 Jul 27 02:08	0 $^{\circ}$ Ω	
	16008 Sep 11 10:40	0∘ ⊽			16009 Aug 16 13:47	0° m)	
max. Earth dist.	16008 Sep 12 01:47	1° ≏ 04'25	1.40239 AU	morning set	16009 Aug 18 17:58	3° m 24'31	
		_		max. Earth dist.	16009 Aug 25 06:14	13° m 52'39	1.42487 AU
superior conj	16008 Sep 19 22:32	14° £ 57′26					
minimum elong	16008 Sep 20 01:57	15° Ω 13'00	0°43'26	superior conj	16009 Sep 01 18:31	26° m/30'10	
asc. node	16008 Sep 25 01:27	24° Ω 28'26		minimum elong	16009 Sep 02 01:04	26° m 58'25	1°19'51
	16008 Sep 27 23:15	0°M		1	16009 Sep 03 18:54	0° ⊽	
evening rise	16008 Sep 29 15:31	3°M12'10	1002015.4	asc. node	16009 Sep 11 22:05	14° £ 31'36	
evening max el	16008 Oct 15 14:26	28°M59'57	18°29'54	evening rise	16009 Sep 12 22:33	16° £ 22'40	
	16008 Oct 16 16:02	0° ⊀ 2° ⊀ 59'58			16009 Sep 20 14:30	0°M	10006116
retrograde	16008 Oct 23 11:45 16008 Oct 25 10:56	2° x '3938 2° x '45'49		evening max el	16009 Sep 29 00:38 16009 Oct 05 23:31	11°M46'59 15°M20'57	18°06'16
evening set desc. node	16008 Oct 23 10.36 16008 Oct 27 12:44	2°×'43'49' 2°×'02'23		retrograde evening set	16009 Oct 03 25:31 16009 Oct 08 05:08	13 IIL2037 14°ML59'13	
desc. Hode	16008 Oct 27 12.44 16008 Oct 30 23:10	30°RM		desc. node	16009 Oct 08 03:08 16009 Oct 14 10:02	10°M55'55	
inferior conj	16008 Nov 02 07:18	28°M14'37	1051'30	inferior conj	16009 Oct 14 10.02 16009 Oct 15 07:58	10°ML06'46	0°17'24
minimum elong	16008 Nov 02 07:18	28°M23'12	1°49'06	minimum elong	16009 Oct 15 07:23	10°ML08'05	0°16'43
min. Earth dist.	16008 Nov 05 12:15	25°M45'29	0.57733 AU	min. Earth dist.	16009 Oct 18 13:01	7°M13'20	0.59954 AU
morning rise	16008 Nov 09 15:26	23°M05'52	0.57755 AO	morning rise	16009 Oct 18 15:01 16009 Oct 22 06:23	4°M25'13	0.57754 AO
direct	16008 Nov 15 20:50	21°M27'31		direct	16009 Oct 28 20:39	2°M21'44	
morning max el	16008 Nov 30 03:01	28°M58'35	27°01'48	morning max el	16009 Nov 12 02:50	10°M09'11	27°49'25
morning max cr	16008 Dec 01 03:45	0° ⊼	27 01 40	morning max er	16009 Nov 27 12:28	0° ∡ 7	21 47 23
	16008 Dec 21 19:29	0°ਰ		asc. node	16009 Dec 08 22:51	19° х 757'57	
asc. node	16008 Dec 21 13:23	0° る 29'23		use. Houe	16009 Dec 13 22:15	0°る	
morning set	16008 Dec 30 05:13	16° る 52'09		morning set	16009 Dec 14 10:37	1° る 04'54	
morning sec	16009 Jan 05 04:13	0° ≈		max. Earth dist.	16009 Dec 20 14:10	14° る 28'55	1.31060 AU
superior conj	16009 Jan 06 00:33	1°≈53'55	1°37'43	superior conj	16009 Dec 21 11:47	16° る 29'36	1°32'29
minimum elong	16009 Jan 06 00:10	1° ≈ 51'43	1°38'24	minimum elong	16009 Dec 21 10:25	16° පි 21'58	1°33'08
max. Earth dist.	16009 Jan 06 06:47	2° ≈ 28'47	1.31071 AU	C	16009 Dec 27 13:50	0° ≈	
evening rise	16009 Jan 12 20:36	16°≈56′26		evening rise	16009 Dec 28 04:30	1° ≈ 19'29	
C	16009 Jan 19 07:17	0°) €		desc. node	16010 Jan 10 08:49	26° ≈ 39'07	
desc. node	16009 Jan 23 12:03	7°) 42′33			16010 Jan 12 10:53	0° ∀	
	16009 Feb 07 15:24	0° Y		evening max el	16010 Jan 25 08:31	16°) 19'40	26°01'29
evening max el	16009 Feb 12 11:18	5° Y 08'35	27°05'10	retrograde	16010 Feb 08 07:26	23°) €23'39	
retrograde	16009 Feb 26 12:14	12° Y 25'47		evening set	16010 Feb 14 10:07	21°) 56′01	
evening set	16009 Mar 05 03:08	10° Ƴ 32'21		min. Earth dist.	16010 Feb 18 21:40	19° 米 17′50	0.57584 AU
min. Earth dist.	16009 Mar 09 01:37	7° Y ′50'27	0.59742 AU	inferior conj	16010 Feb 21 21:46	17° ∺ 10′28	-3°57'48
inferior conj	16009 Mar 12 06:56	5° Y 12′30		minimum elong	16010 Feb 22 06:32	16° ¥ 54'56	3°54'43
minimum elong	16009 Mar 12 12:31	5° Y 01′04	2°25'06	morning rise	16010 Mar 02 06:05	12°) (48′21	
asc. node	16009 Mar 19 23:17	0° Y 30′23		direct	16010 Mar 04 05:32	12°) ₹35′48	
morning rise	16009 Mar 20 01:26	0° Y 28′59		asc. node	16010 Mar 06 20:40	12° 米 59′09	
direct	16009 Mar 22 01:43	0° Υ 13′26		morning max el	16010 Mar 12 19:58	16° ¥ 49'35	18°42'58
morning max el	16009 Mar 29 13:03	3° Y 56'47	18°05'11		16010 Mar 22 03:51	0° Υ	
morning set	16009 Apr 14 03:03	28° Y 32'12		morning set	16010 Mar 28 22:47	12° Ƴ 43'22	
	16009 Apr 14 21:57	0°8				••	
desc. node	16009 Apr 21 13:34	12° 8 14'34		superior conj	16010 Apr 06 18:22	29° Y 41′06	
				minimum elong	16010 Apr 06 19:16	29° Y 45′23	0°13'27
superior conj	16009 Apr 24 02:51	16° 8 49'13		behind sun begin	16010 Apr 06 15:32	29° Y 27'52	
minimum elong	16009 Apr 24 01:06	16° 8 41'26		behind sun end	16010 Apr 06 23:01	0° 8 02'53	
max. Earth dist.	16009 May 01 17:01		1.42002 AU		16010 Apr 06 22:24	0°8	
	16009 May 01 18:30	0°П		desc. node	16010 Apr 08 10:15	2° 8 46'40	1.00006.477
evening rise	16009 May 06 22:03	8° Ⅱ 25'33		max. Earth dist.	16010 Apr 14 00:52		1.39796 AU
avanie 1	16009 May 21 01:07	0°55	22027120	evening rise	16010 Apr 18 00:44	19° 8 43'33	
evening max el	16009 Jun 09 06:42	24°5944'30	22~3/39		16010 Apr 24 07:39	0° ∏	
asc. node	16009 Jun 15 21:12	29°5946'03		ovening mass -1	16010 May 15 06:09	0°©	22050115
ratrograda	16009 Jun 16 10:19	0°Ω 0°Ω34'24		evening max el	16010 May 22 21:01	8° © 39'34 15° © 10'19	25 39 13
retrograde	16009 Jun 19 05:34	0°8€34°24 30°Rூ		retrograde asc. node	16010 Jun 02 23:44 16010 Jun 02 18:14	15°9010'19	
evening set	16009 Jun 21 20:32 16009 Jun 24 03:40	30°R≌ 28°©29'55		asc. node evening set	16010 Jun 02 18:14 16010 Jun 08 09:34	13°952'17	
evening set inferior conj	16009 Jun 24 03:40 16009 Jun 29 10:27		3°02'19	min. Earth dist.	16010 Jun 08 09:34 16010 Jun 13 01:16	7°\$27'20	0.68855 AU
minimum elong	16009 Jun 29 10:27	22°50819 22°511'45	3°01'29	inferior conj	16010 Jun 13 19:46	6°9524'23	0.08833 AU 2°45'35
min. Earth dist.	16009 Jun 29 04:58	22°\$27'26		minimum elong	16010 Jun 13 19:40	6°930'15	
morning rise	16009 Jul 04 15:07	15°\$56'21	0.07173 AU	morning rise	16010 Jun 19 02:34	0°930'13	Δ TTJ1
morning 1150	1000/Jul 04 13.0/	10 -00 41		morning risc	10010 Jun 17 02.34	v -> 21 12	

	16010 Jun 19 14:15	30°RⅡ		morning rise	16011 Jun 03 14:07	14° Ⅱ 45'35	
direct	16010 Jun 23 03:56	28° Ⅱ 47'50		direct	16011 Jun 07 04:10	13° Ⅱ 31'50	
	16010 Jun 27 00:10	0ಂಣ		morning max el	16011 Jun 14 03:43	17° Ⅱ 20'14	19°12'47
morning max el	16010 Jun 30 23:22	3°511'44	20°14'43	desc. node	16011 Jun 22 07:23	27° Ⅱ 24'22	
desc. node	16010 Jul 05 10:16	8°912'44			16011 Jun 24 03:03	0ංම	
	16010 Jul 20 21:30	$0^{\circ}\Omega$		greatest brilliancy	16011 Jun 26 22:30	4° © 07'25	-0.7m
morning set	16010 Jul 29 02:07	12° Ω 25'59		morning set	16011 Jul 08 07:24	21° © 25'07	
max. Earth dist.	16010 Aug 07 17:45	27° Ω 32'15	1.44308 AU		16011 Jul 13 20:48	$0^{\circ}\Omega$	
	16010 Aug 09 06:42	0° m)		max. Earth dist.	16011 Jul 21 10:37	11° Ω 47'54	1.45512 AU
	16010 4 12 15 22	70 m. 0.411 2	1952100		16011 1 1 24 12 50	160 🔿 44116	2011125
superior conj	16010 Aug 13 15:22	7° Mp 04'12 7° Mp 36'06		superior conj minimum elong	16011 Jul 24 13:59	16° Ω 44'16 17° Ω 00'20	
minimum elong	16010 Aug 13 23:09 16010 Aug 26 12:55	28° Mp 49'21	1°51'51	minimum elong	16011 Jul 24 18:03	0° m)	2-11-55
evening rise	16010 Aug 26 12.33	ე∘ ഹ		evening rise	16011 Aug 01 21:16 16011 Aug 08 05:23	10° m y 19'33	
asc. node	16010 Aug 27 03:18 16010 Aug 29 18:44	0 == 4° £ 24'37		asc. node	16011 Aug 08 03:23	24° Mp 02'56	
evening max el	16010 Sep 12 14:52	25° ⊆ 02'29	18°01'59	ase. Hode	16011 Aug 20 11:40	ე∘ <u>ი</u>	
retrograde	16010 Sep 12 14:32	28° ♀ 24'15	10 01 37	evening max el	16011 Aug 27 05:33	ა _ 8° ჲ 37'44	18°16'00
evening set	16010 Sep 21 15:34	27° £ 51'21		retrograde	16011 Sep 02 14:28	12° ⊆ 00'36	10 10 00
inferior conj	16010 Sep 28 02:46	22° ⊆ 39'47	0°58'06	evening set	16011 Sep 02 11:29	11° ⊆ 13'37	
minimum elong	16010 Sep 28 04:21	22° ₽ 35'39	0°57'45	inferior conj	16011 Sep 11 11:41	5° £ 45'42	1°54'05
min. Earth dist.	16010 Sep 30 23:43	19° £ 42'25	0.62249 AU	minimum elong	16011 Sep 11 14:00	5° ₽ 39'00	1°53'23
desc. node	16010 Oct 01 07:24	19° £ 23'32		min. Earth dist.	16011 Sep 13 20:27	3° ഫ 02'37	0.64385 AU
morning rise	16010 Oct 04 14:39	16° £ 34'10			16011 Sep 16 20:59	30°R, M)	
direct	16010 Oct 11 07:06	14° £ 11'13		morning rise	16011 Sep 17 13:31	29° m 25'39	
morning max el	16010 Oct 25 09:19	22° ≏ 08'20	27°57'37	desc. node	16011 Sep 18 04:48	28° m 56'48	
C	16010 Nov 01 07:42	0° M .		direct	16011 Sep 24 02:47	26° m 51'06	
	16010 Nov 20 16:46	0° ∡ ¹			16011 Oct 02 06:18	0∘ <u>⊽</u>	
asc. node	16010 Nov 25 19:49	9° ∡ ¹44'48		morning max el	16011 Oct 07 19:45	4° ≙ 48'24	27°29'27
morning set	16010 Nov 28 09:53	14° ∡ 757′22		-	16011 Oct 26 23:06	0°M	
max. Earth dist.	16010 Dec 03 18:04	26° ⊀ 16′22	1.31606 AU	morning set	16011 Nov 12 00:33	28°M24'16	
	16010 Dec 05 10:54	ರ∘ರ		asc. node	16011 Nov 12 16:43	29° M 44'25	
					16011 Nov 12 19:51	0° ∡ ¹	
superior conj	16010 Dec 05 21:08	0° る 56'19	1°21'12	max. Earth dist.	16011 Nov 16 14:47	7° ∡ ¹44'31	1.32718 AU
minimum elong	16010 Dec 05 19:03	0° る 44'49	1°21'43				
evening rise	16010 Dec 12 14:46	15° ප් 46'36		superior conj	16011 Nov 20 02:33	15° ₹ ¹09'01	1°03'47
	16010 Dec 19 13:03	0° ≈		minimum elong	16011 Nov 20 00:11	14° ∡ 756′18	1°04'09
desc. node	16010 Dec 28 05:42	14° ≈ 50′05			16011 Nov 26 23:03	0°ಕ	
evening max el	16011 Jan 06 21:27	26° ≈ 41′21	24°30'16	evening rise	16011 Nov 27 01:35	0° る 13'35	
	16011 Jan 10 20:56	0° ∀			16011 Dec 13 13:56	0° ≈	
retrograde	16011 Jan 20 13:39	3° ∺ 30′22		daga mada		10	
				desc. node	16011 Dec 15 02:38	1° ≈ 58'54	
evening set	16011 Jan 25 19:00	2° ∺ 30′28		evening max el	16011 Dec 19 06:51	6° ≈ 36'50	22°46'52
	16011 Jan 25 19:00 16011 Jan 30 19:45	2°) 30′28 30°R≈		evening max el retrograde	16011 Dec 19 06:51 16012 Jan 01 07:16	6°≈36'50 13°≈03'23	22°46'52
min. Earth dist.	16011 Jan 25 19:00 16011 Jan 30 19:45 16011 Jan 31 09:17	2°) 30′28 30° R≈ 29°≈39′42	0.55789 AU	evening max el retrograde evening set	16011 Dec 19 06:51 16012 Jan 01 07:16 16012 Jan 05 06:39	6°≈36'50 13°≈03'23 12°≈28'57	
min. Earth dist.	16011 Jan 25 19:00 16011 Jan 30 19:45 16011 Jan 31 09:17 16011 Feb 02 15:22	2°) 30′28 30°R≈ 29°≈39′42 28°≈16′14	-5°17'14	evening max el retrograde evening set min. Earth dist.	16011 Dec 19 06:51 16012 Jan 01 07:16 16012 Jan 05 06:39 16012 Jan 12 15:56	6°≈36'50 13°≈03'23 12°≈28'57 9°≈05'45	0.54655 AU
min. Earth dist. inferior conj minimum elong	16011 Jan 25 19:00 16011 Jan 30 19:45 16011 Jan 31 09:17 16011 Feb 02 15:22 16011 Feb 03 00:03	2° ₩ 30'28 30° R≈ 29° ≈ 39'42 28° ≈ 16'14 28° ≈ 02'48	-5°17'14	evening max el retrograde evening set min. Earth dist. inferior conj	16011 Dec 19 06:51 16012 Jan 01 07:16 16012 Jan 05 06:39 16012 Jan 12 15:56 16012 Jan 13 14:25	6°≈36'50 13°≈03'23 12°≈28'57 9°≈05'45 8°≈33'53	0.54655 AU -6°00'04
min. Earth dist. inferior conj minimum elong morning rise	16011 Jan 25 19:00 16011 Jan 30 19:45 16011 Jan 31 09:17 16011 Feb 02 15:22 16011 Feb 03 00:03 16011 Feb 11 07:13	2° ★30'28 30°R≈ 29°≈39'42 28°≈16'14 28°≈02'48 24°≈14'43	-5°17'14	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	16011 Dec 19 06:51 16012 Jan 01 07:16 16012 Jan 05 06:39 16012 Jan 12 15:56 16012 Jan 13 14:25 16012 Jan 13 16:38	6°≈36'50 13°≈03'23 12°≈28'57 9°≈05'45 8°≈33'53 8°≈30'45	0.54655 AU
min. Earth dist. inferior conj minimum elong morning rise direct	16011 Jan 25 19:00 16011 Jan 30 19:45 16011 Jan 31 09:17 16011 Feb 02 15:22 16011 Feb 03 00:03 16011 Feb 11 07:13 16011 Feb 13 13:44	2° ¥30'28 30° R≈ 29°≈39'42 28°≈16'14 28°≈02'48 24°≈14'43 24°≈00'58	-5°17'14	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	16011 Dec 19 06:51 16012 Jan 01 07:16 16012 Jan 05 06:39 16012 Jan 12 15:56 16012 Jan 13 14:25 16012 Jan 13 16:38 16012 Jan 22 03:50	6°≈36'50 13°≈03'23 12°≈28'57 9°≈05'45 8°≈33'53 8°≈30'45 4°≈45'16	0.54655 AU -6°00'04
min. Earth dist. inferior conj minimum elong morning rise direct asc. node	16011 Jan 25 19:00 16011 Jan 30 19:45 16011 Jan 31 09:17 16011 Feb 02 15:22 16011 Feb 03 00:03 16011 Feb 11 07:13 16011 Feb 13 13:44 16011 Feb 21 18:02	2° ₩30'28 30° R≈ 29°≈39'42 28°≈16'14 28°≈02'48 24°≈14'43 24°≈00'58 27°≈14'00	-5°17'14 5°14'59	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	16011 Dec 19 06:51 16012 Jan 01 07:16 16012 Jan 05 06:39 16012 Jan 12 15:56 16012 Jan 13 14:25 16012 Jan 13 16:38 16012 Jan 22 03:50 16012 Jan 25 04:05	6°≈36'50 13°≈03'23 12°≈28'57 9°≈05'45 8°≈33'53 8°≈30'45 4°≈45'16 4°≈24'25	0.54655 AU -6°00'04 5°59'19
min. Earth dist. inferior conj minimum elong morning rise direct	16011 Jan 25 19:00 16011 Jan 30 19:45 16011 Jan 31 09:17 16011 Feb 02 15:22 16011 Feb 03 00:03 16011 Feb 11 07:13 16011 Feb 13 13:44 16011 Feb 21 18:02 16011 Feb 23 15:30	2° ₩30'28 30° R∞ 29° ≈39'42 28° ≈16'14 28° ≈02'48 24° ≈14'43 24° ≈14'00 28° ≈54'24	-5°17'14	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	16011 Dec 19 06:51 16012 Jan 01 07:16 16012 Jan 05 06:39 16012 Jan 12 15:56 16012 Jan 13 14:25 16012 Jan 13 16:38 16012 Jan 22 03:50 16012 Jan 25 04:05 16012 Feb 05 20:22	6°≈36'50 13°≈03'23 12°≈28'57 9°≈05'45 8°≈33'53 8°≈30'45 4°≈45'16 4°≈24'25 10°≈02'31	0.54655 AU -6°00'04
min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	16011 Jan 25 19:00 16011 Jan 30 19:45 16011 Jan 31 09:17 16011 Feb 02 15:22 16011 Feb 03 00:03 16011 Feb 11 07:13 16011 Feb 13 13:44 16011 Feb 21 18:02 16011 Feb 23 15:30 16011 Feb 24 17:09	2° ₩30′28 30° R∞ 29° ≈39′42 28° ≈16′14 28° ≈02′48 24° ≈14′43 24° ≈00′58 27° ≈14′00 28° ≈54′24 0° ₩	-5°17'14 5°14'59	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	16011 Dec 19 06:51 16012 Jan 01 07:16 16012 Jan 05 06:39 16012 Jan 12 15:56 16012 Jan 13 14:25 16012 Jan 13 16:38 16012 Jan 22 03:50 16012 Jan 25 04:05 16012 Feb 05 20:22 16012 Feb 08 15:24	6°≈36'50 13°≈03'23 12°≈28'57 9°≈05'45 8°≈33'53 8°≈30'45 4°≈45'16 4°≈24'25 10°≈02'31 13°≈01'57	0.54655 AU -6°00'04 5°59'19
min. Earth dist. inferior conj minimum elong morning rise direct asc. node	16011 Jan 25 19:00 16011 Jan 30 19:45 16011 Jan 31 09:17 16011 Feb 02 15:22 16011 Feb 03 00:03 16011 Feb 11 07:13 16011 Feb 13 13:44 16011 Feb 21 18:02 16011 Feb 23 15:30 16011 Feb 24 17:09 16011 Mar 13 02:31	2° ₩30′28 30° R∞ 29° ≈39′42 28° ≈16′14 28° ≈02′48 24° ≈14′43 24° ≈00′58 27° ≈14′00 28° ≈54′24 0° ₩ 27° ₩14′14	-5°17'14 5°14'59	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	16011 Dec 19 06:51 16012 Jan 01 07:16 16012 Jan 05 06:39 16012 Jan 12 15:56 16012 Jan 13 14:25 16012 Jan 13 16:38 16012 Jan 22 03:50 16012 Jan 25 04:05 16012 Feb 05 20:22 16012 Feb 08 15:24 16012 Feb 19 12:26	6°≈36'50 13°≈03'23 12°≈28'57 9°≈05'45 8°≈33'53 8°≈30'45 4°≈45'16 4°≈24'25 10°≈02'31 13°≈01'57 0° ★	0.54655 AU -6°00'04 5°59'19
min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	16011 Jan 25 19:00 16011 Jan 30 19:45 16011 Jan 31 09:17 16011 Feb 02 15:22 16011 Feb 03 00:03 16011 Feb 11 07:13 16011 Feb 13 13:44 16011 Feb 21 18:02 16011 Feb 23 15:30 16011 Feb 24 17:09	2° ₩30′28 30° R∞ 29° ≈39′42 28° ≈16′14 28° ≈02′48 24° ≈14′43 24° ≈00′58 27° ≈14′00 28° ≈54′24 0° ₩	-5°17'14 5°14'59	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	16011 Dec 19 06:51 16012 Jan 01 07:16 16012 Jan 05 06:39 16012 Jan 12 15:56 16012 Jan 13 14:25 16012 Jan 13 16:38 16012 Jan 22 03:50 16012 Jan 25 04:05 16012 Feb 05 20:22 16012 Feb 08 15:24	6°≈36'50 13°≈03'23 12°≈28'57 9°≈05'45 8°≈33'53 8°≈30'45 4°≈45'16 4°≈24'25 10°≈02'31 13°≈01'57	0.54655 AU -6°00'04 5°59'19
min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	16011 Jan 25 19:00 16011 Jan 30 19:45 16011 Jan 31 09:17 16011 Feb 02 15:22 16011 Feb 03 00:03 16011 Feb 11 07:13 16011 Feb 13 13:44 16011 Feb 21 18:02 16011 Feb 23 15:30 16011 Feb 24 17:09 16011 Mar 13 02:31	2° ₩30′28 30° R∞ 29° ≈39′42 28° ≈16′14 28° ≈02′48 24° ≈14′43 24° ≈00′58 27° ≈14′00 28° ≈54′24 0° ₩ 27° ₩14′14	-5°17'14 5°14'59	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	16011 Dec 19 06:51 16012 Jan 01 07:16 16012 Jan 05 06:39 16012 Jan 12 15:56 16012 Jan 13 14:25 16012 Jan 13 16:38 16012 Jan 22 03:50 16012 Jan 25 04:05 16012 Feb 05 20:22 16012 Feb 08 15:24 16012 Feb 19 12:26	6°≈36'50 13°≈03'23 12°≈28'57 9°≈05'45 8°≈33'53 8°≈30'45 4°≈45'16 4°≈24'25 10°≈02'31 13°≈01'57 0° ★	0.54655 AU -6°00'04 5°59'19
min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	16011 Jan 25 19:00 16011 Jan 30 19:45 16011 Jan 31 09:17 16011 Feb 02 15:22 16011 Feb 03 00:03 16011 Feb 11 07:13 16011 Feb 13 13:44 16011 Feb 21 18:02 16011 Feb 23 15:30 16011 Feb 24 17:09 16011 Mar 13 02:31 16011 Mar 14 11:17	2° ₩30'28 30° R≈ 29° ≈39'42 28° ≈16'14 28° ≈02'48 24° ≈14'43 24° ≈00'58 27° ≈14'00 28° ≈54'24 0° ₩ 27° ₩14'14 0° Υ	-5°17'14 5°14'59 19°43'18	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	16011 Dec 19 06:51 16012 Jan 01 07:16 16012 Jan 05 06:39 16012 Jan 12 15:56 16012 Jan 13 14:25 16012 Jan 13 16:38 16012 Jan 22 03:50 16012 Jan 25 04:05 16012 Feb 05 20:22 16012 Feb 08 15:24 16012 Feb 19 12:26 16012 Feb 25 11:10	6°≈36'50 13°≈03'23 12°≈28'57 9°≈05'45 8°≈33'53 8°≈30'45 4°≈45'16 4°≈24'25 10°≈02'31 13°≈01'57 0° € 11° € 54'45	0.54655 AU -6°00'04 5°59'19 21°06'53
min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	16011 Jan 25 19:00 16011 Jan 30 19:45 16011 Jan 31 09:17 16011 Feb 02 15:22 16011 Feb 03 00:03 16011 Feb 11 07:13 16011 Feb 13 13:44 16011 Feb 21 18:02 16011 Feb 24 17:09 16011 Mar 13 02:31 16011 Mar 14 11:17	2° ₩30′28 30° R≈ 29°≈39′42 28°≈16′14 28°≈02′48 24°≈14′43 24°≈00′58 27°≈14′00 28°≈54′24 0° ₩ 27° ₩14′14 0° Υ	-5°17'14 5°14'59 19°43'18	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	16011 Dec 19 06:51 16012 Jan 01 07:16 16012 Jan 05 06:39 16012 Jan 12 15:56 16012 Jan 13 14:25 16012 Jan 13 16:38 16012 Jan 22 03:50 16012 Jan 25 04:05 16012 Feb 05 20:22 16012 Feb 08 15:24 16012 Feb 19 12:26 16012 Feb 25 11:10	6°≈36'50 13°≈03'23 12°≈28'57 9°≈05'45 8°≈33'53 8°≈30'45 4°≈45'16 4°≈24'25 10°≈02'31 13°≈01'57 0° € 11° € 54'45	0.54655 AU -6°00'04 5°59'19 21°06'53
min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	16011 Jan 25 19:00 16011 Jan 30 19:45 16011 Jan 31 09:17 16011 Feb 02 15:22 16011 Feb 03 00:03 16011 Feb 11 07:13 16011 Feb 13 13:44 16011 Feb 21 18:02 16011 Feb 23 15:30 16011 Feb 24 17:09 16011 Mar 13 02:31 16011 Mar 14 11:17	2° ₩30′28 30° R≈ 29°≈39′42 28°≈16′14 28°≈02′48 24°≈14′43 24°≈00′58 27°≈14′00 28°≈54′24 0° ₩ 27° ₩14′14 0° Ŷ 13° Ŷ14′09 13° Ŷ25′17 23° Ŷ18′31 25° Ŷ12′09	-5°17'14 5°14'59 19°43'18	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	16011 Dec 19 06:51 16012 Jan 01 07:16 16012 Jan 05 06:39 16012 Jan 12 15:56 16012 Jan 13 14:25 16012 Jan 13 16:38 16012 Jan 22 03:50 16012 Jan 25 04:05 16012 Feb 05 20:22 16012 Feb 19 12:26 16012 Feb 25 11:10 16012 Mar 03 19:22 16012 Mar 03 21:55	6°≈36'50 13°≈03'23 12°≈28'57 9°≈05'45 8°≈33'53 8°≈30'45 4°≈45'16 4°≈24'25 10°≈02'31 13°≈01'57 0° € 11° € 54'45 27° € 15'48 27° € 28'53	0.54655 AU -6°00'04 5°59'19 21°06'53
min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node	16011 Jan 25 19:00 16011 Jan 30 19:45 16011 Jan 31 09:17 16011 Feb 02 15:22 16011 Feb 03 00:03 16011 Feb 11 07:13 16011 Feb 13 13:44 16011 Feb 21 18:02 16011 Feb 23 15:30 16011 Feb 24 17:09 16011 Mar 13 02:31 16011 Mar 14 11:17 16011 Mar 21 01:15 16011 Mar 21 03:31 16011 Mar 26 06:55	2° ₩30′28 30° R≈ 29°≈39′42 28°≈16′14 28°≈02′48 24°≈14′43 24°≈00′58 27°≈14′00 28°≈54′24 0° ₩ 27° ₩14′14 0° Ψ 13° Ψ25′17 23° Ψ18′31	-5°17'14 5°14'59 19°43'18 0°43'22 0°42'53	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	16011 Dec 19 06:51 16012 Jan 01 07:16 16012 Jan 05 06:39 16012 Jan 12 15:56 16012 Jan 13 14:25 16012 Jan 13 16:38 16012 Jan 22 03:50 16012 Jan 25 04:05 16012 Feb 05 20:22 16012 Feb 08 15:24 16012 Feb 19 12:26 16012 Feb 25 11:10 16012 Mar 03 19:22 16012 Mar 03 21:55 16012 Mar 05 03:23	6°≈36'50 13°≈03'23 12°≈28'57 9°≈05'45 8°≈33'53 8°≈30'45 4°≈45'16 4°≈24'25 10°≈02'31 13°≈01'57 0° \tag{11°\tag{54'45}} 27°\tag{15'48} 27°\tag{28'53} 0°\tag{7} 7°\tag{06'02} 13°\tag{45'29}	0.54655 AU -6°00'04 5°59'19 21°06'53 1°06'32 1°06'18
min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node	16011 Jan 25 19:00 16011 Jan 30 19:45 16011 Jan 31 09:17 16011 Feb 02 15:22 16011 Feb 03 00:03 16011 Feb 11 07:13 16011 Feb 13 13:44 16011 Feb 21 18:02 16011 Feb 23 15:30 16011 Feb 24 17:09 16011 Mar 13 02:31 16011 Mar 14 11:17 16011 Mar 21 01:15 16011 Mar 21 03:31 16011 Mar 26 06:55 16011 Mar 27 07:20	2° ₩30′28 30° R≈ 29° ≈39′42 28° ≈16′14 28° ≈02′48 24° ≈14′43 24° ≈00′58 27° ≈14′00 28° ≈54′24 0° ₩ 27° ₩14′14 0° Υ 13° Υ 14′09 13° Υ 25′17 23° Υ 18′31 25° Υ 12′09 0° ℧ 1° ℧ 53′14	-5°17'14 5°14'59 19°43'18 0°43'22 0°42'53	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.	16011 Dec 19 06:51 16012 Jan 01 07:16 16012 Jan 05 06:39 16012 Jan 12 15:56 16012 Jan 13 14:25 16012 Jan 13 16:38 16012 Jan 22 03:50 16012 Jan 25 04:05 16012 Feb 05 20:22 16012 Feb 08 15:24 16012 Feb 19 12:26 16012 Feb 25 11:10 16012 Mar 03 19:22 16012 Mar 03 21:55 16012 Mar 05 03:23 16012 Mar 08 16:29	6°≈36'50 13°≈03'23 12°≈28'57 9°≈05'45 8°≈33'53 8°≈30'45 4°≈45'16 4°≈24'25 10°≈02'31 13°≈01'57 0° \tag{11°\tag{55'45}} 27°\tag{15'48} 27°\tag{28'53} 0°\tag{7} 7°\tag{06'02} 13°\tag{45'29} 14°\tag{44'38}	0.54655 AU -6°00'04 5°59'19 21°06'53 1°06'32 1°06'18
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.	16011 Jan 25 19:00 16011 Jan 30 19:45 16011 Jan 31 09:17 16011 Feb 02 15:22 16011 Feb 03 00:03 16011 Feb 11 07:13 16011 Feb 21 18:02 16011 Feb 23 15:30 16011 Feb 24 17:09 16011 Mar 13 02:31 16011 Mar 21 01:15 16011 Mar 21 03:31 16011 Mar 26 06:55 16011 Mar 27 07:20 16011 Mar 29 22:29	2° ₩30′28 30° R≈ 29° ≈39′42 28° ≈16′14 28° ≈02′48 24° ≈14′43 24° ≈00′58 27° ≈14′00 28° ≈54′24 0° ₩ 27° ₩14′14 0° Ψ 13° Ψ25′17 23° Ψ18′31 25° Ψ12′09 0° ₩ 1° ₩53′14 0° Ш	-5°17'14 5°14'59 19°43'18 0°43'22 0°42'53 1.37498 AU	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. desc. node	16011 Dec 19 06:51 16012 Jan 01 07:16 16012 Jan 05 06:39 16012 Jan 12 15:56 16012 Jan 13 14:25 16012 Jan 13 16:38 16012 Jan 22 03:50 16012 Jan 25 04:05 16012 Feb 05 20:22 16012 Feb 08 15:24 16012 Feb 19 12:26 16012 Feb 25 11:10 16012 Mar 03 19:22 16012 Mar 03 21:55 16012 Mar 05 03:23 16012 Mar 08 16:29 16012 Mar 12 03:34	6°≈36'50 13°≈03'23 12°≈28'57 9°≈05'45 8°≈33'53 8°≈30'45 4°≈45'16 4°≈24'25 10°≈02'31 13°≈01'57 0° H 11° H 54'45 27° H 28'53 0° Y 7° Y 06'02 13° Y 45'29 14° Y 44'38 0° ႘	0.54655 AU -6°00'04 5°59'19 21°06'53 1°06'32 1°06'18
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	16011 Jan 25 19:00 16011 Jan 30 19:45 16011 Jan 31 09:17 16011 Feb 02 15:22 16011 Feb 03 00:03 16011 Feb 11 07:13 16011 Feb 21 18:02 16011 Feb 23 15:30 16011 Feb 24 17:09 16011 Mar 13 02:31 16011 Mar 14 11:17 16011 Mar 21 01:15 16011 Mar 21 03:31 16011 Mar 21 03:31 16011 Mar 27 07:20 16011 Mar 29 22:29 16011 Mar 30 23:52 16011 Apr 17 11:12 16011 May 05 10:28	2° ₩30′28 30° R≈ 29° ≈39′42 28° ≈16′14 28° ≈02′48 24° ≈14′43 24° ≈00′58 27° ≈14′00 28° ≈54′24 0° ₩ 27° ₩14′14 0° Ψ 13° Ψ25′17 23° Ψ18′31 25° Ψ12′09 0° ₩ 1° ₩53′14 0° Ⅲ 22° Ⅲ34′25	-5°17'14 5°14'59 19°43'18 0°43'22 0°42'53 1.37498 AU	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. desc. node evening rise	16011 Dec 19 06:51 16012 Jan 01 07:16 16012 Jan 05 06:39 16012 Jan 12 15:56 16012 Jan 13 14:25 16012 Jan 13 16:38 16012 Jan 22 03:50 16012 Jan 25 04:05 16012 Feb 05 20:22 16012 Feb 08 15:24 16012 Feb 19 12:26 16012 Feb 25 11:10 16012 Mar 03 19:22 16012 Mar 03 21:55 16012 Mar 05 03:23 16012 Mar 12 03:34 16012 Mar 12 16:10 16012 Mar 21 07:21 16012 Apr 11 03:13	6°≈36'50 13°≈03'23 12°≈28'57 9°≈05'45 8°≈33'53 8°≈30'45 4°≈45'16 4°≈24'25 10°≈02'31 13°≈01'57 0°₩ 11°₩54'45 27°₩15'48 27°₩28'53 0°Ψ 7°Ψ06'02 13°Ψ45'29 14°Ψ44'38 0°₩ 0°Ⅲ	0.54655 AU -6°00'04 5°59'19 21°06'53 1°06'32 1°06'18 1.35351 AU
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	16011 Jan 25 19:00 16011 Jan 30 19:45 16011 Jan 30 19:45 16011 Jan 31 09:17 16011 Feb 02 15:22 16011 Feb 03 00:03 16011 Feb 11 07:13 16011 Feb 21 18:02 16011 Feb 23 15:30 16011 Feb 24 17:09 16011 Mar 13 02:31 16011 Mar 14 11:17 16011 Mar 21 01:15 16011 Mar 21 03:31 16011 Mar 26 06:55 16011 Mar 27 07:20 16011 Mar 30 23:52 16011 Mar 30 23:52 16011 Apr 17 11:12 16011 May 05 10:28 16011 May 17 13:58	2° \cdot 30'28 30° \cdot 8\infty 29° \times 39'42 28° \times 16'14 28° \times 02'48 24° \times 14'43 24° \times 00'58 27° \times 14'00 28° \times 54'24 0° \cdot \times 7'14'09 13° \cdot 714'09 13° \cdot 718'31 25° \cdot 712'09 0° \times 10° \times 53'14 0° \times 120° \times 137'20	-5°17'14 5°14'59 19°43'18 0°43'22 0°42'53 1.37498 AU	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el	16011 Dec 19 06:51 16012 Jan 01 07:16 16012 Jan 05 06:39 16012 Jan 12 15:56 16012 Jan 13 14:25 16012 Jan 13 16:38 16012 Jan 22 03:50 16012 Jan 25 04:05 16012 Feb 05 20:22 16012 Feb 08 15:24 16012 Feb 19 12:26 16012 Feb 25 11:10 16012 Mar 03 19:22 16012 Mar 03 21:55 16012 Mar 05 03:23 16012 Mar 08 16:29 16012 Mar 12 03:34 16012 Mar 12 16:10 16012 Mar 21 07:21 16012 Apr 11 03:13 16012 Apr 17 00:01	6°≈36'50 13°≈03'23 12°≈28'57 9°≈05'45 8°≈33'53 8°≈30'45 4°≈45'16 4°≈24'25 10°≈02'31 13°≈01'57 0°₩ 11°₩54'45 27°₩15'48 27°₩28'53 0°Ψ 7°Ψ06'02 13°Ψ45'29 14°Ψ44'38 0°₩ 0°Ⅲ 6°Ⅲ23'24	0.54655 AU -6°00'04 5°59'19 21°06'53 1°06'32 1°06'18
min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node	16011 Jan 25 19:00 16011 Jan 30 19:45 16011 Jan 31 09:17 16011 Feb 02 15:22 16011 Feb 03 00:03 16011 Feb 11 07:13 16011 Feb 21 18:02 16011 Feb 23 15:30 16011 Feb 24 17:09 16011 Mar 13 02:31 16011 Mar 14 11:17 16011 Mar 21 01:15 16011 Mar 21 03:31 16011 Mar 26 06:55 16011 Mar 27 07:20 16011 Mar 29 22:29 16011 Mar 30 23:52 16011 Apr 17 11:12 16011 May 05 10:28 16011 May 17 13:58 16011 May 20 15:22	2° ₩30′28 30° R≈ 29° ≈39′42 28° ≈16′14 28° ≈02′48 24° ≈14′43 24° ≈00′58 27° ≈14′00 28° ≈54′24 0° ₩ 27° ₩14′14 0° Ψ 13° Ψ25′17 23° Ψ18′31 25° Ψ12′09 0° ₩ 1° ₩53′14 0° Ⅲ 22° Ⅲ34′25 29° Ⅲ37′20 28° Ⅲ58′39	-5°17'14 5°14'59 19°43'18 0°43'22 0°42'53 1.37498 AU	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde	16011 Dec 19 06:51 16012 Jan 01 07:16 16012 Jan 05 06:39 16012 Jan 12 15:56 16012 Jan 13 14:25 16012 Jan 13 16:38 16012 Jan 22 03:50 16012 Jan 25 04:05 16012 Feb 05 20:22 16012 Feb 08 15:24 16012 Feb 19 12:26 16012 Feb 25 11:10 16012 Mar 03 19:22 16012 Mar 03 21:55 16012 Mar 05 03:23 16012 Mar 08 16:29 16012 Mar 12 03:34 16012 Mar 21 07:21 16012 Apr 11 03:13 16012 Apr 17 00:01 16012 Apr 29 23:13	6°≈36'50 13°≈03'23 12°≈28'57 9°≈05'45 8°≈33'53 8°≈30'45 4°≈45'16 4°≈24'25 10°≈02'31 13°≈01'57 0°₩ 11°₩54'45 27°₩15'48 27°₩28'53 0°Ψ 7°Ψ06'02 13°Ψ45'29 14°Ψ44'38 0°℧ 0°Π 6°Π23'24 13°Π47'00	0.54655 AU -6°00'04 5°59'19 21°06'53 1°06'32 1°06'18 1.35351 AU
min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set	16011 Jan 25 19:00 16011 Jan 30 19:45 16011 Jan 31 09:17 16011 Feb 02 15:22 16011 Feb 03 00:03 16011 Feb 11 07:13 16011 Feb 13 13:44 16011 Feb 21 18:02 16011 Feb 23 15:30 16011 Feb 24 17:09 16011 Mar 13 02:31 16011 Mar 14 11:17 16011 Mar 21 01:15 16011 Mar 21 03:31 16011 Mar 26 06:55 16011 Mar 27 07:20 16011 Mar 29 22:29 16011 Mar 30 23:52 16011 Apr 17 11:12 16011 May 05 10:28 16011 May 17 13:58 16011 May 20 15:22 16011 May 23 11:05	2° ₩30′28 30° R≈ 29°≈39′42 28°≈16′14 28°≈02′48 24°≈14′43 24°≈00′58 27°≈14′00 28°≈54′24 0° ₩ 27° ₩14′14 0° Ψ 13° Ψ25′17 23° Ψ18′31 25° Ψ12′09 0° ₩ 1° ₩53′14 0° Ш 22° Щ34′25 29° Щ37′20 28° Щ58′39 27° ∭09′30	-5°17'14 5°14'59 19°43'18 0°43'22 0°42'53 1.37498 AU 25°17'08	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	16011 Dec 19 06:51 16012 Jan 01 07:16 16012 Jan 05 06:39 16012 Jan 12 15:56 16012 Jan 13 14:25 16012 Jan 13 16:38 16012 Jan 22 03:50 16012 Jan 25 04:05 16012 Feb 05 20:22 16012 Feb 08 15:24 16012 Feb 19 12:26 16012 Feb 25 11:10 16012 Mar 03 19:22 16012 Mar 03 21:55 16012 Mar 05 03:23 16012 Mar 08 16:29 16012 Mar 12 03:34 16012 Mar 12 16:10 16012 Apr 17 00:01 16012 Apr 29 23:13 16012 May 06 06:22	6°≈36'50 13°≈03'23 12°≈28'57 9°≈05'45 8°≈33'53 8°≈30'45 4°≈45'16 4°≈24'25 10°≈02'31 13°≈01'57 0° € 11° € 54'45 27° € 15'48 27° € 28'53 0° ♥ 7° ♥ 06'02 13° ♥ 45'29 14° ♥ 44'38 0° ₺ 0° ₺ 6° № 1 6° № 23'24 13° № 14'700 11° ₺ 14'31	0.54655 AU -6°00'04 5°59'19 21°06'53 1°06'32 1°06'18 1.35351 AU
min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist.	16011 Jan 25 19:00 16011 Jan 30 19:45 16011 Jan 30 19:45 16011 Jan 31 09:17 16011 Feb 02 15:22 16011 Feb 13 00:03 16011 Feb 13 13:44 16011 Feb 21 18:02 16011 Feb 23 15:30 16011 Feb 24 17:09 16011 Mar 13 02:31 16011 Mar 14 11:17 16011 Mar 21 01:15 16011 Mar 20 06:55 16011 Mar 27 07:20 16011 Mar 29 22:29 16011 Mar 30 23:52 16011 Mar 17 11:12 16011 May 05 10:28 16011 May 17 13:58 16011 May 20 15:22 16011 May 23 11:05 16011 May 27 18:58	2° ₩30′28 30° R≈ 29° ≈39′42 28° ≈16′14 28° ≈02′48 24° ≈14′43 24° ≈00′58 27° ≈14′00 28° ≈54′24 0° ₩ 27° ₩14′14 0° Ŷ 13° Ŷ14′09 13° Ŷ25′17 23° Ŷ18′31 25° Ŷ12′09 0° ℧ 1° ℧53′14 0° Ⅲ 22° Ⅲ34′25 29° Ⅲ37′20 28° Ⅲ58′39 27° Ⅲ09′30 22° Ⅲ21′31	-5°17'14 5°14'59 19°43'18 0°43'22 0°42'53 1.37498 AU 25°17'08	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	16011 Dec 19 06:51 16012 Jan 01 07:16 16012 Jan 05 06:39 16012 Jan 12 15:56 16012 Jan 13 14:25 16012 Jan 13 16:38 16012 Jan 22 03:50 16012 Jan 25 04:05 16012 Feb 05 20:22 16012 Feb 08 15:24 16012 Feb 19 12:26 16012 Feb 25 11:10 16012 Mar 03 19:22 16012 Mar 03 21:55 16012 Mar 03 21:55 16012 Mar 04 16:29 16012 Mar 12 03:34 16012 Mar 12 16:10 16012 Mar 21 07:21 16012 Apr 17 00:01 16012 Apr 29 23:13 16012 May 06 06:22 16012 May 06 06:22 16012 May 06 12:33	6°≈36'50 13°≈03'23 12°≈28'57 9°≈05'45 8°≈33'53 8°≈30'45 4°≈45'16 4°≈24'25 10°≈02'31 13°≈01'57 0° \tau 11°\tau5'48 27°\tau28'53 0°\tau 7°\tau6'02 13°\tau4'38 0°\tau 6°\tau23'24 13°\tau4'00 11°\tau14'31 11°\tau1'37	0.54655 AU -6°00'04 5°59'19 21°06'53 1°06'32 1°06'18 1.35351 AU 26°24'09
min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set	16011 Jan 25 19:00 16011 Jan 30 19:45 16011 Jan 31 09:17 16011 Feb 02 15:22 16011 Feb 03 00:03 16011 Feb 11 07:13 16011 Feb 13 13:44 16011 Feb 21 18:02 16011 Feb 23 15:30 16011 Feb 24 17:09 16011 Mar 13 02:31 16011 Mar 14 11:17 16011 Mar 21 01:15 16011 Mar 21 03:31 16011 Mar 26 06:55 16011 Mar 27 07:20 16011 Mar 29 22:29 16011 Mar 30 23:52 16011 Apr 17 11:12 16011 May 05 10:28 16011 May 17 13:58 16011 May 20 15:22 16011 May 23 11:05	2° ₩30′28 30° R≈ 29°≈39′42 28°≈16′14 28°≈02′48 24°≈14′43 24°≈00′58 27°≈14′00 28°≈54′24 0° ₩ 27° ₩14′14 0° Ψ 13° Ψ25′17 23° Ψ18′31 25° Ψ12′09 0° ₩ 1° ₩53′14 0° Ш 22° Щ34′25 29° Щ37′20 28° Щ58′39 27° ∭09′30	-5°17'14 5°14'59 19°43'18 0°43'22 0°42'53 1.37498 AU 25°17'08	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	16011 Dec 19 06:51 16012 Jan 01 07:16 16012 Jan 05 06:39 16012 Jan 12 15:56 16012 Jan 13 14:25 16012 Jan 13 16:38 16012 Jan 22 03:50 16012 Jan 25 04:05 16012 Feb 05 20:22 16012 Feb 08 15:24 16012 Feb 19 12:26 16012 Feb 25 11:10 16012 Mar 03 19:22 16012 Mar 03 21:55 16012 Mar 05 03:23 16012 Mar 08 16:29 16012 Mar 12 03:34 16012 Mar 12 16:10 16012 Apr 17 00:01 16012 Apr 29 23:13 16012 May 06 06:22	6°≈36'50 13°≈03'23 12°≈28'57 9°≈05'45 8°≈33'53 8°≈30'45 4°≈45'16 4°≈24'25 10°≈02'31 13°≈01'57 0° € 11° € 54'45 27° € 15'48 27° € 28'53 0° ♥ 7° ♥ 06'02 13° ♥ 45'29 14° ♥ 44'38 0° ₺ 0° ₺ 6° № 1 6° № 23'24 13° № 14'700 11° ₺ 14'31	0.54655 AU -6°00'04 5°59'19 21°06'53 1°06'32 1°06'18 1.35351 AU

minimum elong	16012 May 12 02:34	4° Ⅱ 52'20	1°37'49	minimum elong	16013 Apr 25 22:20	18° 8 43'46	0°46'27
g	16012 May 16 15:45	30°R 8	13, 13	morning rise	16013 May 02 05:02	13° 8 11'13	0 .027
morning rise	16012 May 17 23:44	29° 8 04'00		direct	16013 May 04 23:02	12° 8 31'00	
direct	16012 May 21 03:14	28° 8 08'21		morning max el	16013 May 11 06:18	15° 8 46'48	17°57'54
	16012 May 25 19:10	0°II		Ü	16013 May 21 16:14	0°II	
morning max el	16012 May 27 14:42	1° Ⅱ 34'13	18°26'53	desc. node	16013 May 26 01:22	7° Ⅱ 05'45	
desc. node	16012 Jun 08 04:26	17° Ⅱ 04'39		morning set	16013 May 29 06:05	12° Ⅱ 20′25	
	16012 Jun 16 10:32	0°©		Č	16013 Jun 09 03:19	0°©	
morning set	16012 Jun 17 05:18	1° © 13'59					
				superior conj	16013 Jun 12 13:06	5° 5 24'52	-1°53'02
superior conj	16012 Jul 02 23:44	25°956'49	-2°11'58	minimum elong	16013 Jun 12 04:40	4°951'29	1°53'08
minimum elong	16012 Jul 02 20:04	25° © 42'35	2°12'36	max. Earth dist.	16013 Jun 16 02:15	10° © 59'45	1.45728 AU
max. Earth dist.	16012 Jul 03 06:08	26° © 21'48	1.45995 AU		16013 Jun 28 08:49	$0^{\circ}\Omega$	
	16012 Jul 05 14:09	$0^{\circ}\Omega$		evening rise	16013 Jun 28 14:43	0° £ 22′36	
evening rise	16012 Jul 18 20:40	20° Ω 46′04		greatest brilliancy	16013 Jul 12 07:12	21° Ω 03'09	-0.6m
	16012 Jul 24 17:41	0° m)		_	16013 Jul 18 16:25	0° m)	
greatest brilliancy	16012 Jul 27 17:32	4° m/39'42	-0.8m	asc. node	16013 Jul 20 08:53	2° m/09'10	
asc. node	16012 Aug 02 12:08	13° Mp 20'22	10045122	evening max el	16013 Jul 24 01:04	6° Mp 17'30	19°35'27
evening max el	16012 Aug 09 17:41	22° My 24'50	18°47'32	retrograde	16013 Jul 31 07:08	10° M) 20'37	
retrograde	16012 Aug 16 09:11	26° Mp 01'42		evening set	16013 Aug 04 00:50	8° m 59'43	2057122
evening set	16012 Aug 19 16:53 16012 Aug 25 06:55	24° Mp 58'26	2°32'39	inferior conj	16013 Aug 09 09:19 16013 Aug 09 10:43	3° M) 04'47	2°56'22 2°55'46
inferior conj minimum elong	16012 Aug 25 00:33 16012 Aug 25 09:02	19° Mp 16'18 19° Mp 09'40	2°31'57	minimum elong min. Earth dist.	16013 Aug 10 14:19	3° Mp 00'07 1° Mp 28'26	0.67639 AU
min. Earth dist.	16012 Aug 27 01:57	19 110940 17° 110940	0.66211 AU	iiiii. Earui uist.	16013 Aug 10 14:19	1 11,028 20 30°R Ω	0.07039 AU
morning rise	16012 Aug 31 00:12	12° m 50'09	0.00211 AC	morning rise	16013 Aug 14 20:03	26° Ω 38'34	
desc. node	16012 Sep 04 02:11	10° m ₂ 30'48		direct	16013 Aug 20 16:13	24°Ω06'27	
direct	16012 Sep 04 02:11 16012 Sep 06 06:18	10° m) 12'41		desc. node	16013 Aug 21 23:34	24° Ω 13'11	
morning max el	16012 Sep 19 07:18	17° Mp 56'21	26°32'17	desc. node	16013 Aug 31 09:30	0° m)	
morning man vi	16012 Sep 29 11:05	0° ⊽	20 32 17	morning max el	16013 Sep 01 18:17	1° Mp 20'20	25°15'09
	16012 Oct 18 21:57	0° M .		<i>5</i>	16013 Sep 23 11:07	0∘ ⊽	
morning set	16012 Oct 25 03:33	11°ML18'46		morning set	16013 Oct 07 14:59	23° £ 31'01	
max. Earth dist.	16012 Oct 29 01:44	18°ML53'35	1.34372 AU	max. Earth dist.	16013 Oct 11 03:50	29° ≏ 58'15	1.36486 AU
asc. node	16012 Oct 29 13:32	19°ML52'04			16013 Oct 11 04:12	0°M₊	
				asc. node	16013 Oct 16 10:15	10°ML02'57	
superior conj	16012 Nov 03 01:40	29°ML02'01	0°40'17				
minimum elong	16012 Nov 02 23:41	28°M51'45	0°40'34	superior conj	16013 Oct 17 15:27	12°M27'07	0°11'01
	16012 Nov 03 12:49	0° ∡ 7		minimum elong	16013 Oct 17 14:46	12°M23'40	0°11'20
evening rise	16012 Nov 10 11:02	14° ∡ ³36′05		behind sun begin	16013 Oct 17 10:10	12°M00'55	
	16012 Nov 18 04:54	0°ਰ		behind sun end	16013 Oct 17 19:21	12°M46'27	
evening max el	16012 Nov 29 22:35	16° ප් 45'39	21°09'27	evening rise	16013 Oct 25 16:56	28°M47'56	
desc. node	16012 Nov 30 23:40	17° 3 44'53			16013 Oct 26 07:07	0° ⊼ ¹	
retrograde	16012 Dec 11 17:15	22° る 35'25		evening max el	16013 Nov 12 03:46	27° ₹ 36'04	19°49'59
evening set	16012 Dec 14 11:08	22°る17'47 18°る27'00	5944100	4 4-	16013 Nov 14 22:17	0°궁 1° 궁 42'41	
inferior conj	16012 Dec 23 05:14 16012 Dec 22 22:22	18°る2/00 18°る36'42		desc. node	16013 Nov 17 20:47	1°542'41 2° る 39'59	
minimum elong min. Earth dist.	16012 Dec 22 22:22 16012 Dec 23 21:25	18°る04'05	0.54413 AU	retrograde evening set	16013 Nov 22 07:23 16013 Nov 24 08:25	2 03939 2°る28'38	
morning rise	16012 Dec 31 09:51	18 80403 14° 8 35'44	0.54413 AU	evening set	16013 Nov 24 08:23	2 02030 30°R⊀	
direct	16013 Jan 04 11:33	13°る59'56		inferior conj	16013 Dec 03 02:15	28° ₹ 28'11	-4°32'08
morning max el	16013 Jan 17 11:28	13 3 3930 20° る 19'34	22°49'38	minimum elong	16013 Dec 03 02:15	28° x 43'36	
morning man vi	16013 Jan 25 11:18	0°≈	22 ., 30	min. Earth dist.	16013 Dec 05 04:28	27°×10'51	0.55113 AU
asc. node	16013 Jan 25 12:41	0° ≈ 05'03		morning rise	16013 Dec 10 22:43	24° х 15'43	
morning set	16013 Feb 08 22:28	26° ≈ 38'37		direct	16013 Dec 16 01:07	23° ∡ 18'31	
C	16013 Feb 10 12:06	0° ∀			16013 Dec 29 15:24	0°ರ	
				morning max el	16013 Dec 29 19:53	0° ට 10'35	24°39'34
superior conj	16013 Feb 15 21:25	11°) 36′56	1°23'17	asc. node	16014 Jan 12 09:55	18° ප 05'16	
minimum elong	16013 Feb 15 23:31	11° ¥ 48′11	1°23'23		16014 Jan 18 22:56	0° ≈	
max. Earth dist.	16013 Feb 19 08:21	18° ¥ 54'19	1.33549 AU	morning set	16014 Jan 24 10:24	11° ≈ 19'58	
evening rise	16013 Feb 23 22:13	28° ₩ 08'56					
	1 CO 1 2 E 1 2 4 2 1 0 2	$0^{\circ}\Upsilon$		superior conj	16014 Jan 31 04:43	26° ≈ 09'44	1°33'43
	16013 Feb 24 21:02						
desc. node	16013 Feb 27 00:12	4° Y 03'43		minimum elong	16014 Jan 31 05:58	26°≈16'37	1°34'08
	16013 Feb 27 00:12 16013 Mar 14 12:37	0° 8		_	16014 Feb 01 22:51	0° ∺	
evening max el	16013 Feb 27 00:12 16013 Mar 14 12:37 16013 Mar 30 13:38	0° と 19° と 58'37	27°12'42	max. Earth dist.	16014 Feb 01 22:51 16014 Feb 02 07:59	0° ∺ 0° ∺ 49'36	1°34'08 1.32191 AU
evening max el retrograde	16013 Feb 27 00:12 16013 Mar 14 12:37 16013 Mar 30 13:38 16013 Apr 13 02:30	0° ප් 19° ප් 58'37 27° ප් 30'33	27°12'42	max. Earth dist.	16014 Feb 01 22:51 16014 Feb 02 07:59 16014 Feb 07 14:43	0°) 0°) (49'36 11°) (57'35	
evening max el retrograde evening set	16013 Feb 27 00:12 16013 Mar 14 12:37 16013 Mar 30 13:38 16013 Apr 13 02:30 16013 Apr 19 17:24	0°8 19°858'37 27°830'33 24°859'52	27°12'42	max. Earth dist.	16014 Feb 01 22:51 16014 Feb 02 07:59 16014 Feb 07 14:43 16014 Feb 13 20:52	0°¥ 0°¥49'36 11°¥57'35 24°¥08'10	
evening max el retrograde evening set asc. node	16013 Feb 27 00:12 16013 Mar 14 12:37 16013 Mar 30 13:38 16013 Apr 13 02:30 16013 Apr 19 17:24 16013 Apr 23 09:48	0°8 19°858'37 27°830'33 24°859'52 21°832'25		max. Earth dist.	16014 Feb 01 22:51 16014 Feb 02 07:59 16014 Feb 07 14:43 16014 Feb 13 20:52 16014 Feb 17 03:01	0°₩ 0°₩49'36 11°₩57'35 24°₩08'10 0°Ψ	
evening max el retrograde evening set	16013 Feb 27 00:12 16013 Mar 14 12:37 16013 Mar 30 13:38 16013 Apr 13 02:30 16013 Apr 19 17:24	0°8 19°858'37 27°830'33 24°859'52	27°12'42 0.65219 AU 0°47'27	max. Earth dist.	16014 Feb 01 22:51 16014 Feb 02 07:59 16014 Feb 07 14:43 16014 Feb 13 20:52	0°¥ 0°¥49'36 11°¥57'35 24°¥08'10	1.32191 AU

. 1	1601434 26 22 22	100 420142			1601536 16 04 45	20° Ƴ 55'51	
retrograde	16014 Mar 26 22:33	10° 8 38'42		evening set	16015 Mar 16 04:45		
evening set	16014 Apr 02 17:48	8° 8 16'50		min. Earth dist.	16015 Mar 20 00:05	18° Y ′06′14	0.61040 AU
min. Earth dist.	16014 Apr 06 12:18	5° 8 05'22	0.63239 AU	inferior conj	16015 Mar 23 03:58	15° Y 18'40	
inferior conj	16014 Apr 09 08:30	2° 8 14'19		minimum elong	16015 Mar 23 07:29	15° Y 10′51	1°35'35
minimum elong	16014 Apr 09 09:05	2° 8 12'52	0°18'04	asc. node	16015 Mar 28 04:27	11° Y 26'31	
asc. node	16014 Apr 10 07:06	1° 8 18'02		morning rise	16015 Mar 30 13:32	10° Y 23′30	
	16014 Apr 11 16:06	30° ŖƳ		direct	16015 Apr 01 16:39	10° Ƴ 04'22	
morning rise	16014 Apr 16 02:59	27° Y '00'39		morning max el	16015 Apr 08 16:20	13° Y 34'40	17°52'55
direct	16014 Apr 18 12:43	26° Ƴ 32'42			16015 Apr 19 21:19	9° 8	
morning max el	16014 Apr 24 23:54	29° Y 50'07	17°46'23	morning set	16015 Apr 24 07:39	7° 8 56'18	
-	16014 Apr 25 03:56	8° 0		desc. node	16015 Apr 29 19:01	17° 8 47'01	
morning set	16014 May 11 08:46	24° 8 40'31					
desc. node	16014 May 12 22:15	27° 8 21'40		superior conj	16015 May 05 03:13	27° 8 08'27	-0°42'42
acco. noac	16014 May 14 11:10	0°II		minimum elong	16015 May 04 23:24	26° 8 52'01	0°42'42
	10014 Way 14 11.10	υ д		minimum ciong	16015 May 04 25:24 16015 May 06 19:20	0°Ⅱ	0 42 42
superior conj	16014 May 23 20:27	15° Ⅱ 44'32	1°20'35	max. Earth dist.	16015 May 12 11:55	9° Ⅱ 29'31	1.43136 AU
	•		1°20'22		-	19° ∏ 41'17	1.43130 AU
minimum elong	16014 May 23 13:00			evening rise	16015 May 18 20:39		
max. Earth dist.	16014 May 29 21:00	25° Ⅱ 28'02	1.44741 AU		16015 May 25 13:21	0° ©	
	16014 Jun 01 17:48	0°€			16015 Jun 16 04:20	0° Ω	
evening rise	16014 Jun 08 01:18	9° 5 47'43		evening max el	16015 Jun 19 22:09	4°Ω05'34	21°51'44
	16014 Jun 21 13:29	0 $^{\circ}\Omega$		asc. node	16015 Jun 24 02:36	7° Ω 38'47	
evening max el	16014 Jul 07 02:32	20° Ω 12'01	20°37'52	retrograde	16015 Jun 29 04:28	9° Ω 29'47	
asc. node	16014 Jul 07 05:42	20° Ω 19'51		evening set	16015 Jul 03 20:02	7° Ω 33'56	
retrograde	16014 Jul 15 06:08	24° Ω 52′08		inferior conj	16015 Jul 09 01:47	1° Ω 17'07	3°07'13
evening set	16014 Jul 19 10:31	23° £ 13′20		minimum elong	16015 Jul 09 01:18	1° Ω 18'46	3°06'31
inferior conj	16014 Jul 24 16:20	17° Ω 06'44	3°07'24	min. Earth dist.	16015 Jul 09 03:42	1° Ω 10′25	0.69088 AU
minimum elong	16014 Jul 24 16:49	17° Ω 05'05	3°06'49		16015 Jul 09 23:58	30° ₹ 5	
min. Earth dist.	16014 Jul 25 07:35	16° Ω 14'13	0.68607 AU	morning rise	16015 Jul 14 06:24	25°900'57	
morning rise	16014 Jul 29 22:49	10° Ω 44'21		direct	16015 Jul 19 02:41	22° © 57'24	
direct	16014 Aug 04 07:23	8° Ω 24'16		desc. node	16015 Jul 26 18:14	26°945'03	
desc. node	16014 Aug 08 20:55	9° Ω 46'19		morning max el	16015 Jul 28 17:57	28°937'25	22°19'07
morning max el	16014 Aug 15 05:12	14° Ω 54'49	23°47'45	morning max or	16015 Jul 30 01:44	0° Ω	22 17 07
morning max ci	16014 Aug 27 13:35	0° m)	23 47 43		16015 Aug 21 05:18	0° m)	
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. ,	16014 Sep 16 08:59	0° 亞		morning set	16015 Aug 30 23:24 16015 Sep 05 04:00	15° Mp 14'08	1 41007 ATT
morning set	16014 Sep 19 06:47	4° ≏ 52'07		max. Earth dist.	16015 Sep 05 04:00	23° Mp 46'21	1.41237 AU
E 4 E 4	-	11000000	1 20067 411		-	-•	
max. Earth dist.	16014 Sep 23 02:36	11° ≏ 28'32	1.38867 AU		16015 Sep 08 19:55	0∘ ⊽	
	16014 Sep 23 02:36				16015 Sep 08 19:55	0° ق	
superior conj	16014 Sep 23 02:36 16014 Sep 30 16:23	25° £ 16'13	-0°23'06	superior conj	16015 Sep 08 19:55 16015 Sep 13 00:10	0° ჲ 7° ჲ 19'07	-0°59'48
superior conj minimum elong	16014 Sep 23 02:36 16014 Sep 30 16:23 16014 Sep 30 18:02	25° £ 16'13 25° £ 23'59	-0°23'06	superior conj minimum elong	16015 Sep 08 19:55 16015 Sep 13 00:10 16015 Sep 13 04:58	0° ჲ 7° ჲ 19'07 7° ჲ 40'30	-0°59'48
superior conj	16014 Sep 23 02:36 16014 Sep 30 16:23 16014 Sep 30 18:02 16014 Oct 03 06:57	25° Ω 16'13 25° Ω 23'59 0° ™ 13'50	-0°23'06	superior conj minimum elong asc. node	16015 Sep 08 19:55 16015 Sep 13 00:10 16015 Sep 13 04:58 16015 Sep 20 03:37	0° ഫ 7° ഫ 19'07 7° ഫ 40'30 20° ഫ 20'48	-0°59'48
superior conj minimum elong	16014 Sep 23 02:36 16014 Sep 30 16:23 16014 Sep 30 18:02	25° £ 16'13 25° £ 23'59	-0°23'06	superior conj minimum elong	16015 Sep 08 19:55 16015 Sep 13 00:10 16015 Sep 13 04:58	0° ჲ 7° ჲ 19'07 7° ჲ 40'30	-0°59'48
superior conj minimum elong	16014 Sep 23 02:36 16014 Sep 30 16:23 16014 Sep 30 18:02 16014 Oct 03 06:57	25° Ω 16'13 25° Ω 23'59 0° ™ 13'50	-0°23'06	superior conj minimum elong asc. node	16015 Sep 08 19:55 16015 Sep 13 00:10 16015 Sep 13 04:58 16015 Sep 20 03:37	0° ഫ 7° ഫ 19'07 7° ഫ 40'30 20° ഫ 20'48	-0°59'48
superior conj minimum elong asc. node	16014 Sep 23 02:36 16014 Sep 30 16:23 16014 Sep 30 18:02 16014 Oct 03 06:57 16014 Oct 03 04:04	25° № 16'13 25° № 23'59 0° № 13'50 0° № 12° № 43'11	-0°23'06	superior conj minimum elong asc. node	16015 Sep 08 19:55 16015 Sep 13 00:10 16015 Sep 13 04:58 16015 Sep 20 03:37 16015 Sep 23 07:07	0° ჲ 7° ჲ 19'07 7° ჲ 40'30 20° ჲ 20'48 26° ჲ 13'09	-0°59'48 0°59'02
superior conj minimum elong asc. node	16014 Sep 23 02:36 16014 Sep 30 16:23 16014 Sep 30 18:02 16014 Oct 03 06:57 16014 Oct 03 04:04 16014 Oct 09 16:44	25° № 16'13 25° № 23'59 0° № 13'50 0° № 12° № 43'11	-0°23'06	superior conj minimum elong asc. node evening rise	16015 Sep 08 19:55 16015 Sep 13 00:10 16015 Sep 13 04:58 16015 Sep 20 03:37 16015 Sep 23 07:07 16015 Sep 25 07:46	0° £ 7° £ 19'07 7° £ 40'30 20° £ 20'48 26° £ 13'09 0° M	-0°59'48 0°59'02
superior conj minimum elong asc. node evening rise	16014 Sep 23 02:36 16014 Sep 30 16:23 16014 Sep 30 18:02 16014 Oct 03 06:57 16014 Oct 03 04:04 16014 Oct 09 16:44 16014 Oct 19 01:15	25° № 16'13 25° № 23'59 0° № 13'50 0° № 12° № 43'11	-0°23'06 0°22'33	superior conj minimum elong asc. node evening rise evening max el	16015 Sep 08 19:55 16015 Sep 13 00:10 16015 Sep 13 04:58 16015 Sep 20 03:37 16015 Sep 23 07:07 16015 Sep 25 07:46 16015 Oct 09 04:52	0° Ω 7° Ω 19'07 7° Ω 40'30 20° Ω 20'48 26° Ω 13'09 0° M 21° M 41'45	-0°59'48 0°59'02
superior conj minimum elong asc. node evening rise evening max el	16014 Sep 23 02:36 16014 Sep 30 16:23 16014 Sep 30 18:02 16014 Oct 03 06:57 16014 Oct 03 04:04 16014 Oct 09 16:44 16014 Oct 19 01:15 16014 Oct 25 22:59	25° № 16'13 25° № 23'59 0° № 13'50 0° № 12° № 43'11 0° № 9° № 16'33	-0°23'06 0°22'33	superior conj minimum elong asc. node evening rise evening max el retrograde	16015 Sep 08 19:55 16015 Sep 13 00:10 16015 Sep 13 04:58 16015 Sep 20 03:37 16015 Sep 23 07:07 16015 Sep 25 07:46 16015 Oct 09 04:52 16015 Oct 16 15:29	0° № 7° № 19'07 7° № 40'30 20° № 20'48 26° № 13'09 0° № 21° № 41'45 25° № 29'27	-0°59'48 0°59'02
superior conj minimum elong asc. node evening rise evening max el retrograde	16014 Sep 23 02:36 16014 Sep 30 16:23 16014 Sep 30 18:02 16014 Oct 03 06:57 16014 Oct 03 04:04 16014 Oct 09 16:44 16014 Oct 19 01:15 16014 Oct 25 22:59 16014 Nov 03 13:41	25° № 16'13 25° № 23'59 0° № 13'50 0° № 12° № 43'11 0° № 9° № 16'33 13° № 37'18	-0°23'06 0°22'33	superior conj minimum elong asc. node evening rise evening max el retrograde evening set	16015 Sep 08 19:55 16015 Sep 13 00:10 16015 Sep 13 04:58 16015 Sep 20 03:37 16015 Sep 23 07:07 16015 Sep 25 07:46 16015 Oct 09 04:52 16015 Oct 16 15:29 16015 Oct 18 16:58	0° Ω 7° Ω 19'07 7° Ω 40'30 20° Ω 20'48 26° Ω 13'09 0° M 21° M 41'45 25° M 29'27 25° M 12'37	-0°59'48 0°59'02 18°17'17
superior conj minimum elong asc. node evening rise evening max el retrograde desc. node	16014 Sep 23 02:36 16014 Sep 30 16:23 16014 Sep 30 18:02 16014 Oct 03 06:57 16014 Oct 03 04:04 16014 Oct 09 16:44 16014 Oct 19 01:15 16014 Oct 25 22:59 16014 Nov 03 13:41 16014 Nov 04 17:57	25° △ 16'13 25° △ 23'59 0° M .13'50 0° M . 12° M .43'11 0° ⋄ 16'33 13° ⋄ 37'18 13° ⋄ 32'41	-0°23'06 0°22'33	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node	16015 Sep 08 19:55 16015 Sep 13 00:10 16015 Sep 13 04:58 16015 Sep 20 03:37 16015 Sep 23 07:07 16015 Sep 25 07:46 16015 Oct 09 04:52 16015 Oct 16 15:29 16015 Oct 18 16:58 16015 Oct 22 15:11	0° Ω 7° Ω 19'07 7° Ω 40'30 20° Ω 20'48 26° Ω 13'09 0° M 21° M 41'45 25° M 29'27 25° M 12'37 23° M 18'38	-0°59'48 0°59'02 18°17'17
superior conj minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj	16014 Sep 23 02:36 16014 Sep 30 16:23 16014 Sep 30 18:02 16014 Oct 03 06:57 16014 Oct 03 04:04 16014 Oct 09 16:44 16014 Oct 19 01:15 16014 Oct 25 22:59 16014 Nov 03 13:41 16014 Nov 04 17:57 16014 Nov 05 11:09 16014 Nov 13 17:05	25° № 16'13 25° № 23'59 0° № 13'50 0° № 12° № 43'11 0° ৵ 9° ৵ 16'33 13° ৵ 37'18 13° ৵ 32'41 13° ৵ 25'29 9° ৵ 06'03	-0°23'06 0°22'33	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong	16015 Sep 08 19:55 16015 Sep 13 00:10 16015 Sep 13 04:58 16015 Sep 20 03:37 16015 Sep 23 07:07 16015 Sep 25 07:46 16015 Oct 09 04:52 16015 Oct 16 15:29 16015 Oct 18 16:58 16015 Oct 22 15:11 16015 Oct 26 05:47	0° № 7° № 19'07 7° № 40'30 20° № 20'48 26° № 13'09 0° M. 21° M.41'45 25° M.29'27 25° M.12'37 23° M.18'38 20° M.31'54 20° M.37'20	-0°59'48 0°59'02 18°17'17 -1°09'36 1°07'59
superior conj minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong	16014 Sep 23 02:36 16014 Sep 30 16:23 16014 Sep 30 18:02 16014 Oct 03 06:57 16014 Oct 09 16:44 16014 Oct 19 01:15 16014 Oct 25 22:59 16014 Nov 03 13:41 16014 Nov 04 17:57 16014 Nov 05 11:09 16014 Nov 13 17:05 16014 Nov 13 10:05	25° № 16'13 25° № 23'59 0° № 13'50 0° № 12° № 43'11 0° ※ 9° ※ 16'33 13° ※ 33'18 13° ※ 32'41 13° ※ 25'29 9° ※ 106'03 9° ※ 18'32	-0°23'06 0°22'33 18°52'41 -2°51'12 2°47'49	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist.	16015 Sep 08 19:55 16015 Sep 13 00:10 16015 Sep 13 04:58 16015 Sep 20 03:37 16015 Sep 23 07:07 16015 Sep 25 07:46 16015 Oct 09 04:52 16015 Oct 16 15:29 16015 Oct 18 16:58 16015 Oct 22 15:11 16015 Oct 26 05:47 16015 Oct 26 03:11 16015 Oct 29 11:55	0° № 7° № 19'07 7° № 40'30 20° № 20'48 26° № 13'09 0° № 21° № 41'45 25° № 29'27 23° № 18'38 20° № 31'54 20° № 37'20 17° № 50'03	-0°59'48 0°59'02 18°17'17 -1°09'36
superior conj minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist.	16014 Sep 23 02:36 16014 Sep 30 16:23 16014 Sep 30 18:02 16014 Oct 03 06:57 16014 Oct 09 16:44 16014 Oct 19 01:15 16014 Oct 25 22:59 16014 Nov 03 13:41 16014 Nov 04 17:57 16014 Nov 05 11:09 16014 Nov 13 17:05 16014 Nov 13 10:05 16014 Nov 16 16:15	25° ♣ 16'13 25° ♣ 23'59 0° M 13'50 0° M 12° M 43'11 0° ♂ 9° ♂ 16'33 13° ♂ 37'18 13° ♂ 32'41 13° ♂ 25'29 9° ♂ 06'03 9° ♂ 18'32 6° ♂ 59'49	-0°23'06 0°22'33 18°52'41 -2°51'12	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	16015 Sep 08 19:55 16015 Sep 13 00:10 16015 Sep 13 04:58 16015 Sep 20 03:37 16015 Sep 23 07:07 16015 Sep 25 07:46 16015 Oct 09 04:52 16015 Oct 16 15:29 16015 Oct 18 16:58 16015 Oct 26 05:47 16015 Oct 26 03:11 16015 Oct 29 11:55 16015 Nov 02 09:56	0° № 7° № 19'07 7° № 40'30 20° № 20'48 26° № 13'09 0° № 21° № 41'45 25° № 29'27 25° № 12'37 23° № 18'38 20° № 31'54 20° № 37'20 17° № 50'03 15° № 08'03	-0°59'48 0°59'02 18°17'17 -1°09'36 1°07'59
superior conj minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise	16014 Sep 23 02:36 16014 Sep 30 16:23 16014 Sep 30 18:02 16014 Oct 03 06:57 16014 Oct 09 16:44 16014 Oct 19 01:15 16014 Oct 25 22:59 16014 Nov 03 13:41 16014 Nov 04 17:57 16014 Nov 05 11:09 16014 Nov 13 17:05 16014 Nov 13 10:05 16014 Nov 16 16:15 16014 Nov 21 06:07	25° ♣16'13 25° ♣23'59 0° № 13'50 0° № 12° № 43'11 0° Ӣ 9° Ӣ 16'33 13° Ӣ 37'18 13° Ӣ 32'41 13° Ӣ 25'29 9° Ӣ 06'03 9° Ӣ 18'32 6° Ӣ 59'49 4° Ӣ 18'50	-0°23'06 0°22'33 18°52'41 -2°51'12 2°47'49	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	16015 Sep 08 19:55 16015 Sep 13 00:10 16015 Sep 13 04:58 16015 Sep 20 03:37 16015 Sep 23 07:07 16015 Sep 25 07:46 16015 Oct 09 04:52 16015 Oct 16 15:29 16015 Oct 18 16:58 16015 Oct 26 05:47 16015 Oct 26 03:11 16015 Oct 29 11:55 16015 Nov 02 09:56 16015 Nov 08 19:41	0° № 7° № 19'07 7° № 40'30 20° № 220'48 26° № 13'09 0° № 21° № 41'45 25° № 29'27 25° № 12'37 23° № 18'38 20° № 31'54 20° № 37'20 17° № 50'03 15° № 08'03 13° № 18'48	-0°59'48 0°59'02 18°17'17 -1°09'36 1°07'59 0.58651 AU
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superior conj minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	16014 Sep 23 02:36 16014 Sep 30 16:23 16014 Sep 30 18:02 16014 Oct 03 06:57 16014 Oct 09 16:44 16014 Oct 19 01:15 16014 Oct 25 22:59 16014 Nov 03 13:41 16014 Nov 04 17:57 16014 Nov 13 17:05 16014 Nov 13 10:05 16014 Nov 16 16:15 16014 Nov 21 06:07 16014 Nov 27 03:25 16014 Dec 11 07:17 16014 Dec 26 08:18 16014 Dec 30 07:04 16015 Jan 10 18:26	25° ♣16'13 25° ♣23'59 0° № 13'50 0° № 12° № 43'11 0° ৵ 9° ৵ 16'33 13° ৵ 32'41 13° ৵ 25'29 9° ৵ 06'03 9° ৵ 18'32 6° ৵ 59'49 4° ৵ 18'50 2° ৵ 56'19 10° ৵ 13'56 0° ♂ 6° ♂ 48'22 25° ♂ 54'15 0° ≈ 10° ≈ 48'06 10° ≈ 49'18	-0°23'06 0°22'33 18°52'41 -2°51'12 2°47'49 0.56615 AU 26°17'49	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 superior conj minimum elong	16015 Sep 08 19:55 16015 Sep 13 00:10 16015 Sep 13 04:58 16015 Sep 20 03:37 16015 Sep 23 07:07 16015 Sep 25 07:46 16015 Oct 09 04:52 16015 Oct 16 15:29 16015 Oct 26 05:47 16015 Oct 26 03:11 16015 Oct 26 03:11 16015 Oct 29 11:55 16015 Nov 02 09:56 16015 Nov 08 19:41 16015 Nov 03 02:43 16015 Dec 17 04:10 16015 Dec 19 05:08 16015 Dec 31 02:32 16015 Dec 31 02:32 16015 Dec 31 01:43 16015 Dec 30 21:10	0° № 7° № 19'07 7° № 40'30 20° № 220'48 26° № 13'09 0° № 21° № 41'45 25° № 12'37 23° № 18'38 20° № 31'54 20° № 37'20 17° № 50'03 13° № 18'48 20° № 57'39 0° ※ 26° ※ 03'09 0° % 10° ♂ 16'53 25° ♂ 22'08 24° ♂ 56'40	-0°59'48 0°59'02 18°17'17 -1°09'36 1°07'59 0.58651 AU 27°26'55
superior conj minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	16014 Sep 23 02:36 16014 Sep 30 16:23 16014 Sep 30 18:02 16014 Oct 03 06:57 16014 Oct 09 16:44 16014 Oct 19 01:15 16014 Oct 25 22:59 16014 Nov 03 13:41 16014 Nov 04 17:57 16014 Nov 13 17:05 16014 Nov 13 10:05 16014 Nov 16 16:15 16014 Nov 21 06:07 16014 Nov 27 03:25 16014 Dec 11 07:17 16014 Dec 26 08:18 16014 Dec 30 07:04 16015 Jan 08 21:15 16015 Jan 15 15:03 16015 Jan 15 15:03 16015 Jan 15 15:16	25° ₾16'13 25° ₾23'59 0° M.13'50 0° M. 12° M.43'11 0° ¾ 9° ¾ 16'33 13° ¾ 37'18 13° ¾ 32'41 13° ¾ 25'29 9° ¾ 06'03 9° ¾ 18'32 6° ¾ 59'49 4° ¾ 18'50 2° ¾ 56'19 10° ¾ 13'56 0° ♂ 6° ♂ 48'22 25° ♂ 54'15 0° ≈ 10° ≈ 48'06 10° ≈ 49'18 12° ≈ 52'32	-0°23'06 0°22'33 18°52'41 -2°51'12 2°47'49 0.56615 AU 26°17'49	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 superior conj minimum elong max. Earth dist.	16015 Sep 08 19:55 16015 Sep 13 00:10 16015 Sep 13 04:58 16015 Sep 20 03:37 16015 Sep 23 07:07 16015 Sep 25 07:46 16015 Oct 09 04:52 16015 Oct 16 15:29 16015 Oct 26 05:47 16015 Oct 26 03:11 16015 Oct 26 03:11 16015 Oct 29 11:55 16015 Nov 02 09:56 16015 Nov 08 19:41 16015 Nov 08 19:41 16015 Dec 17 04:10 16015 Dec 17 04:10 16015 Dec 24 05:15 16015 Dec 31 02:32 16015 Dec 31 02:32 16015 Dec 30 21:10 16016 Jan 02 03:21	0° № 7° № 19'07 7° № 40'30 20° № 20'48 26° № 13'09 0° M. 21° M.41'45 25° M.29'27 25° M.12'37 23° M.18'38 20° M.31'54 20° M.37'20 17° M.50'03 15° M.08'03 13° M.18'48 20° M.57'39 0° ¾ 26° ¾ 03'09 0° ♂ 10° ♂ 16'53 25° ♂ 26'46 25° ♂ 22'08 24° ♂ 56'40 0° ≈	-0°59'48 0°59'02 18°17'17 -1°09'36 1°07'59 0.58651 AU 27°26'55
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superior conj minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	16014 Sep 23 02:36 16014 Sep 30 16:23 16014 Sep 30 18:02 16014 Oct 03 06:57 16014 Oct 09 16:44 16014 Oct 19 01:15 16014 Oct 25 22:59 16014 Nov 03 13:41 16014 Nov 04 17:57 16014 Nov 13 17:05 16014 Nov 13 10:05 16014 Nov 16 16:15 16014 Nov 21 06:07 16014 Nov 27 03:25 16014 Dec 11 07:17 16014 Dec 26 08:18 16014 Dec 30 07:04 16015 Jan 08 21:15 16015 Jan 15 15:03 16015 Jan 15 15:03 16015 Jan 16 13:23 16015 Jan 22 14:58 16015 Jan 22 14:58	25° ₾16'13 25° ₾23'59 0° M.13'50 0° M. 12° M.43'11 0° ¾ 9° ¾16'33 13° ¾37'18 13° ¾25'29 9° ¾06'03 9° ¾18'32 6° ¾59'49 4° ¾18'50 2° ¾56'19 10° ¾13'56 0° ♂ 6° ♂48'22 25° ♂54'15 0° ≈ 10° ≈49'18 12° ≈52'32 26° ≈03'56 0° ℃	-0°23'06 0°22'33 18°52'41 -2°51'12 2°47'49 0.56615 AU 26°17'49	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 superior conj minimum elong max. Earth dist. evening rise	16015 Sep 08 19:55 16015 Sep 13 00:10 16015 Sep 13 04:58 16015 Sep 20 03:37 16015 Sep 23 07:07 16015 Sep 25 07:46 16015 Oct 09 04:52 16015 Oct 16 15:29 16015 Oct 18 16:58 16015 Oct 26 05:47 16015 Oct 26 03:11 16015 Oct 29 11:55 16015 Nov 02 09:56 16015 Nov 08 19:41 16015 Nov 03 02:43 16015 Dec 17 04:10 16015 Dec 19 05:08 16015 Dec 24 05:15 16015 Dec 31 02:32 16015 Dec 31 01:43 16015 Dec 30 21:10 16016 Jan 06 20:41 16016 Jan 06 20:41 16016 Jan 06 20:41 16016 Jan 06 20:41	0° № 7° № 19'07 7° № 40'30 20° № 20'48 26° № 13'09 0° M. 21° M.41'45 25° M.29'27 25° M.12'37 23° M.18'38 20° M.31'54 20° M.37'20 17° M.50'03 15° M.08'03 13° M.18'48 20° M.57'39 0° ¾ 26° ¾ 03'09 0° ♂ 10° ♂ 16'53 25° ♂ 26'46 25° ♂ 22'08 24° ♂ 56'40 0° ≈ 10° ≈ 22'35 0° ₭	-0°59'48 0°59'02 18°17'17 -1°09'36 1°07'59 0.58651 AU 27°26'55
superior conj minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	16014 Sep 23 02:36 16014 Sep 30 16:23 16014 Sep 30 18:02 16014 Oct 03 06:57 16014 Oct 03 04:04 16014 Oct 19 01:15 16014 Oct 25 22:59 16014 Nov 03 13:41 16014 Nov 04 17:57 16014 Nov 13 17:05 16014 Nov 13 17:05 16014 Nov 13 10:05 16014 Nov 14 16:15 16014 Nov 15 11:09 16014 Nov 16 16:15 16014 Nov 17 10:09 16014 Nov 18 10:05 16014 Nov 19 10:05 16014 Nov 19 10:05 16015 Jan 10 18:26 16015 Jan 15 15:03 16015 Jan 15 15:16 16015 Jan 16 13:23 16015 Jan 22 14:58 16015 Jan 24 12:28 16015 Jan 24 12:28	25° ♣16'13 25° ♣23'59 0° M.13'50 0° M. 12° M.43'11 0° ♂ 9° ♂16'33 13° ♂32'41 13° ♂25'29 9° ♂06'03 9° ♂18'32 6° ♂59'49 4° ♂18'50 2° ♂56'19 10° ♂13'56 0° ♂ 6° ♂48'22 25° ♂54'15 0° ≈ 10° ≈48'06 10° ≈49'18 12° ≈52'32 26° ≈03'56 0° 升 13° 升52'50	-0°23'06 0°22'33 18°52'41 -2°51'12 2°47'49 0.56615 AU 26°17'49	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 superior conj minimum elong max. Earth dist. evening rise desc. node	16015 Sep 08 19:55 16015 Sep 13 00:10 16015 Sep 13 04:58 16015 Sep 20 03:37 16015 Sep 23 07:07 16015 Sep 25 07:46 16015 Oct 09 04:52 16015 Oct 16 15:29 16015 Oct 18 16:58 16015 Oct 26 05:47 16015 Oct 26 05:47 16015 Oct 29 11:55 16015 Nov 02 09:56 16015 Nov 08 19:41 16015 Nov 03 02:43 16015 Dec 17 04:10 16015 Dec 19 05:08 16015 Dec 24 05:15 16015 Dec 31 02:32 16015 Dec 31 01:43 16015 Dec 30 21:10 16016 Jan 02 03:21 16016 Jan 06 20:41 16016 Jan 16 18:54 16016 Jan 16 18:54	0° № 7° № 19'07 7° № 40'30 20° № 20'48 26° № 13'09 0° M. 21° M.41'45 25° M.29'27 25° M.12'37 23° M.18'38 20° M.31'54 20° M.37'20 17° M.50'03 15° M.08'03 13° M.18'48 20° M.57'39 0° ¾ 26° ¾ 03'09 0° ♂ 10° ♂ 16'53 25° ♂ 26'46 25° ♂ 22'08 24° ♂ 56'40 0° ≈ 10° ≈ 22'35 0° 升 3° 升 10'11	-0°59'48 0°59'02 18°17'17 -1°09'36 1°07'59 0.58651 AU 27°26'55 1°36'14 1°36'55 1.30998 AU
superior conj minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	16014 Sep 23 02:36 16014 Sep 30 16:23 16014 Oct 03 06:57 16014 Oct 03 04:04 16014 Oct 09 16:44 16014 Oct 19 01:15 16014 Oct 25 22:59 16014 Nov 03 13:41 16014 Nov 04 17:57 16014 Nov 13 17:05 16014 Nov 13 17:05 16014 Nov 13 10:05 16014 Nov 16 16:15 16014 Nov 27 03:25 16014 Dec 11 07:17 16014 Dec 26 08:18 16014 Dec 30 07:04 16015 Jan 08 21:15 16015 Jan 15 15:03 16015 Jan 15 15:16 16015 Jan 16 13:23 16015 Jan 22 14:58 16015 Jan 24 12:28 16015 Jan 31 17:33 16015 Feb 10 14:47	25° ♣16'13 25° ♣23'59 0° M.13'50 0° M. 12° M.43'11 0° ♂ 9° ♂16'33 13° ♂32'41 13° ♂25'29 9° ♂06'03 9° ♂18'32 6° ♂59'49 4° ♂18'50 2° ♂56'19 10° ♂13'56 0° ♂ 6° ♂48'22 25° ♂54'15 0° ≈ 10° ≈49'18 12° ≈52'32 26° ≈03'56 0° 升 13° 升52'50 0° ↑	-0°23'06 0°22'33 18°52'41 -2°51'12 2°47'49 0.56615 AU 26°17'49 1°38'00 1°38'37 1.31332 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 asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	16015 Sep 08 19:55 16015 Sep 13 00:10 16015 Sep 20 03:37 16015 Sep 23 07:07 16015 Sep 25 07:46 16015 Oct 09 04:52 16015 Oct 16 15:29 16015 Oct 26 05:47 16015 Oct 26 05:47 16015 Oct 26 03:11 16015 Oct 29 11:55 16015 Nov 02 09:56 16015 Nov 03 02:43 16015 Nov 30 23:26 16015 Dec 17 04:10 16015 Dec 19 05:08 16015 Dec 24 05:15 16015 Dec 31 02:32 16015 Dec 31 01:43 16015 Dec 30 21:10 16016 Jan 06 20:41 16016 Jan 06 20:41 16016 Jan 16 18:54 16016 Jan 18 14:17 16016 Feb 05 11:49	0° № 7° № 19'07 7° № 40'30 20° № 20'48 26° № 13'09 0° M 21° M 41'45 25° M 29'27 25° M 12'37 23° M 18'38 20° M 37'20 17° M 50'03 15° M 08'03 13° M 18'48 20° M 57'39 0° ♂ 26° ♂ 03'09 0° ♂ 10° ♂ 16'53 25° ♂ 26'46 25° ♂ 22'08 24° ♂ 56'40 0° ≈ 10° ≈ 22'35 0° 升 3° 升 10'11 27° 升 20'18	-0°59'48 0°59'02 18°17'17 -1°09'36 1°07'59 0.58651 AU 27°26'55 1°36'14 1°36'55 1.30998 AU

ovening set	16016 Eab 25 22:05	2° Ƴ 49'11			16017 Jan 10 01:52	0° \	
evening set	16016 Feb 25 23:05	2 γ 49 11 0° Υ 10'56	0.5070C AII			8° ∺ 08'32	25925117
min. Earth dist.	16016 Mar 01 01:33		0.58796 AU	evening max el	16017 Jan 17 05:12		25-25-17
	16016 Mar 01 07:26	30° ₹	2005145	retrograde	16017 Jan 31 02:29	15°) €07'24	
inferior conj	16016 Mar 04 06:15	27°) (43'46		evening set	16017 Feb 05 21:02	13°) ₹51'33	
minimum elong	16016 Mar 04 13:20	27°) € 30'07	3°03'03	min. Earth dist.	16017 Feb 10 17:54	11° ∺ 10′03	0.56754 AU
morning rise	16016 Mar 12 07:07	23° 米 09'40		inferior conj	16017 Feb 13 12:06	9° ∺ 19'49	-4°34'13
direct	16016 Mar 14 06:22	22° 升 55′52		minimum elong	16017 Feb 13 21:28	9° ∺ 04'10	4°31'15
asc. node	16016 Mar 14 01:48	22° ∺ 55'59		morning rise	16017 Feb 22 00:44	5° ₩ 07'00	
morning max el	16016 Mar 22 04:02	26°) 50′31	18°18'44	direct	16017 Feb 24 01:44	4°) 54'40	
	16016 Mar 24 22:58	$0^{\circ}\mathbf{Y}$		asc. node	16017 Feb 28 23:12	6° ₩ 10'16	
morning set	16016 Apr 06 21:10	21° Y ′51'19		morning max el	16017 Mar 05 06:42	9°) €24'40	19°05'47
morning sec	16016 Apr 11 04:27	0°8			16017 Mar 18 16:35	0°Υ	1, 00 .,
desc. node	•	8° 8 17'56		marning got	16017 Mar 18 10:33	6° Υ 11'37	
desc. Hode	16016 Apr 15 15:45	8 O 17 30		morning set	1001/ Wai 21 20.42	0 1113/	
superior conj	16016 Apr 16 08:01	9° 8 32'00	0°05'30	superior conj	16017 Mar 30 06:36	22° Y '42'39	0°27'07
	16016 Apr 16 07:34	9° 8 29'55	0°06'00	minimum elong	16017 Mar 30 08:14	22°Υ′50'29	0°26'37
minimum elong		_	0 0000				0 2037
behind sun begin	16016 Apr 16 00:40	8° 8 58'35		desc. node	16017 Apr 02 12:26	28° Y ′50′11	
behind sun end	16016 Apr 16 14:27	10° 8 01'11			16017 Apr 03 03:30	0°8	
max. Earth dist.	16016 Apr 23 21:44	22° 8 51'12	1.41084 AU	max. Earth dist.	16017 Apr 06 03:59	5° 8 29'37	1.38811 AU
evening rise	16016 Apr 28 11:01	0° Ⅱ 26'57		evening rise	16017 Apr 09 22:42	12° 8 07'44	
	16016 Apr 28 04:26	$\Pi^{\circ}0$			16017 Apr 20 22:17	$\Pi^{\circ}0$	
	16016 May 17 23:45	0 \circ \odot			16017 May 13 06:57	0 \circ \odot	
evening max el	16016 Jun 01 13:36	17° © 59'13	23°12'17	evening max el	16017 May 15 03:17	1° 9 54'07	24°33'20
asc. node	16016 Jun 09 23:35	23°9549'53		retrograde	16017 May 26 17:25	8°9540'29	
retrograde	16016 Jun 12 00:39	24°907'54		asc. node	16017 May 27 20:40	8°935'01	
•					•		
evening set	16016 Jun 17 03:45	21°957'07	205621	evening set	16017 Jun 01 08:00	6°9517'54	0.60500 477
inferior conj	16016 Jun 22 11:42	15° © 32'12		min. Earth dist.	16017 Jun 05 20:12	1° © 08'31	0.68580 AU
minimum elong	16016 Jun 22 10:23	15° © 36'47	2°55'35	inferior conj	16017 Jun 06 20:13	29° Ⅱ 48'05	2°35'20
min. Earth dist.	16016 Jun 22 00:37	16° © 10'35	0.69077 AU	minimum elong	16017 Jun 06 18:16	29° Ⅱ 54'37	2°34'09
morning rise	16016 Jun 27 16:58	9° 5 23'48			16017 Jun 06 16:40	30°RⅡ	
direct	16016 Jul 02 01:02	7° 9 39'14		morning rise	16017 Jun 12 04:41	23° Ⅱ 48'45	
morning max el	16016 Jul 10 11:16	12° 5 29'18	20°56'49	direct	16017 Jun 16 01:05	22° Ⅲ 23'51	
desc. node	16016 Jul 12 15:29	14°9347'51		morning max el	16017 Jun 23 11:17	26° Ⅲ 31'35	19°46'27
	16016 Jul 24 06:01	$\Omega^{\circ}\Omega$		Č	16017 Jun 26 15:21	0°9	
morning set	16016 Aug 09 17:08	24° Ω 38'45		desc. node	16017 Jun 29 12:40	3° © 37'59	
morning sec	16016 Aug 13 03:03	0° m)		dese. Hode	16017 Jul 17 14:06	0°Ω	
max. Earth dist.	16016 Aug 17 11:11		1.43321 AU	morning set	16017 Jul 19 21:32	3° Ω 32'05	
max. Earm dist.	10010 Aug 1/ 11.11	0 11/3018	1.43321 AU	•		20°Ω51'09	1 44007 411
aumariar aani	16016 Aug 24 10:33	100 mm 26147	1925100	max. Earth dist.	16017 Jul 31 00:41	20-8631-09	1.44897 AU
superior conj	Č	18° Mp 26'47			16017 A 04 21-20	200 027	2002117
minimum elong	16016 Aug 24 18:03	18° m 58'23	1°34'21	superior conj	16017 Aug 04 21:28	28° Ω 36'37	
	16016 Aug 31 03:58	0∘ ⊽		minimum elong	16017 Aug 05 04:24	29° Ω 04'30	2°02'18
evening rise	16016 Sep 05 07:44	9° ഫ 06'35			16017 Aug 05 18:10	0° m)	
asc. node	16016 Sep 06 00:16	10° ≏ 20'04		evening rise	16017 Aug 18 13:23	21° Mp 10'35	
	16016 Sep 17 19:47	0° M ₊		asc. node	16017 Aug 23 20:57	0° ჲ 07'38	
evening max el	16016 Sep 21 17:15	4° ጤ 41'58	18°02'10		16017 Aug 23 19:07	0∘ ত	
retrograde	16016 Sep 28 10:03	8° M ₀09'20		evening max el	16017 Sep 05 08:10	18° ≏ 07'38	18°05'52
evening set	16016 Sep 30 18:50	7°M43'23		retrograde	16017 Sep 11 17:11	21° ≏ 28′02	
inferior conj	16016 Oct 07 14:42	2°M42'43	0°17'03	evening set	16017 Sep 14 10:28	20° ₽ 49'30	
minimum elong	16016 Oct 07 15:14	2°M41'24	0°17'11	inferior conj	16017 Sep 20 16:01	15° £ 31'00	1°24'05
desc. node	16016 Oct 08 12:32	1°M49'54	· ·	minimum elong	16017 Sep 20 18:03	15° ≏ 25'26	1°23'31
dese. Hode	16016 Oct 10 10:33	30°R Ω		min. Earth dist.	16017 Sep 23 08:14	13° ⊆ 23′20 12° ⊆ 37'31	0.63186 AU
min. Earth dist.	16016 Oct 10 10.33	30 K== 29° Ω 44'49	0.60932 AU	desc. node	16017 Sep 25 08:14 16017 Sep 25 09:55	12 ≥ 3/31 10° ₽ 36'00	0.03100 AU
			0.00932 AU		-		
morning rise	16016 Oct 14 08:37	26° ₽ 49'26		morning rise	16017 Sep 26 23:31	9° ₾ 18'18	
direct	16016 Oct 21 00:29	24° ≏ 36'33		direct	16017 Oct 03 15:24	6° ≏ 49'02	
	16016 Nov 01 12:38	0° M		morning max el	16017 Oct 17 14:11	14° ≏ 47'48	27°49'39
morning max el	16016 Nov 04 05:50	2° ™ 30'07	27°57'40		16017 Oct 29 23:54	0° M ₊	
	16016 Nov 24 10:39	0° ∡ 7			16017 Nov 17 01:36	0° ∡ 7	
asc. node	16016 Dec 03 01:11	15° ∡ ¹40'19		asc. node	16017 Nov 19 22:07	5° ∡ ³33'26	
morning set	16016 Dec 07 08:20	24° ∡ *21'59		morning set	16017 Nov 21 04:18	8° ∡ 04'38	
Ü	16016 Dec 10 00:03	5°0		max. Earth dist.	16017 Nov 26 04:30	18° ∡ ³31'12	1.32011 AU
max. Earth dist.	16016 Dec 13 03:26	6° る 52'03	1.31218 AU				
Durin dist.	10010 1000 10 00.20	0 00200	1.5.210.110	superior conj	16017 Nov 28 21:12	24° ∡ '21'32	1°14'34
superior con:	16016 Dec 14 13:13	9° る 59'31	1°28'26	minimum elong	16017 Nov 28 21:12 16017 Nov 28 18:56	24° x *21'32 24° x *09'09	1°15'02
superior conj				minimum elong			1 13 02
minimum elong	16016 Dec 14 11:30	9° る 50'00	1°29'04		16017 Dec 01 10:52	0°る	
evening rise	16016 Dec 21 05:48	24° る 47'50		evening rise	16017 Dec 05 16:32	9° ප 15'46	
	16016 Dec 23 16:26	0° ≈			16017 Dec 16 04:54	0° ≈	
desc. node	16017 Jan 04 11:06	21° ≈ 49′12		desc. node	16017 Dec 22 08:00	9° ≈ 36′08	

evening max el	16017 Dec 29 15:53	18° ≈ 15'56	23°46'42	evening max el	16018 Dec 11 02:50	28° る 12'37	22°03'46
retrograde	16017 Dec 29 13:33 16018 Jan 12 03:00	24°≈56'11	23 40 42	evening max er	16018 Dec 11 02:30	28 ⊘ 12 37	22 03 40
evening set	16018 Jan 16 20:09	24°≈08'05		retrograde	16018 Dec 23 15:46	0 ∞ 4°≈24'39	
min. Earth dist.	16018 Jan 23 03:17	21°≈05'46	0.55215 AU	evening set	16018 Dec 27 02:04	3°≈58'32	
inferior conj	16018 Jan 24 21:07	20°≈03'59		inferior conj	16019 Jan 04 14:59	0°≈07'23	6°01'00
minimum elong	16018 Jan 25 03:50	20 ≈ 03 39 19° ≈ 54'01	5°40'00	minimum elong	16019 Jan 04 13:06	0°≈10'02	
morning rise	16018 Feb 02 13:06	16°≈08'49	3 40 00	min. Earth dist.	16019 Jan 04 08:43	0°≈16'08	0.54443 AU
direct	16018 Feb 05 01:50	15°≈52'51		iiiii. Lattii dist.	16019 Jan 04 20:16	0 ∞1008 30°R る	0.34443 AO
asc. node	16018 Feb 15 20:33	21°≈06'29		morning rise	16019 Jan 13 00:59	26°る20'08	
morning max el	16018 Feb 15 20:11	21°≈05'36	20°15'57	direct	16019 Jan 16 11:55	20 3 20 08 25° 3 53'43	
morning max er	16018 Feb 22 21:22	0° ∺	20 13 37	direct	16019 Jan 26 16:39	25 O 55 45 0° ≈	
morning set	16018 Mar 06 02:49	20° ¥ 47'15		morning max el	16019 Jan 28 18:34	0 ∞ 1°≈49'47	21°48'41
morning set	16018 Mar 10 14:17	20 γ (4/13		asc. node	16019 Feb 02 17:50	7°≈28'38	21 40 41
	10018 Mai 10 14.17	0 1		asc. node		/ ≈2838 0° H	
gumariar agni	16010 Mar 12 10:40	6° Y ′28'35	0°53'59	marning sat	16019 Feb 15 21:07 16019 Feb 18 12:53	5°) 30'35	
superior conj	16018 Mar 13 18:40	6° Υ 41'06		morning set	10019 Feb 18 12.33	3 X3033	
minimum elong	16018 Mar 13 21:10	17° Υ 35'43	0°53'35		16010 E-k 25 16:22	200 1 20152	1014126
max. Earth dist.	16018 Mar 19 10:57		1.36561 AU	superior conj	16019 Feb 25 16:32	20°) (39'53	1°14'26
desc. node	16018 Mar 20 09:05	19° Υ 20'12		minimum elong	16019 Feb 25 18:57	20°\(\frac{1}{2}52'35	1°14'19
evening rise	16018 Mar 23 05:35	24° Y 36'24		max. Earth dist.	16019 Mar 01 23:06	29°) €27'35	1.34541 AU
	16018 Mar 26 06:15	0° X			16019 Mar 02 05:34	0°Υ 5° 00 43330	
	16018 Apr 14 12:48	0°II		evening rise	16019 Mar 06 04:12	7° Y 43′20	
evening max el	16018 Apr 27 16:55	15° Ⅱ 47'42	25°47'33	desc. node	16019 Mar 07 05:43	9° Ƴ 44'18	
retrograde	16018 May 10 05:32	23° Ⅱ 00'27			16019 Mar 18 21:39	0°8	
asc. node	16018 May 14 17:49	21° Ⅲ 38′27		evening max el	16019 Apr 10 06:46	29° 8 33'05	26°47'29
evening set	16018 May 16 07:03	20° Ⅱ 30'17			16019 Apr 10 17:57	0°П	
min. Earth dist.	16018 May 20 12:13	15° Ⅱ 57'23	0.67618 AU	retrograde	16019 Apr 23 12:10	7° Ⅱ 00'43	
inferior conj	16018 May 22 01:15	13° Ⅱ 59'55	2°03'06	evening set	16019 Apr 29 23:05	4°∏28'12	
minimum elong	16018 May 21 23:04	14° Ⅱ 06′52	2°01'45	asc. node	16019 May 01 15:00	2° ∏ 59'18	
morning rise	16018 May 27 15:40	8° Ⅱ 11′02		min. Earth dist.	16019 May 03 22:37	0°Щ30′00	0.66215 AU
direct	16018 May 31 01:10	7° Ⅱ 05'05			16019 May 04 08:58	30° ₹ 8	
morning max el	16018 Jun 06 18:29	10° Ⅱ 42'15	18°51'11	inferior conj	16019 May 06 00:38	28° 8 02'56	1°18'51
desc. node	16018 Jun 16 09:45	23° Ⅲ 02'37		minimum elong	16019 May 05 22:48	28° 8 08'19	1°17'37
greatest brilliancy	16018 Jun 20 08:13	28° Ⅱ 55'47	-0.8m	morning rise	16019 May 11 23:48	22° 8 26'12	
	16018 Jun 21 01:05	0		direct	16019 May 14 23:14	21° 8 37'19	
morning set	16018 Jun 29 07:47	12° 5 346'19		morning max el	16019 May 21 07:45	24° 8 57'02	18°12'30
	16018 Jul 10 09:51	$0 {\circ} \Omega$			16019 May 25 15:31	Π $^{\circ}0$	
max. Earth dist.	16018 Jul 13 19:06	5° Ω 16'49	1.45809 AU	desc. node	16019 Jun 03 06:44	12° ∏ 52'49	
				morning set	16019 Jun 09 16:44	23° Ⅲ 07'51	
superior conj	16018 Jul 15 12:51	8° \O 00'03	-2°14'09		16019 Jun 13 23:53	0 \circ ∞	
minimum elong	16018 Jul 15 13:47	8° Ω 03'41	2°14'49				
	16018 Jul 29 10:02	0° m y		superior conj	16019 Jun 24 21:59	17° © 13'34	-2°06'05
evening rise	16018 Jul 30 19:09	2° Mp 13'01		minimum elong	16019 Jun 24 15:35	16°5548'30	2°06'31
asc. node	16018 Aug 10 17:39	19° ™ 37'37		max. Earth dist.	16019 Jun 26 15:50	19° © 56'54	1.45977 AU
	16018 Aug 18 05:35	0∘ ⊽			16019 Jul 03 02:52	$0 {\circ} \Omega$	
evening max el	16018 Aug 19 22:09	1° ≏ 48'48	18°27'24	evening rise	16019 Jul 11 00:25	12° Ω 15'39	
retrograde	16018 Aug 26 08:38	5° ≏ 15'43		greatest brilliancy	16019 Jul 22 02:13	29° Ω 18'34	-0.7m
evening set	16018 Aug 29 11:01	4° ₽ 21'50			16019 Jul 22 13:14	0° m ∕	
	16018 Sep 03 05:15	30°₽,₩		asc. node	16019 Jul 28 14:22	8° ₯ 43'53	
inferior conj	16018 Sep 04 05:42	28° m 47'42	2°12'23	evening max el	16019 Aug 03 08:27	15° m 38'41	19°05'56
minimum elong	16018 Sep 04 08:00	28° Mp 40'45	2°11'40	retrograde	16019 Aug 10 05:07	19° ™ 25'13	
min. Earth dist.	16018 Sep 06 08:41	26° Mp 15'30	0.65208 AU	evening set	16019 Aug 13 17:02	18° Mp 14′23	
morning rise	16018 Sep 10 03:42	22° Mp 24'30		inferior conj	16019 Aug 19 04:18	12° Mp 26′23	2°44'22
desc. node	16018 Sep 12 07:18	20° Mp 56'19		minimum elong	16019 Aug 19 06:09	12° Mp 20′24	2°43'43
direct	16018 Sep 16 14:25	19° m 47'45		min. Earth dist.	16019 Aug 20 17:14	10° Mp 27′28	0.66872 AU
morning max el	16018 Sep 30 01:08	27° m 40'12	27°08'13	morning rise	16019 Aug 24 18:33	5° m 59'40	
	16018 Oct 02 06:17	0∘ ⊽		desc. node	16019 Aug 30 04:42	3° m ,25'37	
	16018 Oct 23 17:12	0° M		direct	16019 Aug 30 20:35	3° TD 23'54	
morning set	16018 Nov 04 14:22	21°M18'13		morning max el	16019 Sep 12 12:41	10° M 56'24	26°01'25
asc. node	16018 Nov 06 18:57	25°M36'47			16019 Sep 27 17:42	0∘ ত	
	16018 Nov 08 23:06	0° ∡ ¹			16019 Oct 16 07:31	0° M	
max. Earth dist.	16018 Nov 08 21:15	29°M50'32	1.33363 AU	morning set	16019 Oct 18 11:12	3°M55'29	
				max. Earth dist.	16019 Oct 22 04:23	10°M56'09	1.35226 AU
superior conj	16018 Nov 13 00:15	8° ∡ ¹26'35	0°54'35	asc. node	16019 Oct 24 15:44	15°M46'05	
minimum elong	16018 Nov 12 21:57	8° ∡ 14'24	0°54'53				
evening rise	16018 Nov 20 03:00	23° ∡ ¹41'29		superior conj	16019 Oct 27 19:45	22°M08'14	0°28'33
	16018 Nov 23 03:19	ರ°0		minimum elong	16019 Oct 27 18:11	22°M00'17	0°28'49
desc. node	16018 Dec 09 04:58	26° ප 12'37		-	16019 Oct 31 15:07	0° ∡ °	

evening rise	16019 Nov 04 11:13	8° × 700'07		behind sun end	16020 Oct 10 11:19	5°M51'58	
evening rise	16019 Nov 16 05:40	0 X 00 07		asc. node	16020 Oct 10 11:17	5°M57'30	
evening max el	16019 Nov 22 23:37	。 8° 云 35'58	20°33'00	evening rise	16020 Oct 18 14:53	22°M05'52	
desc. node	16019 Nov 26 02:02	11° る 15'35	20 33 00	overmig rise	16020 Oct 22 14:55	0° ⊼	
retrograde	16019 Dec 04 02:12	14° る 07'16		evening max el	16020 Nov 04 11:00	19° х 47′56	19°22'57
evening set	16019 Dec 06 11:04	13° る 53'20		desc. node	16020 Nov 11 23:11	24° ₹ '21'02	
inferior conj	16019 Dec 15 06:36	9° る 59'29	-5°19'12	retrograde	16020 Nov 13 22:30	24° х ³33′00	
minimum elong	16019 Dec 14 21:26	10° る 12'48		evening set	16020 Nov 15 20:25	24° ₹ 22'14	
min. Earth dist.	16019 Dec 16 14:13	9° ට 13'31	0.54597 AU	inferior conj	16020 Nov 24 10:19	20° ∡ 14'35	-3°51'04
morning rise	16019 Dec 23 07:33	6° ප 01'39		minimum elong	16020 Nov 24 01:07	20° ∡ ¹29'37	3°47'13
direct	16019 Dec 27 20:04	5° る 17'41		min. Earth dist.	16020 Nov 26 23:17	18° ∡ ³35′08	0.55656 AU
morning max el	16020 Jan 10 05:42	11° る 51'45	23°36'39	morning rise	16020 Dec 02 03:36	15° ∡ ¹47'58	
asc. node	16020 Jan 20 15:06	24° る 57'58		direct	16020 Dec 07 14:34	14° ∡ °40′22	
	16020 Jan 23 16:42	0° ≈		morning max el	16020 Dec 21 14:38	21° х ⁴44'53	25°23'58
morning set	16020 Feb 03 00:41	20° ≈ 14'27			16020 Dec 28 19:43	0°ರ	
	16020 Feb 07 12:38	0°)		asc. node	16021 Jan 06 12:18	13° る 18'12	
					16021 Jan 15 05:04	0° ≈	
superior conj	16020 Feb 09 21:06	5° 米 07'11	1°28'29	morning set	16021 Jan 17 12:24	4° ≈ 53'53	
minimum elong	16020 Feb 09 22:53	5° ∺ 16'49	1°28'42				
max. Earth dist.	16020 Feb 12 18:27	11° ∺ 18'45	1.32910 AU	superior conj	16021 Jan 24 06:00	19° ≈ 43'48	1°36'16
evening rise	16020 Feb 17 15:01	21° ¥ 18′53		minimum elong	16021 Jan 24 06:49	19° ≈ 48′22	1°36'47
desc. node	16020 Feb 22 02:21	29° ¥ 57'25		max. Earth dist.	16021 Jan 25 20:41	23°≈17'12	1.31758 AU
	16020 Feb 22 02:54	0° Υ			16021 Jan 28 23:00	0° ∀	
	16020 Mar 11 18:25	0°8		evening rise	16021 Jan 31 11:08	5°) 16'14	
evening max el	16020 Mar 22 19:49	12° 8 58'32	27°25'48	desc. node	16021 Feb 07 23:02	19°) ₹54'38	
retrograde	16020 Apr 05 12:26	20° 8 30'59			16021 Feb 13 18:10	0°Υ 25° 20 52355	25025125
evening set	16020 Apr 12 05:53	18° 8 02'48	0.64410.411	evening max el	16021 Mar 05 06:31	25° Y 52'55	27°35'37
min. Earth dist.	16020 Apr 16 01:25	14° 8 35'56	0.64418 AU		16021 Mar 10 05:25	0°8	
asc. node	16020 Apr 17 12:16	13° 8 03'29	0021124	retrograde	16021 Mar 19 05:24	3° 8 21'27	
inferior conj	16020 Apr 18 15:40	11° 8 49'33	0°21'24 0°20'44	evening set	16021 Mar 26 00:59	1° ႘ 05'16 30°ℝ Ƴ	
minimum elong	16020 Apr 18 15:04	11° 8 51'11 6° 8 27'02	0°20'44	min Forth dist	16021 Mar 27 13:03	30° Κ Ι 28° Υ '04'06	0.62324 AU
morning rise direct	16020 Apr 25 02:24 16020 Apr 27 16:44	5° 8 52'29		min. Earth dist. inferior conj	16021 Mar 29 19:10 16021 Apr 01 19:19	28 Y 04 06 25° Υ 12'12	
morning max el	16020 Apr 27 10.44 16020 May 04 00:38		17°50'54	minimum elong	16021 Apr 01 19:19	25°Υ08'09	0°49'26
morning max er	16020 May 18 08:23	9°П	17 30 34	asc. node	16021 Apr 04 09:35	23° 10809 22° 10809 10809	0 49 20
desc. node	16020 May 20 03:37	3° П 00'49		morning rise	16021 Apr 04 05:35	20°Υ06'14	
morning set	16020 May 21 05:02	4° ∏ 47'11		direct	16021 Apr 11 02:37	19° Υ 42'36	
morning sec	10020 11149 21 03.02	1 22 17 11		morning max el	16021 Apr 17 18:12	23° Υ '04'19	17°46'50
superior conj	16020 Jun 03 17:46	27° Ⅱ 00'46	-1°40'26	morning max or	16021 Apr 23 06:15	0°8	17 1020
minimum elong	16020 Jun 03 09:11	26° I I26'22		morning set	16021 May 03 17:00	17° 8 32'58	
S	16020 Jun 05 14:42	0° ©		desc. node	16021 May 07 00:26	23° 8 21'15	
max. Earth dist.	16020 Jun 08 11:35	4° 5 32'26	1.45393 AU		16021 May 10 20:30	$\Pi^{\circ}0$	
evening rise	16020 Jun 19 13:11	21° © 41'41			,		
	16020 Jun 25 00:20	$0^{\circ}\Omega$		superior conj	16021 May 15 10:55	7° Ⅱ 47'46	-1°04'44
greatest brilliancy	16020 Jul 04 08:52	13° Ω 52'42	-0.6m	minimum elong	16021 May 15 04:55	7° Ⅱ 22'38	1°04'35
asc. node	16020 Jul 14 11:09	27° Ω 17'47		max. Earth dist.	16021 May 22 04:18	18° Ⅱ 48'55	1.44126 AU
evening max el	16020 Jul 16 13:15	29° Ω 31′50	20°00'19		16021 May 29 06:26	0 \circ \odot	
	16020 Jul 17 00:48	0° ™		evening rise	16021 May 30 01:38	1° 5 014'18	
retrograde	16020 Jul 24 03:51	3° m 50'03			16021 Jun 18 14:11	$0^{\circ}\Omega$	
evening set	16020 Jul 28 01:58	2°m/21'31		evening max el	16021 Jun 29 12:04	13° Ω 25'54	21°08'11
	16020 Jul 30 12:40	30°R€		asc. node	16021 Jul 01 08:01	15°Ω08'18	
inferior conj	16020 Aug 02 08:58	26° Ω 21'15		retrograde	16021 Jul 08 02:49	18° Ω 24'37	
minimum elong	16020 Aug 02 09:59		3°01'55	evening set	16021 Jul 12 11:47	16° Ω 38'38	
min. Earth dist.	16020 Aug 03 08:02	25°Ω03'07	0.68104 AU	inferior conj	16021 Jul 17 17:17	10° Ω 27'29	3°08'39
morning rise	16020 Aug 07 17:35	19° Ω 56'03		minimum elong	16021 Jul 17 17:21	10° Ω 27'14	3°08'01
direct	16020 Aug 13 08:48	17° Ω 28'29		min. Earth dist.	16021 Jul 18 02:53	9° Ω 54'06	0.68870 AU
desc. node	16020 Aug 16 02:03	17°Ω57'41	24020141	morning rise	16021 Jul 22 22:39	4°Ω07'15	
morning max el	16020 Aug 24 23:42	24° Ω 26'02	24° 38′41	direct	16021 Jul 28 02:02	1° Ω 53'35	
	16020 Aug 29 23:52	0ം ⊽ 0ംൂൂ		desc. node	16021 Aug 02 23:23	4°Ω09'56	23000125
morning set	16020 Sep 20 03:46	0° <u>11</u> 15° Ω 47'30		morning max el	16021 Aug 07 10:58	8° Ω 03'39	23°09'35
morning set max. Earth dist.	16020 Sep 29 14:51 16020 Oct 03 04:13	13° 22 47'30 22° 2 07'48	1.37472 AU	morning set	16021 Aug 24 15:14 16021 Sep 10 21:03	0° Т р 26° Т р 44'03	
max. Darui Uist.	16020 Oct 03 04.13	0°M	1.5/4/2 AU	morning set	16021 Sep 10 21:03 16021 Sep 12 19:54	0° ⊡	
	10020 001 07 10.03	O IIO		max. Earth dist.	16021 Sep 12 19.34 16021 Sep 15 02:53	0 = 3° ⊆ 54'06	1.39887 AU
superior conj	16020 Oct 10 04:32	5° ™ 18'58	-0°02'59	mas. Darm dist.	10021 бер 15 02.55	5 —5400	1.5700/ AU
minimum elong	16020 Oct 10 04:42	5°M19'47	0°02'35	superior conj	16021 Sep 22 22:42	17° ≏ 49'30	-0°38'33
behind sun begin	16020 Oct 10 04:42 16020 Oct 09 22:05	4°M47'40	3 02 33	minimum elong	16021 Sep 22 22:42	18° ⊆ 02'58	
u ban begin	2222 220 27 22.03	. 110-17-10		viong	Sep 25 01.57		/

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asc. node	16021 Sep 27 09:09	26° Ω 07'05		minimum elong	16022 Sep 05 04:03	29° m 57'23	1°14'27
use. noue	16021 Sep 29 10:00	0°M		g	16022 Sep 05 04:39	0° ⊽	1 1.2/
evening rise	16021 Oct 02 11:07	5°M51'08		asc. node	16022 Sep 14 05:51	° — 16° Ω 11'45	
evening noe	16021 Oct 16 19:36	0° √		evening rise	16022 Sep 15 20:15	19° ₽ 07'21	
evening max el	16021 Oct 18 11:20	1° √ 48'45	18°35'09		16022 Sep 21 20:52	0°M	
retrograde	16021 Oct 26 12:45	5° ₹ 53'37	10 33 07	evening max el	16022 Oct 01 20:34	14°M30'28	18°08'27
evening set	16021 Oct 28 11:22	5° × ⁷ 40'10		retrograde	16022 Oct 08 22:05	18°ML07'30	10 0027
desc. node	16021 Oct 29 20:25	5° × 15'17		evening set	16022 Oct 11 02:36	17°M47'07	
inferior conj	16021 Nov 05 10:19	1° ₹ 12'07	2°06'55	desc. node	16022 Oct 16 17:42	14°M20'27	
minimum elong	16021 Nov 05 05:14	1°×1207	2°04'15	inferior conj	16022 Oct 18 07:58	12°M57'29	0020120
minimum clong	16021 Nov 06 24:00	30°RM	2 04 13	minimum elong	16022 Oct 18 06:54	12°M59'51	0°29'37
i. E4b di-4		•	0.57420 AII	C			0.59618 AU
min. Earth dist.	16021 Nov 08 14:15	28°M48'24	0.57430 AU	min. Earth dist.	16022 Oct 21 13:32	10°M06'31	0.59618 AU
morning rise	16021 Nov 12 19:47	26°M09'00		morning rise	16022 Oct 25 07:55	7°M20'19	
direct	16021 Nov 18 23:24	24°M34'39		direct	16022 Oct 31 21:15	5°M20'26	
	16021 Nov 30 23:02	0° ∡		morning max el	16022 Nov 15 03:41	13°M05'29	27°44'53
morning max el	16021 Dec 03 05:00	2° ∡ ′02'19	26°51'29		16022 Nov 28 14:48	0° ∡ ″	
	16021 Dec 23 03:42	0°ප		asc. node	16022 Dec 11 06:31	21° ∡ ′40'47	
asc. node	16021 Dec 24 09:26	2° る 15'44			16022 Dec 15 10:32	8°0	
morning set	16022 Jan 01 22:15	19° る 23'28		morning set	16022 Dec 17 04:23	3° ⋜ 38'38	
	16022 Jan 06 18:04	0° ≈		max. Earth dist.	16022 Dec 23 11:02	17° る 22'01	1.31026 AU
superior conj	16022 Jan 08 17:04	4° ≈ 22'55	1°37'59	superior conj	16022 Dec 24 04:25	18° る 59'14	1°33'40
minimum elong	16022 Jan 08 16:50	4° ≈ 21'37	1°38'39	minimum elong	16022 Dec 24 03:11	18° る 52'21	1°34'20
max. Earth dist.	16022 Jan 09 03:23	5° ≈ 20'42	1.31122 AU		16022 Dec 29 03:04	0° ≈	
evening rise	16022 Jan 15 13:58	19° ≈ 28'31		evening rise	16022 Dec 30 21:22	3° ≈ 50′21	
	16022 Jan 20 17:39	0° ∀		desc. node	16023 Jan 12 16:34	28° ≈ 31'11	
desc. node	16022 Jan 25 19:46	9°) €28'50			16023 Jan 13 14:05	0°) €	
	16022 Feb 08 06:58	$0^{\circ}\mathbf{\Upsilon}$		evening max el	16023 Jan 28 10:55	19°) 23′11	26°13'01
evening max el	16022 Feb 15 12:28	8° Y ′04'20	27°11'49	retrograde	16023 Feb 11 10:12	26° ¥ 29'12	
retrograde	16022 Mar 01 13:17	15° Y ′22'54		evening set	16023 Feb 17 15:22	24° ¥ 57'25	
evening set	16022 Mar 08 05:20	13° Y 26′10		min. Earth dist.	16023 Feb 22 00:09	22° ¥ 19'49	0.57885 AU
min. Earth dist.	16022 Mar 12 02:50	10° Ƴ 42'32	0.60077 AU	inferior conj	16023 Feb 25 01:52	20°) €06'53	-3°44'18
inferior conj	16022 Mar 15 07:59	8° Y 01'39		minimum elong	16023 Feb 25 10:16	19°) 51'40	
minimum elong	16022 Mar 15 13:00	7° Y '51'07		morning rise	16023 Mar 05 08:24	15°) (41'43	
asc. node	16022 Mar 22 06:56	3° Υ 28'08	,	direct	16023 Mar 07 07:40	15°) (11 15	
morning rise	16022 Mar 23 00:10	3°Υ14'54		asc. node	16023 Mar 09 04:18	15° X 40'51	
direct	16022 Mar 25 01:04	2°Υ58'32		morning max el	16023 Mar 15 17:22	19° ¥ 37′21	18°36'02
morning max el	16022 Apr 01 09:05	6° Υ 38'11	18°01'20	morning max ci	16023 Mar 23 09:38	0°Υ	10 30 02
morning max ci	16022 Apr 16 08:05	0°8	16 01 20	marning aat		15° Υ 15'39	
	•			morning set	16023 Mar 31 17:07	0° 8	
morning set	16022 Apr 16 22:49	1° 8 07'54			16023 Apr 08 09:39	0.0	
desc. node	16022 Apr 23 21:13	13° 8 49'45			16022 4 00 16 24	20 0 22142	000015.5
	1.000 1 07 00 00	100 40000	000 (100	superior conj	16023 Apr 09 16:24	2° 8 23'43	0°08'55
superior conj	16022 Apr 27 03:30	19° 8 38'28		minimum elong	16023 Apr 09 17:00	2° 8 26'29	0°08'29
minimum elong	16022 Apr 27 01:14	19° 8 28'28	0°26'47	behind sun begin	16023 Apr 09 11:00	1° 8 58'34	
	16022 May 03 03:58	0°Щ		behind sun end	16023 Apr 09 23:00	2° 8 54'20	
max. Earth dist.	16022 May 04 17:00	2° ∏ 34'43	1.42310 AU	desc. node	16023 Apr 10 17:56	4° 8 21'52	
evening rise	16022 May 10 04:28	11° Ⅱ 29'35		max. Earth dist.	16023 Apr 17 01:31	15° 8 40'12	1.40134 AU
	16022 May 22 06:29	0 \circ ∞		evening rise	16023 Apr 21 03:59	22° 8 39'30	
evening max el	16022 Jun 12 05:51	27° © 20'38	22°25'35		16023 Apr 25 15:38	Π °0	
	16022 Jun 15 04:16	$0 {\circ} \Omega$			16023 May 16 04:59	0 \circ	
asc. node	16022 Jun 18 04:58	2° Ω 01′16		evening max el	16023 May 25 20:23	11° © 15'34	23°47'04
retrograde	16022 Jun 22 00:18	3° Ω 03'43		asc. node	16023 Jun 05 01:59	17° © 38'32	
evening set	16022 Jun 26 20:45	1° Ω 01′23		retrograde	16023 Jun 05 19:03	17° 5 940'42	
	16022 Jun 27 22:43	30° ℝ ∽		evening set	16023 Jun 11 03:11	15° 5 24'21	
inferior conj	16022 Jul 02 03:12	24°9541'05	3°03'57	min. Earth dist.	16023 Jun 15 20:08	9° © 53'55	0.68932 AU
minimum elong	16022 Jul 02 02:20	24°5544'04	3°03'09	inferior conj	16023 Jun 16 12:45	8° 9 57'08	2°48'49
min. Earth dist.	16022 Jul 01 23:38	24°953'30	0.69147 AU	minimum elong	16023 Jun 16 11:07	9° 5 02'42	2°47'47
morning rise	16022 Jul 07 07:46	18° © 28'01		morning rise	16023 Jun 21 19:04	2° © 52'40	
direct	16022 Jul 11 22:56	16° © 32'06		direct	16023 Jun 25 22:10	1°5516'26	
desc. node	16022 Jul 20 20:39	21°538'42		morning max el	16023 Jul 03 21:13	5°\$\frac{9}{26}	20°25'12
morning max el	16022 Jul 21 01:12	21°950'00	21°42'53	desc. node	16023 Jul 07 17:52	10°903'32	
	16022 Jul 28 01:40	0°Ω	-		16023 Jul 22 03:14	0°Ω	
	16022 Aug 17 21:10	0°mp		morning set	16023 Aug 01 13:41	15° Ω 47'04	
morning set	16022 Aug 17 21:10 16022 Aug 22 03:28	6°Mp40'31		max. Earth dist.	16023 Aug 01 13:41 16023 Aug 10 17:13	0° Mp 08'21	1.44074 AU
max. Earth dist.	16022 Aug 22 05.28 16022 Aug 28 06:39	16° Mp 35'20	1.42180 AU	max. Earm tist.	16023 Aug 10 17.13 16023 Aug 10 15:08	0°M)	1.770/4 AU
max. Darui Uist.	10022 Aug 28 00.39	10 IJ 23 20	1.42100 AU		10023 Aug 10 13.08	עווי ∪	
aunoriar aari	16022 San 04 21:55	200 m 2014 4	1015!14	gunorier con:	16022 Ave 16 22:17	100 ms 12120	1047150
superior conj	16022 Sep 04 21:55	29° Mp 30'44	-1 13 14	superior conj	16023 Aug 16 22:17	10° Mp 13'30	-1 4/39

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superior conj	16025 Jul 06 10:34	29°915'10	-2°13'13	superior conj	16026 Jun 15 22:20	8°538'16	-1°56'58
minimum elong	16025 Jul 06 08:05	29° © 05'27	2°13'52	minimum elong	16026 Jun 15 14:13	8° 5 06'17	1°57'09
max. Earth dist.	16025 Jul 06 04:16	28° © 50'37	1.45971 AU	max. Earth dist.	16026 Jun 19 00:45	13° © 30'14	1.45816 AU
	16025 Jul 06 22:04	0 \circ Ω			16026 Jun 29 16:01	0 $^{\circ}\Omega$	
evening rise	16025 Jul 22 04:26	23° Ω 56′53		evening rise	16026 Jul 02 01:02	3° Ω 39'24	
4 41 711	16025 Jul 26 00:18	0° ™ 22120	0.0	greatest brilliancy	16026 Jul 15 02:36	23° Ω 28'41	-0.7m
greatest brilliancy asc. node	16025 Jul 30 04:22 16025 Aug 04 19:52	6° Mp 33'30 15° Mp 09'12	-0.8m	asc. node	16026 Jul 19 15:39 16026 Jul 22 16:37	0° Mp 4° Mp 03'10	
evening max el	16025 Aug 04 19:52 16025 Aug 12 13:55	25° Mp 01'34	18°41'46	evening max el	16026 Jul 26 22:09	8° m) 54'09	19°27'17
retrograde	16025 Aug 19 03:51	28° m/ 35'23	10 41 40	retrograde	16026 Aug 03 01:28	12° m/52'23	1) 2/1/
evening set	16025 Aug 22 10:08	27° mp 34'38		evening set	16026 Aug 06 17:41	11° m) 34'05	
inferior conj	16025 Aug 28 01:17	21° m 54'37	2°27'44	inferior conj	16026 Aug 12 02:47	5° m 40'57	2°53'36
minimum elong	16025 Aug 28 03:28	21° m)47'51	2°27'03	minimum elong	16026 Aug 12 04:19	5° m/35'54	2°52'59
min. Earth dist.	16025 Aug 29 22:26	19° m 35'03	0.65966 AU	min. Earth dist.	16026 Aug 13 09:50	3° m 58'37	0.67459 AU
morning rise	16025 Sep 02 19:45	15° m 29'05			16026 Aug 16 18:59	30° R Ω	
desc. node	16025 Sep 06 09:46	13° m 19'46		morning rise	16026 Aug 17 14:23	29° Ω 14'33	
direct	16025 Sep 09 03:11	12° m 51'25		direct	16026 Aug 23 12:10	26° Ω 41'19	
morning max el	16025 Sep 22 06:51	20° m 37'50	26°42'14	desc. node	16026 Aug 24 07:09	26° Ω 43'46	
	16025 Sep 30 09:16	ია ო 0∘ ত		. ,	16026 Aug 31 06:49	0° m)	25025120
	16025 Oct 20 06:41	0°M		morning max el	16026 Sep 04 17:58	4° Mp 00'11	25°27'30
morning set	16025 Oct 28 01:43	14°M06'06		maming got	16026 Sep 24 16:30	ე∘ <u>ი</u>	
asc. node max. Earth dist.	16025 Oct 31 21:12 16025 Nov 01 01:55	21°M30'58 21°M54'27	1.34096 AU	morning set	16026 Oct 10 15:44 16026 Oct 12 14:49	26° £ 25′08 0° I L	
max. Earth dist.	16025 Nov 05 01:18	21 11G3427 0° √	1.34090 AU	max. Earth dist.	16026 Oct 12 14.49	2°M58'47	1.36154 AU
	10023 1107 03 01.10	V X		asc. node	16026 Oct 14 03:14 16026 Oct 18 17:58	11°M41'47	1.50154710
superior conj	16025 Nov 05 20:29	1° √ 39'51	0°44'16	use. noue	10020 000 10 17.00	11 110 11 17	
minimum elong	16025 Nov 05 18:24	1° ∡ ¹28'56	0°44'31	superior conj	16026 Oct 20 11:53	15° M 09'41	0°15'48
evening rise	16025 Nov 13 03:58	17° ∡ 08'19		minimum elong	16026 Oct 20 10:55	15° M 04'55	0°16'06
-	16025 Nov 19 12:35	ರ∘ರ		behind sun begin	16026 Oct 20 10:34	15°ML03'10	
evening max el	16025 Dec 03 00:27	19° ප් 53'16	21°23'01	behind sun end	16026 Oct 20 11:16	15°M06'39	
desc. node	16025 Dec 03 07:20	20° ට 10'01			16026 Oct 27 18:29	0° ∡ ¹	
retrograde	16025 Dec 15 00:09	25° ප් 48'56		evening rise	16026 Oct 28 10:32	1° ∡ "22′15	
evening set	16025 Dec 17 21:58	25° ප් 29'28			16026 Nov 14 13:14	0°ಕ	
inferior conj	16025 Dec 26 15:02	21° る 39'11		evening max el	16026 Nov 15 03:23	0° る 36'17	20°00'24
minimum elong	16025 Dec 26 09:18	21° る 47'14	5°49'08	desc. node	16026 Nov 20 04:25	4° る 25'45	
min. Earth dist.	16025 Dec 27 01:33 16026 Jan 03 21:02	21°る24'23 17°る49'30	0.54392 AU	retrograde	16026 Nov 25 12:52 16026 Nov 27 15:31	5°る47'13 5°る35'24	
morning rise direct	16026 Jan 07 18:59	17 3 4930		evening set inferior conj	16026 Nov 27 13.31 16026 Dec 06 10:12	3 033 24 1° る 36'57	1°15'10
morning max el	16026 Jan 20 14:44	23°る30'11	22°33'27	minimum elong	16026 Dec 06 00:10	1°る52'08	
morning max cr	16026 Jan 26 07:08	0°≈	22 33 21	min. Earth dist.	16026 Dec 08 07:57		0.54953 AU
asc. node	16026 Jan 27 20:17	2°≈07'54			16026 Dec 09 02:44	30°R. ✓	
morning set	16026 Feb 11 14:52	29° ≈ 07'02		morning rise	16026 Dec 14 07:47	27° ∡ ¹28'58	
-	16026 Feb 12 00:50	0°) €		direct	16026 Dec 19 06:50	26° ₹ ³35′20	
					16026 Dec 28 21:07	ರ°0	
superior conj	16026 Feb 18 14:54	14° 米 07'51	1°21'10	morning max el	16027 Jan 01 23:28	3° る 22'45	24°23'33
minimum elong	16026 Feb 18 17:06	14° 米 19'35	1°21'12	asc. node	16027 Jan 14 17:31	20° る 00'43	
max. Earth dist.	16026 Feb 22 06:46	21°) 48′29	1.33793 AU		16027 Jan 20 08:23	0° ≈	
	16026 Feb 26 08:35	0° Υ		morning set	16027 Jan 27 02:52	13° ≈ 49'41	
evening rise	16026 Feb 26 18:21	0° Y 47'41 5° Y 42'03			16027 F 1 02 21 25	20020147	1022122
desc. node	16026 Mar 01 07:55	5° Y 42'03		superior conj	16027 Feb 02 21:35 16027 Feb 02 22:59	28°≈39'47 28°≈47'27	1°32'32 1°32'54
evening max el	16026 Mar 15 16:35 16026 Apr 02 13:05	22° 8 39'09	27°07'00	minimum elong	16027 Feb 02 22:39 16027 Feb 03 12:15	28 ≈ 4727 0° ∺	1 32 34
evening max er	16026 Apr 14 05:06	0° Ⅱ	27 0700	max. Earth dist.	16027 Feb 05 05:30	3°) 43′43	1.32361 AU
retrograde	16026 Apr 16 00:14	0° Ⅱ 10'09		evening rise	16027 Feb 10 09:30	14°) 33'36	1.52501 710
1011081440	16026 Apr 17 18:04	30°R₩		desc. node	16027 Feb 16 04:34	25°) 49'23	
evening set	16026 Apr 22 14:08	27° 8 38'54			16027 Feb 18 11:36	0° Υ	
asc. node	16026 Apr 25 17:26	24° 8 43'59			16027 Mar 10 14:06	0°B	
min. Earth dist.	16026 Apr 26 11:48	23° 8 54'15	0.65485 AU	evening max el	16027 Mar 16 01:40	5° 8 54'00	27°33'58
inferior conj	16026 Apr 28 19:05	21° 8 17'37	0°56'10	retrograde	16027 Mar 29 21:19	13° 8 24'49	
minimum elong	16026 Apr 28 17:40	21° 8 21'41	0°55'06	evening set	16027 Apr 05 16:18	11° 8 01'06	
morning rise	16026 May 04 22:48	15° 8 46'24		min. Earth dist.	16027 Apr 09 11:00	7° 8 45'53	0.63553 AU
direct	16026 May 07 18:12	15° 8 03'59		inferior conj	16027 Apr 12 05:45	4° 8 55'39	
morning max el	16026 May 14 01:31	18° 8 20'28	18°01'10	minimum elong	16027 Apr 12 05:59	4° 8 55'03	0°07'23
4 1	16026 May 22 21:12	0°Ⅱ 8°Ⅱ45105		transit middle	16027 Apr 12 05:59	4° 8 55'03	0°07'23
desc. node	16026 May 28 09:00	8° Ⅱ 45'05		transit begin	16027 Apr 12 03:11	5° 8 02'15	
morning set	16026 Jun 01 09:11 16026 Jun 10 11:40	15° Ⅱ 16'56 0° ©		transit end	16027 Apr 12 08:47	4° 8 47'53 4° 8 32'43	
	10020 Juli 10 11:40	0 29		asc. node	16027 Apr 12 14:44	4 O 32'43	

	16027 A 10 04.06	200500		Ji	16020 4 02 14.40	1200047101	
	16027 Apr 18 04:06	30°₹ Υ		direct	16028 Apr 03 14:40	12° Y 47'01	
morning rise	16027 Apr 18 22:08	29° Y ′39'35		morning max el	16028 Apr 10 11:57	16° Y 14'36	17°50'45
direct	16027 Apr 21 09:04	29° Y ′09'57			16028 Apr 20 04:41	$0^{\circ}S$	
	16027 Apr 24 13:24	9° 8		morning set	16028 Apr 26 04:35	10° 8 35'50	
morning max el	16027 Apr 27 19:04	2° 8 26'13	17°47'02	desc. node	16028 May 01 02:41	19° 8 23'36	
morning set	16027 May 14 08:20	27° 8 27'19					
desc. node	16027 May 15 05:53	28° 8 59'20		superior conj	16028 May 07 05:43	0° Ⅱ 03'39	-0°48'32
	16027 May 15 20:06	$\Pi^{\circ}0$		minimum elong	16028 May 07 01:20	29° 8 44'53	0°48'28
	,				16028 May 07 04:52	0°II	
superior conj	16027 May 27 02:27	18° Ⅱ 49'07	1°26'02	max. Earth dist.	16028 May 14 11:26	12° Ⅱ 07'29	1.43407 AU
minimum elong	16027 May 26 18:36	18° Ⅱ 17'06			16028 May 21 04:48	22°II50'36	1.43407 AO
Č	•	28° Ⅱ 01'47	1.44932 AU	evening rise	•	22 H 30 30	
max. Earth dist.	16027 Jun 01 20:02		1.44932 AU		16028 May 25 20:06		
	16027 Jun 03 01:55	0 \circ			16028 Jun 15 23:46	0 ° Ω	
evening rise	16027 Jun 11 11:40	13° © 03'36		evening max el	16028 Jun 21 20:53	6° Ω 42'05	21°40'11
	16027 Jun 22 18:11	$0^{\circ}\Omega$		asc. node	16028 Jun 25 10:21	9° Ω 48'19	
asc. node	16027 Jul 09 13:27	22° Ω 20′29		retrograde	16028 Jun 30 23:07	11° Ω 59'48	
evening max el	16027 Jul 10 00:30	22° Ω 48'30	20°27'41	evening set	16028 Jul 05 12:58	10° Ω 06′26	
retrograde	16027 Jul 18 00:30	27° Ω 22'38		inferior conj	16028 Jul 10 18:33	3° Ω 50'55	3°07'57
evening set	16027 Jul 22 03:16	25° Ω 46'23		minimum elong	16028 Jul 10 18:13	3° Ω 52′05	3°07'15
inferior conj	16027 Jul 27 09:18	19° Ω 41'19	3°06'29	min. Earth dist.	16028 Jul 10 22:26	3° Ω 37'21	0.69045 AU
minimum elong	16027 Jul 27 09:56	19° Ω 39'10	3°05'53		16028 Jul 13 15:40	30°Rூ	***************************************
min. Earth dist.	16027 Jul 28 02:32	18° Ω 42'11	0.68495 AU	morning rise	16028 Jul 15 23:17	27°933'35	
		13°Ω18'10	0.00493 AU	•			
morning rise	16027 Aug 01 16:17			direct	16028 Jul 20 21:21	25°\$27'25	
direct	16027 Aug 07 02:35	10° Ω 56′06		desc. node	16028 Jul 28 01:48	28° © 49'00	
desc. node	16027 Aug 11 04:30	12° Ω 01'46			16028 Jul 29 10:03	0 $^{\circ}\Omega$	
morning max el	16027 Aug 18 04:55	17° Ω 33'47	24°01'02	morning max el	16028 Jul 30 17:17	1° Ω 15′29	22°32'03
	16027 Aug 28 14:32	0° m y			16028 Aug 21 11:10	0° m y	
	16027 Sep 17 17:13	0∘ ত		morning set	16028 Sep 02 07:02	18° Mp 26′27	
morning set	16027 Sep 22 10:45	7° ≙ 54'40		max. Earth dist.	16028 Sep 07 04:51	26° m 33'59	1.40892 AU
max. Earth dist.	16027 Sep 26 04:14	14° ≏ 24'06	1.38508 AU		16028 Sep 09 05:19	0∘ ত	
	•				i		
superior conj	16027 Oct 03 15:00	28° Ω 04'46	-0°17'42	superior conj	16028 Sep 15 01:40	10° £ 15'40	-0°54'13
minimum elong	16027 Oct 03 16:13	28° ♀ 10'35		minimum elong	16028 Sep 15 05:59	10° £ 35'00	
minimum ciong	16027 Oct 04 15:10	0°M	0 17 11	asc. node	16028 Sep 21 11:24	22° ⊆ 01'14	0 33 27
aga mada		1°M.53'01			16028 Sep 25 03:34	22° ⊆ 55'37	
asc. node	16027 Oct 05 14:41			evening rise	•		
evening rise	16027 Oct 12 11:29	15° ™ 20'42			16028 Sep 25 17:15	0°M,	
	16027 Oct 20 05:38	0° ∡		evening max el	16028 Oct 11 01:18	24°M29'14	18°21'14
evening max el	16027 Oct 28 20:38	12° ∡ 09′24	18°59'46	retrograde	16028 Oct 18 15:28	28°M21'02	
retrograde	16027 Nov 06 16:32	16° ∡ 36′20		evening set	16028 Oct 20 16:02	28°M05'15	
desc. node	16027 Nov 07 01:36	16° ∡ ³35'52		desc. node	16028 Oct 23 22:51	26°M39'20	
evening set	16027 Nov 08 13:48	16° ∡ ¹24'57		inferior conj	16028 Oct 28 07:32	23°M27'53	-1°24'14
inferior conj	16027 Nov 16 21:59	12° х 08′35	-3°07'02	minimum elong	16028 Oct 28 04:18	23°MJ34'27	1°22'21
minimum elong	16027 Nov 16 14:20	12° ∡ ′21'54	3°03'29	min. Earth dist.	16028 Oct 31 13:29	20°M50'01	0.58325 AU
min. Earth dist.	16027 Nov 19 18:56	10° ∡ ′08'56	0.56346 AU	morning rise	16028 Nov 04 13:04	18° M 09'06	
morning rise	16027 Nov 24 12:08	7° ∡ ¹26'49		direct	16028 Nov 10 21:26	16°M23'35	
direct	16027 Nov 30 06:52	6° ₹ 08'19		morning max el	16028 Nov 25 04:20	24°ML00'00	27°18'53
morning max el	16027 Dec 14 10:06	13° × ⁷ 22'43	26°04'47	morning max cr	16028 Nov 30 15:27	0° √	27 1033
morning max ci	16027 Dec 14 10.06 16027 Dec 27 11:10	13 x·2243	20 044/	asc. node	16028 Nov 30 13.27 16028 Dec 18 11:49	0 x . 27° ∡ 149'04	
,				asc. node			
asc. node	16028 Jan 01 14:42	8° ろ 38'20			16028 Dec 19 15:16	0°る	
morning set	16028 Jan 11 14:01	28° る 25'40		morning set	16028 Dec 25 22:34	12° る 50'28	
	16028 Jan 12 07:27	0° ≈				_	
				superior conj	16029 Jan 01 19:04	27° る 57'10	
superior conj	16028 Jan 18 07:37	13° ≈ 17'59	1°37'43	minimum elong	16029 Jan 01 18:24	27° る 53'24	1°37'35
minimum elong	16028 Jan 18 08:00	13° ≈ 20′06	1°38'20	max. Earth dist.	16029 Jan 01 17:47	27° る 49'57	1.31012 AU
max. Earth dist.	16028 Jan 19 10:13	15° ≈ 45'50	1.31422 AU		16029 Jan 02 17:00	0° ≈	
evening rise	16028 Jan 25 08:45	28° ≈ 37'49		evening rise	16029 Jan 08 13:48	12° ≈ 55'02	
•	16028 Jan 26 00:30	0° ∀			16029 Jan 17 02:56	0° ₩	
desc. node	16028 Feb 03 01:16	15°) (37'44		desc. node	16029 Jan 19 22:02	4° ¥ 59'50	
	16028 Feb 11 16:26	0°Υ			16029 Feb 07 05:04	0° Υ	
evening may al	16028 Feb 26 10:36	18° Υ 31'03	27°29'48	evening max el	16029 Feb 07 13:23	0° Υ 19'56	26°50'48
evening max el			41 4740	Č			20 30 40
retrograde	16028 Mar 11 10:22	25° Y 55'34		retrograde	16029 Feb 21 14:04	7° ℃ 34'11	
evening set	16028 Mar 18 05:30	23° Y 46'38	0.646=-	evening set	16029 Feb 28 02:30	5° ℃ 47'10	
min. Earth dist.	16028 Mar 22 00:17	20° Y ′54′28	0.61376 AU	min. Earth dist.	16029 Mar 04 03:22	3° Y 07'54	0.59123 AU
inferior conj	16028 Mar 25 03:28	18° Y ′05'07		inferior conj	16029 Mar 07 08:31	0° Ƴ 36'33	
minimum elong						00000000	
	16028 Mar 25 06:29	17° Y ′58′18	1°23'03	minimum elong	16029 Mar 07 15:05	0° Y 23'37	2°49'27
asc. node	16028 Mar 25 06:29 16028 Mar 29 12:05	14° Y 33'28	1°23'03	minimum elong	16029 Mar 07 15:05 16029 Mar 08 03:11	0°₹723'37 30°₹ \	2°49'27
asc. node morning rise			1°23'03	minimum elong morning rise			2°49'27

_							
asc. node	16029 Mar 16 09:25	25°) 47'48		evening set	16030 Feb 09 03:39	16° ¥ 56'52	
direct	16029 Mar 17 06:41	25°) 44′53		min. Earth dist.	16030 Feb 13 21:01	14° ∺ 16'47	
morning max el	16029 Mar 25 00:35	29°) ₹35′24	18°13'33	inferior conj	16030 Feb 16 17:30	12°) €20′23	-4°21'38
	16029 Mar 25 10:24	0 ° Υ		minimum elong	16030 Feb 17 02:45	12°) €04'37	4°18'35
morning set	16029 Apr 09 16:12	24° Y °25'44		morning rise	16030 Feb 25 04:47	8° ∺ 04'20	
	16029 Apr 12 15:15	0° ႘		direct	16030 Feb 27 05:02	7° ¥ 52′02	
desc. node	16029 Apr 17 23:27	9° 8 53'53		asc. node	16030 Mar 03 06:46	8°) 45′38	
				morning max el	16030 Mar 08 04:49	12° 升 16′20	18°57'21
superior conj	16029 Apr 19 07:26	12° 8 18'48	-0°11'03	•	16030 Mar 20 01:52	$0^{\circ}\mathbf{Y}$	
minimum elong	16029 Apr 19 06:33	12° 8 14'46	0°11'21	morning set	16030 Mar 24 14:30	8° Y 43'19	
behind sun begin	16029 Apr 19 01:13	11° 8 50'44		<i>8</i>			
behind sun end	16029 Apr 19 11:52	12° 8 38'46		superior conj	16030 Apr 02 03:39	25° Y '23'20	0°22'31
max. Earth dist.	16029 Apr 26 21:44	25° 8 34'33	1.41409 AU	minimum elong	16030 Apr 02 05:03	25° Υ 30'00	0°22'00
max. Lattii dist.	16029 Apr 29 13:15	0°Ⅱ	1. 4 1407 A0	desc. node	16030 Apr 04 20:10	0° 8 26'27	0 22 00
	16029 May 01 16:00	3° Ⅱ 27'54		desc. Hode	16030 Apr 04 14:28	0°8	
evening rise	•	3 п 2/34		Eth dit	•	8° 8 19'56	1 20154 ATT
	16029 May 19 03:02		22000111	max. Earth dist.	16030 Apr 09 04:26	_	1.39154 AU
evening max el	16029 Jun 04 12:50	20° © 35'46	23°00'11	evening rise	16030 Apr 13 00:37	15° 8 01'18	
asc. node	16029 Jun 12 07:20	26° © 10'52			16030 Apr 22 05:00	0°Щ	
retrograde	16029 Jun 14 19:43	26° © 38'11			16030 May 13 21:57	0 \circ 50	
evening set	16029 Jun 19 21:02	24° © 29'32		evening max el	16030 May 18 02:44	4° © 31'11	24°21'32
inferior conj	16029 Jun 25 04:32	18° © 05'42	2°58'49	retrograde	16030 May 29 12:58	11° © 12'11	
minimum elong	16029 Jun 25 03:20	18° 5 09'54	2°57'56	asc. node	16030 May 30 04:20	11° © 10'27	
min. Earth dist.	16029 Jun 24 19:25	18° © 37'22	0.69107 AU	evening set	16030 Jun 04 01:53	8° © 51'12	
morning rise	16029 Jun 30 09:31	11° © 55'57		min. Earth dist.	16030 Jun 08 15:18	3° 5 36'20	0.68686 AU
direct	16029 Jul 04 19:24	10°508'22		inferior conj	16030 Jun 09 13:21	2°522'00	2°39'14
morning max el	16029 Jul 13 09:41	15° © 05'40	21°08'24	minimum elong	16030 Jun 09 11:29	2° © 28'19	2°38'06
desc. node	16029 Jul 14 23:04	16° © 43'13		C	16030 Jun 11 08:31	30°R Ⅱ	
	16029 Jul 25 08:56	$0^{\circ}\Omega$		morning rise	16030 Jun 14 21:10	26° Ⅱ 21'14	
morning set	16029 Aug 13 03:48	27° Ω 58'37		direct	16030 Jun 18 19:20	24° ∏ 53'19	
morning sec	16029 Aug 14 10:46	0° m)		morning max el	16030 Jun 26 08:34	29° I I06'26	19°56'02
max. Earth dist.	16029 Aug 20 10:53	9° Mg 35'50	1.43037 AU	morning max ci	16030 Jun 27 05:37	0°95	17 30 02
max. Earth dist.	10029 Aug 20 10.55	9 11/3330	1.43037 AU	daga mada		5° © 27'11	
	16020 4 27 15 20	210m-22114	1020100	desc. node	16030 Jul 01 20:15		
superior conj	16029 Aug 27 15:29	21° m/32'14			16030 Jul 18 20:38	0° U	
minimum elong	16029 Aug 27 22:42	22° m 02'54	1°29'18	morning set	16030 Jul 23 09:07	6° £ 53'43	
	16029 Sep 01 13:20	0∘ ⊽		max. Earth dist.	16030 Aug 02 23:40	23° Ω 25'31	1.44706 AU
evening rise	16029 Sep 08 06:33	11° ≏ 55'19			16030 Aug 07 02:27	0° m	
asc. node	16029 Sep 08 08:04	12° ≏ 02'07					
	16029 Sep 18 19:09	0° M ₊		superior conj	16030 Aug 08 05:48	1° m 50'23	-1°58'58
evening max el	16029 Sep 24 13:01	7° ጤ 25'14	18°03'12	minimum elong	16030 Aug 08 13:10	2° m 20'10	1°58'52
retrograde	16029 Oct 01 07:44	10° M 54'34		evening rise	16030 Aug 21 15:20	24° Mp 07'21	
evening set	16029 Oct 03 15:22	10°MJ30'11			16030 Aug 25 02:19	0∘ ত	
inferior conj	16029 Oct 10 13:37	5° M 32′24	0°05'08	asc. node	16030 Aug 26 04:44	1° ≏ 51'46	
minimum elong	16029 Oct 10 13:48	5°M31'59	0°05'26	evening max el	16030 Sep 08 03:45	20° ₽ 47'31	18°04'08
transit middle	16029 Oct 10 13:48	5° ™ 31'59	0°05'26	retrograde	16030 Sep 14 13:15	24° ₽ 08'02	
transit begin	16029 Oct 10 10:42	5° ™ 39'17		evening set	16030 Sep 17 05:16	23° ≏ 31'29	
transit end	16029 Oct 10 16:54	5° ™ 24'40		inferior conj	16030 Sep 23 12:43	18° ≏ 15'22	1°15'07
desc. node	16029 Oct 10 20:09	5°M16'59		minimum elong	16030 Sep 23 14:38	18° ⊆ 10'15	1°14'38
min. Earth dist.	16029 Oct 13 17:09	2°M35'38	0.60592 AU	min. Earth dist.	16030 Sep 26 06:39	15° ≏ 20'13	0.62864 AU
iiiii. Lattii tiist.	16029 Oct 16 22:54	2 11 0 33 38	0.00392 AU	desc. node	16030 Sep 27 17:29	13° ⊆ 2013	0.02804 AU
	16029 Oct 17 09:07				=		
morning rise		29° Ω 43'04		morning rise	16030 Sep 29 21:45	12° Ω 05'02	
direct	16029 Oct 24 00:37	27° △ 33'13		direct	16030 Oct 06 13:58	9° △ 37'48	25052100
	16029 Oct 31 13:44	0° M .		morning max el	16030 Oct 20 13:58	17° ≏ 35'57	27°53'08
morning max el	16029 Nov 07 06:17	5° ™ 24'50	27°55'32		16030 Oct 30 23:14	0° M	
	16029 Nov 25 16:16	0° ∡			16030 Nov 18 11:45	0° ∡	
asc. node	16029 Dec 05 08:51	17° ∡ ¹23'20		asc. node	16030 Nov 22 05:49	7° ∡ 14'28	
morning set	16029 Dec 10 02:30	26° ₹ 58′21		morning set	16030 Nov 23 23:39	10° ∡ ⁴44'28	
	16029 Dec 11 12:52	8°0		max. Earth dist.	16030 Nov 29 02:35	21° ∡ °29′05	1.31859 AU
max. Earth dist.	16029 Dec 16 00:27	9° ප 46'45	1.31153 AU				
				superior conj	16030 Dec 01 14:29	26° ₹ '54'55	1°17'06
superior conj	16029 Dec 17 06:00	12° る 31'09	1°30'02	minimum elong	16030 Dec 01 12:16	26° ∡ ¹42'47	1°17'34
minimum elong	16029 Dec 17 04:24	12° る 22'16	1°30'39	***************************************	16030 Dec 03 00:09	0°る	y - -
evening rise	16029 Dec 23 22:32	27°る19'37		evening rise	16030 Dec 08 09:07	11°る47'24	
5 (Simily 1150	16029 Dec 25 04:26	27 ⊙ 1937		0,011111g 1150	16030 Dec 08 09:07	0°≈	
desc rodo		0 ≈ 23°≈45'16		desc. node			
desc. node	16030 Jan 06 18:50				16030 Dec 24 15:42	11°≈41'03	24002104
	16030 Jan 10 21:33	0°) (25020125	evening max el	16031 Jan 01 19:29	21°≈27'59	24°02'04
evening max el	16030 Jan 20 08:06	11°) €16'00	25°38'27	retrograde	16031 Jan 15 08:32	28°≈11'14	
retrograde	16030 Feb 03 06:09	18°) (16′45		evening set	16031 Jan 20 06:07	27° ≈ 19′08	

min. Earth dist.	16031 Jan 26 07:04	2400021117	0.55400 AU	evening set	16031 Dec 30 13:48	7°≈12'27	
inferior conj	16031 Jan 28 05:25	23°≈11'52		min. Earth dist.	16032 Jan 07 12:50	3°≈37'10	0.54500 AU
minimum elong	16031 Jan 28 12:59	23°≈00'31	5°32'02	inferior conj	16032 Jan 08 00:56	3°≈20'13	
U			5-32-02	3			
morning rise	16031 Feb 05 21:35	19° ≈ 14'39		minimum elong	16032 Jan 08 00:31	3°≈20'47	6°01'17
direct	16031 Feb 08 07:57	18°≈59'34			16032 Jan 14 22:52	30°Rる	
asc. node	16031 Feb 18 04:07	23°≈27'11	2000 410 5	morning rise	16032 Jan 16 12:15	29° る 32'54	
morning max el	16031 Feb 18 20:25	24°≈05'32	20°04'05	direct	16032 Jan 19 19:19	29° る 08'36	
	16031 Feb 23 19:53	0°) {			16032 Jan 24 10:39	0° ≈	21022120
morning set	16031 Mar 08 19:49	23°) €17'22		morning max el	16032 Jan 31 21:04	4°≈58'18	21°33'38
	16031 Mar 12 02:30	0° Υ		asc. node	16032 Feb 05 01:26	9° ≈ 37'46	
		••			16032 Feb 17 07:45	0° ∀	
superior conj	16031 Mar 16 13:57	9° Y ′04'48	0°50'19	morning set	16032 Feb 21 05:26	8° ₩ 00'02	
minimum elong	16031 Mar 16 16:22	9° Y 16'54	0°49'52				
max. Earth dist.	16031 Mar 22 11:13	20° Ƴ 30'54	1.36883 AU	superior conj	16032 Feb 28 10:34	23° ¥ 13′00	1°11'44
desc. node	16031 Mar 22 16:48	20° Y ′57′07		minimum elong	16032 Feb 28 13:03	23° ¥ 25'55	1°11'34
evening rise	16031 Mar 26 04:50	27° Y ′23′21			16032 Mar 02 17:46	0° Y	
	16031 Mar 27 15:56	$0^{\circ}S$		max. Earth dist.	16032 Mar 03 22:17	2° Y 23'16	1.34820 AU
	16031 Apr 15 14:45	Π °0		evening rise	16032 Mar 08 01:19	10° Y 25′05	
evening max el	16031 Apr 30 16:17	18° Ⅲ 25′20	25°37'10	desc. node	16032 Mar 08 13:28	11° Y 22'24	
retrograde	16031 May 13 01:45	25° Ⅲ 34'41			16032 Mar 19 04:30	9° 8	
asc. node	16031 May 17 01:26	24° Ⅲ 30′02			16032 Apr 10 02:17	Π \circ 0	
evening set	16031 May 19 01:47	23° Ⅲ 05′13		evening max el	16032 Apr 12 05:59	2° Ⅱ 11'47	26°39'40
min. Earth dist.	16031 May 23 07:53	18° Ⅱ 27′08	0.67794 AU	retrograde	16032 Apr 25 09:17	9° Ⅱ 38'15	
inferior conj	16031 May 24 19:00	16° Ⅲ 34'42	2°08'44	evening set	16032 May 01 18:59	7° Ⅱ 05'33	
minimum elong	16031 May 24 16:50	16° Ⅱ 41'42	2°07'25	asc. node	16032 May 02 22:36	6° Ⅱ 05'18	
morning rise	16031 May 30 08:22	10° Ⅱ 44'18		min. Earth dist.	16032 May 05 19:12	3° Ⅱ 02′26	0.66452 AU
direct	16031 Jun 02 19:28	9° Ⅱ 35'36		inferior conj	16032 May 07 19:21	0° Ⅲ 39'01	1°26'24
morning max el	16031 Jun 09 14:46	13° Ⅱ 16′20	18°58'24	minimum elong	16032 May 07 17:26	0° Ⅱ 44'46	1°25'07
desc. node	16031 Jun 18 17:20	24° Ⅱ 47'14			16032 May 08 08:29	30° ₹ 8	
	16031 Jun 22 06:07	0°©		morning rise	16032 May 13 17:03	25° 8 00'29	
greatest brilliancy	16031 Jun 22 19:58	0°952'03	-0.7m	direct	16032 May 16 17:54	24° 8 09'18	
morning set	16031 Jul 02 17:12	16° © 01'31		morning max el	16032 May 23 03:16	27° 8 30'49	18°17'10
	16031 Jul 11 17:32	$0^{\circ}\Omega$			16032 May 25 10:25	$\Pi^{\circ}0$	
max. Earth dist.	16031 Jul 16 17:45	7° Ω 48'30	1.45724 AU	desc. node	16032 Jun 04 14:22	14° Ⅱ 33'55	
				morning set	16032 Jun 11 22:07	26° Ⅱ 10'59	
superior conj	16031 Jul 18 23:25	11° Ω 18'40	-2°13'37	· ·	16032 Jun 14 07:40	0°ಅ	
minimum elong	16031 Jul 19 01:31	11° Ω 26'58					
Č	16031 Jul 30 17:42	0° m)		superior conj	16032 Jun 27 08:22	20°930'37	-2°08'34
evening rise	16031 Aug 03 00:50	5° m) 19'22		minimum elong	16032 Jun 27 02:50	20° © 09'02	2°09'05
asc. node	16031 Aug 13 01:24	21° m 24'39		max. Earth dist.	16032 Jun 28 14:05	22° © 26'30	1.46001 AU
	16031 Aug 18 22:42	$0 \circ \overline{\mathbf{v}}$			16032 Jul 03 10:35	$0^{\circ}\Omega$	
evening max el	16031 Aug 22 17:59	4° ≏ 26'31	18°23'04	evening rise	16032 Jul 13 09:27	15° Ω 29'46	
retrograde	16031 Aug 29 03:45	7° £ 51'45		Ü	16032 Jul 22 17:57	0° m/	
evening set	16031 Sep 01 04:43	7° ≏ 00'18		greatest brilliancy	16032 Jul 23 17:21	1° m 29'16	-0.8m
inferior conj	16031 Sep 07 00:47	1° ≏ 28'13	2°06'08	asc. node	16032 Jul 29 22:05	10° m) 34'49	
minimum elong	16031 Sep 07 03:07	1° ≏ 21'18	2°05'26	evening max el	16032 Aug 05 04:56	18° m) 15'06	18°59'10
Z .	16031 Sep 08 06:29	30°R, M)		retrograde	16032 Aug 11 23:40	21° m 58'07	
min. Earth dist.	16031 Sep 09 05:46	28° m 52'01	0.64925 AU	evening set	16032 Aug 15 10:05	20° m) 49'58	
morning rise	16031 Sep 13 00:06	25° m 05'59		inferior conj	16032 Aug 20 22:15	15° m 03'55	2°40'27
desc. node	16031 Sep 14 14:51	23° m 57'08		minimum elong	16032 Aug 21 00:12	14° m) 57'40	2°39'47
direct	16031 Sep 19 11:46	22° m 29'56		min. Earth dist.	16032 Aug 22 13:18	12° m 59'21	0.66648 AU
	16031 Oct 02 15:04	0∘ <u>⊽</u>		morning rise	16032 Aug 26 13:30	8° m/37'13	
morning max el	16031 Oct 03 00:48	0° ≏ 24'16	27°16'16	desc. node	16032 Aug 31 12:14	6° Mp 06'18	
	16031 Oct 24 23:46	0°M		direct	16032 Sep 01 16:58	6° Mp 00'45	
morning set	16031 Nov 07 11:23	24°M 03'00		morning max el	16032 Sep 14 12:24	13° m) 37'36	26°12'35
asc. node	16031 Nov 09 02:41	27°M16'51		morning mun vi	16032 Sep 27 19:54	0∘ ত	20 1230
use. Hous	16031 Nov 10 11:09	0° ₹			16032 Oct 16 17:08	0° M	
max. Earth dist.	16031 Nov 11 20:50	2° × ⁷ 52'03	1.33124 AU	morning set	16032 Oct 20 10:25	6°M46'01	
max. Earth dist.	100511107 11 20.50	2 7 32 03	1.55124710	max. Earth dist.	16032 Oct 24 05:14	13°M57'55	1.34915 AU
superior conj	16031 Nov 15 18:24	11° ∡ '02'57	0°58'02	asc. node	16032 Oct 24 03:14 16032 Oct 25 23:29	17°M25'23	1.5 1715 AU
minimum elong	16031 Nov 15 16:04	10° x 50'29	0°58'20	asc. nouc	10032 001 23 23.29	17 1102323	
evening rise	16031 Nov 13 10:04	26° ₹ 13'57	3 30 20	superior conj	16032 Oct 29 15:11	24° M 48'09	0°32'52
evening fise	16031 Nov 24 14:30	20 メ ・13 37		minimum elong	16032 Oct 29 13:11 16032 Oct 29 13:27	24°M39'17	0°33'08
desc. node	16031 Nov 24 14.30 16031 Dec 11 12:38	28°る29'48		mmmum ciong	16032 Nov 01 03:25	0° √	3 33 00
desc. Houc	10001 1000 11 12.30	20 02340			10052 1101 01 05.25		
	16031 Dec 12 20-54	0° ∞		evening rise	16032 Nov 06 04:24	10° 🗷 33'35	
evening may el	16031 Dec 12 20:54	0°≈ 1°≈23'55	22°18'42	evening rise	16032 Nov 06 04:24	10°₹33'35 0°₹	
evening max el retrograde	16031 Dec 12 20:54 16031 Dec 14 05:42 16031 Dec 26 22:54	0°≈ 1°≈23'55 7°≈41'20	22°18'42	evening rise evening max el	16032 Nov 06 04:24 16032 Nov 16 07:21 16032 Nov 25 00:32	10° 🗗 33'35 0° る 11° る41'07	20°45'24

desc. node	16032 Nov 27 09:41	13° る 48'18			16033 Oct 24 00:41	0° ∡ ¹	
retrograde	16032 Dec 06 08:58	17° る 19'13		evening max el	16033 Nov 07 09:46	22° х 45'12	19°31'57
evening set	16032 Dec 08 20:40	17° る 04'11		desc. node	16033 Nov 14 06:48	27° 🖈 12'26	17 31 37
inferior conj	16032 Dec 17 15:56	13°る11'39	-5°29'12	retrograde	16033 Nov 17 02:49	27° 🖈 36'39	
minimum elong	16032 Dec 17 07:25		5°26'51	evening set	16033 Nov 19 01:34	27° х 25'49	
min. Earth dist.	16032 Dec 18 18:17	12° る 33'45	0.54510 AU	inferior conj	16033 Nov 27 17:04	23°×720'56	-4°06'05
morning rise	16032 Dec 25 18:07	9° る 16'28	0.54510 AC	minimum elong	16033 Nov 27 17:04 16033 Nov 27 07:28	23° 🖈 20'30 23° 🖈 36'17	4°02'15
direct	16032 Dec 30 02:48	8° る 35'32		min. Earth dist.	16033 Nov 30 02:37	21° х 48'59	0.55450 AU
morning max el	16033 Jan 12 09:27	15° る 04'51	23°20'07	morning rise	16033 Dec 05 11:25	18° 🖈 59'27	0.55 150 710
asc. node	16033 Jan 21 22:44	26° る 57'55	23 20 07	direct	16033 Dec 10 19:35	17° 🖈 55'28	
use. Hode	16033 Jan 23 20:50	0° ≈		morning max el	16033 Dec 10 17:59	24° × 55'58	25°08'49
morning set	16033 Feb 04 17:06	22° ≈ 43'53		morning max or	16033 Dec 29 10:29	0°る	23 00 19
morning set	16033 Feb 04 17:00	0° ∀		asc. node	16034 Jan 08 19:59	ა ට 15° ට 11'06	
	10033160 00 01.31	٥ ٨		ase. Houe	16034 Jan 16 16:37	0°≈	
superior conj	16033 Feb 11 14:20	7° ¥ 38'17	1°26'44	morning set	16034 Jan 20 04:58	7°≈23'51	
minimum elong	16033 Feb 11 16:14	7°) 48'33	1°26'55	morning sec	100313411 20 01.50	, , , , , , , , , , , , , , , , , , , ,	
max. Earth dist.	16033 Feb 14 16:23	14°\(\frac{1}{12}\)'56	1.33125 AU	superior conj	16034 Jan 26 22:43	22°≈13'29	1°35'28
	16033 Feb 19 10:33	23°\(\)\(\)\(\)56'44	1.55125 AU		16034 Jan 26 23:42	22°≈18'54	1°35'58
evening rise	16033 Feb 19 10.33	23 γ (3044		minimum elong max. Earth dist.	16034 Jan 28 17:44	22 ≈18 34 26°≈09'53	1.31897 AU
				max. Earth dist.			1.3189/ AU
desc. node	16033 Feb 23 10:07	1° Ƴ 37'19			16034 Jan 30 12:07	0°) (51102	
	16033 Mar 12 18:33	0°8		evening rise	16034 Feb 03 05:28	7°) € 51'02	
evening max el	16033 Mar 25 19:15	15° 8 40'38	27°21'43	desc. node	16034 Feb 10 06:47	21°) 36'58	
retrograde	16033 Apr 08 10:43	23° 8 13'16			16034 Feb 15 00:46	0° Υ	
evening set	16033 Apr 15 03:20	20° 8 44'00		evening max el	16034 Mar 08 06:34		27°36'16
min. Earth dist.	16033 Apr 18 23:19	17° 8 12'40	0.64705 AU		16034 Mar 09 16:52	9° 8	
asc. node	16033 Apr 19 19:52	16° 8 17'39		retrograde	16034 Mar 22 04:51	6° 8 10'05	
inferior conj	16033 Apr 21 11:50	14° 8 28'18	0°31'02	evening set	16034 Mar 29 00:23	3° 8 51'50	
minimum elong	16033 Apr 21 10:59	14° 8 30'38	0°30'14	min. Earth dist.	16034 Apr 01 18:37	0° 8 47'08	0.62647 AU
morning rise	16033 Apr 27 20:40	9° 8 03'29			16034 Apr 02 14:27	30° ŖƳ	
direct	16033 Apr 30 12:14	8° 8 27'03		inferior conj	16034 Apr 04 17:27	27° Ƴ 55'11	-0°38'10
morning max el	16033 May 06 19:48	11° 8 42'03	17°52'59	minimum elong	16034 Apr 04 18:44	27° Y 52'05	0°37'57
	16033 May 19 15:48	$\Pi^{\circ}0$		asc. node	16034 Apr 06 17:12	26° Y 02'31	
desc. node	16033 May 22 11:19	4° Ⅱ 39'32		morning rise	16034 Apr 11 15:59	22° Y 46'25	
morning set	16033 May 24 06:28	7° Ⅱ 38'58		direct	16034 Apr 13 23:34	22° Y 21′22	
-	16033 Jun 06 23:01	0ංම		morning max el	16034 Apr 20 13:28	25° Ƴ 41'24	17°46'17
				•	16034 Apr 24 05:31	0°8	
superior conj	16033 Jun 07 01:43	0°ഇ10'44	-1°45'09	morning set	16034 May 06 15:20	20° 8 16'01	
minimum elong	16033 Jun 06 17:04	29° Ⅲ 36′15	1°45'07	desc. node	16034 May 09 08:10	24° 8 58'20	
max. Earth dist.	16033 Jun 11 09:57	7°902'57	1.45522 AU		16034 May 12 06:00	0°II	
evening rise	16033 Jun 22 23:48	24°958'45				-	
evening rise	16033 Jun 26 06:48	0°Ω		superior conj	16034 May 18 15:22	10° ∏ 47'47	-1°10'28
greatest brilliancy	16033 Jul 07 14:14	16° £ 53′25	-0.6m	minimum elong	16034 May 18 08:49	10° Ⅱ 20'34	
asc. node	16033 Jul 16 18:52	29° Ω 14'27	0.0111	max. Earth dist.	16034 May 25 03:20	21° I I23'21	1.44353 AU
asc. node	16033 Jul 17 10:37	0° m)		max. Earth dist.	16034 May 30 14:09	0°95	1.44333710
evening max el	16033 Jul 19 10:42	2° Mp 08'27	19°51'18	evening rise	16034 Jun 02 11:13	4° © 27'37	
retrograde	16033 Jul 26 22:13	6° My 21'13	17 31 16	evening rise	16034 Jun 19 16:38	0°Ω	
evening set	16033 Jul 30 18:45	4° m) 55'25		evening max el	16034 Jul 02 10:28	16° Ω 02'38	20°57'23
evening set		4 11√33 23 30°RΩ		asc. node		10 δ 02 38	20 37 23
inforior coni	16033 Aug 04 07:23		2000122		16034 Jul 03 15:43 16034 Jul 10 21:13		
inferior conj	16033 Aug 05 02:12	28° Ω 57'01	3°00'33	retrograde		20°Ω54'41 19°Ω11'13	
minimum elong	16033 Aug 05 03:22	28° Ω 53'05	2°59'57	evening set	16034 Jul 15 04:34		2000126
min. Earth dist.	16033 Aug 06 03:21	27° Ω 32'19	0.67951 AU	inferior conj	16034 Jul 20 10:08	13° Ω 01'43	3°08'26
morning rise	16033 Aug 10 11:31	22° Ω 31'18		minimum elong	16034 Jul 20 10:21	13° Ω 00'57	3°07'48
direct	16033 Aug 16 04:30	20° Ω 01'59		min. Earth dist.	16034 Jul 20 21:43	12° Ω 21'32	0.68789 AU
desc. node	16033 Aug 18 09:37	20° Ω 21′20		morning rise	16034 Jul 25 15:51	6° Ω 40'41	
morning max el	16033 Aug 27 23:26	27° Ω 05'41	24°51'34	direct	16034 Jul 30 21:05	4° Ω 24'38	
	16033 Aug 30 16:39	0° m)		desc. node	16034 Aug 05 06:58	6° Ω 19'59	
	16033 Sep 21 10:37	0∘ ⊽		morning max el	16034 Aug 10 10:30	10° Ω 41'57	23°22'53
morning set	16033 Oct 02 16:55	18° ≏ 45'23			16034 Aug 25 18:52	0° ™	
max. Earth dist.	16033 Oct 06 05:40	25° ≙ 06'07	1.37124 AU	morning set	16034 Sep 14 02:33	29° m 50'34	
	16033 Oct 08 21:00	0°M₊			16034 Sep 14 04:48	0。 ⊽	
asc. node	16033 Oct 12 20:14	7°M36'38		max. Earth dist.	16034 Sep 18 04:14	6° ≏ 46'12	1.39536 AU
superior conj	16033 Oct 13 01:51	8°ML04'06	0°02'08	superior conj	16034 Sep 25 22:29	20° ≏ 41'21	-0°33'00
minimum elong	16033 Oct 13 01:41	8°ML03'17	0°02'31	minimum elong	16034 Sep 26 00:56	20° ≏ 52'45	0°32'22
behind sun begin	16033 Oct 12 19:10	7°M31'25		asc. node	16034 Sep 29 16:56	27° ≏ 46'44	
behind sun end	16033 Oct 13 08:12	8°M35'13			16034 Sep 30 20:48	0°M	
evening rise	16033 Oct 21 08:57	24°M41'26		evening rise	16034 Oct 05 06:31	8°M30'18	
~				-			

	16034 Oct 17 12:01	0° ∡		evening rise	16035 Sep 18 17:32	21° ≏ 51'16	
evening max el	16034 Oct 21 08:26	4° ∡ ³38'59	18°40'48		16035 Sep 23 04:24	0° M	
retrograde	16034 Oct 29 14:13	8° ₰ ⁴49'00		evening max el	16035 Oct 04 16:33	17° M ₊14'51	18°11'06
evening set	16034 Oct 31 12:20	8° ∡ ³36′12		retrograde	16035 Oct 11 21:00	20°M55'24	
desc. node	16034 Nov 01 04:01	8° ∡ ¹26'16		evening set	16035 Oct 14 00:26	20° ™ 36′19	
inferior conj	16034 Nov 08 13:48	4° ∡ 11'10	-2°22'31	desc. node	16035 Oct 19 01:16	17° M 44'41	
minimum elong	16034 Nov 08 08:02	4° ∡ ¹21'54	2°19'35	inferior conj	16035 Oct 21 08:22	15° M 49'39	-0°44'04
min. Earth dist.	16034 Nov 11 16:23	1° ∡ 753′13	0.57138 AU	minimum elong	16035 Oct 21 06:47	15°M53'04	0°42'56
	16034 Nov 14 13:45	30°RM₊		min. Earth dist.	16035 Oct 24 14:18	13°ML01'30	0.59278 AU
morning rise	16034 Nov 16 00:32	29° ™ 13'41		morning rise	16035 Oct 28 09:47	10°M16'58	
direct	16034 Nov 22 02:11	27°M43'23		direct	16035 Nov 03 21:59	8° M 20'47	
	16034 Nov 29 17:05	0° ∡ ¹		morning max el	16035 Nov 18 04:44	16°ML03'37	27°39'28
morning max el	16034 Dec 06 07:10	5° х 07′29	26°40'28	. 8	16035 Nov 29 15:05	0° ∡ 7	
	16034 Dec 24 10:43	0°る		asc. node	16035 Dec 13 14:13	23° × ⁷ 25'01	
asc. node	16034 Dec 26 17:09	4° る 03'37		ase. node	16035 Dec 16 22:14	0°궁	
morning set	16035 Jan 04 15:13	21°る55'00		morning set	16035 Dec 19 22:00	6° る 12'35	
morning set	16035 Jan 08 07:45	0°≈		morning set	10033 BCC 17 22.00	0 01233	
	10033 Juli 00 07.43	0 ~		superior conj	16035 Dec 26 20:59	21° る 29'11	1°34'43
superior conj	16035 Jan 11 09:35	6°≈52'21	1°38'06	minimum elong	16035 Dec 26 19:54	21° る 23'05	1°35'23
	16035 Jan 11 09:33			2		21 3 23 03 20° る 15'41	1.31003 AU
minimum elong	16035 Jan 11 09:31	6°≈51'57	1°38'46 1.31180 AU	max. Earth dist.	16035 Dec 26 07:51	20 ⊘ 1341 0° ≈	1.51005 AU
max. Earth dist.		8°≈13'13	1.31180 AU		16035 Dec 30 16:27		
evening rise	16035 Jan 18 07:27	22°≈01'19		evening rise	16036 Jan 02 14:16	6° ≈ 21'49	
	16035 Jan 22 04:31	0° ∀			16036 Jan 14 18:53	0°) {	
desc. node	16035 Jan 28 03:30	11°) 15'04		desc. node	16036 Jan 15 00:16	0°) €22'43	
	16035 Feb 09 02:21	0° Υ		evening max el	16036 Jan 31 13:05	22° ∺ 25'51	26°23'51
evening max el	16035 Feb 18 13:29	10° Y 59'35	27°17'42	retrograde	16036 Feb 14 12:42	29°) 34′02	
retrograde	16035 Mar 04 14:06	18° Y 19'33		evening set	16036 Feb 20 20:07	27° ¥ 58′05	
evening set	16035 Mar 11 07:10	16° Ƴ 19'33		min. Earth dist.	16036 Feb 25 02:25	25° ∺ 20'40	0.58195 AU
min. Earth dist.	16035 Mar 15 03:47	13° Ƴ 34'04	0.60412 AU	inferior conj	16036 Feb 28 05:28	23° ∺ 02′26	-3°30'41
inferior conj	16035 Mar 18 08:38	10° Y 50′30	-2°00'22	minimum elong	16036 Feb 28 13:27	22°)(47'41	3°27'43
minimum elong	16035 Mar 18 13:07	10° Ƴ 40'56	1°58'39	morning rise	16036 Mar 07 10:07	18°) 34′11	
asc. node	16035 Mar 24 14:34	6° Y 29'03		direct	16036 Mar 09 09:16	18° ∺ 21′07	
morning rise	16035 Mar 25 22:30	6° Ƴ 00'41		asc. node	16036 Mar 10 11:56	18° ¥ 25′27	
direct	16035 Mar 28 00:08	5° Ƴ 43'24		morning max el	16036 Mar 17 14:31	22°) €24'24	18°29'34
morning max el	16035 Apr 04 04:59	9° Ƴ 19'31	17°57'58		16036 Mar 23 12:52	$0^{\circ}\mathbf{\Upsilon}$	
	16035 Apr 17 17:36	0° ႘		morning set	16036 Apr 02 11:35	17° Ƴ 48'23	
morning set	16035 Apr 19 18:54	3° 8 45'02			16036 Apr 08 20:49	9° 8	
desc. node	16035 Apr 26 04:57	15° 8 25'56			•		
	1			superior conj	16036 Apr 11 14:46	5° 8 07'24	0°03'49
superior conj	16035 Apr 30 04:36	22° 8 29'33	-0°32'20	minimum elong	16036 Apr 11 15:00	5° 8 08'31	0°03'24
minimum elong	16035 Apr 30 01:48	22° 8 17'18	0°32'26	behind sun begin	16036 Apr 11 08:00	4° 8 36'08	
	16035 May 04 13:26	0°II		behind sun end	16036 Apr 11 22:01	5° 8 40'48	
max. Earth dist.	16035 May 07 16:59	5° Ⅱ 15'37	1.42611 AU	desc. node	16036 Apr 12 01:40	5° 8 57'35	
evening rise	16035 May 13 11:20	14° Ⅲ 35'18	12011110	max. Earth dist.	16036 Apr 19 02:02	18° 8 27'12	1.40470 AU
e vennig rise	16035 May 23 12:13	0.ಪ		evening rise	16036 Apr 23 07:38	25° 8 36'36	1.10170110
evening max el	16035 Jun 15 04:53	29° © 56'58	22°13'36	evening rise	16036 Apr 25 23:56	0°П	
evening max er	16035 Jun 15 06:06	0°Ω	22 13 30		16036 May 16 05:26	0°©	
asc. node	16035 Jun 20 12:39	4° Ω 14'54		evening max el	16036 May 27 19:40	13°951'20	23034152
retrograde	16035 Jun 24 19:00	5° Ω 33'15		asc. node	16036 Jun 06 09:38	20°504'43	23 34 32
C	16035 Jun 29 13:46	3° Ω 33'06				20°50443	
evening set				retrograde	16036 Jun 07 14:16		
::	16035 Jul 02 19:17	30°Rூ 27°€1 4101	2905110	evening set	16036 Jun 12 20:40	17°956'16	0.60007.411
inferior conj	16035 Jul 04 19:56	27°514'01		min. Earth dist.	16036 Jun 17 14:56	12°520'15	0.68997 AU
minimum elong	16035 Jul 04 19:13	27°516'32		inferior conj	16036 Jun 18 05:38	11°529'44	2°51'46
min. Earth dist.	16035 Jul 04 18:17		0.69142 AU	minimum elong	16036 Jun 18 04:07	11°534'58	2°50'47
morning rise	16035 Jul 10 00:29	20°959'53		morning rise	16036 Jun 23 11:32	5°523'56	
direct	16035 Jul 14 17:26	19° © 01'16		direct	16036 Jun 27 16:21	3°5544'50	
desc. node	16035 Jul 23 04:15	23°938'11		morning max el	16036 Jul 05 19:12	8°921'45	20°35'57
morning max el	16035 Jul 24 00:07	24°926'37	21°55'19	desc. node	16036 Jul 09 01:28	11°955'25	
	16035 Jul 28 22:54	0 \circ Ω			16036 Jul 22 08:26	0 \circ Ω	
	16035 Aug 19 04:10	0° ™		morning set	16036 Aug 04 01:03	19° Ω 07'45	
morning set	16035 Aug 25 12:25	9° m ,55′22			16036 Aug 10 23:25	0° m)	
max. Earth dist.	16035 Aug 31 07:11	19° m 19'22	1.41861 AU	max. Earth dist.	16036 Aug 12 16:39	2° Mp 44'50	1.43822 AU
	16035 Sep 06 14:20	0∘ ⊽					
				superior conj	16036 Aug 19 04:38	13° m 21'28	
superior conj	16035 Sep 08 00:44	2° ჲ 29'59	-1°09'47	minimum elong	16036 Aug 19 12:27	13° m 53'58	1°43'03
minimum elong	16035 Sep 08 06:25	2° ≏ 54'52	1°09'01		16036 Aug 28 23:01	0∘ ⊽	
asc. node	16035 Sep 16 13:36	17° ≏ 52'03		evening rise	16036 Aug 31 13:27	4° ≙ 32'45	

asc. node	16036 Sep 02 10:15	7° Ω 48'52			16037 Aug 03 14:04	0° m)	
asc. node	16036 Sep 02 10:13	0°M		evening rise	16037 Aug 03 14:04 16037 Aug 13 12:54	0 my 16° my 20'41	
evening max el	16036 Sep 17 05:57	0°M23'01	18°01'17	asc. node	16037 Aug 13 12:34 16037 Aug 20 06:54	27° m/32'10	
retrograde	16036 Sep 23 19:40	3°M47'19	18 01 17	asc. node	16037 Aug 20 00:34	0° ⊽	
evening set	16036 Sep 26 06:42	3°M18'13		evening max el	16037 Aug 21 19:20 16037 Aug 31 20:49	0 — 13° ≏ 53'17	18°10'02
evening set	16036 Oct 01 01:38	30°R Ω		retrograde	16037 Sep 07 05:30	17° 2 14'28	18 10 02
inferior conj	16036 Oct 01 01:38	28° £ 12'06	0°37'15	evening set	16037 Sep 07 03:30	16° ⊆ 32'02	
minimum elong	16036 Oct 02 22:13	28° ⊆ 12'00 28° ⊆ 09'21	0°37'08	inferior conj	16037 Sep 16 03:21	10 ⊆ 32 02 11° ⊆ 09'01	1°38'59
desc. node	16036 Oct 02 23:21 16036 Oct 04 22:35	26° ⊆ 11'05	0 37 08	minimum elong	16037 Sep 16 05:34	11° ⊆ 09'01 11° ⊆ 02'48	1°38'20
min. Earth dist.	16036 Oct 04 22:33	25° £ 13'40	0.61568 AU	min. Earth dist.		8° £ 19'45	0.63773 AU
		23 ≥ 13 40 22° ♀ 12'20	0.01308 AU		16037 Sep 18 16:07	8 ≅ 1943 5° Ω 16'30	0.03773 AU
morning rise	16036 Oct 09 13:13	19° £ 54'22		desc. node	16037 Sep 21 19:57	4° £ 52′20	
direct	16036 Oct 16 05:32		27950115	morning rise	16037 Sep 22 08:04		
morning max el	16036 Oct 30 09:44	27° Ω 50'14	27°59'15	direct	16037 Sep 28 22:51	2° £ 20'01	27041112
	16036 Nov 01 11:51	0°M.		morning max el	16037 Oct 12 19:11	10° ₽ 19'01	2/*41.13
	16036 Nov 22 09:43	0° 🔏			16037 Oct 28 07:14	0°M√	
asc. node	16036 Nov 29 11:11	13° × 707'30		1	16037 Nov 14 18:43	0° ⊼ ¹	
morning set	16036 Dec 02 23:21	20° ∡ 12'20		asc. node	16037 Nov 16 08:05	3° ⋌ '03'58	
	16036 Dec 07 13:45	0° ろ		morning set	16037 Nov 16 16:50	3° ⋌ ¹47'34	
max. Earth dist.	16036 Dec 08 13:12	2° ろ 08'20	1.31381 AU	max. Earth dist.	16037 Nov 21 12:09	13° ∡ ′41'39	1.32325 AU
superior conj	16036 Dec 10 07:05	5° る 59'33	1°25'18	superior conj	16037 Nov 24 13:53	20° ∡ 17'12	1°09'45
minimum elong	16036 Dec 10 05:11	5°る49'01	1°25'51	minimum elong	16037 Nov 24 11:33	20°×1712 20°×704'31	1°10'09
evening rise	16036 Dec 17 00:01	20°る48'23	1 23 31	minimum clong	16037 Nov 29 00:36	0°중	1 100)
evening rise	16036 Dec 21 09:04	20°≈		evening rise	16037 Dec 01 10:48	5°る15'45	
desc. node	16036 Dec 31 21:05	0 ∞ 18°≈49'10		evening rise	16037 Dec 01 10.48	0°≈	
desc. Hode	16037 Jan 09 06:25	0°)		desc. node	16037 Dec 14 10:02	0 ∞ 6° ≈ 18'47	
avanina may al		3° ∺ 00'04	24950129				22017151
evening max el	16037 Jan 12 04:03	9° H 54'42	24°59'28	evening max el	16037 Dec 24 13:41	13°≈00'07	23-17-51
retrograde	16037 Jan 25 23:13			retrograde	16038 Jan 06 20:23	19°≈34'26	
evening set	16037 Jan 31 11:47	8°) (46′28	0.56060.444	evening set	16038 Jan 11 05:01	18°≈53'16	0.54000.441
min. Earth dist.	16037 Feb 05 16:16	6°) €01'17	0.56262 AU	min. Earth dist.	16038 Jan 18 00:19	15° ≈ 41'34	
inferior conj	16037 Feb 08 05:17	4°) €23'27		inferior conj	16038 Jan 19 09:09	14°≈54'07	
minimum elong	16037 Feb 08 14:36	4°) €08'31	4°53'12	minimum elong	16038 Jan 19 13:58	14°≈47'10	5°51'3'/
morning rise	16037 Feb 16 19:55	0°) 16′28		morning rise	16038 Jan 28 00:17	11° ≈ 02'30	
direct	16037 Feb 18 23:04	0°) €03'44		direct	16038 Jan 30 18:01	10° ≈ 44'32	
asc. node	16037 Feb 25 09:16	2° ∺ 08′25		morning max el	16038 Feb 10 23:17	16° ≈ 09'53	20°39'37
morning max el	16037 Feb 28 13:54	4°) 44'40	19°22'58	asc. node	16038 Feb 12 06:36	17° ≈ 29'41	
	16037 Mar 16 10:20	0° Υ			16038 Feb 21 02:55	0° ∀	
morning set	16037 Mar 17 13:12	2° Y 13'42		morning set	16038 Mar 01 20:37	16° 米 51'44	
					16038 Mar 08 04:39	0° Υ	
superior conj	16037 Mar 25 17:29	18° Y ′29′05	0°35'03				
minimum elong	16037 Mar 25 19:28	18° Ƴ 38'41	0°34'32	superior conj	16038 Mar 09 08:34	2° Y '22'49	1°00'11
desc. node	16037 Mar 29 22:21	26° Y ′29'42		minimum elong	16038 Mar 09 11:07	2° Y 35'46	0°59'50
	16037 Mar 31 19:53	9° 8		max. Earth dist.	16038 Mar 14 15:34	12° Y 53′29	1.35962 AU
max. Earth dist.	16037 Apr 01 07:58	0° 8 55'07	1.38171 AU	desc. node	16038 Mar 16 19:01	16° Ƴ 58'33	
evening rise	16037 Apr 05 00:53	7° 8 31'15		evening rise	16038 Mar 18 12:26	20° Y 11'16	
	16037 Apr 18 21:29	Π \circ 0			16038 Mar 24 00:53	9° 8	
evening max el	16037 May 10 09:02	27° Ⅱ 45'47	24°54'44		16038 Apr 12 21:11	Π $^{\circ}0$	
	16037 May 12 18:49	0 \circ ∞		evening max el	16038 Apr 22 22:39	11° Ⅲ 37'49	26°05'55
retrograde	16037 May 22 05:52	4° 5 940'59		retrograde	16038 May 05 16:47	18° Ⅱ 56'34	
asc. node	16037 May 24 06:42	4° © 23'37		asc. node	16038 May 11 03:50	16° Ⅱ 58'45	
evening set	16037 May 27 23:39	2° © 15'34		evening set	16038 May 11 20:59	16° Ⅲ 25′08	
	16037 May 30 05:09	30° ŖⅡ		min. Earth dist.	16038 May 16 00:24	12° Ⅱ 01'58	0.67266 AU
min. Earth dist.	16037 Jun 01 09:40	27° Ⅱ 16′33	0.68363 AU	inferior conj	16038 May 17 17:04	9° Ⅱ 55'18	1°52'21
inferior conj	16037 Jun 02 13:21	25° Ⅱ 45'00	2°27'41	minimum elong	16038 May 17 14:55	10° Ⅲ 02′02	1°51'00
minimum elong	16037 Jun 02 11:18	25° Ⅲ 51'49	2°26'27	morning rise	16038 May 23 09:37	4° Ⅱ 09'34	
morning rise	16037 Jun 07 23:13	19° Ⅱ 48'33		direct	16038 May 26 16:10	3° Ⅱ 08'39	
direct	16037 Jun 11 16:27	18° Ⅲ 29'11		morning max el	16038 Jun 02 06:24	6° Ⅱ 40′03	18°38'49
morning max el	16037 Jun 18 21:19	22° I I27'13	19°29'33	desc. node	16038 Jun 12 19:43	20° II 29'00	
	16037 Jun 25 05:58	0° ©			16038 Jun 19 00:37	0° ©	
desc. node	16037 Jun 25 22:38	0°956'11		morning set	16038 Jun 23 20:23	7° © 31'37	
greatest brilliancy	16037 Jul 01 13:38	8°955'57	-0.6m	<i>5</i>	16038 Jul 08 06:06	0°Ω	
morning set	16037 Jul 14 04:59	28°501'28		max. Earth dist.	16038 Jul 09 02:37	1° Ω 19'59	1.45932 AU
	16037 Jul 15 11:51	0°Ω				- 00.707	
max. Earth dist.	16037 Jul 26 07:37	16° Ω 49'28	1.45223 AU	superior conj	16038 Jul 09 21:29	2° Ω 33'35	-2°13'59
with	20 01.31	00.720		minimum elong	16038 Jul 09 20:12	2° Ω 28'35	
superior conj	16037 Jul 30 09:18	23° Ω 15'59	-2°07'22	evening rise	16038 Jul 25 11:44	27° Ω 06'17	- 1107
minimum elong	16037 Jul 30 05:18	23° Ω 39'06		0,011111 1150	16038 Jul 27 07:25	0°m)	
minimum ciong	1005, 341 50 15.00	25 065700	2 0, 30		10050 Jul 21 01.25	יעייי	

greatest brilliancy	16038 Aug 01 10:59	8° m) 10'11	-0.9m		16039 Jun 30 23:34	0°Ω	
asc. node	16038 Aug 07 03:36	16° Mp 56'56	0.5111	evening rise	16039 Jul 05 11:10	6° Ω 55'19	
evening max el	16038 Aug 15 10:05	27° mp 38'17	18°36'22	greatest brilliancy	16039 Jul 17 20:35	25° Ω 48'38	-0.7m
<i>Q</i>	16038 Aug 18 07:59	0∘ <u>⊽</u>		<i>y</i>	16039 Jul 20 17:15	0° m)	
retrograde	16038 Aug 21 22:37	1° ≏ 09'16		asc. node	16039 Jul 25 00:21	5° m) 55'34	
evening set	16038 Aug 25 03:32	0° ≙ 10'58		evening max el	16039 Jul 29 19:08	11° m)30'14	19°19'28
C	16038 Aug 25 10:31	30°R, Mp		retrograde	16039 Aug 05 19:54	15° m 24'02	
inferior conj	16038 Aug 30 19:52	24° m/33'02	2°22'32	evening set	16039 Aug 09 10:38	14°Mp08'18	
minimum elong	16038 Aug 30 22:06	24° m 26'09	2°21'50	inferior conj	16039 Aug 14 20:26	8° Mp 16'54	2°50'31
min. Earth dist.	16038 Sep 01 19:05	22° m 08'47	0.65713 AU	minimum elong	16039 Aug 14 22:05	8° m) 11'30	2°49'54
morning rise	16038 Sep 05 15:33	18° m)08'12		min. Earth dist.	16039 Aug 16 05:31	6° Mp 28′43	0.67266 AU
desc. node	16038 Sep 08 17:20	16° Mp 11'33		morning rise	16039 Aug 20 08:56	1° m 50'22	
direct	16038 Sep 12 00:15	15° m 30'39			16039 Aug 23 02:40	30° R Ω	
morning max el	16038 Sep 25 06:25	23° m 19'20	26°51'44	direct	16039 Aug 26 08:15	29° Ω 16′09	
	16038 Oct 01 05:19	0∘ ⊽		desc. node	16039 Aug 26 14:44	29° Ω 16′26	
	16038 Oct 21 15:04	0° M			16039 Aug 29 19:43	0° m)	
morning set	16038 Oct 30 23:36	16°M52'04		morning max el	16039 Sep 07 17:43	6°₩39'50	25°39'37
asc. node	16038 Nov 03 04:57	23°M09'38			16039 Sep 25 21:20	0∘ ⊽	
max. Earth dist.	16038 Nov 04 01:58	24°M54'50	1.33830 AU	morning set	16039 Oct 13 16:08	29° ≏ 17'54	
	16038 Nov 06 13:51	0° ∡ ¹			16039 Oct 14 01:22	0° M	
				max. Earth dist.	16039 Oct 17 06:39	5° ™ 59'37	1.35823 AU
superior conj	16038 Nov 08 15:09	4° ∡ 16'42	0°48'05	asc. node	16039 Oct 21 01:44	13°M20'12	
minimum elong	16038 Nov 08 12:58	4° ₹ 05'14	0°48'21				
evening rise	16038 Nov 15 20:50	19° ∡ ³39'58		superior conj	16039 Oct 23 08:06	17°M51'10	0°20'28
	16038 Nov 20 21:42	0°ಕ		minimum elong	16039 Oct 23 06:54	17° M 45'09	0°20'46
desc. node	16038 Dec 05 14:58	22° る 32'11			16039 Oct 29 06:21	0° ∡ ¹	
evening max el	16038 Dec 06 02:38	23° る 01'23	21°36'59	evening rise	16039 Oct 31 04:06	3° х 56′03	
retrograde	16038 Dec 18 07:10	29° る 02'51			16039 Nov 14 23:02	0°ಕ	
evening set	16038 Dec 21 09:12	28° る 41'18		evening max el	16039 Nov 18 03:24		20°11'22
inferior conj	16038 Dec 30 00:57	24° ろ 51'08		desc. node	16039 Nov 22 12:02	7° る 05'35	
minimum elong	16038 Dec 29 20:30	24° ろ 57'21	5°54'27	retrograde	16039 Nov 28 18:51	8° ろ 55'38	
min. Earth dist.	16038 Dec 30 05:40	24°₹44'32	0.54390 AU	evening set	16039 Nov 30 23:26	8° る 43'12	
morning rise	16039 Jan 07 08:22	21° る 02'42		inferior conj	16039 Dec 09 18:39	4° る 46'32	
direct	16039 Jan 11 02:30	20°る31'57		minimum elong	16039 Dec 09 08:46	5°る01'16	
morning max el	16039 Jan 23 17:51	26° る 39'48	22°17'31	min. Earth dist.	16039 Dec 11 11:40	3°る45'26	0.54809 AU
	16039 Jan 26 21:08	0° ≈		morning rise	16039 Dec 17 17:23	0°る42'35	
asc. node	16039 Jan 30 03:56	4°≈12'01		T	16039 Dec 20 16:41	30°₹ ⋌ ¹	
	16039 Feb 13 13:14	0°) {		direct	16039 Dec 22 12:51	29° ₹ 52'28	
morning set	16039 Feb 14 07:20	1° ¥ 35′21			16039 Dec 24 08:42	0°る	24007116
	16020 E-L 21 00.22	16° ¥ 38'52	1010153	morning max el	16040 Jan 05 03:15	6°る35'12 21°る57'06	24-07-16
superior conj	16039 Feb 21 08:32	16 X 58 52 16° X 51'01	1°18'51	asc. node	16040 Jan 17 01:12	21 3 3700 0° ≈	
minimum elong max. Earth dist.	16039 Feb 21 10:49 16039 Feb 25 05:30	24° ★ 31'01	1.34046 AU	morning set	16040 Jan 21 16:51 16040 Jan 29 19:21	0°≈ 16°≈18'58	
max. Earm dist.	16039 Feb 23 03.30 16039 Feb 27 20:28	24 χ 43 11 0° Υ	1.54040 AU	morning set	16040 Jan 29 19.21 16040 Feb 05 01:49	0° ∺	
evening rise	16039 Mar 01 14:45	3° Υ 26'49			10040 100 03 01.49	0 /(
desc. node	16039 Mar 03 15:38	7° Υ 19'56		superior conj	16040 Feb 05 14:34	1° ₩ 09'37	1°31'12
dese. Hode	16039 Mar 16 21:38	0°8		minimum elong	16040 Feb 05 16:06	1° ¥ 18′02	1°31'31
evening max el	16039 Apr 05 12:32	25° 8 18'58	27°00'43	max. Earth dist.	16040 Feb 08 03:11	6° ¥ 37'34	1.32545 AU
	16039 Apr 11 04:03	0°Ⅱ	00 .5	evening rise	16040 Feb 13 04:29	17° 米 09'33	20 10 110
retrograde	16039 Apr 18 21:46	2° Ⅱ 48'52		desc. node	16040 Feb 18 12:18	27°\(\frac{17}{29'30}\)	
evening set	16039 Apr 25 10:42	0° Ц 17'07			16040 Feb 19 21:00	0° Υ	
	16039 Apr 25 19:14	30°R ႘			16040 Mar 10 08:03	0°8	
asc. node	16039 Apr 28 01:05	27° 8 54'07		evening max el	16040 Mar 18 01:20	8° 8 37'45	27°31'41
min. Earth dist.	16039 Apr 29 09:00	26° 8 27'47	0.65747 AU	retrograde	16040 Mar 31 19:58	16° 8 09'09	
inferior conj	16039 May 01 14:27	23° 8 54'21	1°04'38	evening set	16040 Apr 07 14:32	13° 8 43'42	
minimum elong	16039 May 01 12:51	23° 8 58'56	1°03'29	min. Earth dist.	16040 Apr 11 09:27	10° 8 24'35	0.63865 AU
morning rise	16039 May 07 16:29	18° 8 21'05		asc. node	16040 Apr 13 22:22	7° 8 46'44	
direct	16039 May 10 13:18	17° 8 36'26		inferior conj	16040 Apr 14 02:43	7° 8 35'24	0°03'26
morning max el	16039 May 16 20:51	20° 8 53'46	18°04'48	minimum elong	16040 Apr 14 02:37	7° 8 35'38	0°02'59
-	16039 May 24 00:45	0°II		transit middle	16040 Apr 14 02:37	7° 8 35'38	0°02'59
desc. node	16039 May 30 16:42	10° Ⅲ 24'36		transit begin	16040 Apr 13 23:32	7° 8 43'40	
morning set	16039 Jun 04 12:56	18° Ⅱ 14'47		transit end	16040 Apr 14 05:42	7° 8 27'37	
	16039 Jun 11 20:03	0 \circ \odot		morning rise	16040 Apr 20 17:04	2° 8 17'04	
				direct	16040 Apr 23 05:12	1° 8 45'44	
superior conj	16039 Jun 19 07:58	11° 9 52'18	-2°00'33	morning max el	16040 Apr 29 14:13	5° 8 01'08	17°48'00
minimum elong	16039 Jun 19 00:19	11° 5 22'16	2°00'49	morning set	16040 May 16 08:20	0° Ⅱ 14'14	
max. Earth dist.	16039 Jun 21 23:18	16°900'20	1.45890 AU		16040 May 16 04:58	$\Pi^{\circ}0$	

desc. node	16040 May 16 13:37	0°Д36'38			16041 May 08 14:38	0°Ⅲ	
superior conj	16040 May 29 08:56	21° ∏ 54'02	-1°31'20	superior conj	16041 May 10 08:40	2° ∏ 59'03	-0°54'19
minimum elong	16040 May 29 00:44	21° Ⅱ 20′51	1°31'08	minimum elong	16041 May 10 03:42	2° Ⅱ 37'58	0°54'14
_	16040 Jun 03 10:23	0 \circ \odot		max. Earth dist.	16041 May 17 10:41	14° Ⅱ 43'07	1.43667 AU
max. Earth dist.	16040 Jun 03 18:51	0° © 33'32	1.45108 AU	evening rise	16041 May 24 13:18	26° I I00'00	
evening rise	16040 Jun 13 22:08	16° © 18'50			16041 May 27 03:25	0 \circ	
	16040 Jun 22 23:44	$0^{\circ}\Omega$			16041 Jun 16 22:10	$0^{\circ}\Omega$	
asc. node	16040 Jul 10 21:10	24° Ω 18'56		evening max el	16041 Jun 24 19:30	9° Ω 17'42	21°28'50
evening max el	16040 Jul 11 22:20	25° Ω 24'01	20°17'50	asc. node	16041 Jun 27 18:01	11° Ω 55'16	
retrograde	16040 Jul 19 18:55	29° Ω 52'25		retrograde	16041 Jul 03 17:42	14° Ω 28'54	
evening set	16040 Jul 23 20:03	28° Ω 18'50	2005115	evening set	16041 Jul 08 05:49	12° Ω 38'05	2000124
inferior conj	16040 Jul 29 02:21	22°Ω15'21	3°05'15	inferior conj	16041 Jul 13 11:19	6° Ω 24'03	3°08'24
minimum elong min. Earth dist.	16040 Jul 29 03:07 16040 Jul 29 21:36	22°Ω12'42 21°Ω09'33	3°04'40 0.68368 AU	minimum elong min. Earth dist.	16041 Jul 13 11:07 16041 Jul 13 17:11	6°Ω24'42 6°Ω03'31	3°07'45 0.68990 AU
morning rise	16040 Jul 29 21.36 16040 Aug 03 09:52	15° Ω 51'24	0.08308 AU	morning rise	16041 Jul 18 16:13	0°Ω05'35	0.08990 AU
direct	16040 Aug 08 21:52	$13^{\circ} \Omega 27'25$		morning risc	16041 Jul 18 18:48	30°RS	
desc. node	16040 Aug 12 12:07	14°Ω18'24		direct	16041 Jul 23 16:06	27° © 56'45	
morning max el	16040 Aug 20 04:43	20°Ω12'16	24°14'18	ancer	16041 Jul 29 04:17	0°Ω	
	16040 Aug 28 14:11	0° m)		desc. node	16041 Jul 30 09:27	0° Ω 53'44	
	16040 Sep 18 01:17	0∘ ⊽		morning max el	16041 Aug 02 16:40	3° Ω 52'48	22°45'08
morning set	16040 Sep 24 14:16	10° ჲ 55'37		_	16041 Aug 22 16:46	0° m	
max. Earth dist.	16040 Sep 28 05:57	17° ≏ 20'14	1.38144 AU	morning set	16041 Sep 05 14:06	21°M)36'32	
	16040 Oct 05 02:26	0° M		max. Earth dist.	16041 Sep 10 05:42	29° m 21'34	1.40544 AU
					16041 Sep 10 14:45	0∘ ত	
superior conj	16040 Oct 05 13:19	0° ™ 51'57					
minimum elong	16040 Oct 05 14:08	0°M55'55	0°11'53	superior conj	16041 Sep 18 02:42	13° Ω 10'10	
behind sun begin	16040 Oct 05 09:25	0°M33'22		minimum elong	16041 Sep 18 06:31	13° Ω 27'25	0°47'53
behind sun end	16040 Oct 05 18:51	1°M18'30		asc. node	16041 Sep 23 19:08	23° Ω 40'26	
asc. node	16040 Oct 06 22:28 16040 Oct 14 06:06	3°M31'33 17°M57'22		ovenina rice	16041 Sep 27 03:25	0°ጤ 1°ጤ36'21	
evening rise	16040 Oct 14 06.06 16040 Oct 20 12:14	17 IIL3722 0° √ 7		evening rise evening max el	16041 Sep 27 23:43 16041 Oct 13 21:52	27°M16'41	18°25'39
evening max el	16040 Oct 30 18:37	15° × ⁷ 03'02	19°07'22	evening max er	16041 Oct 17 08:45	27 IIU10 41 0° 🗷	10 23 37
desc. node	16040 Nov 08 09:12	19° х 35'38	19 07 22	retrograde	16041 Oct 21 15:46	1° √ 12'45	
retrograde	16040 Nov 08 19:51	19° ∡ ³36'16		evening set	16041 Oct 23 15:32	0° ∡ 757'54	
evening set	16040 Nov 10 17:07	19° ∡ ′25′13		desc. node	16041 Oct 26 06:26	29°M56'55	
inferior conj	16040 Nov 19 03:27	15° ∡ 11'56	-3°22'51		16041 Oct 26 04:02	30°RM	
minimum elong	16040 Nov 18 19:12	15° ∡ °26′00	3°19'09	inferior conj	16041 Oct 31 09:41	26° M23'51	-1°39'14
min. Earth dist.	16040 Nov 21 21:54	13° ∡ 19′06	0.56090 AU	minimum elong	16041 Oct 31 05:49	26°M31'33	1°37'04
morning rise	16040 Nov 26 18:42	10° ∡ ³35'31		min. Earth dist.	16041 Nov 03 15:13		0.58008 AU
direct	16040 Dec 02 10:46	9° ∡ 120'55		morning rise	16041 Nov 07 16:37	21°M10'23	
morning max el	16040 Dec 16 13:11	16° ₹ 32'05	25°51'04	direct	16041 Nov 13 23:30	19°M28'37	25210102
1-	16040 Dec 27 11:58	0°궁 10°궁28'39		morning max el	16041 Nov 28 06:03	27°M₀02'15 0°⊀	27°10'02
asc. node	16041 Jan 02 22:25 16041 Jan 12 20:17	10 ⊘ 28 39		asc. node	16041 Dec 01 02:32 16041 Dec 20 19:32	0 x . 29° x 34'51	
morning set	16041 Jan 13 06:45	0 ∞ 0° ≈ 56'14		asc. node	16041 Dec 21 00:53	0° る	
morning sec	10011 3411 15 00.15	0 / 0 00 1 1		morning set	16041 Dec 28 15:45	0 0 15° る 22'36	
superior conj	16041 Jan 20 00:15	15° ≈ 47′20	1°37'20	5 5 5			
minimum elong	16041 Jan 20 00:47	15° ≈ 50′21	1°37'54	superior conj	16042 Jan 04 11:35	0° ≈ 26′28	1°37'25
max. Earth dist.	16041 Jan 21 07:05	18° ≈ 38′20	1.31527 AU	minimum elong	16042 Jan 04 11:04	0° ≈ 23'35	1°38'05
	16041 Jan 26 13:04	0°) €			16042 Jan 04 06:51	0°≈	
evening rise	16041 Jan 27 02:41	1° 米 11'19		max. Earth dist.	16042 Jan 04 14:18		1.31038 AU
desc. node	16041 Feb 04 08:58	17° ¥ 20′57		evening rise	16042 Jan 11 06:59	15° ≈ 26'42	
	16041 Feb 11 19:58	0°Υ			16042 Jan 18 12:06	0° ∀	
evening max el	16041 Feb 28 10:52	21°Υ20'52	27°32'31	desc. node	16042 Jan 22 05:41	6°) (47'16	
retrograde	16041 Mar 14 10:24	28° Y '47'03 26° Y '35'21		arranina marral	16042 Feb 07 09:54	0° Υ 3° Υ 17'33	26050152
evening set min. Earth dist.	16041 Mar 21 05:50 16041 Mar 25 00:17	26° \ \ 35'21 \ 23° \ \ \ 40'17	0.61711 AU	evening max el retrograde	16042 Feb 10 14:45 16042 Feb 24 15:41	10° Υ 33'34	20 38 33
inferior conj	16041 Mar 28 02:34	23 γ 40 17 20° Υ 49'36		evening set	16042 Feb 24 13.41 16042 Mar 03 05:28	8° Υ 43'07	
minimum elong	16041 Mar 28 05:05	20° Υ 43'47		min. Earth dist.	16042 Mar 07 04:58	6°Υ02'32	0.59450 AU
asc. node	16041 Mar 31 19:42	17° Υ 40'55	,	inferior conj	16042 Mar 10 10:19	3° Υ 27'26	
morning rise	16041 Apr 04 07:32	15° Ƴ 48'53		minimum elong	16042 Mar 10 16:20	3° Y 15′18	
direct	16041 Apr 06 12:19	15° Ƴ 27'36		5	16042 Mar 15 07:00	30° ₹	
morning max el	16041 Apr 13 07:26	18° Ƴ 52'51	17°48'59	morning rise	16042 Mar 18 06:47	28°) 46′48	
	16041 Apr 21 10:55	9° 8		asc. node	16042 Mar 18 17:04	28°) 41′08	
morning set	16041 Apr 29 01:47	13° 8 15'05		direct	16042 Mar 20 06:37	28°) €31'53	
desc. node	16041 May 03 10:25	20° 8 59'37			16042 Mar 25 00:02	0 ° Υ	

	16042 Mar 27 20.55	2° Ƴ 18'28	10000151		16042 Mar. 11 02:40	150 40 (122	10040125
morning max el morning set	16042 Mar 27 20:55 16042 Apr 12 11:28	2° \begin{picture}(18.28) \\ 27^{\circ} \begin{picture}\gamma 00'03\end{picture}	18°08'51	morning max el	16043 Mar 11 02:40 16043 Mar 21 10:08	15°) €06'22 0° °	18°49'25
morning set	16042 Apr 14 01:57	0° 8		morning set	16043 Mar 27 08:28	11° Υ 14'54	
desc. node	16042 Apr 20 07:09	11° 8 29'15		morning set	10043 Wai 27 08.28	11 1434	
dese. Hode	10042 Apr 20 07.07	11 02/13		superior conj	16043 Apr 05 01:01	28° Y ′04'19	0°17'45
superior conj	16042 Apr 22 07:14	15° 8 05'50	-0°16'32	minimum elong	16043 Apr 05 02:09	28° Υ '09'42	0°17'16
minimum elong	16042 Apr 22 05:52	14° 8 59'45		minimum ciong	16043 Apr 06 01:39	0°8	0 17 10
max. Earth dist.	16042 Apr 29 21:38	28° 8 16'20		desc. node	16043 Apr 07 03:50	2° 8 01'54	
max. Earth dist.	16042 Apr 30 22:26	0°II	1.11/2/110	max. Earth dist.	16043 Apr 12 05:02	11° 8 09'29	1.39500 AU
evening rise	16042 May 04 21:27	6°∏29'26		evening rise	16043 Apr 16 03:00	17° 8 55'22	1.57500710
evening rise	16042 May 20 07:21	0°95		evening rise	16043 Apr 23 12:19	0°II	
evening max el	16042 Jun 07 11:59	23° © 11'37	22°48'03		16043 May 14 16:53	0°©	
asc. node	16042 Jun 14 14:57	28°\$28'58	003	evening max el	16043 May 21 02:08	7° 5 07'21	24°09'31
retrograde	16042 Jun 17 14:36	29° © 07'23		retrograde	16043 Jun 01 08:20	13° © 42'46	
evening set	16042 Jun 22 14:11	27°500'58		asc. node	16043 Jun 01 11:58	13°9542'40	
inferior conj	16042 Jun 27 21:16	20°538'20	3°00'52	evening set	16043 Jun 06 19:36	11° © 23'21	
minimum elong	16042 Jun 27 20:11	20°542'06	3°00'01	min. Earth dist.	16043 Jun 11 10:14	6° ॐ 03'03	0.68788 AU
min. Earth dist.	16042 Jun 27 14:07	21° © 03'12	0.69131 AU	inferior conj	16043 Jun 12 06:23	4°954'50	2°42'54
morning rise	16042 Jul 03 02:03	14°9527'20		minimum elong	16043 Jun 12 04:35	5° © 00'54	2°41'48
direct	16042 Jul 07 13:47	12° © 36'46		C	16043 Jun 16 06:54	30° Ŗ Ⅱ	
morning max el	16042 Jul 16 08:10	17° © 41'13	21°20'13	morning rise	16043 Jun 17 13:38	28° Ⅲ 52'44	
desc. node	16042 Jul 17 06:42	18° © 39'03		direct	16043 Jun 21 13:32	27° Ⅲ 21'51	
	16042 Jul 26 10:56	$0^{\circ}\Omega$			16043 Jun 27 09:39	0∘ ©	
	16042 Aug 15 18:31	0° m		morning max el	16043 Jun 29 06:00	1° 5 40'36	20°05'52
morning set	16042 Aug 16 14:01	1° Mp 16'26		desc. node	16043 Jul 04 03:53	7° © 16'32	
max. Earth dist.	16042 Aug 23 10:43	12° Mp 15'28	1.42747 AU		16043 Jul 20 03:03	$0^{\circ}\Omega$	
	-			morning set	16043 Jul 26 20:38	10° Ω 14'19	
superior conj	16042 Aug 30 19:47	24° Mp 35'12	-1°24'51	max. Earth dist.	16043 Aug 05 22:50	25° Ω 59'52	1.44502 AU
minimum elong	16042 Aug 31 02:40	25° Mp 04'38	1°24'07		16043 Aug 08 10:57	0° m y	
	16042 Sep 02 22:57	0∘ ⊽					
asc. node	16042 Sep 10 15:45	13° ≏ 42'33		superior conj	16043 Aug 11 13:33	5° m 01'35	-1°55'21
evening rise	16042 Sep 11 04:52	14° ≏ 41'43		minimum elong	16043 Aug 11 21:12	5° Mg 32'45	1°55'07
	16042 Sep 19 22:11	0° M		evening rise	16043 Aug 24 16:39	27° m 01'30	
evening max el	16042 Sep 27 08:47	10° ML $07'55$	18°04'40		16043 Aug 26 10:19	0∘ ⊽	
retrograde	16042 Oct 04 05:38	13°M39'36		asc. node	16043 Aug 28 12:24	3° ₽ 34'04	
evening set	16042 Oct 06 12:10	13°M16'41		evening max el	16043 Sep 10 23:15	23° ჲ 26'32	18°02'50
desc. node	16042 Oct 13 03:44	8°M42'45		retrograde	16043 Sep 17 09:29	26° ≏ 47'36	
inferior conj	16042 Oct 13 12:53	8°M21'44	-0°07'14	evening set	16043 Sep 20 00:14	26° ₽ 13'01	
minimum elong	16042 Oct 13 12:39	8°M22'15	0°06'43	inferior conj	16043 Sep 26 09:41	20° ≏ 59'18	1°05'49
transit middle	16042 Oct 13 12:39	8°M22'15	0°06'43	minimum elong	16043 Sep 26 11:25	20° ჲ 54'43	1°05'23
transit begin	16042 Oct 13 09:37	8°M29'13		min. Earth dist.	16043 Sep 29 05:15	18° ჲ 02'51	0.62534 AU
transit end	16042 Oct 13 15:40	8°M15'16		desc. node	16043 Sep 30 01:05	17° ≙ 14'03	
min. Earth dist.	16042 Oct 16 17:18	5°M26'35	0.60252 AU	morning rise	16043 Oct 02 20:14	14° ≙ 51'27	
morning rise	16042 Oct 20 09:56	2°M36'33		direct	16043 Oct 09 12:37	12° ≏ 26'30	
direct	16042 Oct 27 00:53	0°M29'59		morning max el	16043 Oct 23 13:51	20° ≏ 24'08	27°55'55
morning max el	16042 Nov 10 06:48		27°52'36		16043 Oct 31 20:41	0° M	
	16042 Nov 26 20:52	0° ∡			16043 Nov 19 21:31	0° ∡ ¹	
asc. node	16042 Dec 07 16:33	19° ₰ 06'02		asc. node	16043 Nov 24 13:29	8° ₹ 55'02	
morning set	16042 Dec 12 20:29	29° ∡ ³33′17		morning set	16043 Nov 26 18:47	13° ∡ °23′04	
	16042 Dec 13 01:34	0°る		max. Earth dist.	16043 Dec 02 00:32	24° ∡ ¹26′11	1.31716 AU
max. Earth dist.	16042 Dec 18 21:23	12° る 40'32	1.31096 AU			.	
		. —		superior conj	16043 Dec 04 07:39		1°19'27
superior conj	16042 Dec 19 22:41	15° る 01'37		minimum elong	16043 Dec 04 05:30		1°19'58
minimum elong	16042 Dec 19 21:13	14° る 53'25	1°32'06		16043 Dec 04 13:35	0°る	
evening rise	16042 Dec 26 15:16	29° る 50'43		evening rise	16043 Dec 11 01:42	14°る18'28	
	16042 Dec 26 17:00	0° ≈			16043 Dec 18 18:38	0° ≈	
desc. node	16043 Jan 09 02:28	25°≈39'12		desc. node	16043 Dec 26 23:20	13°≈43'47	24017122
	16043 Jan 11 20:46	0°)(2505111.0	evening max el	16044 Jan 04 23:05	24° ≈ 39'20	24°17'22
evening max el	16043 Jan 23 10:54	14°) (22'09	25°51'10	, ,	16044 Jan 12 10:20	0°){	
retrograde	16043 Feb 06 09:31	21°) 24'41		retrograde	16044 Jan 18 13:51	1° ¥ 25'39	
evening set	16043 Feb 12 09:49	20°) € 00'42	0.57210.433	evening set	16044 Jan 23 15:43	0°) 29'22	
min. Earth dist.	16043 Feb 16 23:56	17°) €21'48		min F4l- U 4	16044 Jan 24 21:29	30°R≈	0.55600 417
inferior conj	16043 Feb 19 22:30	15° 光 19'23 15° 光 03'41		min. Earth dist.	16044 Jan 29 10:47		0.55602 AU
minimum elong	16043 Feb 20 07:31		4 05 51	inferior conj	16044 Jan 31 13:25	26°≈18'32	
morning rise	16043 Feb 28 08:15	11° 米 00'05		minimum elong	16044 Jan 31 21:40	26°≈05'57	3 23 03
direct	16043 Mar 02 07:57	10°) 47'42		morning rise	16044 Feb 09 05:32	22°≈19'03	
asc. node	16043 Mar 05 14:25	11° ¥ 23′04		direct	16044 Feb 11 13:42	22° ≈ 04'45	

minimum elong

morning rise

16045 Jan 10 11:48

16045 Jan 18 23:17

6°≈30'26

2°≈44'02

6°00'50

min. Earth dist.

morning rise

15°**る**53'42

12°る30'40

16045 Dec 21 22:25

16045 Dec 29 04:54

0.54447 AU

1.	16046 1 00 00 50	11075004			16046 D 01 00 10	260 72000	1020127
direct	16046 Jan 02 09:52	11°る52'34		inferior conj	16046 Dec 01 00:12	26° ₹ ′28′05	
morning max el	16046 Jan 15 13:04	18°る16'55	23°03'42	minimum elong	16046 Nov 30 14:20	26° ∡ ¹43'32	
asc. node	16046 Jan 24 06:25	28° る 58'49		min. Earth dist.	16046 Dec 03 06:01	25° ⋌ '03'51	0.55262 AU
	16046 Jan 24 22:36	0° ≈		morning rise	16046 Dec 08 19:40	22° ∡ 11'35	
morning set	16046 Feb 07 09:33	25°≈12'52		direct	16046 Dec 14 00:51	21° ∡ 11'12	
	16046 Feb 09 15:00	0° ∀		morning max el	16046 Dec 27 21:22	28° ∡ '07'19	24°53'20
					16046 Dec 29 18:12	0°₹	
superior conj	16046 Feb 14 07:40	10° ∺ 09'17	1°24'52	asc. node	16047 Jan 11 03:38	17° る 04'53	
minimum elong	16046 Feb 14 09:41	10°) € 20′07	1°24'59		16047 Jan 18 03:29	0° ≈	
max. Earth dist.	16046 Feb 17 14:28	17° ∺ 06'55	1.33346 AU	morning set	16047 Jan 22 21:28	9° ≈ 53'40	
evening rise	16046 Feb 22 06:18	26° ∺ 34'53					
	16046 Feb 24 00:26	$0^{\circ}\mathbf{\Upsilon}$		superior conj	16047 Jan 29 15:28	24° ≈ 43'17	1°34'33
desc. node	16046 Feb 25 17:49	3° Ƴ 16′24		minimum elong	16047 Jan 29 16:37	24° ≈ 49'33	1°34'59
	16046 Mar 13 20:21	0°B		max. Earth dist.	16047 Jan 31 14:53	29° ≈ 02'59	1.32046 AU
evening max el	16046 Mar 28 18:44	18° 8 22'33	27°17'11		16047 Feb 01 01:23	0° ∀	
retrograde	16046 Apr 11 08:54	25° 8 55'03		evening rise	16047 Feb 05 23:56	10° ¥ 26′20	
evening set	16046 Apr 18 00:37	23° 8 24'56		desc. node	16047 Feb 12 14:29	23° ¥ 18'54	
min. Earth dist.	16046 Apr 21 21:07	19° 8 49'00	0.64983 AU		16047 Feb 16 08:10	$0^{\circ}\Upsilon$	
asc. node	16046 Apr 22 03:35	19° 8 31'37			16047 Mar 09 19:01	0°8	
inferior conj	16046 Apr 24 07:51	17° 8 07'01	0°40'21	evening max el	16047 Mar 11 06:34	1° 8 28'14	27°36'14
minimum elong	16046 Apr 24 06:47	17° 8 10'01	0°39'27	retrograde	16047 Mar 25 04:05	8° 8 58'14	2, 301.
morning rise	16046 Apr 30 14:50	11° 8 39'54	0 3, 2,	evening set	16047 Mar 31 23:29	6° 8 38'02	
direct	16046 May 03 07:41	11° 8 01'28		min. Earth dist.	16047 Apr 04 17:50	3° B 29'45	0.62966 AU
morning max el	16046 May 09 15:02	14° 8 16'50	17°55'28	inferior conj	16047 Apr 07 15:18	0° 8 38'05	
morning max cr	16046 May 20 22:26	0°Ⅱ	17 33 28	minimum elong	16047 Apr 07 16:11	0° 8 35'55	
1 1-	•	6° П 18'40		minimum clong		0 O 33 33	0 2043
desc. node	16046 May 24 18:59			1	16047 Apr 08 06:44	30° ₹ 1 29° Y 16'19	
morning set	16046 May 27 08:32	10° ∏ 32'44		asc. node	16047 Apr 09 00:53		
	16046 Jun 08 07:20	0		morning rise	16047 Apr 14 11:37	25° Y 26'38	
				direct	16047 Apr 16 20:21	25° Y ′00′03	
superior conj	16046 Jun 10 10:10	3°9522'17		morning max el	16047 Apr 23 08:41	28° Y 18'33	17°46'08
minimum elong	16046 Jun 10 01:35	2°5548'13	1°49'40		16047 Apr 24 22:47	0°8	
max. Earth dist.	16046 Jun 14 08:21	9° © 33'35	1.45639 AU	morning set	16047 May 09 14:07	23° 8 00'54	
evening rise	16046 Jun 26 10:24	28°5516'08		desc. node	16047 May 11 15:50	26° 8 35'56	
	16046 Jun 27 13:33	0 \circ Ω			16047 May 13 15:14	Π °0	
greatest brilliancy	16046 Jul 10 14:08	19° Ω 34'54	-0.6m				
	16046 Jul 18 03:48	0° ™		superior conj	16047 May 21 20:22	13° Ⅱ 49'51	
asc. node	16046 Jul 19 02:37	1° Mp 10'23		minimum elong	16047 May 21 13:18	13° Ⅱ 20'44	1°15'54
evening max el	16046 Jul 22 08:04	4° Mp 45'23	19°42'35	max. Earth dist.	16047 May 28 02:25	23° Ⅱ 58′09	1.44571 AU
retrograde	16046 Jul 29 16:36	8° m 52'49			16047 May 31 21:56	0	
evening set	16046 Aug 02 11:35	7° ™ 29'42		evening rise	16047 Jun 05 21:10	7° 5 42'28	
inferior conj	16046 Aug 07 19:34	1° m 33'10	2°58'14		16047 Jun 20 20:02	0 $^{\circ}$ Ω	
minimum elong	16046 Aug 07 20:52	1° m 28'49	2°57'39	evening max el	16047 Jul 05 08:45	18° Ω 39'41	20°46'45
	16046 Aug 08 23:26	30° Ŗ Ω		asc. node	16047 Jul 05 23:27	19° Ω 15'32	
min. Earth dist.	16046 Aug 08 22:48	0° ™ 02'07	0.67791 AU	retrograde	16047 Jul 13 15:35	23° Ω 25′09	
morning rise	16046 Aug 13 05:38	25° Ω 07'06		evening set	16047 Jul 17 21:21	21° Ω 44'10	
direct	16046 Aug 19 00:21	22° Ω 36′13		inferior conj	16047 Jul 23 03:01	15° Ω 36′17	3°07'53
desc. node	16046 Aug 20 17:14	22° Ω 47'40		minimum elong	16047 Jul 23 03:23	15° Ω 35′00	3°07'18
morning max el	16046 Aug 30 23:10	29° Ω 45'32	25°04'15	min. Earth dist.	16047 Jul 23 16:35	14° Ω 49'23	0.68700 AU
	16046 Aug 31 04:51	0° m y		morning rise	16047 Jul 28 09:08	9° Ω 14'29	
	16046 Sep 22 16:57	0∘ ⊽		direct	16047 Aug 02 16:10	6° Ω 56'13	
morning set	16046 Oct 05 18:30	21° ≏ 41'59		desc. node	16047 Aug 07 14:35	8° Ω 32'12	
max. Earth dist.	16046 Oct 09 07:04	28° ≏ 05'08	1.36783 AU	morning max el	16047 Aug 13 10:04	13° Ω 20′37	23°36'12
	16046 Oct 10 07:49	0° M ₊		Č	16047 Aug 26 21:32	0° m)	
asc. node	16046 Oct 15 03:56	9° ™ 15'31			16047 Sep 15 13:23	0∘ <u>⊽</u>	
		,		morning set	16047 Sep 17 07:29	2° ≏ 55'56	
superior conj	16046 Oct 15 22:50	10° M 48′22	0°07'07	max. Earth dist.	16047 Sep 21 05:41	9° ₽ 39'54	1.39178 AU
minimum elong	16046 Oct 15 22:22	10°M46'04	0°07'28	Durun dist.	200.7 Sep 21 00.41	, — 3,73 4	1.5,1,0110
behind sun begin	16046 Oct 15 16:35	10°M17'34	5 0 / 20	superior conj	16047 Sep 28 21:50	23° ≏ 32'24	-0°27'28
behind sun end	16046 Oct 16 04:09	10 IL1/34		minimum elong	16047 Sep 28 21:50 16047 Sep 28 23:50	23° 2 41'45	
evening rise	16046 Oct 24 02:50	27°M16'36		asc. node	16047 Sep 28 25.30 16047 Oct 02 00:39	23 ≗ 41 43 29° £ 26'22	0 4033
evening 1150		27 IIL1030 0° √		asc. nouc		0°M	
avanie 1	16046 Oct 25 11:12		100/1102	oveniei	16047 Oct 02 07:40		
evening max el	16046 Nov 10 08:50	25° х 43′29	19°41'23	evening rise	16047 Oct 08 01:39	11°M09'15	
desc. node	16046 Nov 16 14:27	0° ろ 00'49		ovenie 1	16047 Oct 18 10:44	0° द्र ⁷ 7° • ₹2012 6	1004/157
	16046 Nov 16 13:34	0°る		evening max el	16047 Oct 24 05:42	7° 🗷 30'36	18°46'57
retrograde	1 (O 4 (NT) OO OO OO						
	16046 Nov 20 07:30	0°る41'30		retrograde	16047 Nov 01 16:09	11° х 46'16	
evening set	16046 Nov 22 07:22	0° る 30'27		desc. node	16047 Nov 03 11:37	11° ∡ ³35′12	
evening set				•			

inferior conj	16047 Nov 11 17:47	7° ∡ 12'00	-2°38'20	minimum elong	16048 Oct 23 07:06	18° M 48'23	0°56'40
minimum elong	16047 Nov 11 11:19	7° ∡ 12°0°	2°35'09	min. Earth dist.	16048 Oct 26 15:20	15°ML58'57	0.58938 AU
min. Earth dist.	16047 Nov 14 18:40	5° х ⁷ 00′13	0.56852 AU	morning rise	16048 Oct 30 12:06	13°ML15'51	
morning rise	16047 Nov 19 05:44	2° ∡ ′20′08		direct	16048 Nov 05 23:02	11°M23'23	
direct	16047 Nov 25 05:08	0° х 53′59		morning max el	16048 Nov 20 06:01	19° M .04'06	27°33'07
morning max el	16047 Dec 09 09:33	8° ∡ 14'34	26°28'39	C	16048 Nov 29 12:41	0° ∡ ¹	
C	16047 Dec 25 16:12	ರ°0		asc. node	16048 Dec 14 21:51	25° ∡ 10′22	
asc. node	16047 Dec 29 00:46	5° る 52'35			16048 Dec 17 09:15	0°ರ	
morning set	16048 Jan 07 08:04	24° る 26'52		morning set	16048 Dec 21 15:29	8° る 47'03	
	16048 Jan 09 21:08	0° ≈		max. Earth dist.	16048 Dec 28 04:35	23° る 09'55	1.30995 AU
superior conj	16048 Jan 14 02:05	9° ≈ 22'14	1°38'06	superior conj	16048 Dec 28 13:30	23° る 59'51	1°35'37
minimum elong	16048 Jan 14 02:10	9° ≈ 22'44	1°38'44	minimum elong	16048 Dec 28 12:34	23° る 54'35	1°36'18
max. Earth dist.	16048 Jan 14 20:47	11° ≈ 06′38	1.31255 AU		16048 Dec 31 05:52	0° ≈ ≈	
evening rise	16048 Jan 21 01:01	24° ≈ 34'52		evening rise	16049 Jan 04 07:13	8° ≈ 54'09	
	16048 Jan 23 15:49	0°)			16049 Jan 15 00:59	0°)	
desc. node	16048 Jan 30 11:10	13° 米 00′55		desc. node	16049 Jan 16 07:54	2° ¥ 13'51	
	16048 Feb 10 00:34	0° Y		evening max el	16049 Feb 02 14:54	25° ∺ 27'30	26°33'53
evening max el	16048 Feb 21 14:16	13° Y ′53'43	27°22'39		16049 Feb 08 09:17	0° Y	
retrograde	16048 Mar 06 14:34	21° Y °15'08		retrograde	16049 Feb 16 14:53	2° Y 37'55	
evening set	16048 Mar 13 08:30	19° Ƴ 11'55		evening set	16049 Feb 23 00:18	0° Ƴ 57'57	
min. Earth dist.	16048 Mar 17 04:22	16° Ƴ 24'19	0.60751 AU		16049 Feb 24 17:25	30° ₹	
inferior conj	16048 Mar 20 08:47	13° Ƴ 38'25	-1°47'12	min. Earth dist.	16049 Feb 27 04:27	28° ∺ 20′13	
minimum elong	16048 Mar 20 12:44	13° Y ′29′50	1°45'43	inferior conj	16049 Mar 02 08:30	25° ¥ 57′03	
asc. node	16048 Mar 25 22:11	9° Ƴ 32'13		minimum elong	16049 Mar 02 16:01	25°) 42′52	3°14'06
morning rise	16048 Mar 27 20:20	8° Y 45'41		morning rise	16049 Mar 10 11:10	21° ¥ 25'41	
direct	16048 Mar 29 22:45	8° Y ′27'25		direct	16049 Mar 12 10:18	21° 米 12′16	
morning max el	16048 Apr 06 00:43	12° Y ′00′16	17°55'03	asc. node	16049 Mar 12 19:32	21° 米 12'48	
	16048 Apr 18 02:25	0° 8		morning max el	16049 Mar 20 11:24	25° ¥ 10'45	18°23'34
morning set	16048 Apr 21 15:12	6° 8 23'00			16049 Mar 24 12:18	0° Υ	
desc. node	16048 Apr 27 12:38	17° 8 02'26		morning set	16049 Apr 05 06:11	20° Y 21'44	
					16049 Apr 10 07:49	0°8	
superior conj	16048 May 02 06:09	25° 8 22'08		desc. node	16049 Apr 14 09:20	7° 8 33'29	
minimum elong	16048 May 02 02:47	25° 8 07'35	0°38'08		1.010.1. 11.12.20		000110
The state of	16048 May 04 22:55	0°П	1 10001 177	superior conj	16049 Apr 14 13:26	7° 8 52'17	
max. Earth dist.	16048 May 09 16:49	7° Ⅱ 55'47	1.42901 AU	minimum elong	16049 Apr 14 13:18	7° 8 51'38	0°01'49
evening rise	16048 May 15 18:38	17° Ⅱ 42'22		behind sun begin	16049 Apr 14 06:04	7° 8 18'30	
	16048 May 23 18:19	ია ⊙		behind sun end	16049 Apr 14 20:32	8° 8 24'41	1 40001 411
	16048 Jun 14 17:54	0°Ω	22901146	max. Earth dist.	16049 Apr 22 02:14	21° 8 12'38	1.40801 AU
evening max el asc. node	16048 Jun 17 03:46 16048 Jun 21 20:20	2° Ω 33'32 6° Ω 27'18	22 01 40	evening rise	16049 Apr 26 11:41 16049 Apr 27 08:23	28° ႘ 35'07 0°Ⅱ	
retrograde	16048 Jun 26 13:38	8°Ω03'13			16049 May 17 07:01	0ಂಣ ೧ π	
evening set	16048 Jul 01 06:43	6° Ω 05'19		evening max el	16049 May 30 18:51	16° 5 27'39	23°22'44
evening set	16048 Jul 06 09:01	30°RS		asc. node	16049 Jun 08 17:18	22°S29'28	23 22 44
inferior conj	16048 Jul 06 12:37	29°5947'26	3°06'28	retrograde	16049 Jun 10 09:26	22°541'30	
minimum elong	16048 Jul 06 12:02	29°549'27	3°05'44	evening set	16049 Jun 15 14:04	20°928'52	
min. Earth dist.	16048 Jul 06 12:53	29° © 46'31	0.69121 AU	inferior conj	16049 Jun 20 22:28	14°903'11	2°54'34
morning rise	16048 Jul 11 17:12	23°S32'12	0.05121710	minimum elong	16049 Jun 20 21:03	14°908'03	2°53'35
direct	16048 Jul 16 11:56	21° © 30'57		min. Earth dist.	16049 Jun 20 09:42	14°9547'13	0.69044 AU
desc. node	16048 Jul 24 11:53	25°\$39'39		morning rise	16049 Jun 26 04:00	7°955'58	
morning max el	16048 Jul 25 23:12	27°904'07	22°08'00	direct	16049 Jun 30 10:33	6°9513'57	
5 5	16048 Jul 28 16:44	$0^{\circ}\Omega$		morning max el	16049 Jul 08 17:21	10°957'54	20°47'05
	16048 Aug 19 10:38	0° m)		desc. node	16049 Jul 11 09:08	13° © 49'17	
morning set	16048 Aug 27 20:57	13° m 09'54			16049 Jul 23 12:44	$0^{\circ}\Omega$	
max. Earth dist.	16048 Sep 02 07:54	22° m/05'20	1.41528 AU	morning set	16049 Aug 07 12:16	22° Ω 29'05	
	16048 Sep 06 23:48	0∘ <u>v</u>		C	16049 Aug 12 07:20	0° m)	
	1			max. Earth dist.	16049 Aug 15 16:08	5° m 22'49	1.43558 AU
superior conj	16048 Sep 10 03:05	5° ≙ 28'45	-1°04'17		-		
minimum elong	16048 Sep 10 08:17	5° £ 51'45		superior conj	16049 Aug 22 10:29	16° m 29'13	-1°38'55
asc. node	16048 Sep 17 21:18	19° ≏ 32'45		minimum elong	16049 Aug 22 18:10	17° m 01'23	1°38'19
evening rise	16048 Sep 20 14:30	24° ≏ 35'13		-	16049 Aug 30 08:04	0∘ ⊽	
	16048 Sep 23 12:43	0° M		evening rise	16049 Sep 03 13:01	7° ≏ 23'34	
evening max el			18°14'14	asc. node	16049 Sep 04 17:57	9° ₽ 31'12	
	16048 Oct 06 12:40	20° ™ 00'53	10 14 14	asc. Hode	100-7 Бер 0- 17.57	, —s::=	
retrograde	16048 Oct 06 12:40 16048 Oct 13 20:19	20°11.00'53 23°11.45'13	10 1414	ase. Houe	16049 Sep 17 08:56	0° M	
retrograde evening set			10 14 14	evening max el	-	0° M	18°01'35
•	16048 Oct 13 20:19	23°M45'13	10 1414		16049 Sep 17 08:56	0° M	18°01'35
evening set	16048 Oct 13 20:19 16048 Oct 15 22:41	23°M45'13 23°M27'23		evening max el	16049 Sep 17 08:56 16049 Sep 20 01:33	0°M 3°M05′00	18°01'35

	16040 Oct 05 20:20	1° M .00'19	0026111	ratra arada	16050 Cap 10 01:14	19° ≙ 53'14	
inferior conj	16049 Oct 05 20:30	0°M58'20	0°26'12	retrograde	16050 Sep 10 01:14	19 2 33 14 19° 2 12'56	
minimum elong	16049 Oct 05 21:19	0 11638 20 30°R ≏	0 20 12	evening set	16050 Sep 12 19:36 16050 Sep 18 23:36	19 ≗ 12 30 13° ≗ 52'21	1°30'49
desc. node	16049 Oct 06 21:00 16049 Oct 07 06:13	30 K == 29° £ 37'19		inferior conj minimum elong	16050 Sep 18 23.36 16050 Sep 19 01:43	13 ≗ 32 21 13° ≗ 46'29	1°30'49 1°30'13
min. Earth dist.	16049 Oct 07 00:13	29° ⊆ 3719	0.61227 AU	min. Earth dist.	16050 Sep 19 01.45	13 = 40 29 11° ⊆ 00'39	0.63463 AU
morning rise	16049 Oct 18 21.30 16049 Oct 12 13:03	28 ≗ 02 00 25° ₽ 03'55	0.01227 AU	desc. node	16050 Sep 21 14.15	8° £ 31'08	0.03403 AU
direct	16049 Oct 12 13:03 16049 Oct 19 05:11	23° £ 48'35		morning rise	16050 Sep 25 05:48	ა = 31 08 7° Ω 37'43	
direct	16049 Nov 01 16:12	0°M		direct	16050 Sep 23 03.48	7 ⊆ 3743 5° Ω 06'55	
morning max el	16049 Nov 02 10:03	0°M43'20	27°58'44	morning max el	16050 Oct 01 21:15	13° ≏ 05'55	27°46'01
morning max ci	16049 Nov 23 16:54	0° ⊼	27 38 44	morning max ci	16050 Oct 19 18:35	0° M	27 4001
asc. node	16049 Dec 01 18:51	0 ✗ 14° ♐ 50'01			16050 Nov 16 05:32	0° ∕ 7	
morning set	16049 Dec 05 17:47	22° х 49'39		asc. node	16050 Nov 18 15:47	4° ∡ 744'33	
morning set	16049 Dec 09 02:51	0°る		morning set	16050 Nov 19 12:38	6° ₹ ⁷ 28'48	
max. Earth dist.	16049 Dec 11 10:26	5° そ 03'52	1.31289 AU	max. Earth dist.	16050 Nov 24 10:32	16° х 40'04	1.32147 AU
max. Lartii dist.	1004) Dec 11 10.20	3 003 32	1.51207710	max. Earth dist.	10030 1107 24 10.32	10 % 40 04	1.52147 110
superior conj	16049 Dec 12 23:56	8° ප 31'29	1°27'06	superior conj	16050 Nov 27 07:24	22° ∡ 751′28	1°12'31
minimum elong	16049 Dec 12 22:08	8° る 21'29	1°27'43	minimum elong	16050 Nov 27 05:06	22° ∡ ³38'54	1°12'57
evening rise	16049 Dec 19 16:39	23° る 19'54			16050 Nov 30 13:39	0°ರ	
•	16049 Dec 22 20:08	0° ≈		evening rise	16050 Dec 04 03:25	7° ප 47'31	
desc. node	16050 Jan 03 04:44	20° ≈ 47'15			16050 Dec 15 12:48	0° ≈	
	16050 Jan 09 17:23	0°)		desc. node	16050 Dec 21 01:39	8° ≈ 26'50	
evening max el	16050 Jan 15 07:08	6°) €08'53	25°13'31	evening max el	16050 Dec 27 17:21	16° ≈ 13′03	23°33'29
retrograde	16050 Jan 29 03:31	13°) €05'55		retrograde	16051 Jan 10 02:36	22° ≈ 50'39	
evening set	16050 Feb 03 19:22	11°) 53'37		evening set	16051 Jan 14 15:50	22°≈05'51	
min. Earth dist.	16050 Feb 08 19:37	9°) 10′31	0.56519 AU	min. Earth dist.	16051 Jan 21 04:26	18° ≈ 59'23	0.55060 AU
inferior conj	16050 Feb 11 11:32	7°) €25'56	-4°44'15	inferior conj	16051 Jan 22 18:12	18° ≈ 04'13	-5°47'05
minimum elong	16050 Feb 11 20:57	7°) 10′31	4°41'22	minimum elong	16051 Jan 23 00:08	17° ≈ 55'33	5°45'48
morning rise	16050 Feb 20 01:13	3°) 15′54		morning rise	16051 Jan 31 09:54	14°≈10′46	
direct	16050 Feb 22 03:04	3°) €03'26		direct	16051 Feb 03 00:47	13° ≈ 53'58	
asc. node	16050 Feb 27 16:54	4°) 39'36		morning max el	16051 Feb 14 00:15	19° ≈ 12'41	20°26'42
morning max el	16050 Mar 03 12:35	7°) 38′30	19°13'33	asc. node	16051 Feb 14 14:15	19° ≈ 47'26	
	16050 Mar 17 20:57	$0^{\circ}\mathbf{\Upsilon}$			16051 Feb 22 06:52	0° ∀	
morning set	16050 Mar 20 06:42	4° Υ 44'18		morning set	16051 Mar 04 13:29	19°) €21'33	
					16051 Mar 09 17:06	0 ° Υ	
superior conj	16050 Mar 28 13:57	21° Y 08'01	0°30'40		16051 Mar 09 17:06	0° Υ ′	
superior conj minimum elong	16050 Mar 28 13:57 16050 Mar 28 15:45	21° Y 08'01 21° Y 16'40	0°30'40 0°30'10	superior conj	16051 Mar 09 17:06 16051 Mar 12 03:30	0°Υ 4°Υ58'05	0°56'46
				superior conj minimum elong			0°56'46 0°56'23
minimum elong	16050 Mar 28 15:45	21° Υ 16'40			16051 Mar 12 03:30	4° Υ ′58'05	
minimum elong	16050 Mar 28 15:45 16050 Apr 01 06:01	21°Y16'40 28°Y05'41 0°B		minimum elong	16051 Mar 12 03:30 16051 Mar 12 06:01	4° Υ 58'05 5° Υ 10'49	0°56'23
minimum elong desc. node	16050 Mar 28 15:45 16050 Apr 01 06:01 16050 Apr 02 06:41	21°\bar{16'40} 28°\bar{7}05'41 0°\bar{8}	0°30′10	minimum elong max. Earth dist.	16051 Mar 12 03:30 16051 Mar 12 06:01 16051 Mar 17 15:32	4°Υ58'05 5°Υ10'49 15°Υ48'48	0°56'23
minimum elong desc. node max. Earth dist.	16050 Mar 28 15:45 16050 Apr 01 06:01 16050 Apr 02 06:41 16050 Apr 04 08:12	21°Υ16'40 28°Υ05'41 0°႘ 3°႘45'44	0°30′10	minimum elong max. Earth dist. desc. node	16051 Mar 12 03:30 16051 Mar 12 06:01 16051 Mar 17 15:32 16051 Mar 19 02:41	4°Υ58'05 5°Υ10'49 15°Υ48'48 18°Υ35'25	0°56'23
minimum elong desc. node max. Earth dist.	16050 Mar 28 15:45 16050 Apr 01 06:01 16050 Apr 02 06:41 16050 Apr 04 08:12 16050 Apr 08 01:57	21°Y16'40 28°Y05'41 0°8 3°8'45'44 10°8'22'21	0°30′10	minimum elong max. Earth dist. desc. node	16051 Mar 12 03:30 16051 Mar 12 06:01 16051 Mar 17 15:32 16051 Mar 19 02:41 16051 Mar 21 11:06	4°Υ58'05 5°Υ10'49 15°Υ48'48 18°Υ35'25 22°Υ56'53	0°56'23
minimum elong desc. node max. Earth dist.	16050 Mar 28 15:45 16050 Apr 01 06:01 16050 Apr 02 06:41 16050 Apr 04 08:12 16050 Apr 08 01:57 16050 Apr 20 03:26	21°Y16'40 28°Y05'41 0°8 3°845'44 10°822'21 0°II	0°30'10 1.38512 AU	minimum elong max. Earth dist. desc. node	16051 Mar 12 03:30 16051 Mar 12 06:01 16051 Mar 17 15:32 16051 Mar 19 02:41 16051 Mar 21 11:06 16051 Mar 25 10:03	4°Υ58'05 5°Υ10'49 15°Υ48'48 18°Υ35'25 22°Υ56'53 0°႘	0°56'23
minimum elong desc. node max. Earth dist. evening rise	16050 Mar 28 15:45 16050 Apr 01 06:01 16050 Apr 02 06:41 16050 Apr 04 08:12 16050 Apr 08 01:57 16050 Apr 20 03:26 16050 May 12 23:24	21°Y16'40 28°Y05'41 0°8 3°845'44 10°822'21 0°II 0°S	0°30'10 1.38512 AU	minimum elong max. Earth dist. desc. node evening rise	16051 Mar 12 03:30 16051 Mar 12 06:01 16051 Mar 17 15:32 16051 Mar 19 02:41 16051 Mar 21 11:06 16051 Mar 25 10:03 16051 Apr 13 20:59	4°Υ58'05 5°Υ10'49 15°Υ48'48 18°Υ35'25 22°Υ56'53 0°႘ 0°Π	0°56′23 1.36280 AU
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minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy	16050 Mar 28 15:45 16050 Apr 01 06:01 16050 Apr 02 06:41 16050 Apr 04 08:12 16050 Apr 08 01:57 16050 Apr 20 03:26 16050 May 12 23:24 16050 May 13 08:22 16050 May 25 01:41 16050 May 26 14:23 16050 May 30 17:45 16050 Jun 04 04:54 16050 Jun 04 00:12 16050 Jun 05 06:37 16050 Jun 05 04:37 16050 Jun 10 15:43 16050 Jun 10 15:43 16050 Jun 21 18:19 16050 Jun 28 06:17 16050 Jun 28 06:17 16050 Jul 04 15:15 16050 Jul 16 18:52 16050 Jul 17 16:16	21°Y16'40 28°Y05'41 0°8 3°845'44 10°822'21 0°11 0°9 0°922'22 7°913'01 7°903'09 4°949'05 29°1144'30 30°R11 28°118'51 28°1125'31 22°1120'49 20°1158'29 25°1101'40 0°9 2°944'10 11°942'56 0°0 1°021'59	0°30'10 1.38512 AU 24°43'18 0.68484 AU 2°32'06 2°30'54 19°38'30 -0.6m 1.45057 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set	16051 Mar 12 03:30 16051 Mar 12 06:01 16051 Mar 17 15:32 16051 Mar 19 02:41 16051 Mar 21 11:06 16051 Mar 25 10:03 16051 Apr 13 20:59 16051 Apr 25 22:03 16051 May 08 13:17 16051 May 13 11:33 16051 May 14 16:03 16051 May 18 20:24 16051 May 20 11:06 16051 May 20 08:55 16051 May 20 08:55 16051 May 20 10:36 16051 Jun 05 02:25 16051 Jun 15 03:21 16051 Jun 19 04:00 16051 Jun 27 04:48 16051 Jul 09 13:57 16051 Jul 12 01:03	4°Y58'05 5°Y10'49 15°Y48'48 18°Y35'25 22°Y56'53 0°B 0°II 14°II15'42 21°II31'18 19°II00'31 14°II32'06 12°II30'21 12°II37'13 6°II42'51 5°II39'12 9°II13'36 22°II12'32 28°II17'10 0°S 10°S43'29 0°Ω 3°Ω50'23	0°56'23 1.36280 AU 25°56'09 0.67462 AU 1°58'30 1°57'10 18°45'18 -0.8m
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arraning got	16051 Aug 27 21:02	2° ≏ 48'24			16052 Iul 20 20:15	0° m)	
evening set	16051 Aug 27 21:02			1-	16052 Jul 20 20:15		
	16051 Aug 31 04:36	30°R, Mp	201 (157	asc. node	16052 Jul 26 08:06	7° Mp 47'47	10010101
inferior conj	16051 Sep 02 14:37	27° m 12'29	2°16'57	evening max el	16052 Jul 31 15:55	14° Mp 06'42	19°12'01
minimum elong	16051 Sep 02 16:54	27° m 05'33	2°16'15	retrograde	16052 Aug 07 14:23	17° m 56'28	
min. Earth dist.	16051 Sep 04 15:52	24° Mp 43'53	0.65449 AU	evening set	16052 Aug 11 03:37	16° Mp 43'22	
morning rise	16051 Sep 08 11:33	20° Mp 48'29		inferior conj	16052 Aug 16 14:10	10° m 53'46	2°47'08
desc. node	16051 Sep 11 01:00	19° m 06'50		minimum elong	16052 Aug 16 15:56	10° m)48'01	2°46'31
direct	16051 Sep 14 21:24	18° m)11'18		min. Earth dist.	16052 Aug 18 01:19	8° m 59'46	0.67058 AU
morning max el	16051 Sep 28 06:01	26° m 02'01	27°00'47	morning rise	16052 Aug 22 03:36	4° m 27'06	
S	16051 Oct 01 22:07	0∘ <u>⊽</u>		desc. node	16052 Aug 27 22:21	1° m) 52'17	
	16051 Oct 22 22:44	0° ™		direct	16052 Aug 28 04:23	1° m ₂ 52'17	
morning got		19°M38'09		morning max el	16052 Aug 28 04:23 16052 Sep 09 17:28	9° m) 20'30	25°51'30
morning set	16051 Nov 02 21:13			morning max er			23 31 30
asc. node	16051 Nov 05 12:39	24°M48'57			16052 Sep 26 01:10	0∘ 亚	
max. Earth dist.	16051 Nov 07 01:54	27°M56'13	1.33572 AU		16052 Oct 14 11:29	0° M	
	16051 Nov 08 02:11	0° ∡ ¹		morning set	16052 Oct 15 16:08	2°M10'26	
				max. Earth dist.	16052 Oct 19 07:59	9° ጤ 01'51	1.35500 AU
superior conj	16051 Nov 11 09:40	6° ₰ 754'00	0°51'47	asc. node	16052 Oct 22 09:26	14° M 58'59	
minimum elong	16051 Nov 11 07:25	6° ∡ ¹42′06	0°52'03				
evening rise	16051 Nov 18 13:43	22° ∡ 12'33		superior conj	16052 Oct 25 04:03	20°M32'35	0°25'03
	16051 Nov 22 07:41	0°ප		minimum elong	16052 Oct 25 02:39	20°M25'27	0°25'19
desc. node	16051 Nev 22 07:11 16051 Dec 07 22:39	24° る 53'11		minimum ciong	16052 Oct 29 18:21	0° √	0 23 17
			21951110				
evening max el	16051 Dec 09 05:08	26° る 11'25	21°51′19	evening rise	16052 Nov 01 21:33	6° ∡ 730'16	
	16051 Dec 13 23:55	0° ≈			16052 Nov 14 17:20	0°ಕ	
retrograde	16051 Dec 21 14:16	2° ≈ 18'38		evening max el	16052 Nov 20 03:42	6° ප් 40'18	20°22'46
evening set	16051 Dec 24 20:44	1° ≈ 54'42		desc. node	16052 Nov 23 19:44	9° る 43'07	
	16051 Dec 29 20:53	30°Ŗ⋜		retrograde	16052 Dec 01 01:08	12° る 05'33	
inferior conj	16052 Jan 02 10:59	28° る 04'14	-5°59'10	evening set	16052 Dec 03 07:55	11° る 52'22	
minimum elong	16052 Jan 02 07:54	28° る 08'32	5°58'17	inferior conj	16052 Dec 12 03:24	7° る 57'19	-5°10'15
min. Earth dist.	16052 Jan 02 09:49	28° る 05'52	0.54406 AU	minimum elong	16052 Dec 11 17:50	8° ට 11'22	5°07'19
morning rise	16052 Jan 10 19:49	24° ප 16'38		min. Earth dist.	16052 Dec 13 15:28	7° る 04'19	0.54686 AU
direct	16052 Jan 14 10:03	23° る 48'17		morning rise	16052 Dec 20 03:18	3° る 56'51	0.54000 AC
			22001152	•			
morning max el	16052 Jan 26 20:48	29° ⋜ 49'53	22°01'53	direct	16052 Dec 24 19:05	3°る10'07	
	16052 Jan 27 01:01	0° ≈		morning max el	16053 Jan 07 07:03	9° ප් 48'15	23°50'51
asc. node	16052 Feb 01 11:35	6° ≈ 18'34		asc. node	16053 Jan 18 08:50	23° る 54'41	
	16052 Feb 15 00:58	0° ∀			16053 Jan 21 23:54	0° ≈	
morning set	16052 Feb 16 23:53	4°) €04'56		morning set	16053 Jan 31 11:48	18° ≈ 48'30	
					16053 Feb 05 15:14	0° ∀	
superior conj	16052 Feb 24 02:21	19° ¥ 11'24	1°16'26				
minimum elong	16052 Feb 24 04:43	19° ¥ 23'53		superior conj	16053 Feb 07 07:37	3°) 40′05	1°29'44
max. Earth dist.	16052 Feb 28 04:30		1.34308 AU	minimum elong	16053 Feb 07 09:17	3° ¥ 49'11	1°29'59
max. Earth dist.		27 γ (3919	1.54506 AU	max. Earth dist.		9° H 31'40	1.32736 AU
	16052 Feb 29 08:26				16053 Feb 10 00:56		1.32/30 AU
evening rise	16052 Mar 03 11:27	6° Y 07'38		evening rise	16053 Feb 14 23:38	19°) 46′14	
desc. node	16052 Mar 04 23:19	8° Ƴ 58'07		desc. node	16053 Feb 19 19:59	29° ∺ 09'32	
	16052 Mar 17 03:19	0°8			16053 Feb 20 06:50	0° Y	
evening max el	16052 Apr 07 11:56	27° 8 58'54	26°53'47		16053 Mar 11 04:47	9° 8	
	16052 Apr 09 16:29	$\Pi^{\circ}0$		evening max el	16053 Mar 21 00:53	11° 8 21'05	27°28'48
retrograde	16052 Apr 20 19:07	5° Ⅱ 27'36		retrograde	16053 Apr 03 18:26	18° 8 53'05	
evening set	16052 Apr 27 07:01	2° Ⅱ 55'23		evening set	16053 Apr 10 12:28	16° 8 26'03	
asc. node	16052 Apr 29 08:47	1° Ⅱ 03'05		min. Earth dist.	16053 Apr 14 07:40	13° 8 02'53	0.64166 AU
	16052 Apr 30 08:52	30°R ∀		asc. node	16053 Apr 16 06:02	11° 8 01'05	
min. Earth dist.	16052 Apr 30 08:52	29° 8 01'19	0.66005 AU	inferior conj	16053 Apr 16 00:02	10° 8 15'00	0°13'35
inferior conj	16052 May 03 09:34	26° 8 31'13	1°12'42	minimum elong	16053 Apr 16 22:59	10°816'02	0°13'01
minimum elong	16052 May 03 07:51	26° 8 36'15	1°11'31	transit middle	16053 Apr 16 22:59	10° 8 16'02	0°13'01
morning rise	16052 May 09 10:02	20° 8 56'03		transit begin	16053 Apr 16 21:10	10° 8 20'49	
direct	16052 May 12 08:17	20° 8 09'07		transit end	16053 Apr 17 00:47	10° 8 11'15	
morning max el	16052 May 18 16:14	23° 8 27'32	18°08'45	morning rise	16053 Apr 23 11:44	4° 8 54'26	
	16052 May 24 01:57	$\Pi^{\circ}0$		direct	16053 Apr 26 01:03	4° 8 21'23	
desc. node	16052 Jun 01 00:19	12° Ⅱ 04'47		morning max el	16053 May 02 09:22	7° 8 36'18	17°49'22
morning set	16052 Jun 06 17:12	21° Ⅱ 14'37		Ü	16053 May 17 13:19	0°II	
	16052 Jun 12 04:10	0°99		desc. node	16053 May 18 21:12	2° Ⅱ 14'17	
	10052 Juli 12 04.10	v -			•	3° Ⅱ 03'00	
	16052 1 21 17 51	1.50000513.4	2002147	morning set	16053 May 19 08:46	э дозоо	
superior conj	16052 Jun 21 17:51	15°907'34			1.0070 X 01 17 51	0.50 H 0.00-	102626
minimum elong	16052 Jun 21 10:50		2°04'07	superior conj	16053 Jun 01 15:53	25° Ⅱ 00'56	
max. Earth dist.	16052 Jun 23 21:46	18° © 30'29	1.45946 AU	minimum elong	16053 Jun 01 07:26	24° Ⅱ 26'56	1°36'18
	16052 Jul 01 07:08	0 $^{\circ}$ Ω			16053 Jun 04 18:43	0 \circ	
evening rise	16052 Jul 01 07:08 16052 Jul 07 20:56	0° Ω 10° Ω 10'53		max. Earth dist.	16053 Jun 04 18:43 16053 Jun 06 17:29	0°ജ 3° ഇ 05'07	1.45265 AU
evening rise greatest brilliancy			-0.7m	max. Earth dist.			1.45265 AU

	16052 I.m. 24 05:25	000			16054 M 12 06-26	50T22116	0950150
	16053 Jun 24 05:35	0°N		minimum elong	16054 May 13 06:36	5° Ⅱ 33'16	
asc. node	16053 Jul 13 04:53	26°Ω17'02		max. Earth dist.	16054 May 20 09:47	17° Ⅱ 18'31	1.43917 AU
evening max el	16053 Jul 14 19:58	28° Ω 00'02	20°08'17	evening rise	16054 May 27 22:15	29° ∏ 11'24	
	16053 Jul 17 01:20	0° m ∕			16054 May 28 10:49	0 \circ \odot	
retrograde	16053 Jul 22 13:17	2°m/22'53			16054 Jun 17 22:22	0 $^{\circ}$ Ω	
evening set	16053 Jul 26 12:47	0° m 52′01		evening max el	16054 Jun 27 18:00	11° Ω 53'54	21°17'36
	16053 Jul 27 13:05	30° R Ω		asc. node	16054 Jun 30 01:45	14° Ω 01′26	
inferior conj	16053 Jul 31 19:25	24° Ω 50'13	3°03'47	retrograde	16054 Jul 06 12:11	16° Ω 58'24	
minimum elong	16053 Jul 31 20:20	24° Ω 47'06	3°03'12	evening set	16054 Jul 10 22:36	15° Ω 10′10	
min. Earth dist.	16053 Aug 01 16:43	23° Ω 37'46	0.68229 AU	inferior conj	16054 Jul 16 04:04	8° Ω 57'41	3°08'37
morning rise	16053 Aug 06 03:31	18°Ω25'32	0.00227110	minimum elong	16054 Jul 16 04:01	8°Ω57'49	3°07'59
direct	-	15° Ω 59'39		min. Earth dist.	16054 Jul 16 11:57	8° Ω 30'10	
	16053 Aug 11 17:14						0.08931 AU
desc. node	16053 Aug 14 19:42	16° Ω 37'41		morning rise	16054 Jul 21 09:12	2° Ω 38'11	
morning max el	16053 Aug 23 04:29	22° Ω 51'31	24°27'29	direct	16054 Jul 26 10:57	0° Ω 26'43	
	16053 Aug 29 11:39	0° ™		desc. node	16054 Aug 01 17:00	3° Ω 00'14	
	16053 Sep 19 08:48	0∘ ⊽		morning max el	16054 Aug 05 16:03	6° Ω 30'25	22°58'14
morning set	16053 Sep 27 17:14	13° ≏ 55'47			16054 Aug 23 21:40	0° m y	
max. Earth dist.	16053 Oct 01 07:33	20° ≏ 17'30	1.37784 AU	morning set	16054 Sep 08 20:30	24° Mp 45'02	
	16053 Oct 06 13:30	0° M ₊			16054 Sep 11 23:57	0∘ ত	
				max. Earth dist.	16054 Sep 13 06:33	2° ₽ 10'03	1.40195 AU
superior conj	16053 Oct 08 11:12	3° ™ 38'37	-0°07'06		1		
minimum elong	16053 Oct 08 11:39	3°M40'48	0°06'40	superior conj	16054 Sep 21 03:11	16° ≏ 03'24	-0°43'01
behind sun begin	16053 Oct 08 05:26	3°M10'48	0 00 40	minimum elong	16054 Sep 21 06:30	16° ⊆ 18'33	0°42'19
•				Č	•		0 42 19
behind sun end	16053 Oct 08 17:53	4°M10'52		asc. node	16054 Sep 26 02:50	25° Ω 19'41	
asc. node	16053 Oct 09 06:08	5° M 10′18			16054 Sep 28 13:52	0° M	
evening rise	16053 Oct 17 00:27	20°M33'53		evening rise	16054 Sep 30 19:30	4° ™ 16'11	
	16053 Oct 21 20:14	0° ∡ 7			16054 Oct 16 16:33	0° ∡ ¹	
evening max el	16053 Nov 02 16:50	17° ∡ 758′15	19°15'29	evening max el	16054 Oct 16 18:34	0° ∡ °05′02	18°30'32
desc. node	16053 Nov 10 16:53	22° ∡ ³32'37		retrograde	16054 Oct 24 16:24	4° ∡ ¹05'41	
retrograde	16053 Nov 11 23:32	22° ∡ ³37'44		evening set	16054 Oct 26 15:31	3° ∡ 751'37	
evening set	16053 Nov 13 21:03	22° ∡ ¹26'54		desc. node	16054 Oct 28 14:04	3° ∡ 12'02	
inferior conj	16053 Nov 22 09:22	18° √ 16'41	-3°38'29		16054 Nov 02 15:55	30°RM	
minimum elong	16053 Nov 22 00:34	18° ₹ 31'21	3°34'41	inferior conj	16054 Nov 03 12:16	29°M20'48	-1°54'26
min. Earth dist.	16053 Nov 25 01:00	16° ₹ 30'55	0.55854 AU	minimum elong	16054 Nov 03 07:44	29°M29'36	1°52'00
morning rise	16053 Nov 30 01:41	13° x 45'33	0.55654 AC	min. Earth dist.	16054 Nov 06 17:04	26°M52'26	0.57698 AU
direct	16053 Dec 05 15:07	12° × ⁷ 34'41			16054 Nov 10 20:32	24°M12'52	0.37098 AU
			25026144	morning rise			
morning max el	16053 Dec 19 16:22	19° ₹ 42'24	25°36'44	direct	16054 Nov 17 01:47	22°M34'58	
	16053 Dec 28 09:47	5°0			16054 Dec 01 05:35	0° ∡	
asc. node	16054 Jan 05 06:01	12° る 19'36		morning max el	16054 Dec 01 07:50	0° ∡ ¹05'25	27°00'23
	16054 Jan 14 08:39	0° ≈			16054 Dec 22 09:36	0°ප	
morning set	16054 Jan 15 23:22	3° ≈ 26'36		asc. node	16054 Dec 23 03:07	1° る 20'57	
				morning set	16054 Dec 31 08:50	17° る 54'34	
superior conj	16054 Jan 22 16:52	18° ≈ 16'53	1°36'48		16055 Jan 05 20:38	0° ≈	
minimum elong	16054 Jan 22 17:34	18° ≈ 20'47	1°37'20				
max. Earth dist.	16054 Jan 24 03:54	21° ≈ 30'38	1.31643 AU	superior conj	16055 Jan 07 04:04	2°≈55'58	1°37'47
	16054 Jan 28 01:51	0° ∀		minimum elong	16055 Jan 07 03:43	2°≈53'57	
evening rise	16054 Jan 29 20:43	3° ¥ 45'18		max. Earth dist.	16055 Jan 07 10:50	3°≈33'50	1.31076 AU
desc. node	16054 Feb 06 16:41	19°) 04'03		evening rise	16055 Jan 14 00:15	17°≈58'57	1.51070710
dese. Houc	16054 Feb 13 00:47	19 γ (04 03		Cvoning 1150	16055 Jan 19 21:59	0° ∺	
avanie 1		0° γ 24° Υ 10'13	27024127	dogo			
evening max el	16054 Mar 03 11:02		2/°34'36	desc. node	16055 Jan 24 13:25	8°) €34'39	
_	16054 Mar 11 06:25	0°8			16055 Feb 07 21:59	0°Υ	
retrograde	16054 Mar 17 10:17	1° 8 37'57		evening max el	16055 Feb 13 16:03	6° Y 14'42	27°06'14
	16054 Mar 23 05:56	30° ŖƳ		retrograde	16055 Feb 27 17:02	13° Y 32'14	
evening set	16054 Mar 24 05:51	29° Y 23'45		evening set	16055 Mar 06 08:02	11° Ƴ 38'25	
min. Earth dist.	16054 Mar 28 00:05	26° Y 25'31	0.62037 AU	min. Earth dist.	16055 Mar 10 06:23	8° Y 56'18	0.59781 AU
inferior conj	16054 Mar 31 01:19	23° Y 33'57	-0°59'22	inferior conj	16055 Mar 13 11:43	6° Ƴ 17'53	-2°24'37
minimum elong	16054 Mar 31 03:22	23° Y '29'07	0°58'46	minimum elong	16055 Mar 13 17:11	6° Y 06'38	2°22'30
asc. node	16054 Apr 03 03:19	20°Υ′50'36		morning rise	16055 Mar 21 05:53	1° Y 33'57	
morning rise	16054 Apr 07 04:00	18° Υ 30'26		asc. node	16055 Mar 21 00:39	1° Y 37'27	
direct	16054 Apr 09 09:41	18° Υ 07'56		direct	16055 Mar 23 06:14	1° Υ 18'18	
morning max el	16054 Apr 16 02:50	21° Υ 31'10	17°47'40	morning max el	16055 Mar 30 17:06	5° Υ 01'08	18°04'39
morning max ei	=		1/4/40	-		29° Υ 35'45	10 04 37
	16054 Apr 22 15:07	0°8		morning set	16055 Apr 15 07:02		
morning set	16054 May 01 23:23	15° 8 56'09			16055 Apr 15 12:16	0°8	
desc. node	16054 May 05 18:03	22° 8 36'00		desc. node	16055 Apr 22 14:49	13° 8 04'51	
	16054 May 10 00:15	Π °0					
				superior conj	16055 Apr 25 07:32	17° 8 54'43	
superior conj	16054 May 13 12:09	5° Ⅱ 56'38	-1°00'08	minimum elong	16055 Apr 25 05:41	17° 8 46'29	0°22'20

	16055 May 02, 07:42	0°Щ			16056 Apr 06 12:56	0°B	
max. Earth dist.	16055 May 02 07:42 16055 May 02 21:39	0° Д 58'20	1.42045 AU	desc. node	16056 Apr 06 12:56 16056 Apr 08 11:33	3° 8 37'11	
evening rise	16055 May 08 03:30	9° П 33'01	1.42043 AU	max. Earth dist.	16056 Apr 14 05:40	13° 8 58'01	1.39845 AU
evening rise	16055 May 21 12:15	0°95		evening rise	16056 Apr 18 05:50	20° 8 50'14	1.33643 AU
evening max el	16055 Jun 10 11:11	25°\$48'03	22°35'53	evening rise	16056 Apr 23 20:07	20 О 30 14	
evening max er	16055 Jun 15 13:11	0°Ω	22 33 33		16056 May 14 14:32	0° ©	
asc. node	16055 Jun 16 22:41	0° Ω 45'44		evening max el	16056 May 23 01:32	9° 5 43'13	23°57'26
retrograde	16055 Jun 20 09:23	1°Ω36'54		asc. node	16056 Jun 02 19:41	16°9512'35	25 0 7 20
	16055 Jun 24 17:46	30°Rூ		retrograde	16056 Jun 03 03:39	16°9513'04	
evening set	16055 Jun 25 07:17	29° © 32'41		evening set	16056 Jun 08 13:16	13° 9 55'13	
inferior conj	16055 Jun 30 14:01	23° © 11'17	3°02'41	min. Earth dist.	16056 Jun 13 05:09	8° 5 29'29	0.68874 AU
minimum elong	16055 Jun 30 13:03	23° © 14'37	3°01'52	inferior conj	16056 Jun 13 23:23	7° © 27'25	2°46'19
min. Earth dist.	16055 Jun 30 08:48	23° © 29'25	0.69148 AU	minimum elong	16056 Jun 13 21:41	7° © 33'13	2°45'15
morning rise	16055 Jul 05 18:40	16° © 59'07		morning rise	16056 Jun 19 06:07	1° 5 24'01	
direct	16055 Jul 10 08:15	15° © 05'39			16056 Jun 21 23:49	30°Ŗ Ⅱ	
morning max el	16055 Jul 19 06:48	20° © 17'13	21°32'15	direct	16056 Jun 23 07:45	29° Ⅱ 50′14	
desc. node	16055 Jul 19 14:16	20° © 36'02			16056 Jun 24 16:35	0 \circ \odot	
	16055 Jul 27 11:29	$0^{\circ}\Omega$		morning max el	16056 Jul 01 03:40	4° © 14'59	20°16'07
	16055 Aug 17 02:02	0° m)		desc. node	16056 Jul 05 11:30	9° 5 06'24	
morning set	16055 Aug 19 23:49	4°m/33'11			16056 Jul 20 09:07	0 $^{\circ}$ Ω	
max. Earth dist.	16055 Aug 26 10:48	14° m 56'33	1.42447 AU	morning set	16056 Jul 29 08:15	13° Ω 35'15	
				max. Earth dist.	16056 Aug 07 22:13	28° Ω 35'11	1.44280 AU
superior conj	16055 Sep 02 23:34	27° m 36'48			16056 Aug 08 19:26	0° ™	
minimum elong	16055 Sep 03 06:03	28° m 04'47	1°18'48				
	16055 Sep 04 08:37	0∘ ⊽		superior conj	16056 Aug 13 20:53	8°M)11'46	
asc. node	16055 Sep 12 23:31	15° ≏ 23'04		minimum elong	16056 Aug 14 04:42	8° Mp 43'50	1°51'04
evening rise	16055 Sep 14 02:48	17° ≏ 27'03		evening rise	16056 Aug 26 17:34	29° m 54'37	
	16055 Sep 21 03:27	0° ™			16056 Aug 26 18:49	0∘ ⊽	
evening max el	16055 Sep 30 04:37	12°M51'08	18°06'34	asc. node	16056 Aug 29 20:11	5° ≏ 16'29	
retrograde	16055 Oct 07 03:52	16°M25'35		evening max el	16056 Sep 12 18:47	26° Ω 05'57	18°01'55
evening set	16055 Oct 09 09:19	16°M04'03		retrograde	16056 Sep 19 06:02	29° Ω 27'54	
desc. node	16055 Oct 15 11:20	12°M08'06	0020100	evening set	16056 Sep 21 19:28	28° ♀ 55'18	0056100
inferior conj	16055 Oct 16 12:31	11°M11'58		inferior conj	16056 Sep 28 06:58	23° Ω 44'05	0°56'00
minimum elong min. Earth dist.	16055 Oct 16 11:50	11°M 13'29	0°19'17	minimum elong	16056 Sep 28 08:31	23° Ω 40'05	0°55'41
min. Earth dist.	16055 Oct 19 17:38 16055 Oct 23 11:07	8°M.18'54 5°M.31'05	0.59907 AU	min. Earth dist. desc. node	16056 Oct 01 04:07 16056 Oct 01 08:42	20° £ 46'38 20° £ 35'23	0.62197 AU
direct	16055 Oct 30 01:17	3°M28'03		morning rise	16056 Oct 04 19:03	20 ⊆ 33 23 17° ⊆ 38'53	
morning max el	16055 Nov 13 07:29	11°M 15'07	27°48'53	direct	16056 Oct 11 11:30	17 ⊆ 36 33	
morning max ci	16055 Nov 28 00:01	0° ∡ ⊓	27 46 33	morning max el	16056 Oct 25 13:54	23° £ 13′23	27°57'56
asc. node	16055 Dec 10 00:11	20° × ⁷ 49'08		morning max ci	16056 Oct 31 15:25	0°M	27 37 30
use. Houe	16055 Dec 14 13:54	0°る			16056 Nov 20 06:46	0° ⊼ 7	
morning set	16055 Dec 15 14:21	2° ろ 08'06		asc. node	16056 Nov 25 21:10	10° ∡ ³35'47	
max. Earth dist.	16055 Dec 21 18:20	15° පි 34'51	1.31052 AU	morning set	16056 Nov 28 13:47	16° х °01'07	
				max. Earth dist.	16056 Dec 03 22:22	27° ∡ ¹22'52	1.31585 AU
superior conj	16055 Dec 22 15:21	17° ට 32'11	1°32'46		16056 Dec 05 03:06	ರ°ರ	
minimum elong	16055 Dec 22 14:01	17° る 24'42	1°33'25				
Č	16055 Dec 28 05:54	0° ≈		superior conj	16056 Dec 06 00:44	1° る 59'10	1°21'41
evening rise	16055 Dec 29 08:06	2° ≈ 22'17		minimum elong	16056 Dec 05 22:40	1° る 47'46	1°22'12
desc. node	16056 Jan 11 10:12	27° ≈ 32'39		evening rise	16056 Dec 12 18:19	16° る 49'22	
	16056 Jan 12 22:32	0° ∀			16056 Dec 19 03:34	0° ≈	
evening max el	16056 Jan 26 13:31	17° ¥ 27′20	26°03'12	desc. node	16056 Dec 28 07:04	15° ≈ 45′13	
retrograde	16056 Feb 09 12:30	24°) €31'37		evening max el	16057 Jan 07 02:34	27° ≈ 49'46	24°32'25
evening set	16056 Feb 15 15:29	23° 米 03′26			16057 Jan 09 13:47	0° ∀	
min. Earth dist.	16056 Feb 20 02:39		0.57622 AU	retrograde	16057 Jan 20 18:58	4°) 39′10	
inferior conj	16056 Feb 23 03:01	18° ¥ 17'12		evening set	16057 Jan 26 00:52	3° ¥ 38'40	
minimum elong	16056 Feb 23 11:44	18° 米 01'42	3°52'11	min. Earth dist.	16057 Jan 31 14:25	0°) 48′19	0.55821 AU
morning rise	16056 Mar 02 11:06	13°) € 54'40			16057 Feb 01 21:47	30° R ≈	
direct	16056 Mar 04 10:29	13°) (42′06		inferior conj	16057 Feb 02 21:02	29° ≈ 23'50	
asc. node	16056 Mar 06 22:01	14°) €02'55	10041170	minimum elong	16057 Feb 03 05:48	29°≈10'14	5°13'08
morning max el	16056 Mar 13 00:15	17°) € 55'09	18°41'59	morning rise	16057 Feb 11 12:53	25°≈21'56	
•	16056 Mar 21 17:00	0°Υ 120W46142		direct	16057 Feb 13 19:03	25°≈08'19	
morning set	16056 Mar 29 02:37	13° Ƴ 46'43		asc. node	16057 Feb 21 19:23	28° ≈ 14'09	
aupariar car-	16056 4 06 22:45	00 7 45150	0012152	morning me1	16057 Feb 23 19:43	0° ∺ 0° ∺ 00'49	100/11//
superior conj	16056 Apr 06 22:45	0° 8 45'59 0° 8 49'57	0°12'52 0°12'23	morning max el	16057 Feb 23 20:04 16057 Mar 13 06:10	0° 1 100′49 28° 1 16′42	19°41'46
minimum elong	16056 Apr 06 23:35 16056 Apr 06 19:12	0° 6 49'57 0° 6 29'24	0 14 43	morning set	16057 Mar 13 06:10 16057 Mar 14 02:37	28° Υ 16'42 0° Υ	
behind sun begin behind sun end	16056 Apr 06 19:12 16056 Apr 07 03:59	1° 8 10'29			1003 / Wiai 14 U2.3/	v i	
ocimia suil cila	10030 Apr 0/ 03.39	1 01029					

	1605534 01 05 10	1.40001.5140	00.4010.0		16050 7 1 25 14 42	100)/ 5710 /	
superior conj	16057 Mar 21 05:18	14° Υ 17'42		morning set	16058 Feb 25 14:43	12°) 57′04	
minimum elong	16057 Mar 21 07:31	14° Y 28'41	0°42'01		1605034 04 00 10	2001/10110	1005152
desc. node	16057 Mar 26 08:14	24° Y ′08'43	1.05540.477	superior conj	16058 Mar 04 23:10	28°) 18'48	1°05'53
max. Earth dist.	16057 Mar 27 11:58	26° Y 17'39	1.37548 AU	minimum elong	16058 Mar 05 01:43	28°) € 31'53	1°05'37
	16057 Mar 29 12:38	0°8		75 at 15 a	16058 Mar 05 18:53	0° Υ	1.25206.177
evening rise	16057 Mar 31 04:30	2° 8 58'19		max. Earth dist.	16058 Mar 09 20:57	8°Υ11'48	1.35396 AU
	16057 Apr 16 22:20	0°II	0.501.510.4	desc. node	16058 Mar 13 04:53	14° Y 35'56	
evening max el	16057 May 05 14:57	23° Ⅱ 37'41	25°15'34	evening rise	16058 Mar 13 20:28	15° Y 48'59	
_	16057 May 14 09:50	0°€			16058 Mar 21 20:29	0° 8	
retrograde	16057 May 17 18:00	0°5540'11			16058 Apr 11 10:34	0°Щ	
asc. node	16057 May 20 16:48	0°904'10		evening max el	16058 Apr 18 04:31	7° Ⅲ 26'58	26°22'55
	16057 May 20 20:41	30°RⅡ		retrograde	16058 May 01 03:24	14° Ⅲ 50′19	
evening set	16057 May 23 14:54	28° Ⅱ 12'28		evening set	16058 May 07 10:21	12° Ⅱ 17'53	
min. Earth dist.	16057 May 27 22:55	23° Ⅱ 23'44	0.68111 AU	asc. node	16058 May 07 13:59	12° Ⅲ 10′21	
inferior conj	16057 May 29 06:14	21° Ⅱ 41'45	2°19'15	min. Earth dist.	16058 May 11 12:05	8° Ⅱ 04'34	0.66891 AU
minimum elong	16057 May 29 04:06	21° Ⅱ 48'43	2°17'58	inferior conj	16058 May 13 08:26	5° Ⅱ 49'16	1°40'37
morning rise	16057 Jun 03 17:40	15° Ⅱ 48'19		minimum elong	16058 May 13 06:21	5° Ⅱ 55'37	1°39'19
direct	16057 Jun 07 07:56	14° ∏ 34'11		morning rise	16058 May 19 03:20	0° Ⅱ 06'59	
morning max el	16057 Jun 14 07:51	18° Ⅲ 23'14	19°13'55		16058 May 19 08:14	30° ₹ 8	
desc. node	16057 Jun 22 08:38	28° Ⅱ 16'53		direct	16058 May 22 07:03	29° 8 10'56	
	16057 Jun 23 13:46	0 \circ			16058 May 25 07:57	Π $^{\circ}0$	
greatest brilliancy	16057 Jun 27 02:08	5° © 07'52	-0.7m	morning max el	16058 May 28 18:41	2° Ⅲ 37'11	18°27'39
morning set	16057 Jul 08 13:29	22° © 34'19		desc. node	16058 Jun 09 05:40	17° Ⅱ 56′23	
	16057 Jul 13 09:01	$0^{\circ}\Omega$			16058 Jun 16 22:53	0°€	
max. Earth dist.	16057 Jul 21 15:00	12° Ω 50′27	1.45496 AU	morning set	16058 Jun 18 10:53	2° 5 21'53	
superior conj	16057 Jul 24 19:56	17° Ω 53'11		superior conj	16058 Jul 04 05:50	27° © 06'11	-2°12'15
minimum elong	16057 Jul 25 00:12	18° Ω 09'59	2°11'33	minimum elong	16058 Jul 04 02:24	26° © 52'47	2°12'52
	16057 Aug 01 10:02	0° m)		max. Earth dist.	16058 Jul 04 10:31		1.45994 AU
evening rise	16057 Aug 08 10:35	11° Mp 26'32			16058 Jul 06 02:27	0 \circ Ω	
asc. node	16057 Aug 16 16:53	24° m 55'40		evening rise	16058 Jul 20 02:25	21° Ω 54'36	
	16057 Aug 19 22:50	0∘ 亚			16058 Jul 25 05:52	0° m y	
evening max el	16057 Aug 27 09:30	9° ≏ 41'04	18°15'31	greatest brilliancy	16058 Jul 28 20:26	5° Mg 37′46	-0.8m
retrograde	16057 Sep 02 18:23	13° ≏ 03'48		asc. node	16058 Aug 03 13:36	14° m 14'04	
evening set	16057 Sep 05 16:31	12° ≏ 17'11		evening max el	16058 Aug 10 21:44	23° m 28'07	18°46'38
inferior conj	16057 Sep 11 15:38	6° ≏ 49'35	1°52'28	retrograde	16058 Aug 17 12:59	27° m 04'28	
minimum elong	16057 Sep 11 17:56	6° ≏ 42'57	1°51'48	evening set	16058 Aug 20 20:28	26° Mp 01'36	
min. Earth dist.	16057 Sep 14 00:41	4° ₽ 06'02	0.64342 AU	inferior conj	16058 Aug 26 10:40	20° m 19'45	2°31'31
morning rise	16057 Sep 17 17:41	0° ≙ 29'45		minimum elong	16058 Aug 26 12:48	20° m 13'06	2°30'51
desc. node	16057 Sep 18 06:04	0° ჲ 06'11		min. Earth dist.	16058 Aug 28 06:00	18° m 04'28	0.66182 AU
	16057 Sep 18 09:29	30°R, Mp		morning rise	16058 Sep 01 04:08	13° m 53'38	
direct	16057 Sep 24 07:02	27° m 55'21		desc. node	16058 Sep 05 03:26	11° Mp 36'20	
	16057 Sep 30 19:17	0∘ ত		direct	16058 Sep 07 10:25	11° m)16'11	
morning max el	16057 Oct 08 00:16	5° ≏ 52'50	27°30'24	morning max el	16058 Sep 20 11:46	19° m 00'10	26°33'37
	16057 Oct 26 11:03	0° M ₊			16058 Sep 29 20:18	0∘ ⊽	
morning set	16057 Nov 12 04:38	29°M28'31			16058 Oct 19 11:34	0° M	
	16057 Nov 12 10:59	0° ∡		morning set	16058 Oct 26 07:49	12°M23'06	
asc. node	16057 Nov 12 18:05	0° ∡ ³35′17		max. Earth dist.	16058 Oct 30 06:12	19° M 59'25	1.34334 AU
max. Earth dist.	16057 Nov 16 19:12	8° ∡ ′51′06	1.32685 AU	asc. node	16058 Oct 30 14:55	20°M42'36	
superior conj	16057 Nov 20 06:15		1°04'29	superior conj	16058 Nov 04 05:28	0° ∡ '05'05	
minimum elong	16057 Nov 20 03:53		1°04'49	minimum elong	16058 Nov 04 03:28	29°M54'39	0°41'24
	16057 Nov 26 14:55	0°ಕ			16058 Nov 04 04:30	0° ∡ 7	
evening rise	16057 Nov 27 05:06	1° る 16'14		evening rise	16058 Nov 11 14:33	15° ∡ ′38′16	
	16057 Dec 12 22:51	0° ≈			16058 Nov 18 18:47	0°₹	
desc. node	16057 Dec 15 04:00	2° ≈ 56′05		evening max el	16058 Dec 01 03:22	17° る 52'56	21°11'21
evening max el	16057 Dec 19 11:56	7° ≈ 45'24	22°49'07	desc. node	16058 Dec 02 01:00	18° る 44'19	
retrograde	16058 Jan 01 12:49	14° ≈ 12'31		retrograde	16058 Dec 12 22:45	23° る 43'30	
evening set	16058 Jan 05 12:55	13° ≈ 37'36		evening set	16058 Dec 15 17:12	23° る 25'37	
min. Earth dist.	16058 Jan 12 21:09	10° ≈ 15′16	0.54670 AU	inferior conj	16058 Dec 24 11:05	19° る 35'00	
inferior conj	16058 Jan 13 20:23	9° ≈ 42'18	-5°59'38	minimum elong	16058 Dec 24 04:25	19° る 44'25	5°43'48
minimum elong	16058 Jan 13 22:50	9° ≈ 38'49	5°58'54	min. Earth dist.	16058 Dec 25 02:33		0.54403 AU
morning rise	16058 Jan 22 10:00	5° ≈ 53'29		morning rise	16059 Jan 01 15:53	15° る 44'02	
direct	16058 Jan 25 09:41	5° ≈ 32'54		direct	16059 Jan 05 17:05	15° る 08'35	
morning max el	16058 Feb 06 01:15	11° ≈ 10′11	21°04'51	morning max el	16059 Jan 18 16:29	21° る 27'38	22°47'27
asc. node	16058 Feb 08 16:43	13° ≈ 59′20			16059 Jan 25 21:13	0° ≈	
	16058 Feb 19 02:37	0°)		asc. node	16059 Jan 26 14:00	1° ≈ 00'13	

morning set	16059 Feb 10 01:59	27° ≈ 41'11		direct	16059 Dec 17 06:21	24° ≯ 27′01	
	16059 Feb 11 03:58	0°) €			16059 Dec 29 14:18	0°る	
				morning max el	16059 Dec 31 00:52	1°る18'32	24°37'31
superior conj	16059 Feb 17 01:04	12°) 39′53	1°22'50	asc. node	16060 Jan 13 11:14	18° る 58'59	2.0751
				asc. nouc			
minimum elong	16059 Feb 17 03:12	12° 米 51'15	1°22'54		16060 Jan 19 13:37	0° ≈	
max. Earth dist.	16059 Feb 20 12:45	20° ∺ 00'48	1.33577 AU	morning set	16060 Jan 25 13:56	12° ≈ 22'45	
evening rise	16059 Feb 25 02:15	29°) 13′05					
	16059 Feb 25 11:52	$0^{\circ}\mathbf{\Upsilon}$		superior conj	16060 Feb 01 08:16	27°≈12'32	1°33'28
desc. node	16059 Feb 28 01:32	4° Y 54'50		minimum elong	16060 Feb 01 09:33	27°≈19'36	1°33'52
	16059 Mar 14 23:40	0°8			16060 Feb 02 14:52	0° ∀	
avanina may al	16059 Mar 31 18:10		27°11'58	mov. Earth diat	16060 Feb 02 14:32	1 1 1	1.32207 AU
evening max el		_	2/-11/38	max. Earth dist.			1.32207 AU
retrograde	16059 Apr 14 06:50	28° 8 35'14		evening rise	16060 Feb 08 18:32	13° 米 01′19	
evening set	16059 Apr 20 21:35	26° 8 04'28		desc. node	16060 Feb 14 22:11	24°) 59′52	
asc. node	16059 Apr 24 11:11	22° 8 44'11			16060 Feb 17 16:30	$0^{\circ}\mathbf{\Upsilon}$	
min. Earth dist.	16059 Apr 24 18:42	22° 8 23'52	0.65259 AU		16060 Mar 09 05:29	0°B	
inferior conj	16059 Apr 27 03:36	19° 8 44'36	0°49'22	evening max el	16060 Mar 13 06:26	4° 8 13'53	27°35'21
minimum elong	16059 Apr 27 02:19	19° 8 48'13	0°48'22	retrograde	16060 Mar 27 03:00	11° 8 44'21	27 33 21
Č	*		0 46 22	•			
morning rise	16059 May 03 08:47	14° 8 15'14		evening set	16060 Apr 02 22:12	9° 8 22'15	
direct	16059 May 06 03:00	13° 8 34'41		min. Earth dist.	16060 Apr 06 16:42	6° 8 10'19	
morning max el	16059 May 12 10:15	16° 8 50'31	17°58'20	inferior conj	16060 Apr 09 12:46	3° 8 19'15	-0°15'38
	16059 May 22 04:14	$\Pi^{\circ}0$		minimum elong	16060 Apr 09 13:16	3° 8 17'58	0°15'47
desc. node	16059 May 27 02:37	7° Ⅱ 57'19		transit middle	16060 Apr 09 13:16	3° 8 17'58	0°15'47
morning set	16059 May 30 11:08	13° Ⅱ 27'16		transit begin	16060 Apr 09 12:47	3° 8 19'12	
morning set	•	0°95			-	3° 8 16'45	
	16059 Jun 09 15:52	0.50		transit end	16060 Apr 09 13:45	_	
				asc. node	16060 Apr 10 08:27	2° 8 29'58	
superior conj	16059 Jun 13 19:01	6° ॐ 34'01	-1°53'49		16060 Apr 13 02:41	30° ŖƳ	
minimum elong	16059 Jun 13 10:39	6° ॐ 00'54	1°53'56	morning rise	16060 Apr 16 06:56	28° Y 05′15	
max. Earth dist.	16059 Jun 17 06:42	12°903'00	1.45747 AU	direct	16060 Apr 18 16:51	27° Y '37'03	
	16059 Jun 28 20:47	$0^{\circ}\Omega$			16060 Apr 24 03:57	0°႘	
evening rise	16059 Jun 29 20:51	1° Ω 32'20		morning max el	16060 Apr 25 03:49	0° 8 54'12	17046'25
•			0.7	•		_	17 40 23
greatest brilliancy	16059 Jul 13 11:11	22° Ω 05′25	-0.7m	morning set	16060 May 11 13:17	25° 8 45'54	
	16059 Jul 19 01:30	0° ™		desc. node	16060 May 12 23:29	28° 8 12'51	
asc. node	16059 Jul 21 10:21	3°Mp04'16			16060 May 14 00:29	Π °0	
evening max el	16059 Jul 25 05:16	7° Mp 21'06	19°34'11				
retrograde	16059 Aug 01 10:54	11° m 23'25		superior conj	16060 May 24 01:52	16° Ⅱ 52'19	-1°21'39
evening set	16059 Aug 05 04:24	10° Mp 02'55		minimum elong	16060 May 23 18:21	16° Ⅲ 21'31	1°21'26
inferior conj	16059 Aug 10 12:57		2°55'43	max. Earth dist.	16060 May 30 01:28	26°∏31'32	1.44775 AU
minimum elong	16059 Aug 10 14:23	4° mp 03'28		man. Darm dige.	16060 Jun 01 06:09	0.8e	1, 70 110
2	-						
min. Earth dist.	16059 Aug 11 18:15		0.67621 AU	evening rise	16060 Jun 08 07:19	10°956'58	
	16059 Aug 13 18:26	30°RΩ			16060 Jun 21 00:29	0 \circ Ω	
morning rise	16059 Aug 15 23:51	27° Ω 41′56		asc. node	16060 Jul 07 07:09	21° Ω 16′19	
direct	16059 Aug 21 20:14	25° Ω 09'43		evening max el	16060 Jul 07 06:50	21° Ω 15'32	20°36'23
desc. node	16059 Aug 23 00:48	25° Ω 15'18		retrograde	16060 Jul 15 09:54	25° Ω 54'44	
	16059 Aug 31 10:05	0° m y		evening set	16060 Jul 19 14:05	24° Ω 16′16	
morning max el	16059 Sep 02 22:48	2° m/24'13	25°16'47	inferior conj	16060 Jul 24 19:55	18° Ω 09'55	3°07'11
	16059 Sep 23 22:56	0∘ ⊽	20 10 .,	minimum elong	16060 Jul 24 20:26	18° Ω 08'09	3°06'35
	-						
morning set	16059 Oct 08 19:37	24° Ω 36'27		min. Earth dist.	16060 Jul 25 11:27	17°Ω16'25	0.68596 AU
	16059 Oct 11 18:39	0° M		morning rise	16060 Jul 30 02:29	11° Ω 47'23	
max. Earth dist.	16059 Oct 12 08:27	1° M 04'07	1.36443 AU	direct	16060 Aug 04 11:16	9° Ω 27'04	
asc. node	16059 Oct 17 11:40	10°M53'48		desc. node	16060 Aug 08 22:09	10° Ω 45'19	
				morning max el	16060 Aug 15 09:43	15° Ω 58'37	23°49'33
superior conj	16059 Oct 18 19:31	13°M31'02	0°12'00	Č	16060 Aug 26 23:25	0° ™	
minimum elong	16059 Oct 18 18:46	13°M27'18	0°12'19		16060 Sep 15 21:55	0∘ ⊽	
•			0 12 19		*		
behind sun begin	16059 Oct 18 14:36	13°M06'41		morning set	16060 Sep 19 11:53	5° Ω 59'07	
behind sun end	16059 Oct 18 22:55	13° M 47'57		max. Earth dist.	16060 Sep 23 07:21	12° ≏ 34'26	1.38817 AU
evening rise	16059 Oct 26 20:34	29° ™ 50'35					
	16059 Oct 26 22:25	0° ∡ 7		superior conj	16060 Sep 30 20:47	26° ≏ 21'27	-0°22'01
evening max el	16059 Nov 13 08:12	28° ∡ ⁴42'15	19°51'23	minimum elong	16060 Sep 30 22:21	26° ≏ 28'49	0°21'27
Č	16059 Nov 14 17:32	0° ට		3	16060 Oct 02 18:47	0°M₊	
desc. node	16059 Nov 18 22:05	2° る 45'40		asc. node	16060 Oct 03 08:23	1°M05'13	
retrograde	16059 Nov 23 12:37	3°る47'06		evening rise	16060 Oct 09 20:34	13°M46'49	
evening set	16059 Nov 25 13:53	3° ප 35'41			16060 Oct 18 13:33	0° ∡	
	16059 Dec 03 15:51	30°R ✓		evening max el	16060 Oct 26 03:11	10° ∡ °22'19	18°53'38
inferior conj	16059 Dec 04 07:48	29° ∡ ³35'33	-4°34'40	retrograde	16060 Nov 03 18:36	14° ∡ °43′58	
minimum elong	16059 Dec 03 21:47	29° ₹ 50'56	4°31'02	desc. node	16060 Nov 04 19:16	14° ∡ °40′28	
min. Earth dist.	16059 Dec 06 09:28	28° ₹ 19'15	0.55086 AU	evening set	16060 Nov 05 16:03	14° ∡ ³32'13	
morning rise	16059 Dec 12 04:22	25° ₹ 23'47	-	inferior conj	16060 Nov 13 22:18	10° х 13′13	-2°54'10
	12 01.22	/			15 22.10		

minimum elong	16060 Nov 13 15:10	10° ∡ 25'52	2°50'47	min. Earth dist.	16061 Oct 29 16:40	18°M₅56'58	0.58608 AU
min. Earth dist.	16060 Nov 16 21:10	8° ₹ '07'52	0.56575 AU	morning rise	16061 Nov 02 14:52	16°ML15'07	0.50000110
morning rise	16060 Nov 21 11:25	5° х 26'49		direct	16061 Nov 09 00:30	14°M26'19	
direct	16060 Nov 27 08:24	4° х 04'48		morning max el	16061 Nov 23 07:29	22°M04'47	27°25'50
morning max el	16060 Dec 11 12:13	11° ∡ ¹21'59	26°16'06	C	16061 Nov 30 07:29	0° ∡ ¹	
C	16060 Dec 25 20:22	8°0		asc. node	16061 Dec 17 05:31	26° ₹ '55'16	
asc. node	16060 Dec 30 08:24	7° る 41'19			16061 Dec 18 19:55	ರ°0	
morning set	16061 Jan 09 00:50	26° ප 57'31		morning set	16061 Dec 24 08:52	11° る 20'07	
	16061 Jan 10 10:28	0° ≈					
				superior conj	16061 Dec 31 06:02	26° る 29'28	1°36'24
superior conj	16061 Jan 15 18:35	11° ≈ 51′04	1°37'57	minimum elong	16061 Dec 31 05:15	26° る 25'02	1°37'04
minimum elong	16061 Jan 15 18:50	11° ≈ 52′29	1°38'34	max. Earth dist.	16061 Dec 31 01:14	26° පි 02'31	1.30999 AU
max. Earth dist.	16061 Jan 16 17:33	13° ≈ 59′00	1.31340 AU		16062 Jan 01 19:38	0° ≈	
evening rise	16061 Jan 22 18:40	27° ≈ 07'33		evening rise	16062 Jan 07 00:16	11° ≈ 25'36	
	16061 Jan 24 03:48	0° ∀			16062 Jan 16 08:33	0° ∀	
desc. node	16061 Jan 31 18:54	14°) 45′25		desc. node	16062 Jan 18 15:40	4° ∺ 03'27	
	16061 Feb 10 01:21	0° Υ		evening max el	16062 Feb 05 16:36	28° ¥ 27'15	26°43'19
evening max el	16061 Feb 23 14:49	16° Y 45′27	27°26'50		16062 Feb 07 09:36	0° Υ	
retrograde	16061 Mar 09 14:48	24°Υ08'31		retrograde	16062 Feb 19 17:01	5°Υ39'55	
evening set	16061 Mar 16 09:27	22° Υ 02'11		evening set	16062 Feb 26 04:07	3°Y56'08	
min. Earth dist.	16061 Mar 20 04:42	19° Υ 12'14	0.61086 AU	min. Earth dist.	16062 Mar 02 06:23	1°Υ17'43	0.58834 AU
inferior conj	16061 Mar 23 08:32	16° Υ 24'19			16062 Mar 03 23:10	30° ₹ ₩	2002110
minimum elong	16061 Mar 23 11:57	16° ℃ 16'43	1°33'02	inferior conj	16062 Mar 05 11:09	28°) (49'58	
asc. node	16061 Mar 28 05:47	12° Υ 36'20		minimum elong	16062 Mar 05 18:09	28°\(\frac{1}{3}6'26	3°00'29
morning rise	16061 Mar 30 17:45	11° Y 28'47 11° Y 09'31		morning rise	16062 Mar 13 11:43	24°) 15′28	
direct	16061 Apr 01 20:59	11° γ 109'31 14° Υ '39'22	17953125	direct	16062 Mar 15 10:58	24° ₭ 01'37 24° ₭ 02'00	
morning max el	16061 Apr 08 20:19 16061 Apr 19 10:38	0° 8	17°52'35	asc. node morning max el	16062 Mar 15 03:08 16062 Mar 23 08:07	24° X 02'00 27° X 55'44	18°18'03
morning set	16061 Apr 24 11:47	9° 8 00'46		morning max er	16062 Mar 25 05:54	27 γ (33 44	16 16 03
desc. node	16061 Apr 29 20:18	18° 8 38'09		morning set	16062 Apr 08 01:03	22° Υ 55'11	
desc. Hode	10001 Apr 29 20.18	10 03009		morning set	16062 Apr 08 01:03	0° 8	
superior conj	16061 May 05 08:09	28° 8 15'09	-0°43'53	desc. node	16062 Apr 16 17:04	9° 8 09'10	
minimum elong	16061 May 05 04:14	27° 8 58'16		dese. node	1000 2 11p1 10 17.01	, 00, 10	
8	16061 May 06 08:38	0°II		superior conj	16062 Apr 17 12:32	10° 8 37'47	-0°06'46
max. Earth dist.	16061 May 12 16:29	10° Ⅲ 33'56	1.43177 AU	minimum elong	16062 Apr 17 11:59	10° 8 35'18	0°07'06
evening rise	16061 May 19 02:20	20° Ⅱ 49'46		behind sun begin	16062 Apr 17 05:19	10° 8 04'57	
	16061 May 25 01:01	0 \circ \odot		behind sun end	16062 Apr 17 18:40	11° 8 05'35	
	16061 Jun 15 11:20	$0^{\circ}\Omega$		max. Earth dist.	16062 Apr 25 02:22	23° 8 56'36	1.41126 AU
evening max el	16061 Jun 20 02:33	5° Ω 09'24	21°50'05		16062 Apr 28 17:13	Π°	
asc. node	16061 Jun 24 04:02	8° Ω 37'25		evening rise	16062 Apr 29 16:17	1° Ⅱ 34'39	
retrograde	16061 Jun 29 08:17	10° £ 32′39			16062 May 18 09:50	0ಂತಾ	
evening set	16061 Jul 03 23:38	8° Ω 37'07		evening max el	16062 Jun 02 18:06	19° 5 03'46	23°10'33
inferior conj	16061 Jul 09 05:21	2° Ω 20′28	3°07'23	asc. node	16062 Jun 11 01:00	24° 9 51'42	
minimum elong	16061 Jul 09 04:54	2° Ω 22'01	3°06'40	retrograde	16062 Jun 13 04:34	25° © 11'35	
min. Earth dist.	16061 Jul 09 07:33	2° Ω 12'48	0.69086 AU	evening set	16062 Jun 18 07:25	23° 5 01'04	
	16061 Jul 10 22:12	30°ષ્દ્		min. Earth dist.	16062 Jun 23 04:30	17° © 13'44	0.69083 AU
morning rise	16061 Jul 14 10:00	26° © 04'07		inferior conj	16062 Jun 23 15:18	16° © 36'20	2°57'02
direct	16061 Jul 19 06:31	24°900'14		minimum elong	16062 Jun 23 14:00	16°5540'50	2°56'07
desc. node	16061 Jul 26 19:28	27°9541'54		morning rise	16062 Jun 28 20:31	10°\$27'42	
morning max el	16061 Jul 28 22:26	29° © 41'25	22°20'51	direct	16062 Jul 03 04:50	8°542'43	20050126
	16061 Jul 29 05:47	0° N		morning max el	16062 Jul 11 15:40	13°533'49	20°58'26
	16061 Aug 20 16:54	0°M) 16°M>22127		desc. node	16062 Jul 13 16:43	15°543'29	
morning set max. Earth dist.	16061 Aug 31 04:59	16° Mp 22'37	1 41101 ATT	morning sat	16062 Jul 24 16:23	0° Ω 25° Ω 49'08	
max. Earm dist.	16061 Sep 05 08:40	24°Mp51'31 0° Ω	1.41191 AU	morning set	16062 Aug 10 23:14		
	16061 Sep 08 09:22	V ==		max. Earth dist.	16062 Aug 13 15:17 16062 Aug 18 15:44	0° т у 8° т у00'58	1.43288 AU
superior conj	16061 Sep 13 04:57	8° ≏ 25'34	-0°58'43	max. Lartii dist.	10002 Aug 10 13.44	0 11/00 20	1.43200 AC
minimum elong	16061 Sep 13 04:37	8° Ω 46'35		superior conj	16062 Aug 25 15:52	19° m 35'07	-1°34'03
asc. node	16061 Sep 20 05:04	21° £ 12'39	3 3 / 30	minimum elong	16062 Aug 25 13:32 16062 Aug 25 23:19	20° m) 06'35	
evening rise	16061 Sep 23 11:12	27° ⊆ 17'39		violig	16062 Aug 31 17:28	0∘ ⊽	- -
	16061 Sep 24 21:57	0°M		evening rise	16062 Sep 06 12:12	0 — 10° ≏ 12'32	
evening max el	16061 Oct 09 08:56	22°M46'53	18°17'48	asc. node	16062 Sep 07 01:45	11° ≏ 12'47	
retrograde	16061 Oct 16 20:02	26°M35'10			16062 Sep 18 05:33	0°M	
evening set	16061 Oct 18 21:22	26°M18'29		evening max el	16062 Sep 22 21:13	5°M46'48	18°02'14
desc. node	16061 Oct 22 16:31	24°M30'12		retrograde	16062 Sep 29 14:17	9° M 14'25	
inferior conj	16061 Oct 26 10:35	21°M38'14	-1°12'24	evening set	16062 Oct 01 22:53	8° M 48'44	
minimum elong	16061 Oct 26 07:51	21°M43'53	1°10'45	inferior conj	16062 Oct 08 19:06	3°M48'25	0°14'38

	1.00.00	20 W 45H 5	001.4140		16062 0 06 12 06	100011155	10005122
minimum elong	16062 Oct 08 19:35	3°M47'17	0°14'48	evening max el	16063 Sep 06 12:06	19° £ 11'57	18°05'33
transit middle	16062 Oct 08 19:35	3°M47'17	0°14'48	retrograde	16063 Sep 12 21:10	22° ≏ 32'20	
transit begin	16062 Oct 08 18:15	3°M50'27		evening set	16063 Sep 15 14:15	21° ≙ 54'06	
transit end	16062 Oct 08 20:54	3°M44'07		inferior conj	16063 Sep 21 20:05	16° ≏ 35'54	1°22'11
desc. node	16062 Oct 09 13:49	3° M 03'19		minimum elong	16063 Sep 21 22:06	16° ≏ 30′26	1°21'40
min. Earth dist.	16062 Oct 11 21:41	0°M50'42	0.60890 AU	min. Earth dist.	16063 Sep 24 12:32	13° ≏ 42'11	0.63144 AU
	16062 Oct 12 20:28	30° ₹ Ω		desc. node	16063 Sep 26 11:09	11° ≙ 47'55	
morning rise	16062 Oct 15 13:13	27° ≙ 55'43		morning rise	16063 Sep 28 03:48	10° ≏ 23'32	
direct	16062 Oct 22 05:05	25° ≏ 43'12		direct	16063 Oct 04 19:45	7° ≏ 54'33	
	16062 Nov 01 08:38	o° m ₊		morning max el	16063 Oct 18 18:41	15° ≏ 53'13	27°50'11
morning max el	16062 Nov 05 10:26	3°M36'23	27°57'21		16063 Oct 30 09:49	0° M .	
	16062 Nov 24 23:21	0° ∡ ¹			16063 Nov 17 16:01	0° ✓	
asc. node	16062 Dec 04 02:34	16° ∡ ³32'12		asc. node	16063 Nov 20 23:32	6° ₹ ¹25'21	
morning set	16062 Dec 08 12:06	25° х 25′45		morning set	16063 Nov 22 08:14	9° х 09′12	
C	16062 Dec 10 15:55	0°రె		max. Earth dist.	16063 Nov 27 08:47	19° ∡ ³38′08	1.31984 AU
max. Earth dist.	16062 Dec 14 07:33	7° ට 58'11	1.31207 AU				
				superior conj	16063 Nov 30 00:50	25° ₹ 25'12	1°15'09
superior conj	16062 Dec 15 16:46	11° ට 02'35	1°28'49	minimum elong	16063 Nov 29 22:34	25° × 12'51	1°15'36
minimum elong	16062 Dec 15 15:05	10°る53'12	1°29'25	minimum ciong	16063 Dec 02 02:54	0°궁	1 13 30
evening rise	16062 Dec 22 09:20	25° ප් 50'54	1 2) 23	evening rise	16063 Dec 02 02:34 16063 Dec 06 20:03	0019110	
evening rise	16062 Dec 24 07:57	23 3 0303∓		evening rise	16063 Dec 16 17:50	0°≈	
desc. node	16063 Jan 05 12:29	0 ∞ 22°≈43'46		desc. node	16063 Dec 23 09:21	0 ∞ 10°≈32'51	
desc. node	16063 Jan 10 10:27	0° \					22949150
			2592711.1	evening max el	16063 Dec 30 21:02	19°≈25'30	23°48'59
evening max el	16063 Jan 18 10:11	9°) 16'43	25-27-11	retrograde	16064 Jan 13 08:26	26°≈06'10	
retrograde	16063 Feb 01 07:36	16° ¥ 15′52		evening set	16064 Jan 18 02:13	25°≈17'30	0.55005.433
evening set	16063 Feb 07 02:30	14° ¥ 59'32		min. Earth dist.	16064 Jan 24 08:27	22°≈15'52	0.55235 AU
min. Earth dist.	16063 Feb 11 22:54	12°) 18′13	0.56785 AU	inferior conj	16064 Jan 26 02:55	21°≈13′03	
inferior conj	16063 Feb 14 17:25	10°) €27'09		minimum elong	16064 Jan 26 09:49		5°38'41
minimum elong	16063 Feb 15 02:47	10° 米 11′29	4°29'01	morning rise	16064 Feb 03 18:59	17° ≈ 17'37	
morning rise	16063 Feb 23 05:54	6° ₩ 13'55		direct	16064 Feb 06 07:18	17° ≈ 01'49	
direct	16063 Feb 25 06:44	6° ∺ 01'37		asc. node	16064 Feb 16 21:53	22° ≈ 06'32	
asc. node	16063 Mar 02 00:31	7° ∺ 12'47		morning max el	16064 Feb 17 00:51	22° ≈ 13'42	20°14'15
morning max el	16063 Mar 06 11:01	10°) 30′56	19°04'39		16064 Feb 23 07:55	0° ∀	
	16063 Mar 19 06:55	0 ° Υ		morning set	16064 Mar 06 06:25	21° ℋ 51′05	
morning set	16063 Mar 23 00:24	7° Ƴ 15′13			16064 Mar 10 05:32	0° Υ	
superior conj	16063 Mar 31 10:46	23° Ƴ 47'37	0°26'10	superior conj	16064 Mar 13 22:36	7° Ƴ 33'18	0°53'12
minimum elong	16063 Mar 31 12:21	23° Y 55'13	0°25'39	minimum elong	16064 Mar 14 01:04	7° Ƴ 45'44	0°52'47
desc. node	16063 Apr 03 13:46	29° Y 41'35		max. Earth dist.	16064 Mar 19 15:38	18° Ƴ 43'22	1.36605 AU
	16063 Apr 03 17:44	9° 8		desc. node	16064 Mar 20 10:26	20° Y 12′03	
max. Earth dist.	16063 Apr 07 08:39	6° 8 36'09	1.38854 AU	evening rise	16064 Mar 23 10:04	25° Ƴ 42'39	
evening rise	16063 Apr 11 03:32	13° 8 14'32			16064 Mar 25 19:42	8° 0	
	16063 Apr 21 10:02	Π $^{\circ}0$			16064 Apr 13 22:26	Π $^{\circ}0$	
	16063 May 13 11:37	0°©		evening max el	16064 Apr 27 21:26	16° Ⅱ 52'44	25°46'04
evening max el	16063 May 16 07:49	2°958'56	24°31'39	retrograde	16064 May 10 09:35	24° Ⅱ 05′02	
retrograde	16063 May 27 21:24	9°5544'32		asc. node	16064 May 14 19:11	22° Ⅱ 46'58	
asc. node	16063 May 28 22:04	9°5540'04		evening set	16064 May 16 10:55	21° Ⅲ 34'55	
evening set	16063 Jun 02 11:45	7°522'09		min. Earth dist.	16064 May 20 16:13	17° I 101'18	0.67647 AU
min. Earth dist.	16063 Jun 07 00:06	2°512'01	0.68599 AU	inferior conj	16064 May 22 04:58	15° Ⅱ 04'32	2°04'21
inferior conj	16063 Jun 07 23:50	0°952'26	2°36'12	minimum elong	16064 May 22 02:47	15° I I11'29	2°03'02
minimum elong	16063 Jun 07 21:55	0°958'55		morning rise	16064 May 27 19:13	9° Ⅱ 15'26	2 03 02
minimum ciong	16063 Jun 08 15:33	30°RII	2 33 03	direct	16064 May 27 15:15	8° I 1920	
morning rise	16063 Jun 13 08:13	24° II 52'53		morning max el	16064 Jun 06 22:33	11° I I46'41	18°52'10
direct	16063 Jun 17 04:53	23° I 27'31		desc. node	16064 Jun 16 10:58	23° I I56'10	16 32 10
			10047147			29° I 53'50	0.0
morning max el	16063 Jun 24 15:30	27° II 36'00	19°47'47	greatest brilliancy	16064 Jun 20 10:49		-0.8m
	16063 Jun 26 21:31	0°©			16064 Jun 20 12:26	0°95	
desc. node	16063 Jun 30 13:53	4° © 32'23		morning set	16064 Jun 29 13:42	13° © 56'31	
	16063 Jul 18 01:44	0°N		P 4 "	16064 Jul 09 21:49	0°N	1 45000 : **
morning set	16063 Jul 21 03:46	4° Ω 42'53	1 110=2 :==	max. Earth dist.	16064 Jul 13 23:31	6° Ω 20′50	1.45803 AU
max. Earth dist.	16063 Aug 01 05:09	21° Ω 55'16	1.44878 AU			_	
				superior conj	16064 Jul 15 18:56	9° Ω 10'35	
superior conj	16063 Aug 06 03:14	29° Ω 46′10		minimum elong	16064 Jul 15 20:06	9° Ω 15′07	2°14'44
minimum elong	16063 Aug 06 10:16	0° Mp 14′26	2°01'41		16064 Jul 28 22:21	0° m	
	16063 Aug 06 06:41	0° m		evening rise	16064 Jul 31 00:36	3°M21'56	
evening rise	16063 Aug 19 18:17	22° My $17'43$		asc. node	16064 Aug 10 19:05	20° m 31'48	
	16063 Aug 24 07:53	0∘ ⊽			16064 Aug 17 11:57	0∘ ⊽	
	16063 Aug 24 22:25	1° ≏ 00'54		evening max el	16064 Aug 20 02:07	2° £ 53′10	18°26'43
asc. node	10003 Aug 24 22.23	. —					

ratragrada	16064 Aug 26 12:29	6° ≏ 19'47		greatest brilliancy	16065 Jul 22 05:43	0° mp 20'13	0.7m
retrograde evening set	16064 Aug 29 14:39	5° Ω 26'17		greatest offinancy	16065 Jul 22 00:22	0°m)	-0.7111
inferior conj	16064 Sep 04 09:32	29° m ₂ 52'23	2°11'01	asc. node	16065 Jul 28 15:48	9° m ₂ 39'13	
minimum elong	16064 Sep 04 11:51	29° my 45'27	2°10'19	evening max el	16065 Aug 03 12:33	16° Mp 43'20	19°04'56
minimum clong	16064 Sep 04 06:59	30°R, M)	2 10 17	retrograde	16065 Aug 10 08:55	20° m) 29'20	17 04 30
min. Earth dist.	16064 Sep 06 12:47	27° m) 19'39	0.65172 AU	evening set	16065 Aug 13 20:37	19° Mp 18'54	
morning rise	16064 Sep 10 07:45	23° m/29'18	0.03172 AO	inferior conj	16065 Aug 19 08:00	13°M ₂ 31'11	2°43'29
desc. node	16064 Sep 12 08:31	22° m/05'10		minimum elong	16065 Aug 19 09:53	13° m) 25'08	2°42'50
direct	16064 Sep 16 18:35	20° m 52'41		min. Earth dist.	16065 Aug 20 21:14	11° mp 31'27	0.66840 AU
morning max el	16064 Sep 30 05:37	28° m/45'20	27°09'21	morning rise	16065 Aug 24 22:24	7° Mp 04'25	0.00010710
morning max or	16064 Oct 01 10:35	0ಂ ⊽	27 0721	desc. node	16065 Aug 30 05:53	4° mp 30'59	
	16064 Oct 23 05:43	0° ™		direct	16065 Aug 31 00:37	4° m) 28'36	
morning set	16064 Nov 04 18:30	22°M23'29		morning max el	16065 Sep 12 17:12	12° m) 01'44	26°03'01
asc. node	16064 Nov 06 20:23	26°M28'43		morning max or	16065 Sep 27 03:57	0° ت	20 03 01
use. Houe	16064 Nov 08 14:21	0° √			16065 Oct 15 21:13	o° m	
max. Earth dist.	16064 Nov 09 01:43	0° ∡ 757'57	1.33328 AU	morning set	16065 Oct 18 15:40	5°M01'59	
max. Latur dist.	10004 1107 07 01.43	0 × 3/3/	1.55520 AC	max. Earth dist.	16065 Oct 22 09:06	12°M04'15	1.35185 AU
superior conj	16064 Nov 13 03:59	9° ∡ ¹30'43	0°55'20	asc. node	16065 Oct 24 17:10	16°M38'17	1.55165 AC
minimum elong	16064 Nov 13 01:40	9° × 3043	0°55'38	asc. node	10003 Oct 24 17.10	10 1163817	
evening rise	16064 Nov 20 06:31	24° × ¹ 628	0 33 38	superior conj	16065 Oct 27 23:42	23°M13'15	0°29'28
evening rise	16064 Nov 22 18:29	24 メ ・43 02		minimum elong	16065 Oct 27 22:06	23°M05'06	0°29'44
desc. node		0 る 27°る11'40		minimum elong		23 11603 00 0° x 7	0 29 44
	16064 Dec 09 06:18		22005154		16065 Oct 31 06:31		
evening max el	16064 Dec 11 07:48	29° る 21'48	22°05'54	evening rise	16065 Nov 04 14:50	9° ∡ *04'08	
	16064 Dec 11 23:51	0° ≈			16065 Nov 15 16:44	0°る	20024140
retrograde	16064 Dec 23 21:20	5°≈34'36		evening max el	16065 Nov 23 04:17	9° る 44'15	20°34'40
evening set	16064 Dec 27 08:21	5°≈08'04		desc. node	16065 Nov 26 03:19	12°る17'44	
inferior conj	16065 Jan 04 20:57	1°≈16'51		retrograde	16065 Dec 04 07:39	15°る16'25	
minimum elong	16065 Jan 04 19:19	1° ≈ 19'08	6°00'35	evening set	16065 Dec 06 16:57	15° る 02'19	
min. Earth dist.	16065 Jan 04 13:54	1° ≈ 26'42	0.54448 AU	inferior conj	16065 Dec 15 12:25	11° ろ 08'41	
	16065 Jan 07 04:54	30°೩ರ		minimum elong	16065 Dec 15 03:21	11° る 21'50	
morning rise	16065 Jan 13 07:11	27° る 29'37		min. Earth dist.	16065 Dec 16 19:21	10° පි 23'46	0.54586 AU
direct	16065 Jan 16 17:30	27° る 03'33		morning rise	16065 Dec 23 13:31	7° る 11'13	
	16065 Jan 25 08:24	0° ≈		direct	16065 Dec 28 01:33	6° る 27'40	
morning max el	16065 Jan 28 23:31	2° ≈ 58'49	21°46'32	morning max el	16066 Jan 10 10:48	13° る 01'10	23°34'22
asc. node	16065 Feb 02 19:12	8° ≈ 26′10		asc. node	16066 Jan 20 16:28	25° る 53'32	
	16065 Feb 15 12:06	0° ∀			16066 Jan 23 05:17	0° ≈	
morning set	16065 Feb 18 16:24	6°) 34′00		morning set	16066 Feb 03 04:12	21° ≈ 17'50	
					16066 Feb 07 04:34	0° ∀	
superior conj	16065 Feb 25 20:15	21°) 43′47					
minimum elong	16065 Feb 25 22:41	21° ¥ 56'31	1°13'43	superior conj	16066 Feb 10 00:43	6° ¥ 10'45	1°28'06
	16065 Mar 01 20:40	0° Y		minimum elong	16066 Feb 10 02:32	6° ∺ 20'32	1°28'19
max. Earth dist.	16065 Mar 02 03:33	0° Υ 34'40	1.34581 AU	max. Earth dist.	16066 Feb 12 22:43	12° ∺ 25'36	1.32939 AU
evening rise	16065 Mar 06 08:20	8° Ƴ 48'25		evening rise	16066 Feb 17 18:57	22° ∺ 23'26	
desc. node	16065 Mar 07 07:04	10° Ƴ 36′06			16066 Feb 21 17:09	0° Y	
	16065 Mar 18 09:51	$_{0\circ}$ 8		desc. node	16066 Feb 22 03:43	0° Ƴ 49'32	
	16065 Apr 09 19:55	Π $\circ 0$			16066 Mar 12 03:45	9° 8	
evening max el	16065 Apr 10 11:13	0° Ⅱ 37'46	26°46'26	evening max el	16066 Mar 24 00:18	14° 8 03'45	27°25'18
retrograde	16065 Apr 23 16:21	8° Ⅱ 05'19		retrograde	16066 Apr 06 16:48	21° 8 36'19	
evening set	16065 Apr 30 03:05	5° Ⅱ 32'45		evening set	16066 Apr 13 10:07	19° 8 07'59	
asc. node	16065 May 01 16:22	4° Ⅱ 10′09		min. Earth dist.	16066 Apr 17 05:42	15° 8 40'31	0.64457 AU
min. Earth dist.	16065 May 04 02:42	1° Ⅲ 33'55	0.66249 AU	asc. node	16066 Apr 18 13:37	14° 8 15'45	
	16065 May 05 10:42	30° ₹ 8		inferior conj	16066 Apr 19 19:45	12° 8 54'20	0°23'29
inferior conj	16065 May 06 04:28	29° 8 07'16	1°20'31	minimum elong	16066 Apr 19 19:05	12° 8 56'07	0°22'46
minimum elong	16065 May 06 02:38	29° 8 12'44	1°19'16	morning rise	16066 Apr 26 06:11	7° 8 31'30	
morning rise	16065 May 12 03:24	23° 8 30'20		direct	16066 Apr 28 20:41	6° 8 56'41	
direct	16065 May 15 03:04	22° 8 41'06		morning max el	16066 May 05 04:31	10° 8 11'30	17°51'09
morning max el	16065 May 21 11:40	26° 8 01'02	18°13'07		16066 May 18 21:06	$\Pi^{\circ}0$	
	16065 May 24 23:50	$\Pi^{\circ}0$		desc. node	16066 May 21 04:55	3° ∏ 53′01	
desc. node	16065 Jun 03 07:59	13° Ⅱ 45'27		morning set	16066 May 22 09:46	5° Ⅱ 53'40	
morning set	16065 Jun 09 22:02	24° Ⅱ 16′02		-	•		
<i>5</i> ·	16065 Jun 13 12:08	0ංම 		superior conj	16066 Jun 04 23:24	28° ∏ 09'49	-1°41'22
				minimum elong	16066 Jun 04 14:48	27° I I35'23	
superior conj	16065 Jun 25 03:59	18° © 23'45	-2°06'35		16066 Jun 06 03:00	0.20 2.00	-
minimum elong	16065 Jun 24 21:44	17°959'18		max. Earth dist.	16066 Jun 09 15:57	5° © 36'14	1.45409 AU
max. Earth dist.	16065 Jun 26 20:10		1.45979 AU	evening rise	16066 Jun 20 19:14	22°951'51	
	16065 Jul 02 14:48	0°Ω			16066 Jun 25 11:47	0°Ω	
evening rise	16065 Jul 11 06:18	13° Ω 25'44		greatest brilliancy	16066 Jul 05 15:05	15° Ω 03'52	-0.6m
,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10000 941 11 00.10	15 0 CES TT		or carrott or minute y	-0000 341 00 10.00	10 000002	V.V.II

asc. node	16066 Jul 15 12:34	28° Ω 14'20		max. Earth dist.	16067 May 23 08:49	19° ∏ 53'39 0° ©	1.44161 AU
evening max el	16066 Jul 17 03:09 16066 Jul 17 17:29	0°Mp 0°Mp36′29	19°59'02	evening rise	16067 May 29 18:20 16067 May 31 07:36	0°93 2°9324'21	
retrograde	16066 Jul 25 07:39	4° m 53'53	17 37 02	evening rise	16067 Jun 18 23:59	0°Ω	
evening set	16066 Jul 29 05:32	3° Mp 25'46		evening max el	16067 Jun 30 16:27		21°06'35
	16066 Aug 01 13:41	30°R Ω		asc. node	16067 Jul 02 09:25	16°Ω06'28	
inferior conj	16066 Aug 03 12:34	27° Ω 25'47	3°02'03	retrograde	16067 Jul 09 06:36	19° Ω 28'16	
minimum elong	16066 Aug 03 13:38	27° Ω 22'11	3°01'28	evening set	16067 Jul 13 15:22	17° Ω 42'37	
min. Earth dist.	16066 Aug 04 11:57	26° Ω 06'41	0.68083 AU	inferior conj	16067 Jul 18 20:52	11° Ω 31'44	3°08'34
morning rise	16066 Aug 08 21:19	21° Ω 00′27		minimum elong	16067 Jul 18 20:58	11° £ 31′22	3°07'57
direct	16066 Aug 14 12:46	18° Ω 32'41		min. Earth dist.	16067 Jul 19 06:46	10° Ω 57'19	0.68864 AU
desc. node	16066 Aug 17 03:16	18° Ω 59'30		morning rise	16067 Jul 24 02:18	5° Ω 11′20	
morning max el	16066 Aug 26 04:14	25° Ω 31′09	24°40'30	direct	16067 Jul 29 05:55	2° Ω 57'21	
	16066 Aug 30 06:25	0° m		desc. node	16067 Aug 04 00:38	5° Ω 08'51	
	16066 Sep 20 15:51	0∘ ⊽		morning max el	16067 Aug 08 15:29	9° Ω 08'24	23°11'23
morning set	16066 Sep 30 19:42	16° £ 54'56	1.05400.433		16067 Aug 25 01:48	0° Mp	
max. Earth dist.	16066 Oct 04 08:58	23° £ 15'12	1.37428 AU	morning set	16067 Sep 12 02:22	27° m/52'27	
	16066 Oct 08 00:26	0°M₊		E d l' d	16067 Sep 13 08:55	0∘ ⊽	1 20041 411
aumorior aoni	16066 Oat 11 00:44	6°M24'37	0001157	max. Earth dist.	16067 Sep 16 07:34	5° ≏ 00'16	1.39841 AU
superior conj minimum elong	16066 Oct 11 08:44 16066 Oct 11 08:51	6°M25'08	0°01'32	superior conj	16067 Sep 24 03:15	18° ≏ 55'59	0°37'27
behind sun begin	16066 Oct 11 02:12	5°M52'50	0 01 32	minimum elong	16067 Sep 24 06:05	19° 2 09'02	0°36'47
behind sun end	16066 Oct 11 02:12	6°M57'29		asc. node	16067 Sep 28 10:35	26° ♀ 59'20	0 3047
asc. node	16066 Oct 11 13:53	6°M49'41		ase. Houe	16067 Sep 20 10:39	0°ML	
evening rise	16066 Oct 19 18:37	23°M10'06		evening rise	16067 Oct 03 15:02	6°M55'44	
	16066 Oct 23 05:20	0° ∡ ¹			16067 Oct 17 02:15	0° ∡ 7	
evening max el	16066 Nov 05 15:21	20° ∡ 754'57	19°24'07	evening max el	16067 Oct 19 15:28	2° ∡ 54'52	18°35'55
desc. node	16066 Nov 13 00:27	25° ₹ 26'52		retrograde	16067 Oct 27 17:29	7° ∡ ¹00′28	
retrograde	16066 Nov 15 03:35	25° х¹ 40'49		evening set	16067 Oct 29 16:02	6° ∡ 747'06	
evening set	16066 Nov 17 01:38	25° ∡ ³30′02		desc. node	16067 Oct 30 21:40	6° ∡ ¹25'27	
inferior conj	16066 Nov 25 15:44	21° ≯ ¹22'46	-3°53'49	inferior conj	16067 Nov 06 15:21	2° ∡ 19'27	-2°09'54
minimum elong	16066 Nov 25 06:27	21° х 37'53	3°49'59	minimum elong	16067 Nov 06 10:08	2° ₹ ¹29'20	2°07'11
min. Earth dist.	16066 Nov 28 04:16	19° ∡ ⁴44'18	0.55630 AU		16067 Nov 09 17:11	30°RM₊	
morning rise	16066 Dec 03 09:07	16° ∡ 756'54		min. Earth dist.	16067 Nov 09 19:05	29°M56'31	0.57389 AU
direct	16066 Dec 08 19:49	15° ∡ ¹49'41		morning rise	16067 Nov 14 00:55	27°M17'10	
morning max el	16066 Dec 22 19:37	22° ∡ 53'41	25°21'57	direct	16067 Nov 20 04:20	25°M43'18	
	16066 Dec 29 03:34	0°ರ			16067 Nov 30 18:00	0° ∡ ¹	
asc. node	16067 Jan 07 13:41	14°る12'20		morning max el	16067 Dec 04 09:50	3° ∡ 10′23	26°50'02
	16067 Jan 15 20:25	0° ≈		ī	16067 Dec 23 17:07	0°る	
morning set	16067 Jan 18 15:57	5°≈57'23		asc. node	16067 Dec 25 10:50	3° ろ 09'06	
	16067 I 25 00-22	20047114	1927/07	morning set	16068 Jan 03 01:51	20°る27'12 0°≈	
superior conj minimum elong	16067 Jan 25 09:33 16067 Jan 25 10:25	20°≈47'14 20°≈51'59	1°36'07 1°36'37		16068 Jan 07 10:13	0°≈	
max. Earth dist.	16067 Jan 27 00:50	20 ≈3139 24°≈23'46	1.31772 AU	superior conj	16068 Jan 09 20:35	5° ≈ 26'19	1°38'02
max. Earth dist.	16067 Jan 29 14:45	0° \	1.51772710	minimum elong	16068 Jan 09 20:23	5°≈25'13	1°38'41
evening rise	16067 Feb 01 14:55	6° ₩ 20'27		max. Earth dist.	16068 Jan 10 07:30	6°≈27'24	1.31126 AU
desc. node	16067 Feb 09 00:24	20°) 47′13		evening rise	16068 Jan 16 17:38	20° ≈ 32'28	
	16067 Feb 14 06:38	$0^{\circ}\mathbf{\Upsilon}$		Č	16068 Jan 21 08:20	0° ∀	
evening max el	16067 Mar 06 11:08	26° Ƴ 59'23	27°35'51	desc. node	16068 Jan 26 21:06	10° ¥ 22'01	
	16067 Mar 09 21:58	9° 8			16068 Feb 08 14:48	0° Y	
retrograde	16067 Mar 20 09:59	4° 8 28'13		evening max el	16068 Feb 16 17:14	9° Ƴ 11'41	27°12'45
evening set	16067 Mar 27 05:32	2° 8 11'49		retrograde	16068 Mar 01 18:04	16° Ƴ 30'31	
	16067 Mar 30 01:32	30° ₹Ƴ		evening set	16068 Mar 08 10:12	14° Ƴ 33'23	
min. Earth dist.	16067 Mar 30 23:43	29° Ƴ 10′11	0.62365 AU	min. Earth dist.	16068 Mar 12 07:35	11° Y 49'30	0.60121 AU
inferior conj	16067 Apr 02 23:43	26° Y 18′11		inferior conj	16068 Mar 15 12:43	9° Y ′08'11	
minimum elong	16067 Apr 03 01:20	26° Y 14'19	0°47'02	minimum elong	16068 Mar 15 17:39	8° ℃ 57'50	2°09'12
asc. node	16067 Apr 05 10:56	24°Υ02'25		asc. node	16068 Mar 22 08:19	4° Υ 37'02	
morning rise	16067 Apr 10 00:09	21°Υ11'51		morning rise	16068 Mar 23 04:35	4° Υ 21'00	
direct	16067 Apr 12 06:50	20° Y 48′00	17046145	direct	16068 Mar 25 05:34	4° Υ '04'31 7° Υ '43'39	10000151
morning max el	16067 Apr 18 22:10 16067 Apr 23 16:28	24° Y 09'26 0° ႘	17°46'45	morning max el	16068 Apr 01 13:08 16068 Apr 15 22:02	/°′ ү ′43′39 0° と	18°00'51
morning set	16067 Apr 23 16:28 16067 May 04 21:24	18° 8 38'53		morning set	16068 Apr 17 02:53	2° 8 12'41	
desc. node	16067 May 04 21.24 16067 May 08 01:47	24° 8 13'28		desc. node	16068 Apr 17 02.33	14° 8 41'28	
2000. Hode	16067 May 08 01:47	0°Ⅱ		dose, node	10000 ripi 23 22.34	1. 0-7120	
				superior conj	16068 Apr 27 08:16	20° 8 45'14	-0°27'47
superior conj	16067 May 16 16:11	8° Ⅱ 56'04	-1°05'54	minimum elong	16068 Apr 27 05:54	20° 8 34'48	
minimum elong	16067 May 16 10:04	8° Ⅲ 30′33		Č	16068 May 02 17:02	0°II	
-	•				•		

max. Earth dist.	16068 May 04 21:40	3° Ⅱ 40'14	1.42356 AU	desc. node	16069 Apr 10 19:17	5° 8 13'14	
evening rise	16068 May 10 10:01	12° Ⅲ 38'15		max. Earth dist.	16069 Apr 17 06:11	16° 8 46'02	1.40184 AU
	16068 May 21 17:34	0 \circ \mathfrak{S}		evening rise	16069 Apr 21 09:04	23° 8 46'40	
evening max el	16068 Jun 12 10:19	28° 5 24'59	22°23'50		16069 Apr 25 04:07	Π °0	
	16068 Jun 14 02:27	$0^{\circ}\Omega$			16069 May 15 13:54	0 \circ \odot	
asc. node	16068 Jun 18 06:21	3° Ω 01′15		evening max el	16069 May 26 00:52	12° © 19'42	23°45'19
retrograde	16068 Jun 22 04:08	4° Ω 06'59		asc. node	16069 Jun 05 03:23	18° © 41'11	
evening set	16068 Jun 27 00:22	2° Ω 04'55		retrograde	16069 Jun 05 22:57	18°5544'02	
	16068 Jun 29 01:22	30°Rூ		evening set	16069 Jun 11 06:52	16°9527'52	
inferior conj	16068 Jul 02 06:46	25°5944'47	3°04'13	min. Earth dist.	16069 Jun 15 24:00	10°556'39	0.68946 AU
minimum elong	16068 Jul 02 05:56	25°5547'40	3°03'27	inferior conj	16069 Jun 16 16:20	10°500'46	2°49'28
min. Earth dist.	16068 Jul 02 03:29	25°956'15	0.69153 AU	minimum elong	16069 Jun 16 14:44	10°506'15	2°48'27
morning rise	16068 Jul 07 11:21 16068 Jul 12 02:45	19° © 31'33 17° © 35'17		morning rise direct	16069 Jun 21 22:36	3° © 56'05 2° © 19'27	
direct desc. node	16068 Jul 20 21:55	22°©35'07		morning max el	16069 Jun 26 01:56 16069 Jul 04 01:31	6°950'37	20026140
morning max el	16068 Jul 21 05:38	22° © 54'11	21°44'33	desc. node	16069 Jul 07 19:08	10°©58'19	20 20 40
morning max ci	16068 Jul 27 10:00	0°Ω	21 77 33	dese. Hode	16069 Jul 21 14:26	0°Ω	
	16068 Aug 17 09:05	0° m)		morning set	16069 Aug 01 19:50	16° Ω 57'13	
morning set	16068 Aug 22 09:14	7° m) 49'45		morning sec	16069 Aug 10 03:36	0° m)	
max. Earth dist.	16068 Aug 28 11:14	17° Mp 40'11	1.42136 AU	max. Earth dist.	16069 Aug 10 21:42		1.44043 AU
	16068 Sep 04 18:09	0∘ ⊽					
				superior conj	16069 Aug 17 03:45	11° m)21'51	-1°47'11
superior conj	16068 Sep 05 02:53	0° ≏ 37'57	-1°14'12	minimum elong	16069 Aug 17 11:37		1°46'44
minimum elong	16068 Sep 05 08:56	1° ≙ 04'18	1°13'25	· ·	16069 Aug 28 03:26	0∘ ⊽	
asc. node	16068 Sep 14 07:16	17° ≏ 04'01		evening rise	16069 Aug 29 18:03	2° ≏ 47'43	
evening rise	16068 Sep 16 00:25	20° ≏ 12'26		asc. node	16069 Sep 01 03:56	6° ≏ 59'21	
	16068 Sep 21 10:07	0° M		evening max el	16069 Sep 15 14:20	28° ≏ 46'43	18°01'21
evening max el	16068 Oct 02 00:34	15°M35'46	18°08'51		16069 Sep 16 22:47	0° M	
retrograde	16068 Oct 09 02:30	19° ™ 13'22		retrograde	16069 Sep 22 02:50	2°M09'52	
evening set	16068 Oct 11 06:51	18°M53'11		evening set	16069 Sep 24 14:56	1° M 39'11	
desc. node	16068 Oct 16 18:57	15°M33'41			16069 Sep 27 09:34	30° ₹ Ω	
inferior conj	16068 Oct 18 12:35	14°M03'58		inferior conj	16069 Oct 01 04:35	26° ≏ 30'37	0°45'45
minimum elong	16068 Oct 18 11:26	14°M06'32	0°32'16	minimum elong	16069 Oct 01 05:54	26° ≏ 27'17	0°45'31
min. Earth dist.	16068 Oct 21 18:11	11°M13'25	0.59564 AU	desc. node	16069 Oct 03 16:17	23° ≏ 59'21	
morning rise	16068 Oct 25 12:41	8°M27'30		min. Earth dist.	16069 Oct 04 03:16	23° △ 32'29	0.61863 AU
direct	16068 Nov 01 01:54	6°M28'06	27044116	morning rise	16069 Oct 07 18:13	20° £ 28'14	
morning max el	16068 Nov 15 08:24		27°44'16	direct	16069 Oct 14 10:37	18° ₽ 08'02	25050101
	16068 Nov 28 01:21	0° ∡ ¹		morning max el	16069 Oct 28 14:04	26° Ω 04'31	27°59'01
asc. node	16068 Dec 11 07:54 16068 Dec 15 01:45	22° メ 33'41 0°る			16069 Nov 01 06:06 16069 Nov 21 15:13	0° ጤ 0° ዶ	
morning set	16068 Dec 17 08:06	0 る 4° る 43'04		asc. node	16069 Nov 28 04:53	0 x . 12° x 17'39	
max. Earth dist.	16068 Dec 23 15:14	18° る 29'27	1.31020 AU	morning set	16069 Dec 01 08:34	18° × ⁷ 39'11	
max. Earm dist.	10008 Dec 23 13.14	16 02921	1.51020 AO	morning set	16069 Dec 06 16:26	0°る	
superior conj	16068 Dec 24 07:57	20° ප 03'01	1°33'56	max. Earth dist.	16069 Dec 06 19:58		1.31467 AU
minimum elong	16068 Dec 24 06:45	19° ろ 56'18	1°34'35	man. Darun dibu	1000) 200 00 19.50	0 01710	1.511.07110
	16068 Dec 28 19:01	0° ≈		superior conj	16069 Dec 08 17:44	4° る 31'15	1°23'46
evening rise	16068 Dec 31 00:58	4° ≈ 54'23		minimum elong	16069 Dec 08 15:45	4° ට 20'18	1°24'18
desc. node	16069 Jan 12 17:53	29° ≈ 25'31		evening rise	16069 Dec 15 10:55	19° る 20'38	
	16069 Jan 13 02:10	0°) €			16069 Dec 20 13:24	0°≈	
evening max el	16069 Jan 28 15:52	20°) 31′40	26°14'36	desc. node	16069 Dec 30 14:43	17° ≈ 45′28	
retrograde	16069 Feb 11 15:10	27° ¥ 37′58			16070 Jan 09 05:33	0° ∀	
evening set	16069 Feb 17 20:38	26°) €05'37		evening max el	16070 Jan 10 05:52	0°) 59'46	24°47'09
min. Earth dist.	16069 Feb 22 05:06	23° ∺ 28′00	0.57930 AU	retrograde	16070 Jan 23 23:50	7° ¥ 52′07	
inferior conj	16069 Feb 25 07:02	21° ∺ 14'18		evening set	16070 Jan 29 09:25	6°) 47′28	
minimum elong	16069 Feb 25 15:22	20° ¥ 59′10	3°38'42	min. Earth dist.	16070 Feb 03 17:53	4° ₭ 00'06	0.56047 AU
morning rise	16069 Mar 05 13:20	16° ¥ 48'39		inferior conj	16070 Feb 06 04:07	2° ∺ 28'21	
direct	16069 Mar 07 12:32	16°) ₹35'51		minimum elong	16070 Feb 06 13:15	2°) 13′55	5°02'28
asc. node	16069 Mar 09 05:41	16°) (46′00	10025102		16070 Feb 10 09:32	30°R≈	
morning max el	16069 Mar 15 21:35	20°) 43′28	18°35'03	morning rise	16070 Feb 14 19:27	28°≈23'51	
manuis	16069 Mar 22 21:41	0°Υ 16°Υ10'29		direct	16070 Feb 16 23:51	28°≈10'46	
morning set	16069 Mar 31 20:54	16° Y 19′28		aga m-J-	16070 Feb 23 01:52	0°) 0°) {41′23	
	16069 Apr 08 00:04	0°B		asc. node morning max el	16070 Feb 24 03:01 16070 Feb 26 19:21	2° H 57'01	19°31'28
superior conj	16069 Apr 09 20:46	3° 8 29'07	0°07'52	morning max er	16070 Mar 15 23:27	2 χ 3/01 0° Υ 47'09	1) 31 40
minimum elong	16069 Apr 09 21:17	3° 8 31'33	0°07'25	morning set	16070 Mar 15 14:03	0° γ	
behind sun begin	16069 Apr 09 15:01	3° 8 02'22	3 0, 23		100,014101 13 17.03	V 1	
behind sun end	16069 Apr 10 03:34	4° 8 00'41		superior conj	16070 Mar 24 01:18	16° Ƴ 55'44	0°38'23
u buil bilu	тт. тр. 10 05.54	. 500 11			21 01.10	100 17	

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16072 Feb 19 20:49

minimum elong

15°**¥**23'04 1°20'41

max. Earth dist.	16072 Feb 23 11:13		1.33824 AU	morning set	16073 Jan 27 06:24	14° ≈ 52'17	
	16072 Feb 26 23:30	0° Υ 1° Υ 52'18			16072 E-L 02 01.10	29° ≈ 42'24	1922116
evening rise	16072 Feb 27 22:26	6° Y 33'23		superior conj	16073 Feb 03 01:10		1°32'16
desc. node	16072 Mar 01 09:14	0° 1 33 23 0° と		minimum elong	16073 Feb 03 02:36	29°≈50'13 0°) €	1°32'36
avanina may al	16072 Mar 15 04:01 16072 Apr 02 17:37	23° 8 43'55	27°06'08	max. Earth dist.	16073 Feb 03 04:23 16073 Feb 05 09:46	0° π 4° ∺ 49'49	1.32385 AU
evening max el	16072 Apr 11 03:44	23 0 43 33	27 00 08	evening rise	16073 Feb 03 09.46 16073 Feb 10 13:23	4 X 4949 15° ¥ 37'08	1.32363 AU
retrograde	16072 Apr 16 04:30	0 H 1°∏14'48		desc. node	16073 Feb 16 15:54	26°\(\frac{13}{40}\)'31	
renograde	16072 Apr 10 04:30	30°R 8		desc. node	16073 Feb 18 01:29	20 γ (4031	
evening set	16072 Apr 20 20:04	28° 8 43'29			16073 Mar 09 21:02	0°8	
asc. node	16072 Apr 25 18:48	25° 8 55'35		evening max el	16073 Mar 16 06:13		27°33'41
min. Earth dist.	16072 Apr 26 16:01	24° 8 58'11	0.65528 AU	retrograde	16073 Mar 30 01:44	14° 8 29'38	27 33 41
inferior conj	16072 Apr 28 23:04	22° 8 21'55	0°58'04	evening set	16073 Apr 05 20:39	12° 8 05'41	
minimum elong	16072 Apr 28 21:37	22° 8 26'06	0°56'58	min. Earth dist.	16073 Apr 09 15:22	8° 8 49'57	0.63598 AU
morning rise	16072 May 05 02:32	16° 8 50'24	0 30 30	inferior conj	16073 Apr 12 09:56	5° 8 59'47	
direct	16072 May 07 22:09	16° 8 07'38		minimum elong	16073 Apr 12 10:06	_	0°05'11
morning max el	16072 May 14 05:28	19° 8 24'07	18°01'36	transit middle	16073 Apr 12 10:06	5° 8 59'22	0°05'11
	16072 May 22 08:40	0°II	10 0130	transit begin	16073 Apr 12 07:07	6° 8 07'03	0 00 11
desc. node	16072 May 28 10:18	9° П 36'56		transit end	16073 Apr 12 13:05	5° 8 51'43	
morning set	16072 Jun 01 14:17	16° Ⅲ 23'45		asc. node	16073 Apr 12 16:06	5° 8 43'59	
morning sec	16072 Jun 10 00:14	0°95		morning rise	16073 Apr 19 02:01	0° 8 43'25	
	100/2001 10 00.11	.		direct	16073 Apr 21 13:08	0°813'32	
superior conj	16072 Jun 16 04:14	9° 5 47'09	-1°57'41	morning max el	16073 Apr 27 22:58	3° 8 29'36	17°47'08
minimum elong	16072 Jun 15 20:12	9° © 15'32		morning set	16073 May 14 12:54	28° 8 32'18	1, 1, 00
max. Earth dist.	16072 Jun 19 05:06		1.45834 AU	desc. node	16073 May 15 07:13	29° 8 50'26	
	16072 Jun 29 04:06	0°N			16073 May 15 09:28	0°II	
evening rise	16072 Jul 02 07:03	4°Ω48'35			10075 1.14 10 05.20	~ ~	
greatest brilliancy	16072 Jul 15 06:19	24° Ω 29'49	-0.7m	superior conj	16073 May 27 07:55	19° Ⅱ 56'35	-1°27'05
8	16072 Jul 19 01:44	0° m)		minimum elong	16073 May 27 00:00	19° ∏ 24'21	1°26'52
asc. node	16072 Jul 22 18:01	4° m) 57'35		max. Earth dist.	16073 Jun 02 00:30	29° ∏ 04'49	1.44959 AU
evening max el	16072 Jul 27 02:19	9° m 57'26	19°26'09		16073 Jun 02 14:26	0ಂತಾ	
retrograde	16072 Aug 03 05:14	13° m 55'00		evening rise	16073 Jun 11 17:42	14°9512'29	
evening set	16072 Aug 06 21:16	12° m 37'02		<i>5</i>	16073 Jun 22 05:30	$0^{\circ}\Omega$	
inferior conj	16072 Aug 12 06:28	6° m 44'09	2°52'52	asc. node	16073 Jul 09 14:50	23° Ω 16'18	
minimum elong	16072 Aug 12 08:01	6° m) 39'01	2°52'16	evening max el	16073 Jul 10 04:48	23° Ω 51'48	20°26'16
min. Earth dist.	16072 Aug 13 13:48	5° m/00'58	0.67435 AU	retrograde	16073 Jul 18 04:18	28° Ω 25′04	
morning rise	16072 Aug 17 18:13	0° m/ 17'42		evening set	16073 Jul 22 06:50	26° Ω 49'11	
•	16072 Aug 18 02:30	30°RΩ		inferior conj	16073 Jul 27 12:54	20° Ω 44'21	3°06'10
direct	16072 Aug 23 16:11	27° Ω 44'22		minimum elong	16073 Jul 27 13:33	20° Ω 42'04	3°05'35
desc. node	16072 Aug 24 08:24	27° Ω 46′10		min. Earth dist.	16073 Jul 28 06:25	19° Ω 44'14	0.68478 AU
	16072 Aug 29 23:35	0° m)		morning rise	16073 Aug 01 19:58	14° Ω 21′02	
morning max el	16072 Sep 04 22:28	5° m 03'51	25°29'09	direct	16073 Aug 07 06:29	11° Ω 58'45	
	16072 Sep 24 04:04	0∘ ⊽		desc. node	16073 Aug 11 05:47	13° Ω 01′01	
morning set	16072 Oct 10 20:21	27° ≏ 30'36		morning max el	16073 Aug 18 09:28	18° Ω 37′29	24°02'54
	16072 Oct 12 05:10	0° M			16073 Aug 27 23:53	0° m	
max. Earth dist.	16072 Oct 14 09:57	4°ML05'11	1.36107 AU		16073 Sep 17 06:03	0∘ ⊽	
asc. node	16072 Oct 18 19:23	12°M32'35		morning set	16073 Sep 22 15:49	9° ჲ 01'26	
				max. Earth dist.	16073 Sep 26 09:05	15° ≏ 30'17	1.38458 AU
superior conj	16072 Oct 20 15:56	16° ™ 13'43	0°16'46				
minimum elong	16072 Oct 20 14:56	16° ™ 08'40	0°17'05	superior conj	16073 Oct 03 19:23	29° ჲ 09'45	
	16072 Oct 27 09:56	0° ∡ ¹		minimum elong	16073 Oct 03 20:31	29° ≏ 15'12	0°16'06
evening rise	16072 Oct 28 14:12	2° ₹ 25′08		behind sun begin	16073 Oct 03 19:57	29° ≏ 12'30	
	16072 Nov 13 17:30	0°ಕ		behind sun end	16073 Oct 03 21:05	29° ≙ 17'54	
evening max el	16072 Nov 15 07:57	1° る 43'04	20°01'54		16073 Oct 04 05:56	0° M	
desc. node	16072 Nov 20 05:42	5° る 28'28		asc. node	16073 Oct 05 16:07	2°M43'59	
retrograde	16072 Nov 25 18:13	6° る 54'59		evening rise	16073 Oct 12 15:20	16° ™ 24'10	
evening set	16072 Nov 27 21:12	6° ප 43'03			16073 Oct 19 18:54	0° ∡	
inferior conj	16072 Dec 06 15:54	2° る 44'52		evening max el	16073 Oct 29 00:56	13° ≯ 15'11	19°00'47
minimum elong	16072 Dec 06 05:54	3° ට 00'00	4°44'36	retrograde	16073 Nov 06 21:33	17° ∡ °42'59	
min. Earth dist.	16072 Dec 08 13:03	1°る36'42	0.54931 AU	desc. node	16073 Nov 07 02:53	17° ∡ °42'49	
	16072 Dec 11 09:57	30°₽ ✓		evening set	16073 Nov 08 18:50	17° ∡ ³31'39	
morning rise	16072 Dec 14 13:37	28° ∡ ³37'29		inferior conj	16073 Nov 17 03:19	13° ∡ 15'41 −	
direct	16072 Dec 19 12:13	27° ∡ ¹44'19		minimum elong	16073 Nov 16 19:33	13° ∡ 29′10	
	16072 Dec 27 06:59	0°⋜		min. Earth dist.	16073 Nov 19 23:54	11° √ 16'59	0.56312 AU
morning max el	16073 Jan 02 04:34	4° る 31'07	24°21'20	morning rise	16073 Nov 24 17:34	8° ∡ ³34'41	
asc. node	16073 Jan 14 18:55	20°る54'50		direct	16073 Nov 30 12:00	7°×16'39	2 (0 (2) 2)
	16073 Jan 19 22:42	0° ≈		morning max el	16073 Dec 14 15:07	14° ∡ °30'33	26~02'54

	16073 Dec 26 22:36	0°ಕ		1-	16074 Dec 19 13:14	28° √ 40'45	
				asc. node		28 x·4043	
asc. node	16074 Jan 01 16:07	9°₹31'08			16074 Dec 20 05:57		
morning set	16074 Jan 11 17:36	29° る 28'12		morning set	16074 Dec 27 02:12	13° る 52'57	
	16074 Jan 11 23:30	0° ≈					
				superior conj	16075 Jan 02 22:35	28° る 59'12	
superior conj	16074 Jan 18 11:10		1°37'40	minimum elong	16075 Jan 02 21:57	28° る 55'37	1°37'42
minimum elong	16074 Jan 18 11:35	14° ≈ 22'34	1°38'15	max. Earth dist.	16075 Jan 02 21:51	28° る 55'03	1.31009 AU
max. Earth dist.	16074 Jan 19 14:21	16° ≈ 51′21	1.31436 AU		16075 Jan 03 09:26	0° ≈	
evening rise	16074 Jan 25 12:29	29° ≈ 40'42		evening rise	16075 Jan 09 17:24	13° ≈ 57′26	
	16074 Jan 25 16:11	0° ∀			16075 Jan 17 17:07	0° ∀	
desc. node	16074 Feb 03 02:35	16°) 29′04		desc. node	16075 Jan 20 23:19	5°) 51′53	
	16074 Feb 11 03:56	0 ° Υ			16075 Feb 07 07:09	$0^{\circ}\mathbf{\Upsilon}$	
evening max el	16074 Feb 26 15:13	19° Ƴ 36'13	27°30'15	evening max el	16075 Feb 08 18:11	1° Y ′26′24	26°52'06
retrograde	16074 Mar 12 14:57	27° Y ′01′06		retrograde	16075 Feb 22 18:59	8° Υ 41'03	
evening set	16074 Mar 19 10:06	24° Υ 51'49		evening set	16075 Mar 01 07:33	6°Υ53'39	
min. Earth dist.	16074 Mar 23 04:52	21° Υ 59'15	0.61419 AU	min. Earth dist.	16075 Mar 05 08:12	4° Υ 14'13	0.59160 AU
		19° Υ 09'38				1° Υ 42'16	
inferior conj	16074 Mar 26 07:57			inferior conj	16075 Mar 08 13:25		
minimum elong	16074 Mar 26 10:51	19° Y ′03′02	1°20'35	minimum elong	16075 Mar 08 19:53	1° Υ 29'30	2°46'51
asc. node	16074 Mar 30 13:27	15° Y 42'34			16075 Mar 10 18:57	30°Ŗ ℋ	
morning rise	16074 Apr 02 14:52	14° Ƴ 11'22		morning rise	16075 Mar 16 11:49	27° ∺ 04'29	
direct	16074 Apr 04 18:55	13° Ƴ 51′02		asc. node	16075 Mar 17 10:50	26°) 53′59	
morning max el	16074 Apr 11 15:53	17° Ƴ 18'16	17°50'32	direct	16075 Mar 18 11:18	26° ¥ 50′07	
	16074 Apr 20 17:42	0° 8			16075 Mar 25 11:35	0 ° Υ	
morning set	16074 Apr 27 08:46	11° 8 39'38		morning max el	16075 Mar 26 04:42	0° Ƴ 40'07	18°12'55
desc. node	16074 May 02 04:01	20° 8 14'16		morning set	16075 Apr 10 20:08	25° Y ′29'14	
	16074 May 07 18:23	$\Pi^{\circ}0$		C	16075 Apr 13 05:43	0°8	
		-		desc. node	16075 Apr 19 00:45	10° 8 44'28	
superior conj	16074 May 08 10:43	1° Ⅱ 09'49	-0°49'41	dese. node	10070 11p1 15 00.10	10 0 20	
minimum elong	16074 May 08 06:13	0° П 50'35		superior conj	16075 Apr 20 12:02	13° 8 24'13	-0°12'11
max. Earth dist.	16074 May 15 15:57	13° I 11'01	1.43443 AU		•	13° 8 19'46	
	•		1.43443 AU	minimum elong	16075 Apr 20 11:03	_	0 12 29
evening rise	16074 May 22 10:33	23° Ⅱ 58'38		behind sun begin	16075 Apr 20 06:19	12° 8 58'26	
	16074 May 26 08:05	0°99		behind sun end	16075 Apr 20 15:47	13° 8 41'04	
	16074 Jun 16 08:07	$0^{\circ}\Omega$		max. Earth dist.	16075 Apr 28 02:23	26° 8 39'26	1.41453 AU
evening max el	16074 Jun 23 01:16		21°38'32		16075 Apr 30 02:18	Π °0	
asc. node	16074 Jun 26 11:43	10° Ω 46′01		evening rise	16075 May 02 21:23	4° Ⅱ 35'19	
retrograde	16074 Jul 02 02:55	13° Ω 02′10			16075 May 19 13:41	0 \circ ∞	
evening set	16074 Jul 06 16:32	11° Ω 09′08		evening max el	16075 Jun 05 17:20	21° © 39'32	22°58'22
inferior conj	16074 Jul 11 22:06	4° Ω 53'51	3°08'01	asc. node	16075 Jun 13 08:42	27°5911'21	
minimum elong	16074 Jul 11 21:48	4° Ω 54'53	3°07'21	retrograde	16075 Jun 15 23:35	27°540'55	
min. Earth dist.	16074 Jul 12 02:17	4° Ω 39'15	0.69041 AU	evening set	16075 Jun 21 00:40	25° © 32'35	
	16074 Jul 15 16:55	30°Rூ		inferior conj	16075 Jun 26 08:06	19° © 08'55	2°59'16
morning rise	16074 Jul 17 02:53	28°536'18		minimum elong	16075 Jun 26 06:55	19° © 13'01	2°58'24
direct	16074 Jul 22 01:11	26° © 29'47		min. Earth dist.	16075 Jun 25 23:16	19° © 39'35	0.69118 AU
desc. node	16074 Jul 29 03:07			morning rise			0.09118 AU
desc. node		29°545'50		Č	16075 Jul 01 13:04	12°958'57	
	16074 Jul 29 09:55	0°N		direct	16075 Jul 05 23:12	11°5510'57	
morning max el	16074 Jul 31 21:46	2° Ω 18'57	22°33'50	morning max el	16075 Jul 14 14:04	16° © 09'13	21°09'59
	16074 Aug 21 22:45	0° m)		desc. node	16075 Jul 16 00:21	17° © 38'24	
morning set	16074 Sep 03 12:32	19° m 34'03			16075 Jul 25 19:09	$0^{\circ}\Omega$	
max. Earth dist.	16074 Sep 08 09:28	27° m 38'21	1.40849 AU	morning set	16075 Aug 14 09:46	29° Ω 07'33	
	16074 Sep 09 18:51	0∘ ⊽			16075 Aug 14 23:10	0° m y	
				max. Earth dist.	16075 Aug 21 15:23	10° Mp 39'20	1.43006 AU
superior conj	16074 Sep 16 06:22	11° ≏ 21'09	-0°53'07				
minimum elong	16074 Sep 16 10:35	11° ≏ 40′06	0°52'22	superior conj	16075 Aug 28 20:38	22° m 39'01	-1°29'02
asc. node	16074 Sep 22 12:47	22° ₽ 52'00		minimum elong	16075 Aug 29 03:48	23°m/09'29	1°28'19
evening rise	16074 Sep 26 07:35	29° ♀ 59'07		8	16075 Sep 02 03:05	0∘ <u>⊽</u>	
evening rise	16074 Sep 26 07:46	0° ™		evening rise	16075 Sep 02 05:05 16075 Sep 09 10:53	° – 12° ≏ 59'41	
avaning may al	=		18°21'49	•	-	12° ⊆ 53'13	
evening max el	16074 Oct 12 05:20		10 41 49	asc. node	16075 Sep 09 09:26		
retrograde	16074 Oct 19 20:02	29°M25'54			16075 Sep 19 06:45	0°M	10000101
evening set	16074 Oct 21 20:28	29°M10'16		evening max el	16075 Sep 25 16:55	8°M28'45	18°03'21
desc. node	16074 Oct 25 00:08	27° M 49'25		retrograde	16075 Oct 02 11:55	11° M 58'24	
inferior conj	16074 Oct 29 12:20	24°M33'20	-1°27'08	evening set	16075 Oct 04 19:23	11°MJ34'15	
minimum elong	16074 Oct 29 09:00	24°M40'07	1°25'11	inferior conj	16075 Oct 11 18:01	6° ™ 36′50	0°02'41
min. Earth dist.	16074 Nov 01 18:15	21°M56'05	0.58283 AU	minimum elong	16075 Oct 11 18:07	6°M36'36	0°03'02
morning rise	16074 Nov 05 18:02	19°M15'20		transit middle	16075 Oct 11 18:07	6°M36'36	0°03'02
direct	16074 Nov 12 02:15	17°MJ30'13		transit begin	16075 Oct 11 14:53	6° M 44'12	
morning max el	16074 Nov 26 09:06	25°MJ06'14	27°17'45	transit end	16075 Oct 11 21:21	6°M28'59	
	16074 Nov 30 22:07	0° %		desc. node	16075 Oct 11 21:26	6°M28'48	
	100/4 NOV 30 7.7. U/						

min. Earth dist.	16075 Oct 14 21:40	3°ML40'16	0.60547 AU	min. Earth dist.	16076 Sep 26 10:57	16° ≏ 24'06	0.62819 AU
morning rise	16075 Oct 18 13:42	0°M48'06		desc. node	16076 Sep 27 18:45	15° ≏ 05'52	
	16075 Oct 19 22:50	30° ₹ Ω		morning rise	16076 Sep 30 02:02	13° ≏ 09'26	
direct	16075 Oct 25 05:10	28° ≙ 38'38		direct	16076 Oct 06 18:18	10° ≏ 42'32	
	16075 Oct 30 18:08	0° M .		morning max el	16076 Oct 20 18:28	18° ≏ 40'34	27°53'36
morning max el	16075 Nov 08 10:52	6°M29'55	27°55'13		16076 Oct 30 08:38	0° ™	
	16075 Nov 26 04:45	0° ∡ ¹			16076 Nov 18 02:08	0° ∡ ¹	
asc. node	16075 Dec 06 10:14	18° ∡ 14′23		asc. node	16076 Nov 22 07:09	8° ₹ 05'16	
morning set	16075 Dec 11 06:13	28° ∡ ¹01'10		morning set	16076 Nov 24 03:33	11° ∡ ¹48′05	
	16075 Dec 12 04:46	0°ಕ		max. Earth dist.	16076 Nov 29 06:50	22° ∡ 35′10	1.31835 AU
max. Earth dist.	16075 Dec 17 04:34	10°る52'09	1.31138 AU			_	
		_		superior conj	16076 Dec 01 18:05	27° ₹ '57'38	1°17'38
superior conj	16075 Dec 18 09:31	13° පි 33'17		minimum elong	16076 Dec 01 15:53	27° ∡ ¹45'34	1°18'06
minimum elong	16075 Dec 18 07:57	13° る 24'33	1°30'59		16076 Dec 02 16:20	0°ಕ	
evening rise	16075 Dec 25 02:03	28° පි 21'54		evening rise	16076 Dec 08 12:37	12° る 49'56	
	16075 Dec 25 20:17	0° ≈			16076 Dec 17 00:44	0° ≈	
desc. node	16076 Jan 07 20:07	24° ≈ 38'38		desc. node	16076 Dec 24 16:59	12° ≈ 36′21	
	16076 Jan 11 07:40	0° ∀		evening max el	16077 Jan 02 00:36	22° ≈ 36'31	24°04'19
evening max el	16076 Jan 21 13:07	12° ¥ 23'44	25°40'24	retrograde	16077 Jan 15 13:52	29° ≈ 20'12	
retrograde	16076 Feb 04 11:17	19°) 24'46		evening set	16077 Jan 20 12:06	28° ≈ 27'30	
evening set	16076 Feb 10 09:09	18° ∺ 04'20		min. Earth dist.	16077 Jan 26 12:13	25° ≈ 30'15	0.55425 AU
min. Earth dist.	16076 Feb 15 02:03	15° ∺ 24'27	0.57066 AU	inferior conj	16077 Jan 28 11:10	24° ≈ 19'48	-5°32'21
inferior conj	16076 Feb 17 22:51	13° ¥ 27′12	-4°19'15	minimum elong	16077 Jan 28 18:53	24° ≈ 08′12	5°30'32
minimum elong	16076 Feb 18 08:05	13° ¥ 11′26	4°16'12	morning rise	16077 Feb 06 03:24	20° ≈ 22′16	
morning rise	16076 Feb 26 09:58	9° 升 10'40		direct	16077 Feb 08 13:23	20° ≈ 07'20	
direct	16076 Feb 28 10:03	8° ∺ 58'24		asc. node	16077 Feb 18 05:31	24° ≈ 26′45	
asc. node	16076 Mar 03 08:12	9° ∺ 48'17		morning max el	16077 Feb 19 01:03	25° ≈ 12'22	20°02'26
morning max el	16076 Mar 08 09:08	13° ∺ 21'56	18°56'12		16077 Feb 23 04:49	0° ∀	
	16076 Mar 19 15:58	0° Υ		morning set	16077 Mar 08 23:26	24° ∺ 19'59	
morning set	16076 Mar 24 18:13	9° Ƴ 46'09			16077 Mar 11 17:56	$0^{\circ}\Upsilon$	
superior conj	16076 Apr 02 07:52	26° Y 27'33	0°21'30	superior conj	16077 Mar 16 17:54	10° Y ′08′20	0°49'29
minimum elong	16076 Apr 02 09:13	26° Ƴ 33'57	0°21'01	minimum elong	16077 Mar 16 20:19	10° Y 20′20	0°49'03
	16076 Apr 04 04:57	$_{0\circ}$ 8		max. Earth dist.	16077 Mar 22 15:52	21° Y 36'57	1.36931 AU
desc. node	16076 Apr 04 21:25	1° 8 16'40		desc. node	16077 Mar 22 18:05	21° Y 47'24	
max. Earth dist.	16076 Apr 09 09:09	9° 8 25'35	1.39204 AU	evening rise	16077 Mar 26 09:21	28° Y ′28'24	
evening rise	16076 Apr 13 05:31	16° 8 07'18			16077 Mar 27 05:50	0°B	
	16076 Apr 21 17:13	Π $^{\circ}0$			16077 Apr 15 01:15	Π $^{\circ}0$	
	16076 May 13 04:41	0ං ව		evening max el	16077 Apr 30 20:46	19° Ⅱ 28'49	25°35'40
evening max el	16076 May 18 07:14	5° © 34'41	24°19'47	retrograde	16077 May 13 05:47	26° Ⅲ 37'44	
retrograde	16076 May 29 16:53	12° © 14'52		asc. node	16077 May 17 02:52	25° Ⅱ 36′29	
asc. node	16076 May 30 05:45	12° © 13'39		evening set	16077 May 19 05:38	24° Ⅱ 08'19	
evening set	16076 Jun 04 05:35	9° 5 54'03		min. Earth dist.	16077 May 23 11:51	19° Ⅲ 29'31	0.67821 AU
min. Earth dist.	16076 Jun 08 19:10	4° © 38'25	0.68707 AU	inferior conj	16077 May 24 22:42	17° Ⅲ 37'48	2°09'57
inferior conj	16076 Jun 09 16:57	3° 5 24'58	2°40'04	minimum elong	16077 May 24 20:32	17° Ⅱ 44'47	2°08'39
minimum elong	16076 Jun 09 15:06	3° © 31'15	2°38'57	morning rise	16077 May 30 11:55	11° Ⅲ 47'11	
	16076 Jun 12 08:45	30° Ŗ Ⅱ		direct	16077 Jun 02 23:15	10° Ⅲ 38′05	
morning rise	16076 Jun 15 00:41	27° Ⅲ 24'01		morning max el	16077 Jun 09 18:50	14° Ⅱ 19'20	18°59'25
direct	16076 Jun 18 23:05	25° Ⅱ 55'40		desc. node	16077 Jun 18 18:36	25° Ⅲ 39'44	
	16076 Jun 26 08:52	0°€			16077 Jun 21 17:31	0 \circ \mathfrak{S}	
morning max el	16076 Jun 26 12:47	0° 5 09'33	19°57'21	greatest brilliancy	16077 Jun 22 22:45	1° 5 649'31	-0.7m
desc. node	16076 Jul 01 21:31	6°520'43		morning set	16077 Jul 02 23:09	17° © 10'30	
	16076 Jul 18 08:27	0 $^{\circ}$ Ω			16077 Jul 11 05:47	0 $^{\circ}\Omega$	
morning set	16076 Jul 23 15:17	8° Ω 03'12		max. Earth dist.	16077 Jul 16 22:08	8° Ω 51'15	1.45711 AU
max. Earth dist.	16076 Aug 03 04:07	24° Ω 28'30	1.44682 AU				
	16076 Aug 06 15:12	0° m)		superior conj	16077 Jul 19 05:27	12° Ω 27'54	
				minimum elong	16077 Jul 19 07:46	12° Ω 37′02	2°14'02
superior conj	16076 Aug 08 11:28	2° m 58'33	-1°58'19		16077 Jul 30 06:21	0° m	
minimum elong	16076 Aug 08 18:54	3° m 28'39	1°58'11	evening rise	16077 Aug 03 06:12	6° Mp 27′00	
evening rise	16076 Aug 21 20:07	25° m 13'10		asc. node	16077 Aug 13 02:47	22° m 17'30	
	16076 Aug 24 15:32	0∘ ⊽			16077 Aug 18 07:50	0∘ ত	
asc. node	16076 Aug 26 06:06	2° ≏ 43'34		evening max el	16077 Aug 22 21:58	5° ≙ 29'58	18°22'26
evening max el	16076 Sep 08 07:39	21° ≙ 50'53	18°03'54	retrograde	16077 Aug 29 07:38	8° ჲ 55'00	
retrograde	16076 Sep 14 17:14	25° ≙ 11'28		evening set	16077 Sep 01 08:22	8° ഫ 03'55	
evening set	16076 Sep 17 09:03	24° ≙ 35'13		inferior conj	16077 Sep 07 04:39	2° ჲ 32'07	2°04'42
inferior conj	16076 Sep 23 16:48	19° ≏ 19'24	1°13'13	minimum elong	16077 Sep 07 06:59	2° ≏ 25'14	2°04'00
minimum elong	16076 Sep 23 18:40	19° ≏ 14'24	1°12'44	-	16077 Sep 09 08:20	30°₽,₩)	
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min. Earth dist.	16077 Sep 09 09:55	29° m 55'25	0.64887 AU	minimum elong	16078 Aug 22 03:59	16° m 01'49	2°38'48
morning rise	16077 Sep 13 04:10	26° m 10'01		min. Earth dist.	16078 Aug 23 17:22	14° Mp 02'46	0.66618 AU
desc. node	16077 Sep 14 16:08	25° m 05'33		morning rise	16078 Aug 27 17:27	9° m 41'23	
direct	16077 Sep 19 15:56	23° m/34'06		desc. node	16078 Sep 01 13:32	7° mp 11'36	
	16077 Oct 01 16:45	0∘ ⊽		direct	16078 Sep 02 21:05	7° m 04'54	
morning max el	16077 Oct 03 05:18	1° ≏ 28'37	27°17'18	morning max el	16078 Sep 15 16:58	14° m 42'18	26°14'04
	16077 Oct 24 12:13	0° M			16078 Sep 28 05:55	0∘ ত	
morning set	16077 Nov 07 15:29	25° M $07'08$			16078 Oct 17 06:53	0° M	
asc. node	16077 Nov 09 04:01	28°M07'20		morning set	16078 Oct 21 14:51	7°M51'27	
	16077 Nov 10 02:30	0° ∡ ¹		max. Earth dist.	16078 Oct 25 09:53	15°M04'56	1.34878 AU
max. Earth dist.	16077 Nov 12 01:17	3° ∡ ′58′24	1.33095 AU	asc. node	16078 Oct 27 00:50	18°M16'15	
superior conj	16077 Nov 15 22:06	12° ∡ '05'52	0°58'45	superior conj	16078 Oct 30 19:07	25°M52'09	0°33'47
minimum elong	16077 Nov 15 19:46	11° ∡ ′53′22	0°59'03	minimum elong	16078 Oct 30 17:21	25°M43'05	0°34'02
evening rise	16077 Nov 22 23:15	27° ∡ 16′19			16078 Nov 01 19:01	0° ∡ ¹	
	16077 Nov 24 06:07	8°0		evening rise	16078 Nov 07 08:01	11° ∡ ³36'34	
desc. node	16077 Dec 11 13:57	29° る 27'03			16078 Nov 16 19:52	5°0	
	16077 Dec 12 01:20	0° ≈		evening max el	16078 Nov 26 05:14	12° る 48'27	20°47'05
evening max el	16077 Dec 14 10:38	2° ≈ 31'37	22°20'45	desc. node	16078 Nov 28 11:00	14° る 48'53	
retrograde	16077 Dec 27 04:22	8° ≈ 49'42		retrograde	16078 Dec 07 14:26	18° る 27'19	
evening set	16077 Dec 30 19:57	8° ≈ 20'24		evening set	16078 Dec 10 02:36	18° る 12'06	
min. Earth dist.	16078 Jan 07 17:57	4° ≈ 46′00	0.54507 AU	inferior conj	16078 Dec 18 21:44	14° る 19'45	
inferior conj	16078 Jan 08 06:46	4° ≈ 28′01		minimum elong	16078 Dec 18 13:22	14° පි 31'46	
minimum elong	16078 Jan 08 06:37	4° ≈ 28′15	6°01'22	min. Earth dist.	16078 Dec 19 23:25	13° る 42'51	0.54502 AU
morning rise	16078 Jan 16 18:19	0° ≈ 40'40		morning rise	16078 Dec 27 00:05	10° る 24'52	
direct	16078 Jan 20 00:48	0°≈16'41		direct	16078 Dec 31 08:17	9° ට 44'18	
morning max el	16078 Feb 01 01:57	6°≈05'41	21°31'40	morning max el	16079 Jan 13 14:30	16°る13'03	23°17'54
asc. node	16078 Feb 05 02:48	10° ≈ 34'19		asc. node	16079 Jan 23 00:05	27°る52'42	
	16078 Feb 16 22:40	0°) €			16079 Jan 24 08:46	0° ≈	
morning set	16078 Feb 21 08:58	9°) 02'19		morning set	16079 Feb 05 20:37	23°≈46'22	
	16070 E-L 20 14.10	240W 15154	1011100		16079 Feb 08 17:54	0° ∀	
superior conj	16078 Feb 28 14:19 16078 Feb 28 16:48	24°) 15'54 24°) 28'50	1°11'08 1°10'56	aumariar aami	16079 Feb 12 17:57	8°){ 41'03	1°26'21
minimum elong	16078 Mar 03 09:10	24 π 28 30 0° Υ	1 10 36	superior conj minimum elong	16079 Feb 12 17:57 16079 Feb 12 19:53	8° H 51'26	1°26'30
max. Earth dist.	16078 Mar 05 02:45	3° Υ 29'13	1.34854 AU	max. Earth dist.	16079 Feb 12 19:33 16079 Feb 15 20:39	15° X 18'52	1.33150 AU
evening rise	16078 Mar 09 05:31	11° Υ 29'13	1.54654 AU	evening rise	16079 Feb 20 14:30	25°\(\)\(\)\(\)\(\)\(\)\(\)	1.33130 AO
desc. node	16078 Mar 09 14:45	12° Υ 12'49		evening rise	16079 Feb 23 04:03	25 γ (00 54	
dese. Hode	16078 Mar 19 17:13	0°8		desc. node	16079 Feb 24 11:25	2° Υ 28'18	
	16078 Apr 10 07:06	0°II		desc. node	16079 Mar 13 04:44	0°8	
evening max el	16078 Apr 13 10:28	3° Ⅱ 15'46	26°38'38	evening max el	16079 Mar 26 23:46	16° 8 45'28	27°21'13
retrograde	16078 Apr 26 13:30	10° Ⅱ 42'10		retrograde	16079 Apr 09 15:07	24° 8 18'18	
evening set	16078 May 02 23:01	8° Ⅱ 09'26		evening set	16079 Apr 16 07:36	21° 8 48'55	
asc. node	16078 May 04 00:03	7° Ⅱ 15'09		min. Earth dist.	16079 Apr 20 03:37	18° 8 16'59	0.64741 AU
min. Earth dist.	16078 May 06 23:18	4° Ⅱ 05'41	0.66482 AU	asc. node	16079 Apr 20 21:19	17° 8 29'37	
inferior conj	16078 May 08 23:14	1° Ⅱ 42'44	1°28'01	inferior conj	16079 Apr 22 15:56	15° 8 32'51	0°33'03
minimum elong	16078 May 08 21:17	1° Ⅱ 48'34	1°26'45	minimum elong	16079 Apr 22 15:02	15° 8 35'20	0°32'14
	16078 May 10 10:18	30° ₹ 8		morning rise	16079 Apr 29 00:29	10° 8 07'44	
morning rise	16078 May 14 20:42	26° 8 03'58		direct	16079 May 01 16:14	9° 8 31'00	
direct	16078 May 17 21:46	25° 8 12'25		morning max el	16079 May 07 23:45	12° 8 46'01	17°53'20
morning max el	16078 May 24 07:16	28° 8 34'15	18°17'53		16079 May 20 04:23	Π °0	
	16078 May 25 16:17	Π \circ 0		desc. node	16079 May 23 12:35	5° Ⅱ 31'11	
desc. node	16078 Jun 05 15:38	15° Ⅱ 25'55		morning set	16079 May 25 11:23	8° Ⅱ 45'32	
morning set	16078 Jun 13 03:35	27° Ⅱ 18'59			16079 Jun 07 11:30	0	
	16078 Jun 14 20:04	0 \circ					
				superior conj	16079 Jun 08 07:30	1°9519'42	
superior conj	16078 Jun 28 14:29	21°540'25		minimum elong	16079 Jun 07 22:52	0°545'18	1°46'01
minimum elong	16078 Jun 28 09:07	21°519'32	2°09'31	max. Earth dist.	16079 Jun 12 14:22	8°506'20	1.45542 AU
max. Earth dist.	16078 Jun 29 18:32	23°529'46	1.46001 AU	evening rise	16079 Jun 24 05:55	26°508'33	
avanina rias	16078 Jul 03 22:45	0°Ω 16°Ω30'13		grantest builli	16079 Jun 26 18:33	0°Ω 17°Ω58'25	0.6
evening rise	16078 Jul 14 15:22	16° Ω 39'12		greatest brilliancy asc. node	16079 Jul 08 18:57 16079 Jul 17 20:19	17° Ω 58'25 0° m 10'05	-0.6m
greatest brilliancy	16078 Jul 23 05:36 16078 Jul 24 20:41	0° Т) 2° Т)29'28	-0.8m	asc. noue	16079 Jul 17 20:19 16079 Jul 17 16:55	0°110,10.03	
asc. node	16078 Jul 30 23:31	2 11/29/28 11°Mp/29'12	·0.0III	evening max el	16079 Jul 20 14:56		19°50'02
evening max el	16078 Aug 06 09:04	19° mg 19'07	18°58'11	retrograde	16079 Jul 28 02:01	7°M)24'16	17 30 02
retrograde	16078 Aug 13 03:31	23° mg 01'36		evening set	16079 Jul 31 22:20	5° m 58'52	
evening set	16078 Aug 16 13:42	21° m ₂ 53'52		inferior conj	16079 Aug 06 05:52	0° Mp 00'44	2°59'58
inferior conj	16078 Aug 22 02:01	16° mp 08'07	2°39'26	minimum elong	16079 Aug 06 07:03	29° Ω 56'42	
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	16079 Aug 06 06:04	30°R€		evening set	16080 Jul 15 08:08	20° Ω 14'32	
min. Earth dist.	16079 Aug 00 00:04	28°Ω35'06	0.67932 AU	inferior conj	16080 Jul 20 13:42	$14^{\circ}\Omega 05'17$	3°08'15
	16079 Aug 07 07:19	23°Ω34'56	0.07932 AU	minimum elong	16080 Jul 20 13:58	$14^{\circ} \Omega 03^{17}$ $14^{\circ} \Omega 04'24$	3°07'40
morning rise direct	16079 Aug 17 13:18 16079 Aug 17 08:30	$23^{\circ} \Omega 05'26$		min. Earth dist.	16080 Jul 21 01:36	$13^{\circ}\Omega 24'05$	0.68782 AU
desc. node	-	$21^{\circ}\Omega 22'52$			16080 Jul 25 19:30	$7^{\circ}\Omega 44'05$	0.06762 AU
	16079 Aug 19 10:55	$21^{\circ} 02252$ $28^{\circ} \Omega 09'55$	24952110	morning rise		5°Ω27'46	
morning max el	16079 Aug 29 03:59		24°53′18	direct	16080 Jul 31 00:58		
	16079 Aug 30 21:56	0° m)		desc. node	16080 Aug 05 08:15	7° Ω 18'41	22024141
	16079 Sep 21 22:43	0° ⊽		morning max el	16080 Aug 10 15:00	11° Ω 46′01	23°24'41
morning set	16079 Oct 03 21:42	19° £ 51'53	1.25055.433		16080 Aug 25 05:16	0° m)	
max. Earth dist.	16079 Oct 07 10:21	26° ₽ 12'36	1.37075 AU		16080 Sep 13 17:50	0∘ ⊽	
	16079 Oct 09 11:28	0°M,		morning set	16080 Sep 14 07:46	0° Ω 58'10	1 20 10 5 1 7 7
asc. node	16079 Oct 13 21:36	8°M27'52		max. Earth dist.	16080 Sep 18 08:55	7° ≙ 51'55	1.39485 AU
	16070 0-+ 14 06-01	0000 00150	0002111		1(000 0 2(02.50	210 0 47110	0921154
superior conj	16079 Oct 14 06:01	9°M08'58	0°03'11	superior conj	16080 Sep 26 02:59	21° Ω 47'10	
minimum elong	16079 Oct 14 05:47	9°M07'51	0°03'33	minimum elong	16080 Sep 26 05:21	21° £ 58'10	0°31′16
behind sun begin	16079 Oct 13 23:21	8°M36'22		asc. node	16080 Sep 29 18:19	28° ≏ 38'17	
behind sun end	16079 Oct 14 12:13	9°M39'25			16080 Sep 30 11:26	0°M	
evening rise	16079 Oct 22 12:39	25°M44'58		evening rise	16080 Oct 05 10:23	9° ™ 34'23	
	16079 Oct 24 15:32	0° ∡ ¹			16080 Oct 16 21:45	0° ∡ 7	
evening max el	16079 Nov 08 14:13	23° ₹ ′52'08	19°33'17	evening max el	16080 Oct 21 12:36		18°41'40
desc. node	16079 Nov 15 08:07	28° ⋌ 17'31 _		retrograde	16080 Oct 29 19:02	9° ∡ ¹55'54 –	
retrograde	16079 Nov 18 08:02	28° ∡ ¹44'32		evening set	16080 Oct 31 17:07	9° х 43′10	
evening set	16079 Nov 20 06:58	28° ₹ 33'38		desc. node	16080 Nov 01 05:20	9° ∡ ³35'42	
inferior conj	16079 Nov 28 22:38	24° ₹ ¹29'10	-4°08'51	inferior conj	16080 Nov 08 18:55	5° ∡ 18'34	-2°25'34
minimum elong	16079 Nov 28 12:58	24° ∡ ⁴44'33	4°05'01	minimum elong	16080 Nov 08 13:01	5° ∡ ′29'30	2°22'35
min. Earth dist.	16079 Dec 01 07:42	22° ∡ ′58′16	0.55422 AU	min. Earth dist.	16080 Nov 11 21:15	3° ∡ 01'32	0.57094 AU
morning rise	16079 Dec 06 17:05	20° ∡ '08'27		morning rise	16080 Nov 16 05:45	0° ∡ ¹21'59	
direct	16079 Dec 12 00:54	19° ∡ 04'54			16080 Nov 17 01:10	30°RM₊	
morning max el	16079 Dec 25 23:01	26° ₰ 04'49	25°06'41	direct	16080 Nov 22 07:09	28°M52'14	
	16079 Dec 29 16:10	0°ರ			16080 Nov 27 14:46	0° ∡ ″	
asc. node	16080 Jan 09 21:19	16° පි 05'04		morning max el	16080 Dec 06 12:03	6° ∡ 15'50	26°38'53
	16080 Jan 17 07:45	0° ≈			16080 Dec 23 23:37	8°0	
morning set	16080 Jan 21 08:30	8° ≈ 27'07		asc. node	16080 Dec 26 18:29	4° る 56'50	
				morning set	16081 Jan 04 18:48	22° る 58'43	
superior conj	16080 Jan 28 02:17	23°≈16'44	1°35'18			00	
	10000 3411 20 02.17	23 ~ 10 + +	1 33 16		16081 Jan 07 23:50	0° ≈	
minimum elong	16080 Jan 28 03:18	23°≈22'21	1°35'45		16081 Jan 07 23:50	0°≈	
				superior conj	16081 Jan 07 23:50 16081 Jan 11 13:06	0°≈ 7°≈55'41	1°38'07
minimum elong	16080 Jan 28 03:18	23° ≈ 22'21	1°35'45	superior conj minimum elong			1°38'07 1°38'46
minimum elong	16080 Jan 28 03:18 16080 Jan 29 21:56	23°≈22'21 27°≈16'30	1°35'45		16081 Jan 11 13:06	7° ≈ 55'41	
minimum elong max. Earth dist.	16080 Jan 28 03:18 16080 Jan 29 21:56 16080 Jan 31 04:00	23°≈22'21 27°≈16'30 0°¥	1°35'45	minimum elong	16081 Jan 11 13:06 16081 Jan 11 13:04	7°≈55'41 7°≈55'29	1°38'46
minimum elong max. Earth dist.	16080 Jan 28 03:18 16080 Jan 29 21:56 16080 Jan 31 04:00 16080 Feb 04 09:17	23°≈22'21 27°≈16'30 0°¥ 8°¥55'09	1°35'45	minimum elong max. Earth dist.	16081 Jan 11 13:06 16081 Jan 11 13:04 16081 Jan 12 04:13	7°≈55'41 7°≈55'29 9°≈20'11	1°38'46
minimum elong max. Earth dist.	16080 Jan 28 03:18 16080 Jan 29 21:56 16080 Jan 31 04:00 16080 Feb 04 09:17 16080 Feb 11 08:06	23°≈22'21 27°≈16'30 0° ₩ 8° ₩ 55'09 22° ₩ 29'00	1°35'45 1.31916 AU	minimum elong max. Earth dist.	16081 Jan 11 13:06 16081 Jan 11 13:04 16081 Jan 12 04:13 16081 Jan 18 11:08	7°≈55'41 7°≈55'29 9°≈20'11 23°≈05'15	1°38'46
minimum elong max. Earth dist. evening rise desc. node	16080 Jan 28 03:18 16080 Jan 29 21:56 16080 Jan 31 04:00 16080 Feb 04 09:17 16080 Feb 11 08:06 16080 Feb 15 13:41	23°≈22'21 27°≈16'30 0° ₩ 8° ₩ 55'09 22° ₩ 29'00 0° Υ	1°35'45 1.31916 AU	minimum elong max. Earth dist. evening rise	16081 Jan 11 13:06 16081 Jan 11 13:04 16081 Jan 12 04:13 16081 Jan 18 11:08 16081 Jan 21 19:28	7°≈55'41 7°≈55'29 9°≈20'11 23°≈05'15 0°¥	1°38'46
minimum elong max. Earth dist. evening rise desc. node evening max el	16080 Jan 28 03:18 16080 Jan 29 21:56 16080 Jan 31 04:00 16080 Feb 04 09:17 16080 Feb 11 08:06 16080 Feb 15 13:41 16080 Mar 08 11:11	23°≈22'21 27°≈16'30 0° ₩ 8° ₩55'09 22° ₩29'00 0° Ψ' 29° Ψ'46'45 0° &	1°35'45 1.31916 AU	minimum elong max. Earth dist. evening rise desc. node	16081 Jan 11 13:06 16081 Jan 11 13:04 16081 Jan 12 04:13 16081 Jan 18 11:08 16081 Jan 21 19:28 16081 Jan 28 04:48	7°≈55'41 7°≈55'29 9°≈20'11 23°≈05'15 0°¥ 12°¥07'51	1°38'46
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	16080 Jan 28 03:18 16080 Jan 29 21:56 16080 Jan 31 04:00 16080 Feb 04 09:17 16080 Feb 11 08:06 16080 Feb 15 13:41 16080 Mar 08 11:11 16080 Mar 08 16:45 16080 Mar 22 09:24	23°≈22'21 27°≈16'30 0° ₩ 8° ₩55'09 22° ₩29'00 0° Ψ 29° Ψ46'45 0° ℧ 7° ℧16'15	1°35'45 1.31916 AU	minimum elong max. Earth dist. evening rise desc. node evening max el	16081 Jan 11 13:06 16081 Jan 11 13:04 16081 Jan 12 04:13 16081 Jan 18 11:08 16081 Jan 21 19:28 16081 Jan 28 04:48 16081 Feb 08 11:29 16081 Feb 18 18:10	7°≈55'41 7°≈55'29 9°≈20'11 23°≈05'15 0° \(\) 12° \(\) 07'51 0° \(\) 12° \(\)06'15	1°38'46 1.31191 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	16080 Jan 28 03:18 16080 Jan 29 21:56 16080 Jan 31 04:00 16080 Feb 04 09:17 16080 Feb 11 08:06 16080 Feb 15 13:41 16080 Mar 08 11:11 16080 Mar 08 16:45 16080 Mar 22 09:24 16080 Mar 29 04:52	23°≈22'21 27°≈16'30 0° ₩ 8° ₩55'09 22° ₩29'00 0° Ψ' 29° Ψ46'45 0° ℧ 7° ℧16'15 4° ℧57'47	1°35'45 1.31916 AU 27°36'20	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	16081 Jan 11 13:06 16081 Jan 11 13:04 16081 Jan 12 04:13 16081 Jan 18 11:08 16081 Jan 21 19:28 16081 Jan 28 04:48 16081 Feb 08 11:29	7°≈55'41 7°≈55'29 9°≈20'11 23°≈05'15 0° H 12° H 07'51 0° Y	1°38'46 1.31191 AU
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minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	16080 Jan 28 03:18 16080 Jan 29 21:56 16080 Jan 31 04:00 16080 Feb 04 09:17 16080 Feb 11 08:06 16080 Feb 15 13:41 16080 Mar 08 11:11 16080 Mar 08 16:45 16080 Mar 22 09:24 16080 Mar 29 04:52 16080 Apr 01 23:07 16080 Apr 03 21:39	23°≈22'21 27°≈16'30 0° ₩ 8° ₩55'09 22° ₩29'00 0° Ψ 29° ¥46'45 0° ₩ 7° ₩16'15 4° ₩55'47 1° ₩52'36 30° ₹ Ψ	1°35'45 1.31916 AU 27°36'20 0.62692 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	16081 Jan 11 13:06 16081 Jan 12 04:13 16081 Jan 18 11:08 16081 Jan 21 19:28 16081 Jan 28 04:48 16081 Feb 08 11:29 16081 Feb 18 18:10 16081 Mar 04 18:43 16081 Mar 11 11:53	7°≈55'41 7°≈55'29 9°≈20'11 23°≈05'15 0°¥ 12°¥07'51 0°Υ 12°Υ06'15 19°Υ26'24 17°Υ26'00	1°38'46 1.31191 AU 27°18'24 0.60461 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	16080 Jan 28 03:18 16080 Jan 29 21:56 16080 Jan 31 04:00 16080 Feb 04 09:17 16080 Feb 11 08:06 16080 Feb 15 13:41 16080 Mar 08 11:11 16080 Mar 08 16:45 16080 Mar 22 09:24 16080 Mar 29 04:52 16080 Apr 01 23:07 16080 Apr 03 21:39 16080 Apr 04 21:48	23°≈22'21 27°≈16'30 0° ₩ 8° ₩55'09 22° ₩29'00 0° Ψ 29° Ψ46'45 0° ℧ 7° ℧16'15 4° ℧57'47 1° ℧52'36 30° ℝ Ψ 29° Ψ'00'36	1°35'45 1.31916 AU 27°36'20 0.62692 AU -0°35'47	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	16081 Jan 11 13:06 16081 Jan 12 04:13 16081 Jan 18 11:08 16081 Jan 21 19:28 16081 Jan 28 04:48 16081 Feb 08 11:29 16081 Feb 18 18:10 16081 Mar 04 18:43 16081 Mar 11 11:53 16081 Mar 15 08:26 16081 Mar 18 13:15	7°≈55'41 7°≈55'29 9°≈20'11 23°≈05'15 0° ¥ 12° ¥07'51 0° Ŷ 12° ¥06'15 19° ¥26'24 17° ¥26'00 14° ¥40'10	1°38'46 1.31191 AU 27°18'24 0.60461 AU -1°57'45
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	16080 Jan 28 03:18 16080 Jan 29 21:56 16080 Jan 31 04:00 16080 Feb 04 09:17 16080 Feb 11 08:06 16080 Feb 15 13:41 16080 Mar 08 11:11 16080 Mar 08 16:45 16080 Mar 22 09:24 16080 Mar 29 04:52 16080 Apr 01 23:07 16080 Apr 03 21:39 16080 Apr 04 21:48 16080 Apr 04 22:59	23°≈22'21 27°≈16'30 0° ₩ 8° ₩55'09 22° ₩29'00 0° Ψ 29° ¥46'45 0° ₩ 7° ₩16'15 4° ₩55'47 1° ₩52'36 30° ₹ Ψ	1°35'45 1.31916 AU 27°36'20 0.62692 AU -0°35'47	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	16081 Jan 11 13:06 16081 Jan 12 04:13 16081 Jan 18 11:08 16081 Jan 21 19:28 16081 Jan 28 04:48 16081 Feb 08 11:29 16081 Feb 18 18:10 16081 Mar 04 18:43 16081 Mar 11 11:53 16081 Mar 15 08:26 16081 Mar 18 13:15 16081 Mar 18 17:37	7°≈55'41 7°≈55'29 9°≈20'11 23°≈05'15 0°¥ 12°¥07'51 0°Y 12°Y06'15 19°Y26'00 14°Y40'10 11°Y56'16	1°38'46 1.31191 AU 27°18'24 0.60461 AU -1°57'45
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	16080 Jan 28 03:18 16080 Jan 29 21:56 16080 Jan 31 04:00 16080 Feb 04 09:17 16080 Feb 11 08:06 16080 Feb 15 13:41 16080 Mar 08 11:11 16080 Mar 08 16:45 16080 Mar 22 09:24 16080 Mar 29 04:52 16080 Apr 01 23:07 16080 Apr 03 21:39 16080 Apr 04 21:48 16080 Apr 04 22:59 16080 Apr 06 18:36	23°≈22'21 27°≈16'30 0° ₩ 8° ₩ 55'09 22° ₩ 29'00 0° Ψ' 29° Ψ 46'45 0° ℧ 7° ℧ 16'15 4° ℧ 57'47 1° ℧ 52'36 30° ℝ Ψ' 29° Ψ 00'36 28° Ψ 57'42 27° Ψ 14'17	1°35'45 1.31916 AU 27°36'20 0.62692 AU -0°35'47	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	16081 Jan 11 13:06 16081 Jan 12 04:13 16081 Jan 18 11:08 16081 Jan 21 19:28 16081 Jan 28 04:48 16081 Feb 08 11:29 16081 Feb 18 18:10 16081 Mar 04 18:43 16081 Mar 11 11:53 16081 Mar 15 08:26 16081 Mar 18 13:15 16081 Mar 18 17:37 16081 Mar 24 15:56	7°≈55'41 7°≈55'29 9°≈20'11 23°≈05'15 0°¥ 12°¥07'51 0°Y 12°Y06'15 19°Y26'24 17°Y26'00 14°Y40'10 11°Y56'16 11°Y46'53 7°Y37'45	1°38'46 1.31191 AU 27°18'24 0.60461 AU -1°57'45
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	16080 Jan 28 03:18 16080 Jan 29 21:56 16080 Jan 31 04:00 16080 Feb 04 09:17 16080 Feb 11 08:06 16080 Feb 15 13:41 16080 Mar 08 11:11 16080 Mar 08 16:45 16080 Mar 22 09:24 16080 Mar 29 04:52 16080 Apr 01 23:07 16080 Apr 03 21:39 16080 Apr 04 21:48 16080 Apr 04 22:59 16080 Apr 06 18:36 16080 Apr 11 19:59	23°≈22'21 27°≈16'30 0° ₩ 8° ₩ 55'09 22° ₩ 29'00 0° Ψ 29° Ψ 46'45 0° ℧ 7° ℧ 16'15 4° ℧ 57'47 1° ℧ 52'36 30° ℟ Ψ 29° Ψ 00'36 28° Ψ 57'42 27° Ψ 14'17 23° Ψ 51'28	1°35'45 1.31916 AU 27°36'20 0.62692 AU -0°35'47	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	16081 Jan 11 13:04 16081 Jan 12 04:13 16081 Jan 18 11:08 16081 Jan 21 19:28 16081 Jan 28 04:48 16081 Feb 08 11:29 16081 Feb 18 18:10 16081 Mar 04 18:43 16081 Mar 11 11:53 16081 Mar 15 08:26 16081 Mar 18 13:15 16081 Mar 18 17:37 16081 Mar 24 15:56 16081 Mar 26 02:47	7°≈55'41 7°≈55'29 9°≈20'11 23°≈05'15 0° ¥ 12° ¥07'51 0° Y 12° Y06'15 19° Y26'24 17° Y26'00 14° Y40'10 11° Y56'16 11° Y46'53 7° Y37'45 7° Y06'01	1°38'46 1.31191 AU 27°18'24 0.60461 AU -1°57'45
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	16080 Jan 28 03:18 16080 Jan 29 21:56 16080 Jan 31 04:00 16080 Feb 04 09:17 16080 Feb 11 08:06 16080 Feb 15 13:41 16080 Mar 08 11:11 16080 Mar 08 16:45 16080 Mar 22 09:24 16080 Mar 29 04:52 16080 Apr 01 23:07 16080 Apr 03 21:39 16080 Apr 04 22:59 16080 Apr 06 18:36 16080 Apr 11 19:59 16080 Apr 11 19:59	23°≈22'21 27°≈16'30 0° ₩ 8° ₩ 55'09 22° ₩ 29'00 0° Ψ 29° Ψ 46'45 0° ℧ 7° ℧ 16'15 4° ℧ 57'47 1° ℧ 52'36 30° ℝ Ψ 29° Ψ 00'36 28° Ψ 57'42 27° Ψ 14'17 23° Ψ 51'28 23° Ψ 26'10	1°35'45 1.31916 AU 27°36'20 0.62692 AU -0°35'47 0°35'35	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	16081 Jan 11 13:04 16081 Jan 12 04:13 16081 Jan 18 11:08 16081 Jan 21 19:28 16081 Jan 28 04:48 16081 Jan 28 04:48 16081 Feb 08 11:29 16081 Feb 18 18:10 16081 Mar 04 18:43 16081 Mar 11 11:53 16081 Mar 15 08:26 16081 Mar 18 13:15 16081 Mar 18 17:37 16081 Mar 24 15:56 16081 Mar 26 02:47 16081 Mar 28 04:31	7°≈55'41 7°≈55'29 9°≈20'11 23°≈05'15 0° ₩ 12° ₩07'51 0° Ψ 12° Ψ06'15 19° Ψ26'24 17° Ψ26'00 14° Ψ40'10 11° Ψ56'16 11° Ψ46'53 7° Ψ37'45 7° Ψ06'01 6° Ψ48'36	1°38'46 1.31191 AU 27°18'24 0.60461 AU -1°57'45 1°56'05
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	16080 Jan 28 03:18 16080 Jan 29 21:56 16080 Jan 31 04:00 16080 Feb 04 09:17 16080 Feb 11 08:06 16080 Feb 15 13:41 16080 Mar 08 11:11 16080 Mar 08 16:45 16080 Mar 22 09:24 16080 Mar 29 04:52 16080 Apr 01 23:07 16080 Apr 03 21:39 16080 Apr 04 22:59 16080 Apr 04 22:59 16080 Apr 06 18:36 16080 Apr 11 19:59 16080 Apr 14 03:45 16080 Apr 20 17:24	23°≈22'21 27°≈16'30 0° ₩ 8° ₩ 55'09 22° ₩ 29'00 0° Ψ 29° Ψ 46'45 0° ℧ 7° ℧ 16'15 4° ℧ 57'47 1° ℧ 52'36 30° ℝ Ψ 29° Ψ 00'36 28° Ψ 57'42 27° Ψ 14'17 23° Ψ 26'10 26° Ψ 45'58	1°35'45 1.31916 AU 27°36'20 0.62692 AU -0°35'47	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	16081 Jan 11 13:04 16081 Jan 12 04:13 16081 Jan 18 11:08 16081 Jan 21 19:28 16081 Jan 28 04:48 16081 Feb 08 11:29 16081 Feb 18 18:10 16081 Mar 04 18:43 16081 Mar 11 11:53 16081 Mar 15 08:26 16081 Mar 18 13:15 16081 Mar 18 17:37 16081 Mar 24 15:56 16081 Mar 26 02:47 16081 Mar 28 04:31 16081 Mar 28 04:31	7°≈55'41 7°≈55'29 9°≈20'11 23°≈05'15 0° € 12° € € € € € € € € € € € € € € € € € € €	1°38'46 1.31191 AU 27°18'24 0.60461 AU -1°57'45 1°56'05
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minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	16080 Jan 28 03:18 16080 Jan 29 21:56 16080 Jan 31 04:00 16080 Feb 04 09:17 16080 Feb 11 08:06 16080 Feb 15 13:41 16080 Mar 08 11:11 16080 Mar 08 16:45 16080 Mar 22 09:24 16080 Mar 29 04:52 16080 Apr 01 23:07 16080 Apr 03 21:39 16080 Apr 04 22:59 16080 Apr 04 22:59 16080 Apr 06 18:36 16080 Apr 11 19:59 16080 Apr 20 17:24 16080 Apr 20 17:24 16080 Apr 23 13:52 16080 May 06 19:47 16080 May 09 09:27 16080 May 11 19:19 16080 May 18 20:42 16080 May 18 14:03 16080 May 30 02:17 16080 May 30 02:17 16080 Jun 02 17:15 16080 Jun 02 17:15	23°≈22'21 27°≈16'30 0° ₩ 8° ₩ 55'09 22° ₩ 29'00 0° Ψ 29° Ψ 46'45 0° ℧ 7° ℧ 16'15 4° ℧ 57'47 1° ℧ 52'36 30° ℝ Ψ 29° Ψ 00'36 28° Ψ 55'42 27° Ψ 14'17 23° Ψ 26'10 26° Ψ 45'58 0° ℧ 21° ℧ 21'36 25° ℧ 49'53 0° Ⅱ 11° Ⅲ 55'47 11° Ⅲ 28'12 22° Ⅲ 27'35 0° 郖 5° ℑ 37'18 0° Ω	1°35'45 1.31916 AU 27°36'20 0.62692 AU -0°35'47 0°35'35 17°46'15 -1°11'35 1°11'23 1.44389 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	16081 Jan 11 13:06 16081 Jan 12 04:13 16081 Jan 12 04:13 16081 Jan 18 11:08 16081 Jan 21 19:28 16081 Jan 28 04:48 16081 Feb 08 11:29 16081 Feb 18 18:10 16081 Mar 04 18:43 16081 Mar 11 11:53 16081 Mar 15 08:26 16081 Mar 18 17:37 16081 Mar 24 15:56 16081 Mar 26 02:47 16081 Mar 28 04:31 16081 Apr 04 08:57 16081 Apr 17 07:25 16081 Apr 19 22:55 16081 Apr 26 06:13 16081 Apr 30 09:22 16081 May 07 21:31 16081 May 07 21:31 16081 May 13 16:53 16081 May 22 23:34 16081 May 22 23:34	7°≈55'41 7°≈55'29 9°≈20'11 23°≈05'15 0° € 12° € € € € € € € € € € € € € € € € € € €	1°38'46 1.31191 AU 27°18'24 0.60461 AU -1°57'45 1°56'05 17°57'31 -0°33'30 0°33'35 1.42652 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise evening max el	16080 Jan 28 03:18 16080 Jan 29 21:56 16080 Jan 31 04:00 16080 Feb 04 09:17 16080 Feb 11 08:06 16080 Feb 15 13:41 16080 Mar 08 11:11 16080 Mar 08 16:45 16080 Mar 22 09:24 16080 Mar 29 04:52 16080 Apr 01 23:07 16080 Apr 03 21:39 16080 Apr 04 22:59 16080 Apr 04 22:59 16080 Apr 04 11 19:59 16080 Apr 11 19:59 16080 Apr 20 17:24 16080 Apr 20 17:24 16080 Apr 20 17:24 16080 May 11 19:19 16080 May 18 20:42 16080 May 18 14:03 16080 May 30 02:17 16080 May 30 02:17 16080 Jun 02 17:15 16080 Jun 19 03:01 16080 Jul 02 14:50	23°≈22'21 27°≈16'30 0° ₩ 8° ₩ 55'09 22° ₩ 29'00 0° Ψ 29° Ψ 46'45 0° ℧ 7° ℧ 16'15 4° ℧ 57'47 1° ℧ 52'36 30° ℝ Ψ 29° Ψ 00'36 28° Ψ 57'42 27° Ψ 14'17 23° Ψ 26'10 26° Ψ 45'58 0° ℧ 21° ℧ 21'36 25° ℧ 49'53 0° Ⅱ 11° Ⅲ 55'47 11° Ⅲ 28'12 22° Ⅲ 27'35 0° 郖 5° ℑ 37'18 0° Ω 17° Ω 06'42	1°35'45 1.31916 AU 27°36'20 0.62692 AU -0°35'47 0°35'35 17°46'15	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise evening max el	16081 Jan 11 13:06 16081 Jan 12 04:13 16081 Jan 18 11:08 16081 Jan 21 19:28 16081 Jan 28 04:48 16081 Jan 28 04:48 16081 Feb 08 11:29 16081 Feb 18 18:10 16081 Mar 04 18:43 16081 Mar 11 11:53 16081 Mar 15 08:26 16081 Mar 18 13:15 16081 Mar 24 15:56 16081 Mar 26 02:47 16081 Mar 28 04:31 16081 Apr 04 08:57 16081 Apr 17 07:25 16081 Apr 19 22:55 16081 Apr 26 06:13 16081 Apr 30 09:22 16081 Apr 30 09:22 16081 Apr 30 09:22 16081 May 04 02:39 16081 May 07 21:31 16081 May 13 16:53 16081 May 12 23:34 16081 May 14 09:25 16081 Jun 14 09:25 16081 Jun 15 09:19	7°≈55'41 7°≈55'29 9°≈20'11 23°≈05'15 0° € 12° € € € € € € € € € € € € € € € € € € €	1°38'46 1.31191 AU 27°18'24 0.60461 AU -1°57'45 1°56'05 17°57'31 -0°33'30 0°33'35 1.42652 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	16080 Jan 28 03:18 16080 Jan 29 21:56 16080 Jan 31 04:00 16080 Feb 04 09:17 16080 Feb 11 08:06 16080 Feb 15 13:41 16080 Mar 08 11:11 16080 Mar 08 16:45 16080 Mar 22 09:24 16080 Mar 29 04:52 16080 Apr 01 23:07 16080 Apr 03 21:39 16080 Apr 04 22:59 16080 Apr 04 22:59 16080 Apr 06 18:36 16080 Apr 11 19:59 16080 Apr 20 17:24 16080 Apr 20 17:24 16080 Apr 23 13:52 16080 May 06 19:47 16080 May 09 09:27 16080 May 11 19:19 16080 May 18 20:42 16080 May 18 14:03 16080 May 30 02:17 16080 May 30 02:17 16080 Jun 02 17:15 16080 Jun 02 17:15	23°≈22'21 27°≈16'30 0° ₩ 8° ₩ 55'09 22° ₩ 29'00 0° Ψ 29° Ψ 46'45 0° ℧ 7° ℧ 16'15 4° ℧ 57'47 1° ℧ 52'36 30° ℝ Ψ 29° Ψ 00'36 28° Ψ 55'42 27° Ψ 14'17 23° Ψ 26'10 26° Ψ 45'58 0° ℧ 21° ℧ 21'36 25° ℧ 49'53 0° Ⅱ 11° Ⅲ 55'47 11° Ⅲ 28'12 22° Ⅲ 27'35 0° 郖 5° ℑ 37'18 0° Ω	1°35'45 1.31916 AU 27°36'20 0.62692 AU -0°35'47 0°35'35 17°46'15 -1°11'35 1°11'23 1.44389 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	16081 Jan 11 13:06 16081 Jan 12 04:13 16081 Jan 12 04:13 16081 Jan 18 11:08 16081 Jan 21 19:28 16081 Jan 28 04:48 16081 Feb 08 11:29 16081 Feb 18 18:10 16081 Mar 04 18:43 16081 Mar 11 11:53 16081 Mar 15 08:26 16081 Mar 18 17:37 16081 Mar 24 15:56 16081 Mar 26 02:47 16081 Mar 28 04:31 16081 Apr 04 08:57 16081 Apr 17 07:25 16081 Apr 19 22:55 16081 Apr 26 06:13 16081 Apr 30 09:22 16081 May 07 21:31 16081 May 07 21:31 16081 May 13 16:53 16081 May 22 23:34 16081 May 22 23:34	7°≈55'41 7°≈55'29 9°≈20'11 23°≈05'15 0° € 12° € € € € € € € € € € € € € € € € € € €	1°38'46 1.31191 AU 27°18'24 0.60461 AU -1°57'45 1°56'05 17°57'31 -0°33'30 0°33'35 1.42652 AU

16083 Apr 19 08:47

16083 May 11 13:32

evening max el

28°II50'42 24°53'04

16082 Apr 26 12:31

16082 May 16 14:50

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	16083 May 12 18:25	0°©		evening max el	16084 Apr 23 03:09	12° ∏ 42'51	26°04'29
retrograde	16083 May 23 09:53	5° © 45'14		retrograde	16084 May 05 20:52	20° Ⅱ 01'09	20 042)
asc. node	16083 May 25 08:08	5°929'39		asc. node	16084 May 11 05:16	18° I 107'55	
evening set	16083 May 29 03:26	3°9519'59		evening set	16084 May 12 00:54	10 Ⅱ 07 33	
e venning see	16083 Jun 01 06:25	30°R Ⅱ		min. Earth dist.	16084 May 16 04:27		0.67302 AU
min. Earth dist.	16083 Jun 02 13:35	28° Ⅱ 20'11	0.68387 AU	inferior conj	16084 May 17 20:50		1°53'42
inferior conj	16083 Jun 03 17:00	26° II 49'27	2°28'41	minimum elong	16084 May 17 18:41	11° II 06'38	1°52'23
minimum elong	16083 Jun 03 14:57	26° I I56'14	2°27'28	morning rise	16084 May 23 13:12	5° Ⅱ 13'52	1 32 23
morning rise	16083 Jun 09 02:45	20° I 52'45	2 27 20	direct	16084 May 26 20:00	4° Ⅱ 12'33	
direct	16083 Jun 12 20:14	19° Ⅲ 32'57		morning max el	16084 Jun 02 10:25	7° Ⅱ 44'16	18°39'37
morning max el	16083 Jun 20 01:29	23° II 31'42	19°30'44	desc. node	16084 Jun 12 20:56	21° I I22'08	10 37 37
morning max or	16083 Jun 25 14:41	0°95	17 30 11	desc. Hode	16084 Jun 18 12:23	0°95	
desc. node	16083 Jun 26 23:52	1°950'27		morning set	16084 Jun 24 02:05	8°9540'51	
greatest brilliancy	16083 Jul 02 18:10	10°901'07	-0.6m	morning set	16084 Jul 07 18:09	0°Ω	
morning set	16083 Jul 15 11:07	29°5012'06	-0.0111	max. Earth dist.	16084 Jul 09 06:53	2° Ω 23'14	1.45931 AU
morning set	16083 Jul 15 23:36	0°Ω		max. Lartii dist.	10004 Jul 07 00.33	2 0623 14	1. 4 3/31 AO
max. Earth dist.	16083 Jul 27 12:00		1.45207 AU	superior conj	16084 Jul 10 03:30	3° Ω 43'38	-2°14'05
max. Lartii dist.	10065 Jul 27 12.00	17 6633 23	1.43207 AU	minimum elong	16084 Jul 10 03:30	3° Ω 39'31	2°14'44
superior conj	16002 Iul 21 15:00	24° Ω 25'52	2006154	evening rise	16084 Jul 25 17:16	28° Ω 15'06	2 14 44
1 3	16083 Jul 31 15:09	$24^{\circ} \Omega 49'35$		evening rise			
minimum elong	16083 Jul 31 21:06		2-0/0/		16084 Jul 26 19:38	0° m)	0.0
	16083 Aug 04 02:32	0° m)		greatest brilliancy	16084 Aug 01 12:21	9° m 03'03	-0.9m
evening rise	16083 Aug 14 17:56	17° m 28'23		asc. node	16084 Aug 07 05:02	17° m 51'12	10025120
asc. node	16083 Aug 21 08:19	28° Tp 25'40		evening max el	16084 Aug 15 14:06	28° m/42'32	18°35'39
	16083 Aug 22 07:27	0∘ ⊽			16084 Aug 17 00:19	0∘ ⊽	
evening max el	16083 Sep 02 00:46	14° ≏ 57'48	18°09'38	retrograde	16084 Aug 22 02:27	2° ₾ 13'10	
retrograde	16083 Sep 08 09:27	18° ≏ 18'51		evening set	16084 Aug 25 07:09	1° ≏ 15′13	
evening set	16083 Sep 11 04:54	17° ≏ 36'45			16084 Aug 26 23:41	30°₽, TD)	
inferior conj	16083 Sep 17 07:22	12° ≏ 14'03	1°37'14	inferior conj	16084 Aug 30 23:40	25° m 37'34	2°21'17
minimum elong	16083 Sep 17 09:34	12° ≏ 07'55	1°36'37	minimum elong	16084 Aug 31 01:55	25° m/30'40	2°20'36
min. Earth dist.	16083 Sep 19 20:23	9° ≏ 24'28	0.63734 AU	min. Earth dist.	16084 Sep 01 23:10	23° Mp 12'42	0.65676 AU
desc. node	16083 Sep 22 21:15	6° ≏ 27'48		morning rise	16084 Sep 05 19:32	19° m 12'51	
morning rise	16083 Sep 23 12:17	5° ≏ 57'38		desc. node	16084 Sep 08 18:38	17° m) 19'14	
direct	16083 Sep 30 03:11	3° ჲ 25'30		direct	16084 Sep 12 04:23	16° My 35'22	
morning max el	16083 Oct 13 23:41	11° ≏ 24'29	27°41'53	morning max el	16084 Sep 25 10:53	24° m 24'19	26°53'02
	16083 Oct 28 18:04	0° M			16084 Sep 30 12:16	0∘ ত	
	16083 Nov 15 09:24	0° ∡ ¹			16084 Oct 21 03:58	0° M	
asc. node	16083 Nov 17 09:27	3° ∡ ′55'36		morning set	16084 Oct 31 03:52	17° M 57'51	
morning set	16083 Nov 17 20:50	4° ∡ 52′21		asc. node	16084 Nov 03 06:18	24°ML01'22	
max. Earth dist.	16083 Nov 22 16:26	14° ∡ ¹48'28	1.32296 AU	max. Earth dist.	16084 Nov 04 06:32	26°ML02'34	1.33791 AU
					16084 Nov 06 05:12	0° ∡ ¹	
superior conj	16083 Nov 25 17:33	21° ∡ ¹21′01	1°10'22				
minimum elong	16083 Nov 25 15:13	21° × ⁷ 08'21	1°10'46	superior conj	16084 Nov 08 18:59	5° ∡ ¹21'18	0°48'54
_	16083 Nov 29 16:33	0° ට		minimum elong	16084 Nov 08 16:47	5° ∡ 09'44	0°49'10
evening rise	16083 Dec 02 14:19	6° ප 19'11		evening rise	16084 Nov 16 00:26	20° ∡ ¹43'51	
•	16083 Dec 14 21:35	0° ≈		•	16084 Nov 20 12:19	0°ರ	
desc. node	16083 Dec 19 19:19	7° ≈ 16'07		desc. node	16084 Dec 05 16:20	23° る 32'18	
evening max el	16083 Dec 25 18:48	14° ≈ 09'45	23°20'09	evening max el	16084 Dec 06 07:35	24°る10'40	21°39'00
retrograde	16084 Jan 08 01:53	20° ≈ 44'32		•	16084 Dec 16 04:57	0° ≈	
evening set	16084 Jan 12 11:11	20° ≈ 02'52		retrograde	16084 Dec 18 12:43	0° ≈ 12'53	
min. Earth dist.	16084 Jan 19 05:32	16° ≈ 51'57	0.54920 AU	=	16084 Dec 20 21:43	30°Ŗ₹	
inferior conj	16084 Jan 20 15:02	16° ≈ 03'30	-5°51'50	evening set	16084 Dec 21 15:27	29° ろ 50'58	
minimum elong	16084 Jan 20 20:03	15° ≈ 56'14	5°50'46	inferior conj	16084 Dec 30 06:56	26° පි 00'50	-5°56'20
morning rise	16084 Jan 29 06:18	12° ≈ 11'39		minimum elong	16084 Dec 30 02:43		5°55'17
direct	16084 Jan 31 23:31	11° ≈ 53'54		min. Earth dist.	16084 Dec 30 10:53		0.54389 AU
morning max el	16084 Feb 12 04:04	17° ≈ 18'29	20°37'49	morning rise	16085 Jan 07 14:34	22° る 12'32	***************************************
asc. node	16084 Feb 13 07:58	18° ≈ 29'15	/ -/	direct	16085 Jan 11 08:09	21° る 42'08	
200. 11000	16084 Feb 21 15:22	0° \		morning max el	16085 Jan 23 22:53	27°る49'14	22°15'22
morning set	16084 Mar 02 00:13	17° ¥ 55'45			16085 Jan 26 01:43	27 O→21→ 0°≈	
morning set	16084 Mar 07 19:55	0° Υ		asc. node	16085 Jan 30 05:16	0 ∞ 5°≈09'06	
	1000 + IVIGI 0/ 17.33	V I		ase. Houc	16085 Feb 13 04:36	0° ∺	
superior conj	16084 Mar 09 12:28	3° Y 27'38	0°59'27	morning set	16085 Feb 14 10:54	0 X 2° ¥ 39'14	
	16084 Mar 09 12:28 16084 Mar 09 15:00	3° Y 40'32	0°59'05	morning set	10005 150 14 10.34	∠ 八 3914	
minimum elong max. Earth dist.	16084 Mar 14 20:13	14° Υ 01'24	1.36006 AU	superior comi	16085 Feb 21 12:17	17°) 43′09	1°18'21
		14° γ ′01′24 17° γ ′50′13	1.30000 AU	superior conj		17° X 43'09 17° X 55'22	1°18'21 1°18'18
desc. node	16084 Mar 16 20:17	21° Y 17'35		minimum elong	16085 Feb 21 14:35	1/° 1 55′22 25° 1 50′51	
evening rise	16084 Mar 18 16:52			max. Earth dist.	16085 Feb 25 09:59	25° Υ 50'51 0° Υ	1.34081 AU
	16084 Mar 23 14:02	0° Η		avanie – -i-	16085 Feb 27 11:24		
	16084 Apr 12 05:51	$\Pi^{\circ}0$		evening rise	16085 Mar 01 18:54	4° Ƴ 32'18	

desc. node	16085 Mar 03 16:57 16085 Mar 16 09:16	8° Ƴ 11'50 0° ႘		desc. node	16086 Feb 18 13:38 16086 Feb 19 10:56	28°) 21'31 0° Υ	
evening max el	16085 Apr 05 17:04	26° 8 24'18	26°59'44		16086 Mar 10 15:55	0°8	
	16085 Apr 09 20:04	0°II		evening max el	16086 Mar 19 05:53	9° 8 43'25	27°31'25
retrograde	16085 Apr 19 02:00	3° Ⅱ 54'01		retrograde	16086 Apr 02 00:23	17° 8 15'05	
evening set	16085 Apr 25 14:47	1° Ⅱ 22'11		evening set	16086 Apr 08 18:52	14° 8 49'25	
	16085 Apr 27 04:38	30° ₹ 8		min. Earth dist.	16086 Apr 12 13:48	11° 8 29'48	0.63902 AU
asc. node	16085 Apr 28 02:30	29° 8 05'51		asc. node	16086 Apr 14 23:46	8° 8 59'19	
min. Earth dist.	16085 Apr 29 13:10	27° 8 32'14	0.65788 AU	inferior conj	16086 Apr 15 06:53	8° 8 40'41	0°05'36
inferior conj	16085 May 01 18:23	24° 8 59'11	1°06'23	minimum elong	16086 Apr 15 06:44	8° 8 41'06	0°05'08
minimum elong	16085 May 01 16:45	25° 8 03'52	1°05'15	transit middle	16086 Apr 15 06:44	8° 8 41'06	0°05'08
morning rise	16085 May 07 20:11	19° 8 25'40		transit begin	16086 Apr 15 03:46	8° 8 48'51	
direct	16085 May 10 17:13	18° 8 40'39	10005117	transit end	16086 Apr 15 09:41	8° 8 33'22	
morning max el	16085 May 17 00:47 16085 May 23 11:15	21° 8 58′03 0° Ⅱ	18°05'17	morning rise direct	16086 Apr 21 20:56 16086 Apr 24 09:15	3° 8 22'05 2° 8 50'30	
desc. node	16085 May 30 17:56	11° Ⅱ 17'01		morning max el	16086 Apr 30 18:09	6° 8 05'48	17°48'12
morning set	16085 Jun 04 18:05	19° Ⅲ 22'32		morning max or	16086 May 16 17:55	0°Ⅱ	17 1012
	16085 Jun 11 08:24	0ಂಣ		morning set	16086 May 17 13:01	1° Ⅱ 20'56	
				desc. node	16086 May 17 14:51	1° Ⅱ 28'40	
superior conj	16085 Jun 19 13:53	13° © 02'02	-2°01'12		,		
minimum elong	16085 Jun 19 06:21	12° 5 32'29	2°01'28	superior conj	16086 May 30 14:32	23° Ⅱ 03'18	-1°32'21
max. Earth dist.	16085 Jun 22 03:41	17° © 03'58	1.45902 AU	minimum elong	16086 May 30 06:18	22° Ⅱ 29'58	1°32'10
	16085 Jun 30 11:28	0 $^{\circ}\Omega$			16086 Jun 03 22:36	0 \circ	
evening rise	16085 Jul 05 17:07	8° Ω 05′10		max. Earth dist.	16086 Jun 04 23:22	1° 5 38'08	1.45131 AU
greatest brilliancy	16085 Jul 18 00:09	26° Ω 50′12	-0.7m	evening rise	16086 Jun 15 04:16	17° © 29'26	
	16085 Jul 20 03:45	0° m)			16086 Jun 23 10:53	0 \circ Ω	
asc. node	16085 Jul 25 01:47	6° m 50'52		asc. node	16086 Jul 11 22:37	25°Ω16'00	
evening max el	16085 Jul 29 23:15	12° Tp 34'24	19°18'23	evening max el	16086 Jul 13 02:37	26° Ω 28'39	20°16'23
retrograde	16085 Aug 05 23:40	16° TD 27'34		4 4	16086 Jul 17 14:13	0°M)	
evening set inferior conj	16085 Aug 09 14:12 16085 Aug 15 00:06	15° Mp 12'12 9° Mp 21'05	2°49'44	retrograde	16086 Jul 20 22:42 16086 Jul 24 02:07	0° Mp 56′12 30° RΩ	
minimum elong	16085 Aug 15 00:06	9° my 15'34	2°49'08	evening set	16086 Jul 24 02.07	30 και 29° Ω 22'59	
min. Earth dist.	16085 Aug 16 09:29	7° m ₂ 32'02	0.67238 AU	inferior conj	16086 Jul 30 05:57	23° Ω 19'44	3°04'53
morning rise	16085 Aug 20 12:45	2° m/54'28	0.07230710	minimum elong	16086 Jul 30 06:45	23°Ω16'58	3°04'19
direct	16085 Aug 26 12:14	0° m/20'12		min. Earth dist.	16086 Jul 31 01:29	22°Ω12'58	0.68354 AU
desc. node	16085 Aug 26 16:01	0° m) 20'18		morning rise	16086 Aug 04 13:34	16° Ω 55'38	
morning max el	16085 Sep 07 22:13	7° m 44'33	25°41'15	direct	16086 Aug 10 01:48	14° Ω 31'25	
	16085 Sep 25 08:19	0∘ ⊽		desc. node	16086 Aug 13 13:21	15° Ω 19'19	
morning set	16085 Oct 13 20:40	0°M24'10		morning max el	16086 Aug 21 09:16	21° Ω 17'14	24°16'05
	16085 Oct 13 15:21	0° M			16086 Aug 28 22:28	0° ™	
max. Earth dist.	16085 Oct 17 11:23	7° M 07'16	1.35779 AU		16086 Sep 18 13:41	0∘ ⊽	
asc. node	16085 Oct 21 03:06	14° M 11'44		morning set	16086 Sep 25 19:12	12° ≏ 02'54	
				max. Earth dist.	16086 Sep 29 10:39	18° ≏ 26'58	1.38099 AU
superior conj	16085 Oct 23 12:06	18°M.55'59			16086 Oct 05 16:57	0°M₊	
minimum elong	16085 Oct 23 10:51	18°M49'44	0°21'43		160060 + 06 17 22	10 m 57105	0011110
	16085 Oct 28 21:41	0° ∡¹ 4° ∡¹ 59'47		superior conj	16086 Oct 06 17:33	1°M57'25 2°M01'01	
evening rise	16085 Oct 31 07:44 16085 Nov 14 06:56	4° X '39'4/ 0° る		minimum elong behind sun begin	16086 Oct 06 18:19 16086 Oct 06 13:09	1°MJ36'20	0°10'49
evening max el	16085 Nov 18 07:59		20°12'55	behind sun end	16086 Oct 06 23:28	2°M25'44	
desc. node	16085 Nov 22 13:25	8° ろ 08'39	20 12 33	asc. node	16086 Oct 07 23:51	4°M23'17	
retrograde	16085 Nov 29 00:14	10° ට 00'39		evening rise	16086 Oct 15 09:50	19°M01'20	
evening set	16085 Dec 01 05:09	9° ප 51'43		overmig rise	16086 Oct 21 01:58	0° ⊼	
inferior conj	16085 Dec 10 00:22	5° ਰ 55'16	-5°00'37	evening max el	16086 Oct 31 22:52	16° ∡ 09'29	19°08'27
minimum elong	16085 Dec 09 14:32	6° そ 09'53	4°57'26	desc. node	16086 Nov 09 10:33	20° ∡ ′42'25	
min. Earth dist.	16085 Dec 11 16:44	4° る 55'14	0.54792 AU	retrograde	16086 Nov 10 00:52	20° х 43′33	
morning rise	16085 Dec 17 23:13	1° る 51'48		evening set	16086 Nov 11 22:10	20° ∡ ³32'32	
direct	16085 Dec 22 18:15	1° る 02'06		inferior conj	16086 Nov 20 08:46	16° ∡ 19'40	-3°25'45
morning max el	16086 Jan 05 08:20	7° る 44'15	24°05'03	minimum elong	16086 Nov 20 00:25	16° ∡ ³33'52	
asc. node	16086 Jan 17 02:32	22° る 51'52		min. Earth dist.	16086 Nov 23 02:51	14° ∡ °27'46	0.56059 AU
	16086 Jan 21 06:32	0° ≈		morning rise	16086 Nov 28 00:06	11° ∡ 744′01	
morning set	16086 Jan 29 22:53	17°≈22'15		direct	16086 Dec 03 15:53	10° ₹ 29'49	250
	16086 Feb 04 17:49	0° ℋ		morning max el	16086 Dec 17 18:08	17° ₹ 40'30	25°49'09
avm oni ·	16006 E-L 05 10 10	201/12/50	1920154	000 m-J-	16086 Dec 27 22:13	0°る	
superior conj minimum elong	16086 Feb 05 18:10 16086 Feb 05 19:44	2° H 12'59 2° H 21'33	1°30'54 1°31'11	asc. node	16087 Jan 03 23:43 16087 Jan 13 11:59	11°る22'00 0°≈	
max. Earth dist.	16086 Feb 03 19:44 16086 Feb 08 07:26	7°) 44'16	1.32566 AU	morning set	16087 Jan 13 11:39 16087 Jan 14 10:17	0°≈ 1°≈59'26	
evening rise	16086 Feb 13 08:23	18° X 13'51	1.52500 AU	morning set	1000 / Jan 14 10.1 /	1 ~ 39 20	
5 , ching 1150	10000100 13 00.23	10 /(1331					

superior conj	16087 Jan 21 03:45	16° ≈ 50'22	1°37'14		16088 Jan 04 23:04	0° ≈	
minimum elong	16087 Jan 21 04:20	16° ≈ 53'35	1°37'47				
max. Earth dist.	16087 Jan 22 11:10	19° ≈ 44'30	1.31538 AU	superior conj	16088 Jan 05 15:05	1° ≈ 29'43	1°37'31
	16087 Jan 27 04:41	0° ∀		minimum elong	16088 Jan 05 14:36	1° ≈ 27'01	1°38'11
evening rise	16087 Jan 28 06:24	2° ¥ 15′01		max. Earth dist.	16088 Jan 05 18:24	1° ≈ 48′18	1.31036 AU
desc. node	16087 Feb 05 10:19	18° ¥ 13'27		evening rise	16088 Jan 12 10:35	16° ≈ 30′24	
	16087 Feb 12 07:45	0° Υ			16088 Jan 19 02:22	0° ∀	
evening max el	16087 Mar 01 15:29	22° Y 27'11	27°32'59	desc. node	16088 Jan 23 07:03	7°) (40'46	
retrograde	16087 Mar 15 15:03 16087 Mar 22 10:28	29° Y 53'47 27° Y 41'46		·	16088 Feb 07 14:41 16088 Feb 11 19:34	0° Υ 4° Υ 25'11	27°00'05
evening set min. Earth dist.	16087 Mar 22 10:28 16087 Mar 26 04:51	24° Y 46'18	0.61749 AU	evening max el retrograde	16088 Feb 11 19:34 16088 Feb 25 20:32	4° γ 25°11 11° Υ 41'30	27-00-05
inferior conj	16087 Mar 29 07:02	21° Y 55'23		evening set	16088 Mar 03 10:27	9° Υ 50'36	
minimum elong	16087 Mar 29 09:27	21° Υ '49'46	1°08'20	min. Earth dist.	16088 Mar 07 09:48	7° Υ ′09'48	0.59493 AU
asc. node	16087 Apr 01 21:05	18° Y '51'50		inferior conj	16088 Mar 10 15:10	4° Υ '34'10	
morning rise	16087 Apr 05 11:39	16° Ƴ 54'19		minimum elong	16088 Mar 10 21:06	4° Υ ′22'12	
direct	16087 Apr 07 16:34	16° Ƴ 32'51		morning rise	16088 Mar 18 11:19	29° ¥ 53′03	
morning max el	16087 Apr 14 11:23	19° Ƴ 57'49	17°48'50		16088 Mar 18 01:05	30° ₹	
	16087 Apr 21 22:58	0° 8		asc. node	16088 Mar 18 18:24	29°) 48′59	
morning set	16087 Apr 30 06:03	14° 8 20'29		direct	16088 Mar 20 11:12	29°) 38′02	
desc. node	16087 May 04 11:39	21° 8 51'11			16088 Mar 22 19:54	0° Υ	
	16087 May 09 03:54	Π $^{\circ}$ 0		morning max el	16088 Mar 28 01:00	3° Y 24'05	18°08'15
	1600734 11 12 47	40 110 (152	0055121	morning set	16088 Apr 12 15:26	28° Y 04'32	
superior conj	16087 May 11 13:47	4°П06'53 3°П45'22		11-	16088 Apr 13 16:10	0°8 12°820'36	
minimum elong max. Earth dist.	16087 May 11 08:42 16087 May 18 15:14	15° Ц 45'22	1.43703 AU	desc. node	16088 Apr 20 08:26	12 620 30	
evening rise	16087 May 25 19:11	27° Ⅱ 09'44	1.43703 AU	superior conj	16088 Apr 22 11:54	16° 8 12'17	-0°17'42
evening rise	16087 May 27 15:11	0°95		minimum elong	16088 Apr 22 10:27	16° 8 05'46	0°17'56
	16087 Jun 17 07:01	$0^{\circ}\Omega$		max. Earth dist.	16088 Apr 30 02:18	29° 8 21'56	1.41776 AU
evening max el	16087 Jun 25 23:54	10° Ω 22'14	21°27'07		16088 Apr 30 11:23	0°II	
asc. node	16087 Jun 28 19:29	12° Ω 53'59		evening rise	16088 May 05 02:55	7° Ⅱ 37'51	
retrograde	16087 Jul 04 21:30	15° Ω 32'22			16088 May 19 18:05	0 \circ \odot	
evening set	16087 Jul 09 09:23	13° Ω 41'55		evening max el	16088 Jun 07 16:30	24°9516'06	22°46'15
inferior conj	16087 Jul 14 14:52	7° Ω 28'06	3°08'25	asc. node	16088 Jun 14 16:25	29° 5 29'49	
minimum elong	16087 Jul 14 14:42	7° Ω 28'38	3°07'46		16088 Jun 16 05:15	0 ° Ω	
min. Earth dist.	16087 Jul 14 21:02	7° Ω 06'32	0.68990 AU	retrograde	16088 Jun 17 18:27	0° Ω 10'48	
morning rise	16087 Jul 19 19:49	1° Ω 09'25			16088 Jun 19 06:17	30°₹©	
direct	16087 Jul 21 09:35 16087 Jul 24 19:57	30°RS 29°S€00'15		evening set min. Earth dist.	16088 Jun 22 17:49 16088 Jun 27 17:58	28°504'39 22°506'05	0.69139 AU
direct	16087 Jul 24 19.37 16087 Jul 28 13:40	29 3 00 13		inferior conj	16088 Jun 28 00:50	22 30 00 03 21° 5 42'13	0.09139 AU 3°01'16
desc. node	16087 Jul 31 10:39	1° Ω 51'45		minimum elong	16088 Jun 27 23:47	21°542'13	3°00'26
morning max el	16087 Aug 03 21:09	4° Ω 57'18	22°46'52	morning rise	16088 Jul 03 05:37	15°931'01	5 00 20
S	16087 Aug 23 03:51	0° m)		direct	16088 Jul 07 17:36	13° © 40'02	
morning set	16087 Sep 06 19:29	22° m/44'43		morning max el	16088 Jul 16 12:34	18° © 45'28	21°21'51
	16087 Sep 11 03:59	0∘ ⊽		desc. node	16088 Jul 17 07:54	19° © 34'55	
max. Earth dist.	16087 Sep 11 10:16	0° ≏ 26'41	1.40501 AU		16088 Jul 25 20:26	0 $^{\circ}$ Ω	
					16088 Aug 15 06:37	0° ™	
superior conj	16087 Sep 19 07:18	14° ≏ 16'17		morning set	16088 Aug 16 19:57	2° TD 26'02	
minimum elong	16087 Sep 19 11:01	14° £ 33'09	0°46'47	max. Earth dist.	16088 Aug 23 15:16	13° m 19'59	1.42711 AU
asc. node	16087 Sep 24 20:33	24° £ 32'18			16000 A 21 00.55	250m 42144	1022151
evening rise	16087 Sep 27 17:51 16087 Sep 29 03:39	0°ጤ 2°ጤ40'30		superior conj minimum elong	16088 Aug 31 00:55 16088 Aug 31 07:44	25° m/42'44 26° m/11'56	
evening rise	16087 Oct 15 01:53	28°M21'54	18°26'17	minimum ciong	16088 Sep 02 12:31	0° ⊽	1 23 00
evening max er	16087 Oct 16 21:57	0° x ⁷	10 2017	asc. node	16088 Sep 10 17:13	0 — 14° Ω 34'49	
retrograde	16087 Oct 22 20:20	2° х 18'38		evening rise	16088 Sep 11 09:10	15° Ω 46'53	
evening set	16087 Oct 24 20:00	2° ₹ 03'54		<i>5</i>	16088 Sep 19 10:31	0° M	
desc. node	16087 Oct 27 07:43	1° х 707′16		evening max el	16088 Sep 27 12:43	11°M12'28	18°04'51
	16087 Oct 29 05:41	30°RM		retrograde	16088 Oct 04 09:53	14° M 44'31	
inferior conj	16087 Nov 01 14:31	27°M30'19	-1°42'06	evening set	16088 Oct 06 16:15	14°M21'49	
minimum elong	16087 Nov 01 10:31	27°M38'13	1°39'54	desc. node	16088 Oct 13 05:00	9° ™ 55′25	
min. Earth dist.	16087 Nov 04 19:58	24°M57'35	0.57963 AU	inferior conj	16088 Oct 13 17:19	9°M27'14	
morning rise	16087 Nov 08 21:34	22°M17'41		minimum elong	16088 Oct 13 17:00	9°M27'57	
direct	16087 Nov 15 04:18	20°M36'22	27000150	transit middle	16088 Oct 13 17:00	9°M27'57	0°09'12
morning max el	16087 Nov 29 10:47	28°M09'36	27°08'50	transit begin	16088 Oct 13 14:16	9°M34'15	
asc node	16087 Dec 01 06:22 16087 Dec 21 20:51	0°♂ 0°♂27'23		transit end min. Earth dist.	16088 Oct 13 19:44 16088 Oct 16 21:50	9°M21'39 6°M32'23	0.60205 AU
asc. node	16087 Dec 21 20:51 16087 Dec 21 14:59	0°52723		min. Earth dist.	16088 Oct 16 21:30 16088 Oct 20 14:34	3°M42'42	0.00203 AU
morning set	16087 Dec 21 14.39 16087 Dec 29 19:22	0 8 16° 8 26'15		direct	16088 Oct 20 14.34 16088 Oct 27 05:28	1°M36'34	
morning set	1000, Dec 2) 1).22	10 02013		311001	10000 001 27 00.20	1 IIV)UJ4	

morning max el	16088 Nov 10 11:24	9° M .25'33	27052111		16089 Oct 31 04:54	0°M	
morning max er	16088 Nov 26 08:37	9 1162333 0° x 7	27 32 11		16089 Nov 19 11:34	0 IIL 0° √ 1	
asc. node	16088 Nov 20 08:57	19° ∡ 757'52		asc. node	16089 Nov 24 14:52	9° × ⁷ 46'30	
asc. node	16088 Dec 12 17:09	0°る		morning set	16089 Nov 26 22:40	14° × ⁷ 27'05	
morning set	16088 Dec 13 00:11	0° る 36'56		max. Earth dist.	16089 Dec 02 04:48	25° х 32'42	1.31699 AU
max. Earth dist.	16088 Dec 19 01:30	13° る 46'53	1.31086 AU	max. Lattii dist.	1000) Dec 02 04.40	23 🗡 32 42	1.510)) AO
max. Darm dist.	10000 Dec 17 01.50	13 0 10 23	1.51000710	superior conj	16089 Dec 04 11:14	0° る 30'20	1°19'58
superior conj	16088 Dec 20 02:12	16° る 04'37	1°31'46	minimum elong	16089 Dec 04 09:07	0° る 18'36	1°20'27
minimum elong	16088 Dec 20 00:45	15° る 56'35	1°32'24		16089 Dec 04 05:44	0°ਰ	
	16088 Dec 26 08:51	0° ≈		evening rise	16089 Dec 11 05:13	15° る 21'22	
evening rise	16088 Dec 26 18:48	0° ≈ 53'53		<i>8</i> 11	16089 Dec 18 08:51	0° ≈	
desc. node	16089 Jan 09 03:49	26° ≈ 33'25		desc. node	16089 Dec 27 00:41	14° ≈ 39′08	
	16089 Jan 11 07:45	0° ∀		evening max el	16090 Jan 05 04:08	25° ≈ 47'39	24°19'28
evening max el	16089 Jan 23 15:50	15°) 30′13	25°52'57		16090 Jan 10 12:22	0° ∀	
retrograde	16089 Feb 06 14:30	22°) €32'58		retrograde	16090 Jan 18 19:07	2°) (34′22	
evening set	16089 Feb 12 15:10	21°) €08'27		evening set	16090 Jan 23 21:33	1°) 37'31	
min. Earth dist.	16089 Feb 17 04:55	18° ¥ 29′38	0.57360 AU		16090 Jan 27 10:57	30° R ≈	
inferior conj	16089 Feb 20 03:43	16°) €26′26	-4°06'10	min. Earth dist.	16090 Jan 29 15:51	28° ≈ 44′09	0.55629 AU
minimum elong	16089 Feb 20 12:42	16°) 10′46	4°03'05	inferior conj	16090 Jan 31 19:02	27° ≈ 26′10	-5°23'27
morning rise	16089 Feb 28 13:17	12°) €06'40		minimum elong	16090 Feb 01 03:24	27° ≈ 13′23	5°21'22
direct	16089 Mar 02 12:55	11° ¥ 54'17		morning rise	16090 Feb 09 11:12	23° ≈ 26′22	
asc. node	16089 Mar 05 15:44	12°) €26'32		direct	16090 Feb 11 19:01	23° ≈ 12'12	
morning max el	16089 Mar 11 06:55	16° ℋ 12'08	18°48'21	asc. node	16090 Feb 20 13:06	26° ≈ 49'36	
	16089 Mar 20 23:37	0° Y		morning max el	16090 Feb 22 00:56	28° ≈ 10′30	19°51'09
morning set	16089 Mar 27 12:12	12° Y 18'06			16090 Feb 23 18:35	0° ℋ	
				morning set	16090 Mar 11 16:33	26°) 49′53	
superior conj	16089 Apr 05 05:15	29° Y ′08'55	0°16'45		16090 Mar 13 05:58	0° Y	
minimum elong	16089 Apr 05 06:20	29° Y 14′00	0°16'15				
	16089 Apr 05 16:07	0°8		superior conj	16090 Mar 19 13:28	12° Y ′44′52	0°45'39
desc. node	16089 Apr 07 05:09	2° 8 52'42		minimum elong	16090 Mar 19 15:47	12° Y 56′20	0°45'10
max. Earth dist.	16089 Apr 12 09:39	12° 8 14'55	1.39548 AU	desc. node	16090 Mar 25 01:50	23° Y 23'50	
evening rise	16089 Apr 16 07:55	19° 8 01'42		max. Earth dist.	16090 Mar 25 16:14	24° Y 31'04	1.37258 AU
	16089 Apr 23 00:37	0°Щ			16090 Mar 28 16:05	0°8	
	16089 May 14 00:37	0.22		evening rise	16090 Mar 29 09:01	1° 8 15'52	
evening max el	16089 May 21 06:39	8°5511'20	24°07'52		16090 Apr 16 04:49	0°II	25025100
retrograde	16089 Jun 01 12:16	14°5546'00		evening max el	16090 May 03 20:07	22° Ⅱ 05'40	25°25'00
asc. node	16089 Jun 01 13:24	14°5946'00		retrograde	16090 May 16 01:56	29° Ⅱ 11'11	
evening set	16089 Jun 06 23:20	12°526'45	0.60700 ATT	asc. node	16090 May 19 10:30	28° Ⅲ 24'54	
min. Earth dist.	16089 Jun 11 14:08	7° © 05'42 5° © 58'22	0.68799 AU	evening set	16090 May 22 00:15	26° ∏ 42'34	0.67092 ATT
inferior conj	16089 Jun 12 10:00 16089 Jun 12 08:13	6°904'23	2°43'41 2°42'36	min. Earth dist.	16090 May 26 07:24	21° П 58'30 20° П 11'55	0.67982 AU 2°15'17
minimum elong morning rise	16089 Jun 17 17:10	6 904 23 29°П56'05	2 42 30	inferior conj	16090 May 27 16:22	20° П 18'55	2°14'00
morning rise	16089 Jun 17 17:10	29 Д3603 30°RД		minimum elong morning rise	16090 May 27 14:12 16090 Jun 02 04:36	20 П 18 33 14° П 19'49	2 14 00
direct	16089 Jun 21 17:19	28° ∏ 24'47		direct	16090 Jun 05 17:31	13° Ⅱ 08'00	
direct	16089 Jun 26 03:50	0°95		morning max el	16090 Jun 12 15:20	16° Ⅱ 53'17	19°07'04
morning max el	16089 Jun 29 10:16	2°5944'23	20°07'20	desc. node	16090 Jun 21 02:15	27° Ⅲ 24'48	17 07 04
desc. node	16089 Jul 04 05:07	8°9510'40	20 07 20	dese. Hode	16090 Jun 22 21:24	0°95	
dese. node	16089 Jul 19 14:33	0°N		greatest brilliancy	16090 Jun 25 13:19	3°955'58	-0.7m
morning set	16089 Jul 27 02:55	11° Ω 24'57		morning set	16090 Jul 06 09:09	20°\$26'56	****
max. Earth dist.	16089 Aug 06 03:24	27° Ω 04'05	1.44471 AU	. 8	16090 Jul 12 13:26	$0^{\circ}\Omega$	
	16089 Aug 07 23:28	0° m)		max. Earth dist.	16090 Jul 19 20:50		1.45603 AU
superior conj	16089 Aug 11 19:15	6° Mp 10′46	-1°54'37	superior conj	16090 Jul 22 15:47	15° Ω 45'45	-2°12'22
minimum elong	16089 Aug 12 02:57	6° m 42'10		minimum elong	16090 Jul 22 19:13	15° Ω 59'15	
evening rise	16089 Aug 24 21:28	28° m 08'20		Č	16090 Jul 31 14:22	0° m	
•	16089 Aug 25 23:31	0∘ ⊽		evening rise	16090 Aug 06 11:17	9°m/31'29	
asc. node	16089 Aug 28 13:53	4° £ 27'04		asc. node	16090 Aug 15 10:34	24° m 03'39	
evening max el	16089 Sep 11 03:13	24° ₽ 31'03	18°02'38		16090 Aug 19 07:38	0∘ ⊽	
retrograde	16089 Sep 17 13:35	27° ≏ 52'14		evening max el	16090 Aug 25 17:46	8° ჲ 07'39	18°18'34
evening set	16089 Sep 20 04:07	27° ≏ 17'58		retrograde	16090 Sep 01 02:57	11° ≏ 31'22	
inferior conj	16089 Sep 26 13:52	22° ≏ 04'34	1°03'43	evening set	16090 Sep 04 02:16	10° ≏ 42'43	
minimum elong	16089 Sep 26 15:34	22° ჲ 00'06	1°03'20	inferior conj	16090 Sep 10 00:02	5° ≏ 13'07	1°57'58
min. Earth dist.	16089 Sep 29 09:39	19° ჲ 08'01	0.62490 AU	minimum elong	16090 Sep 10 02:22	5° ഫ 06'20	1°57'17
desc. node	16089 Sep 30 02:20	18° ≏ 26'55		min. Earth dist.	16090 Sep 12 07:20	2° م 32'40	0.64597 AU
morning rise	16089 Oct 03 00:38	15° ≏ 57'06			16090 Sep 14 17:46	30°₽,₩)	
direct	16089 Oct 09 17:03	13° ≏ 32'27		morning rise	16090 Sep 16 00:55	28° m 52'08	
morning max el	16089 Oct 23 18:25	21° ≏ 29'52	27°56'12	desc. node	16090 Sep 16 23:43	28° Mp 09'46	

direct	16090 Sep 22 13:33 16090 Oct 01 10:54	26° Mp 17'00 0° <u>Ω</u>		desc. node	16091 Sep 03 21:07 16091 Sep 05 17:44	9° Mp 55'21 9° Mp 42'00	
morning max el	16090 Oct 06 05:04 16090 Oct 25 17:51	4° ≙ 13'14 0° ጤ	27°24'35	morning max el	16091 Sep 18 16:39 16091 Sep 29 06:23	17° m 23'11 0° ≏	26°24'44
morning set	16090 Nov 10 12:14	27°M50'40			16091 Oct 18 16:08	0° M	
asc. node	16090 Nov 11 11:46	29°M47'09		morning set	16091 Oct 24 13:41	10°ML40'23	
	16090 Nov 11 14:21	0° ∡ ¹		max. Earth dist.	16091 Oct 28 10:27	18°ML05'41	1.34577 AU
max. Earth dist.	16090 Nov 15 00:35	6° ₹ '58'40	1.32870 AU	asc. node	16091 Oct 29 08:36	19°M55'05	
superior conj	16090 Nov 18 16:07	14° ₹ 41'11	1°02'01	superior conj	16091 Nov 02 14:20	28°M30'53	0°37'57
minimum elong evening rise	16090 Nov 18 13:45 16090 Nov 25 15:59	14° ₹ 28'31 29° ₹ 48'06	1°02'21	minimum elong	16091 Nov 02 12:26 16091 Nov 03 07:32	28°M21'01 0° ∡ 7	0°38'12
evening rise	16090 Nov 25 18:12	29 X 48 00		evening rise	16091 Nov 10 01:08	14° ∡ ¹09'08	
	16090 Dec 12 13:34	0° ≈		evening rise	16091 Nov 18 01:23	0°ਰ	
desc. node	16090 Dec 13 21:38	1° ≈ 41'22		evening max el	16091 Nov 29 06:35	15° පි 54'28	21°00'01
evening max el	16090 Dec 17 13:45	5° ≈ 42'57	22°35'56	desc. node	16091 Nov 30 18:40	17° る 18'03	
retrograde	16090 Dec 30 11:28	12° ≈ 06′04		retrograde	16091 Dec 10 21:22	21° る 39'45	
evening set	16091 Jan 03 07:38	11° ≈ 33'47		evening set	16091 Dec 13 12:48	21° පි 23'11	
min. Earth dist.	16091 Jan 10 22:10	8° ≈ 06'02	0.54584 AU	inferior conj	16091 Dec 22 07:21	17° ප 31'56	
inferior conj	16091 Jan 11 16:37	7°≈40'00		minimum elong	16091 Dec 21 23:50	17°る42'36	
minimum elong	16091 Jan 11 17:55	7°≈38'10	6°00'39	min. Earth dist.	16091 Dec 23 03:37	17°る03'06	0.54438 AU
morning rise	16091 Jan 20 05:22	3°≈52'01		morning rise	16091 Dec 30 10:59 16092 Jan 03 15:25	13°る39'18 13°る01'34	
direct morning max el	16091 Jan 23 08:04 16091 Feb 04 04:11	3°≈29'58 9°≈12'45	2101705	direct morning max el	16092 Jan 03 15:25 16092 Jan 16 18:09	13° る 01'34	22901126
asc. node	16091 Feb 07 10:26	12°≈45'07	21 17 03	asc. node	16092 Jan 25 07:45	19 3 2317 29° る 53'54	23 01 20
use. Houe	16091 Feb 18 08:07	0° ∀		use. Houe	16092 Jan 25 09:23	0°≈	
morning set	16091 Feb 24 01:37	11°) (31'30		morning set	16092 Feb 08 13:04	26°≈15'22	
				C	16092 Feb 10 06:57	0° ∀	
superior conj	16091 Mar 03 08:36	26° ¥ 49′21	1°08'15				
minimum elong	16091 Mar 03 11:07	27°) €02'24	1°08'00	superior conj	16092 Feb 15 11:19	11° ¥ 12′06	1°24'25
	16091 Mar 04 21:39	0° Υ		minimum elong	16092 Feb 15 13:21	11° ∺ 23′03	1°24'32
max. Earth dist.	16091 Mar 08 02:06	6° Y ′24′23	1.35140 AU	max. Earth dist.	16092 Feb 18 18:48	18° ¥ 13′02	1.33377 AU
desc. node	16091 Mar 11 22:30	13°Υ50'22		evening rise	16092 Feb 23 10:19	27°) ₹38′50	
evening rise	16091 Mar 12 03:02 16091 Mar 21 01:04	14° Y 11'38 0° と		desc. node	16092 Feb 24 15:14 16092 Feb 26 19:09	0°Υ 4°Υ07'25	
	16091 Mai 21 01:04 16091 Apr 10 22:50	0°II		desc. node	16092 Feb 26 19.09 16092 Mar 13 07:11	4 10/23 0° と	
evening max el	16091 Apr 16 09:44	5° П 53'58	26°30'19	evening max el	16092 Mar 28 23:13	.T.	27°16'27
retrograde	16091 Apr 29 10:35	13° Ⅱ 18'57		retrograde	16092 Apr 11 13:14	26° 8 59'22	_, _, _,
evening set	16091 May 05 18:46	10° Ⅱ 46'16		evening set	16092 Apr 18 04:46	24° 8 29'10	
asc. node	16091 May 06 07:40	10° Ⅲ 18'57		min. Earth dist.	16092 Apr 22 01:21	20° 8 52'37	0.65024 AU
min. Earth dist.	16091 May 09 19:48	6° Ⅲ 37′25	0.66709 AU	asc. node	16092 Apr 22 04:55	20° 8 43'00	
inferior conj	16091 May 11 17:49	4° Ⅱ 18′26	1°35'14	inferior conj	16092 Apr 24 11:51	18° 8 10'56	0°42'19
minimum elong	16091 May 11 15:48		1°33'56	minimum elong	16092 Apr 24 10:44	18° 8 14'03	0°41'23
	16091 May 15 16:56	30°R8		morning rise	16092 Apr 30 18:33	12° 8 43'29	
morning rise	16091 May 17 13:53 16091 May 20 16:22	28° 8 37'47 27° 8 43'51		direct	16092 May 03 11:38	12° 8 04'44 15° 8 20'07	17°55'50
direct	16091 May 20 16.22 16091 May 25 20:42	27 0 43 31 0° Ⅱ		morning max el	16092 May 09 18:56 16092 May 20 10:48	0° Ⅱ	17 33 30
morning max el	16091 May 27 02:57	1° Ⅱ 07'53	18°22'59	desc. node	16092 May 24 20:15	7° Ⅱ 09'53	
desc. node	16091 Jun 07 23:18	17° Ⅲ 07'21		morning set	16092 May 27 13:29	11° Ⅲ 38'50	
morning set	16091 Jun 16 09:46	0°924'00			16092 Jun 07 19:59	0ಂಣ	
	16091 Jun 16 03:42	0 \circ \odot					
				superior conj	16092 Jun 10 15:59	4° © 30'42	
superior conj	16091 Jul 02 01:09	24° © 58'04		minimum elong	16092 Jun 10 07:26	3°956'48	1°50'30
minimum elong	16091 Jul 01 20:49	24°5541'11	2°11'34	max. Earth dist.	16092 Jun 14 12:41	10° © 36'01	1.45660 AU
max. Earth dist.	16091 Jul 02 16:42	25°958'38	1.46009 AU	evening rise	16092 Jun 26 16:28	29° © 25'10	
avaning rise	16091 Jul 05 06:40	0° Ω 19° Ω 51'53		grantest brillians	16092 Jul 10 18:19	0°Ω 20°Ω37'25	-0.6m
evening rise	16091 Jul 17 24:00 16091 Jul 24 11:30	0° m)		greatest brilliancy	16092 Jul 10 18:19 16092 Jul 17 12:14	20° Ω 37'25 0° m	-0.0III
greatest brilliancy	16091 Jul 27 10:40	راتان 4° الله 35'21	-0.8m	asc. node	16092 Jul 17 12.14 16092 Jul 19 04:02	2° Mp 05'03	
asc. node	16091 Aug 02 07:17	13° m) 18'52	-	evening max el	16092 Jul 22 12:15	5° m) 48'25	19°41'22
evening max el	16091 Aug 09 05:28	21° m 55'15	18°51'48	retrograde	16092 Jul 29 20:20	9° m, 55'02	-
retrograde	16091 Aug 15 22:09	25° m 34'22		evening set	16092 Aug 02 15:07	8° m 32'18	
evening set	16091 Aug 19 06:52	24° m 29'16		inferior conj	16092 Aug 07 23:11	2° Mp 36'03	2°57'40
inferior conj	16091 Aug 24 20:10	18° m 45'36	2°35'07	minimum elong	16092 Aug 08 00:31	2° Mp 31'36	2°57'05
minimum elong	16091 Aug 24 22:14	18° m 39'05	2°34'27	min. Earth dist.	16092 Aug 09 02:43	1° Mp 04'04	0.67768 AU
min. Earth dist.	16091 Aug 26 13:40	16° Mp 34'46	0.66388 AU		16092 Aug 09 22:21	30°R Ω	
morning rise	16091 Aug 30 12:40	12° Mp 19'06		morning rise	16092 Aug 13 09:23	26° Ω 09'55	

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16094 Jul 07 15:37

0°**Ω**52′29

3°05'56

minimum elong

16093 Jul 18 00:52

evening set

22°**Ω**46'40

min. Earth dist.	16094 Jul 07 16:43	0° Ω 48'39	0.69119 AU	evening set	16095 Jun 16 17:44	21° © 31'48	
iiiii. Lartii dist.	16094 Jul 08 06:41	30°RS	0.07117710	min. Earth dist.	16095 Jun 21 13:33	15°9549'20	0.69056 AU
morning rise	16094 Jul 12 20:46	24°935'09		inferior conj	16095 Jun 22 02:02	15°906'14	2°55'04
direct	16094 Jul 17 15:44	22° © 33'33		minimum elong	16095 Jun 22 00:39	15°9511'02	
desc. node	16094 Jul 25 13:05	26°935'58		morning rise	16095 Jun 27 07:32	8°958'47	
morning max el	16094 Jul 27 03:40	28° © 07'51	22°09'48	direct	16095 Jul 01 14:19	7° © 16'22	
	16094 Jul 28 22:22	0° N		morning max el	16095 Jul 09 21:41	12°901'20	20°48'35
	16094 Aug 19 22:25	0° m		desc. node	16095 Jul 12 10:20	14°9543'43	
morning set	16094 Aug 29 02:38	14° m) 18'20			16095 Jul 23 23:35	$0^{\circ}\Omega$	
max. Earth dist.	16094 Sep 03 12:35	23° m 10'03	1.41488 AU	morning set	16095 Aug 08 18:19	23° Ω 38'17	
	16094 Sep 07 13:23	0∘ ⊽		C	16095 Aug 12 19:50	0° ™	
				max. Earth dist.	16095 Aug 16 20:37	6° Mp 26'11	1.43527 AU
superior conj	16094 Sep 11 07:57	6° ≏ 34'57	-1°03'11				
minimum elong	16094 Sep 11 13:03	6° ≏ 57'36	1°02'24	superior conj	16095 Aug 23 15:48	17° m 36'28	-1°38'01
asc. node	16094 Sep 18 22:44	20° ≏ 24'06		minimum elong	16095 Aug 23 23:28	18°M)08'34	1°37'24
evening rise	16094 Sep 21 18:38	25° ჲ 39'19			16095 Aug 30 21:46	0∘ ⊽	
	16094 Sep 24 02:52	0° M		evening rise	16095 Sep 04 17:30	8° ≏ 28'29	
evening max el	16094 Oct 07 16:40	21°M05'05	18°14'38	asc. node	16095 Sep 05 19:25	10° ≏ 22'57	
retrograde	16094 Oct 15 00:48	24°M49'58			16095 Sep 17 17:37	0° M	
evening set	16094 Oct 17 02:59	24°M32'18		evening max el	16095 Sep 21 05:28	4°M08'38	18°01'37
desc. node	16094 Oct 21 10:09	22°M19'43		retrograde	16095 Sep 27 21:02	7° ™ 34'45	
inferior conj	16094 Oct 24 13:56	19° M 49'11	-1°00'50	evening set	16095 Sep 30 06:37	7° M ₀07'41	
minimum elong	16094 Oct 24 11:41	19°M53'56	0°59'23	inferior conj	16095 Oct 07 00:49	2°M04'52	0°23'49
min. Earth dist.	16094 Oct 27 20:02	17°M04'45	0.58897 AU	minimum elong	16095 Oct 07 01:34	2°M03'03	0°23'53
morning rise	16094 Oct 31 16:57	14°M21'52		desc. node	16095 Oct 08 07:27	0° ™ 49'40	
direct	16094 Nov 07 03:46	12°M29'49			16095 Oct 09 03:50	30°Ŗ 죠	
morning max el	16094 Nov 21 10:44	20°M10'09	27°32'12	min. Earth dist.	16095 Oct 10 02:19	29° ≏ 06'37	0.61182 AU
	16094 Nov 29 21:49	0° ⊼		morning rise	16095 Oct 13 17:33	26° Ω 08'59	
asc. node	16094 Dec 15 23:14	26° ∡ *01'46		direct	16095 Oct 20 09:41	23° ≏ 53'59	
_	16094 Dec 18 00:21	0°₹			16095 Nov 01 16:33	0° ™	
morning set	16094 Dec 22 19:08	9° る 49'38		morning max el	16095 Nov 03 14:38	1°M48'33	27°58'39
					16095 Nov 24 06:01	0° ∡ 7	
superior conj	16094 Dec 29 17:01	25°₹01'53	1°35'50	asc. node	16095 Dec 02 20:15	15° х 41'12	
minimum elong	16094 Dec 29 16:07	24°る56'47	1°36'29	morning set	16095 Dec 06 21:36	23° ₹ 52'59	
max. Earth dist.	16094 Dec 29 08:40	24° ප 15'07	1.30989 AU	D. d. F.	16095 Dec 09 18:53	0°る	1 21270 444
	16094 Dec 31 22:16	0°≈		max. Earth dist.	16095 Dec 12 14:37	6° る 09'35	1.31270 AU
evening rise	16095 Jan 05 10:48	9°≈56'29 0°) €			16005 Dec 14 02:22	9° る 34'05	1°27'32
daga mada	16095 Jan 15 14:31	3° ∺ 06'35		superior conj	16095 Dec 14 03:32	9° る 34'03	1°27'32 1°28'06
desc. node evening max el	16095 Jan 17 09:17 16095 Feb 03 19:46	26° ₩ 34'18	26025122	minimum elong evening rise	16095 Dec 14 01:45 16095 Dec 20 20:12	9 8 2413 24° 8 22'30	1 28 00
evening max er	16095 Feb 07 22:02	20 χ3418 0° Υ	20 33 23	evening rise	16095 Dec 23 11:38	24 6 22 30 0° ≈	
retrograde	16095 Feb 17 19:52	3° Υ 45'10		desc. node	16096 Jan 04 06:06	0 ∞ 21°≈41'34	
evening set	16095 Feb 24 05:27	2° Υ 04'43		desc. Hode	16096 Jan 10 00:56	0°)	
evening set	16095 Feb 27 14:48	30° ₹		evening max el	16096 Jan 16 12:13	7° ∺ 17'10	25°15'36
min. Earth dist.	16095 Feb 28 09:19		0.58552 AU	retrograde	16096 Jan 30 08:48	14° ¥ 14'36	23 13 30
inferior conj	16095 Mar 03 13:31	27°) (03'03		evening set	16096 Feb 05 01:02	13° ¥ 01'46	
minimum elong	16095 Mar 03 20:57	26°) (48'59		min. Earth dist.	16096 Feb 10 00:44	10°) €18'57	0.56548 AU
morning rise	16095 Mar 11 15:55	22° H 31'17	-	inferior conj	16096 Feb 12 17:02	8°) €33'28	
direct	16095 Mar 13 15:01	22°) 17′50		minimum elong	16096 Feb 13 02:27	8° ¥ 18′00	4°39'09
asc. node	16095 Mar 13 20:53	22°) € 18'03		morning rise	16096 Feb 21 06:36	4°) €23'00	
morning max el	16095 Mar 21 15:33	26°) 15′44	18°22'47	direct	16096 Feb 23 08:13	4° ¥ 10'37	
	16095 Mar 24 21:16	$0^{\circ}\mathbf{\Upsilon}$		asc. node	16096 Feb 28 18:15	5°) 41′39	
morning set	16095 Apr 06 10:03	21° Y 24'59		morning max el	16096 Mar 03 17:02	8°){ 44'56	19°12'18
	16095 Apr 10 22:23	9° 8			16096 Mar 17 11:36	0° Y	
desc. node	16095 Apr 15 10:39	8° 8 24'07		morning set	16096 Mar 20 10:27	5° Y 47'38	
superior conj	16095 Apr 15 17:54	8° 8 57'18	-0°02'32	superior conj	16096 Mar 28 18:09	22° Y 12'39	0°29'43
minimum elong	16095 Apr 15 17:41	8° 8 56'17	0°02'55	minimum elong	16096 Mar 28 19:54	22° Y ′21'04	0°29'12
behind sun begin	16095 Apr 15 10:30	8° 8 23'24		desc. node	16096 Apr 01 07:23	28° Y 56'40	
behind sun end	16095 Apr 16 00:52	9° 8 29'07			16096 Apr 01 21:01	0° 8	
max. Earth dist.	16095 Apr 23 06:55	22° 8 17'46	1.40847 AU	max. Earth dist.	16096 Apr 04 12:58	4° 8 52'05	1.38561 AU
evening rise	16095 Apr 27 16:54	29° 8 42'01		evening rise	16096 Apr 08 06:49	11° 8 28'41	
	16095 Apr 27 21:17	0°Щ			16096 Apr 19 15:16	0°Щ	
	16095 May 17 17:06	0.20		_	16096 May 12 03:03	0°€	
evening max el	16095 May 31 23:21	17°931'13	23°20'56	evening max el	16096 May 13 12:54	1°526'16	24°41'35
asc. node	16095 Jun 09 18:43	23°930'36		retrograde	16096 May 25 05:41	8°516'09	
retrograde	16095 Jun 11 13:20	23°5544'10		asc. node	16096 May 26 15:46	8° © 07'39	

avanina aat	16006 May 20, 21,21	50050104		avanina aat	16007 May 14 10:57	20°T04'01	
evening set	16096 May 30 21:31	5°\$52'24 0°\$47'00	0.60500 ATT	evening set	16097 May 14 19:57	20° Ⅲ 04'01 15° Ⅲ 34'55	0.67400 ATT
min. Earth dist.	16096 Jun 04 08:51	0°994700 30°R∏	0.68508 AU	min. Earth dist.	16097 May 19 00:25	13° Д 34'55 13° Д 33'49	0.67490 AU 1°59'50
: <i>c</i> :	16096 Jun 04 22:59	30°KⅡ 29°Ⅱ22'14	2022100	inferior conj	16097 May 20 14:51		
inferior conj	16096 Jun 05 10:17	29°H22'14 29°H28'52		minimum elong	16097 May 20 12:40	13° Ⅱ 40'42 7° Ⅱ 46'07	1-38/30
minimum elong	16096 Jun 05 08:18	29° П 28'52 23° П 23'57	2°31'50	morning rise	16097 May 26 06:02	6°П42'03	
morning rise	16096 Jun 10 19:16			direct	16097 May 29 14:26		10046112
direct	16096 Jun 14 14:27	22° I 101'10	10020142	morning max el	16097 Jun 05 06:28	10° Ⅱ 16'51	18°46'13
morning max el	16096 Jun 21 22:31	26° Ⅱ 05'04	19°39'42	desc. node	16097 Jun 15 04:38	23° I I05'06	0.0
	16096 Jun 25 11:21	0°©		greatest brilliancy	16097 Jun 19 05:18	29° Ⅱ 09'07	-0.8m
desc. node	16096 Jun 28 07:32	3° © 37'31			16097 Jun 19 18:35	0°®	
greatest brilliancy	16096 Jul 04 21:23	12°952'46	-0.6m	morning set	16097 Jun 27 10:37	11°952'20	
	16096 Jul 16 06:50	0 \circ Ω			16097 Jul 09 02:11	0 \circ Ω	
morning set	16096 Jul 17 22:24	2° Ω 31'31		max. Earth dist.	16097 Jul 12 05:26	4° Ω 53'19	1.45870 AU
max. Earth dist.	16096 Jul 29 10:38	20° Ω 24'46	1.45038 AU			_	
		_		superior conj	16097 Jul 13 14:21	7° Ω 01'51	
superior conj	16096 Aug 03 00:14	27° Ω 40'17		minimum elong	16097 Jul 13 14:31	7° Ω 02'32	2°14'56
minimum elong	16096 Aug 03 06:50	28° Ω 06'43	2°04'16		16097 Jul 28 03:12	0° ™	
	16096 Aug 04 11:02	0° m ⁄		evening rise	16097 Jul 28 23:57	1° Mp 23'02	
evening rise	16096 Aug 16 20:48	20° Mp 26'24		asc. node	16097 Aug 09 12:46	19° m 38'08	
asc. node	16096 Aug 22 16:04	0° ჲ 09'15			16097 Aug 17 03:56	0∘ ⊽	
	16096 Aug 22 13:50	0∘ ত		evening max el	16097 Aug 18 10:11	1° ≏ 19'28	18°30'39
evening max el	16096 Sep 03 20:24	17° ≏ 36'09	18°07'18	retrograde	16097 Aug 24 21:21	4° ≏ 47'44	
retrograde	16096 Sep 10 05:13	20° ≏ 56'44		evening set	16097 Aug 28 00:41	3° ჲ 52'12	
evening set	16096 Sep 12 23:23	20° ≏ 16'46			16097 Sep 01 07:30	30°R, Mp	
inferior conj	16096 Sep 19 03:38	14° ≏ 56'29	1°28'59	inferior conj	16097 Sep 02 18:28	28° Mp 16'33	2°15'39
minimum elong	16096 Sep 19 05:45	14° ≙ 50'42	1°28'25	minimum elong	16097 Sep 02 20:45	28° m 09'37	2°14'57
min. Earth dist.	16096 Sep 21 18:32	12° ₽ 04'32	0.63419 AU	min. Earth dist.	16097 Sep 04 19:59	25° Mp 47'23	0.65411 AU
desc. node	16096 Sep 24 04:49	9° ≏ 42'06		morning rise	16097 Sep 08 15:35	21° m 52'40	
morning rise	16096 Sep 25 10:03	8° ≏ 42'12		desc. node	16097 Sep 11 02:12	20° m 14'42	
direct	16096 Oct 02 01:33	6° £ 11'39		direct	16097 Sep 15 01:32	19° m) 15'37	
morning max el	16096 Oct 15 23:24	14° ≙ 10'34	27°46'39	morning max el	16097 Sep 28 10:30	27° m 06'35	27°01'59
	16096 Oct 28 19:45	0°M.		<i>S</i>	16097 Oct 01 03:48	0∘ <u>⊽</u>	
	16096 Nov 15 20:13	0° ⊼			16097 Oct 22 11:32	0°M.	
asc. node	16096 Nov 18 17:12	5° х 35'43		morning set	16097 Nov 03 01:24	20°M42'59	
morning set	16096 Nov 19 16:36	7° ∡ ³32'45		asc. node	16097 Nov 05 14:03	25°M40'17	
max. Earth dist.	16096 Nov 24 14:50	17°×746'21	1.32122 AU	max. Earth dist.	16097 Nov 07 06:27	29°M03'24	1.33539 AU
max. Darm dist.	100701107 21 11.50	17 % 1021	1.52122110	max. Earth dist.	16097 Nov 07 17:34	0° ⊼	1.555557110
superior conj	16096 Nov 27 11:03	23° х 54'27	1°13'07		1007/1107 07 17:54	0 %	
minimum elong	16096 Nov 27 08:46	23° × ³ 127	1°13'32	superior conj	16097 Nov 11 13:26	7° √ 57'39	0°52'33
minimum ciong	16096 Nov 30 05:48	0°る	1 13 32	minimum elong	16097 Nov 11 11:10	7° × ⁷ 45'39	
evening rise	16096 Dec 04 06:57	8° ರ 50'13		evening rise	16097 Nov 18 17:16	23°×715'33	0 32 30
evening rise	16096 Dec 15 01:29	0°≈		evening rise	16097 Nov 21 22:48	0°る	
desc. node	16096 Dec 21 02:59	0 ∞ 9°≈22'49		desc. node	16097 Dec 07 23:57	25° る 51'40	
evening max el	16096 Dec 27 22:27	17°≈21'33	23°35'40	evening max el	16097 Dec 07 23:37 16097 Dec 09 10:04	23 3 31 40 27° 3 19'40	21052110
retrograde	16097 Jan 10 07:59	23°≈59'31	23 33 40	evening max cr	16097 Dec 12 12:29	27 ⊙ 1940	21 33 19
•		23°≈14'11		ratra ara da		0 ∞ 3°≈27'33	
evening set min. Earth dist.	16097 Jan 14 21:53 16097 Jan 21 09:37	23 ≈14 11 20°≈08'24	0.55081 AU	retrograde evening set	16097 Dec 21 19:46 16097 Dec 25 02:56	3°≈03'13	
inferior conj	16097 Jan 22 23:59	20 ≈08 24 19°≈12'15		evening set	16097 Dec 23 02:30 16098 Jan 01 06:48	30°Rる	
minimum elong	16097 Jan 23 06:06	19 ≈12 13 19°≈03'17		inferior conj	16098 Jan 02 16:53	30 KO 29°る12'41	5050142
•			3 44 39				
morning rise	16097 Jan 31 15:49	15°≈18'30		minimum elong	16098 Jan 02 14:04	29°る16'37 29°る15'24	
direct	16097 Feb 03 06:17	15°≈01'53	20024157	min. Earth dist.	16098 Jan 02 14:57		0.54413 AU
morning max el	16097 Feb 14 04:58	20°≈19'46	20°24'57	morning rise	16098 Jan 11 01:57	25°₹25'08	
asc. node	16097 Feb 14 15:37	20°≈46'04		direct	16098 Jan 14 15:38	24°る57'07	
	16097 Feb 21 18:34	0°){			16098 Jan 26 00:32	0° ≈	21050145
morning set	16097 Mar 04 17:05	20°) €24'11		morning max el	16098 Jan 27 01:46	0°≈57'54	21°59'45
	16097 Mar 09 08:37	$0^{\circ}\Upsilon$		asc. node	16098 Feb 01 12:56	7°≈14'51	
		500001100			16098 Feb 14 16:18	0°) (° -712 €	
superior conj	16097 Mar 12 07:24	6°Υ01'32	0°56'00	morning set	16098 Feb 17 03:23	5°) €07'26	
minimum elong	16097 Mar 12 09:54	6°Υ14'12	0°55'36		10000	2001/4	1015:
max. Earth dist.	16097 Mar 17 20:07	16° Y 54'52	1.36324 AU	superior conj	16098 Feb 24 06:03	20°) (14′22	1°15'53
desc. node	16097 Mar 19 04:03	19° Y 26′16		minimum elong	16098 Feb 24 08:26	20°) €26'54	1°15'48
evening rise	16097 Mar 21 15:32	24° Y ′01'48		max. Earth dist.	16098 Feb 28 08:55	28°) 45'30	1.34344 AU
	16097 Mar 24 23:41	0°8			16098 Feb 28 23:41	0°Υ	
	16097 Apr 13 06:39	$\Pi^{\circ 0}$		evening rise	16098 Mar 04 15:34	7° Y 11'49	
evening max el	16097 Apr 26 02:34	15° Ⅱ 19'33	25°54'47	desc. node	16098 Mar 06 00:41	9° Y 49'12	
retrograde	16097 May 08 17:23	22° ∏ 34'44			16098 Mar 17 15:32	0°8	
asc. node	16097 May 13 12:54	21° ∏ 02'05		evening max el	16098 Apr 08 16:25	29° 8 03'09	26°52'51

	16000 Ame 00 16:21	0° I I		avanina may al	16099 Mar 22 05:23	12° 8 26'24	27020125
	16098 Apr 09 16:21	0° Д 6° Д 31'48		evening max el		12° 8 58'41	21-28-25
retrograde	16098 Apr 21 23:20	6°Д31'48 3°Д59'31		retrograde	16099 Apr 04 22:51	19° 8 38'41	
evening set	16098 Apr 28 11:05	2° П 13'49		evening set	16099 Apr 11 16:46	_	0.64204.411
asc. node	16098 Apr 30 10:08			min. Earth dist.	16099 Apr 15 11:59	14° 8 07'46	0.64204 AU
i. Ed-di-4	16098 May 02 11:48	30°R 8	0.66020 ATT	asc. node	16099 Apr 17 07:24	12° 8 13'36	0°15'45
min. Earth dist.	16098 May 02 10:06	0° П 04'51 27° В 35'10	0.66038 AU 1°14'27	inferior conj	16099 Apr 18 03:30	11° 8 20'00	0°15'45 0°15'08
inferior conj	16098 May 04 13:28	27° 8 40'18	1°14'27' 1°13'15	minimum elong	16099 Apr 18 03:03 16099 Apr 18 03:03	11° 8 21'12	0°15'08
minimum elong	16098 May 04 11:43	21° 8 59'46	1 13 13	transit middle transit begin		11° 8 23'52	0 13 08
morning rise direct	16098 May 10 13:41 16098 May 13 12:09	21° 8 12'29		transit end	16099 Apr 18 02:02 16099 Apr 18 04:03	11° 8 18'32	
morning max el	•	24° 8 31'06	18°09'22		16099 Apr 18 04.03	5° 8 59'10	
morning max er	16098 May 19 20:11	0° Ⅱ	18 09 22	morning rise		5° 8 25'51	
desc. node	16098 May 24 11:28 16098 Jun 02 01:38	0 П 12°П56'59		direct morning max el	16099 Apr 27 05:04	8° 8 40'43	17°49'38
	16098 Jun 02 01:38 16098 Jun 07 22:28	22° I 22'13		morning max er	16099 May 03 13:18	8 3 4043 0° Ⅱ	1 / 49 38
morning set	16098 Jun 12 16:37	0°95		desc. node	16099 May 18 02:11 16099 May 19 22:32	о п 3°П06'31	
	10098 Juli 12 10.57	0 29		morning set	16099 May 19 22.32 16099 May 20 13:33	4° ∏ 09'42	
superior conj	16098 Jun 22 23:51	16° © 17'10	2004:21	morning set	10099 May 20 13.33	4 Д0942	
minimum elong	16098 Jun 22 16:58	15°950'13	2°04'43	superior conj	16099 Jun 02 21:36	26° Ⅱ 10'15	1027126
max. Earth dist.	16098 Jun 25 02:14	19° © 34'01	1.45952 AU	minimum elong	16099 Jun 02 13:08	25° I I36'10	
max. Earm dist.	16098 Jul 23 02:14 16098 Jul 01 19:12	19 3 3401	1.43932 AU	minimum erong	16099 Jun 05 07:03	0°95	1 3/1/
evening rise	16098 Jul 09 02:54	11° Ω 20'29		max. Earth dist.	16099 Jun 07 21:58	4°909'12	1.45289 AU
greatest brilliancy	16098 Jul 20 17:02	29° Ω 06'30	-0.7m	evening rise	16099 Jun 18 14:49	20°945'26	1.43289 AU
greatest billiancy	16098 Jul 20 17:02 16098 Jul 21 07:20	0°m	-0.7111	evening rise	16099 Jun 24 17:00	20 3 43 20	
asc. node	16098 Jul 27 09:30	8° Mp 42'21		asc. node	16099 Jul 14 06:17	27° Ω 13'17	
evening max el	16098 Aug 01 20:02	15° Mp 10'31	19°10'56	evening max el	16099 Jul 14 00:17	29° Ω 04'16	20°06'51
retrograde	16098 Aug 01 20:02	18° m) 59'41	19 10 30	evening max er	16099 Jul 16 00:14 16099 Jul 16 23:34	0° m	20 00 31
evening set	16098 Aug 12 07:10	17° Mp 46'58		retrograde	16099 Jul 23 17:04	3°M) 26'15	
inferior conj	16098 Aug 12 07:10	17 my 40 38 11° my 57'36	2°46'18	evening set	16099 Jul 23 17:04 16099 Jul 27 16:20	1° m) 55'46	
minimum elong	16098 Aug 17 17:31 16098 Aug 17 19:39	11° m) 51'47	2°45'40	evening set	16099 Jul 27 16.20 16099 Jul 29 17:31	1 11/35 40 30°RΩ	
min. Earth dist.	•	10° Mp 02'48	0.67033 AU	inforior aoni		25°Ω54'14	3°03'20
	16098 Aug 19 05:17		0.07033 AU	inferior conj	16099 Aug 01 23:01 16099 Aug 01 23:58	$25^{\circ}\Omega51'00$	3°02'46
morning rise desc. node	16098 Aug 23 07:26 16098 Aug 28 23:35	5° Mp 30'53 2° Mp 56'18		minimum elong min. Earth dist.	16099 Aug 01 23:38 16099 Aug 02 20:37	$23^{\circ} \Omega 40'47$	0.68216 AU
direct	16098 Aug 28 23:33 16098 Aug 29 08:24	2° m) 55'46		morning rise	16099 Aug 02 20.37 16099 Aug 07 07:14	19° Ω 29'22	0.08210 AU
morning max el	16098 Sep 10 21:58	10° m) 24'51	25°53'02	direct	16099 Aug 17 07:14 16099 Aug 12 21:10	$19^{\circ} \Omega 29^{\circ} 22$	
morning max er	16098 Sep 10 21:38 16098 Sep 26 11:55	10 11 0 24 31	23 33 02	desc. node	16099 Aug 12 21:10 16099 Aug 15 20:57	$17^{\circ} \Omega 38'38$	
	16098 Oct 15 01:27	0° ™		morning max el	16099 Aug 13 20:37	23°Ω56'00	24°29'12
morning set	16098 Oct 15 01.27 16098 Oct 16 20:34	3°ML15'51		morning max er	16099 Aug 29 19:08	0° m)	24 29 12
morning set max. Earth dist.	16098 Oct 10 20.34 16098 Oct 20 12:36	10°ML08'31	1.35458 AU		16099 Aug 29 19:08 16099 Sep 19 21:09	0∘ ت الأا	
asc. node	16098 Oct 20 12:30 16098 Oct 23 10:50	15°ML50'14	1.55456 AU	morning set	16099 Sep 19 21:09 16099 Sep 28 22:06	0 = 15° £ 02'26	
asc. node	10098 Oct 23 10.30	13 11630 14		max. Earth dist.	16099 Oct 02 12:11	21° 2 23'34	1.37738 AU
superior conj	16098 Oct 26 07:58	21°MJ36'33	0°25'58	max. Earm dist.	16099 Oct 02 12:11 16099 Oct 07 04:03	0°M	1.57756 AU
minimum elong	16098 Oct 26 06:31	21°M29'11	0°26'14		10077 Oct 07 04.03	O IIG	
minimum clong	16098 Oct 30 09:52	21 11 6 2911	0 20 14	superior conj	16099 Oct 09 15:24	4°M43'32	-0°06'03
evening rise	16098 Nov 03 01:07	0 ^ 7° √ 33'13		minimum elong	16099 Oct 09 15:47	4°M45'21	0°05'38
evening rise	16098 Nov 15 03:38	ッろ 0°る		behind sun begin	16099 Oct 09 13:47 16099 Oct 09 09:24	4°M14'32	0 03 38
evening max el	16098 Nov 21 08:17	7°る47'30	20°24'24	behind sun end	16099 Oct 09 05:24 16099 Oct 09 22:10	5°M16'14	
desc. node	16098 Nov 24 20:59	7 34730 10°る44'48	20 24 24	asc. node	16099 Oct 10 07:34	6°M01'48	
retrograde	16098 Dec 02 06:33	13° る 13'43		evening rise	16099 Oct 18 04:10	21°M37'19	
evening set	16098 Dec 04 13:42	13°る00'24		evening rise	16099 Oct 22 10:31	0° √	
inferior conj	16098 Dec 13 09:08	9°₹05'35	-5°12'18	evening max el	16099 Nov 03 21:06	19° ∡ 04'28	19°16'38
minimum elong	16098 Dec 12 23:39	9° る 19'30	5°09'25	desc. node	16099 Nov 11 18:07	23° x 38'24	17 10 30
min. Earth dist.	16098 Dec 14 20:32	8° る 13'39	0.54669 AU	retrograde	16099 Nov 13 04:35	23° × ⁷ 44'51	
morning rise	16098 Dec 21 09:10	5°る05'34	0.5400) AC	evening set	16099 Nov 15 02:10	23° × ⁷ 34'01	
direct	16098 Dec 26 00:26	3 3 0334 4° 3 19'16		inferior conj	16099 Nov 23 14:43	19° x 24'16	-3°41'19
morning max el	16099 Jan 08 12:06	10°る56'53	23°48'38	minimum elong	16099 Nov 23 05:49	19° × ² 39'02	
asc. node	16099 Jan 19 10:12	10 3 3033 24° 3 49'35	25 10 50	min. Earth dist.	16099 Nov 26 05:59	17° х 3902	0.55819 AU
use. Houc	16099 Jan 22 13:01	24 O 49 33		morning rise	16099 Dec 01 07:07	17 x 39 23	J.JJ017 AU
morning set	16099 Feb 01 15:18	0 ~ 19° ≈ 51'28		direct	16099 Dec 06 20:13	13° × ⁷ 43'30	
morning set	16099 Feb 06 07:15	0° \		morning max el	16099 Dec 20 21:19	20° x 50'49	25°34'48
	10077160 00 07.13	υ Λ		morning max ci	16099 Dec 28 18:44	20 メ ・3049	23 34 40
superior coni	16099 Feb 08 11:12	4°) 43′12	1°29'23	asc. node	16100 Jan 06 07:24	0 る 13° る 13'35	
superior conj minimum elong	16099 Feb 08 11:12 16099 Feb 08 12:54	4° X 43'12 4° X 52'28	1°29'23 1°29'38	asc. nout	16100 Jan 06 07:24 16100 Jan 15 00:08	0°≈	
max. Earth dist.	16099 Feb 08 12:54 16099 Feb 11 05:11	4° X 32′28 10° X 38′09	1.32759 AU	morning set	16100 Jan 13 00:08 16100 Jan 17 02:53	0°≈ 4°≈29'55	
evening rise	16099 Feb 11 03:11 16099 Feb 16 03:32	20° ¥ 50′22	1.34137 AU	morning set	10100 Jail 1/ 02.33	+ ~ ~∠y >>	
desc. node	16099 Feb 16 03:32 16099 Feb 20 21:19	20° Υ 30′22 0° Υ 01′15		superior conj	16100 Jan 23 20:23	19° ≈ 20'07	1°36'40
acsc. Hour		0° Υ 0113			16100 Jan 23 20:23 16100 Jan 23 21:07		
	16099 Feb 20 21:03 16099 Mar 11 13:41	0。兄		minimum elong max. Earth dist.	16100 Jan 23 21:07 16100 Jan 25 08:02	19°≈24'12 22°≈37'14	1°37'11 1.31655 AU
	10077 WIAI 11 13.41	υ Ο		max. Earui üist.	10100 Jaii 23 08.02	∠∠ ≈ 3/14	1.51033 AU

	16100 Jan 28 17:32	0° ∀		minimum elong	16101 Jan 08 07:16	3° ≈ 57'44	1°38'31
evening rise	16100 Jan 31 00:26	4°) 49′15		max. Earth dist.	16101 Jan 08 14:58	4°≈40'50	1.31080 AU
desc. node	16100 Feb 07 17:58	19° ¥ 56′20		evening rise	16101 Jan 15 03:53	19° ≈ 03'01	
	16100 Feb 13 13:01	0 ° Υ		-	16101 Jan 20 12:29	0°) €	
evening max el	16100 Mar 04 15:37	25° Y 16'25	27°34'52	desc. node	16101 Jan 25 14:42	9°) 27′55	
	16100 Mar 10 12:38	0° 8			16101 Feb 08 04:49	0° Y	
retrograde	16100 Mar 18 14:53	2° 8 44'24		evening max el	16101 Feb 14 20:48	7° Ƴ 22'11	27°07'14
evening set	16100 Mar 25 10:24	0° 8 29'56		retrograde	16101 Feb 28 21:47	14° Y 39'56	
	16100 Mar 26 03:55	30° ₹ Υ		evening set	16101 Mar 07 12:55	12° Y 45'43	
min. Earth dist.	16100 Mar 29 04:37	27° Y '31'15	0.62083 AU	min. Earth dist.	16101 Mar 11 11:10	10° Ƴ 03'19	0.59829 AU
inferior conj	16100 Apr 01 05:42	24° Y ′39'30	-0°56'56	inferior conj	16101 Mar 14 16:29	7° Ƴ 24'27	-2°21'59
minimum elong	16100 Apr 01 07:40	24° Y ′34'52	0°56'22	minimum elong	16101 Mar 14 21:51	7° Υ 13'22	2°19'54
asc. node	16100 Apr 04 04:42	22° Y ′01'43		morning rise	16101 Mar 22 10:20	2° Y 40'03	
morning rise	16100 Apr 08 08:03	19° Y 35'36		asc. node	16101 Mar 22 02:03	2° Y 45'48	
direct	16100 Apr 10 13:53	19° Ƴ 12'54		direct	16101 Mar 24 10:46	2° Y '24'17	
morning max el	16100 Apr 17 06:45	22° Y 35'52	17°47'31	morning max el	16101 Mar 31 21:07	6° Y 06'31	18°04'03
C	16100 Apr 23 02:14	0°8		morning set	16101 Apr 16 10:59	0° 8 40'04	
morning set	16100 May 03 03:40	17° 8 01'20		. 8	16101 Apr 16 02:20	0°8	
desc. node	16100 May 06 19:21	23° 8 27'42		desc. node	16101 Apr 23 16:07	13° 8 56'23	
dese. node	16100 May 10 13:35	0°II		dese. node	1010111p1 25 10.07	15 00025	
	10100 1144 10 15.50	~ ~		superior conj	16101 Apr 26 12:11	19° 8 00'57	-0°23'16
superior conj	16100 May 14 17:17	7° Ⅱ 04'12	-1°01'17	minimum elong	16101 Apr 26 10:14	18° 8 52'18	
minimum elong	16100 May 14 11:38	6° Ⅱ 40′26		8	16101 May 02 20:45	0°П	
max. Earth dist.	16100 May 21 14:14	18° Ⅲ 22'43	1.43954 AU	max. Earth dist.	16101 May 04 02:11	2° I 103'19	1.42091 AU
man. Barar alou	16100 May 28 22:45	0.8e	1.10701110	evening rise	16101 May 09 08:56	10° ∏ 41'11	12071110
evening rise	16100 May 29 04:07	0°920'46		evening rise	16101 May 21 23:13	0.ತ	
e vennig rise	16100 Jun 18 07:55	0°Ω		evening max el	16101 Jun 11 15:39	26° © 52'31	22°34'13
evening max el	16100 Jun 28 22:23	12° Ω 58'14	21°16'01	evening max er	16101 Jun 15 04:21	0°Ω	22 3413
asc. node	16100 Jul 01 03:08	14° Ω 59'29	21 1001	asc. node	16101 Jun 18 00:05	1° Ω 46'13	
retrograde	16100 Jul 07 15:59	$18^{\circ}\Omega 01'42$		retrograde	16101 Jun 21 13:14	2°Ω40'23	
evening set	16100 Jul 12 02:10	16° Ω 13'49		evening set	16101 Jun 26 10:56	0°Ω36'26	
inferior conj	16100 Jul 17 07:38	10° Ω 01'35	3°08'33	evening set	16101 Jun 27 02:53	30°RS	
·	16100 Jul 17 07:37	10° Ω 01'37	3°07'57	inforior aoni	16101 Jul 01 17:35	24°9915'16	3°03'00
minimum elong		9° Ω 33'03	0.68924 AU	inferior conj			
min. Earth dist.	16100 Jul 17 15:49 16100 Jul 22 12:49		0.08924 AU	minimum elong	16101 Jul 01 16:40 16101 Jul 01 12:40	24°©18'29	3°02'13
morning rise		3° Ω 41'56		min. Earth dist.		24°532'24	0.69149 AU
direct	16100 Jul 27 14:50	1° Ω 30'07		morning rise	16101 Jul 06 22:14	18°502'56	
desc. node	16100 Aug 02 18:16	3° Ω 58'38	22000102	direct	16101 Jul 11 12:03	16°509'04	21022150
morning max el	16100 Aug 06 20:34	7° Ω 34'54	23°00'03	morning max el	16101 Jul 20 11:13	21°521'42	21°33'59
	16100 Aug 24 08:29	0° Mp		desc. node	16101 Jul 20 15:34	21° © 32'35	
morning set	16100 Sep 10 01:54	25° m 53'31			16101 Jul 27 20:13	Ω°	
	16100 Sep 12 13:03	0∘ ʊ			16101 Aug 17 13:54	0° my	
max. Earth dist.	16100 Sep 14 11:14	3° <u>Ω</u> 15'57	1.40147 AU	morning set	16101 Aug 21 05:44	5° m 43'17	1 10106 177
	16100 C 22 07.49	179 0 0015 (0041154	max. Earth dist.	16101 Aug 27 15:28	16° Mp 02'04	1.42406 AU
superior conj	16100 Sep 22 07:48	17° ♀ 09'56 17° ♀ 24'41		aumorior coni	16101 Can 04 04:40	28° m 44'52	1010122
minimum elong	16100 Sep 22 11:02		0 41 13	superior conj	16101 Sep 04 04:40	~	
asc. node	16100 Sep 27 04:15	26° Ω 11'41		minimum elong	16101 Sep 04 11:05	29° m 12'35	1°1/46
	16100 Sep 29 04:20	0°M		1	16101 Sep 04 22:02	0∘ ⊽	
evening rise	16100 Oct 01 23:28	5°M20'46		asc. node	16101 Sep 14 00:55	16° £ 15'33	
	16100 Oct 16 20:00	0° ₹	10021115	evening rise	16101 Sep 15 07:06	18° Ω 32'53	
evening max el	16100 Oct 17 22:40	1°×711'00	18°31'15		16101 Sep 21 16:20	0°M 120 m 5€12€	10007140
retrograde	16100 Oct 25 21:05	5° 🖈 12'19		evening max el	16101 Oct 01 08:37	13°M56'36	18°06'48
evening set	16100 Oct 27 20:06	4° ₹ 58'22		retrograde	16101 Oct 08 08:14	17°M31'29	
desc. node	16100 Oct 29 15:20	4° ∡ ¹22'34		evening set	16101 Oct 10 13:31	17°M10'10	
inferior conj	16100 Nov 04 17:13	0° ∡ 728'00		desc. node	16101 Oct 16 12:38	13°M21'31	0000107
minimum elong	16100 Nov 04 12:34	0° ∡ 737'02	1°54'55	inferior conj	16101 Oct 17 17:05	12°M18'24	
	16100 Nov 05 07:37	30°₹M	0.55555	minimum elong	16101 Oct 17 16:19	12°M20'08	0°21'52
min. Earth dist.	16100 Nov 07 21:53	28°M00'23	0.57653 AU	min. Earth dist.	16101 Oct 20 22:14	9° ™ 25'45	0.59864 AU
morning rise	16100 Nov 12 01:38	25°M20'57		morning rise	16101 Oct 24 15:52	6°M38'12	
direct	16100 Nov 18 06:42	23°M43'32		direct	16101 Oct 31 05:57	4°M35'36	
	16100 Dec 01 05:09	0° ∡ 7		morning max el	16101 Nov 14 12:09	12°M22'10	27°48'15
morning max el	16100 Dec 02 12:39	1° ∡ 13'31	26°59'02		16101 Nov 28 11:03	0° ∡ ″	
	16100 Dec 22 23:14	0°₹		asc. node	16101 Dec 11 01:35	21° ∡ ′41′37	
asc. node	16100 Dec 24 04:32	2° る 14'23			16101 Dec 15 05:17	0°ठ	
morning set	16101 Jan 01 12:26	18° る 58'32		morning set	16101 Dec 16 18:03	3° ප 12'00	
	16101 Jan 06 12:47	0° ≈		max. Earth dist.	16101 Dec 22 22:26	16° පි 41'18	1.31047 AU
	16101 7 00 07 7	20 50:5	1007:50		16101 8 22 12 5	100 - 22	1022102
superior conj	16101 Jan 08 07:35	3° ≈ 59'32	1~3/52	superior conj	16101 Dec 23 18:52	18° る 35'25	1~33'03

minimum elong 16101 Dec 23 17:34 18°₹28'07 1°33'41

16101 Dec 28 21:52 0°≈

evening rise 16101 Dec 30 11:39 $3^{\circ} \approx 25'43$ desc. node 16102 Jan 12 11:30 $28^{\circ} \approx 26'40$

16102 Jan 13 10:17 0°**⊁**